LNT – Panikmache im wissenschaftlichen Gewand Atomangst – der lange Schatten eines Diktators

geschrieben von Wolfgang Müller | 26. September 2013

Zu den entscheidenden Befürchtungen, welche die Atomkraftgegner in der Bevölkerung ständig schüren, gehören die Angst vor Krebs sowie vor Erbschäden beim Nachwuchs. Das liegt auch daran, dass Infektionskrankheiten heute ihren Schrecken weitgehend verloren haben. Sie sind einerseits zumeist recht gut heilbar und man kann Ansteckungsgefahren durch Hygiene, gesunde Lebensweise und die Vermeidung bestimmter Risiken deutlich verringern. Für Krebs trifft dies jedoch nur eingeschränkt zu. Krebs ist ein heimtückisches und oft tödliches Leiden, das meist ohne Vorwarnung zuschlägt und oft nicht oder nur mit begrenztem Erfolg behandelbar ist. Indem die Gegner der Kernkraft im Bewusstsein der Bevölkerung Radioaktivität zur wesentlichen Ursache von Krebsgefahren hochstilisieren, haben sie leichtes Spiel damit, die auf diese Art ausgelösten Urängste für ihre Zwecke zu instrumentalisieren. Dazu trägt auch bei, dass die meisten Menschen die entsprechenden Zusammenhänge nur unvollständig kennen. Zumeist ist lediglich bekannt, dass Krebs durch eine genetische Entartung körpereigenen Gewebes entsteht, die ihre Ursache in einer Schädigung des Erbguts einer vorher gesunden Körperzelle hat. Da radioaktive Strahlen solche Schäden herbeiführen können und – rein vom Prinzip her – schon ein einziges Strahlungsquant ausreichen kann, um Krebs auszulösen, glauben die meisten Zeitgenossen, dass man Krebsrisiken am besten dadurch minimiert, indem man das Auftreten von radioaktiver Strahlung im eigenen Umfeld möglichst auf null reduziert. Also, so die scheinbar logische Überlegung, braucht man nur alles, was Kernkraft, Endlager etc. angeht, weit genug vom eigenen Umfeld zu verbannen, um beruhigt und sicher leben zu können.



Bild 1. Kernkraftwerke werden von den meisten Menschen als Bedrohung ihrer Gesundheit empfunden (Symbolbild)

Eine der größten radioaktiven Gefahren sind wir selbst

Dabei ist dies ein Trugschluss, denn eine der gefährlichsten Strahlungsquellen, denen die Mehrheit von uns überhaupt ausgesetzt ist, ist unser eigener Körper. Niemand kann uns vor den rund 7.000 bis über 9000 Becquerel schützen, mit denen der durchschnittliche Europäer belastet ist [BECQ]. Anders ausgedrückt

stecken in unserem eigenen Körper so viele radioaktive Elemente, dass in jeder Sekunde bis zu 9.000 Atomkerne zerfallen und dabei radioaktive Strahlung freisetzen. Noch dazu hat gerade diese Strahlung das – aus medizinischer Sicht – höchste Gefährdungspotenzial, weil sie direkt innerhalb unserer Körperzellen und ihres genetischen Materials wirkt. Hier verursacht selbst die außerhalb des Körpers eher harmlosen Alpha- und Beta-Strahlung unweigerlich massive Schäden. Dieses ständige Bombardement unserer Zellen lässt sich weder verhindern noch wesentlich verringern, weil wir die entsprechenden Elemente über unsere Nahrung zwangsläufig Tag für Tag aufnehmen [APFE]. Selbst Babys erhalten bereits mit der Muttermilch sowie über Babynahrung ihre tägliche Dosis Radioaktivität [BAB1, BAB2].

Unsere ganze Umgebung, Erde, Steine und sogar die Luft strahlen und versorgen uns ständig mit radioaktiven Elementen, die unser Körper als natürliche Bestandteile des Nahrungskreislaufs einstuft und in den Zellen einbaut. Das reicht vom Kalium 40K über das radioaktive Kohlenstoffisotop 14C, das wir mit jedem Bissen Nahrung zu uns nehmen, über Uran und Thorium bis zum Edelgas Radon, das vom Erdboden aus ständig in unsere Gebäude einsickert und eingeatmet wird. In manchen Regionen Deutschlands liegt die natürliche Radioaktivität der Umgebung sogar viermal höher als der zulässige Grenzwert für Mitarbeiter in kerntechnischen Anlagen [HUET]. In anderen Weltgegenden ist die Belastung sogar noch viel höher, so in der iranischen Stadt Ramsar, wo bis zu 260 mSv/ Jahr erreicht werden. Weitere Strahlungsquellen

sind das Hautkrebs auslösende UV-Licht der Sonne sowie kosmische Strahlung aus dem Weltall.

Kampferprobtes Erbgut

Allerdings ist die Vorstellung, dass die Chromosomen in unseren Zellen weitgehend vor Beschädigungen geschützt seien

und höchstens ab und zu mal durch einen verirrten Strahlungsimpuls beschädigt würden, ebenso verbreitet wie völlig falsch. Unser Erbgut – die DNA-Doppelspiralen, welche die gesamten Baupläne

unseres Körpers enthalten – liegt nicht etwa gut geschützt in einer Art Tresor, sondern muss einen ununterbrochenen Dauerkrieg um seine Erhaltung führen. In unseren Zellen werden die DNA-Stränge

ständig chemisch aufgespalten, in Teilbereichen kopiert und wieder zusammengefügt, da sie die Baupläne und Betriebsanleitungen für nahezu alle in der Zelle ablaufenden Vorgänge

enthalten. Was da abläuft, gleicht einer Hochleistungs-Chemiefabrik in aggressiver Umgebung. Auch die Schädigungsrate durch die natürliche Hintergrundstrahlung kann man heute

recht genau bestimmen. Sie liegt bei ungefähr 0,005 DNA-Fehlern pro Zelle und Tag. Andersherum ausgedrückt wird jede einzelne Zelle unseres Körpers alle 200 Tage durch die natürliche

Radioaktivität nachhaltig geschädigt. Dabei ist Radioaktivität nur ein Randaspekt verglichen mit anderen, viel größeren Gefahren, denen die Chromosomen ständig ausgesetzt sind. Eine

wichtige Rolle spielen kleinere oder größere Fehlfunktionen in den unglaublich komplexen chemischen Reaktionen, die in der Zelle ständig ablaufen. Hinzu kommen Attacken durch Viren,

Bakterien, Gifte oder auch Temperatureinflüsse. Die Zahl der Chromosomenfehler, die hierbei täglich auftreten, geht in die Milliarden – in jeder einzelnen Zelle, wohlgemerkt [HUMP]. Wenn also

schon ein einzelner Fehler unausweichlich Krebs auslösen würde, wäre längst jedes Leben ausgestorben. Von Anbeginn seiner Entwicklung an musste sich das Leben diesen Bedingungen

stellen und ist deshalb durchaus kampferprobt. Lebendes Gewebe verfügt hierfür über ausgeklügelte Anpassungs- sowie Reparaturmechanismen. Selbst große Schäden wie DNA-Doppelbrüche sind nur in einem von

500 Fällen nicht reparierbar, und auch für solche Vorkommnisse hält die Natur Notbremsen wie das Eiweiß p53 bereit. Seine primäre Aufgabe ist die Hilfe bei der Reparatur defekter Zellen. Ist der

Schaden jedoch zu groß, schickt p53 die betroffene Zelle ohne Umschweife in den Tod [ZELL]. Über 99 % der irreparabel mutierten Zellen sterben daher durch Selbstvernichtung

ab und werden durch gesunde Nachbarzellen ersetzt. Vor diesem Hintergrund ist es leicht einzusehen, warum die Frage, ob ein einzelnes Strahlungsquant aus einer externen Quelle in einer

Zelle einen Treffer erzielt hat oder nicht, für die realistische Beurteilung von Krebsgefahren kaum von Bedeutung ist.

Das Zusammenspiel von Schädigung durch radioaktive

Strahlung und den eingebauten Selbstheilungskräften der Biologie erklärt auch, warum eine einmalige Exposition mit einer extremen Überdosis zum Tode führt: Die in kurzer Zeit

auftretenden Schäden sind so massiv, dass die Selbstheilungskräfte überfordert sind und das Gewebe abstirbt. Darunter gibt es einen Dosisbereich, in dem der Organismus zwar überlebt, der

Umfang schwerer Chromosomenschäden jedoch immer noch so hoch liegt, dass auch hier die Selbstheilung nur teilweise funktioniert. Deshalb erkrankt ein bestimmter Prozentsatz dieser Überlebenden

später an Krebs. Diese Zusammenhänge sind gut untersucht und statistisch gesichert.

LNT – die

Angst vor kleinsten Strahlungsmengen

Mit

diesem Hintergrundwissen kann man die sogenannt

e LNT-Theorie in gewisser Weise mit Gedankenm

odellen vergleichen, wie sie beispielsweise in

der Homöopathie Anwendung finden. Ausgangsp

unkt sind in beiden Fällen nachgewiesene Zusammenh

änge bei hohen Dosierungen. Beide Lehren gehen von

der Annahme aus, dass diese Zusammenhänge

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gelten würden. Die Homöopathie betreibt

die als „Potenzierung“ bezeichnete Verdünnun

g der Wirkstoffe so extrem, dass die Ausgangss

toffe im Heilmittel nicht mehr nachweisbar sind.

Bei der LNT-Methode (LNT=Linear No Threshold

) wird behauptet, dass die von hohen Strahlung

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dann gelten, wenn die Menge der radioaktiven

Substanz so gering ist, dass ihre Strahlungsanteile

im „Hintergrundrauschen“ der natürlichen

Strahlung völlig untergehen.

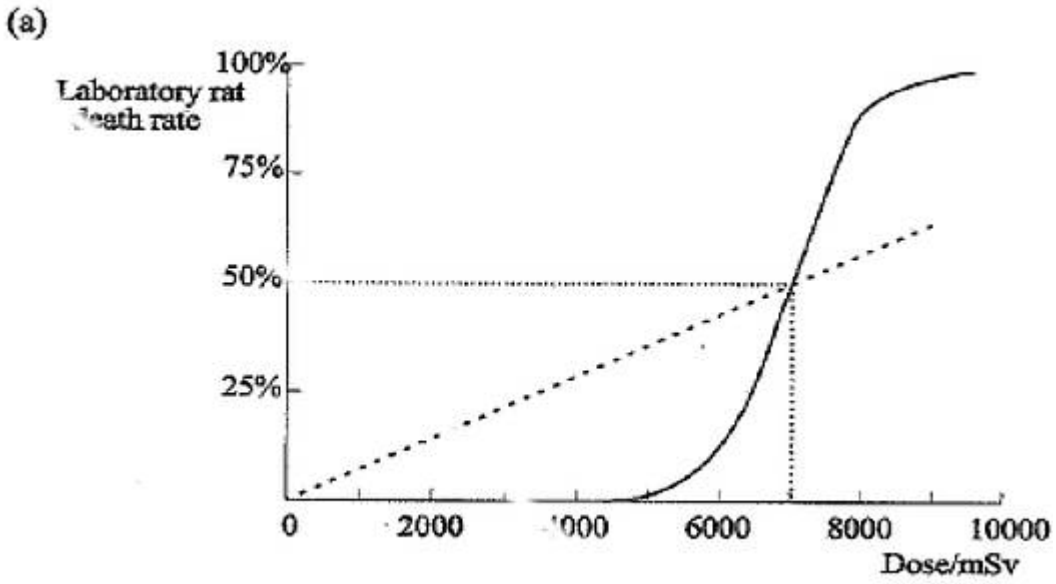


Bild 2. Experimente an

Laborratten zeigten, dass die Sterberaten bei

Bestrahlung mit geringeren Dosen wesentlich

schneller zurückgingen als nach der LNT-Hypothese

(gestrichelte Linie) zu erwarten [HUET]

Die Nuklearmedizin hat jedoch bereits in

zahlreichen Untersuchungen bewiesen, dass

diese Annahme nicht stimmt. Wenn der Körper in

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radioaktiver Bestrahlung ausgesetzt ist,

dann kann die Natur damit umgehen. Eingehende

Untersuchungen zeigen sogar, dass solche

geringen Bestrahlungen eine Art Abhärtungseffekt

bewirken, der Hormesis genannt wird [HORM].

Dies ist die Erklärung dafür, warum Menschen

mit wiederkehrenden geringen Strahlungsexpositi

onen – z.B. Mitarbeiter kerntechnischer

Anlagen – im statistischen Mittel sogar

weniger häufig an Krebs erkranken als Vergleich

sgruppen.

Somit steht die LNT-Methode

klar im Widerspruch zu den Erkenntnissen der modernen

Nuklearmedizin. Diese Zusammenhänge wurden

durch umfassende Studien bestätigt [GEGN, LNT1,

LNT2]. Die LNT-Anhänger schätzen diese Theorie

jedoch gerade deshalb, weil man damit so schön

einfach rechnen kann. Vor allem jedoch eignet

sie sich hervorragend dafür, Strahlung selbst

bei geringsten Dosen als gefährlich

darzustellen und somit Ängste zu schüren. Deshalb

gehört diese Methode zum bevorzugten

Rüstzeug von Kernkraftgegnern, Öko-Institute

n und auch mancher öffentlicher Stellen,

um unter dem Vorwand des Strahlenschutzes

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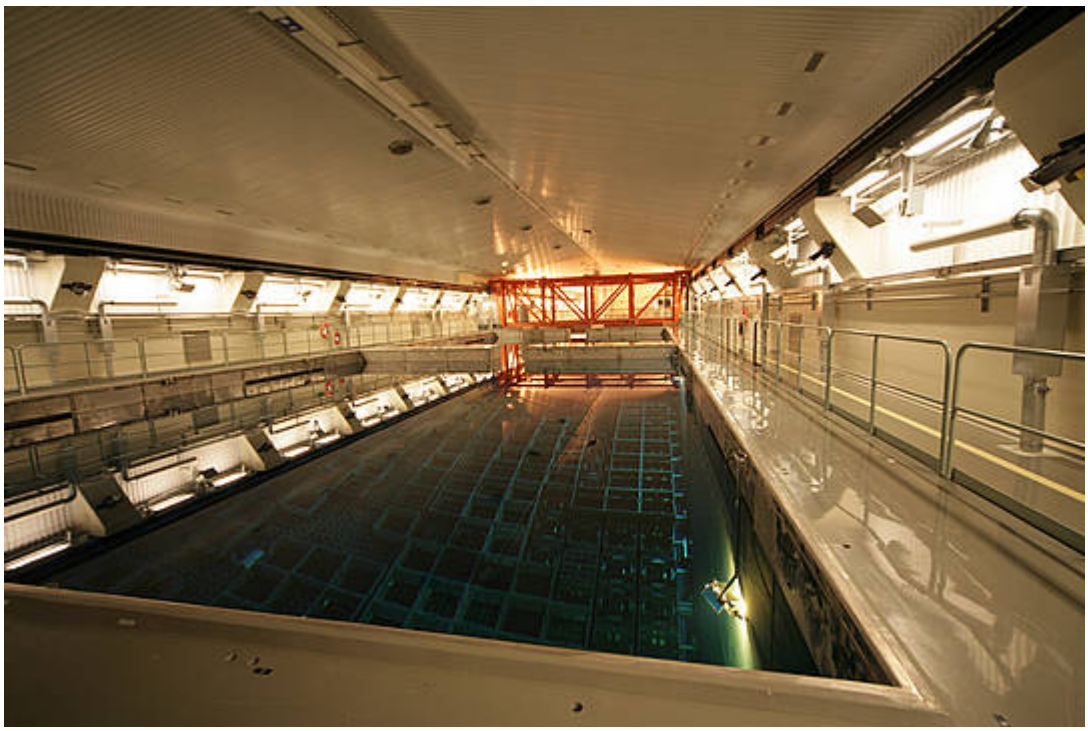
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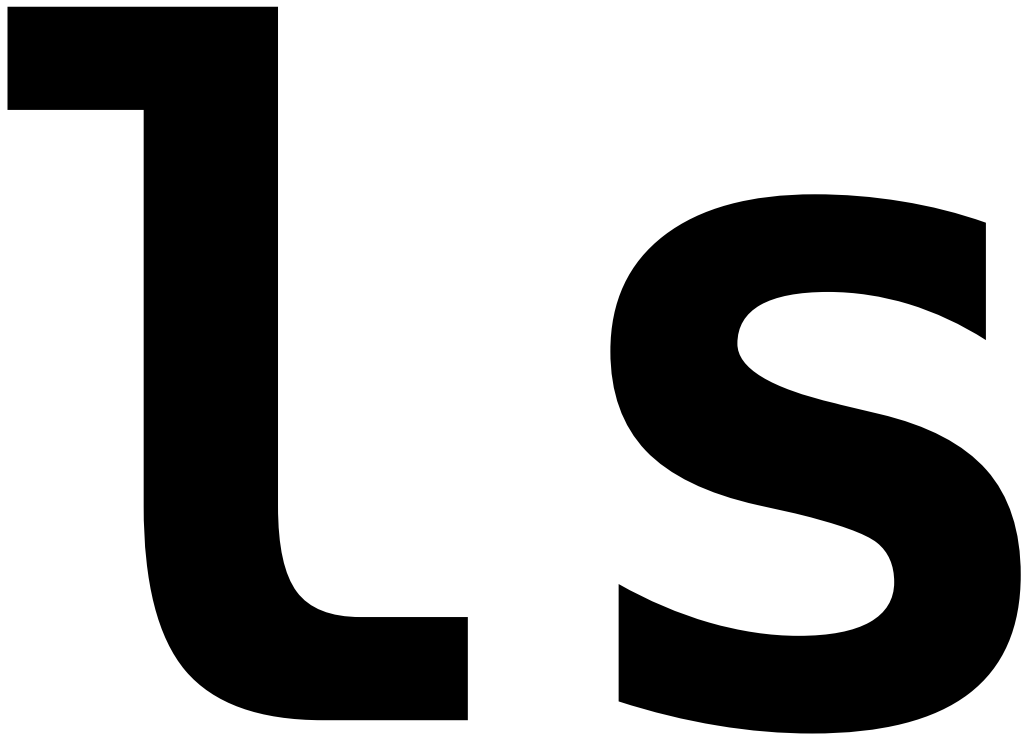
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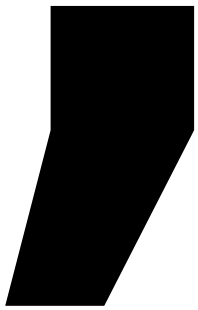
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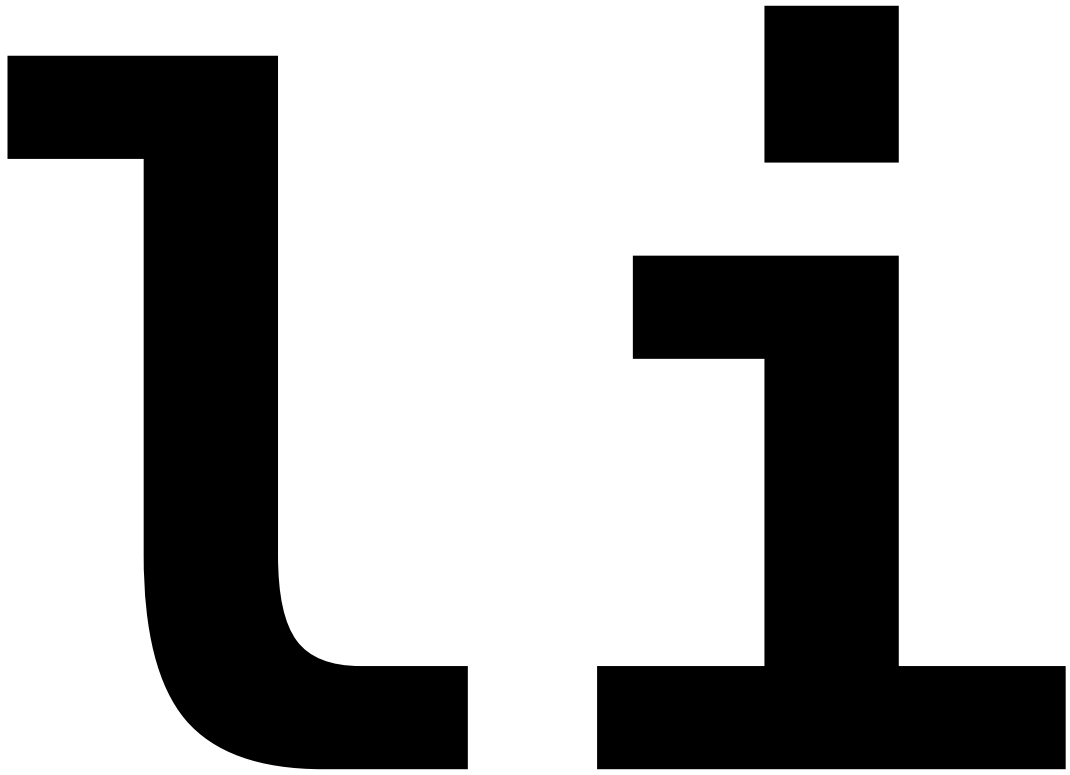
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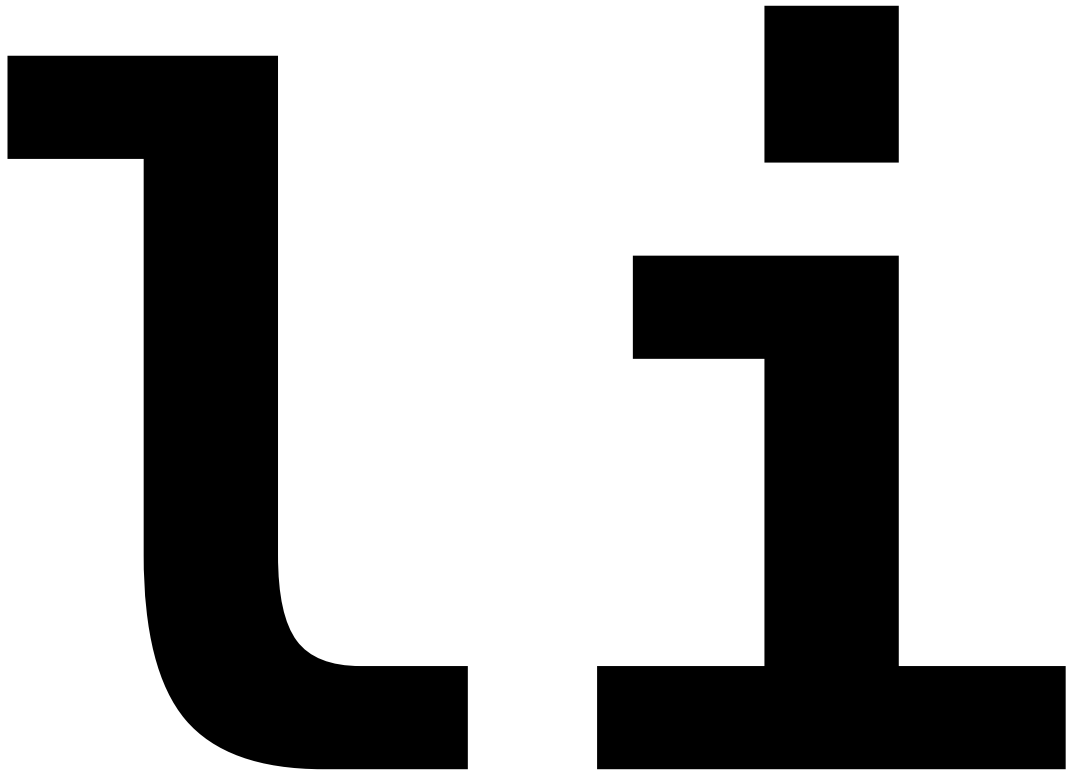


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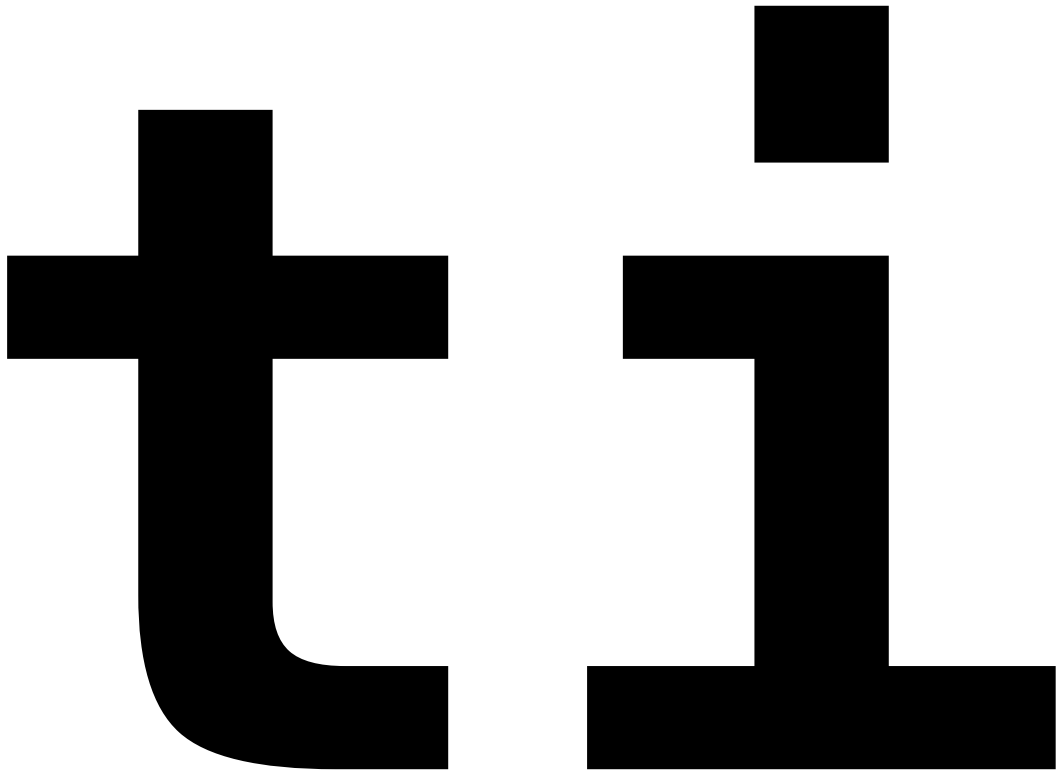
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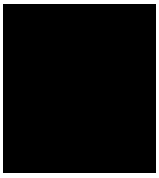
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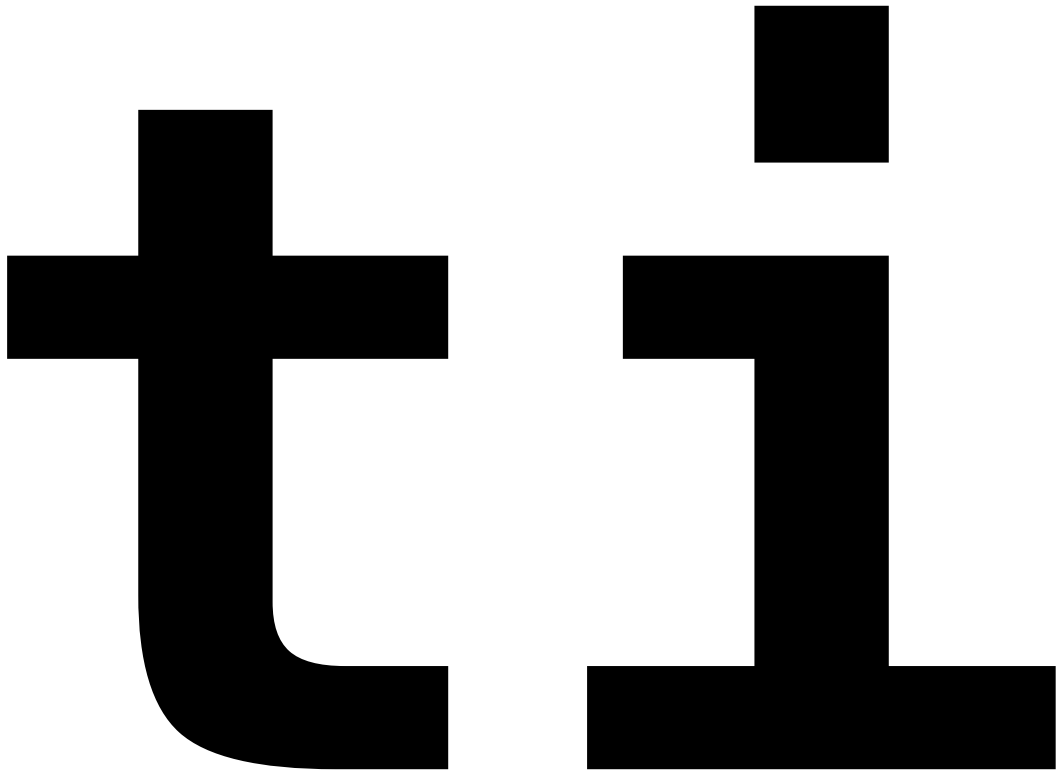
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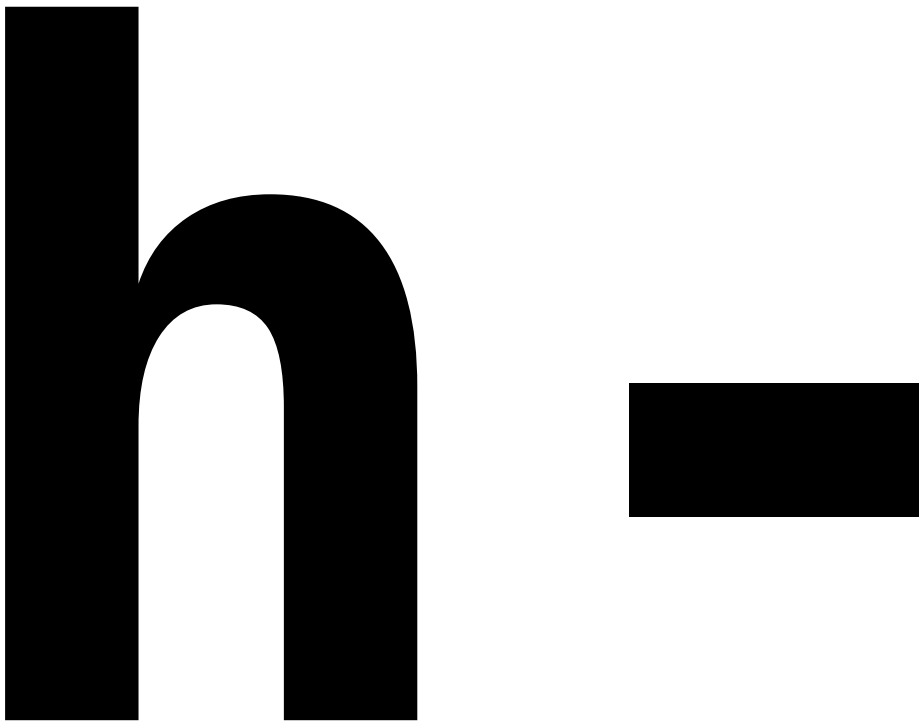
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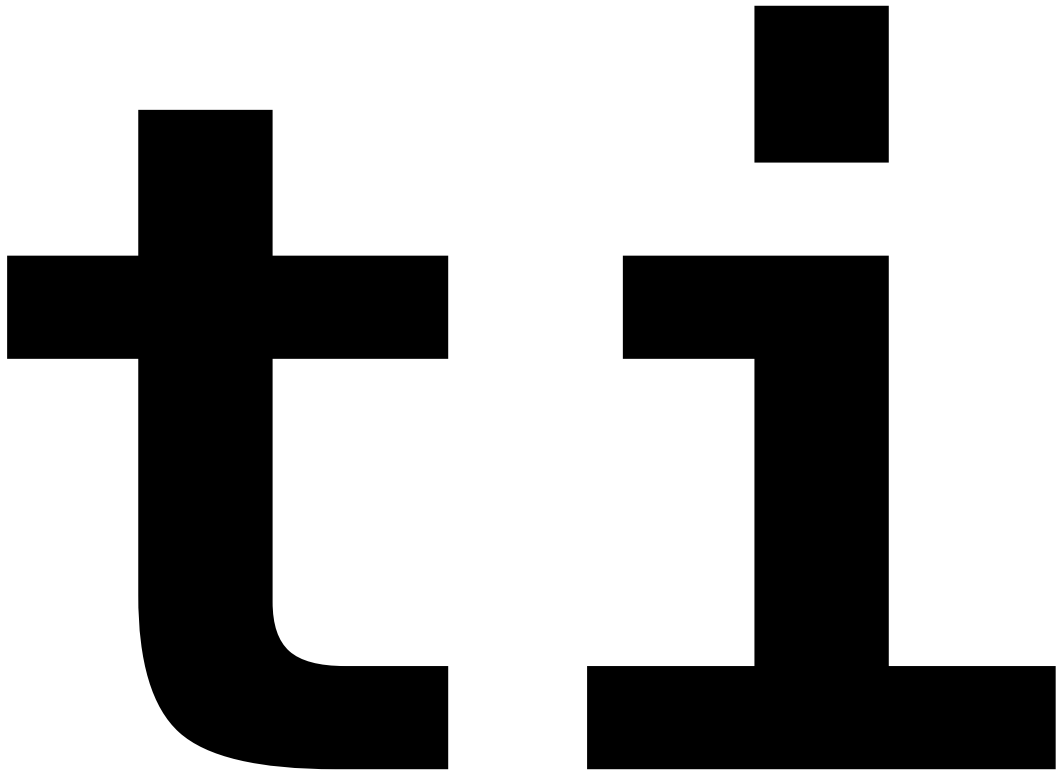


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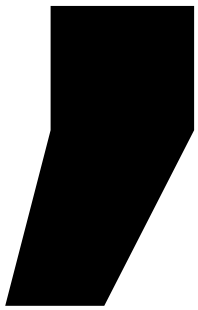
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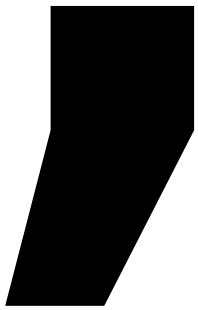
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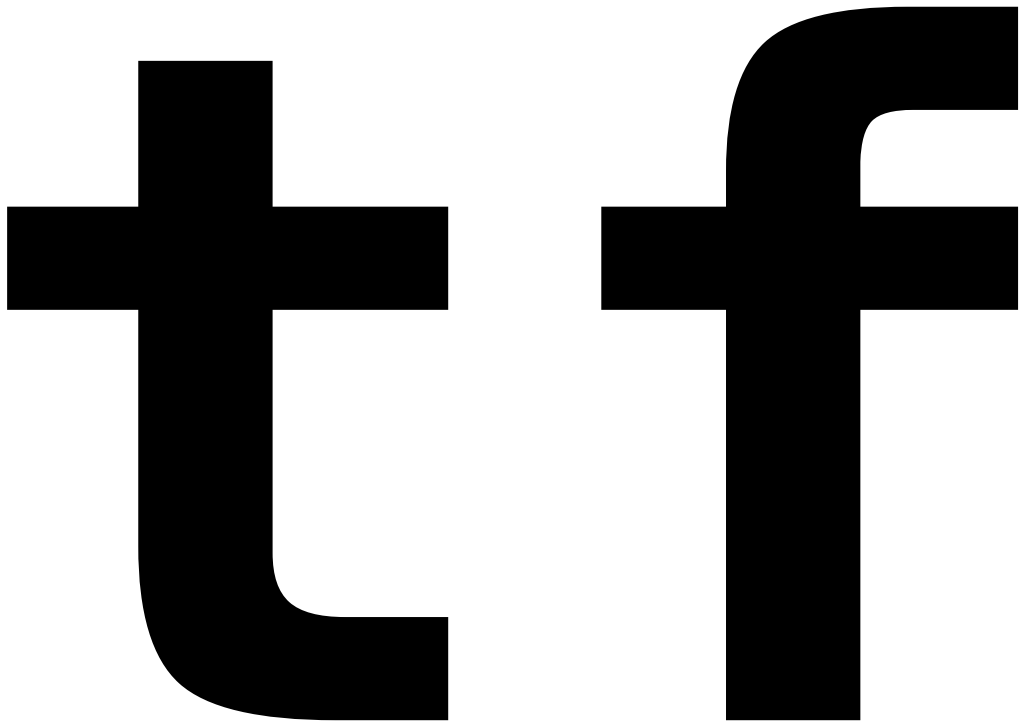


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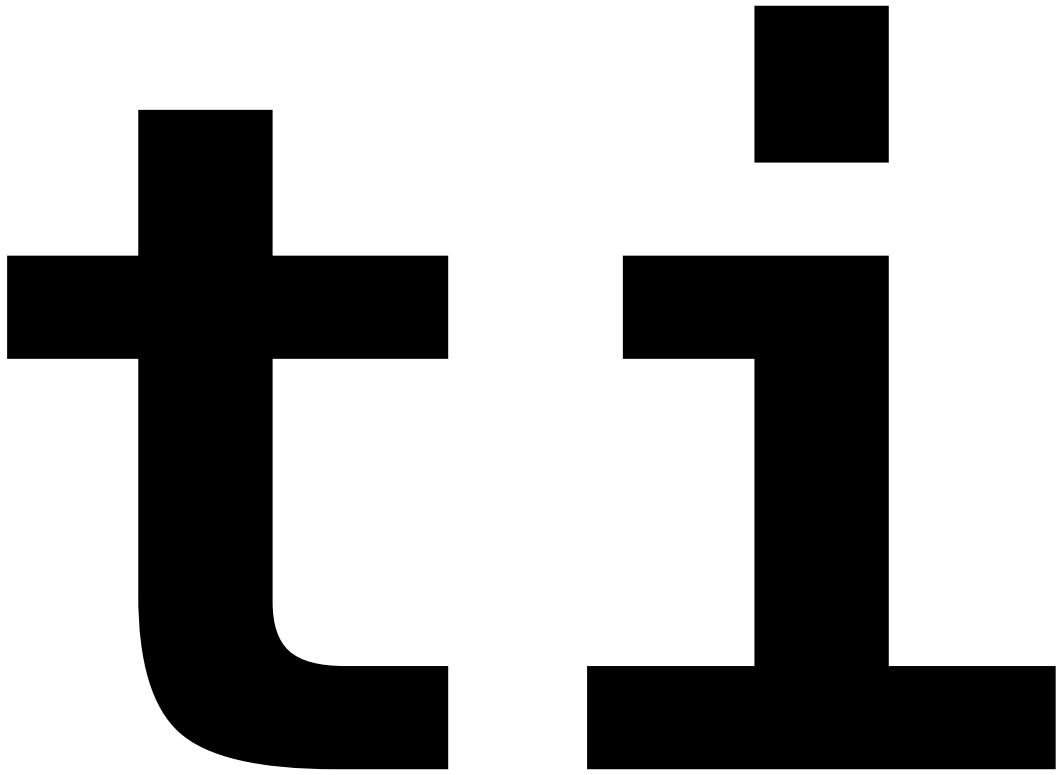
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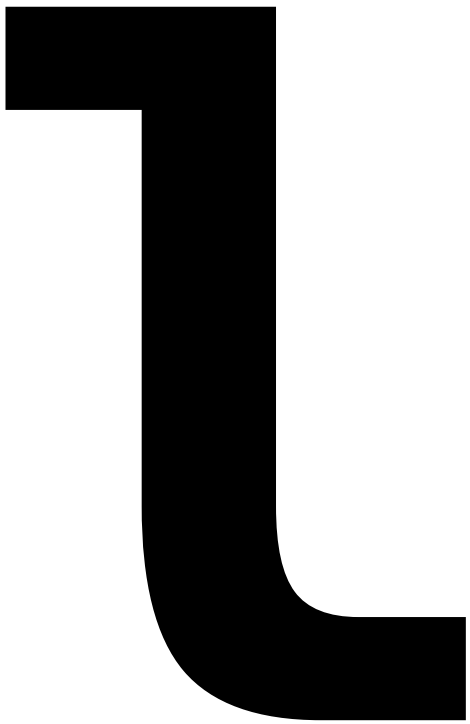
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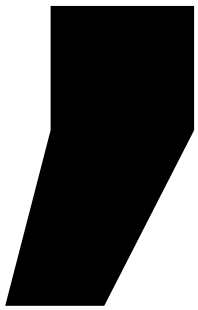
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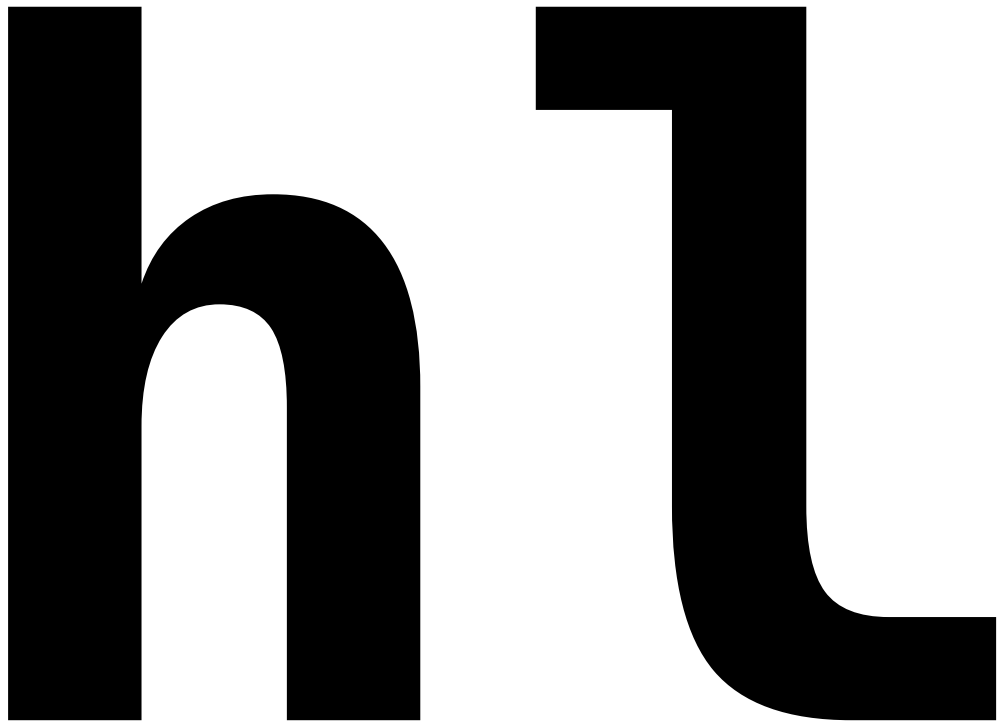
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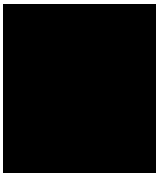
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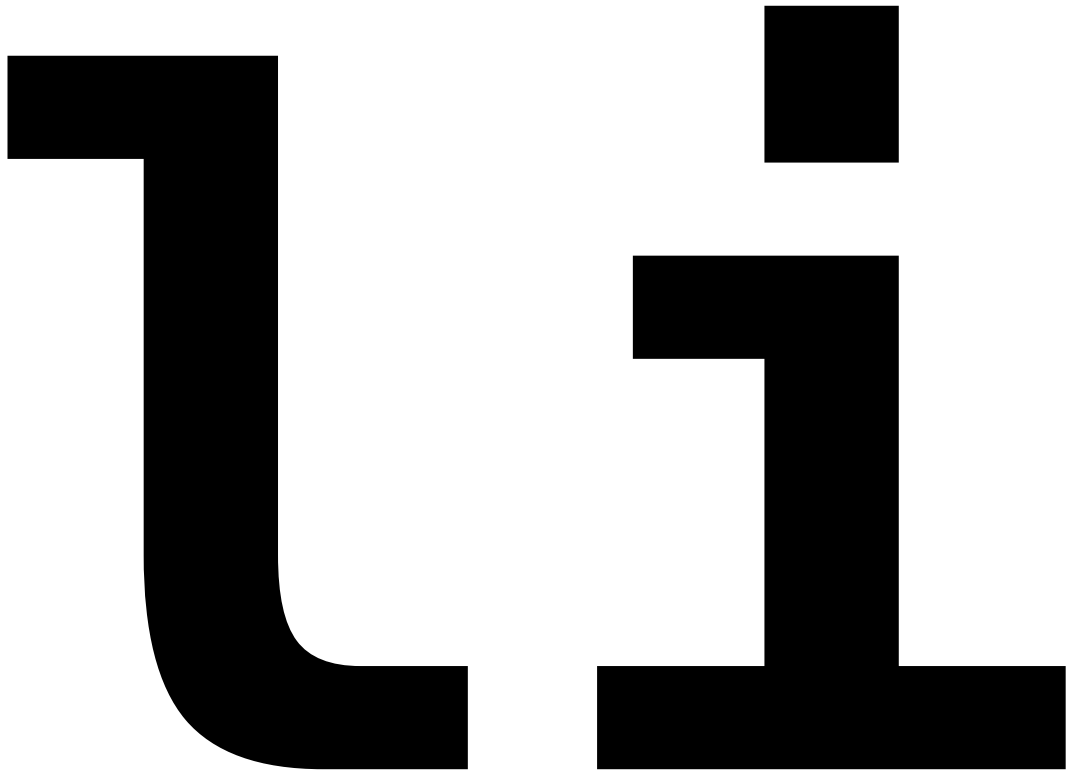

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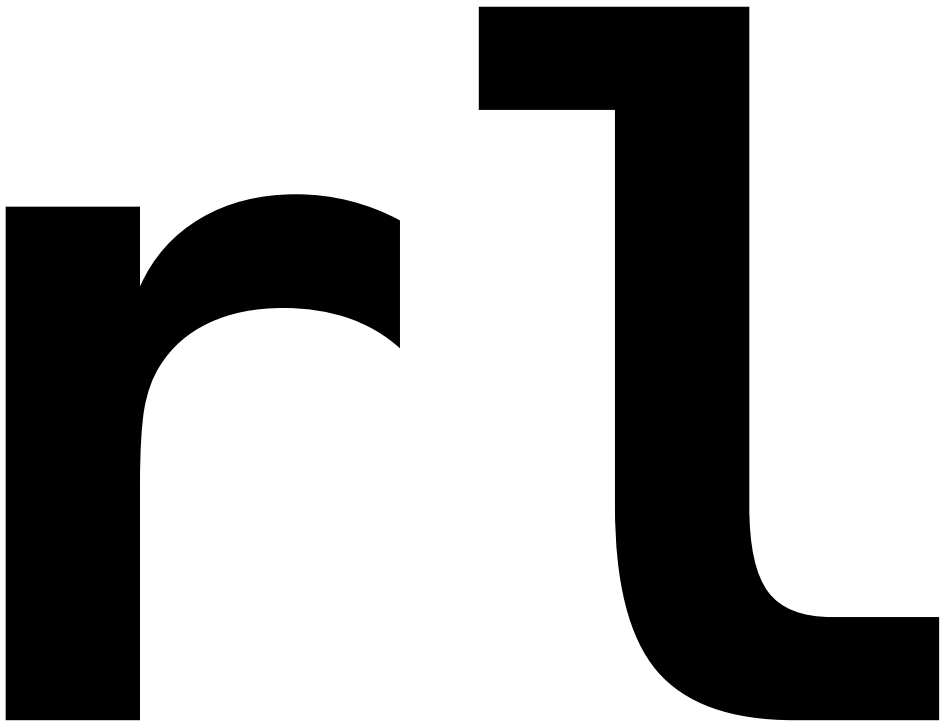
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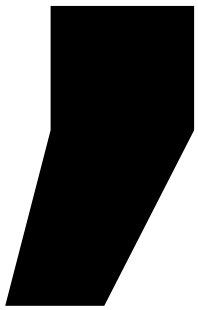


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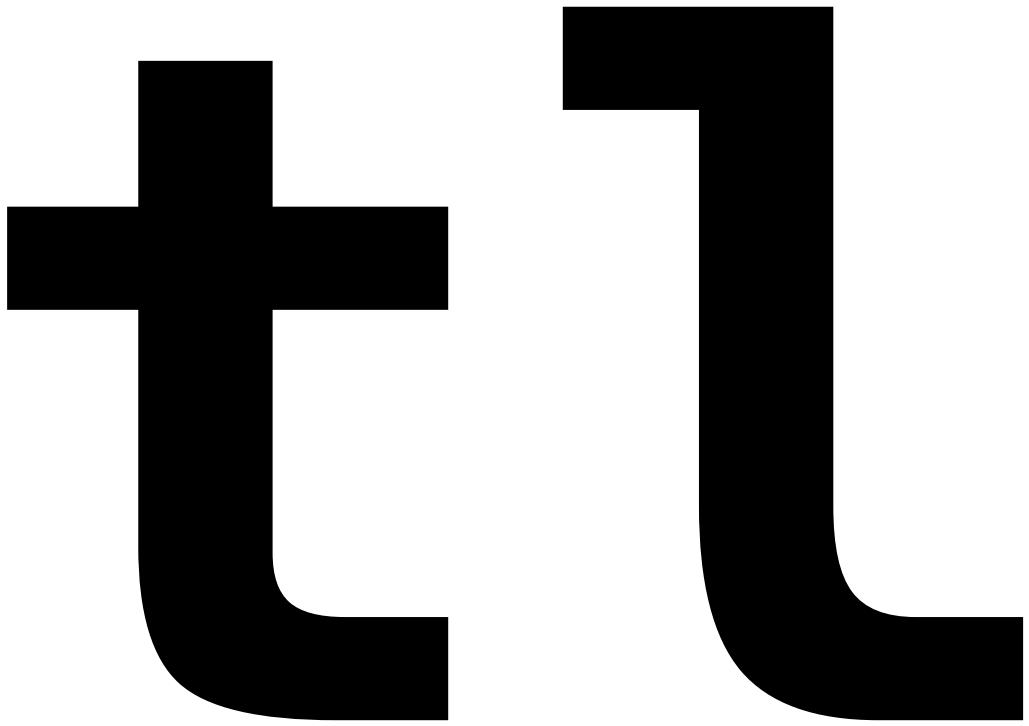

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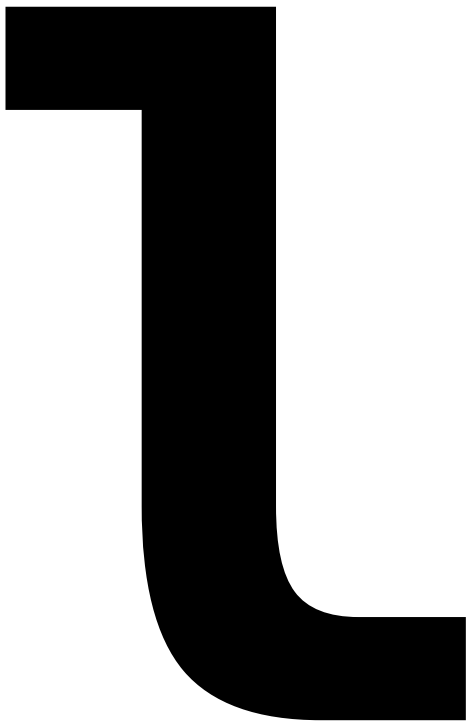
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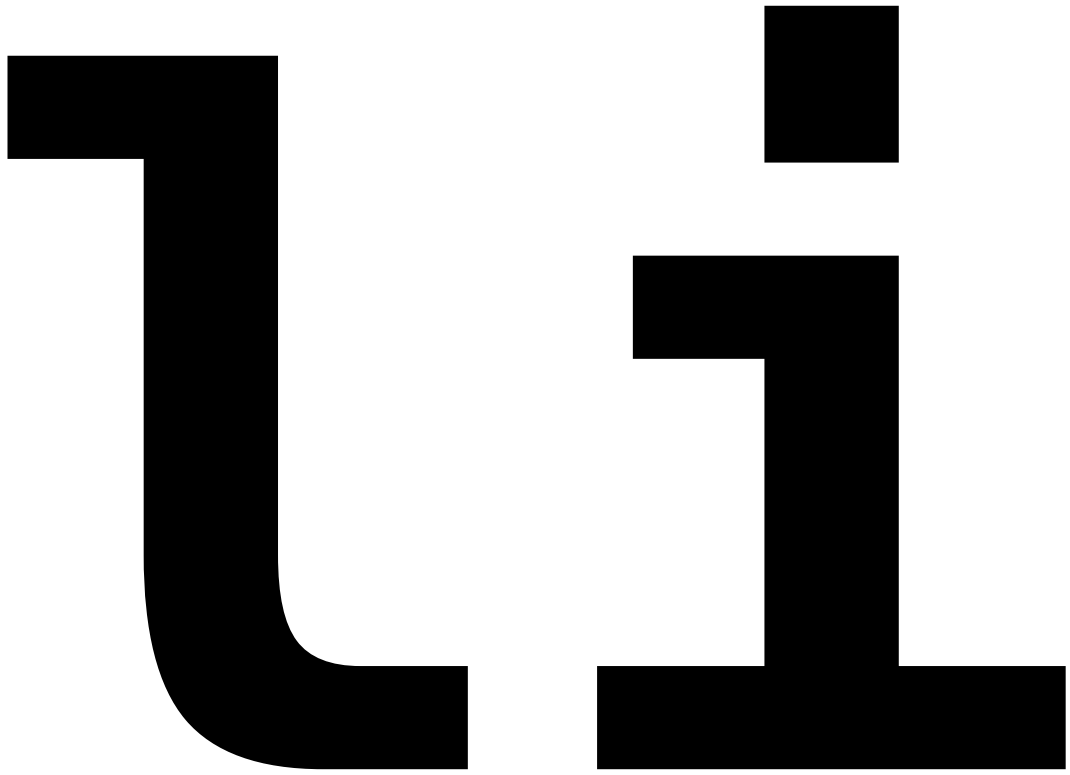
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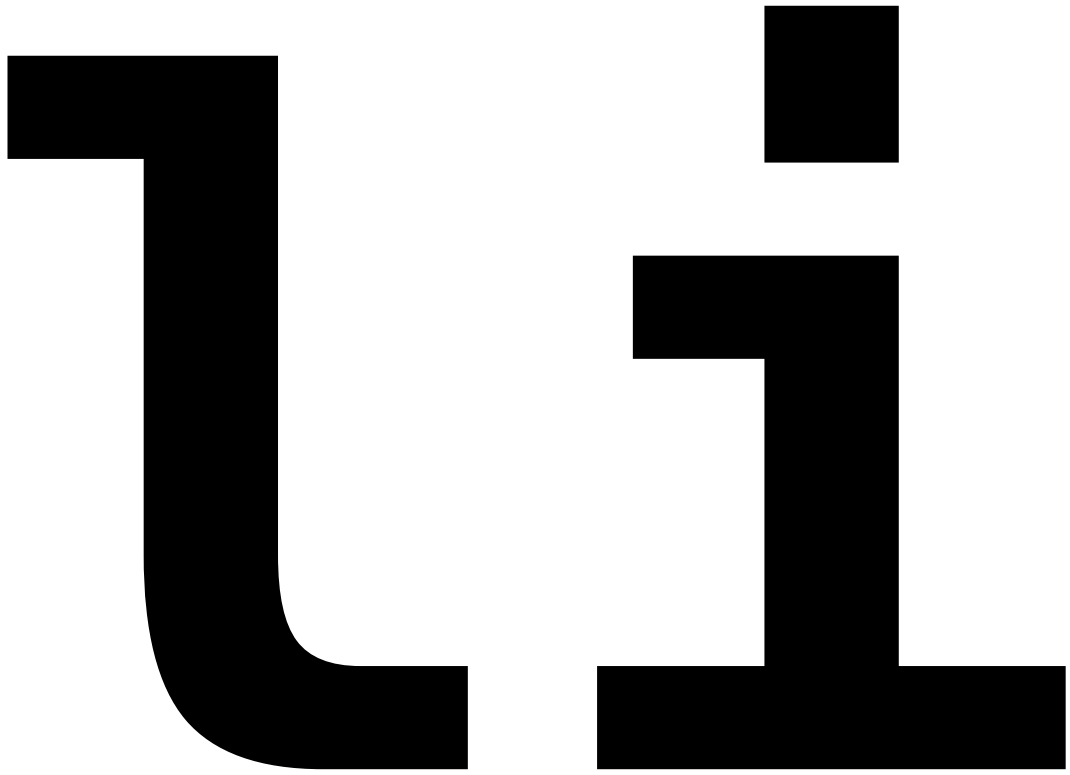
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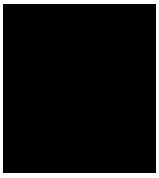
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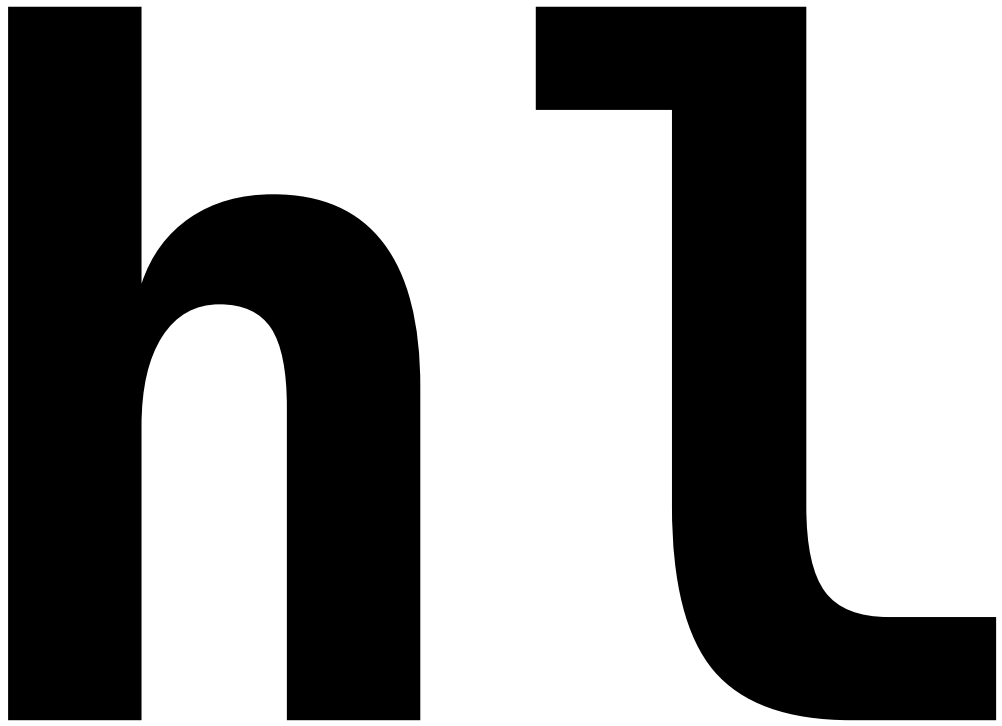
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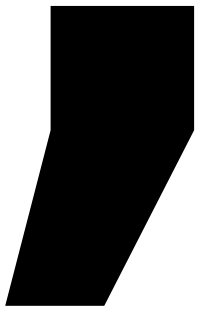
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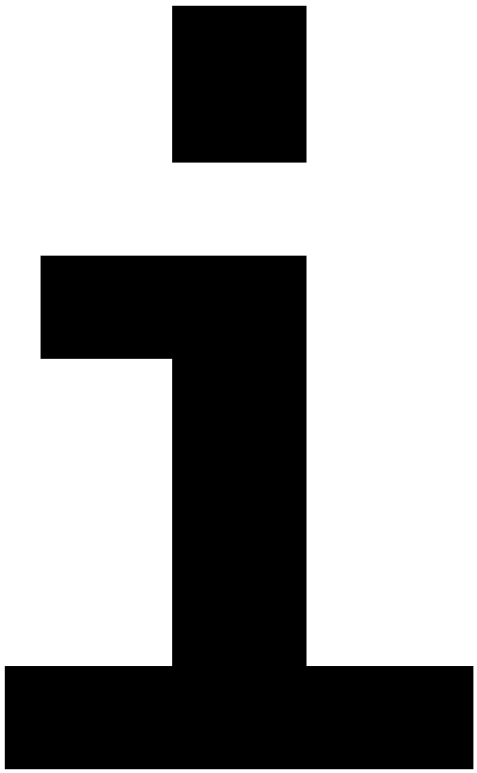
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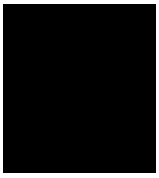
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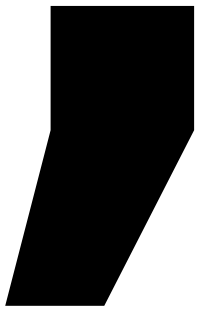
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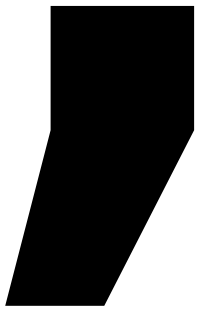
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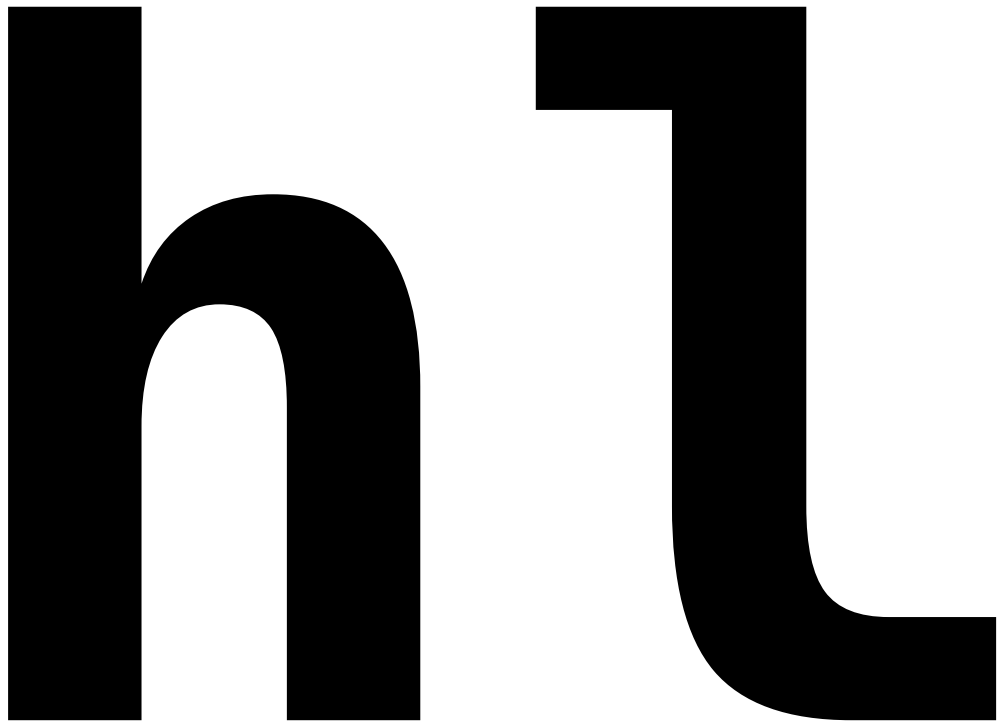
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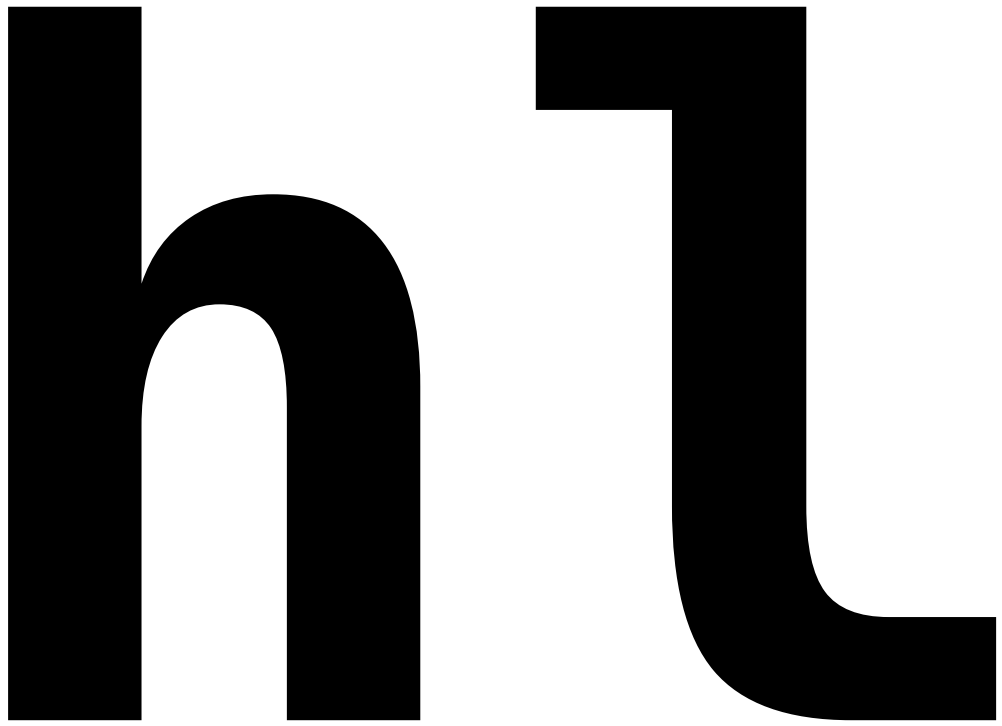
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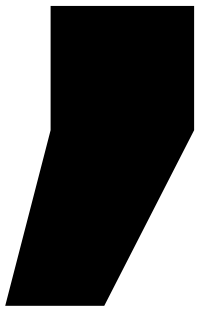

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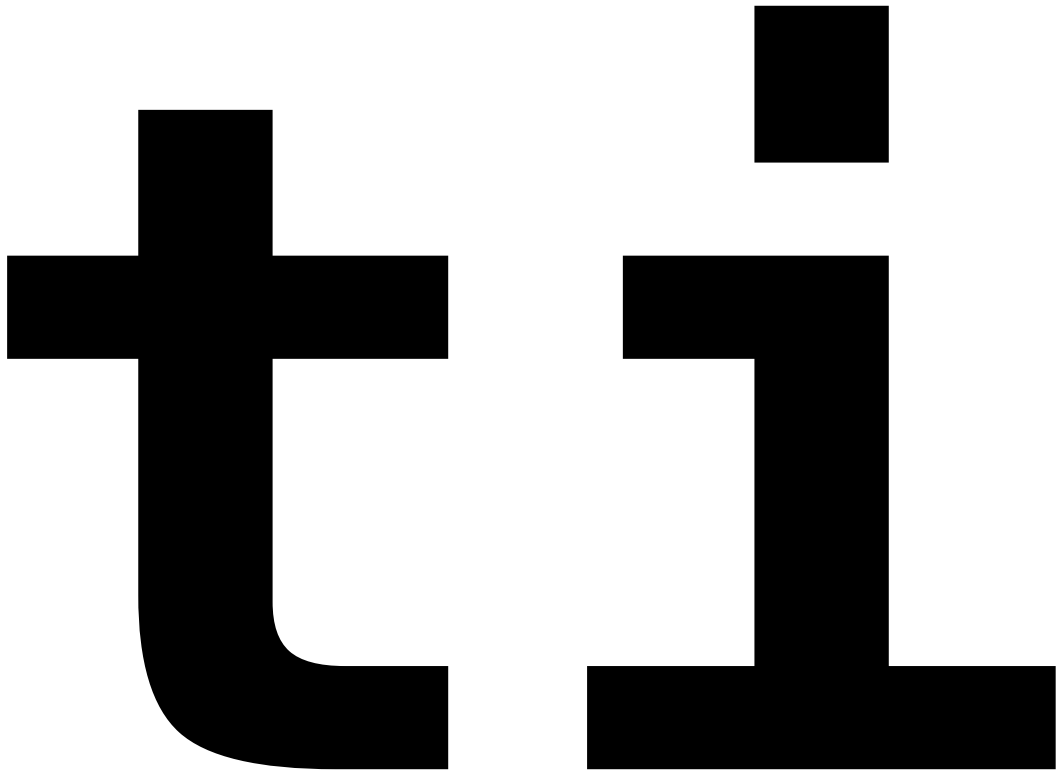
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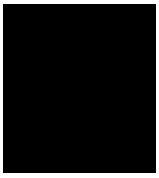
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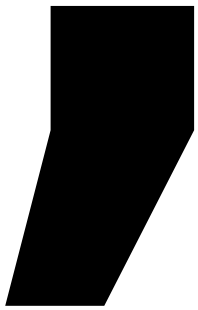

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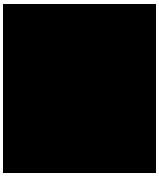
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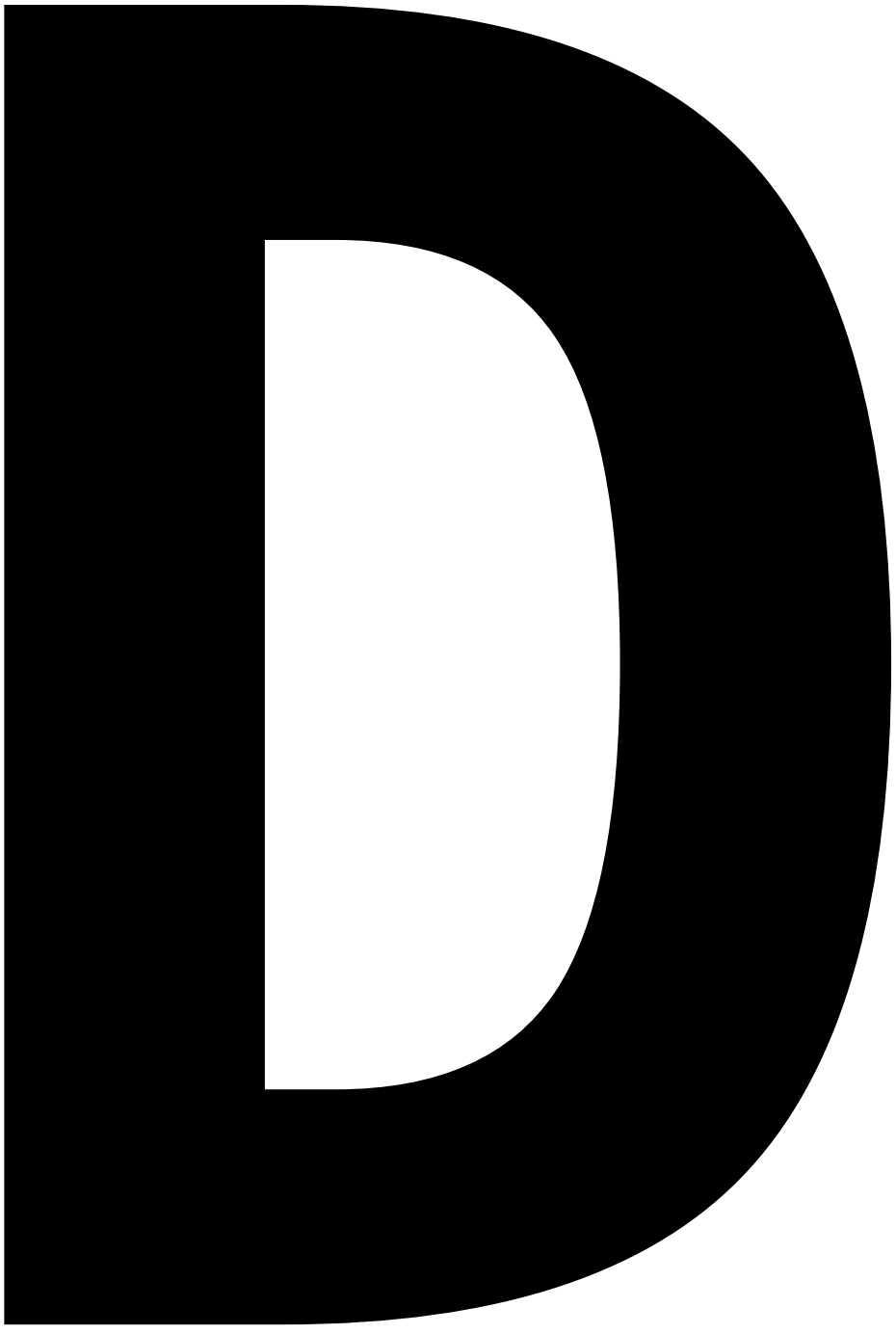

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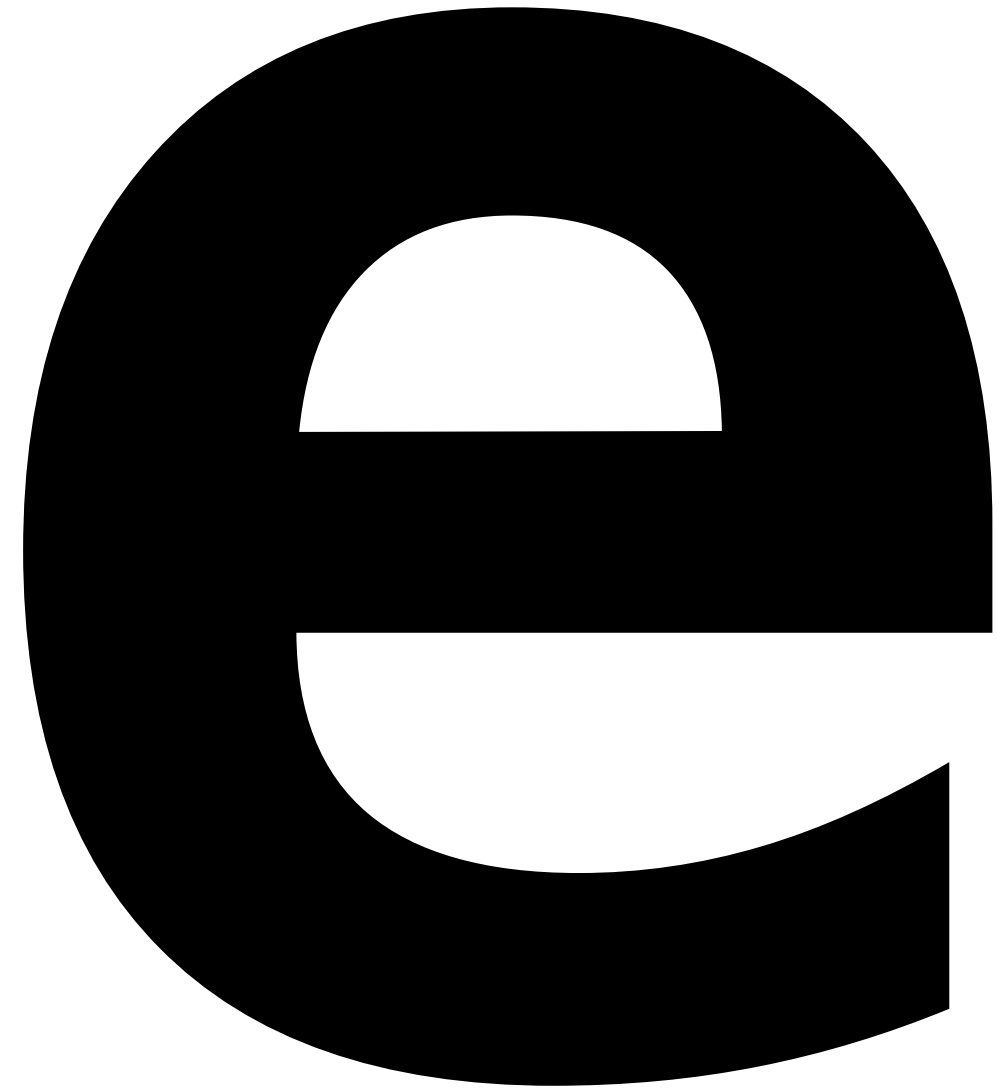
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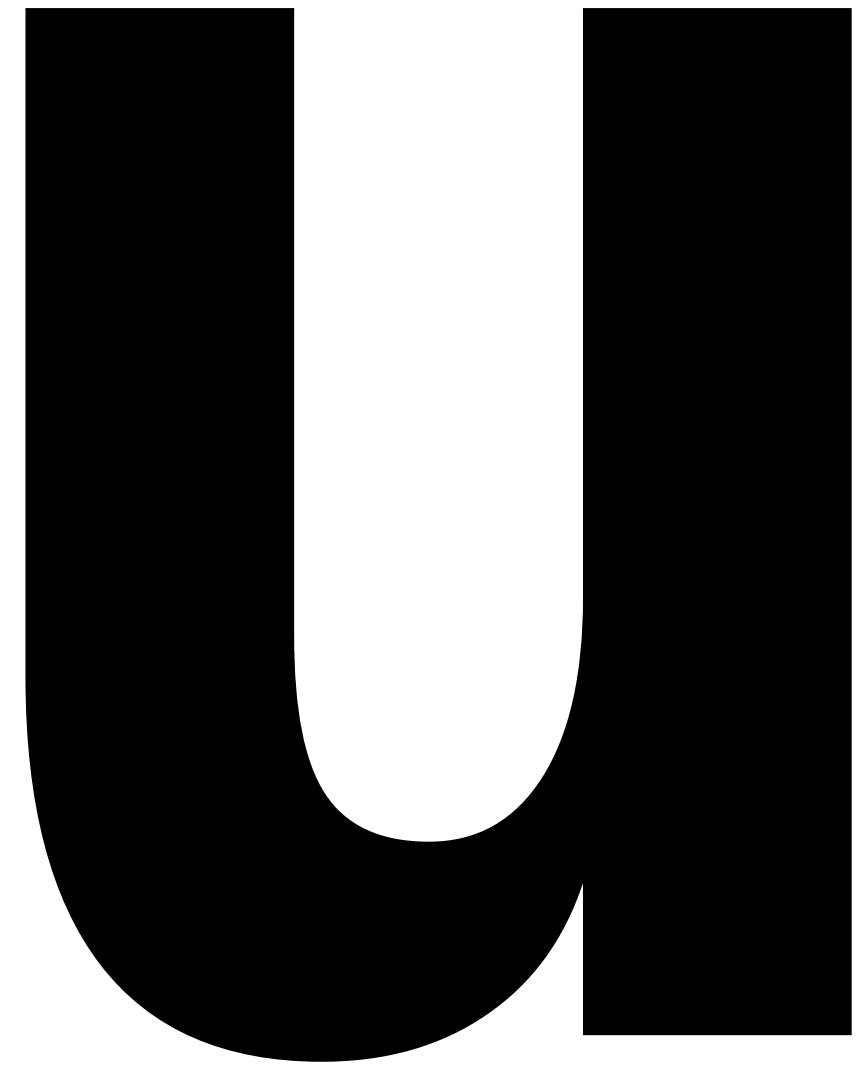
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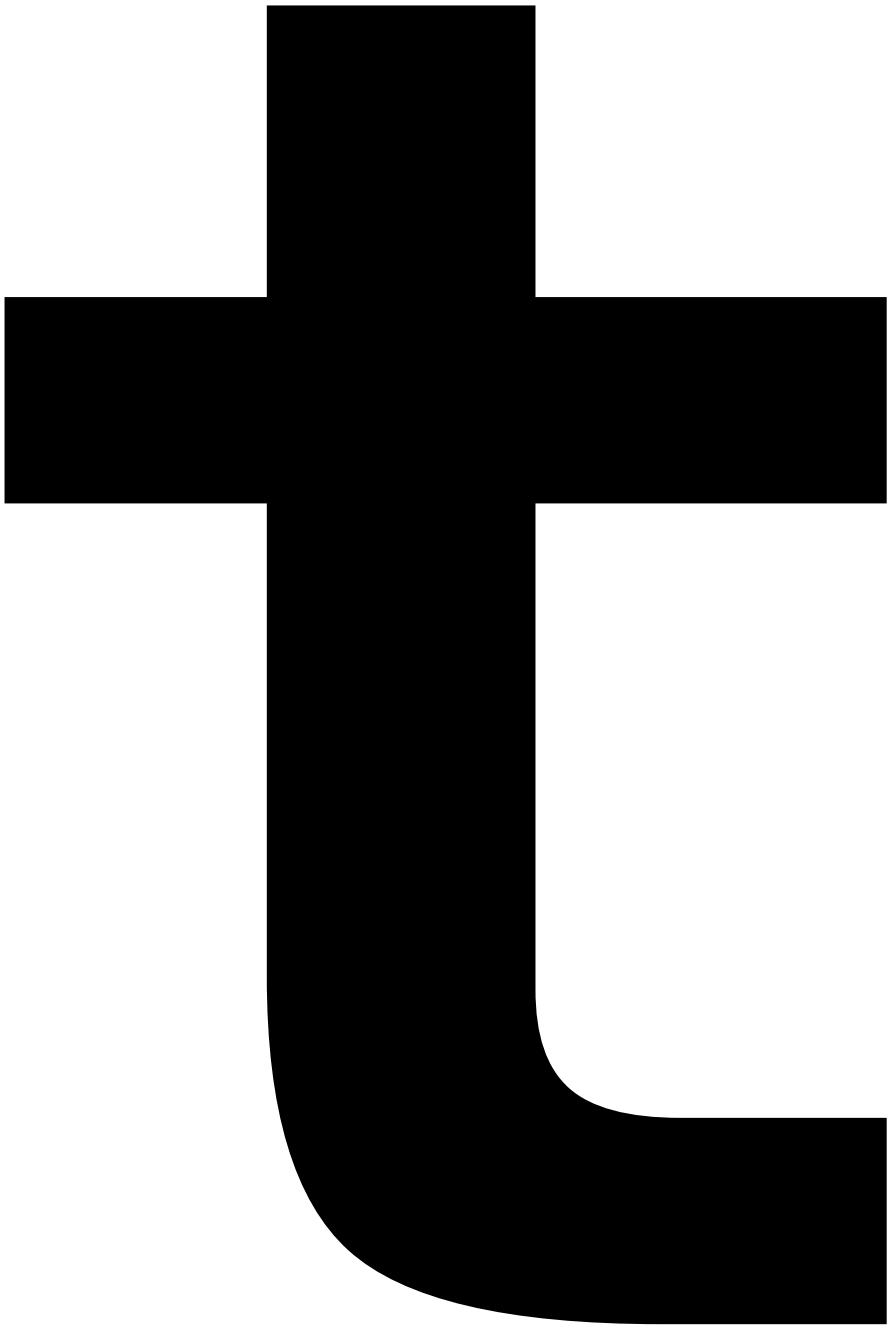




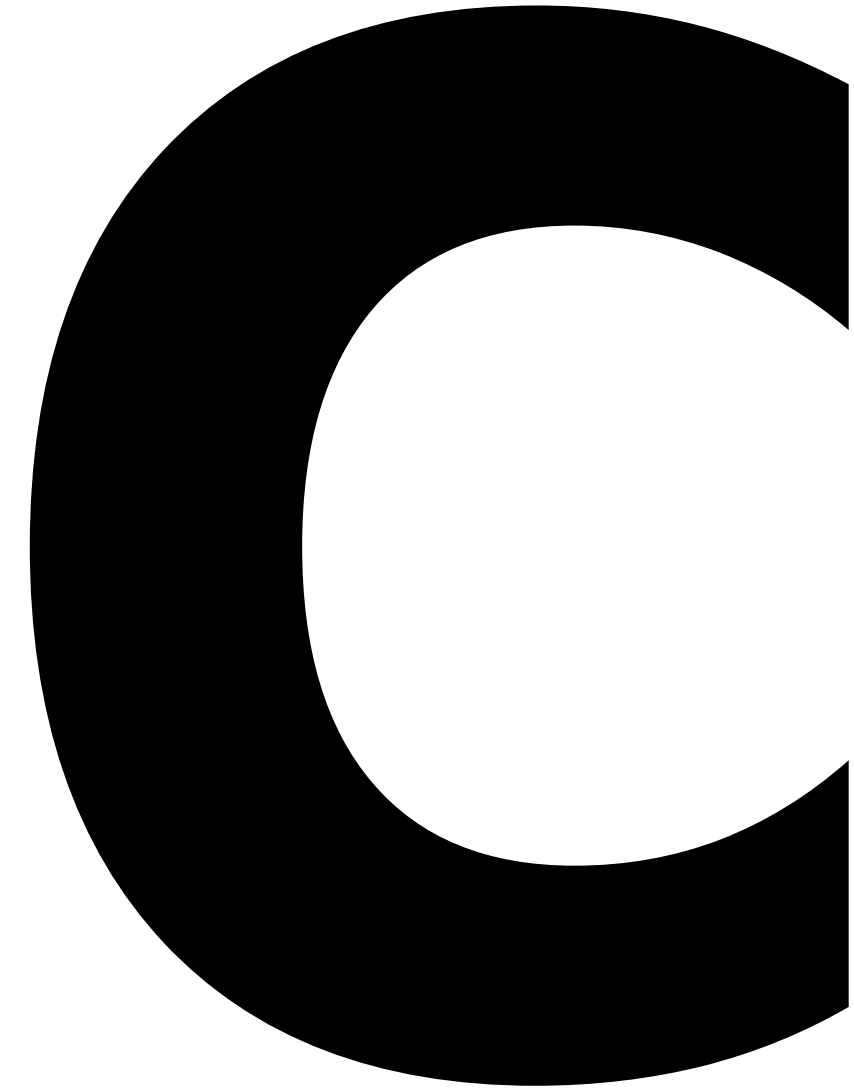


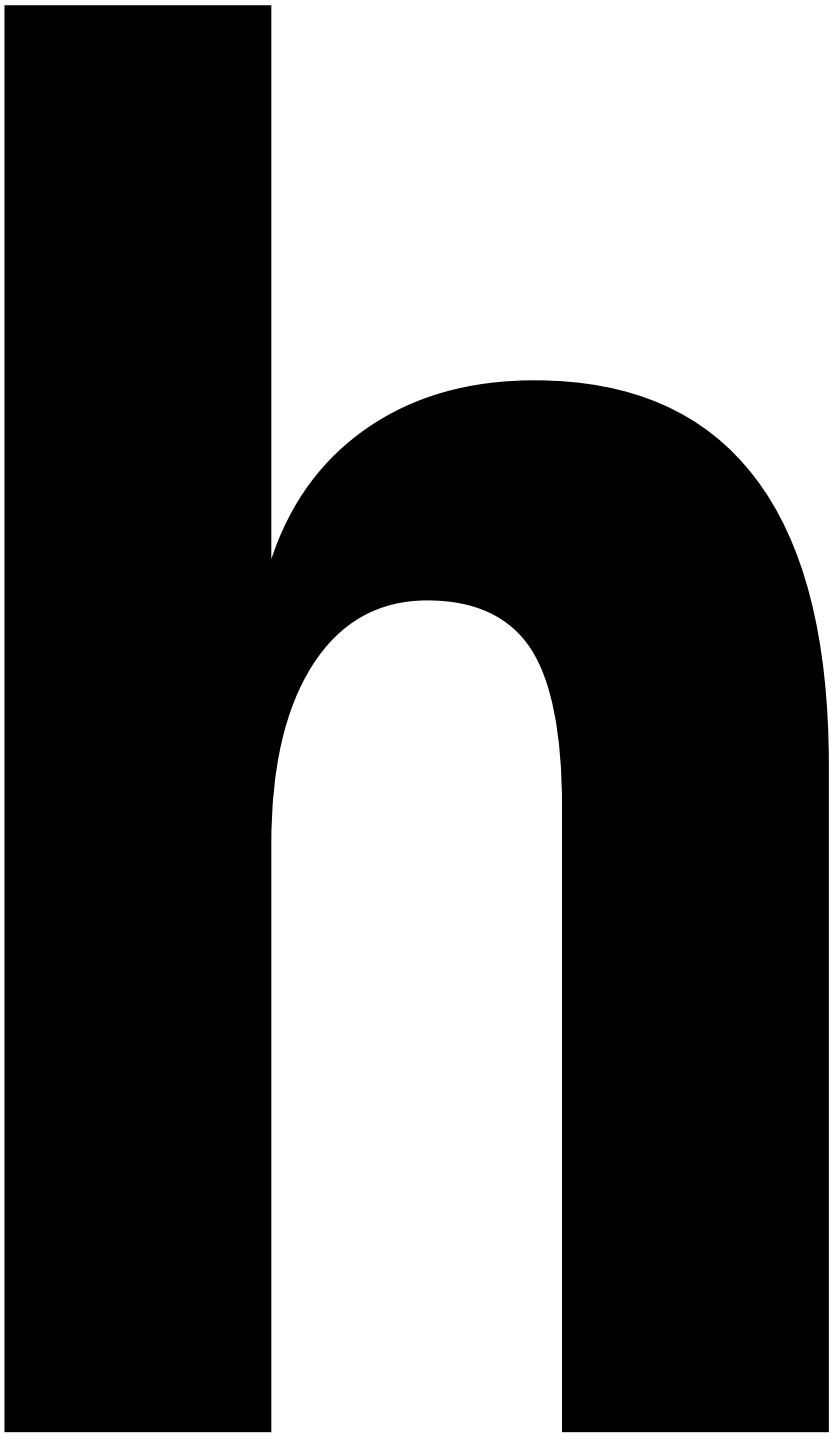


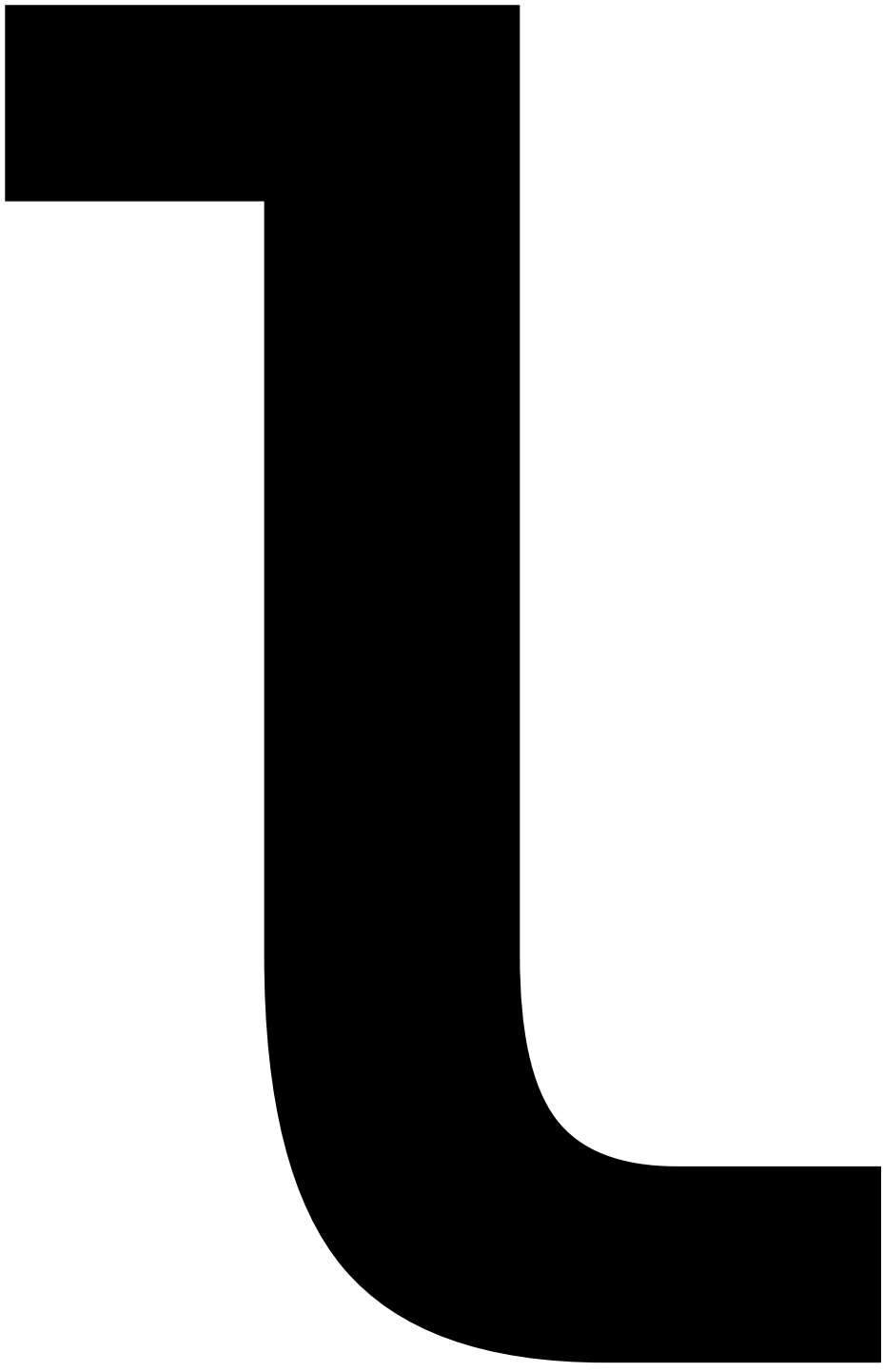




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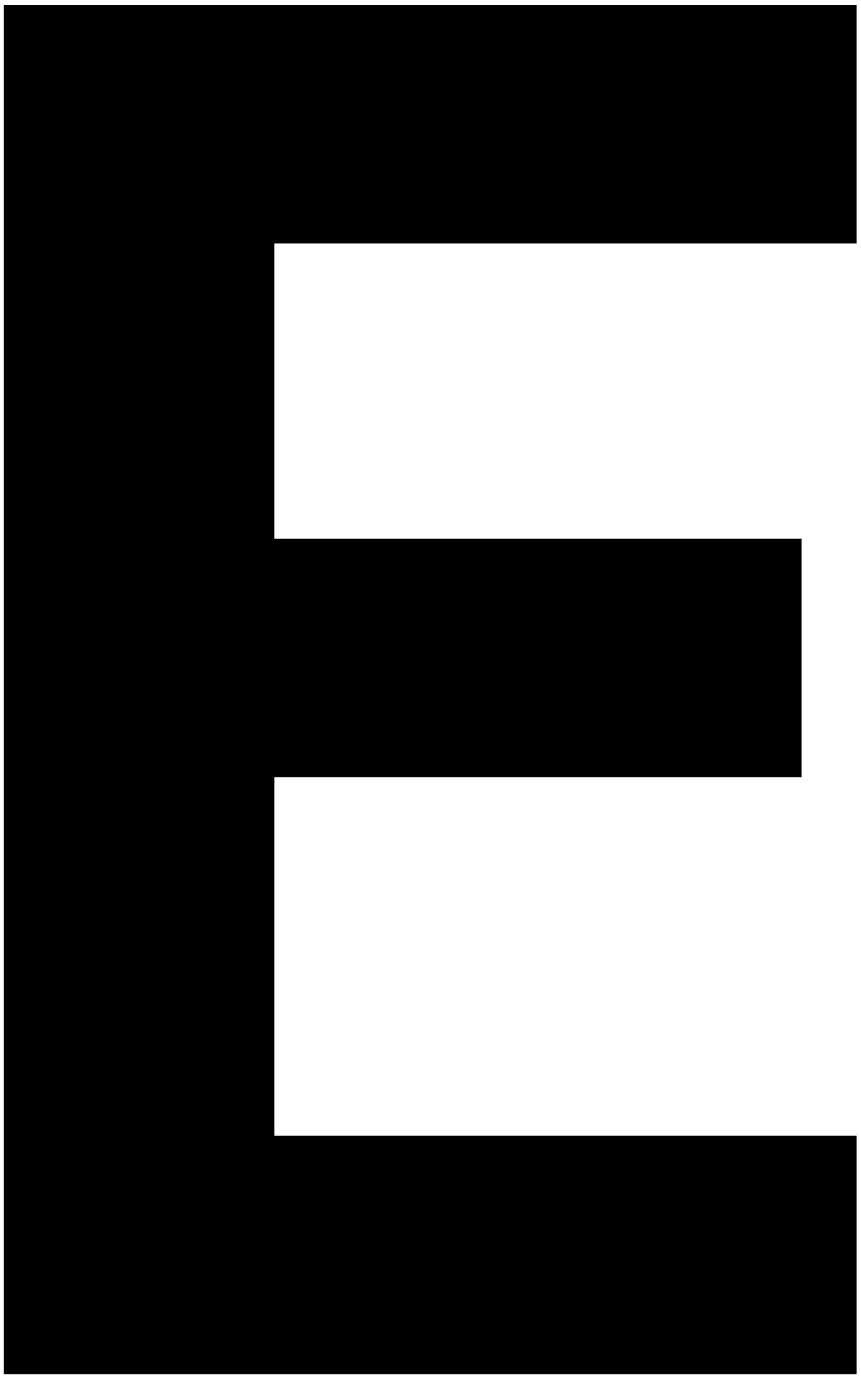




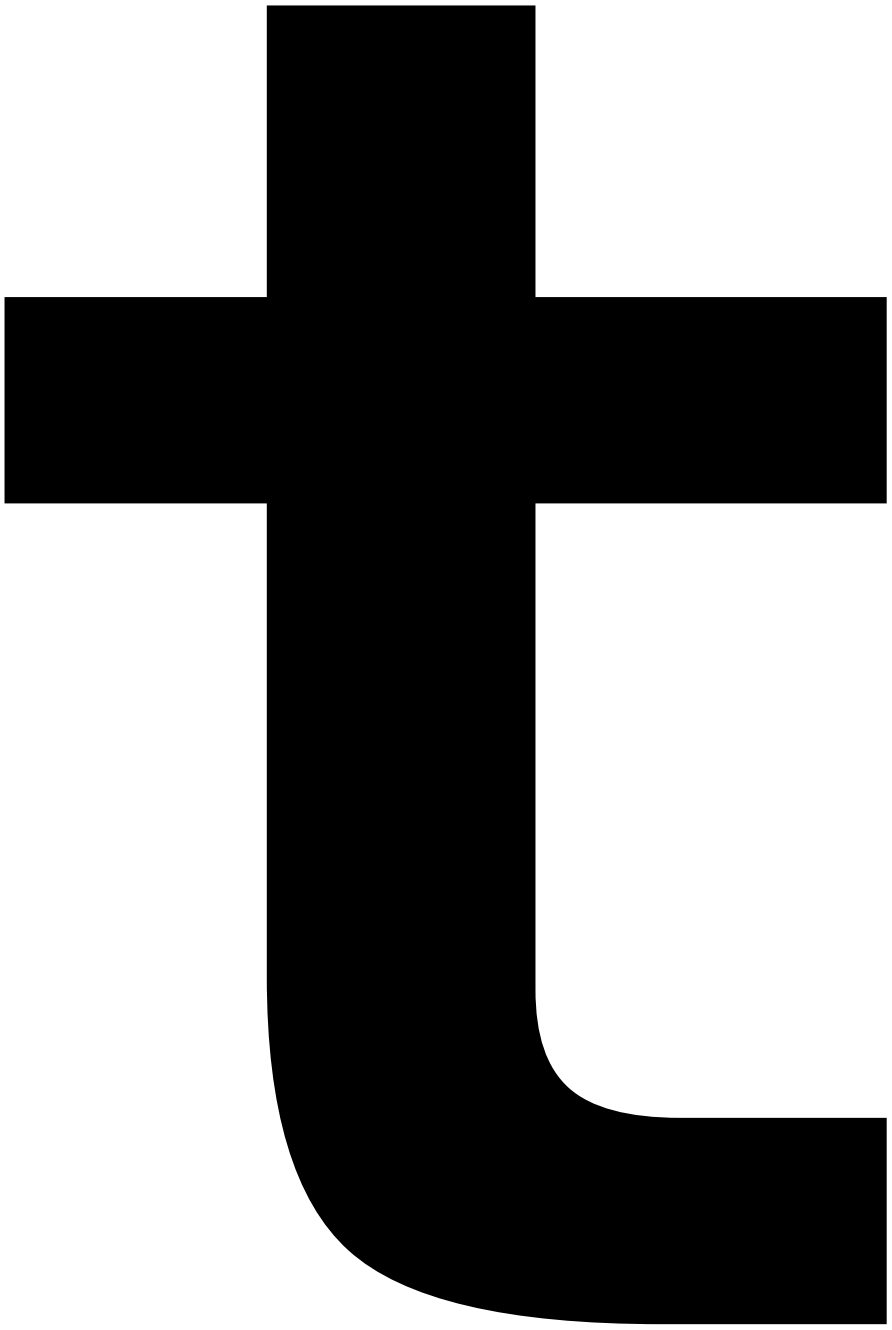
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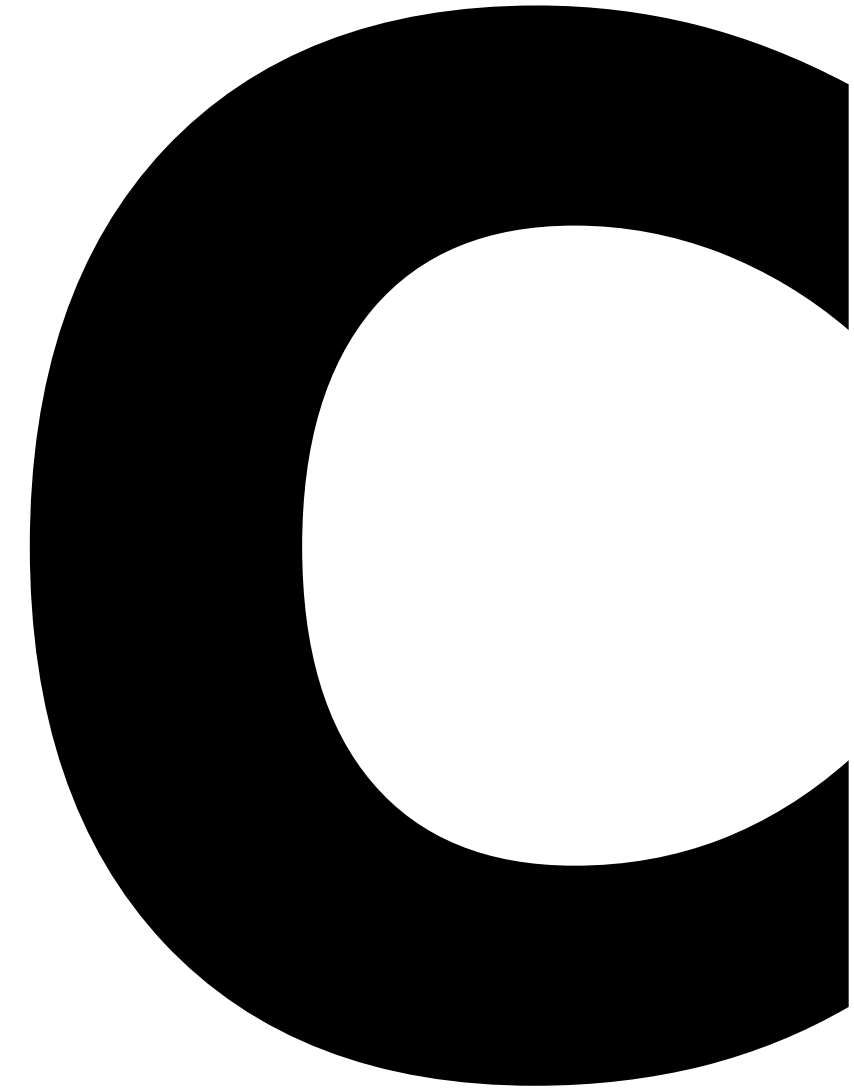
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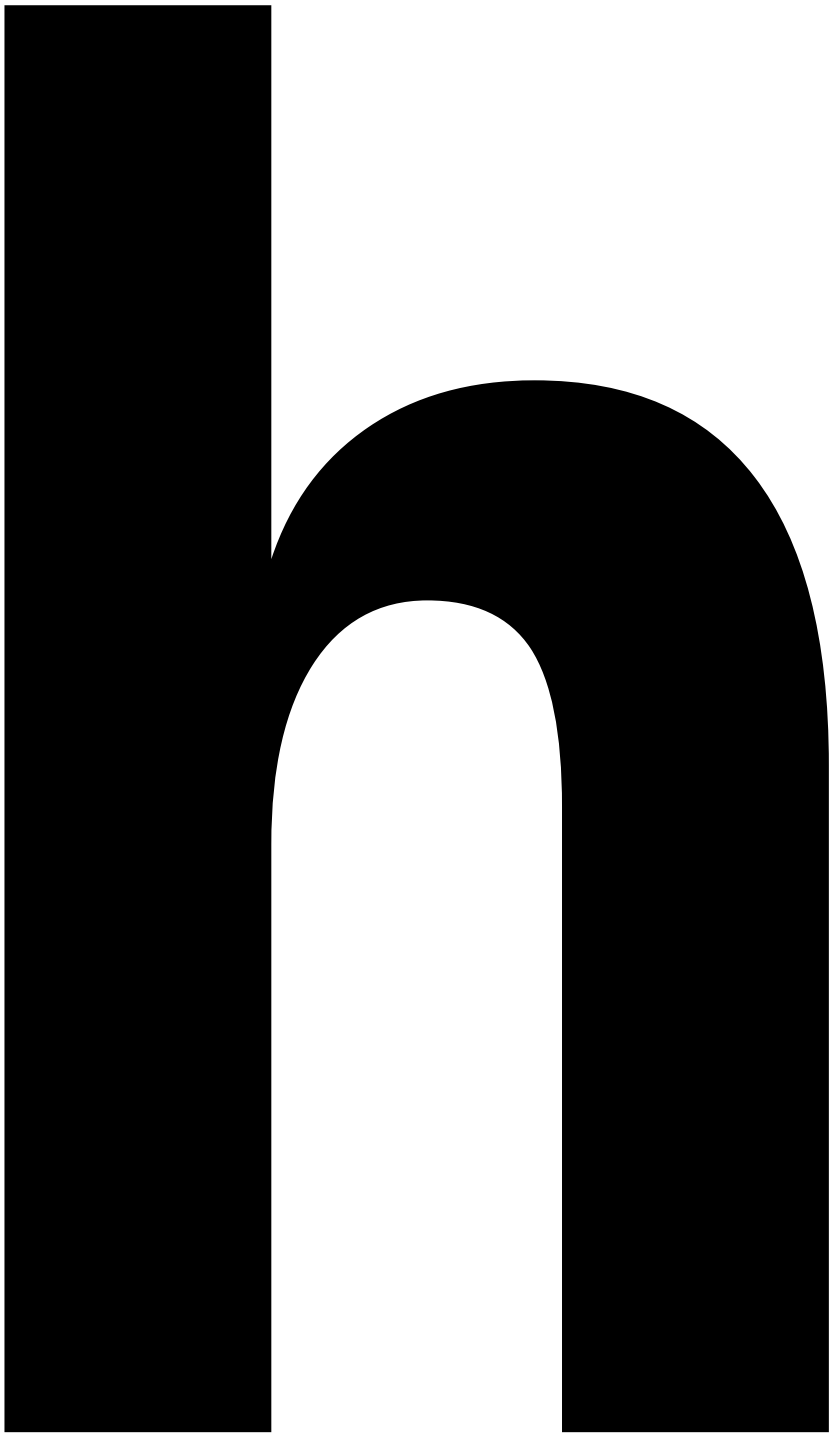


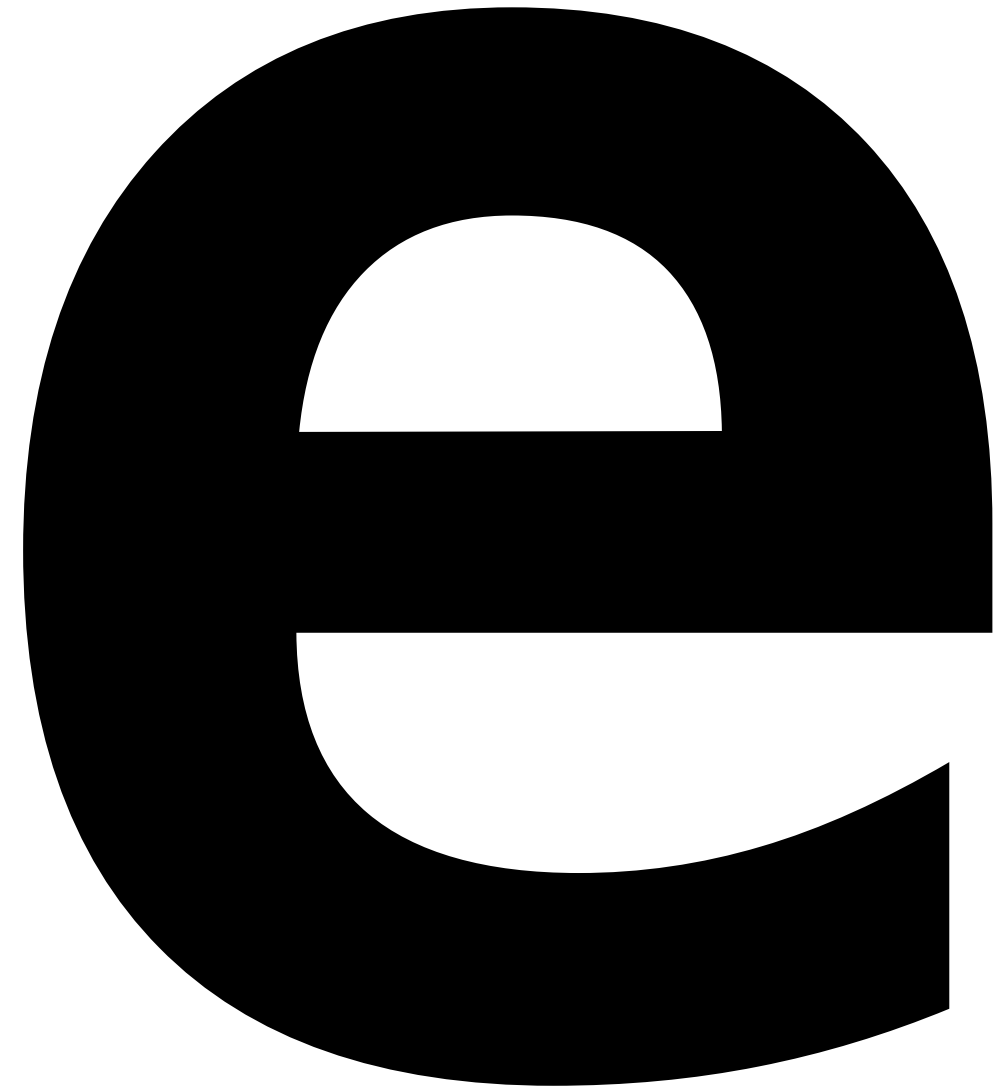
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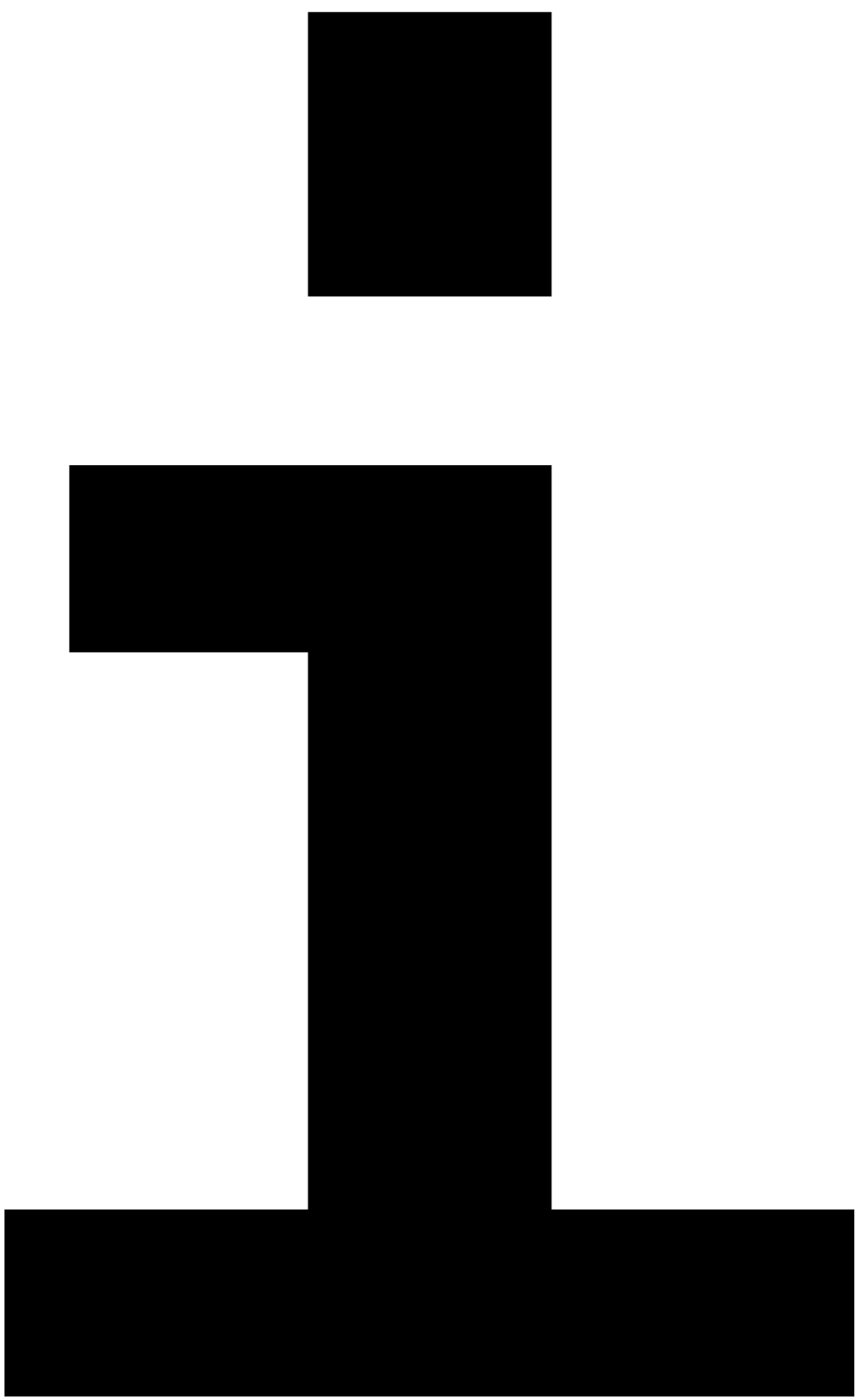


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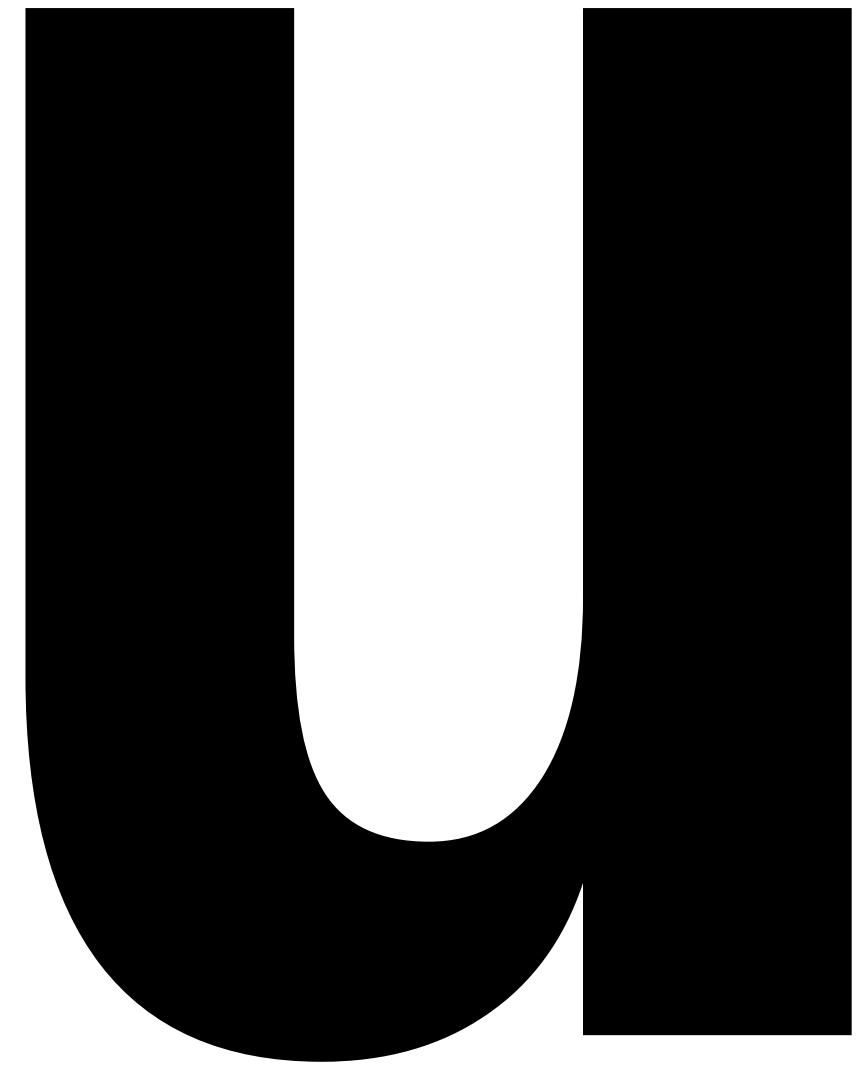




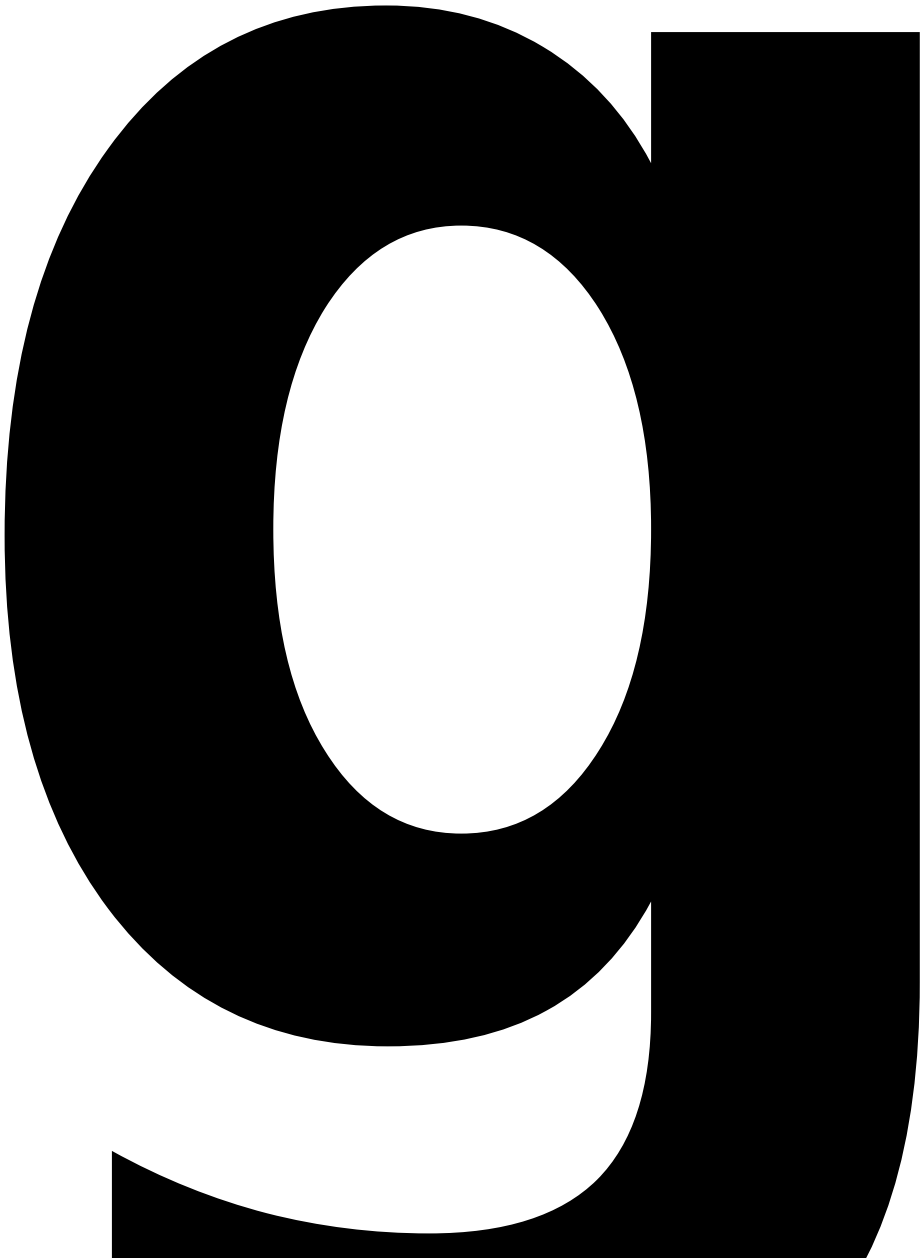




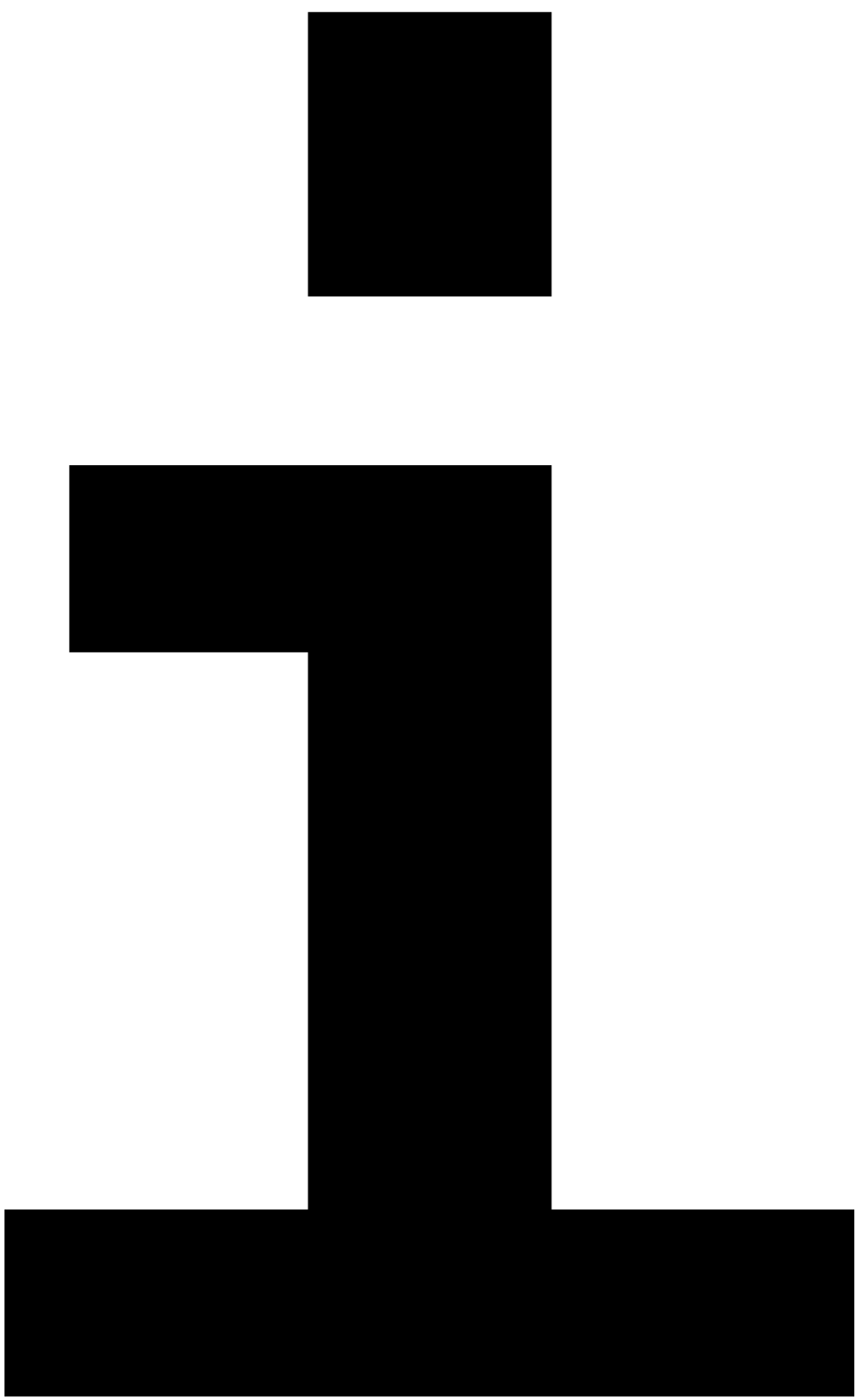
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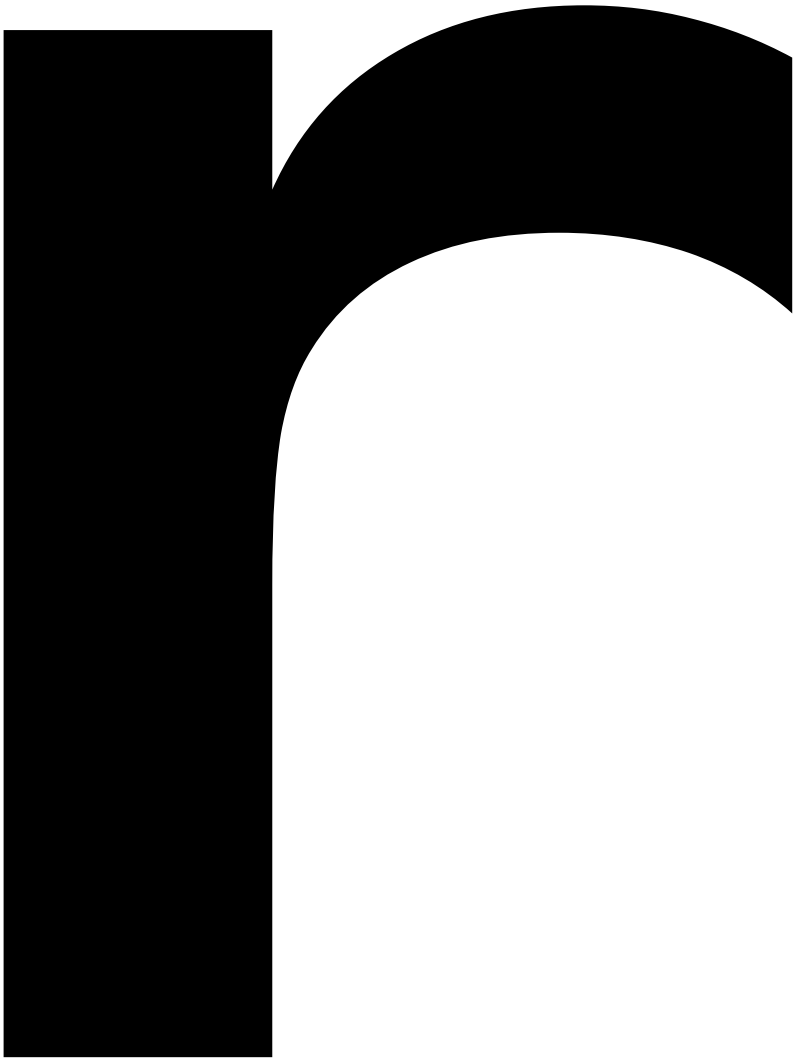


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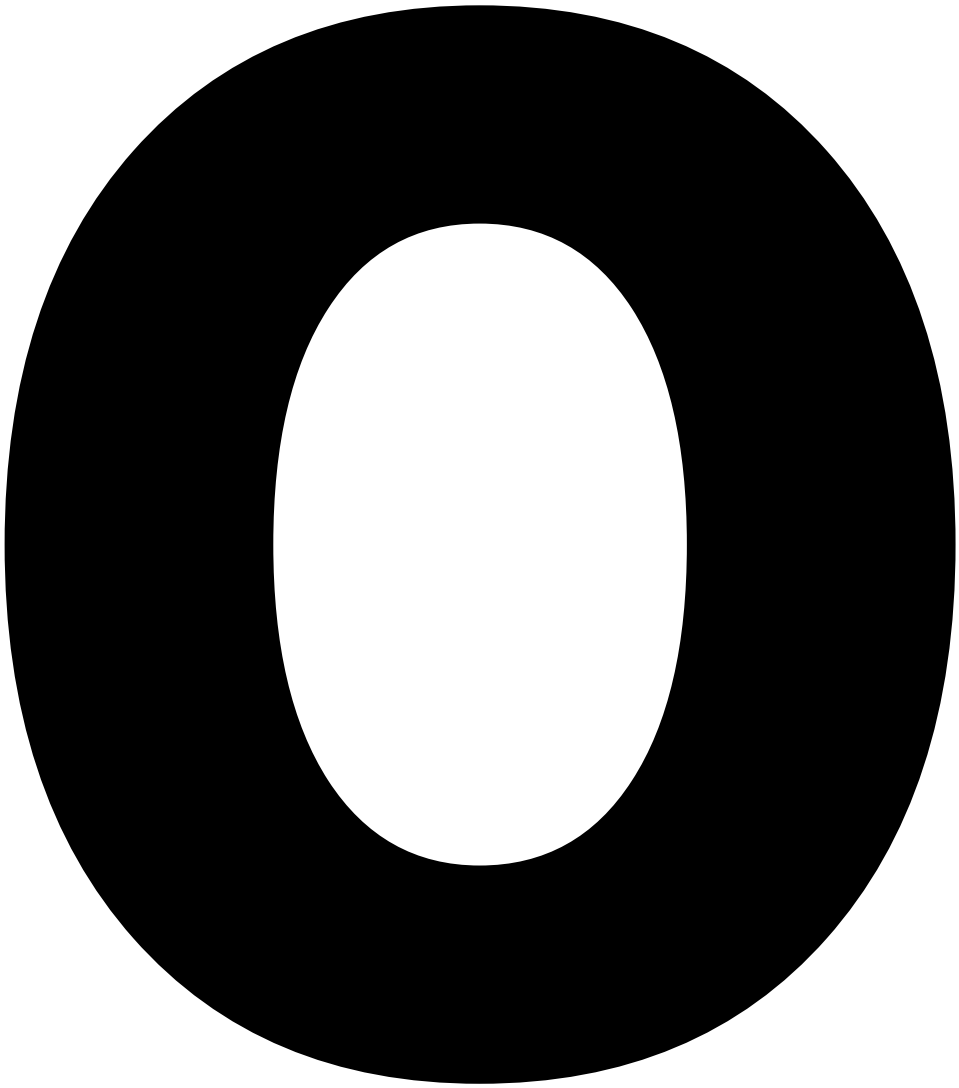


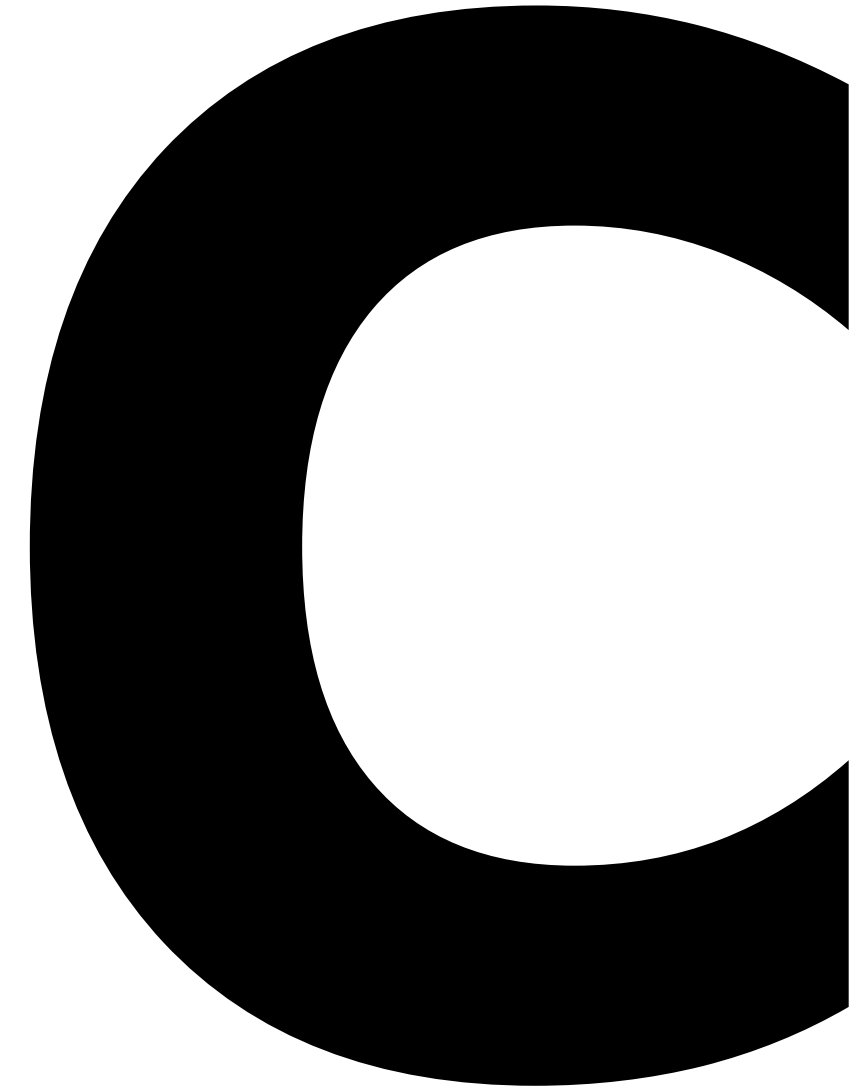


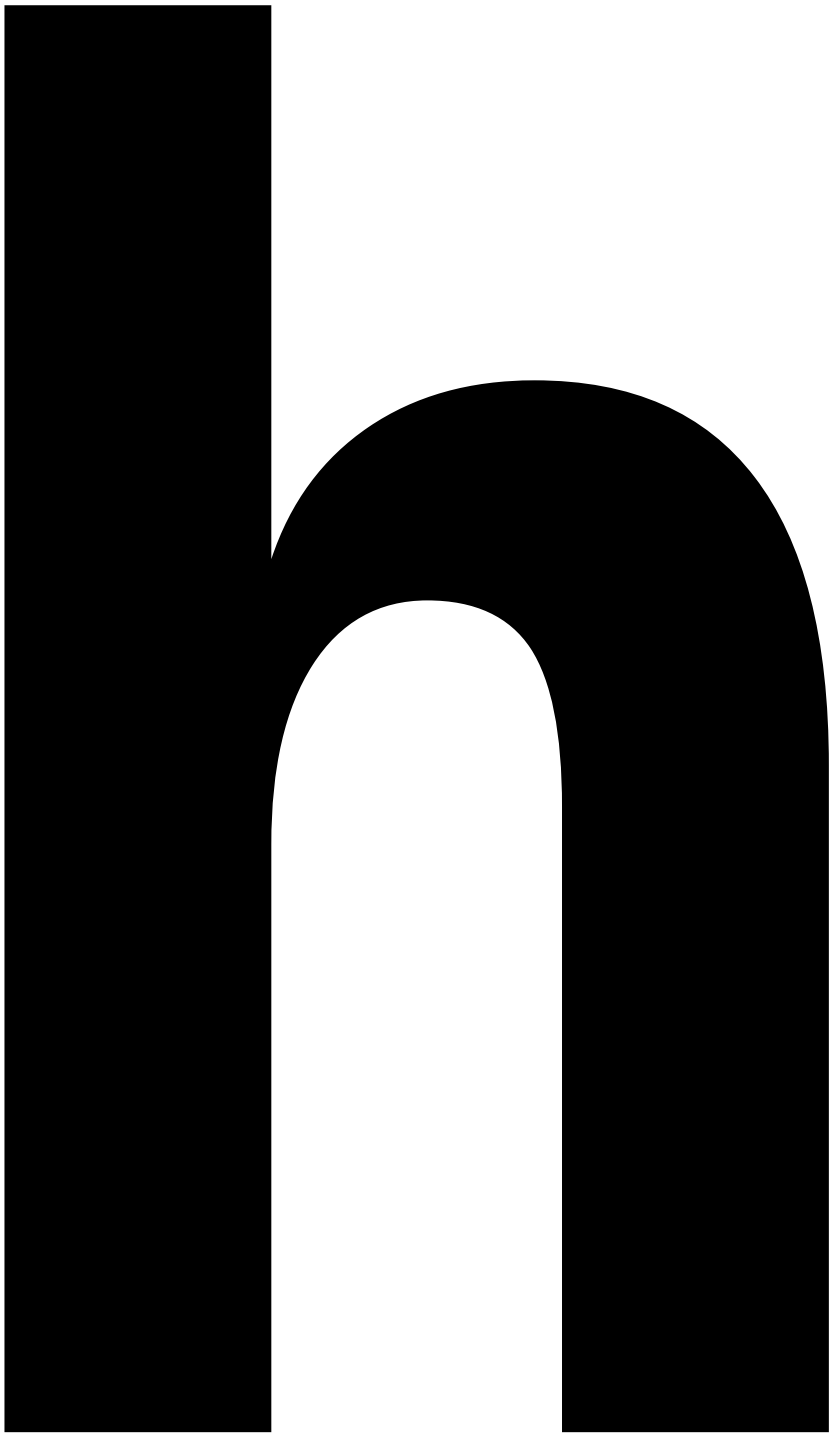


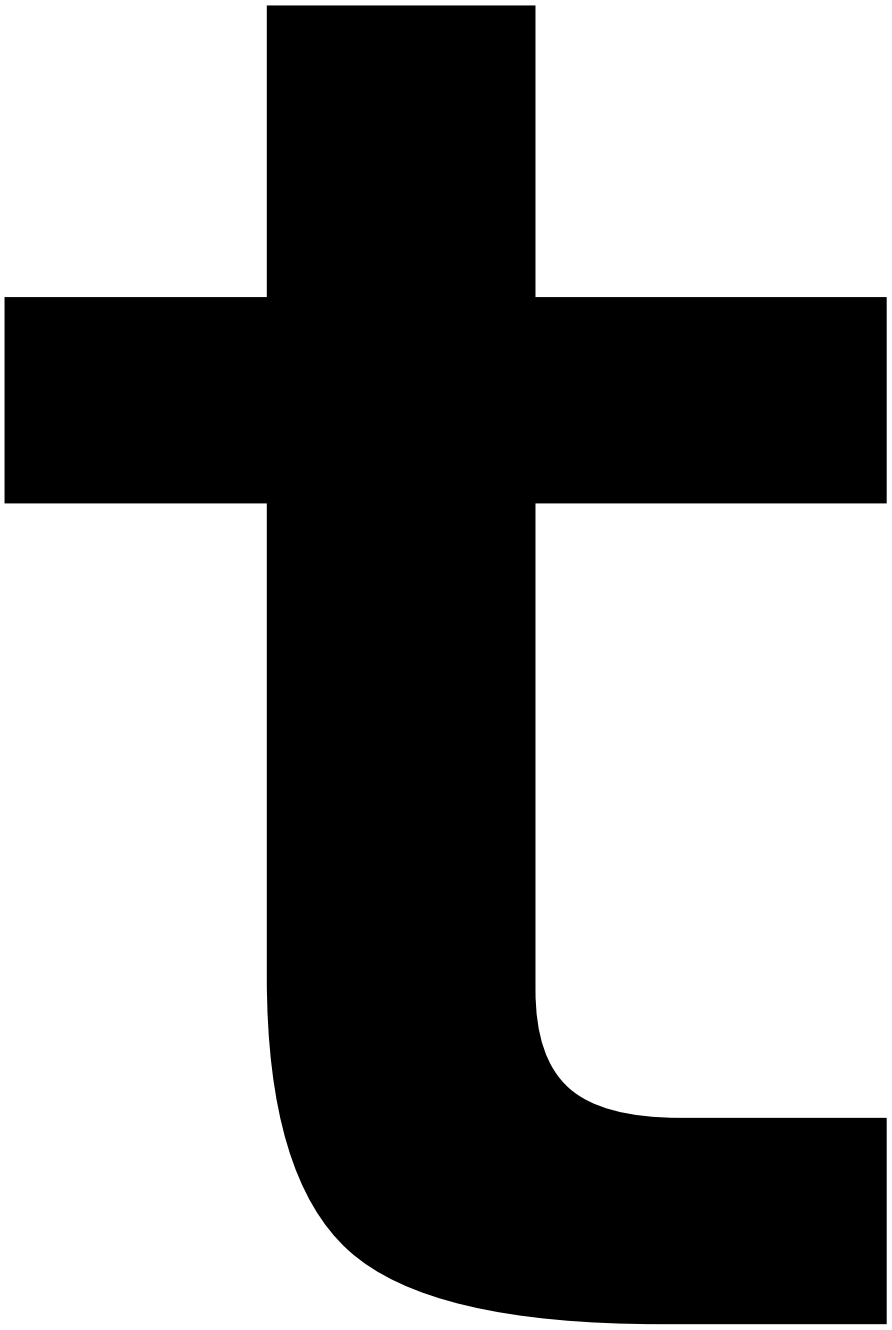
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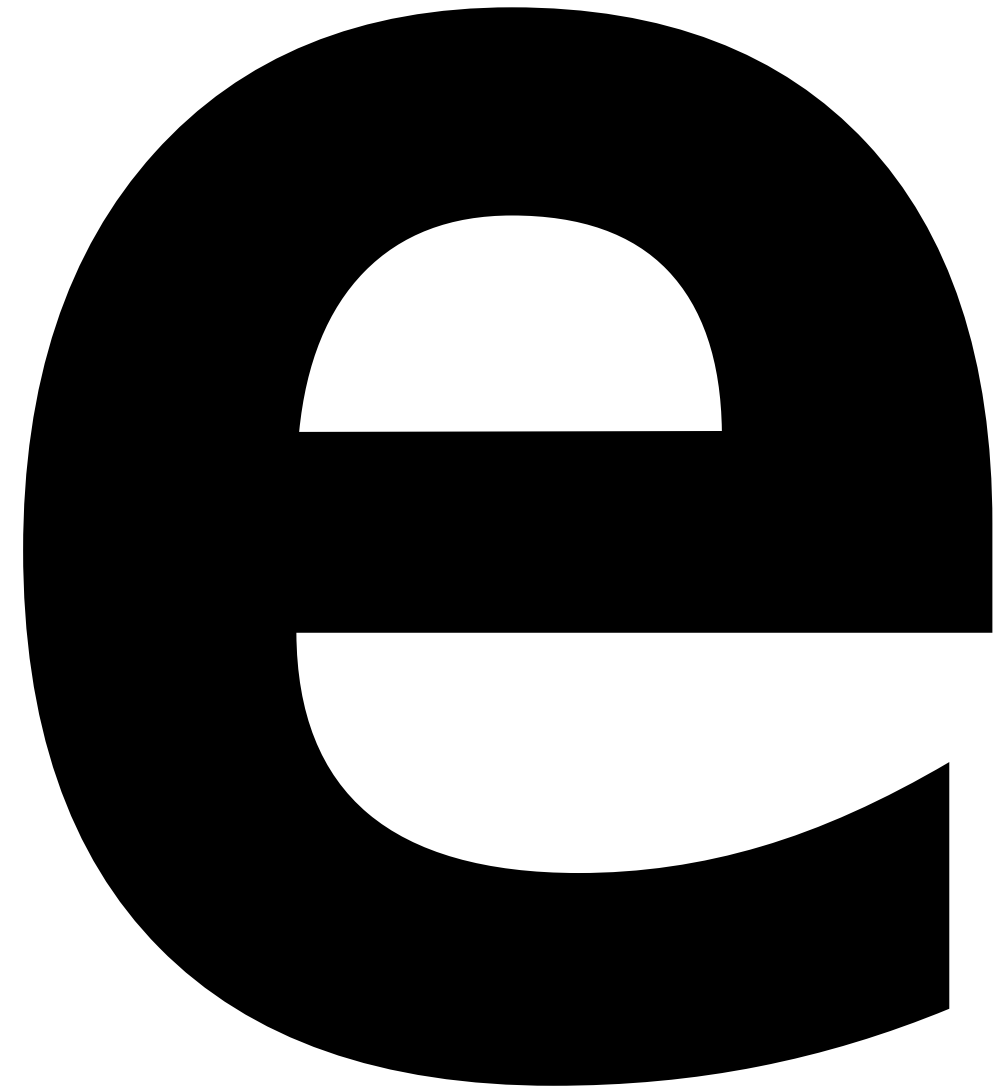
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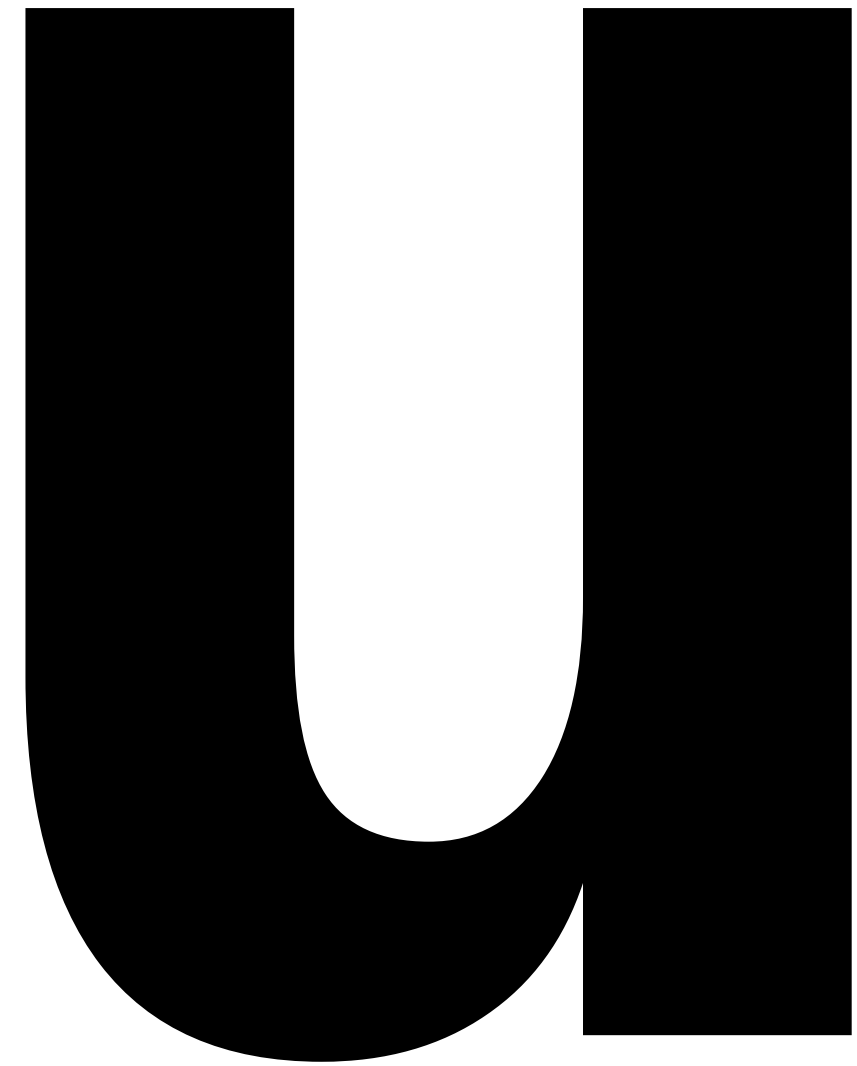


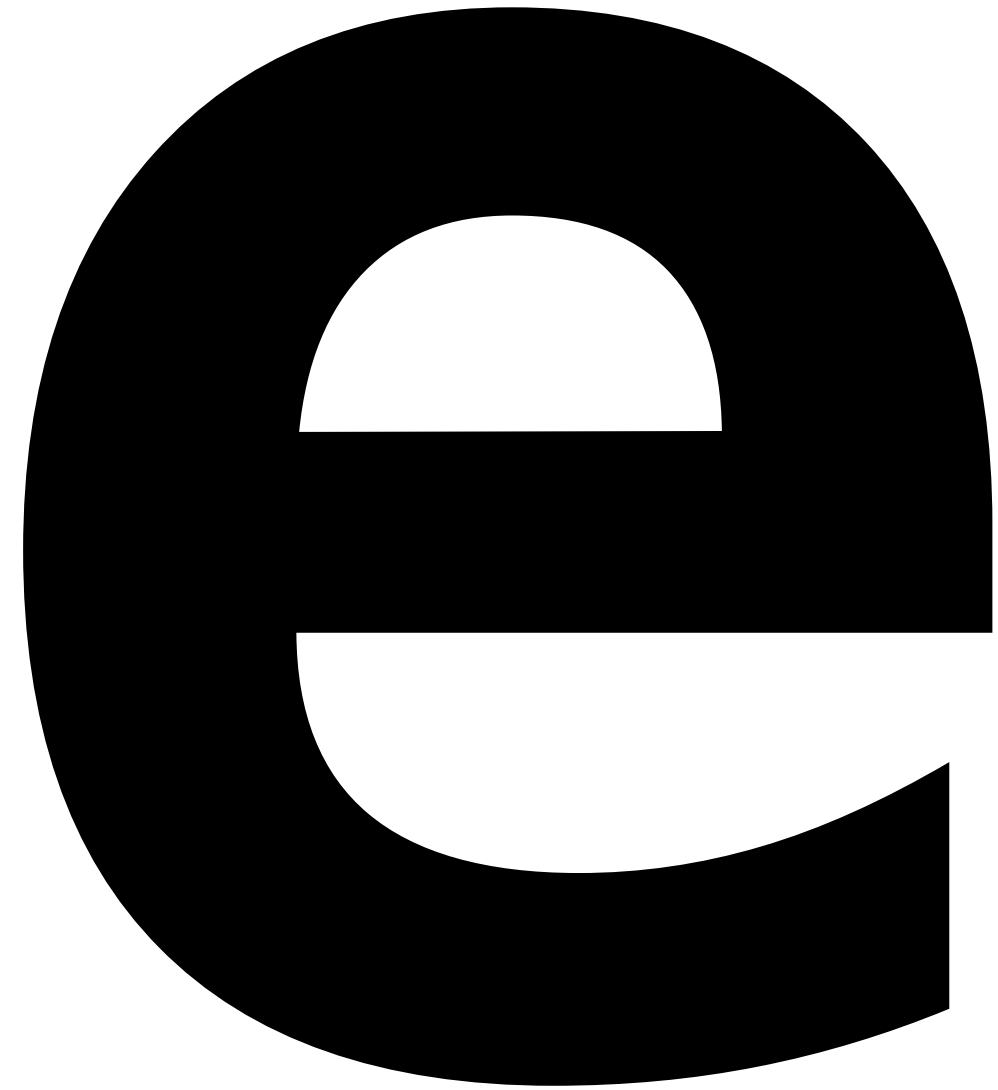


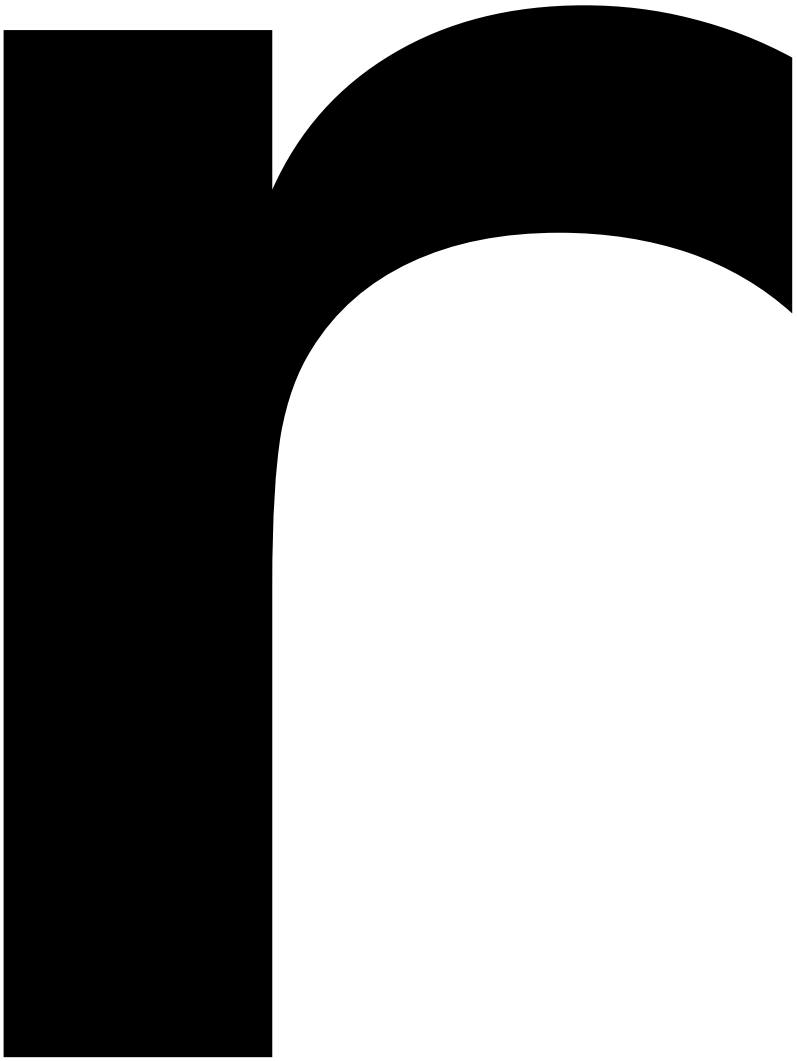


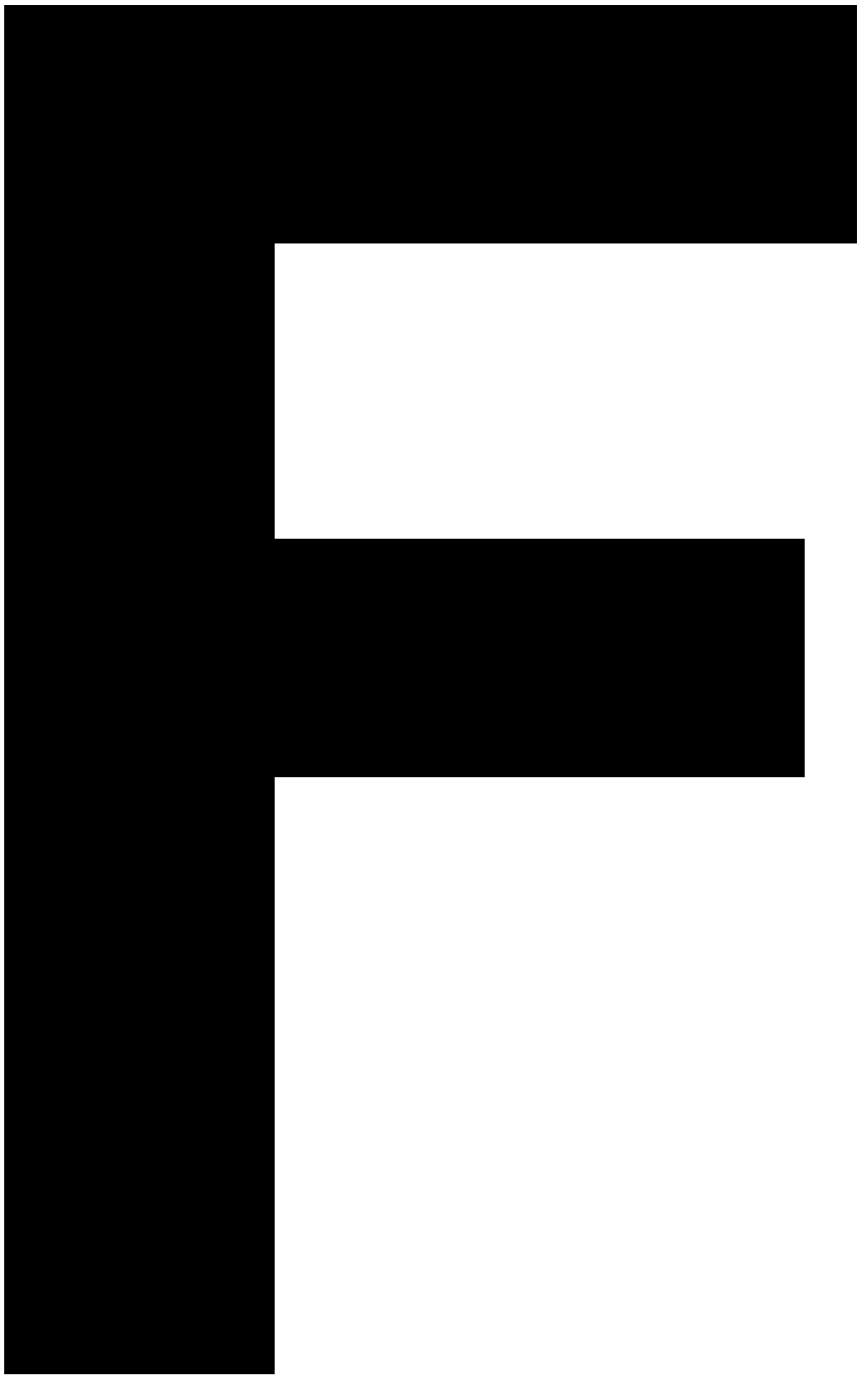


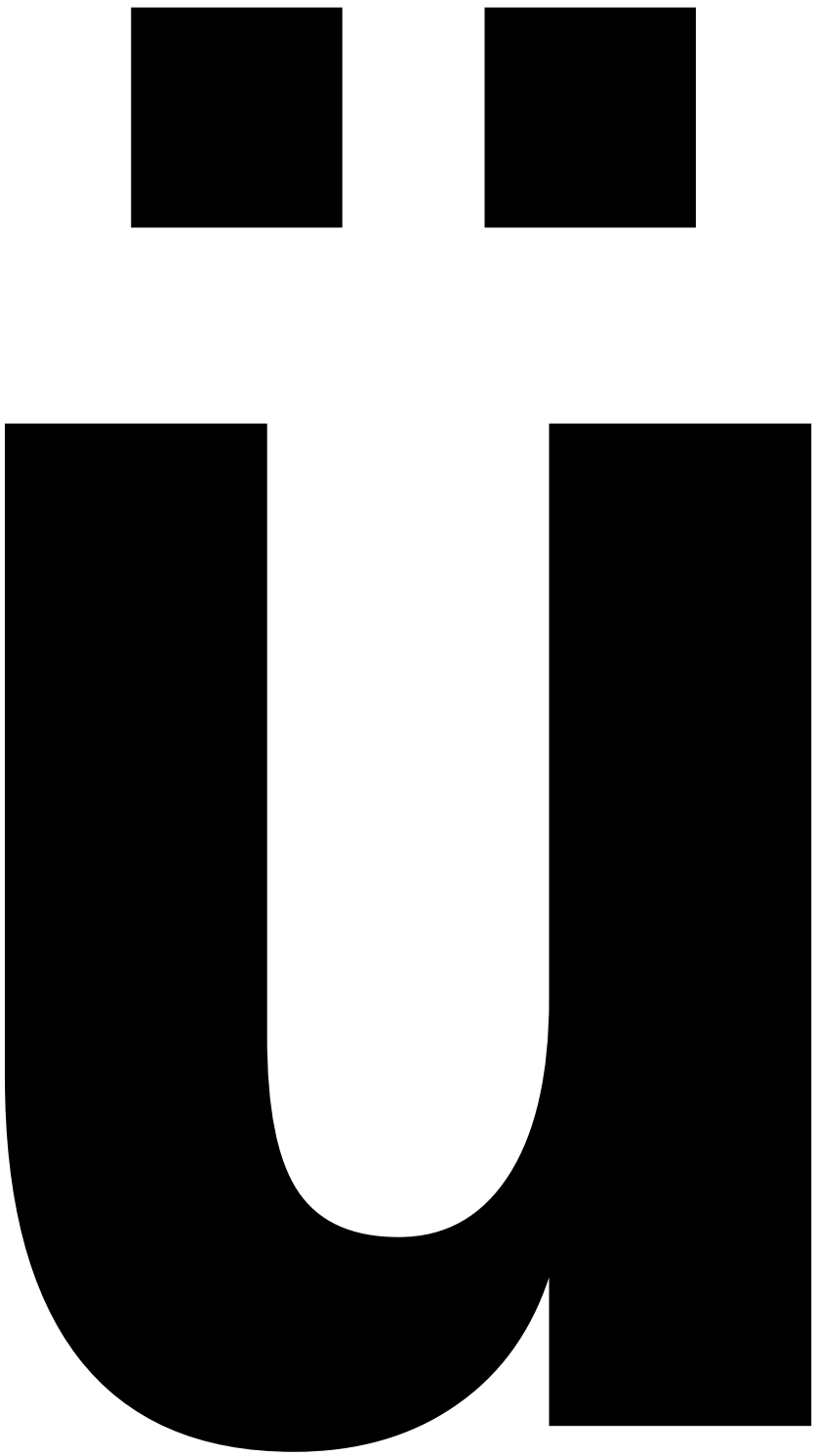


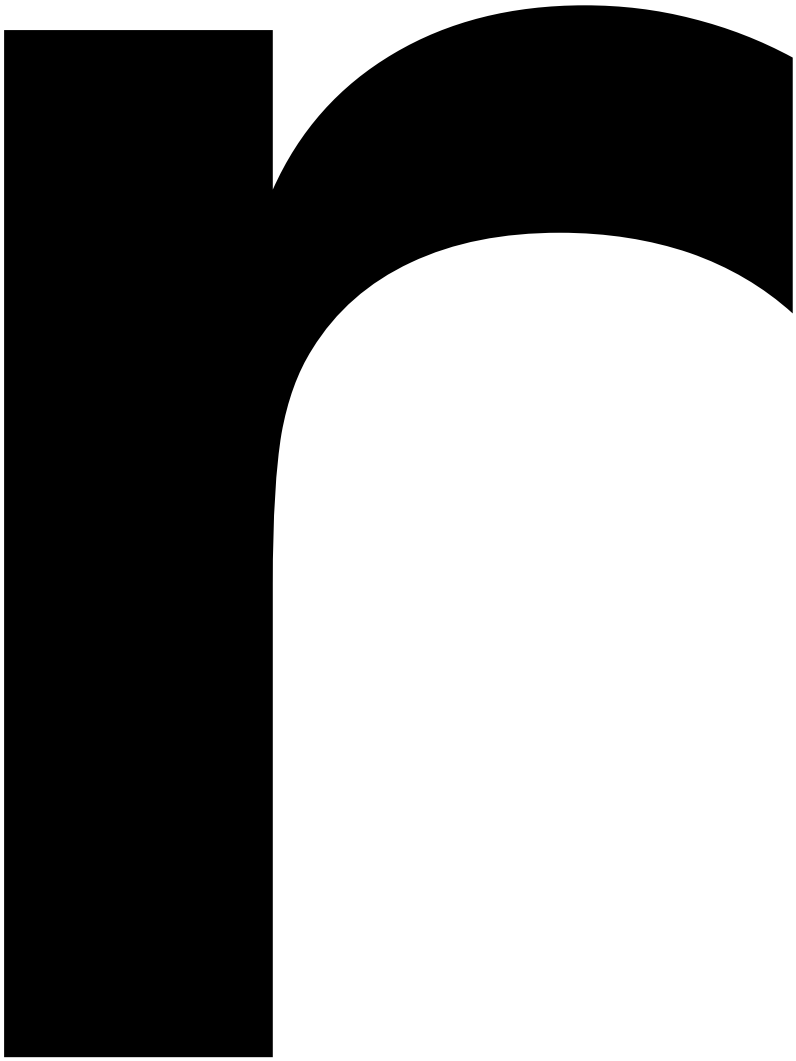




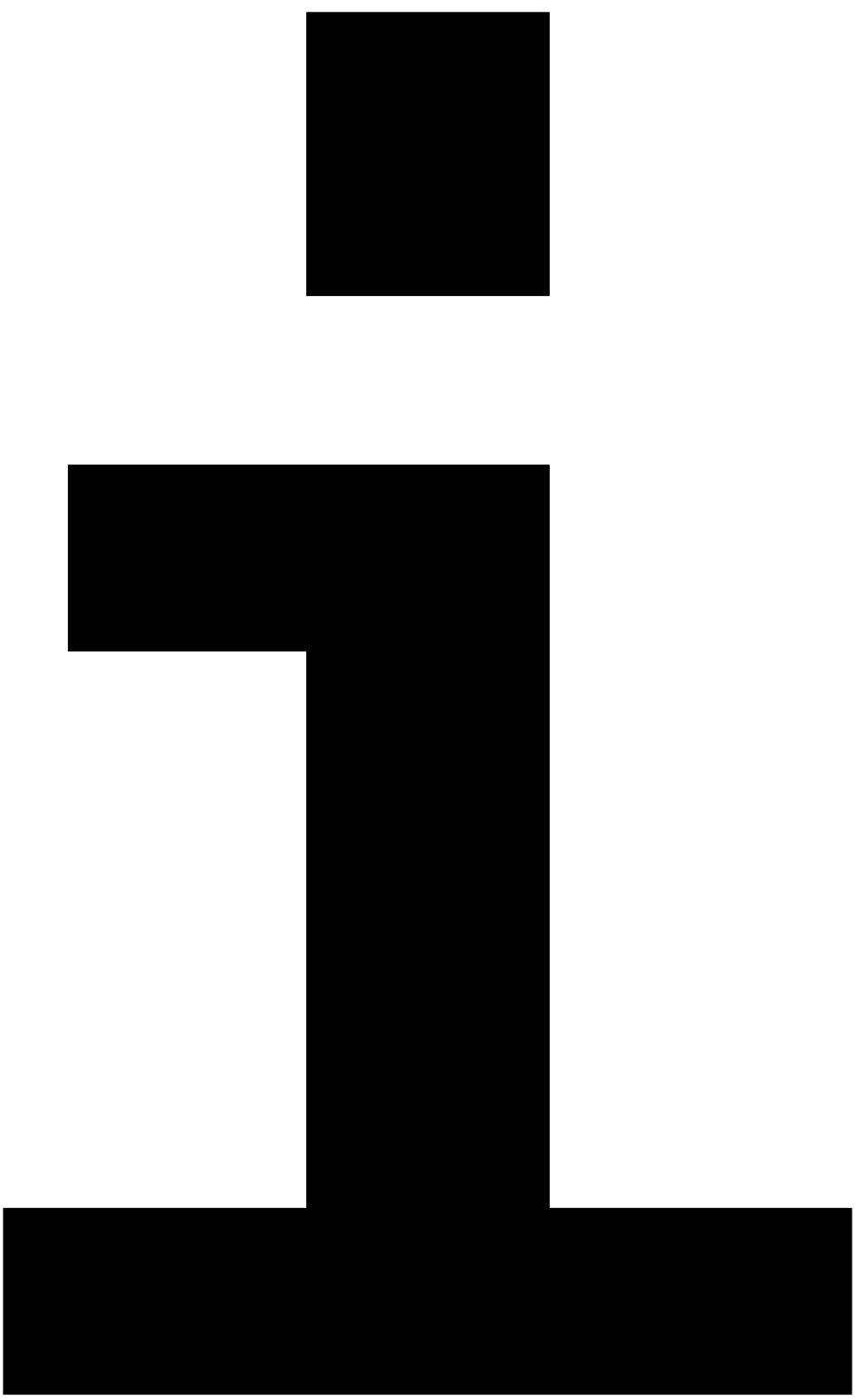


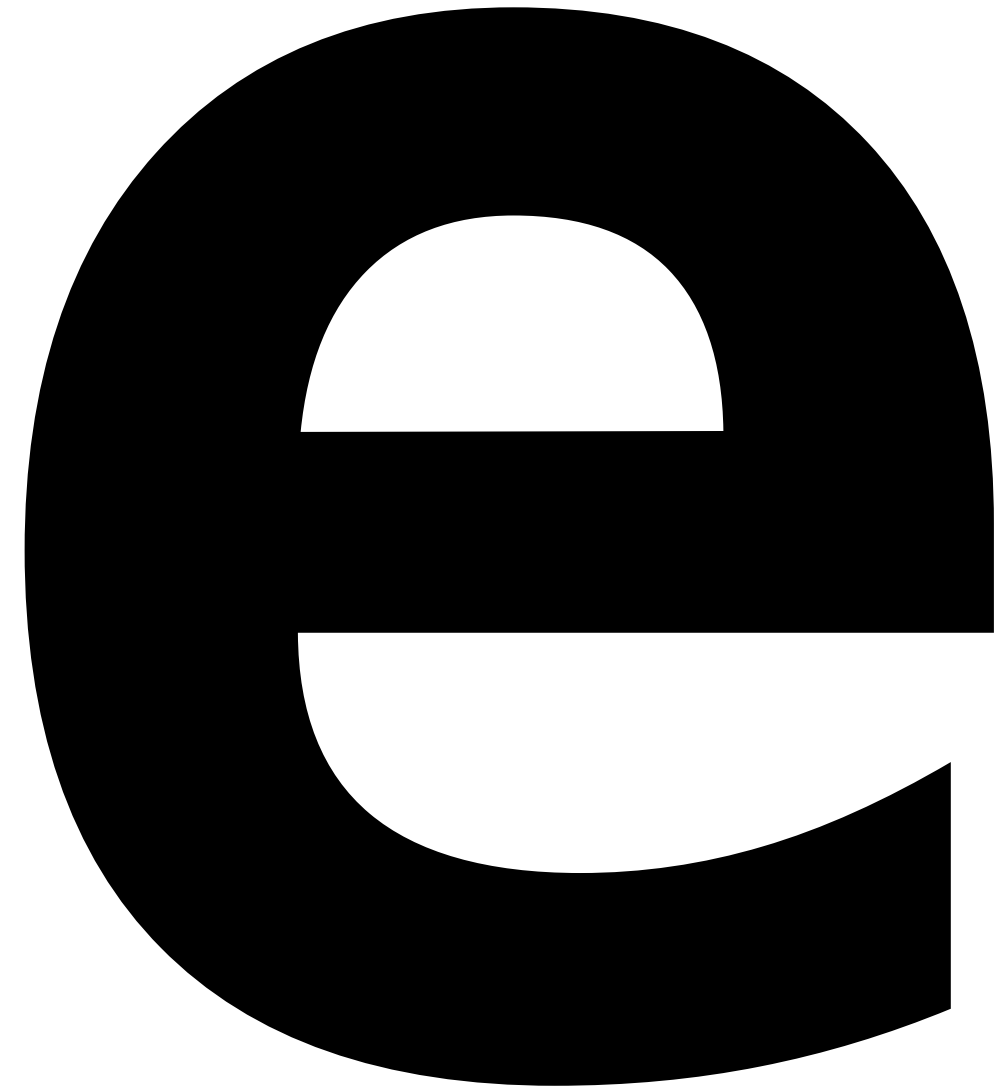




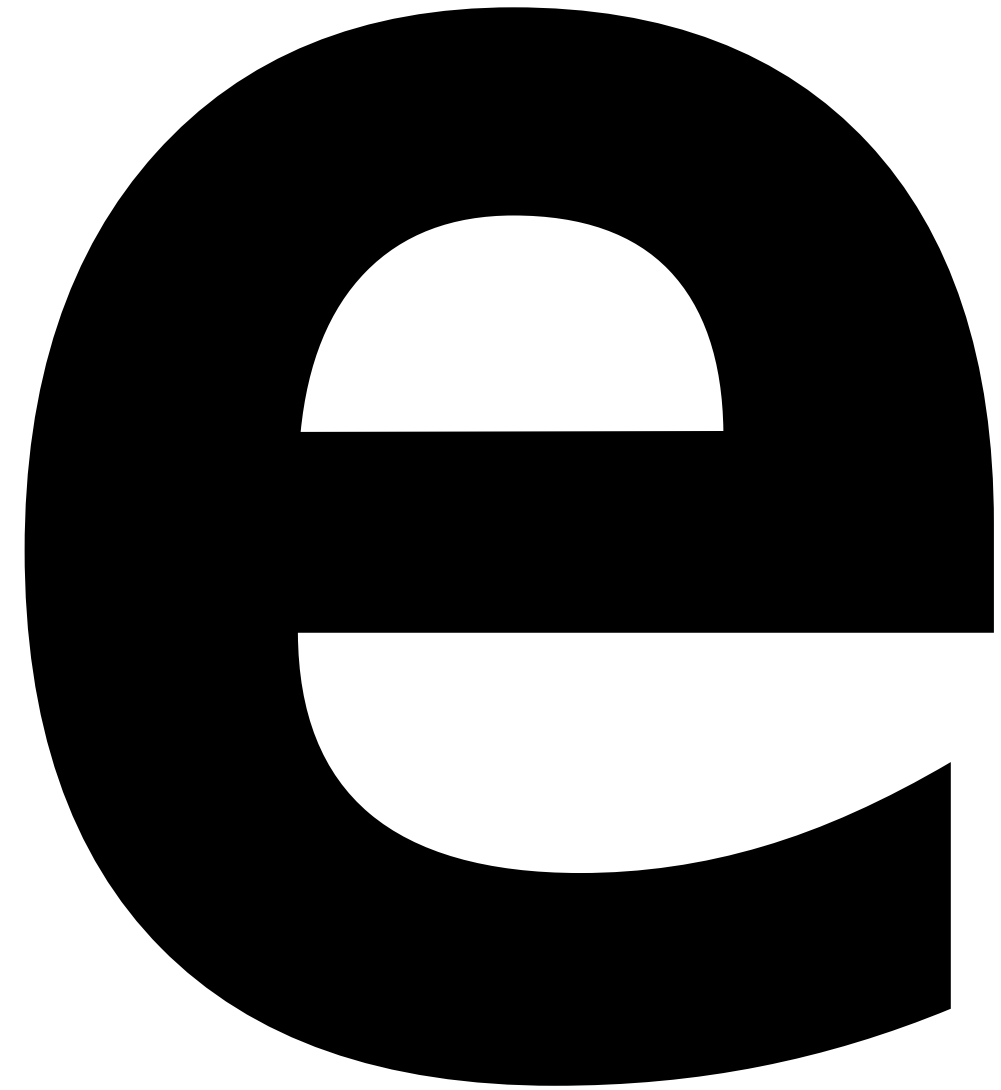


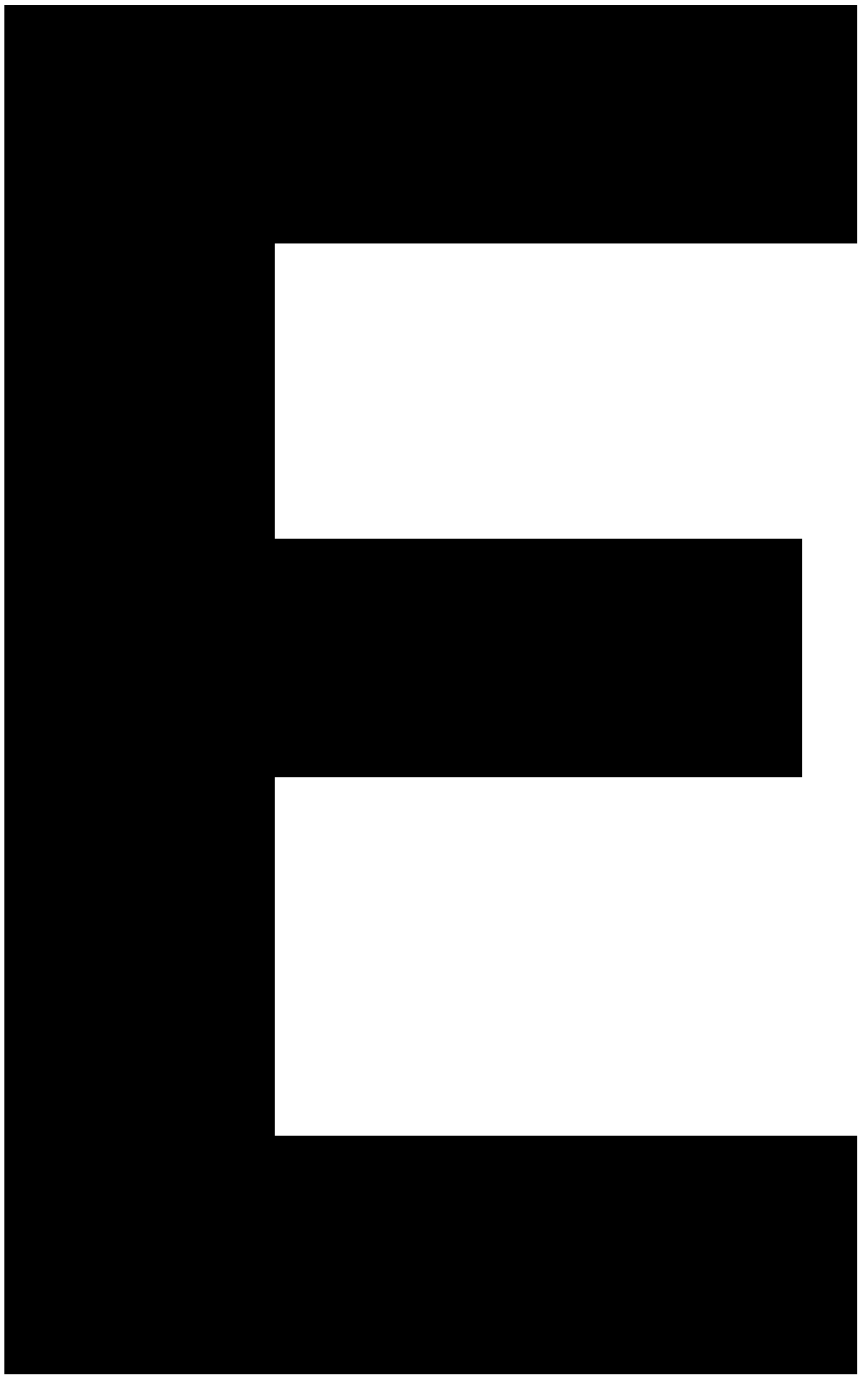
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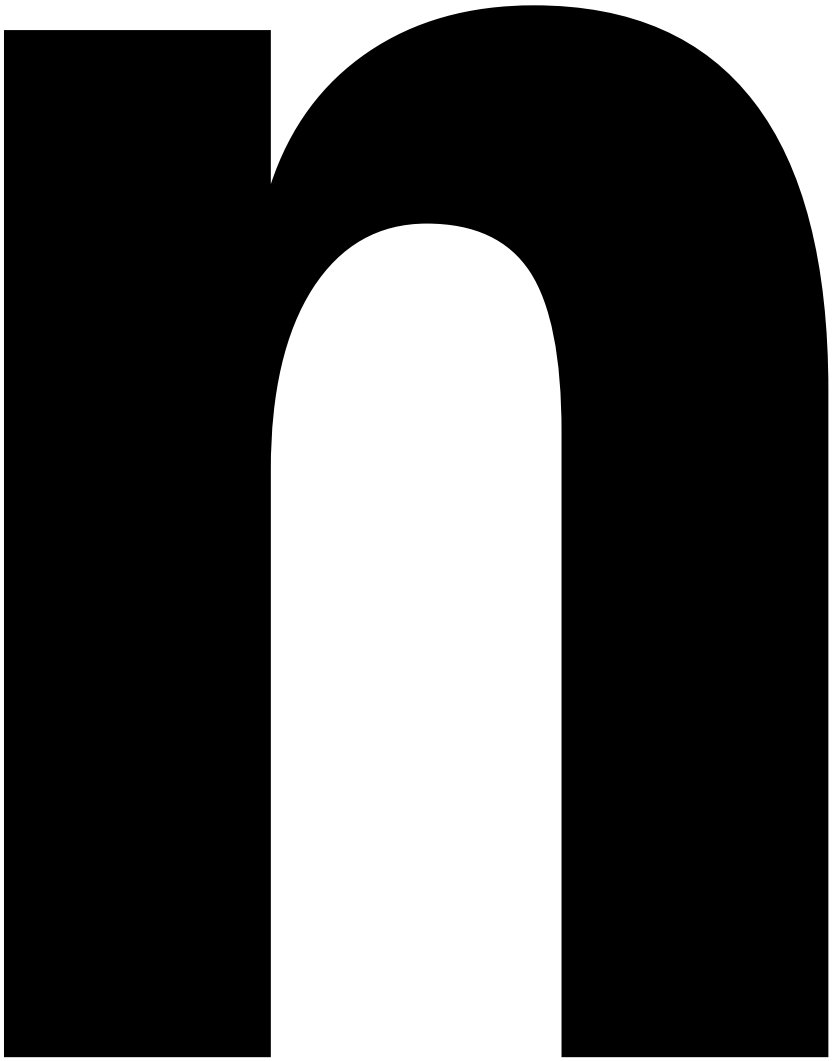


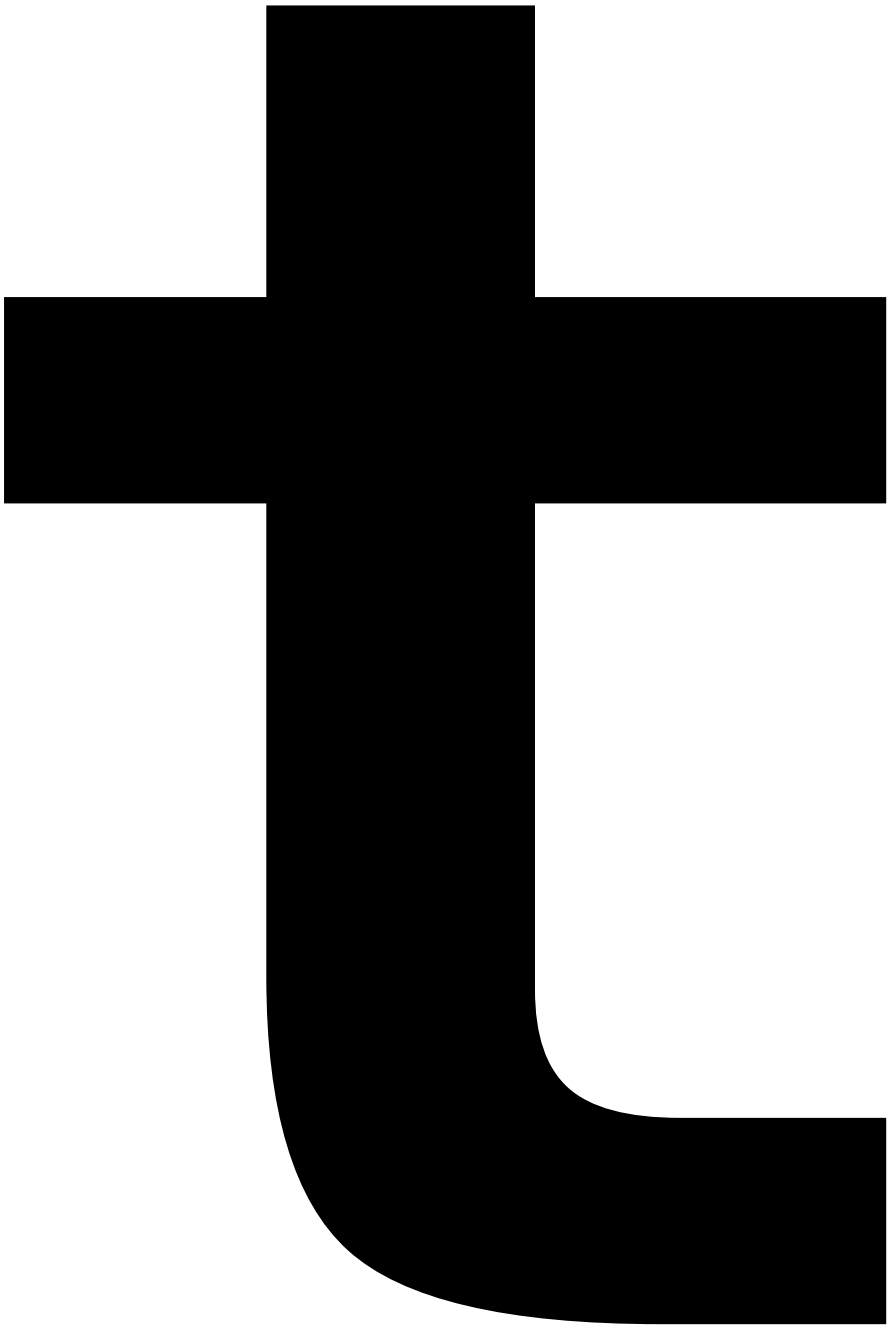


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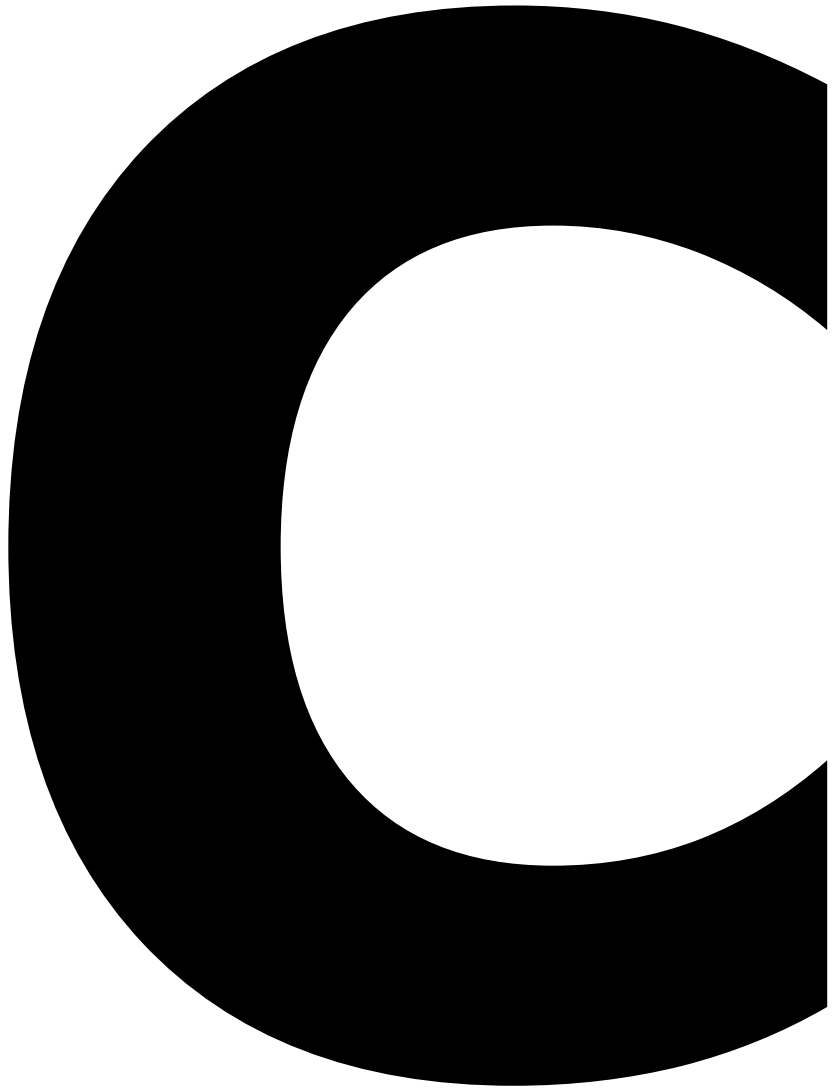


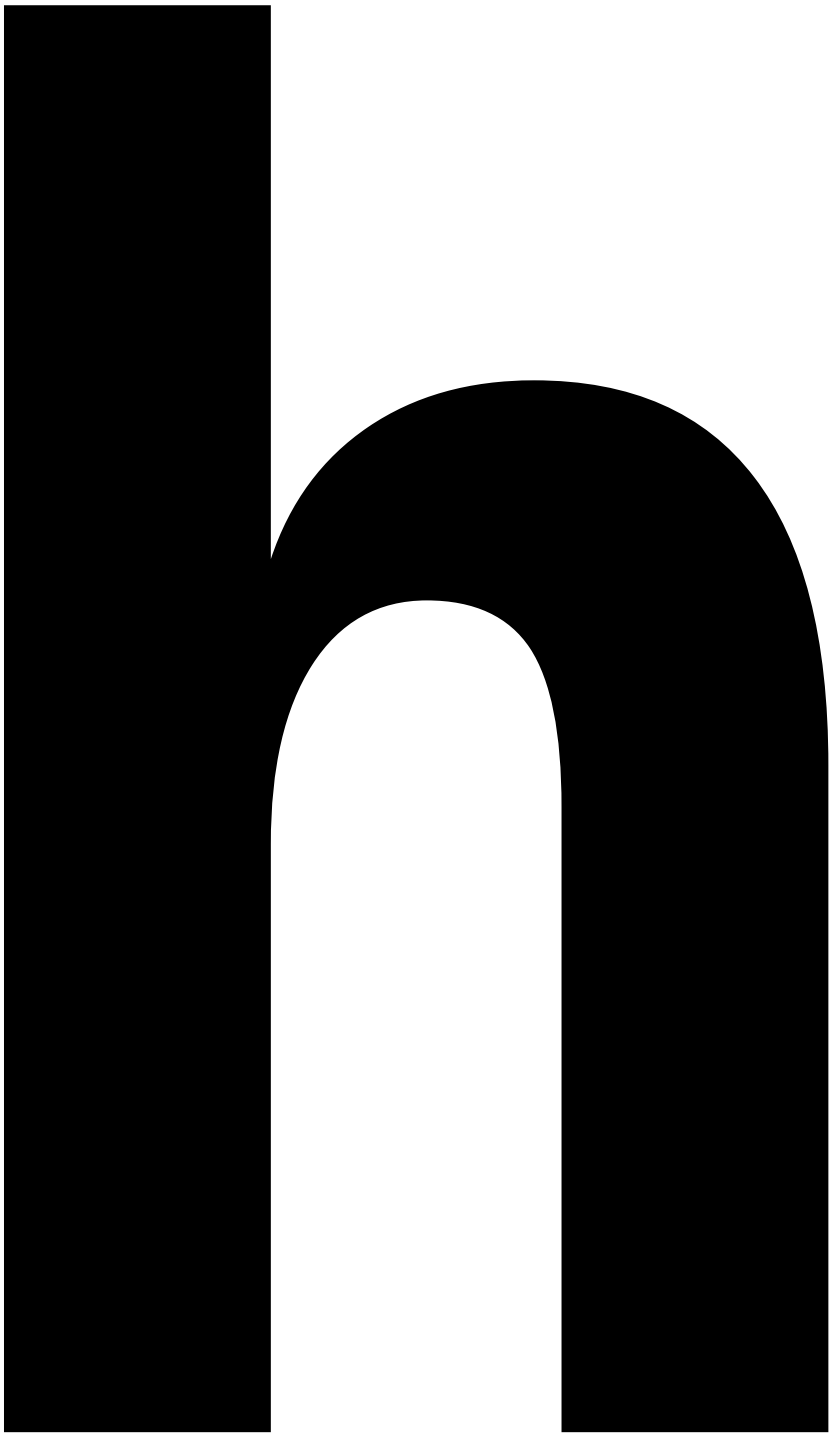


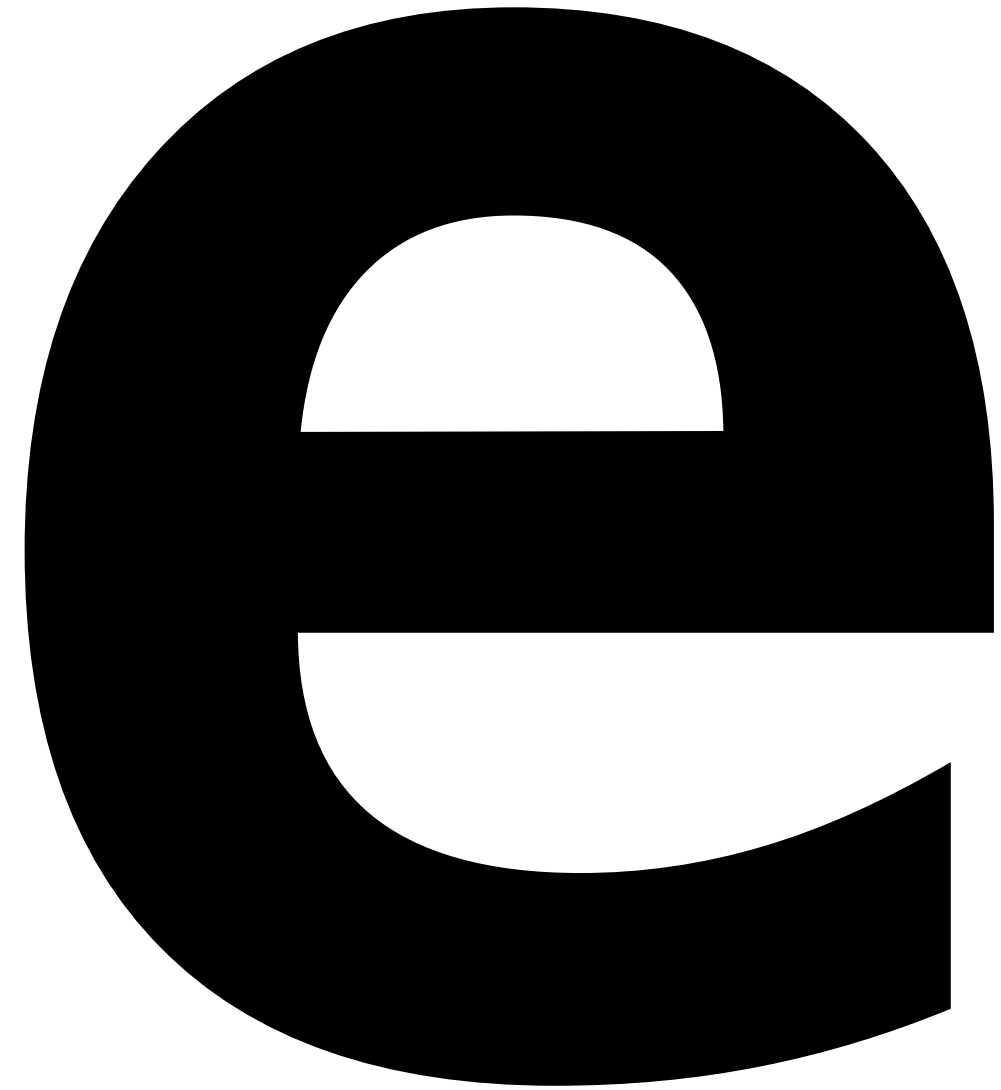


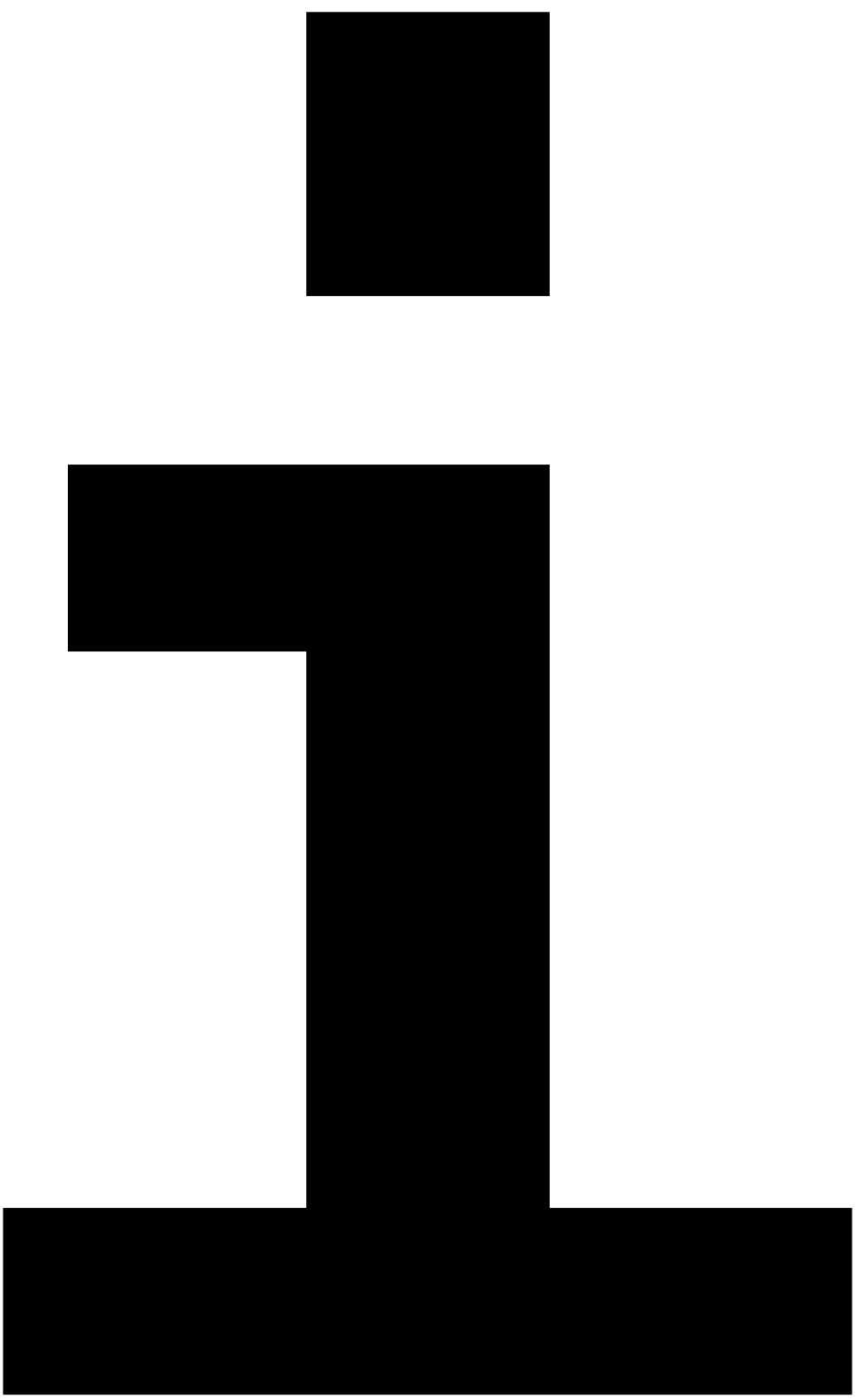


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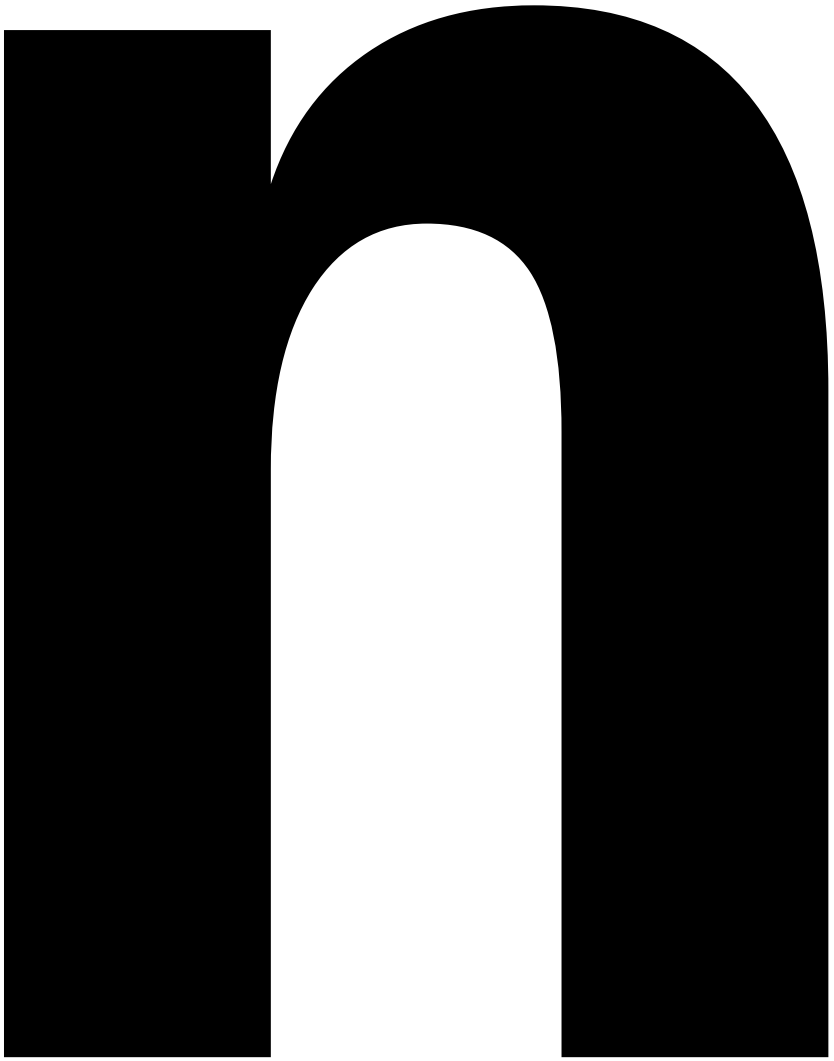


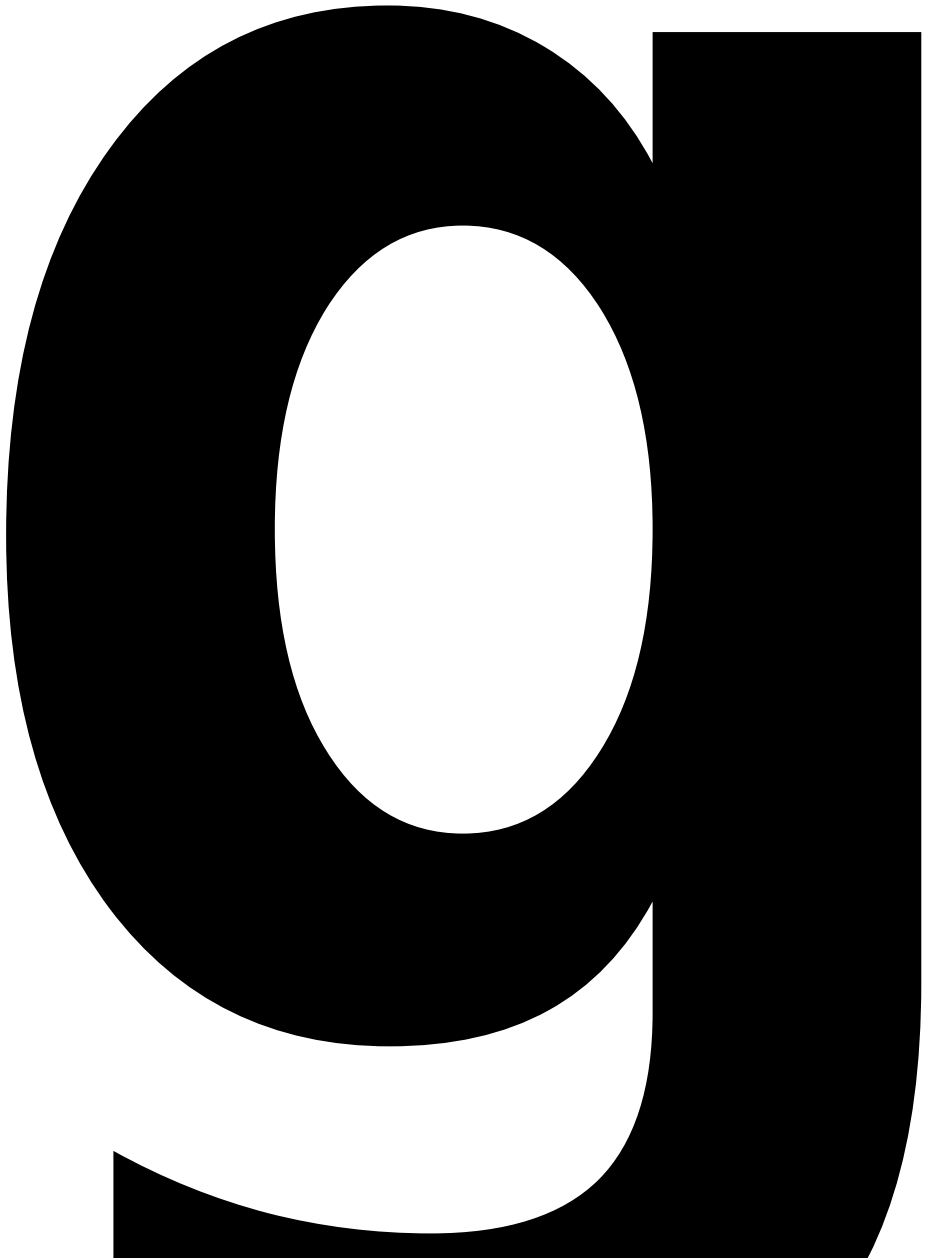




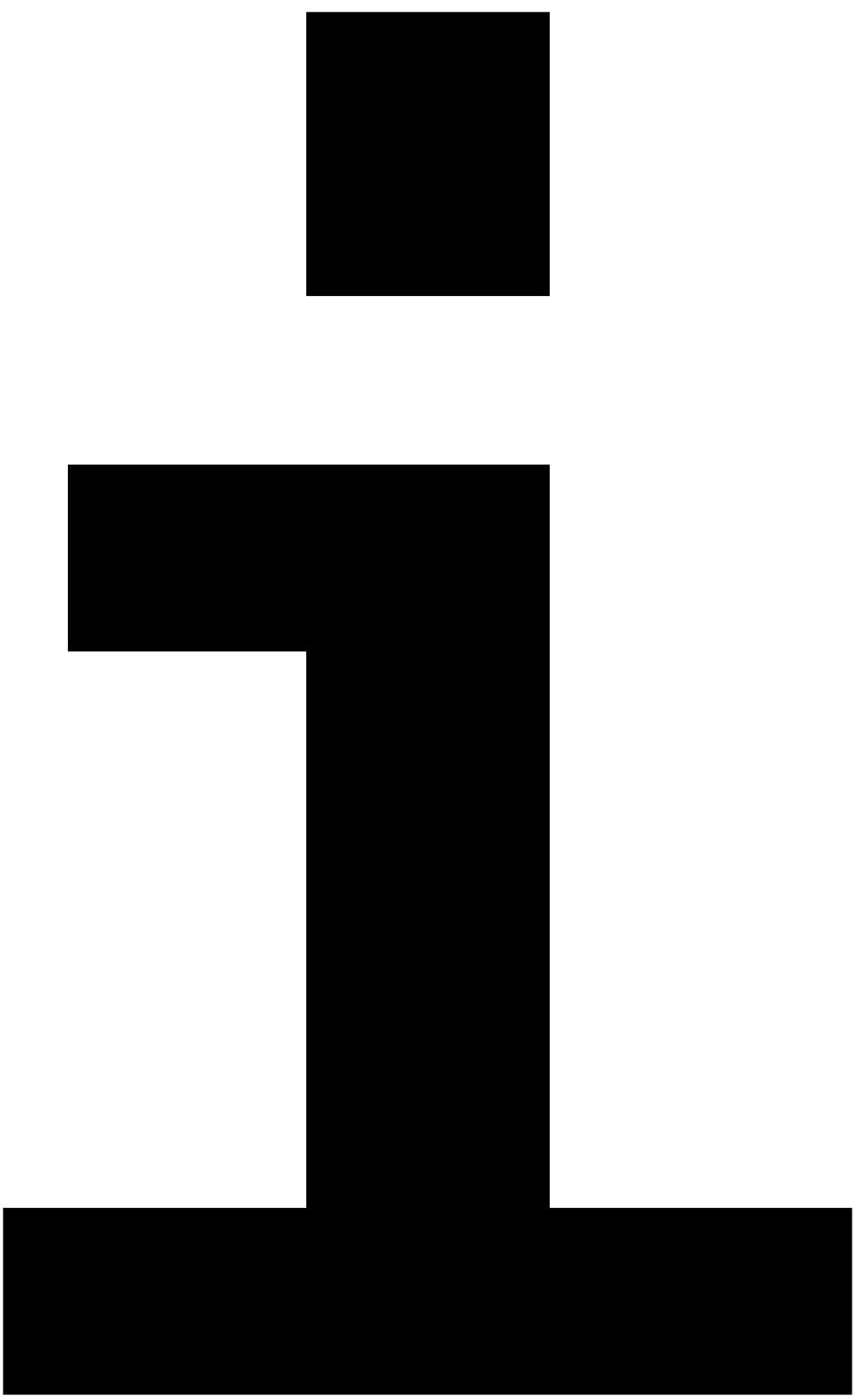
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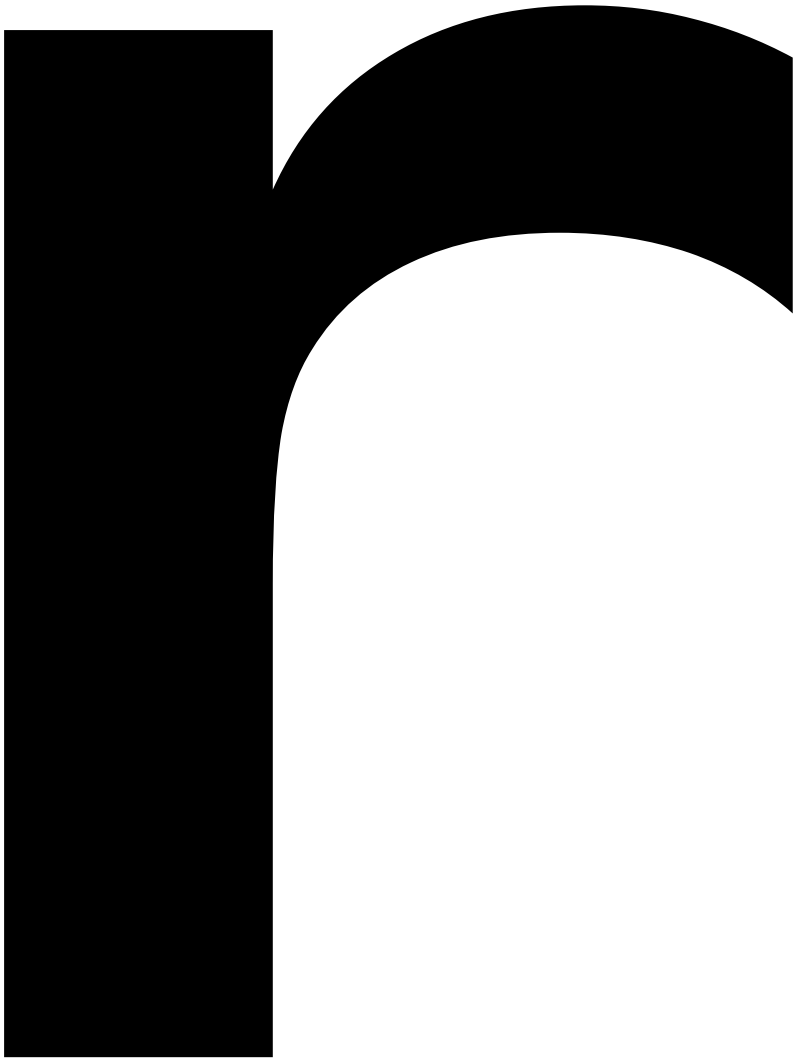
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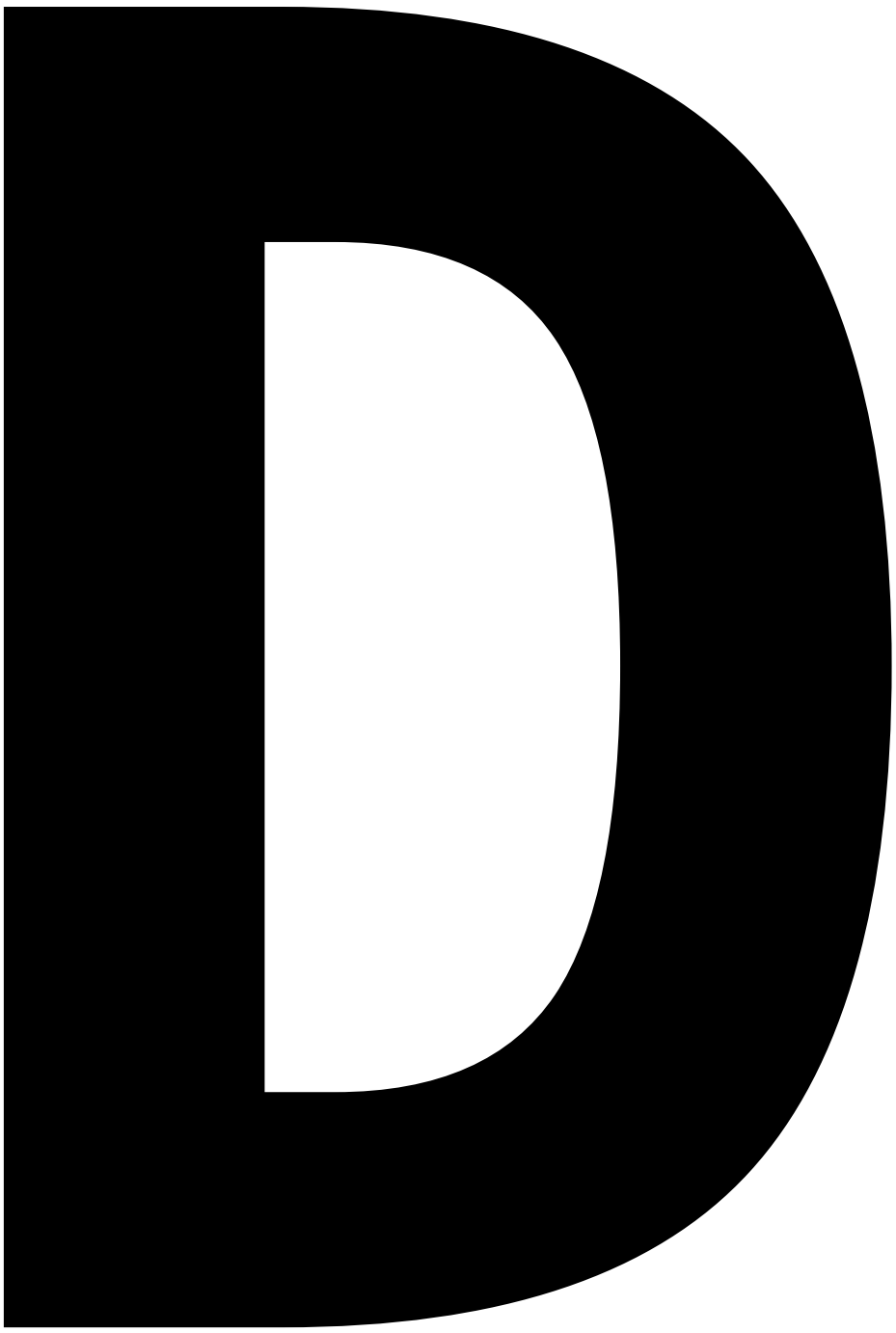


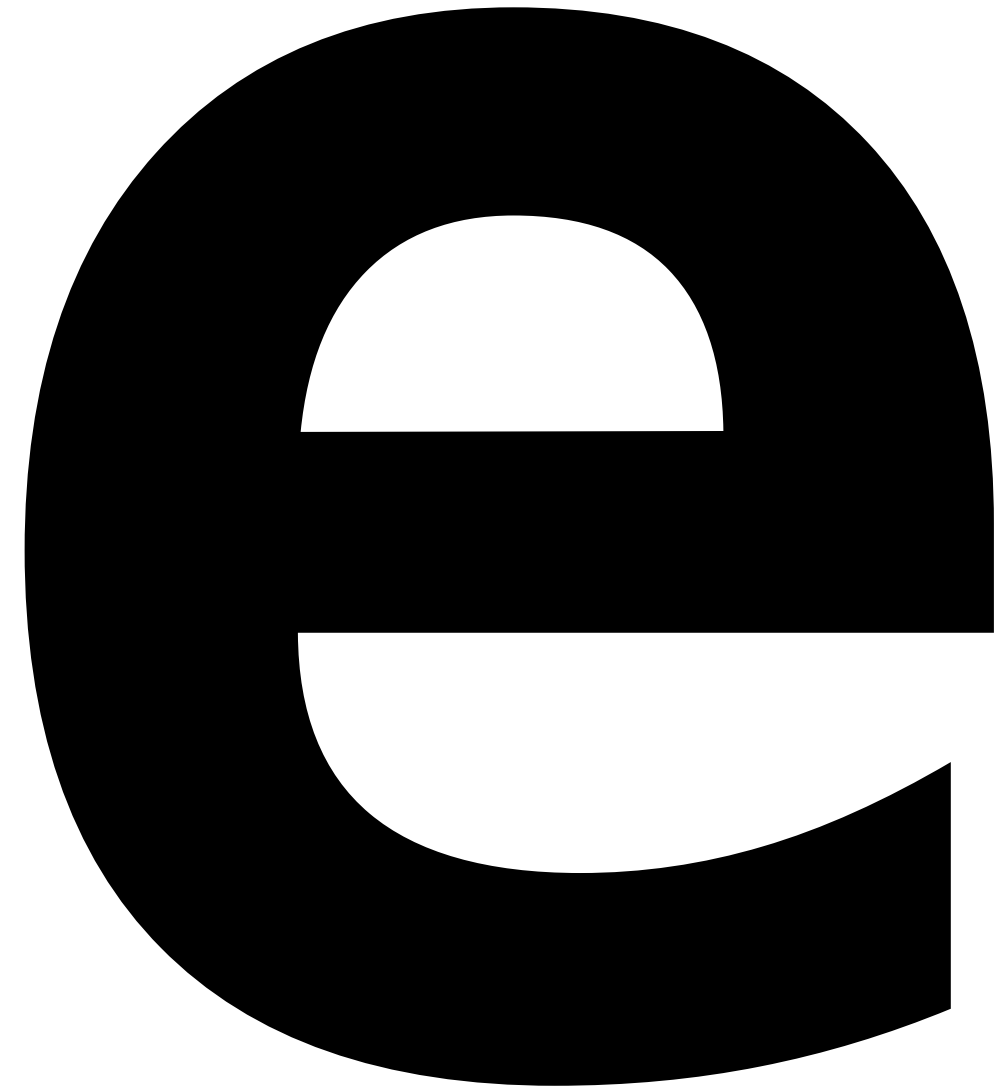




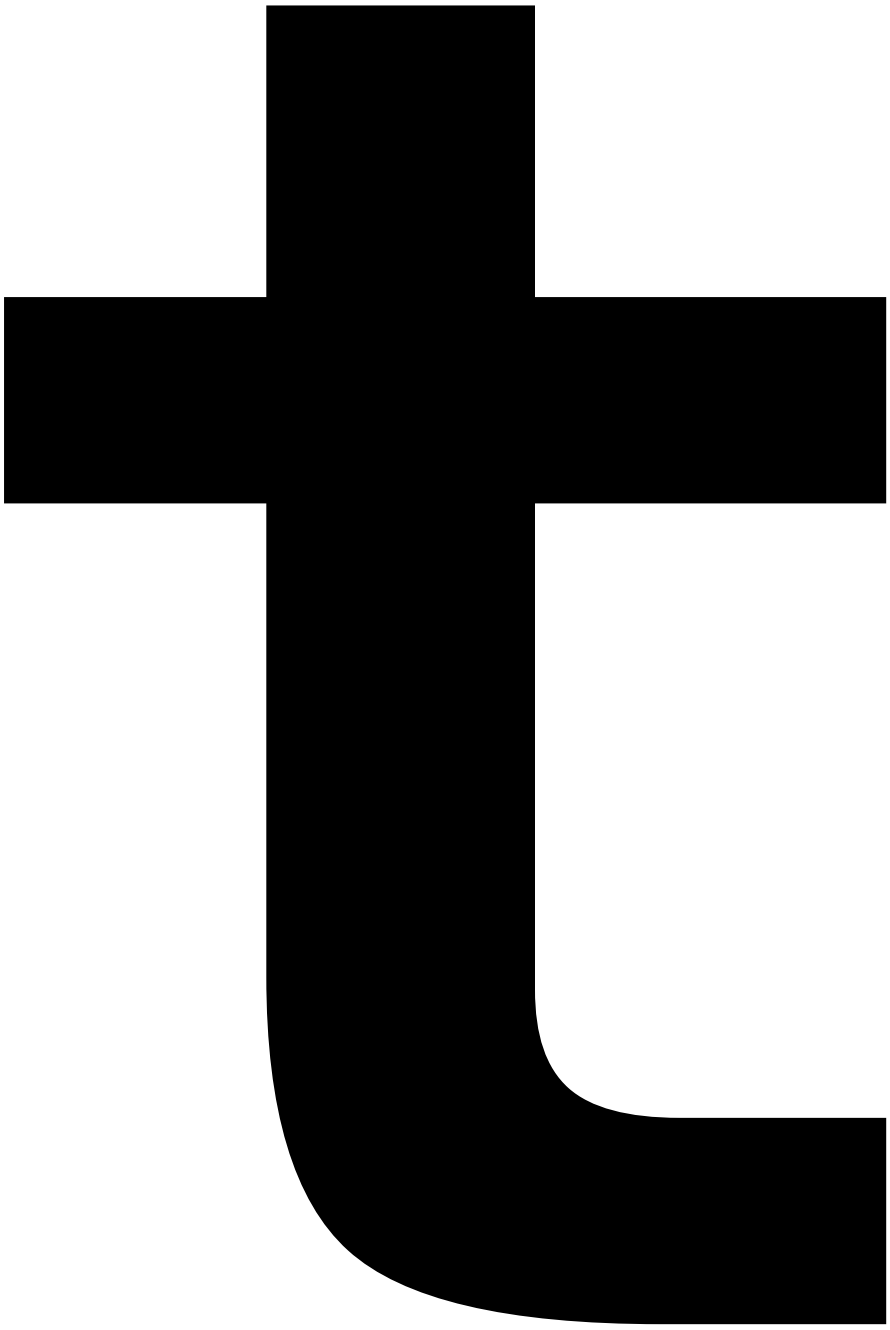


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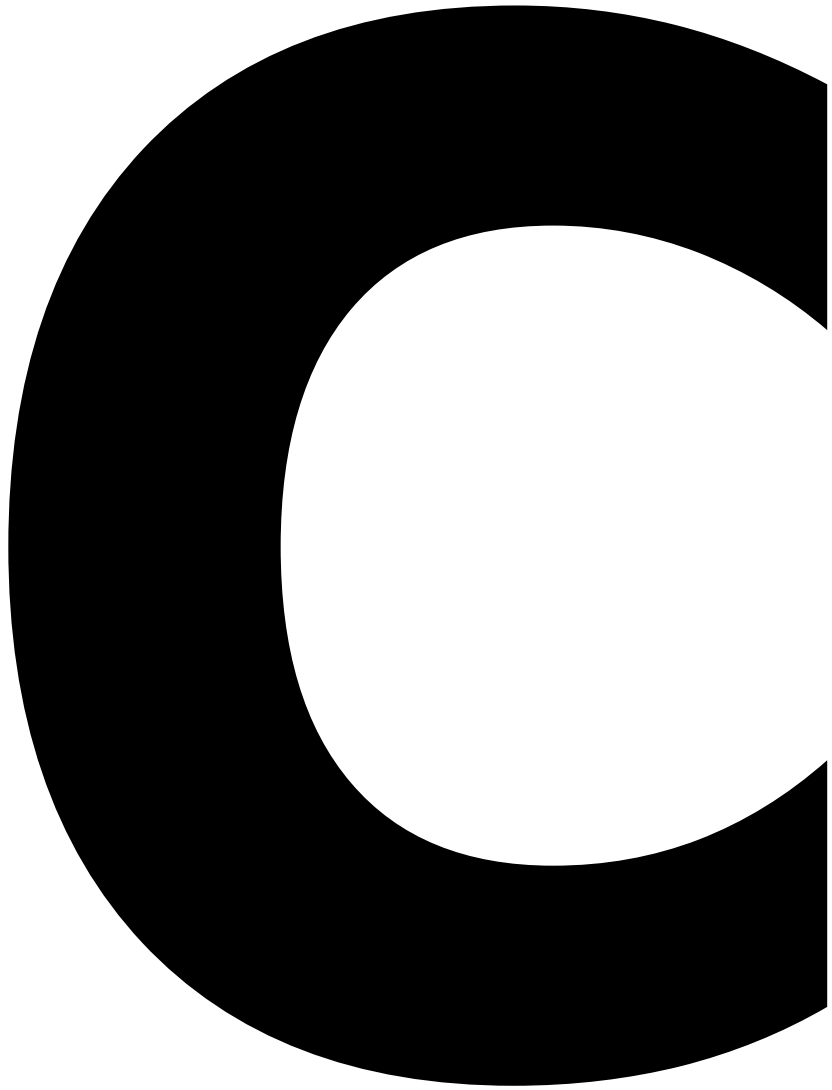


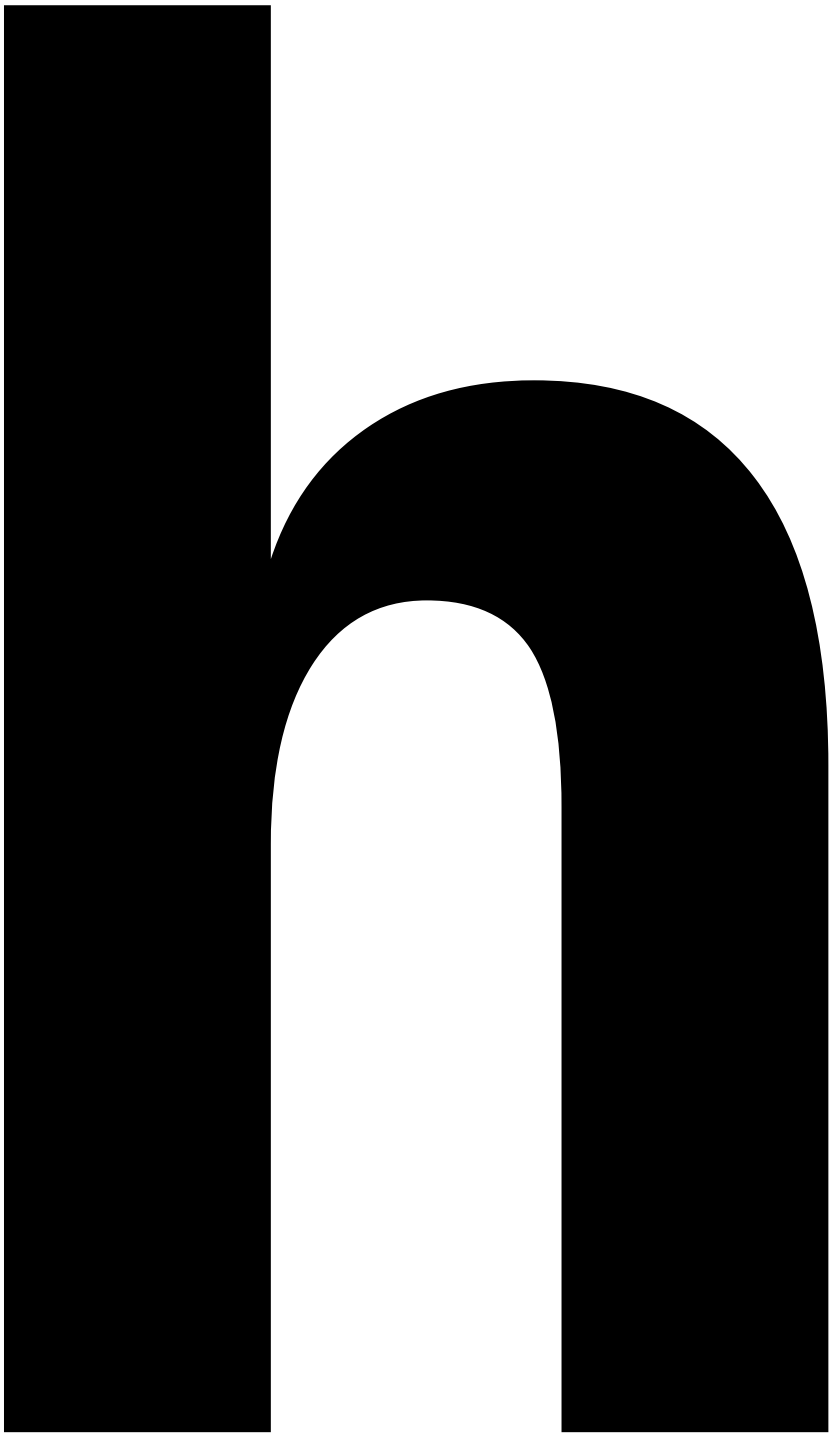


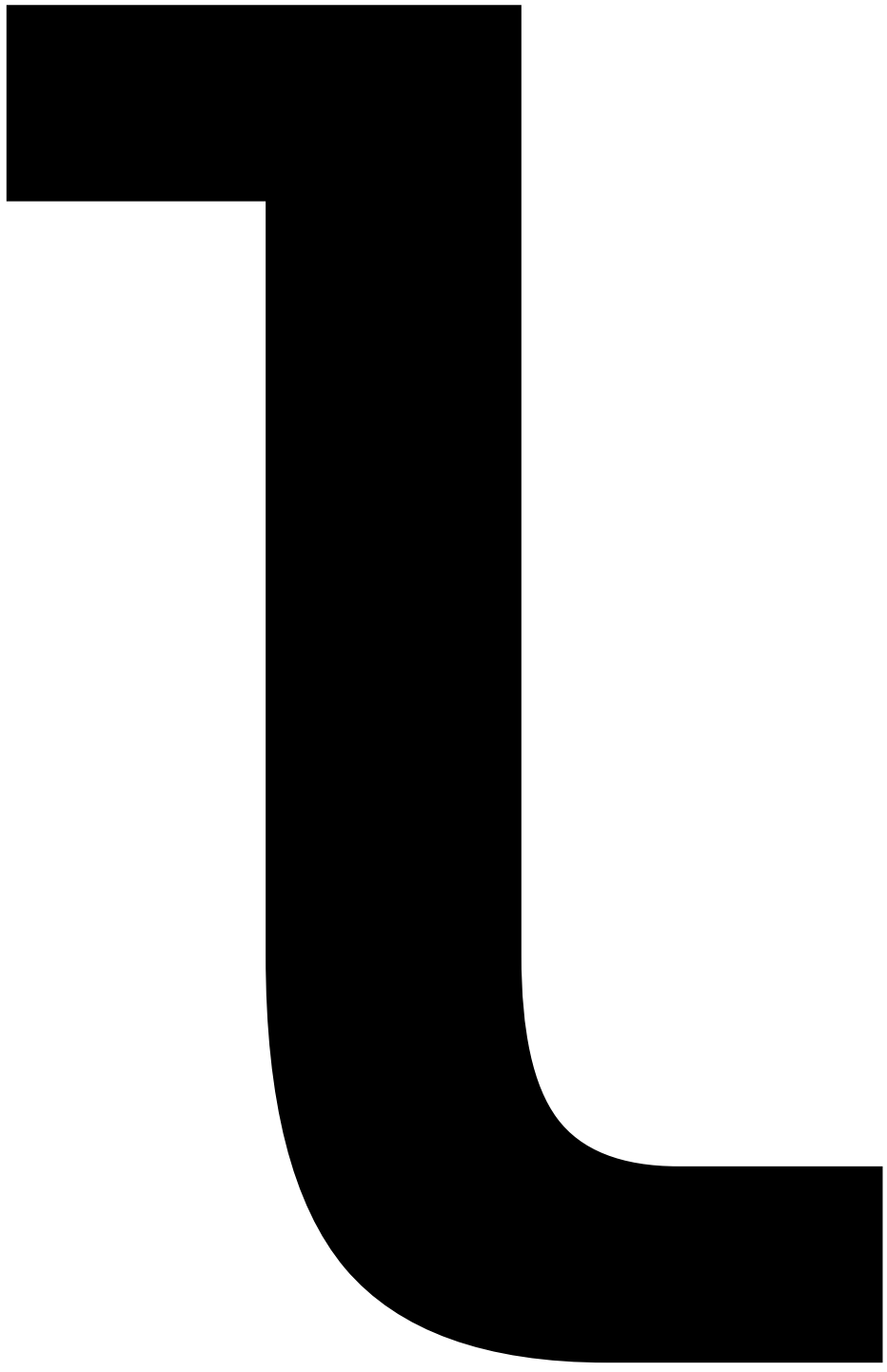
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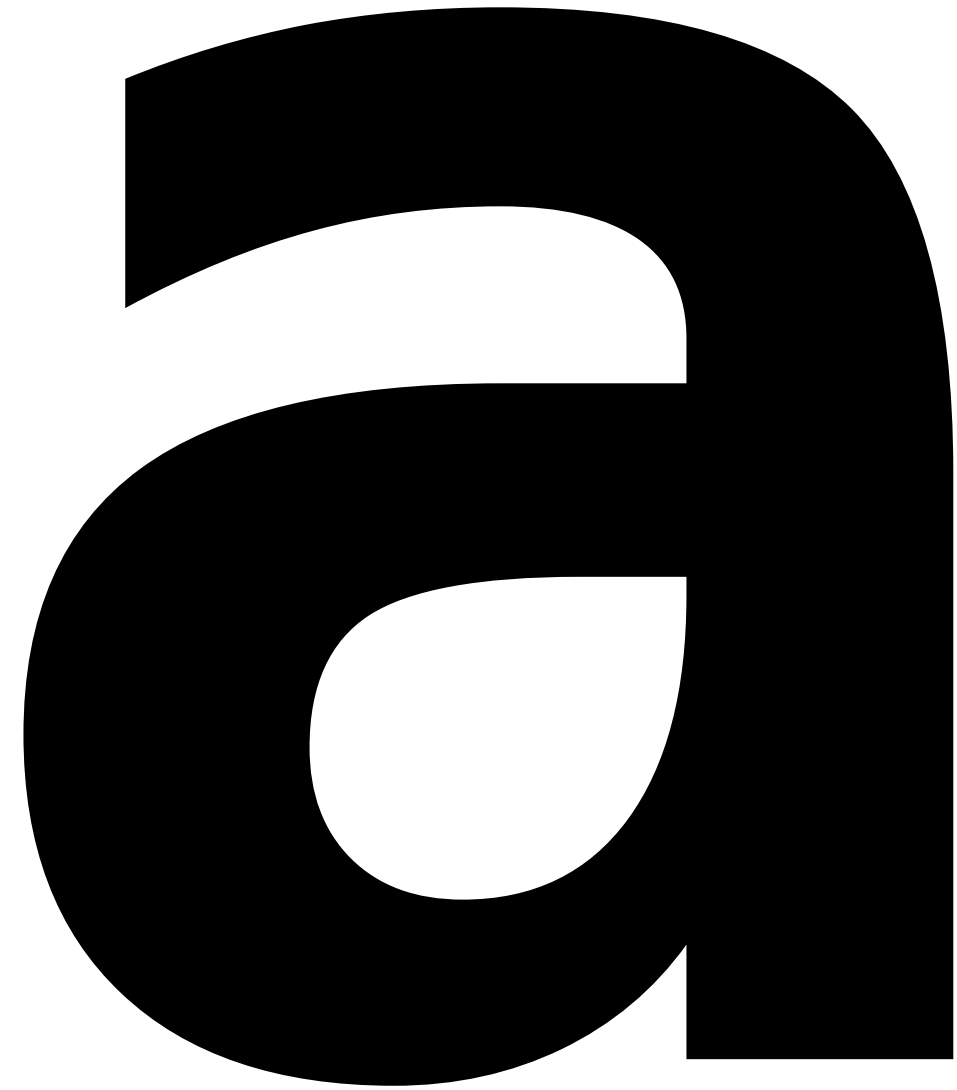


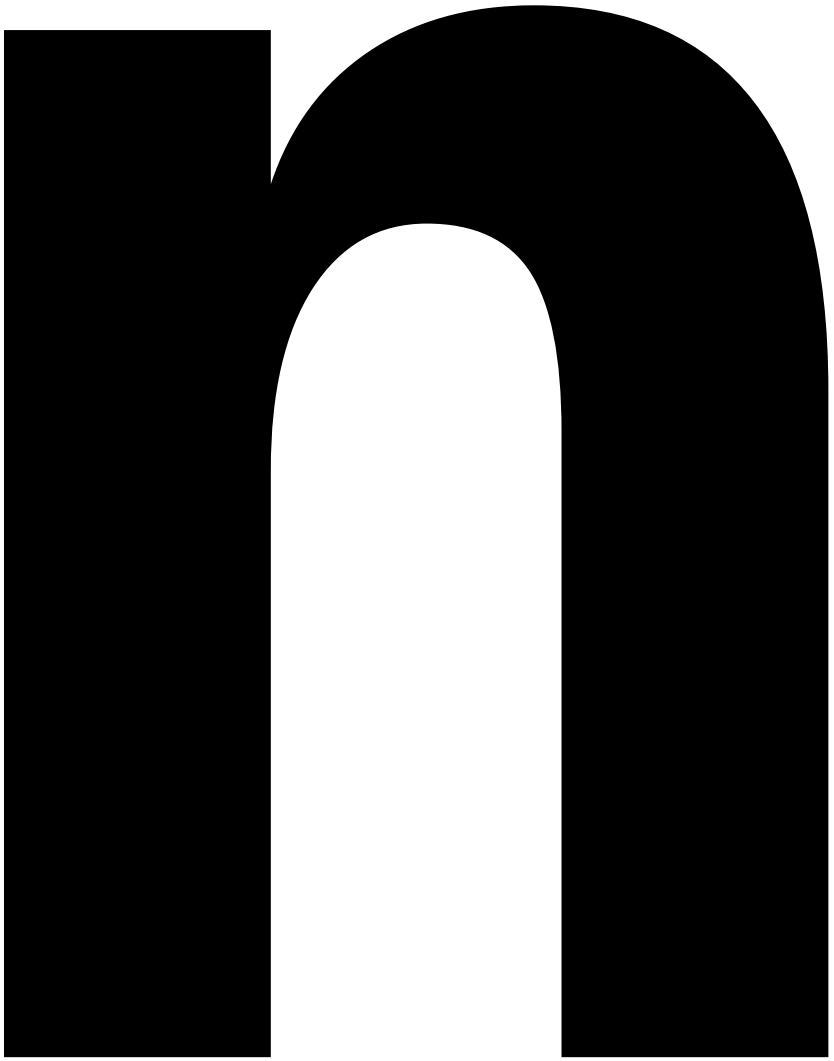
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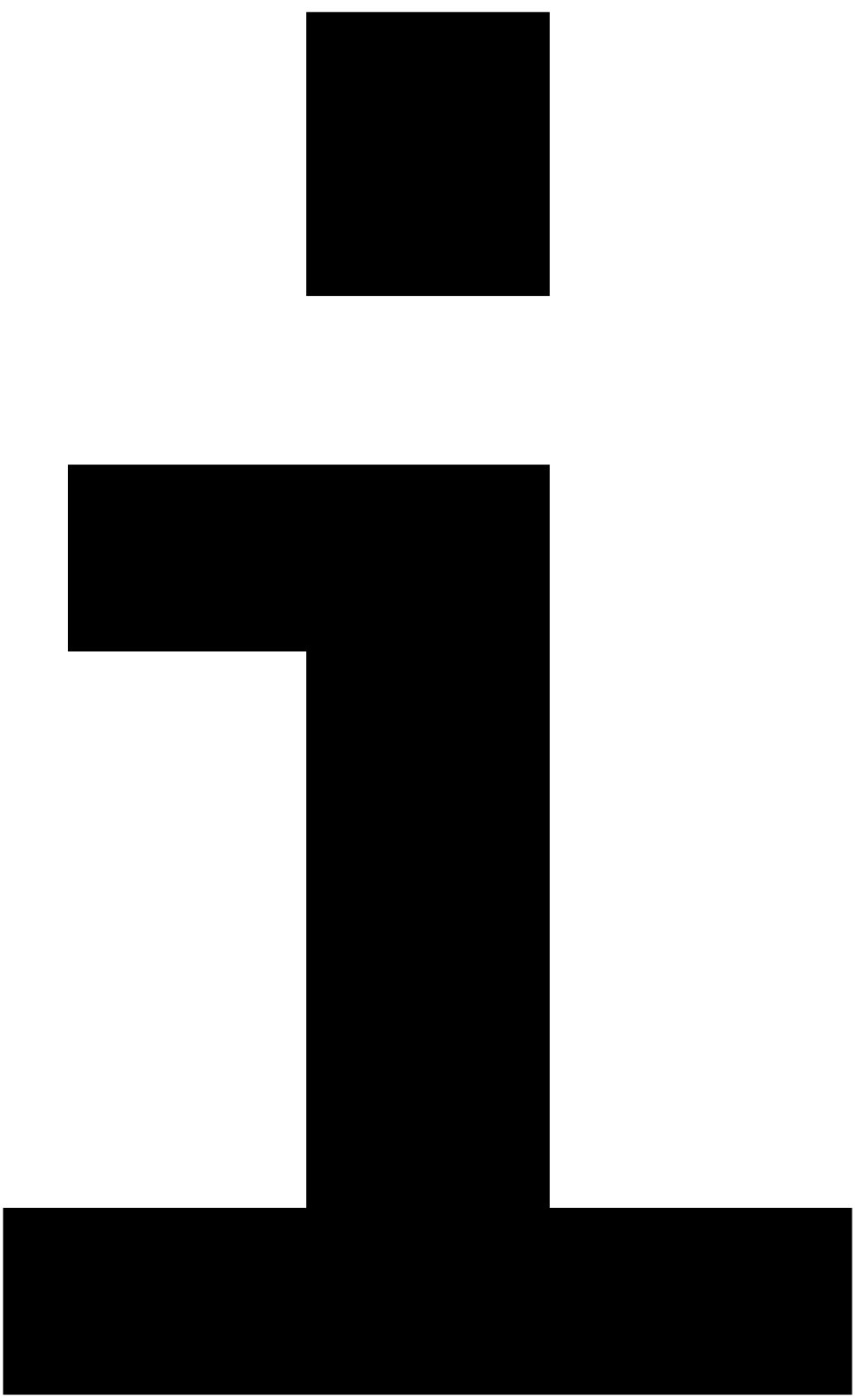


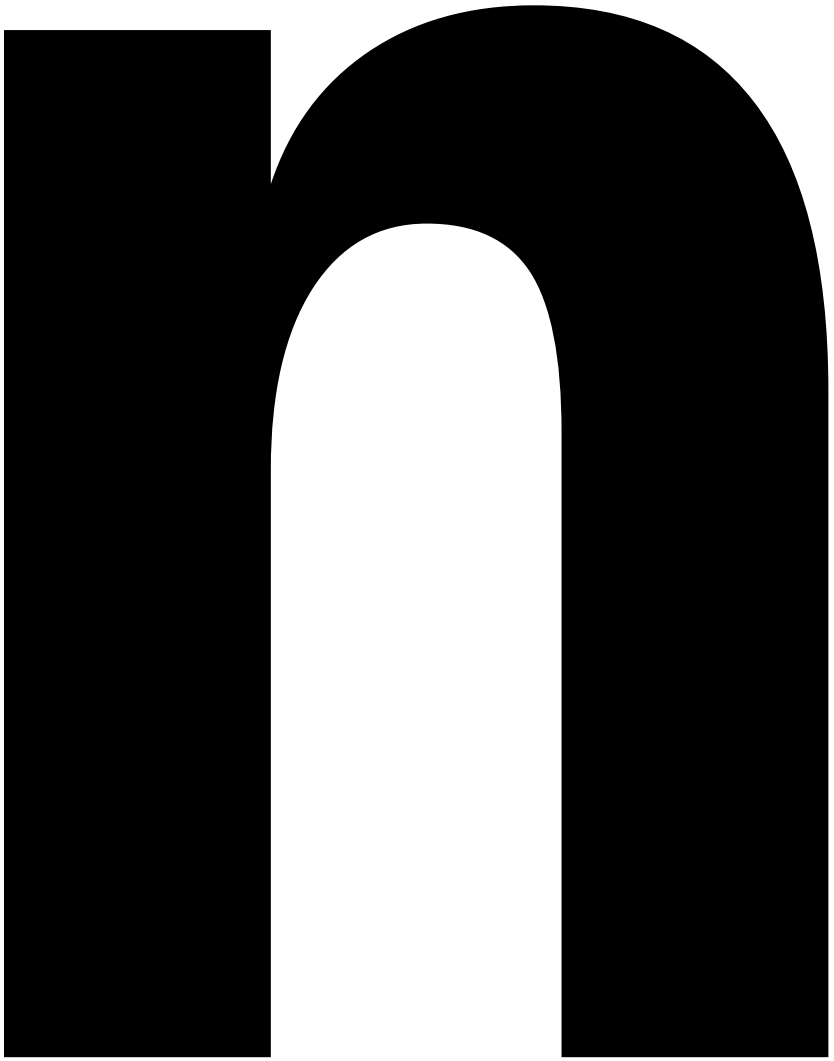


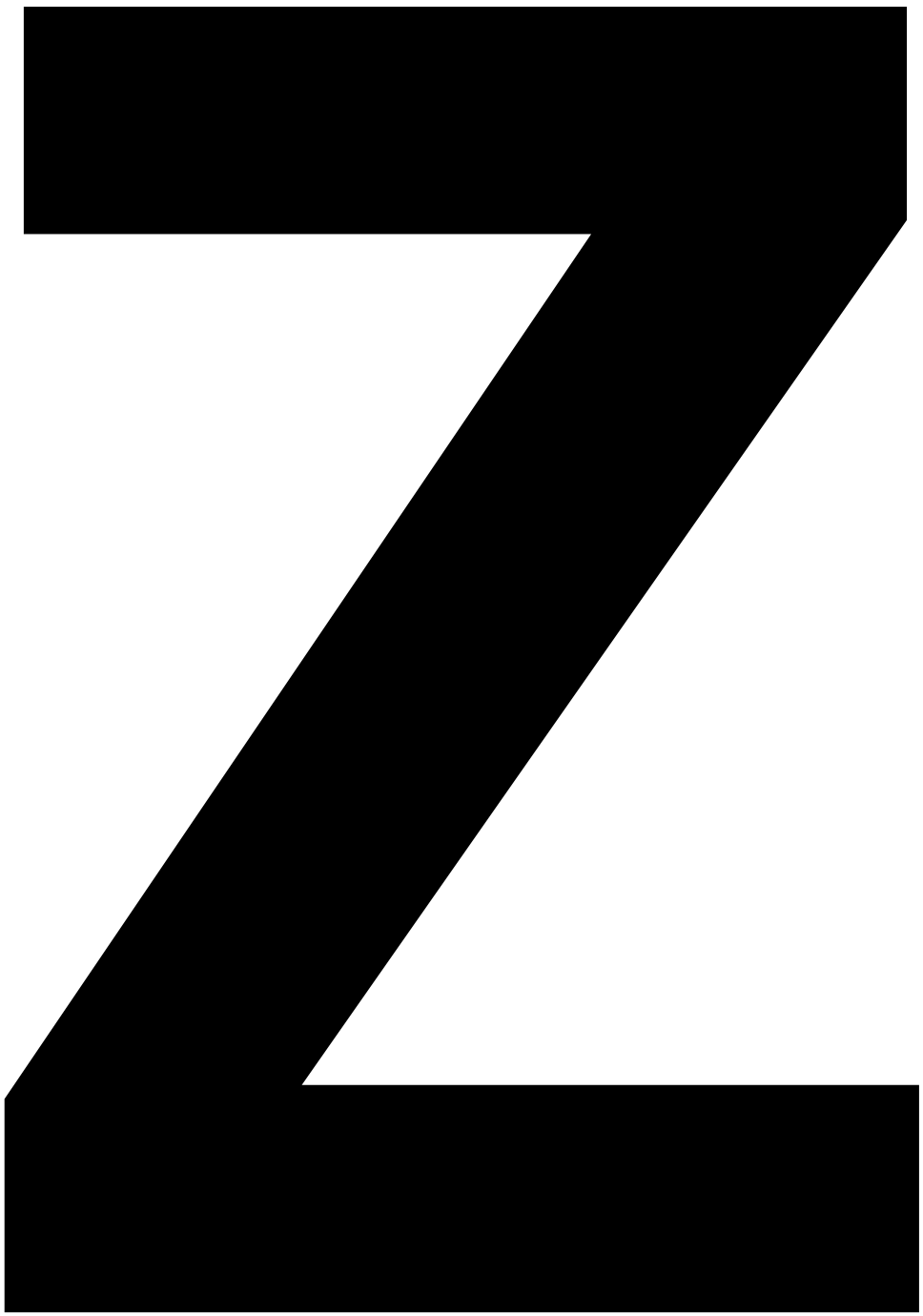




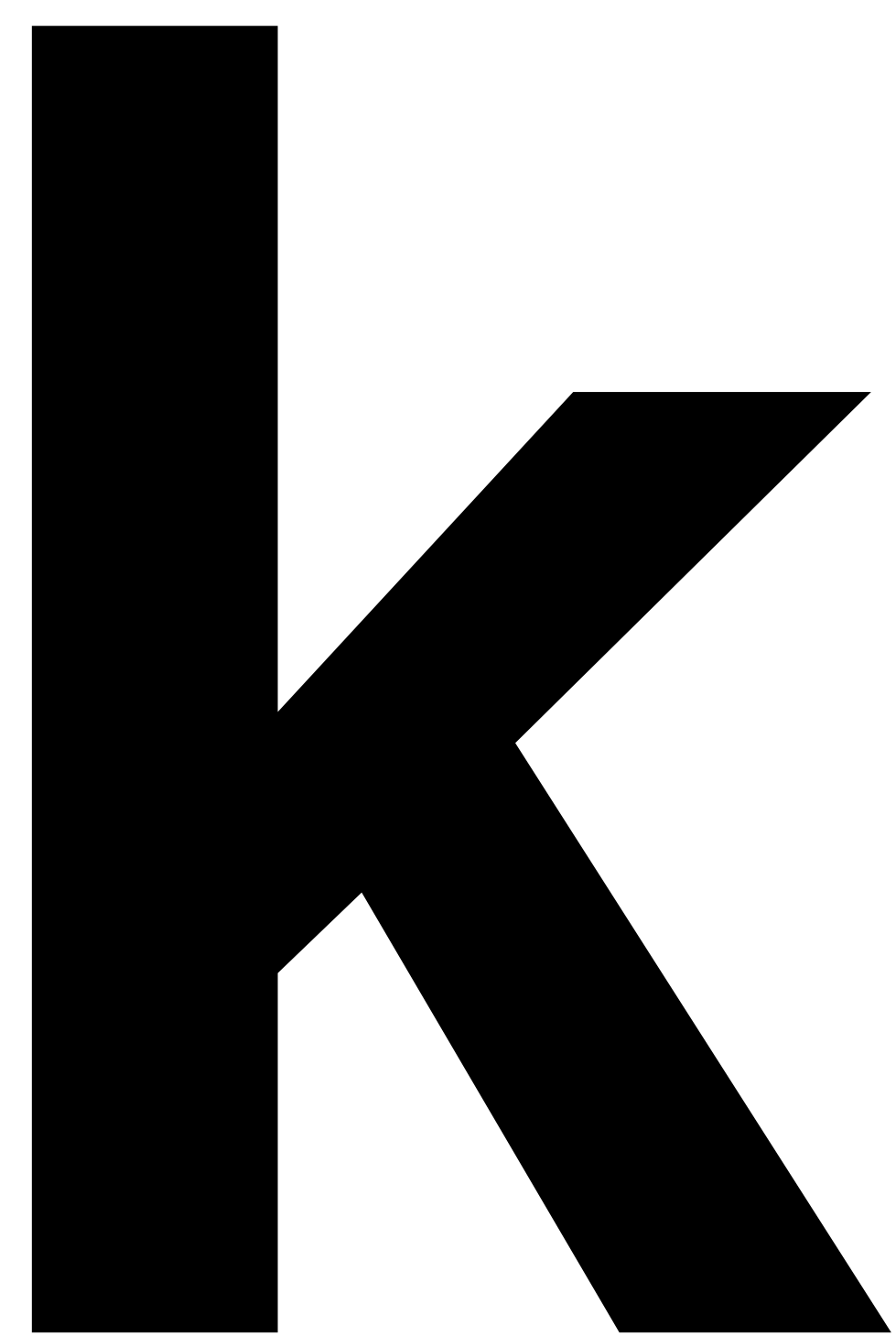
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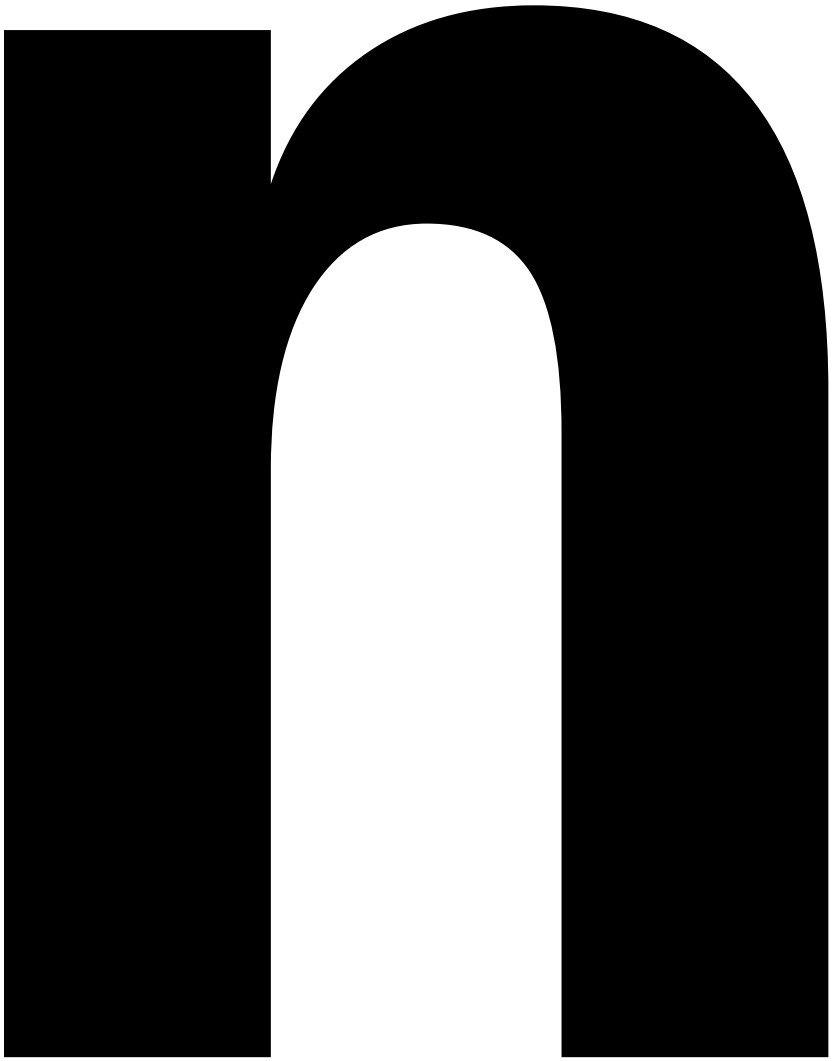


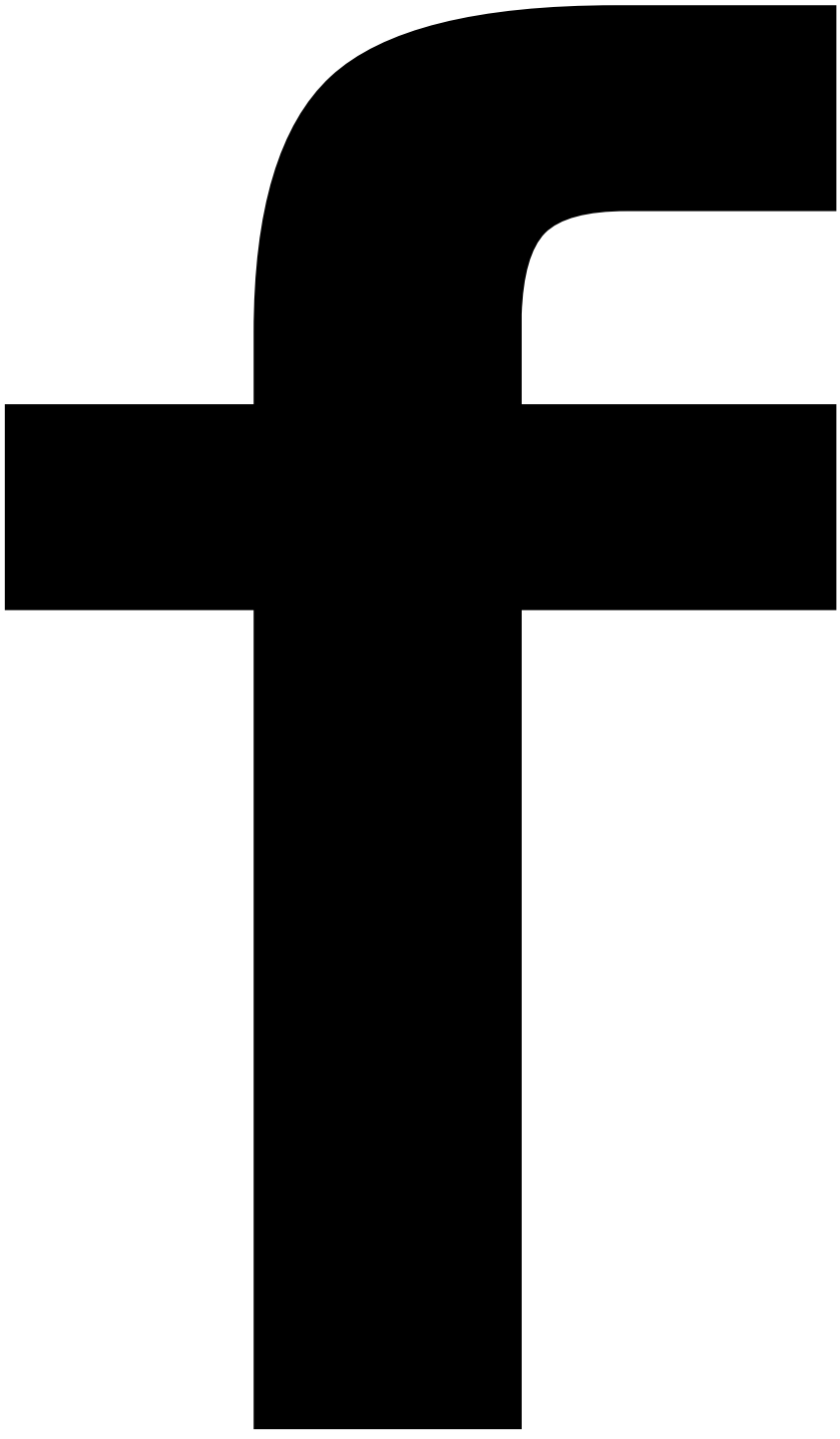


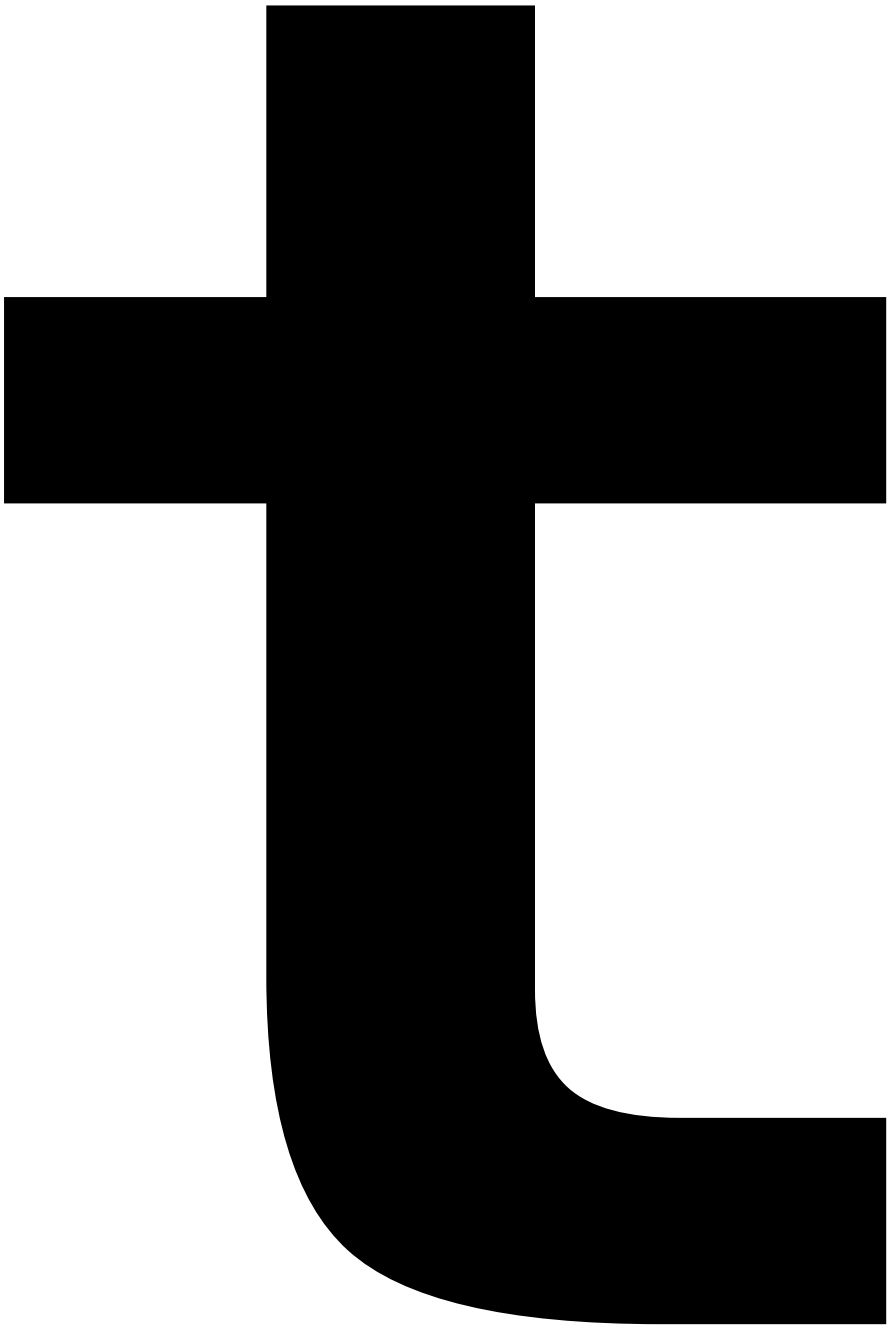
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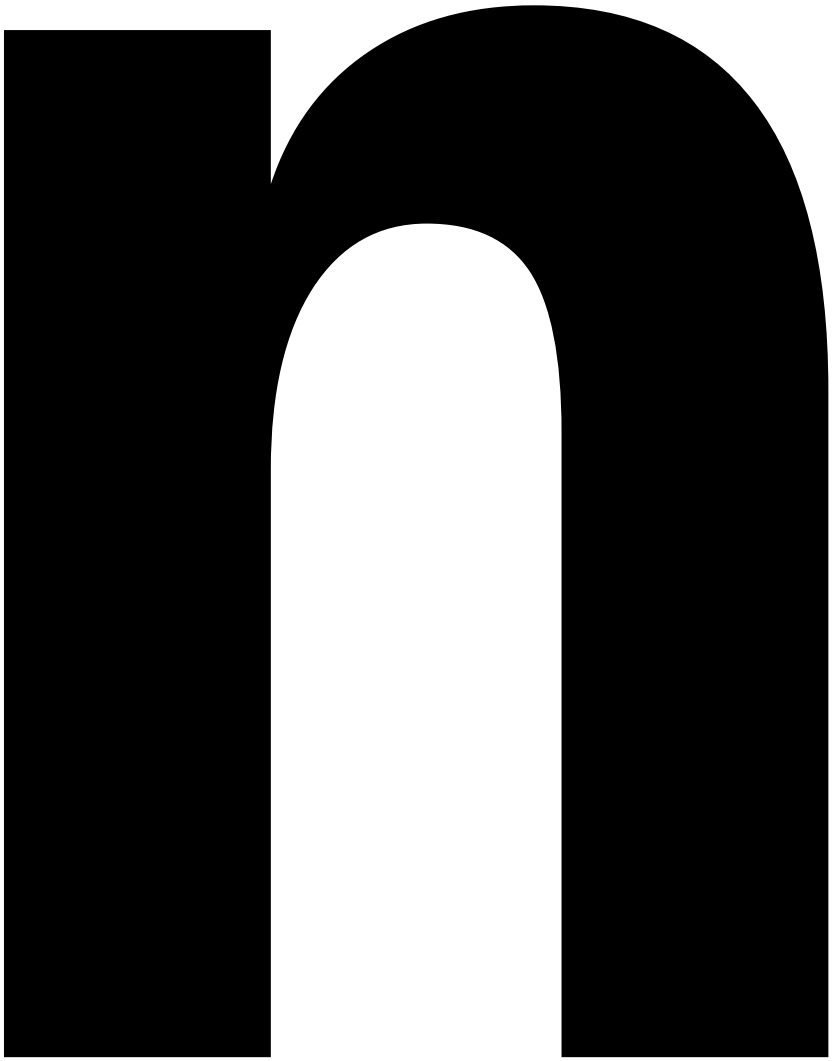


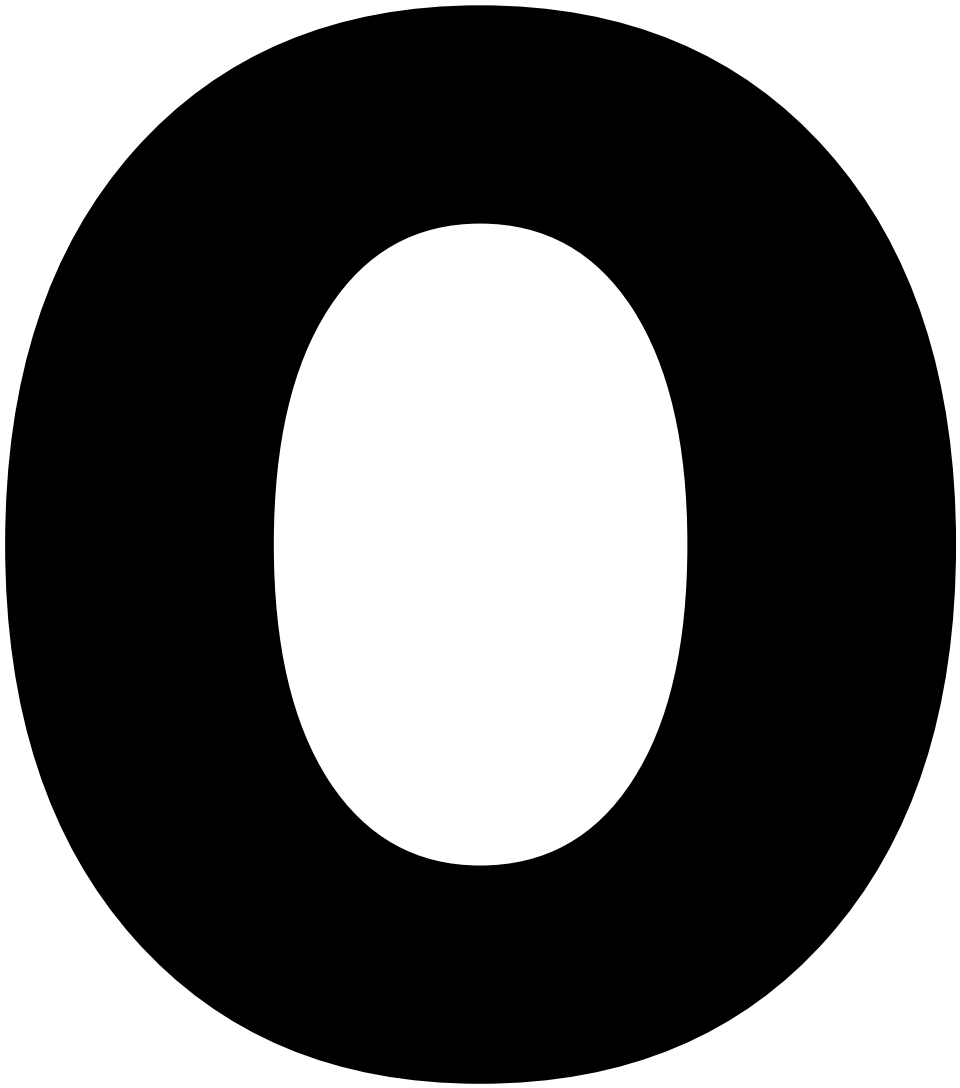
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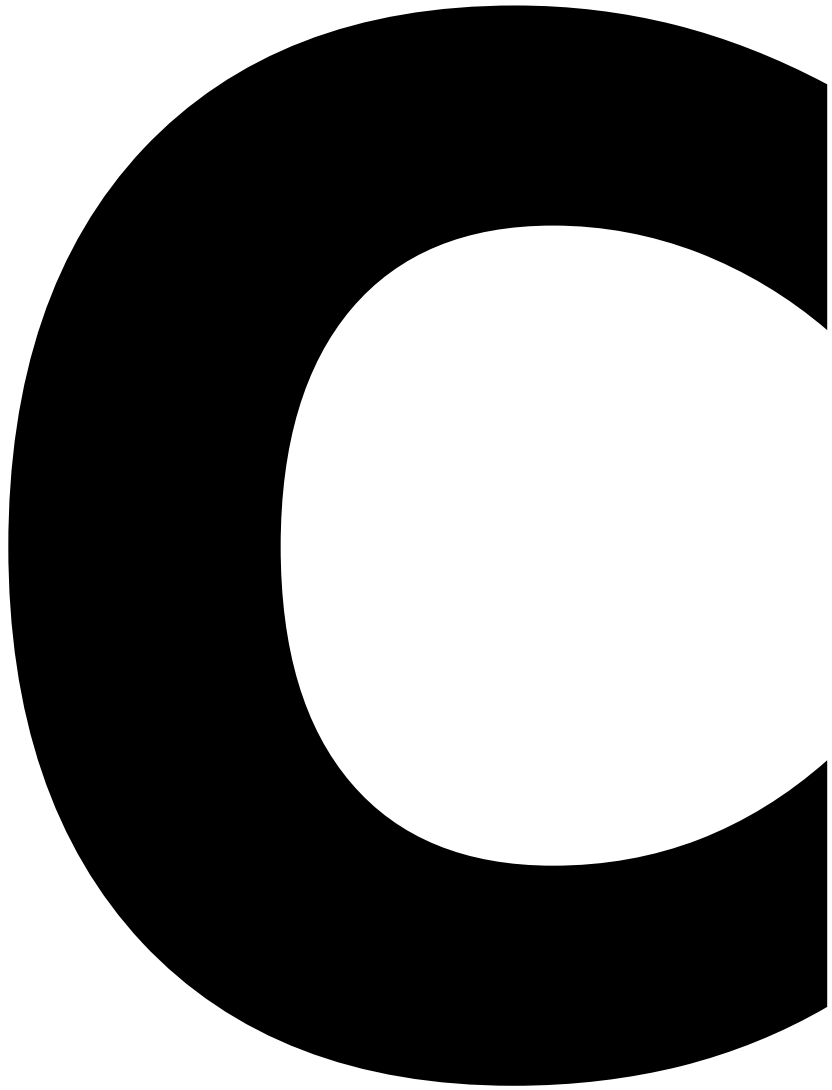


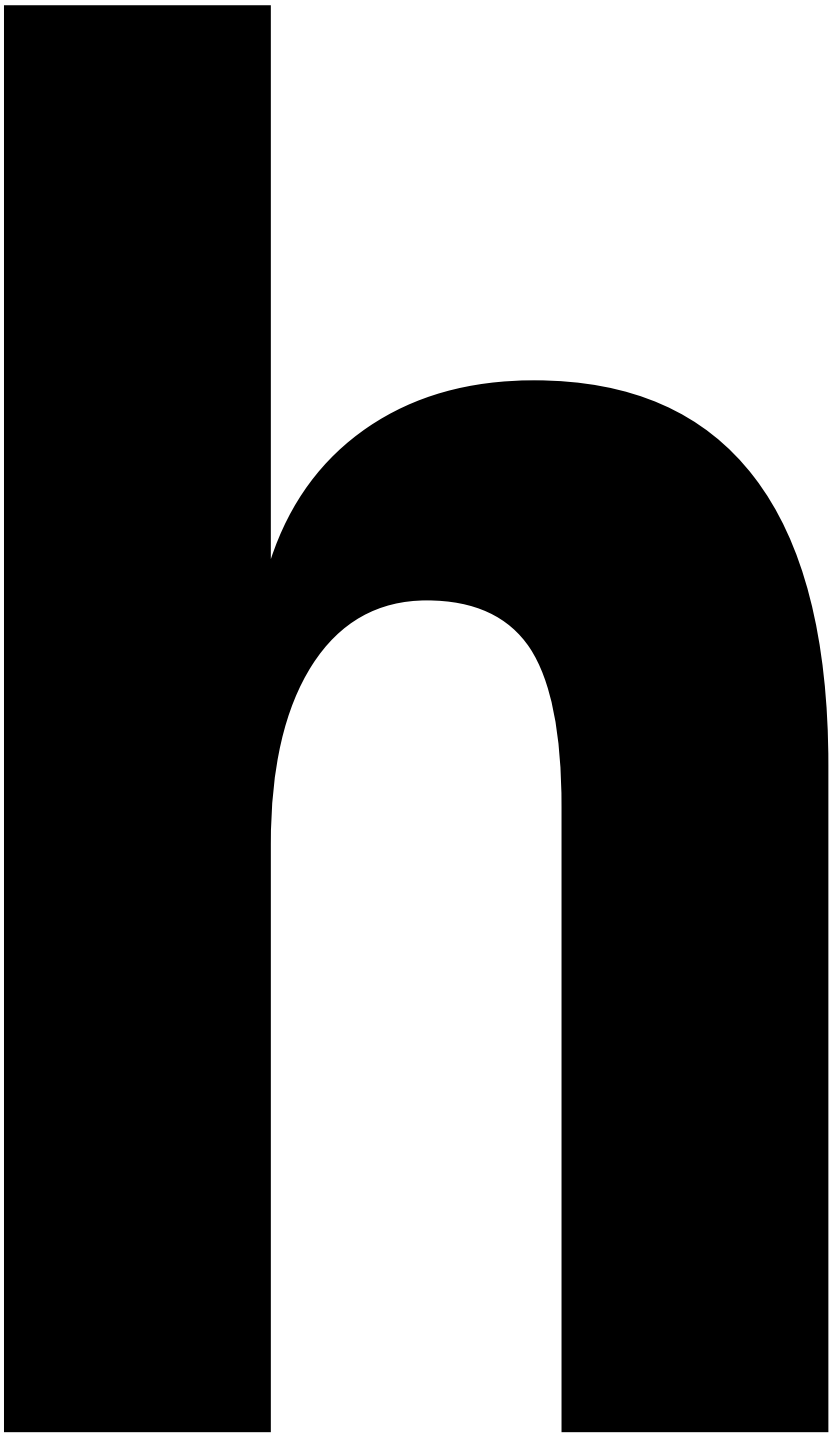


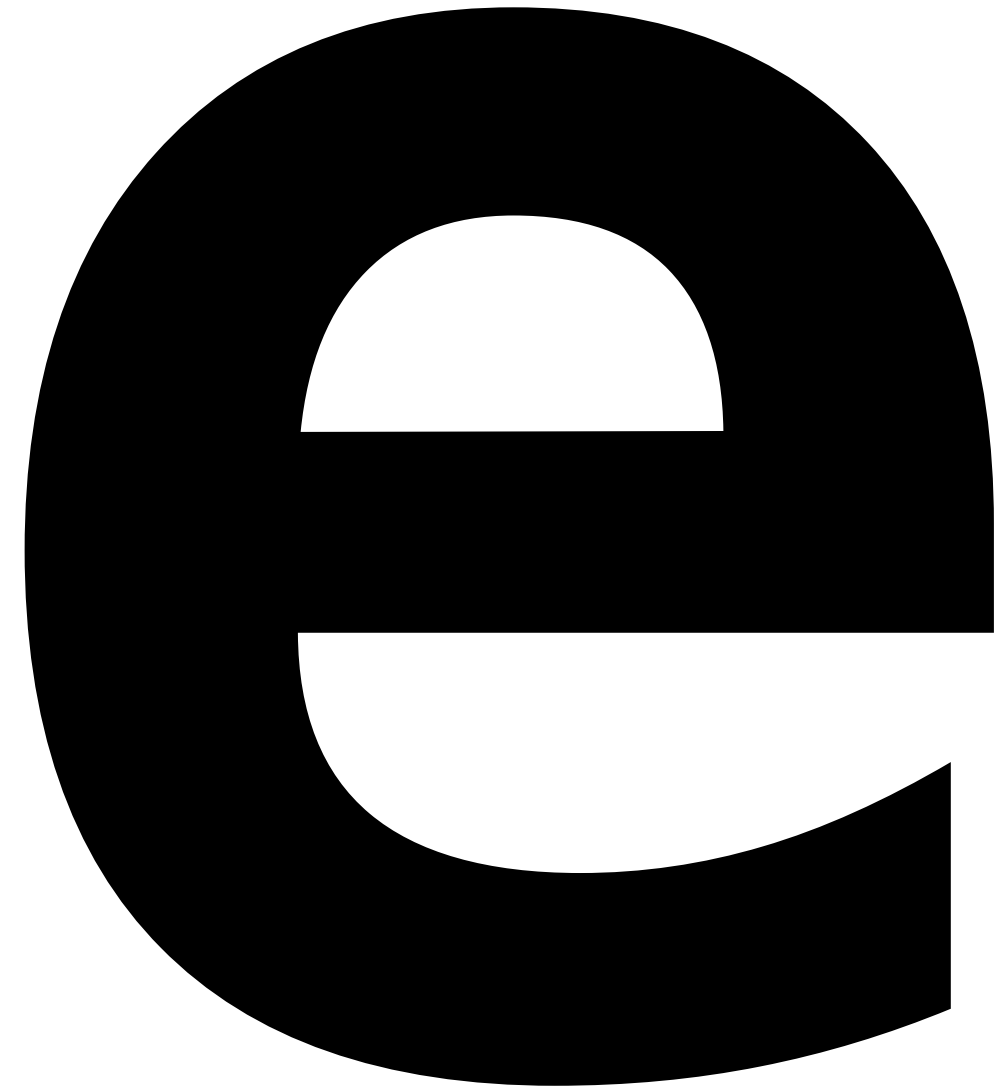


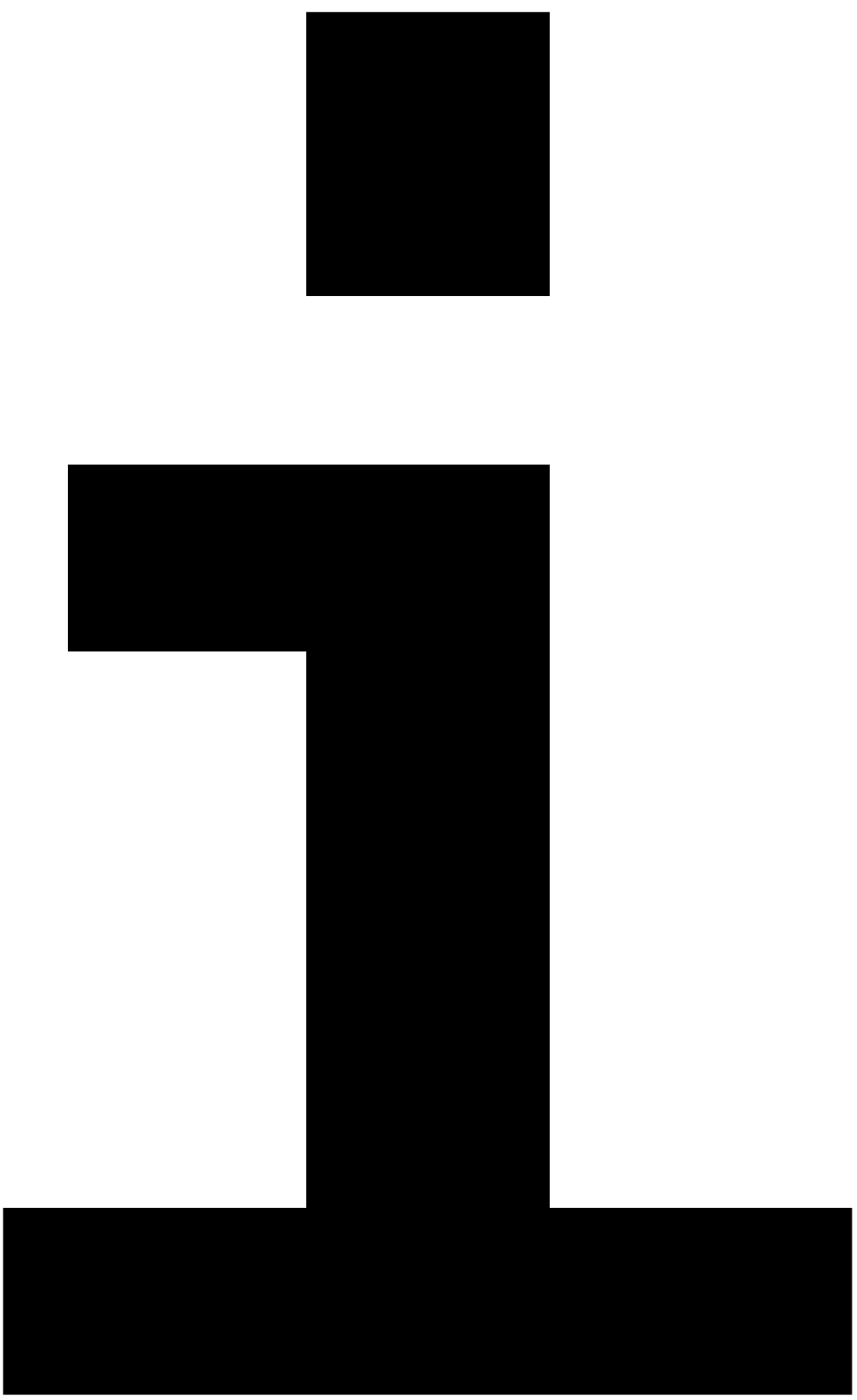


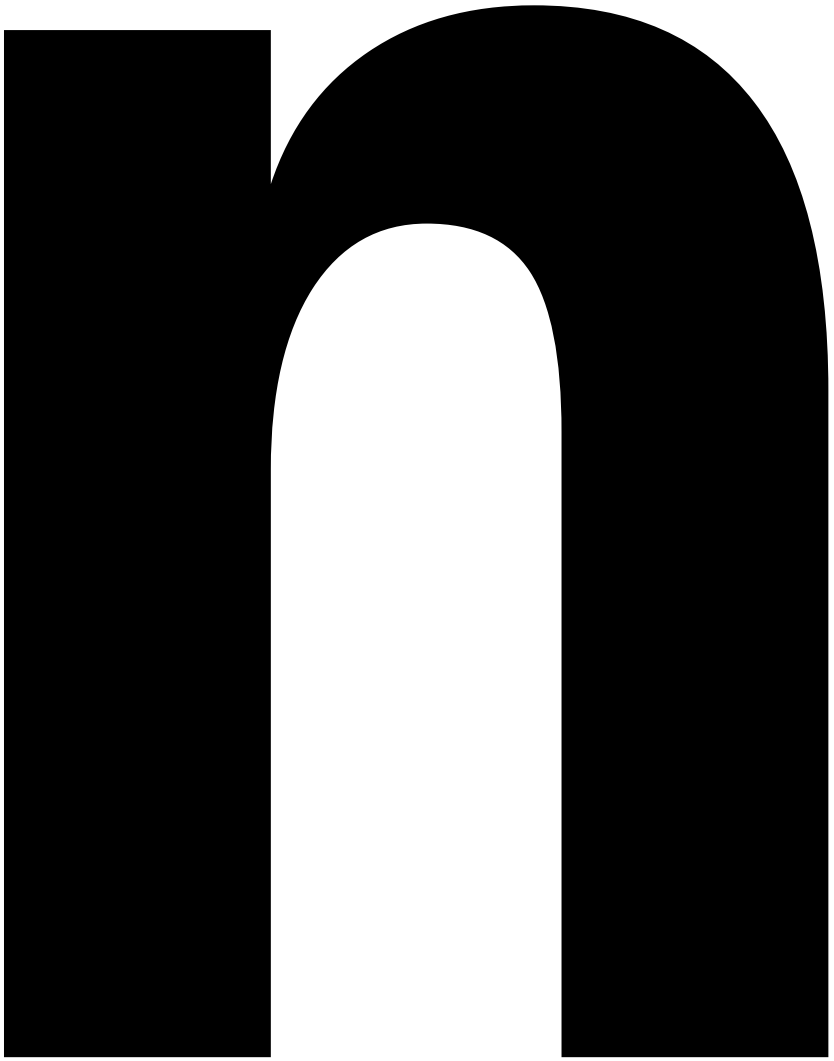


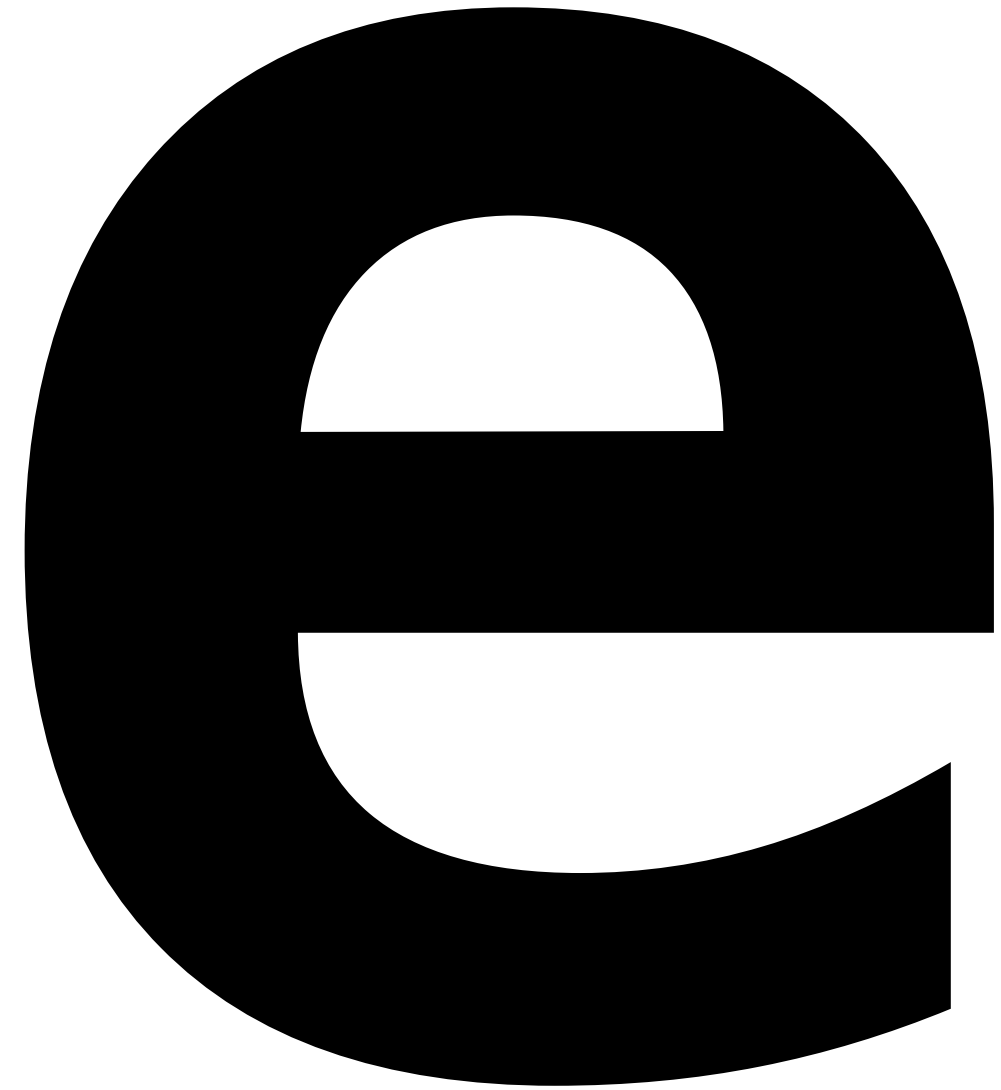


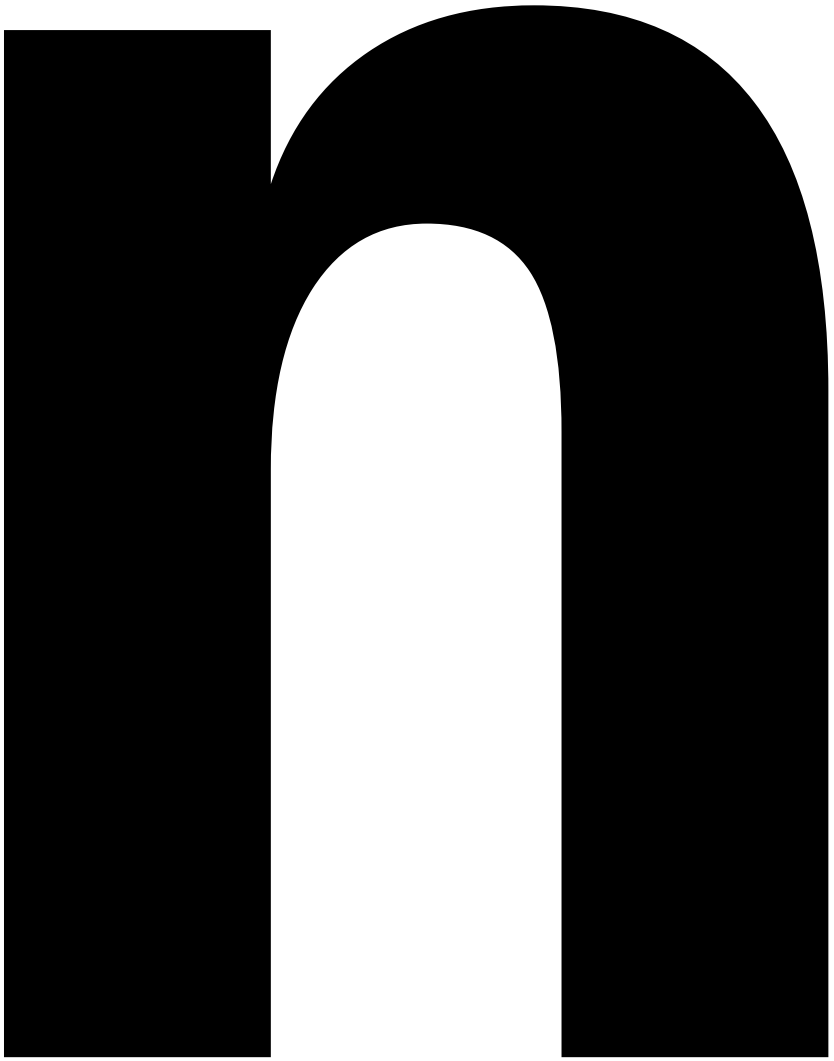


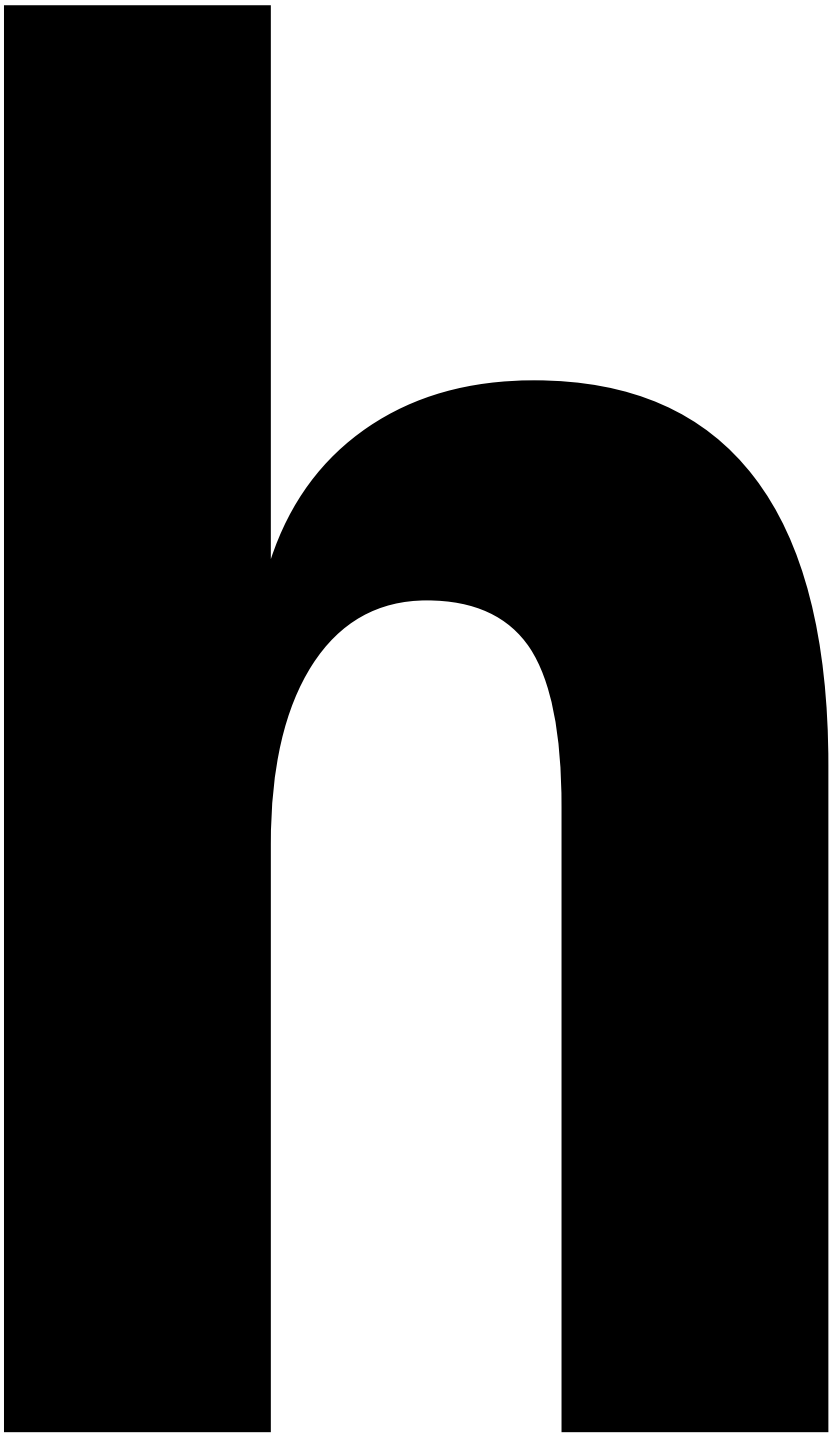


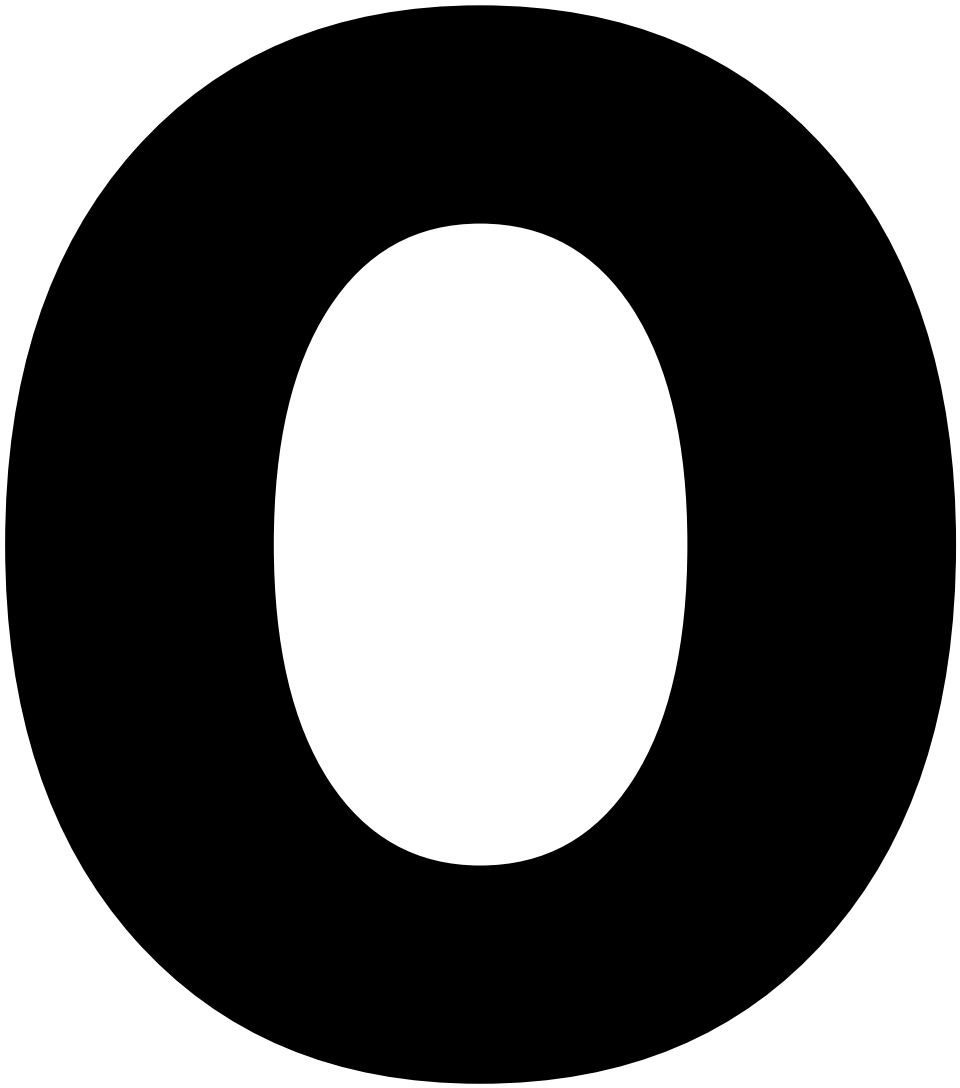


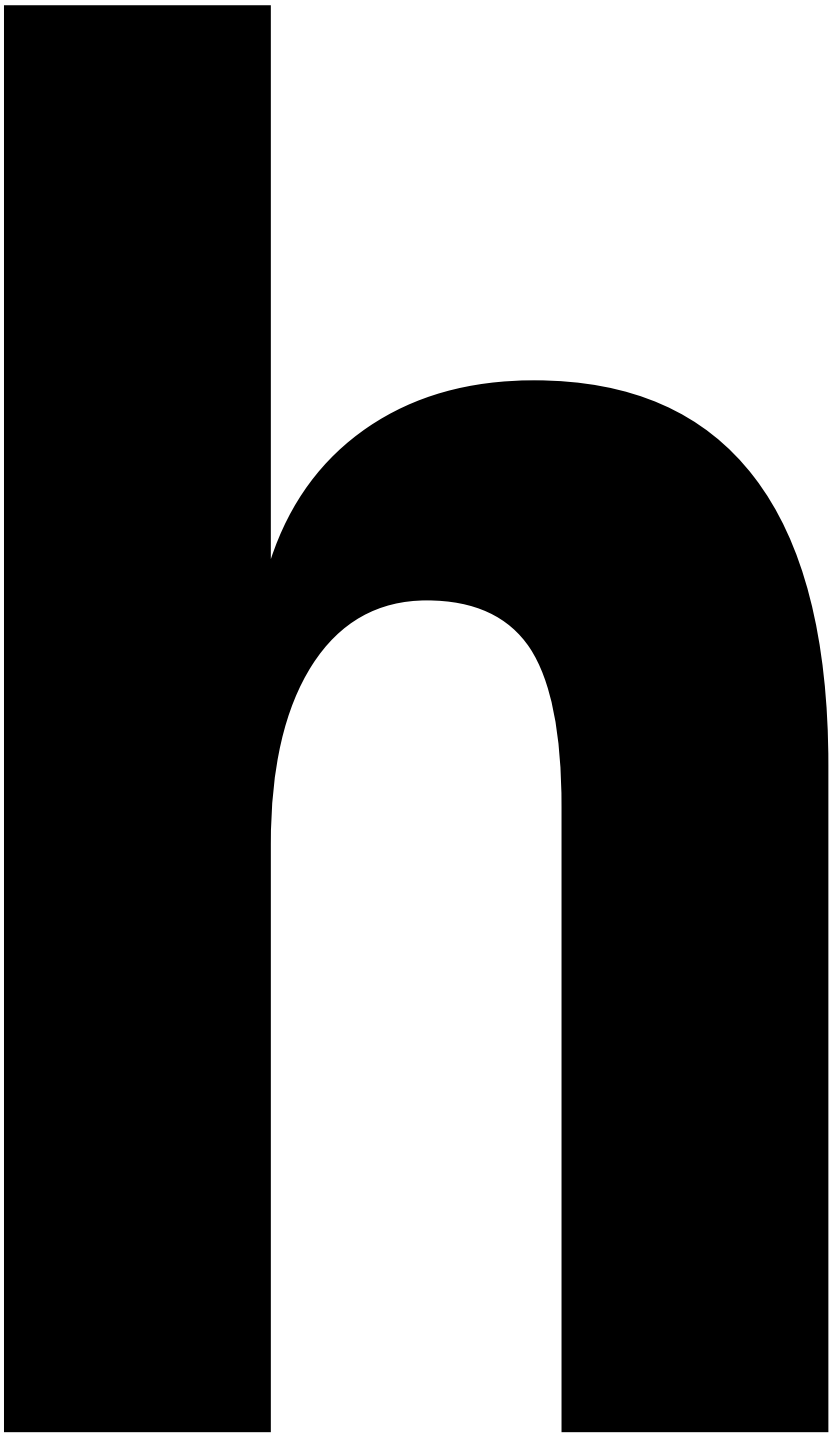


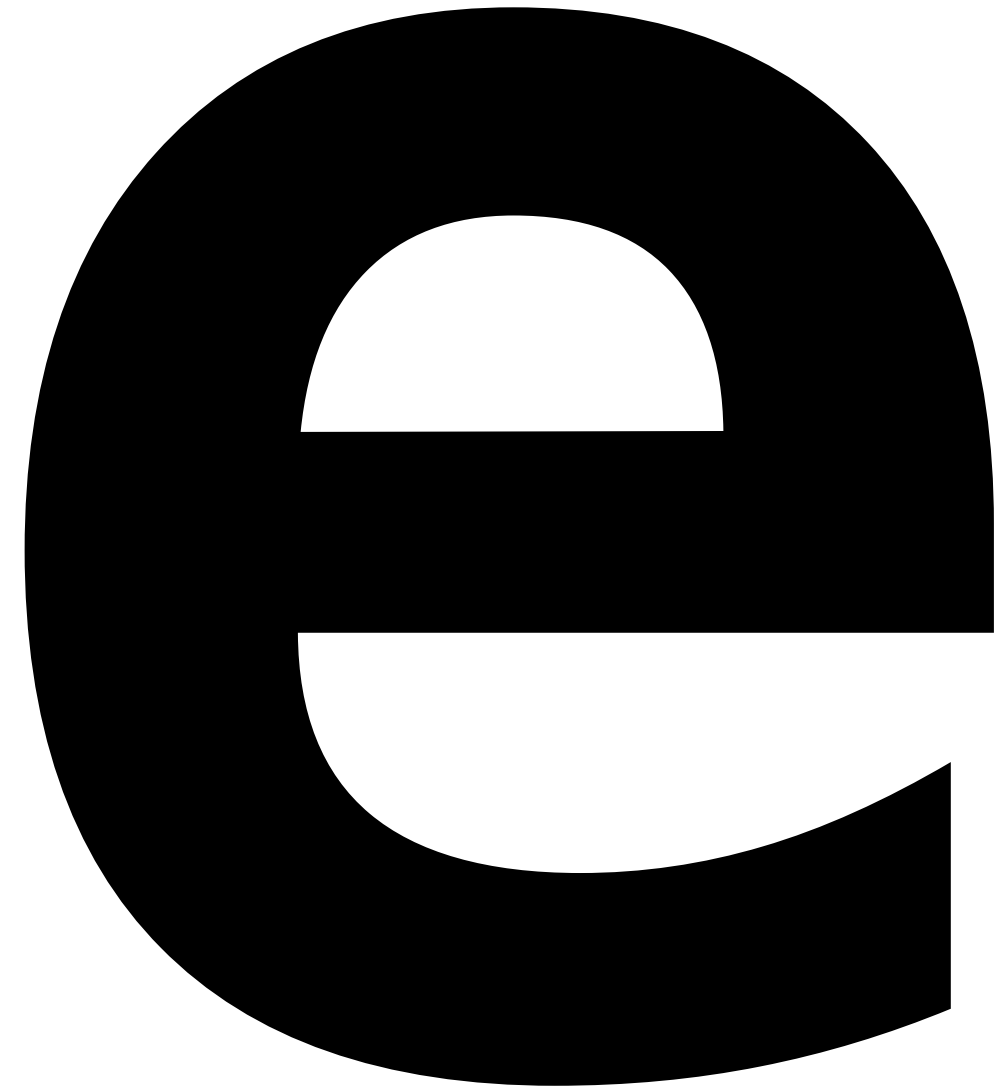


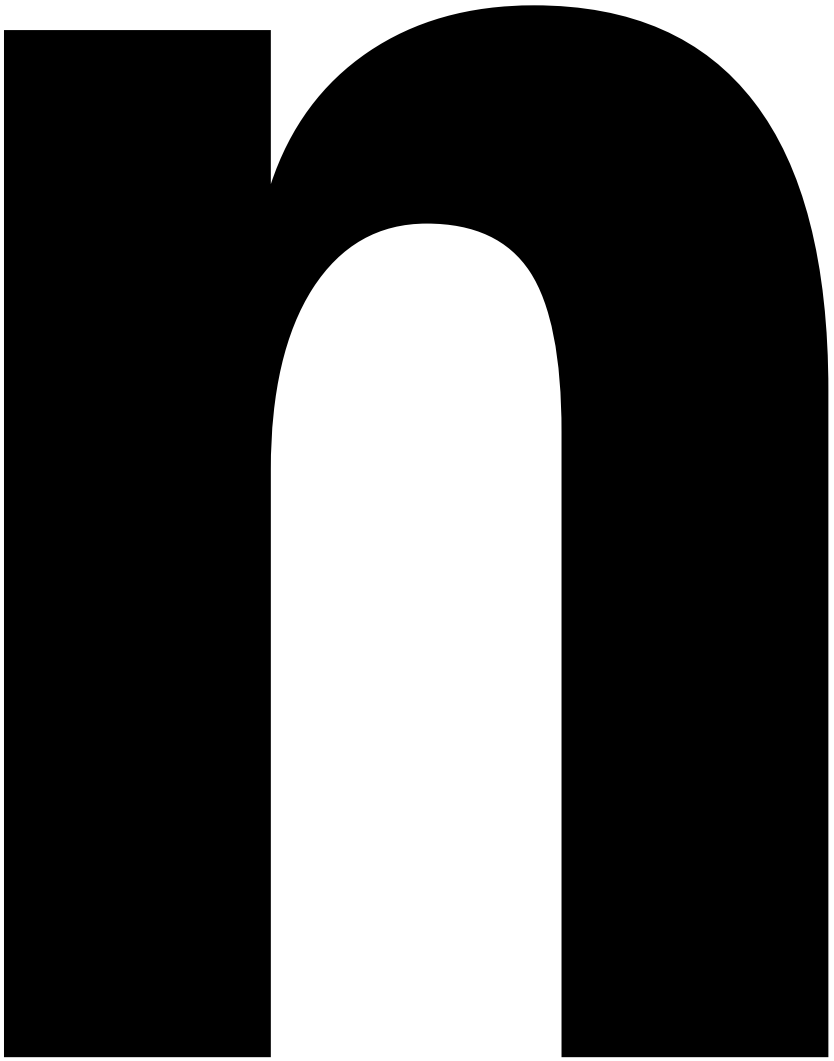


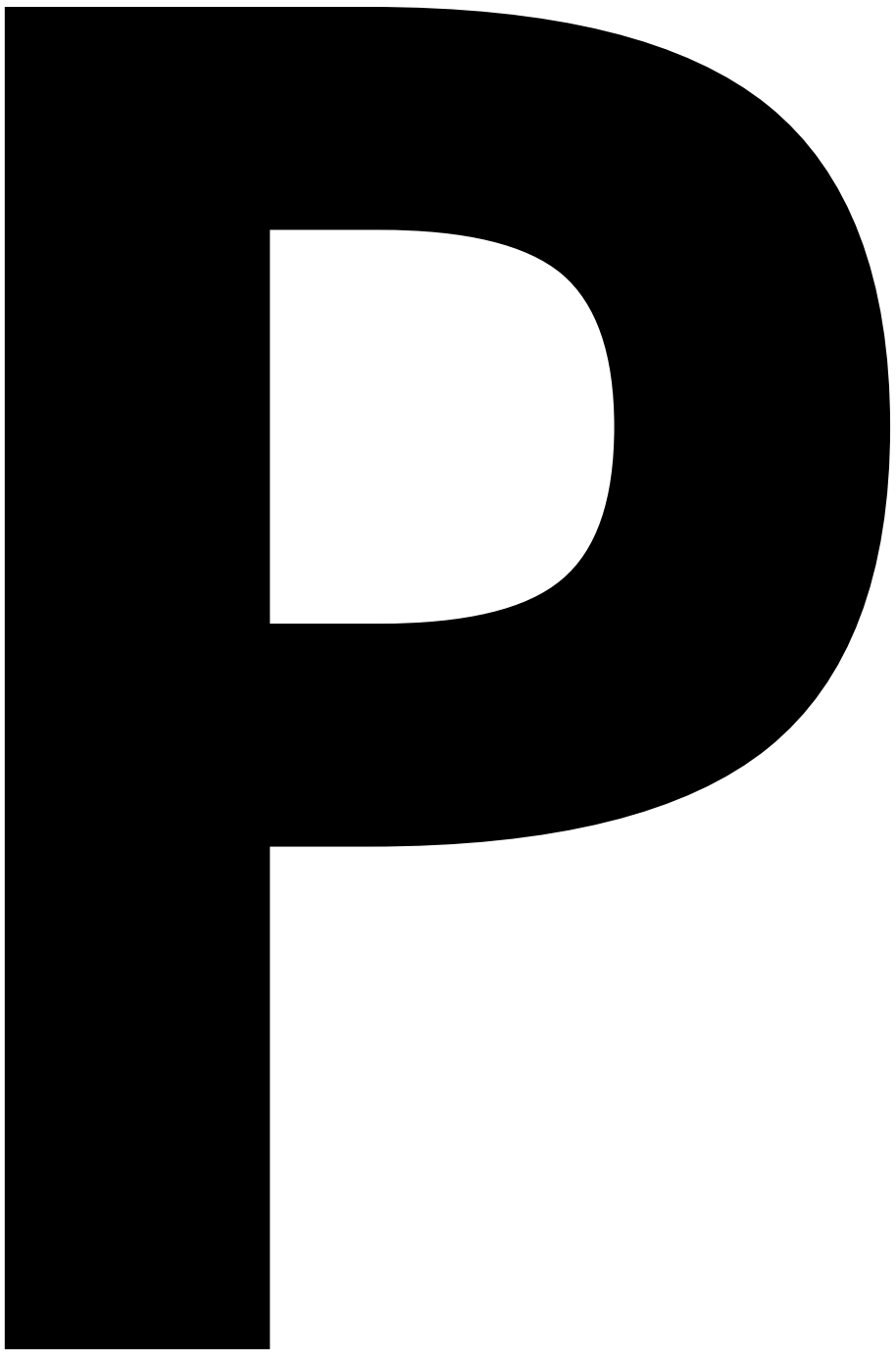


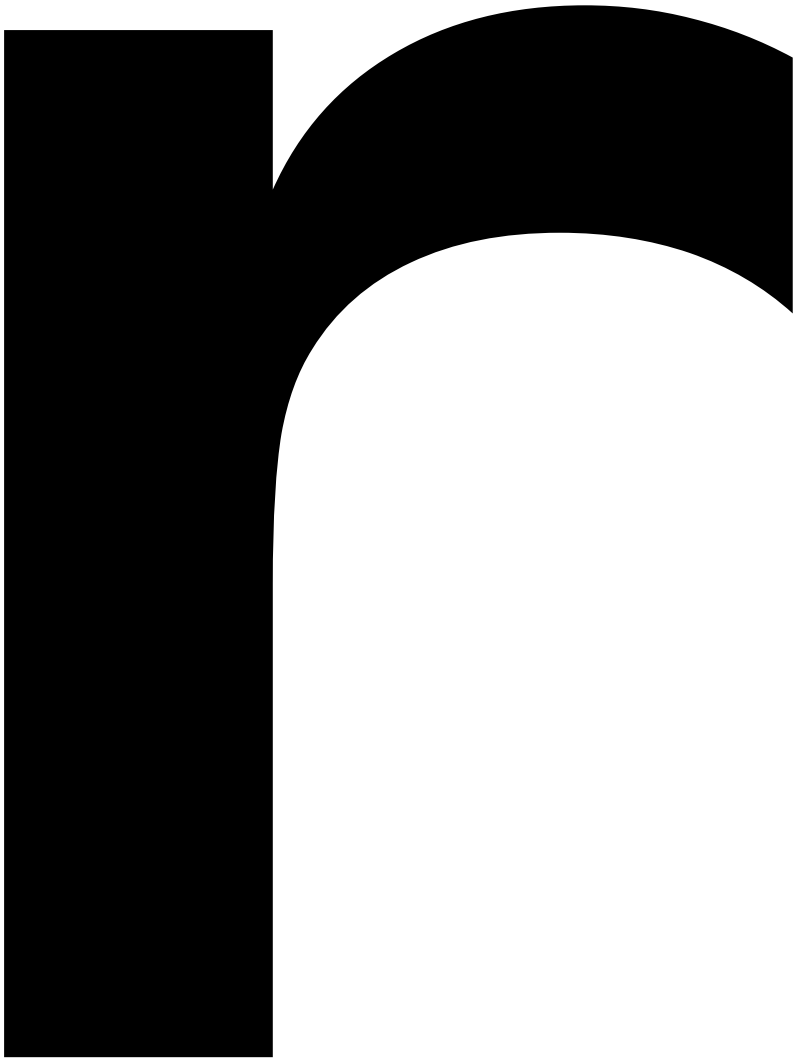


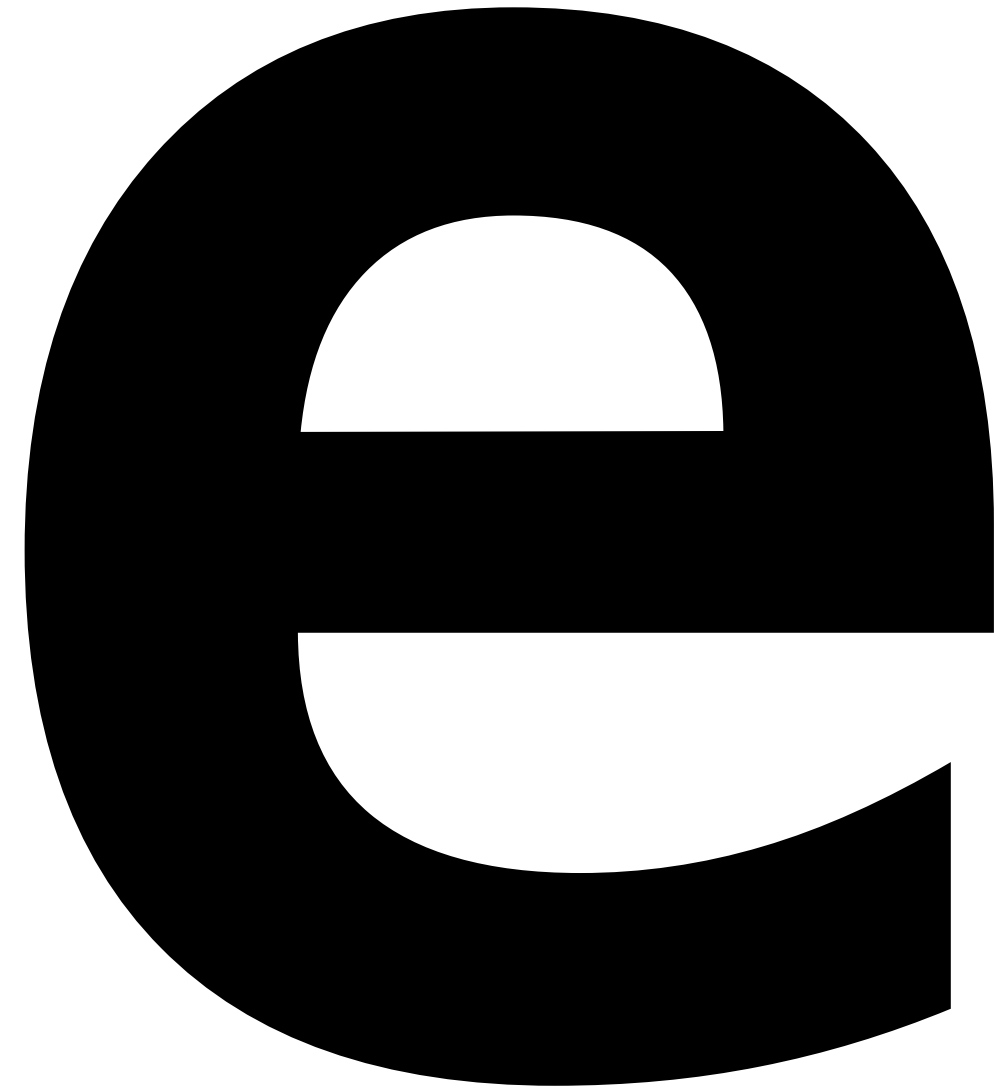


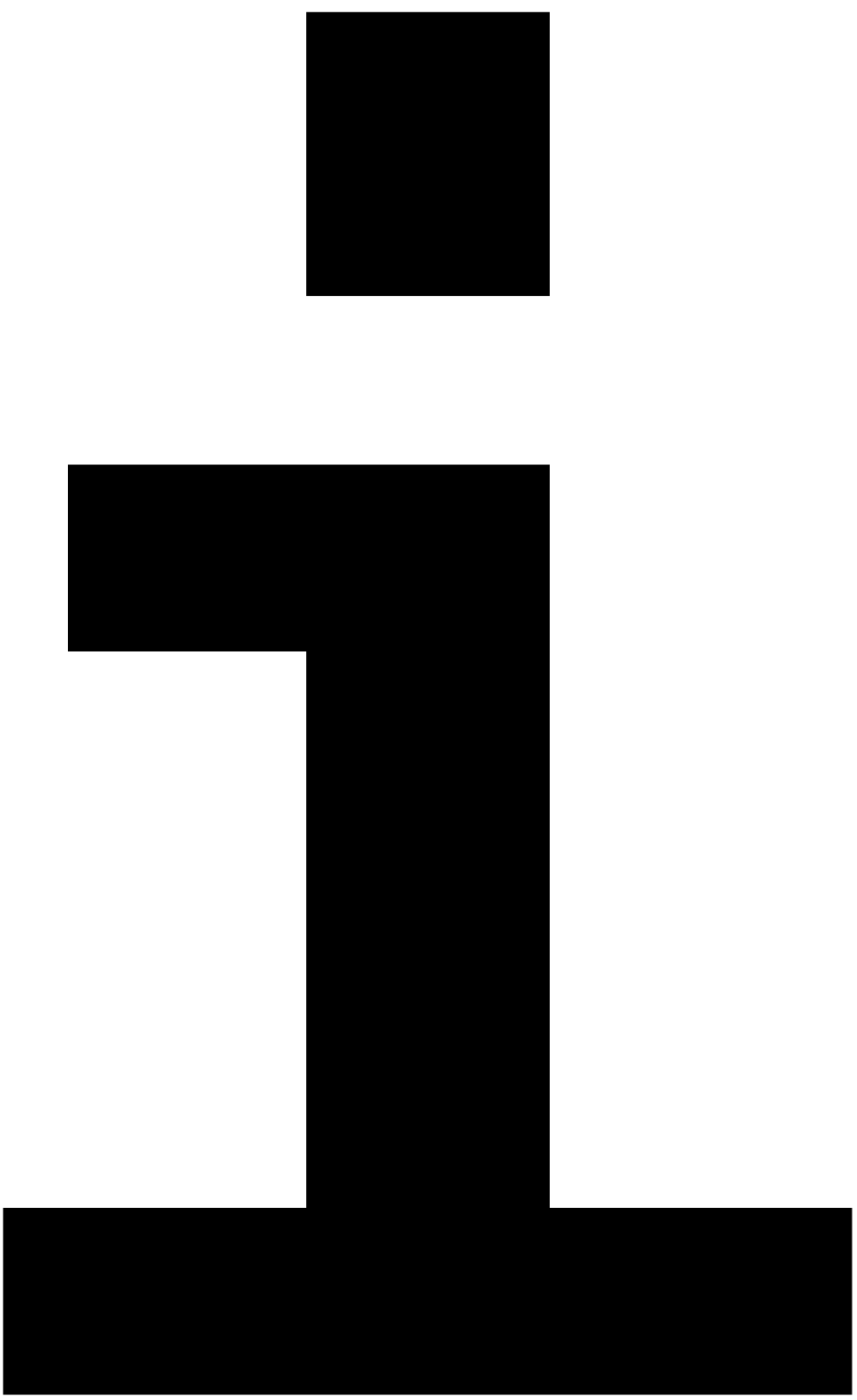




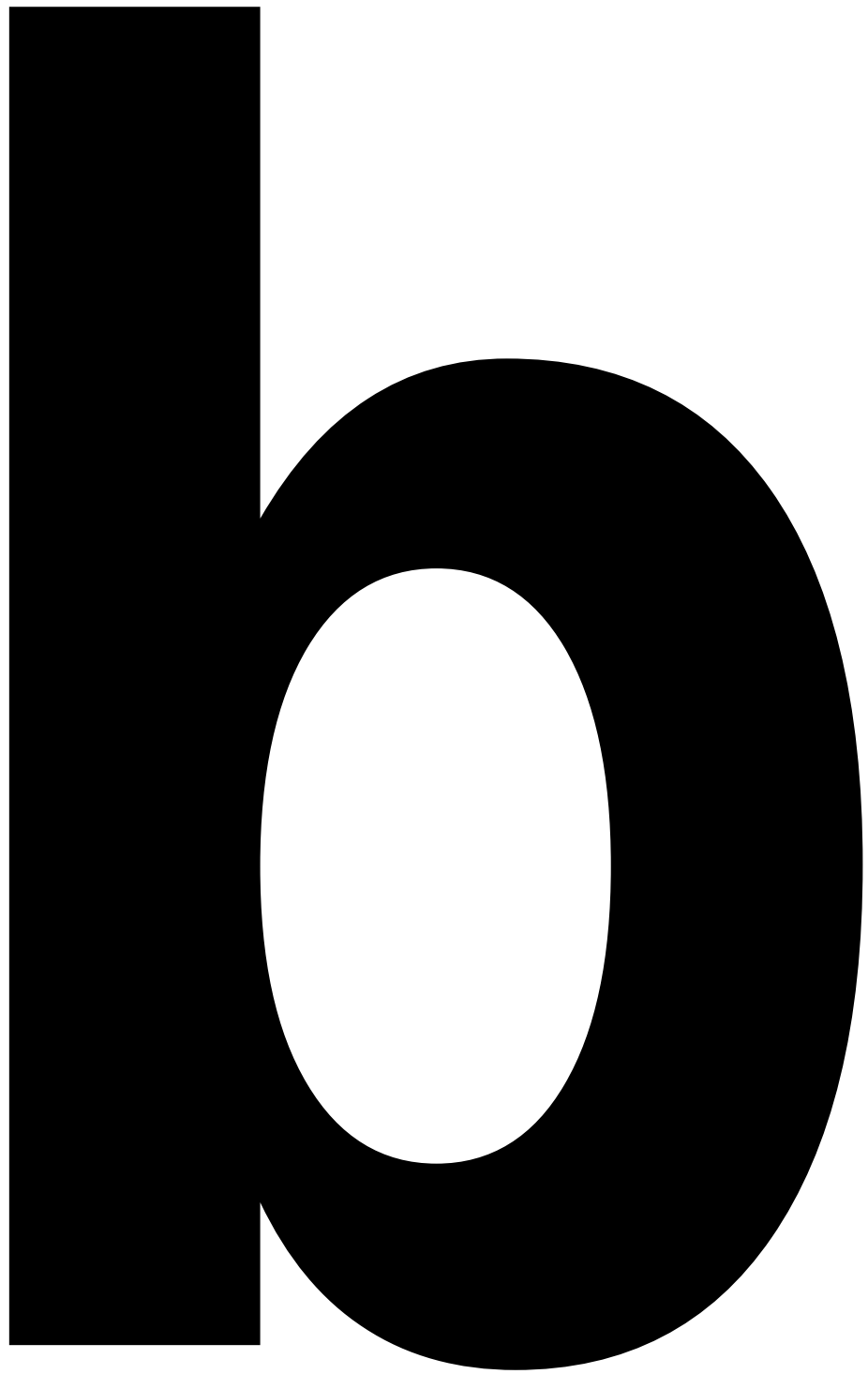


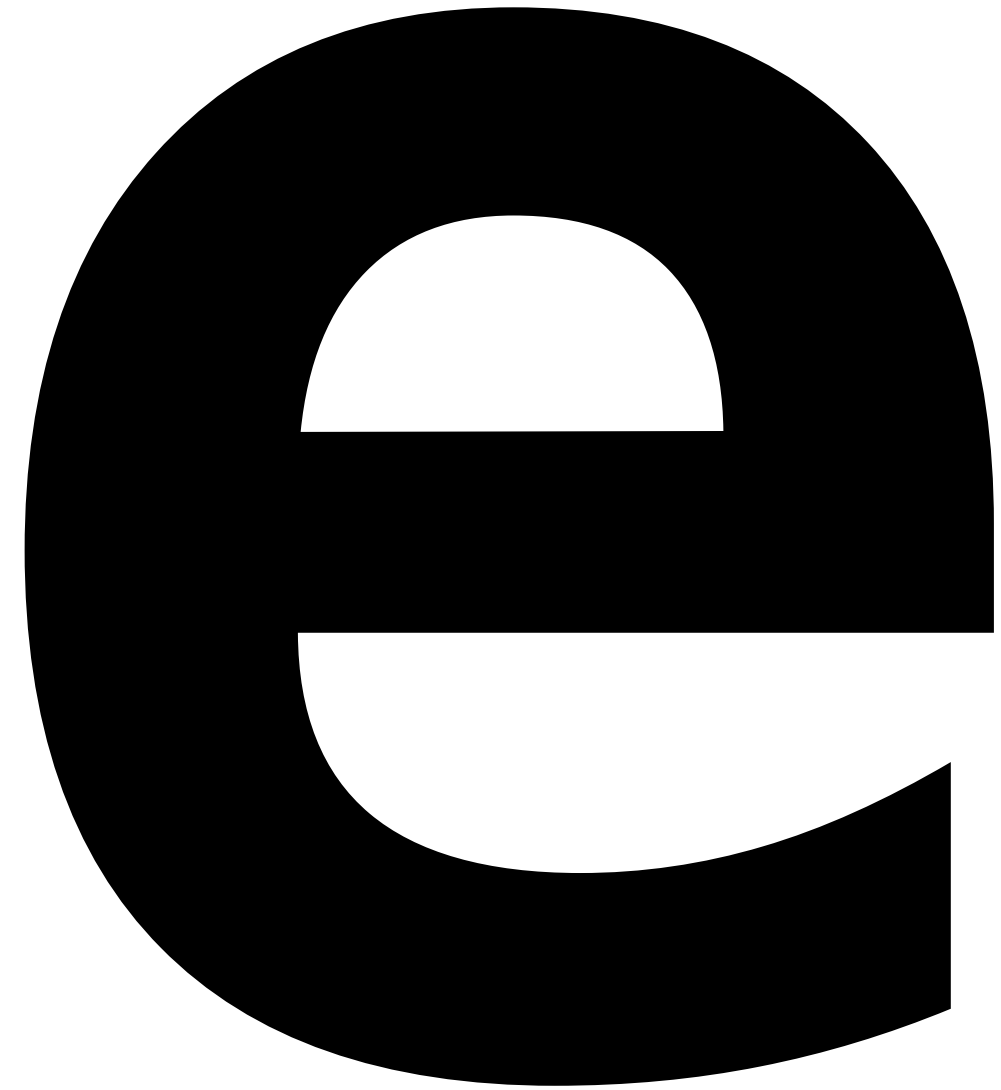


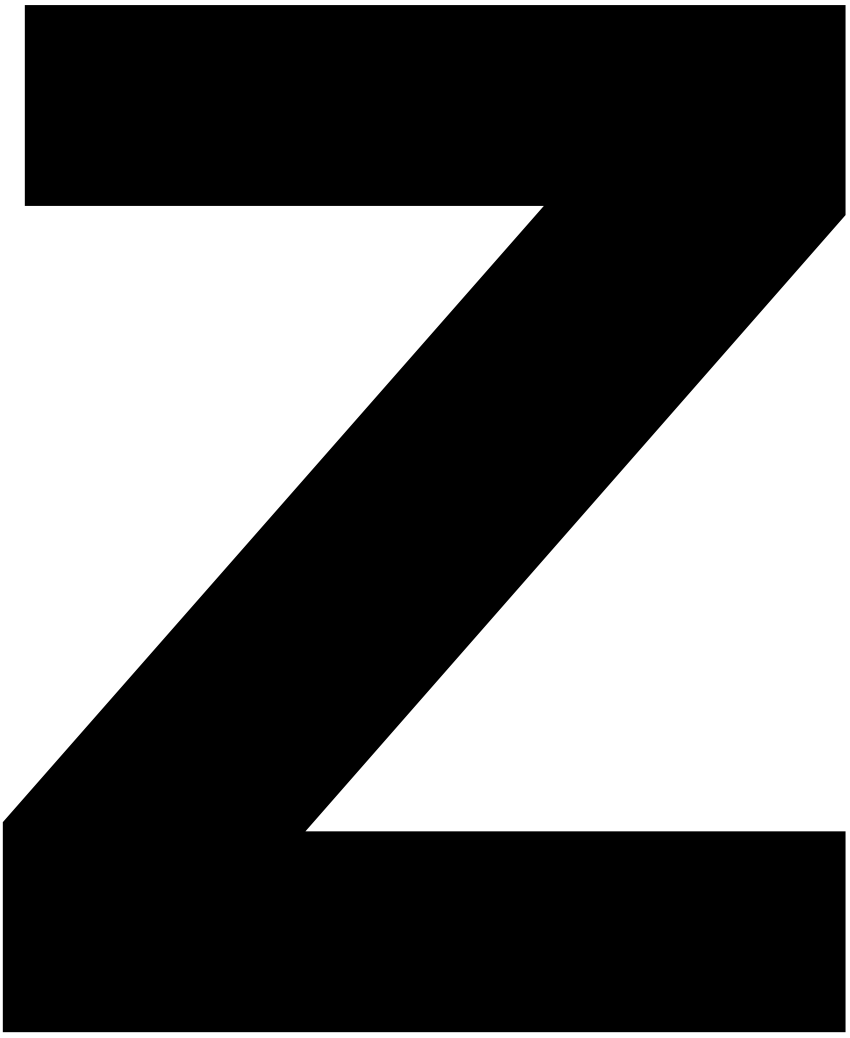


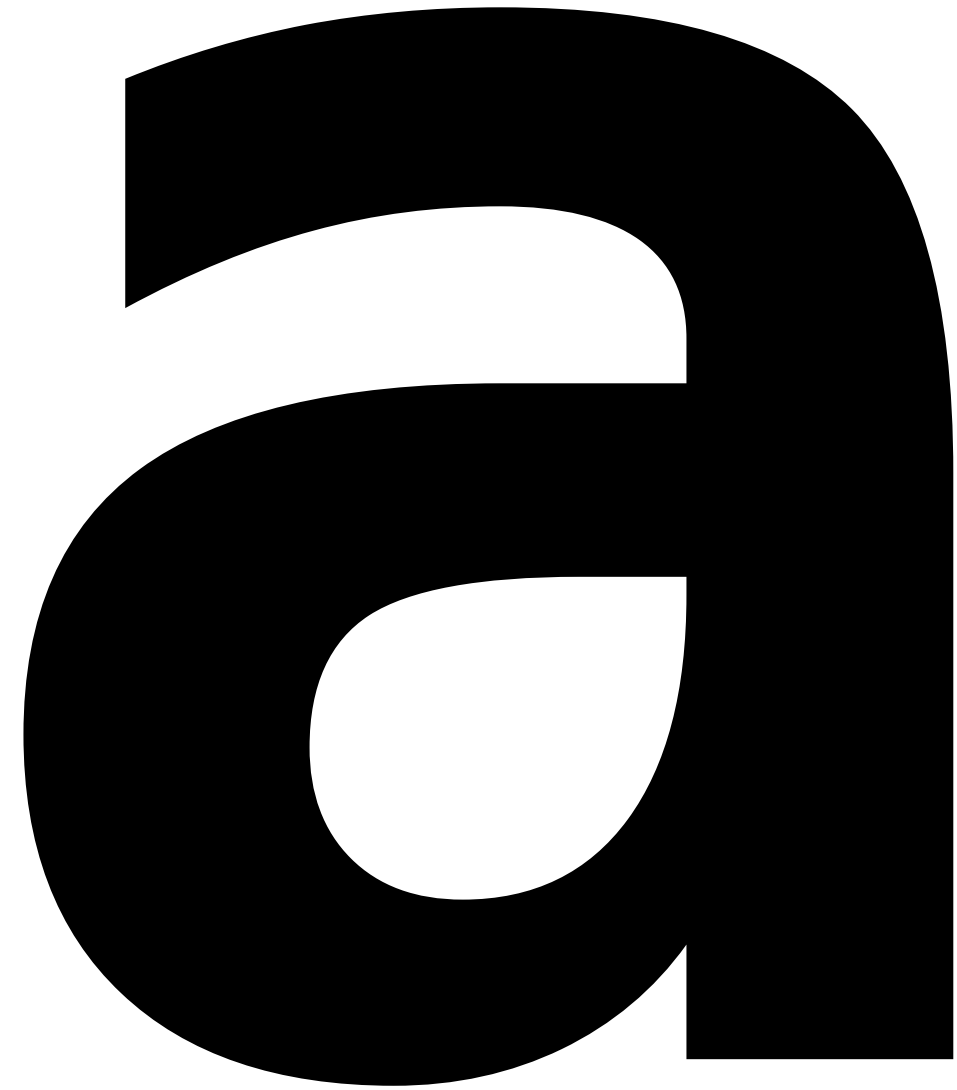


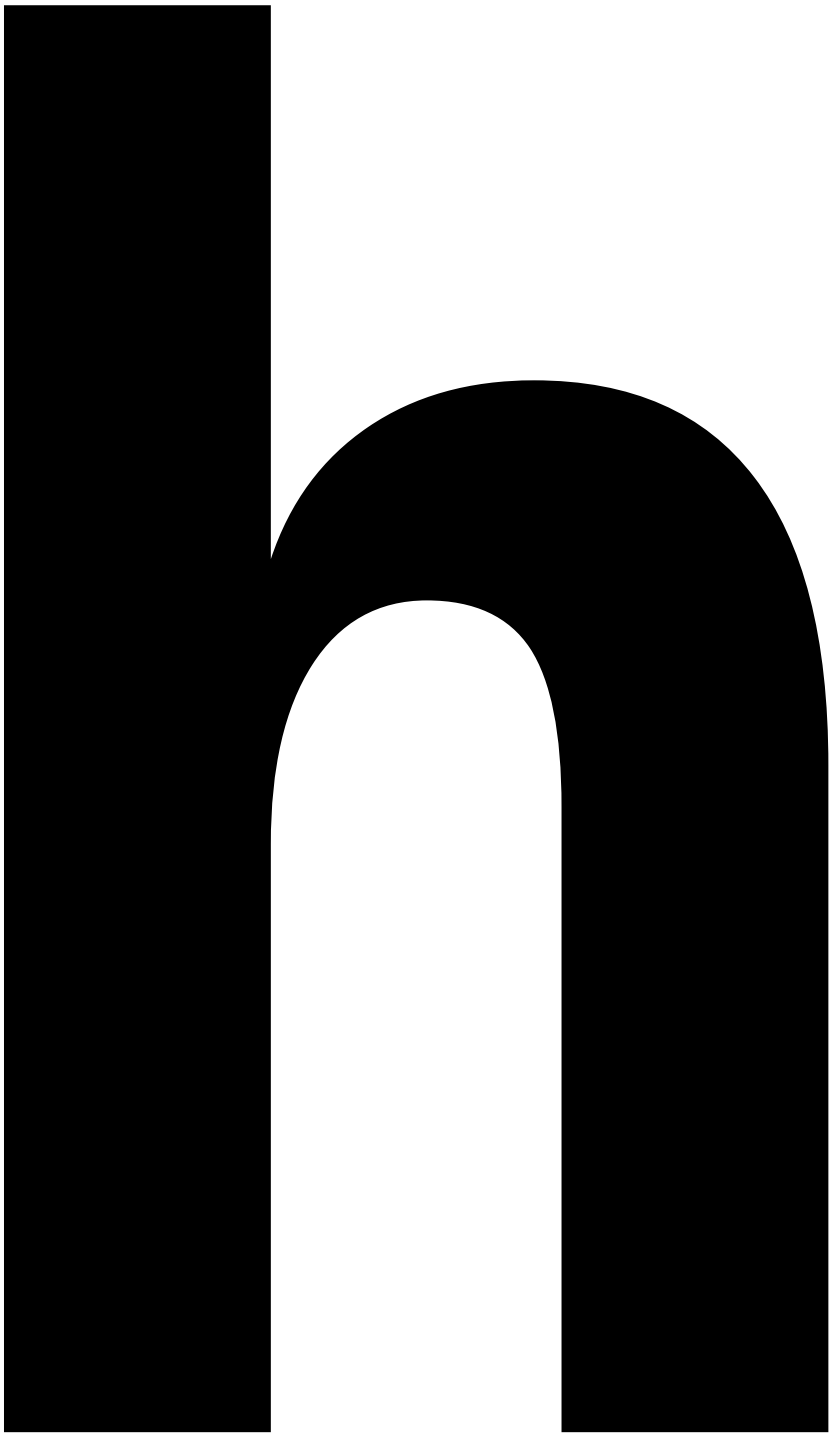
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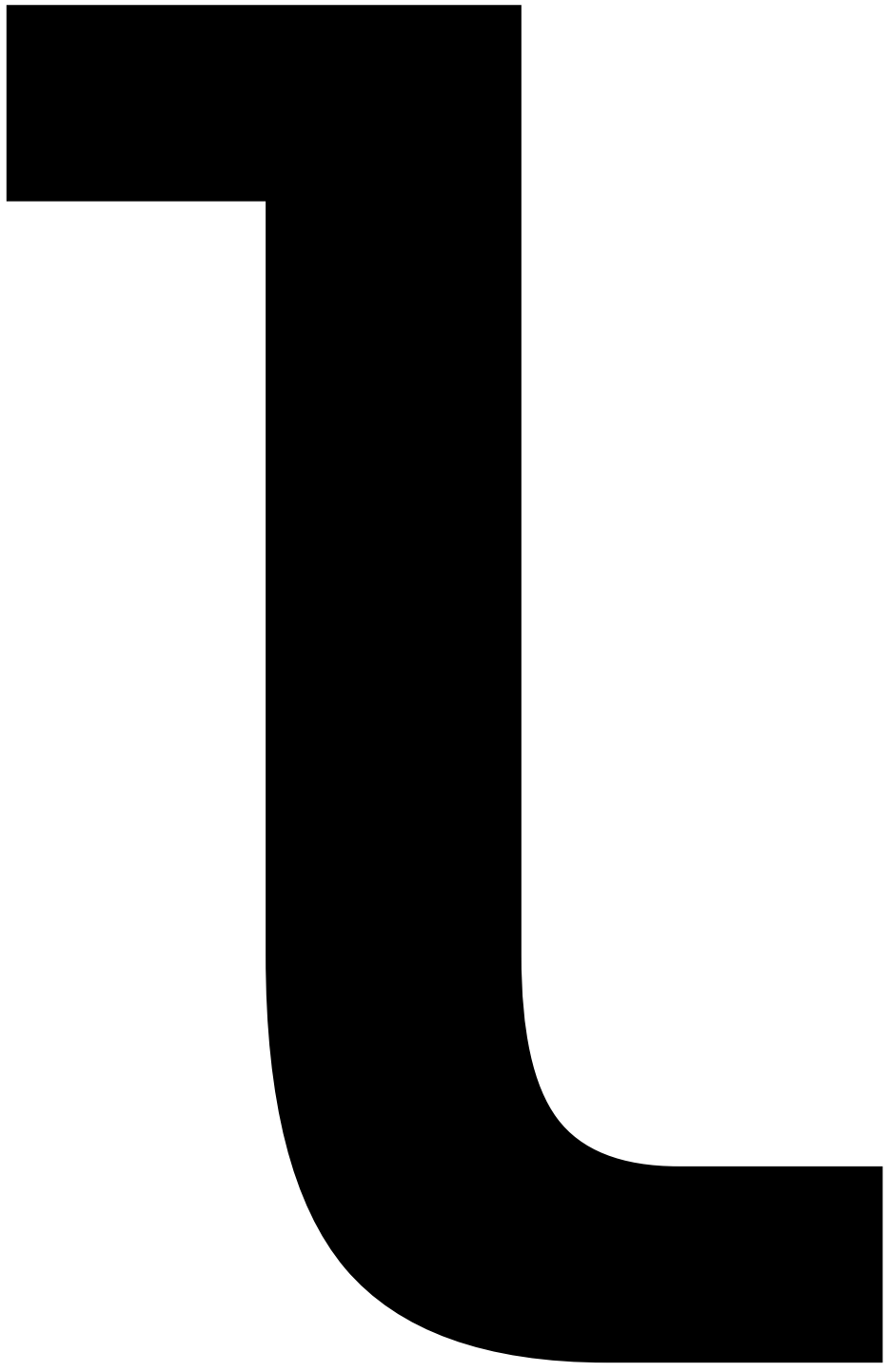


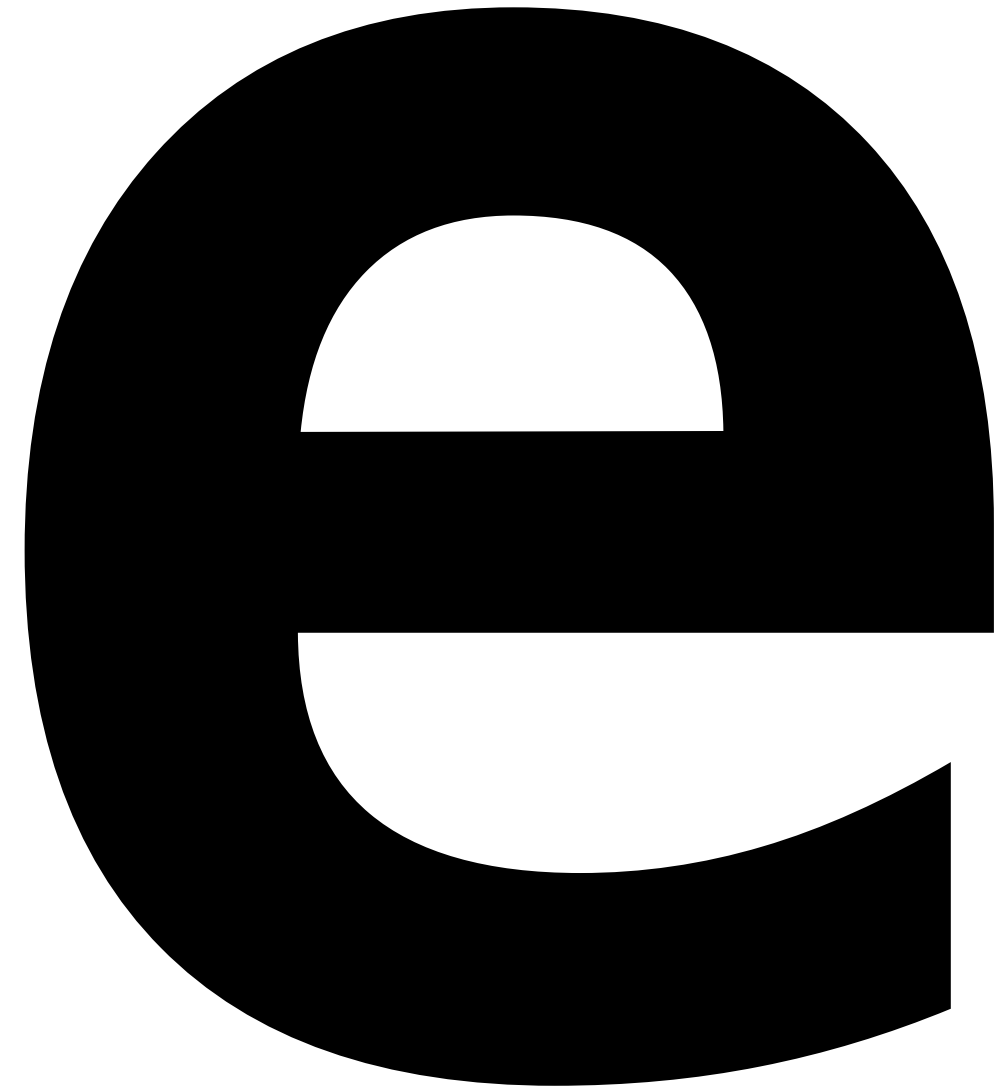


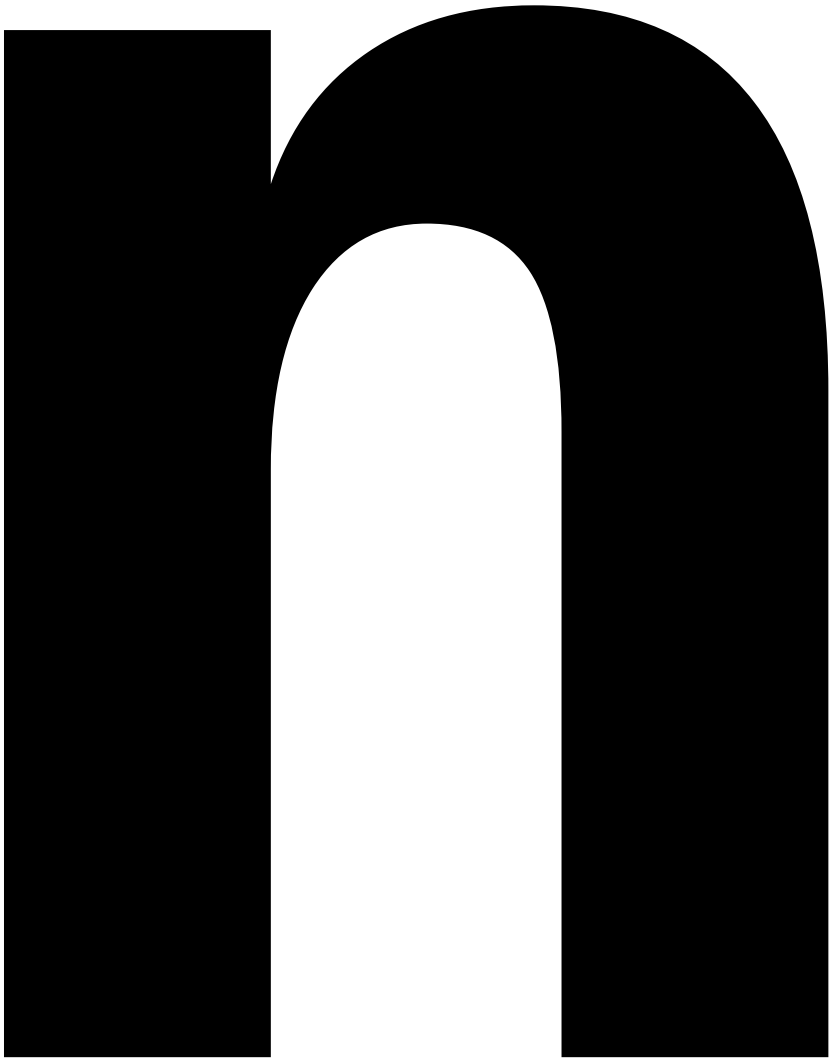


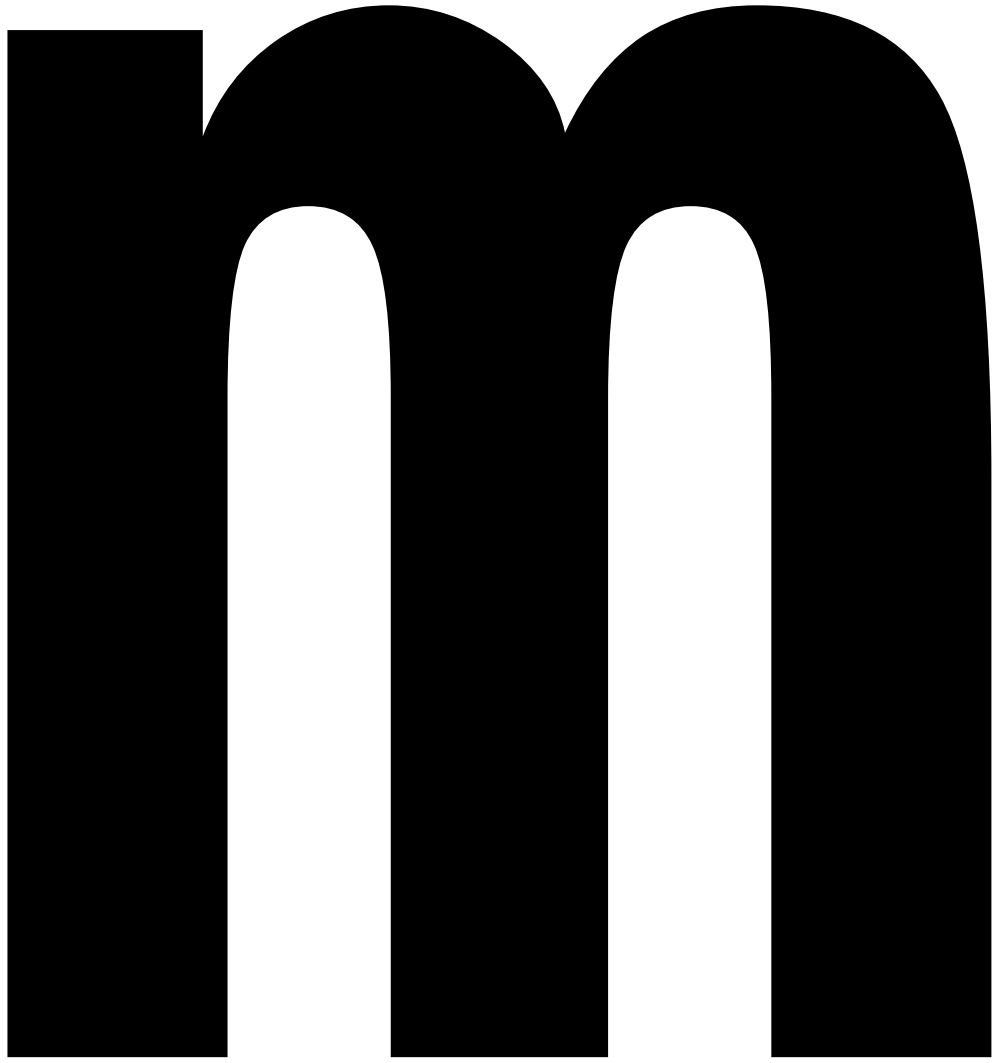


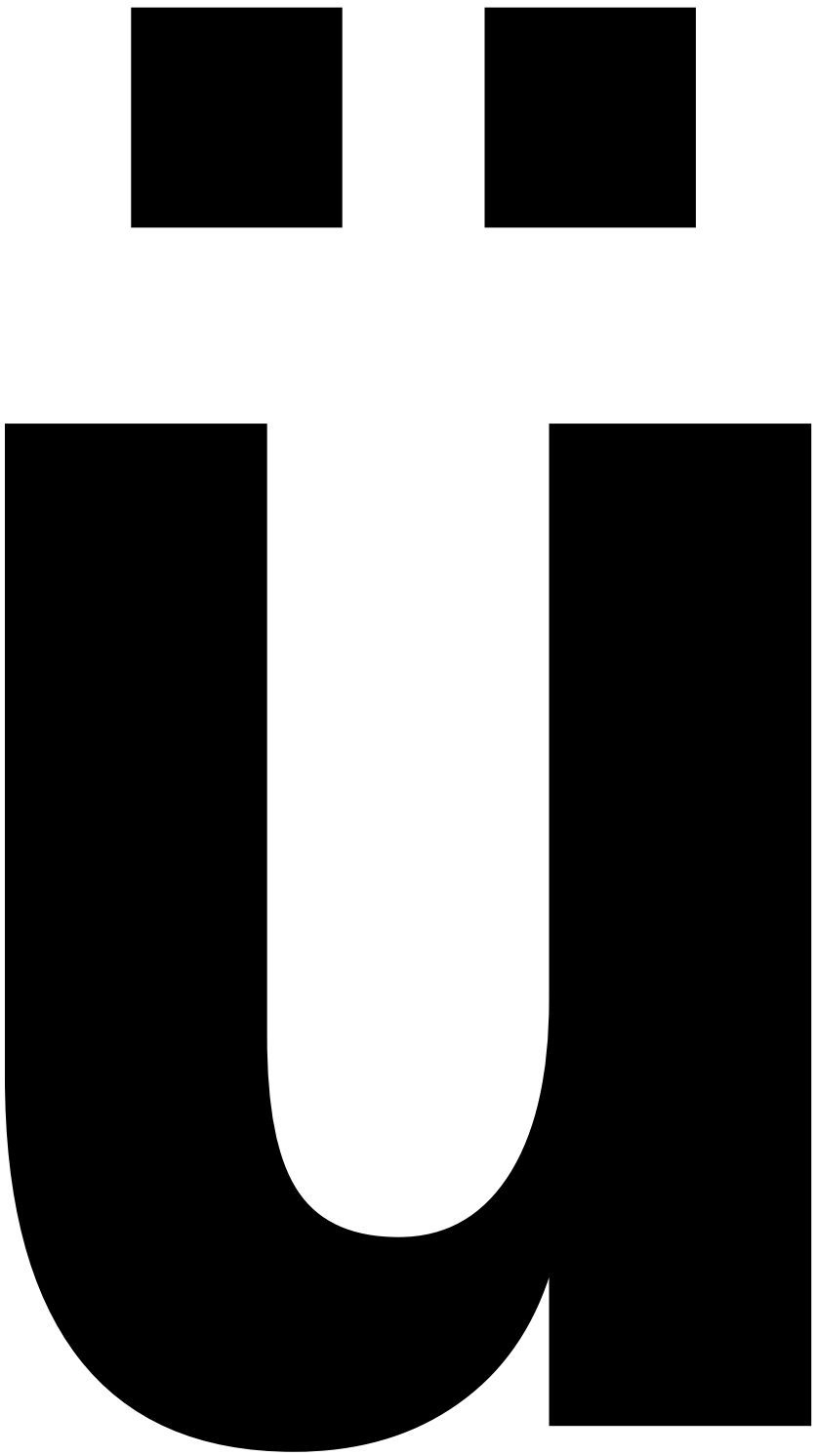






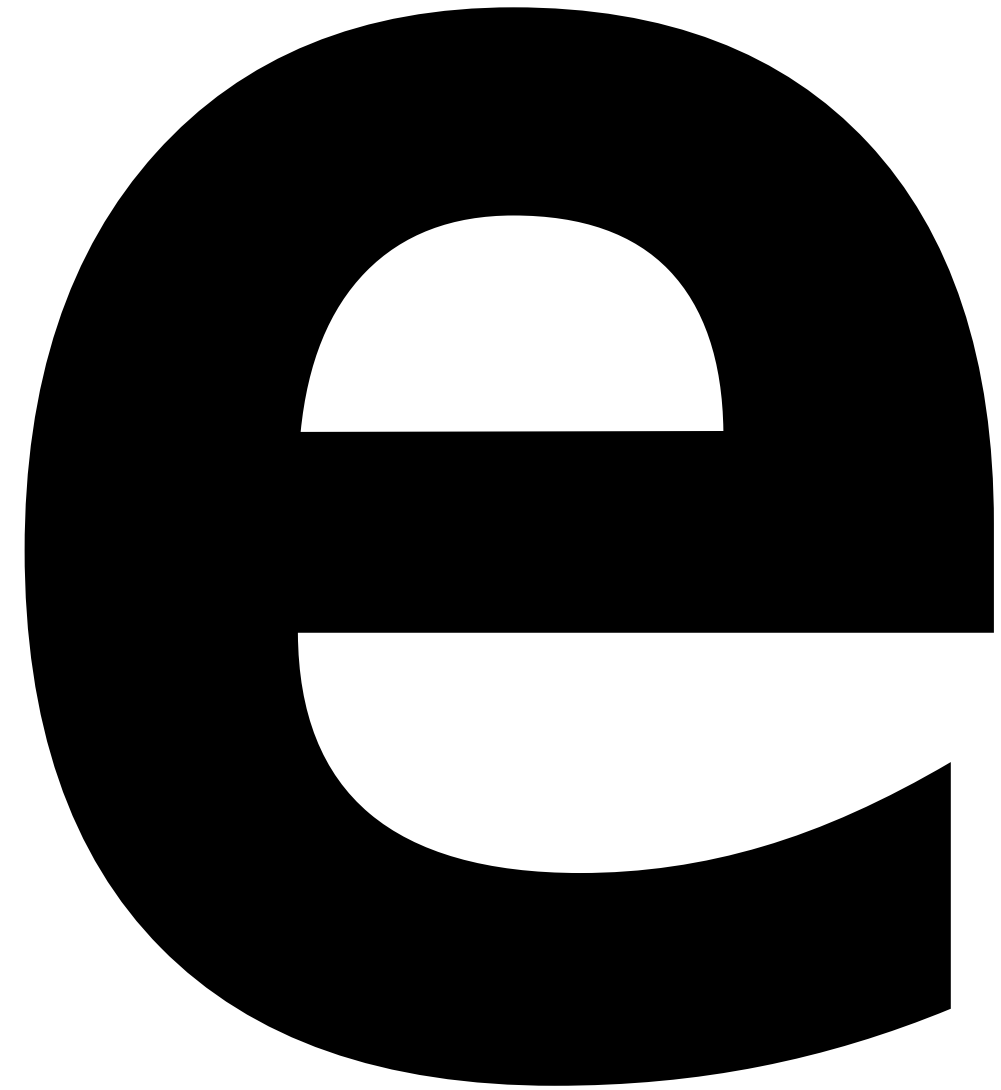


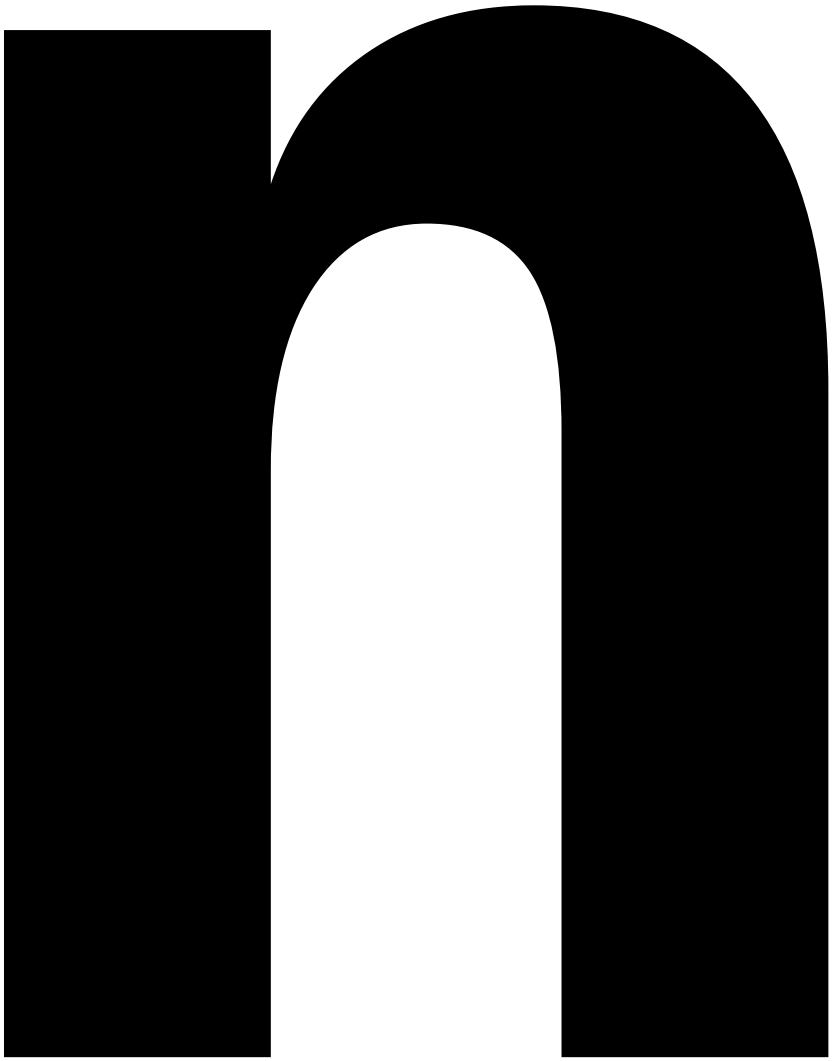


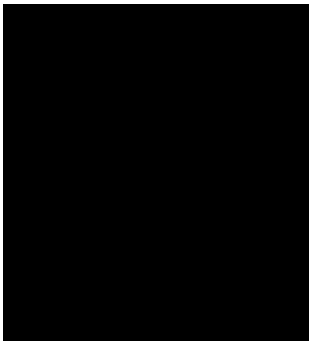


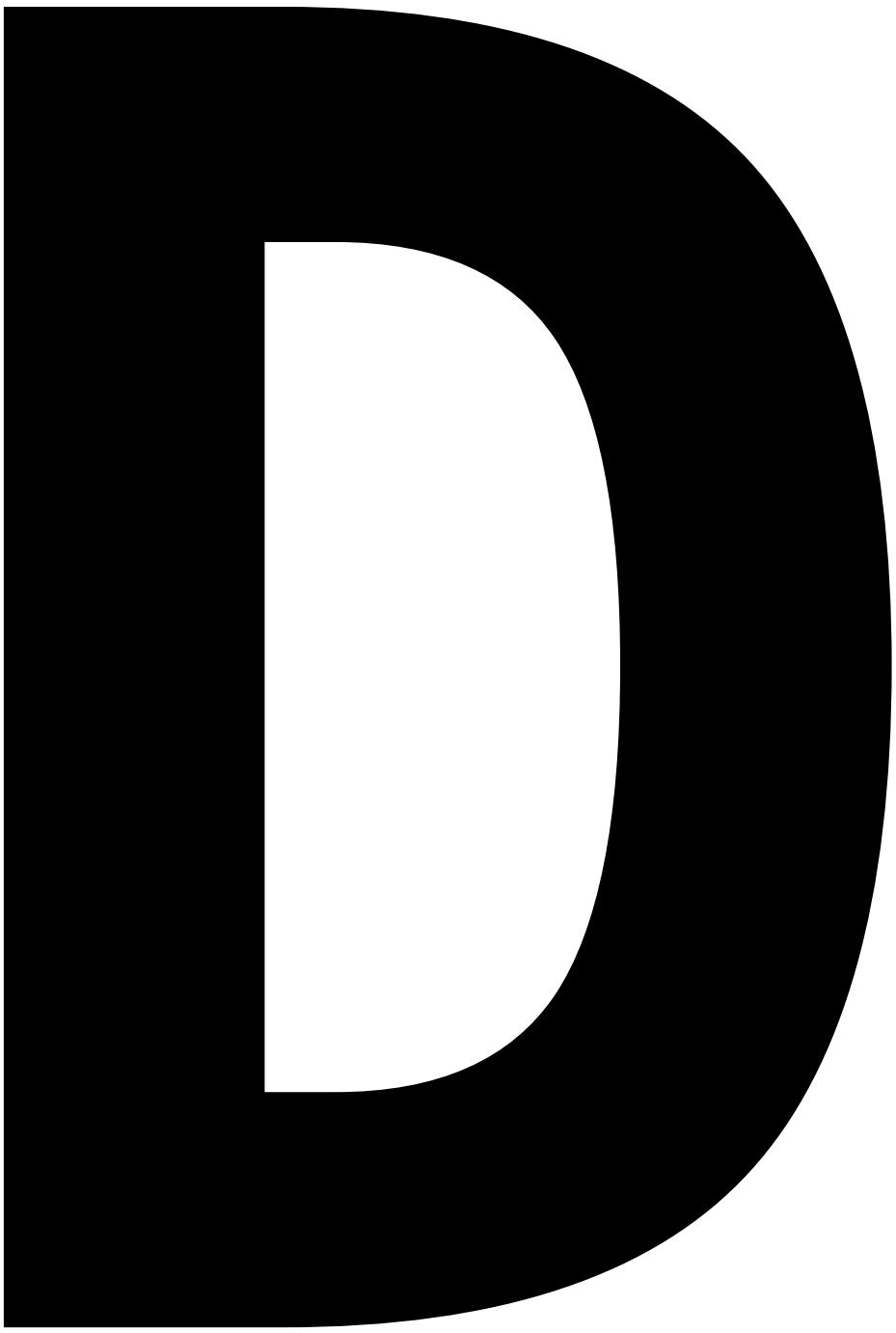
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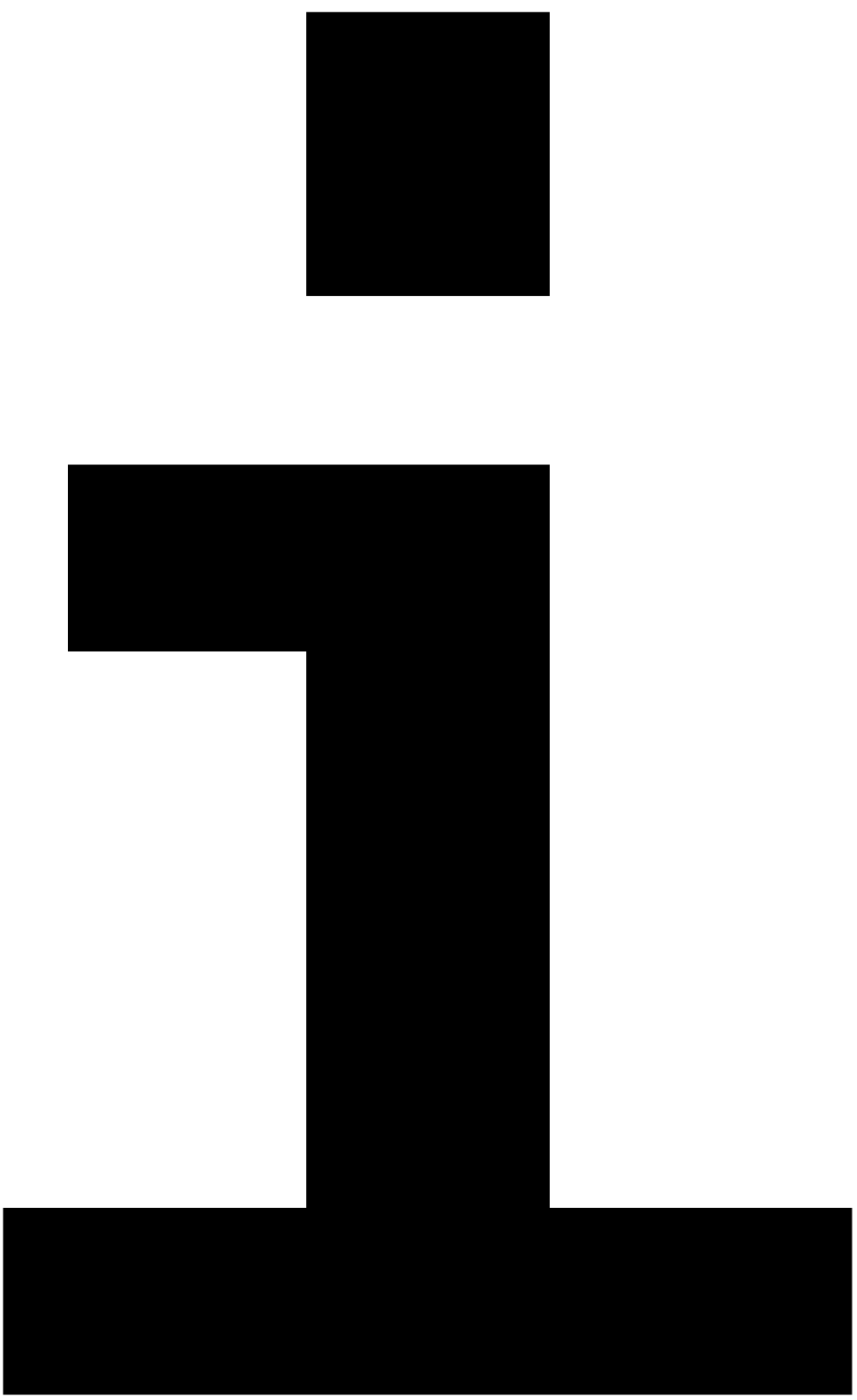
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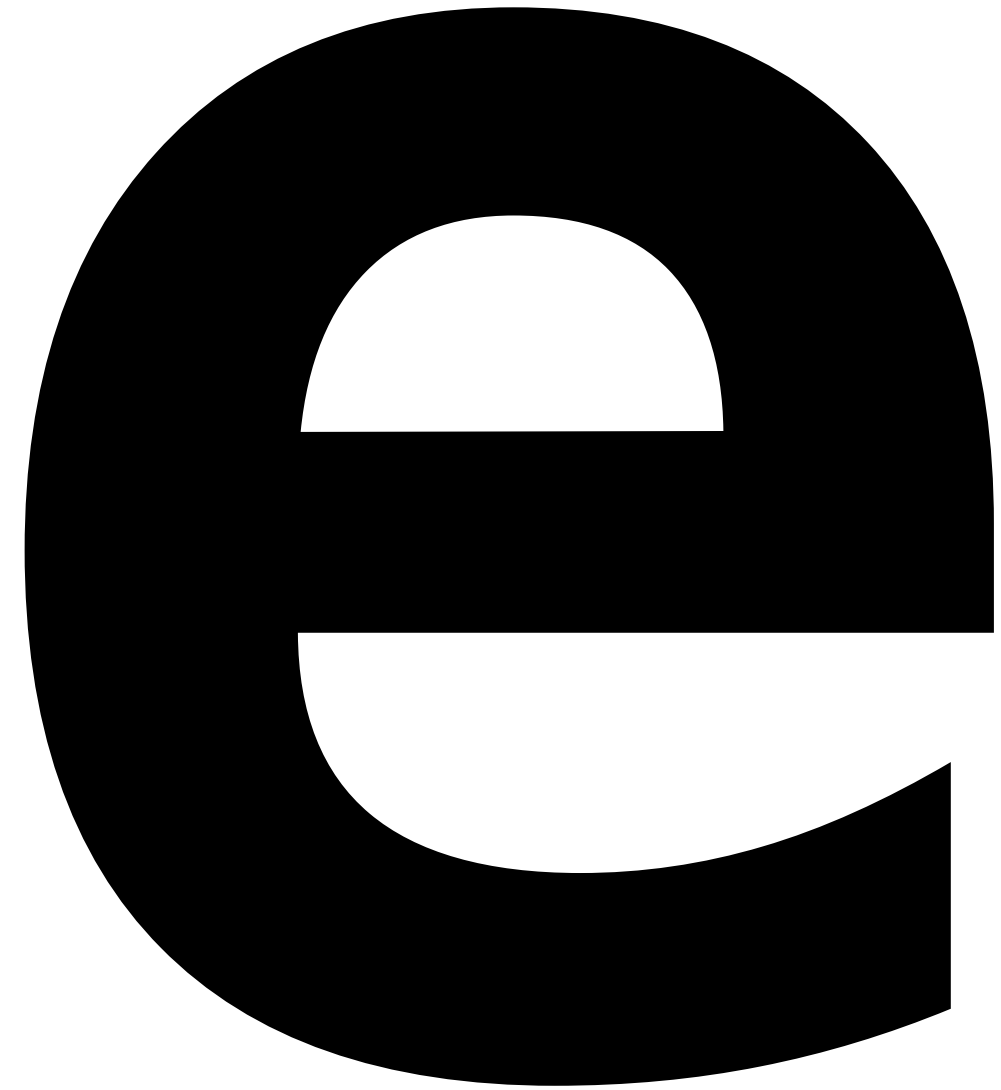




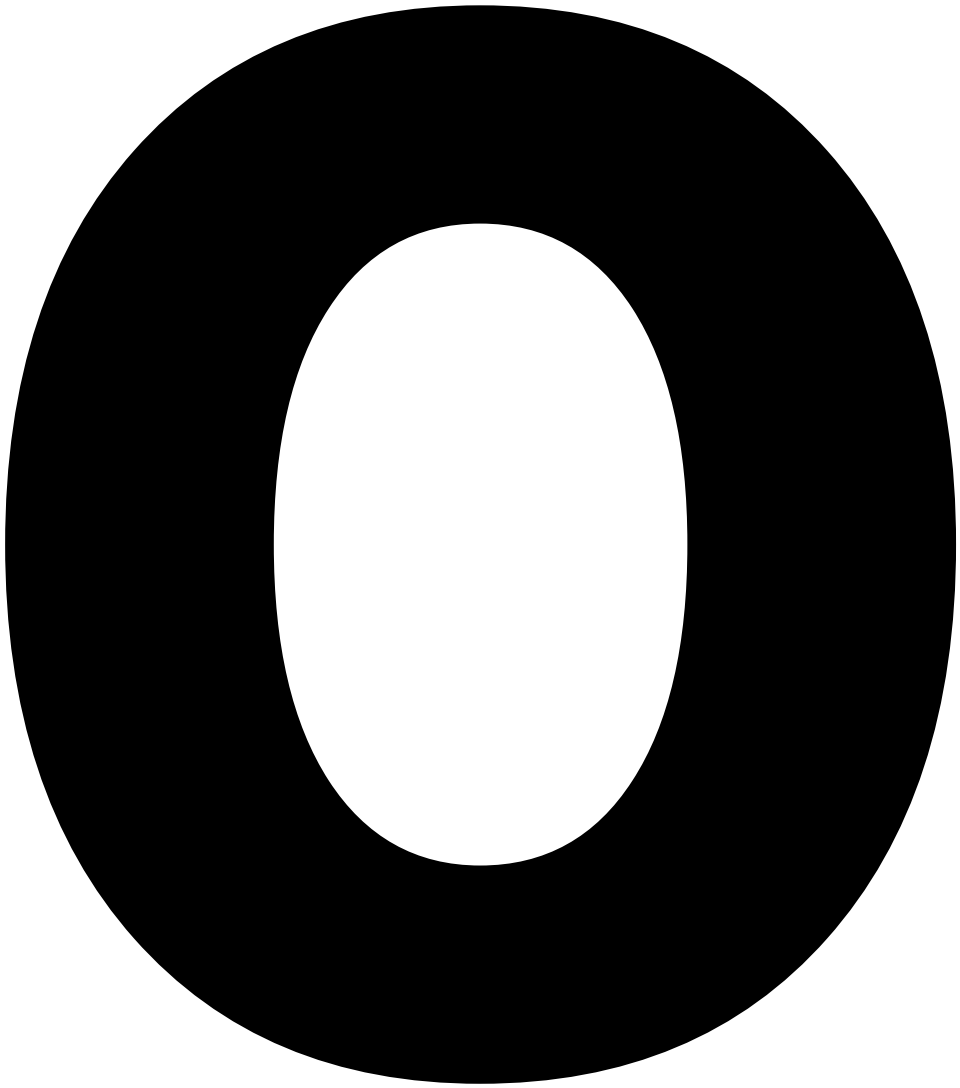


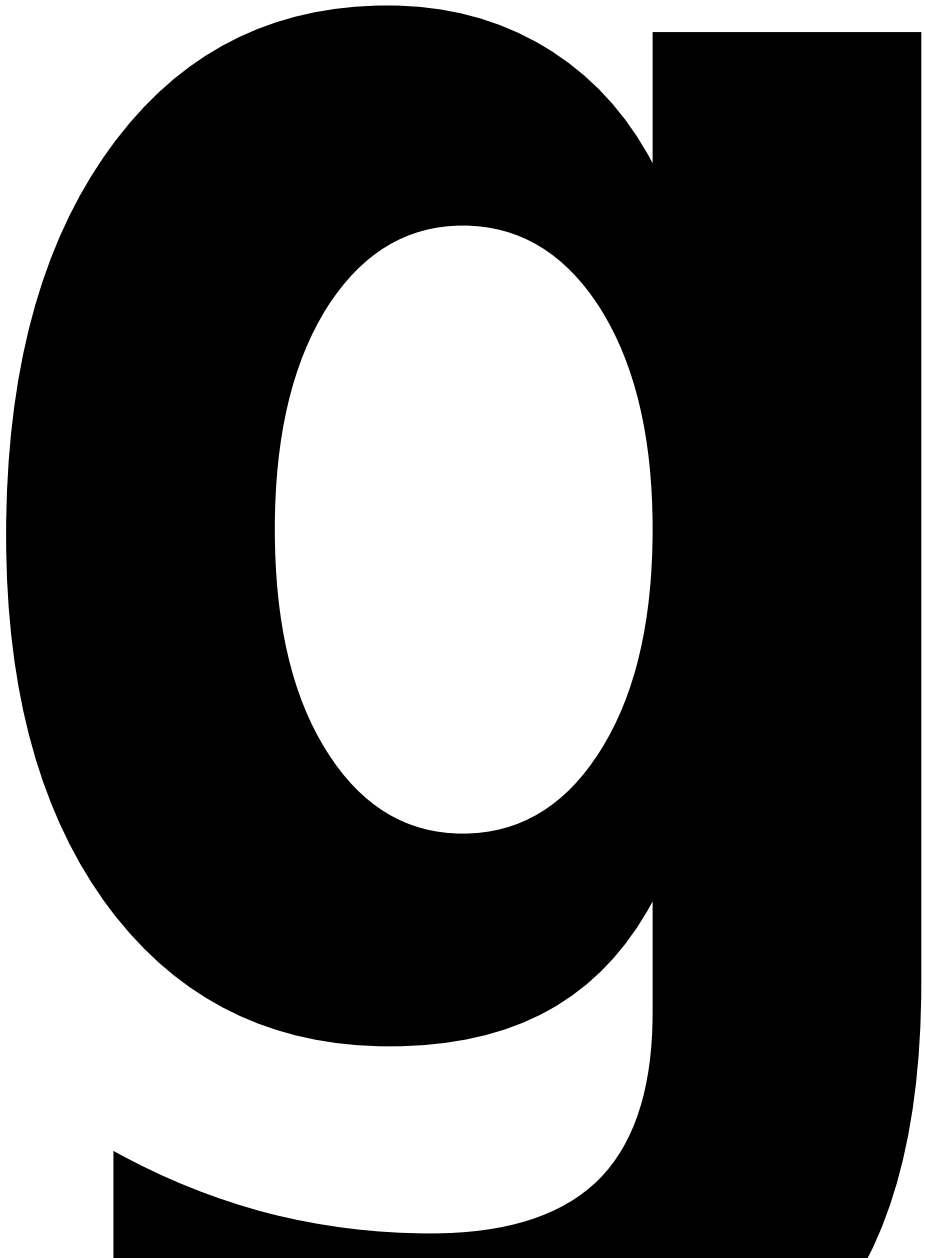


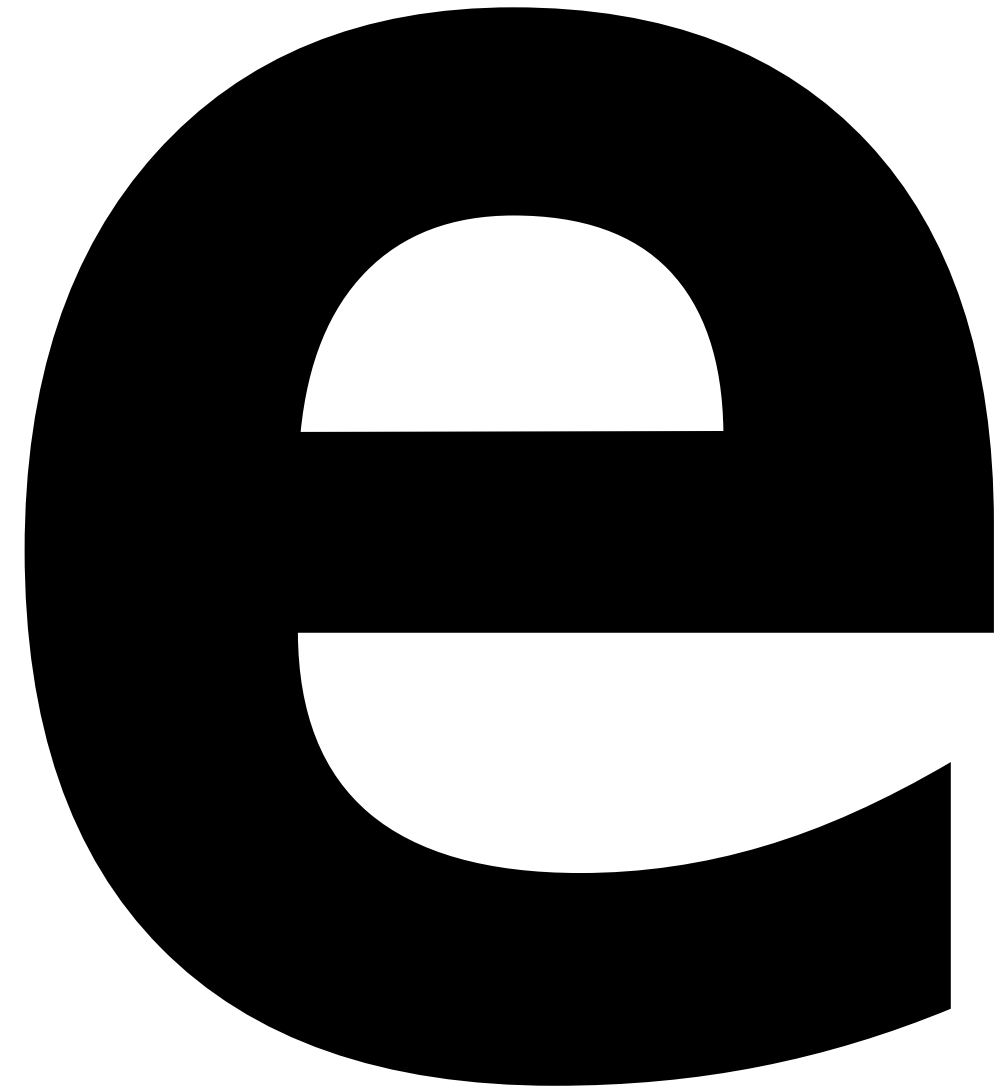


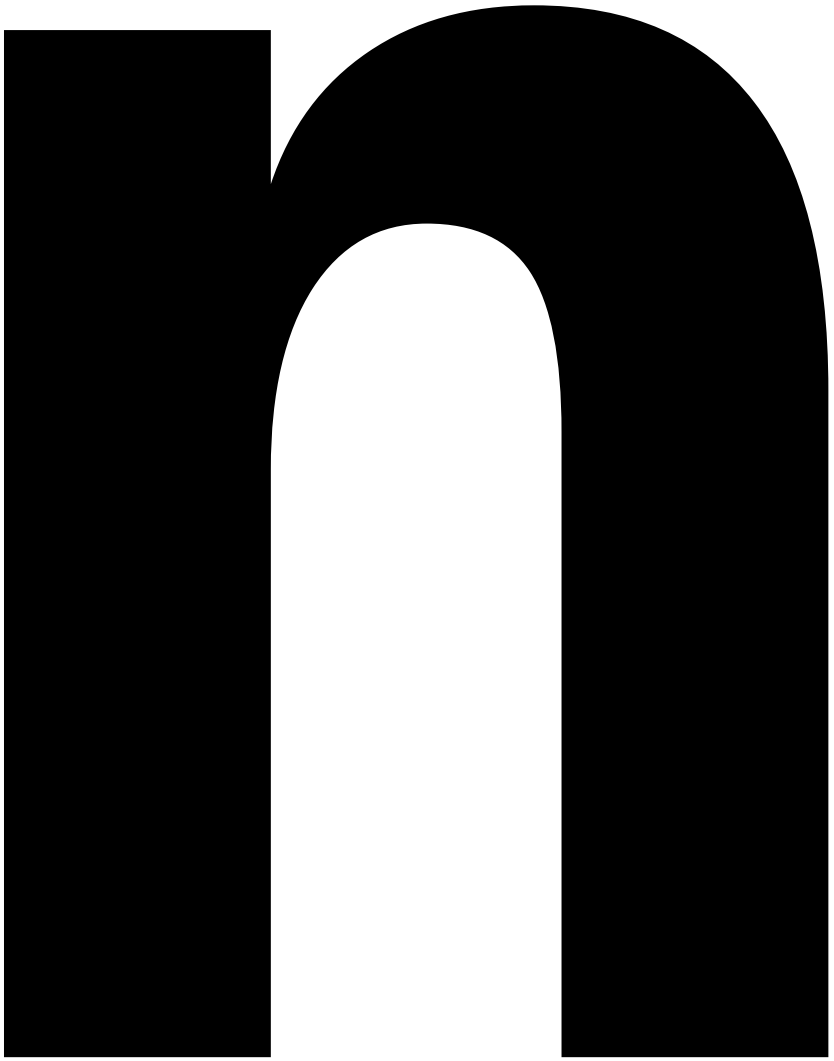


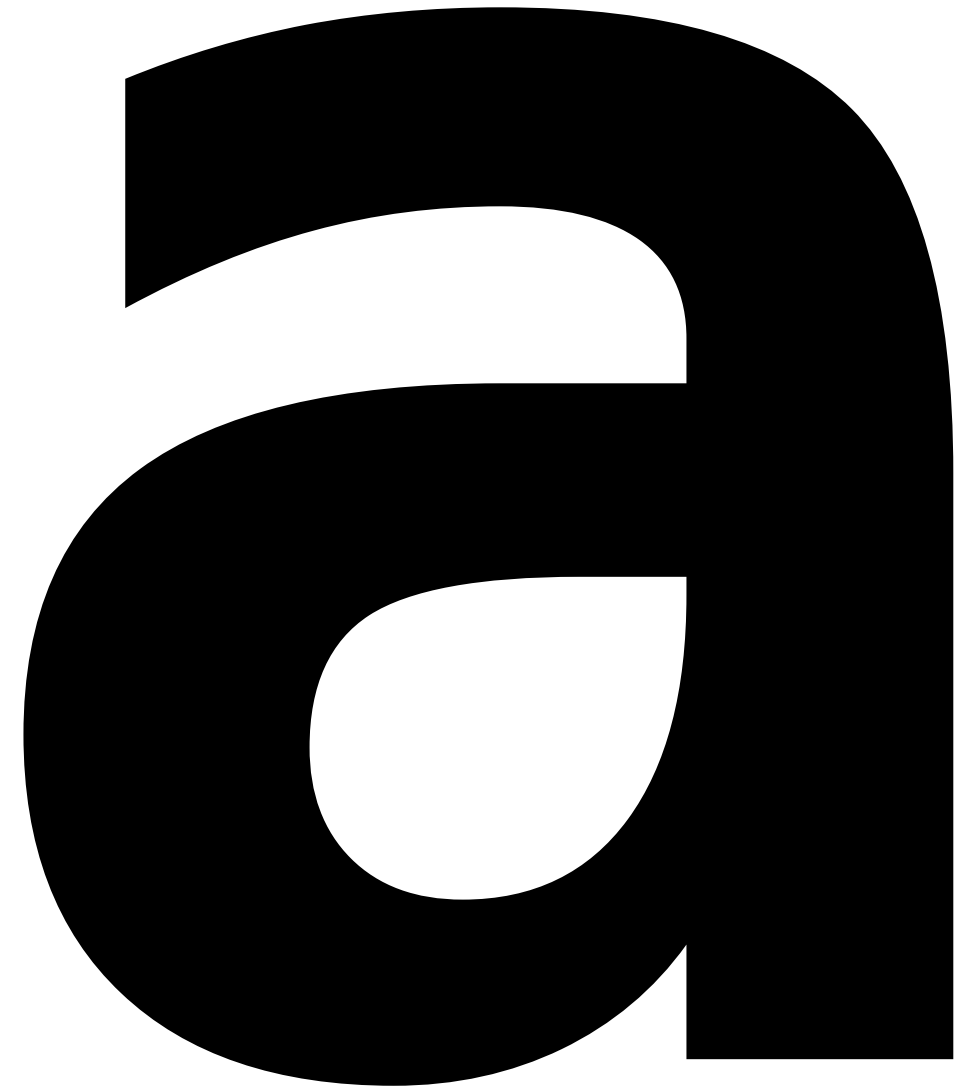
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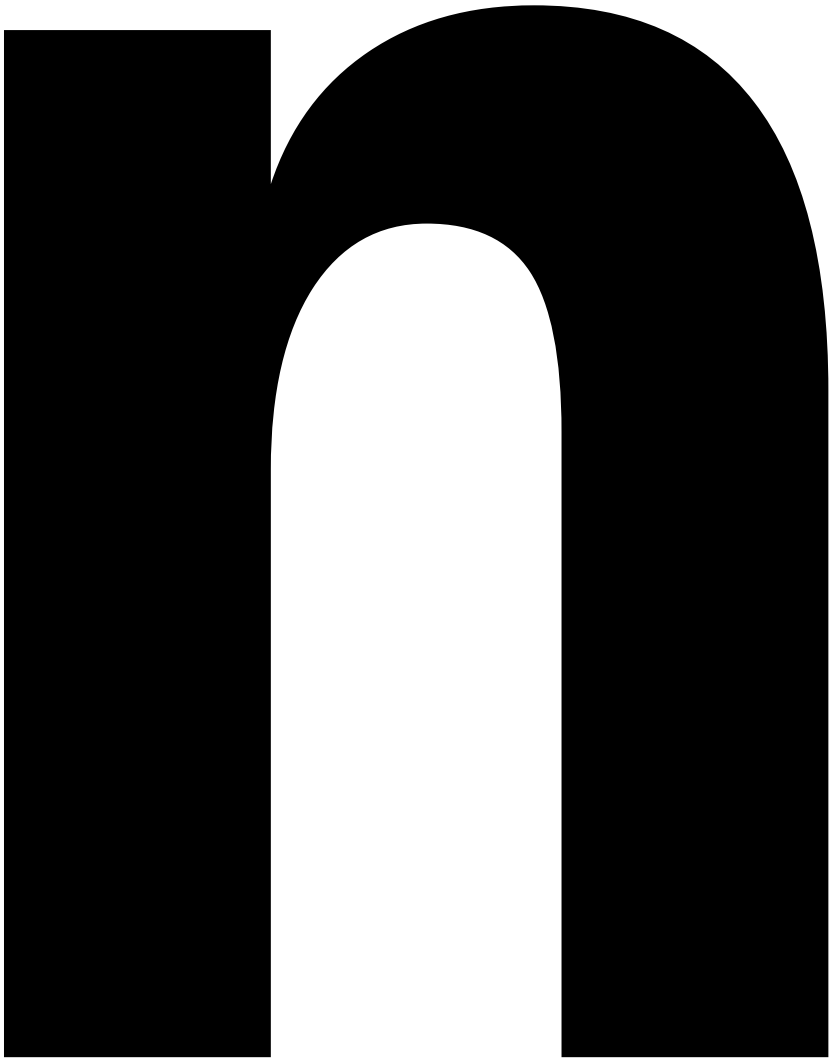


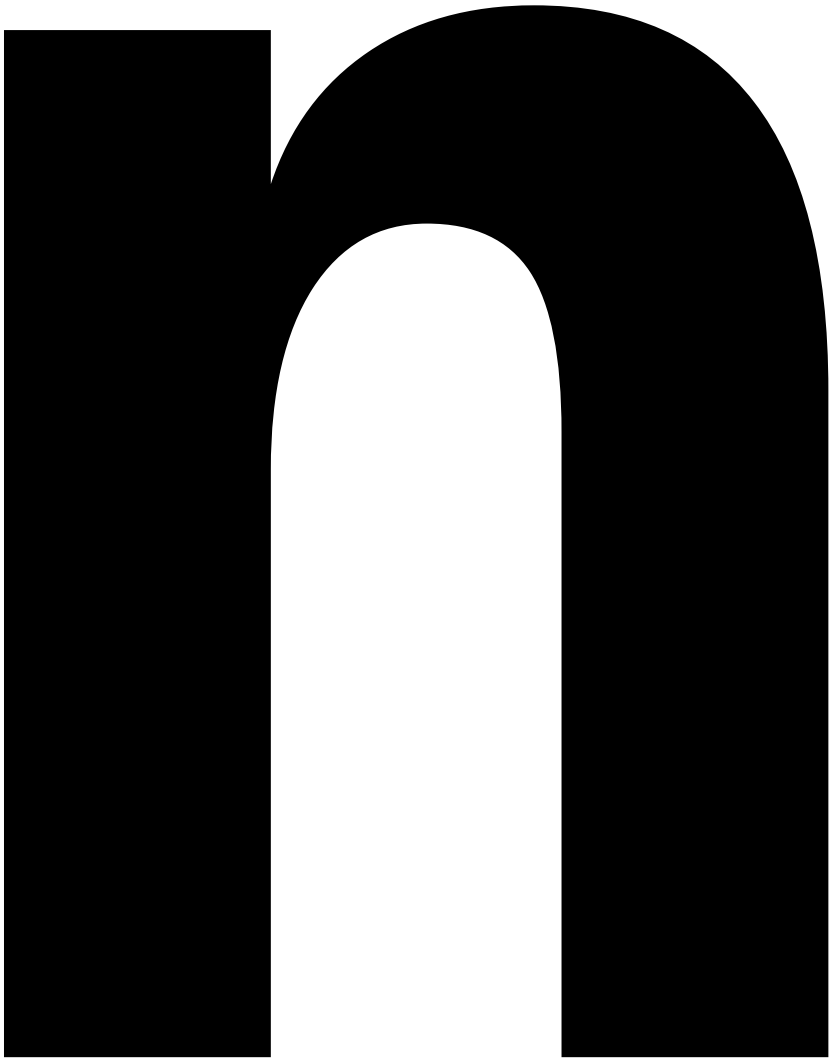


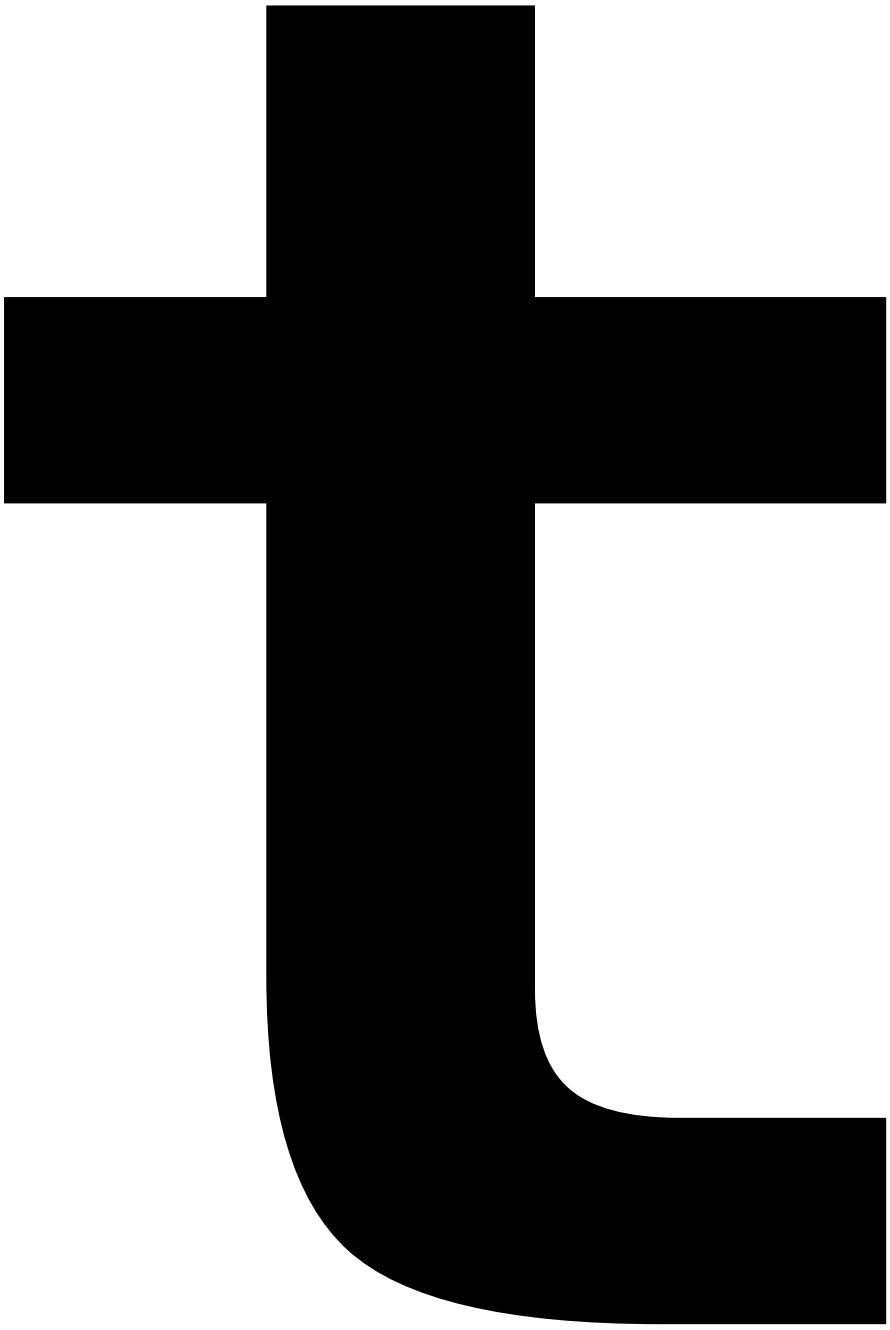


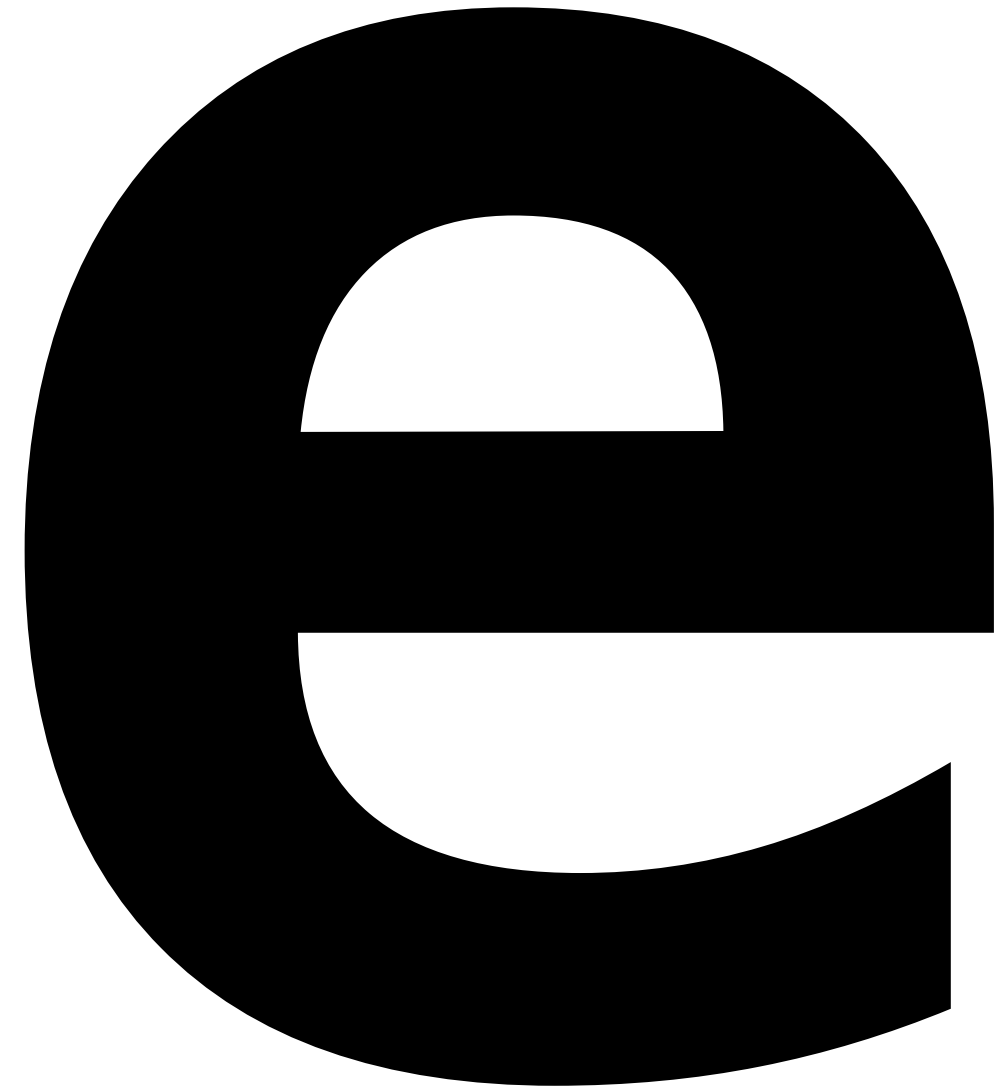


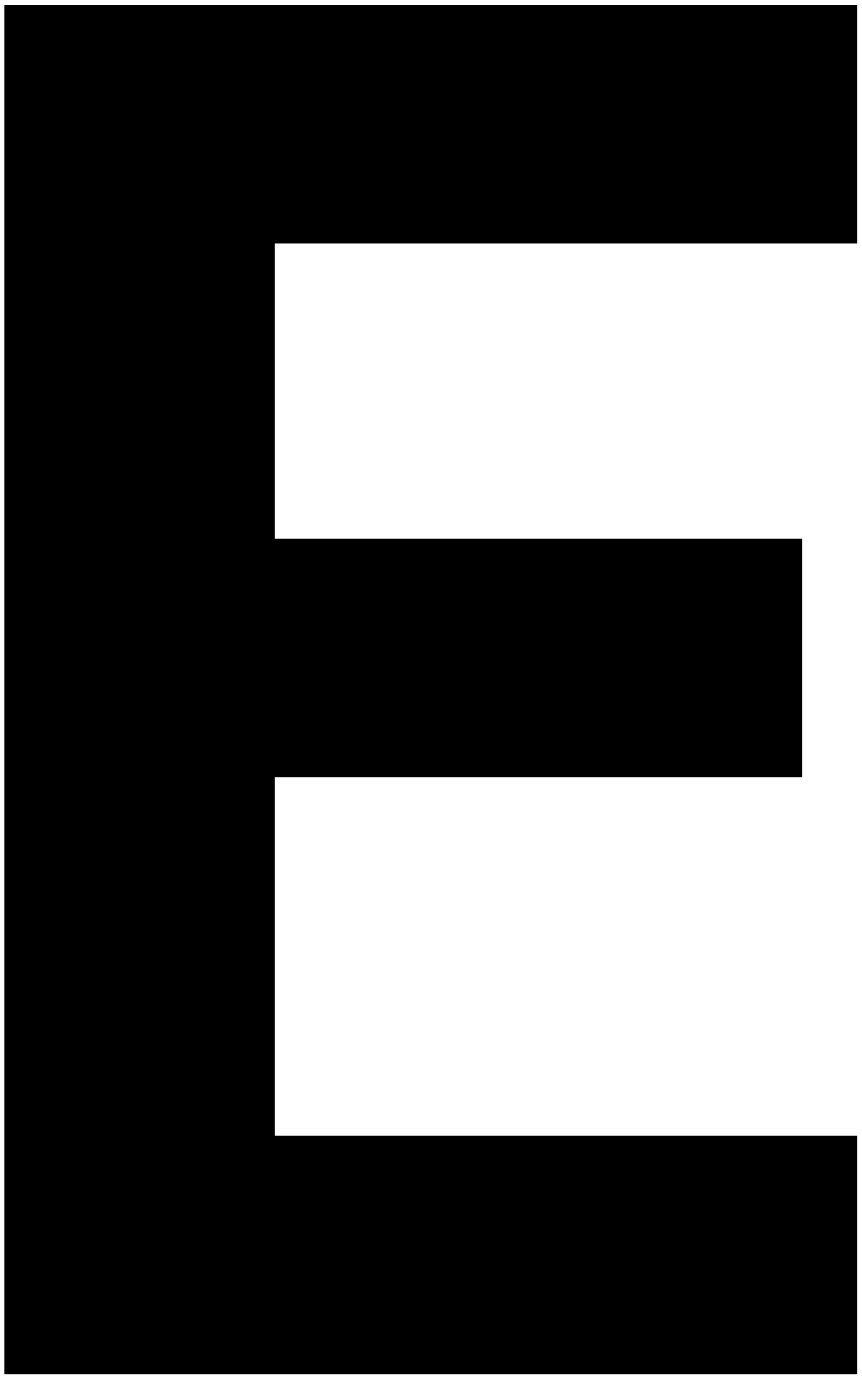


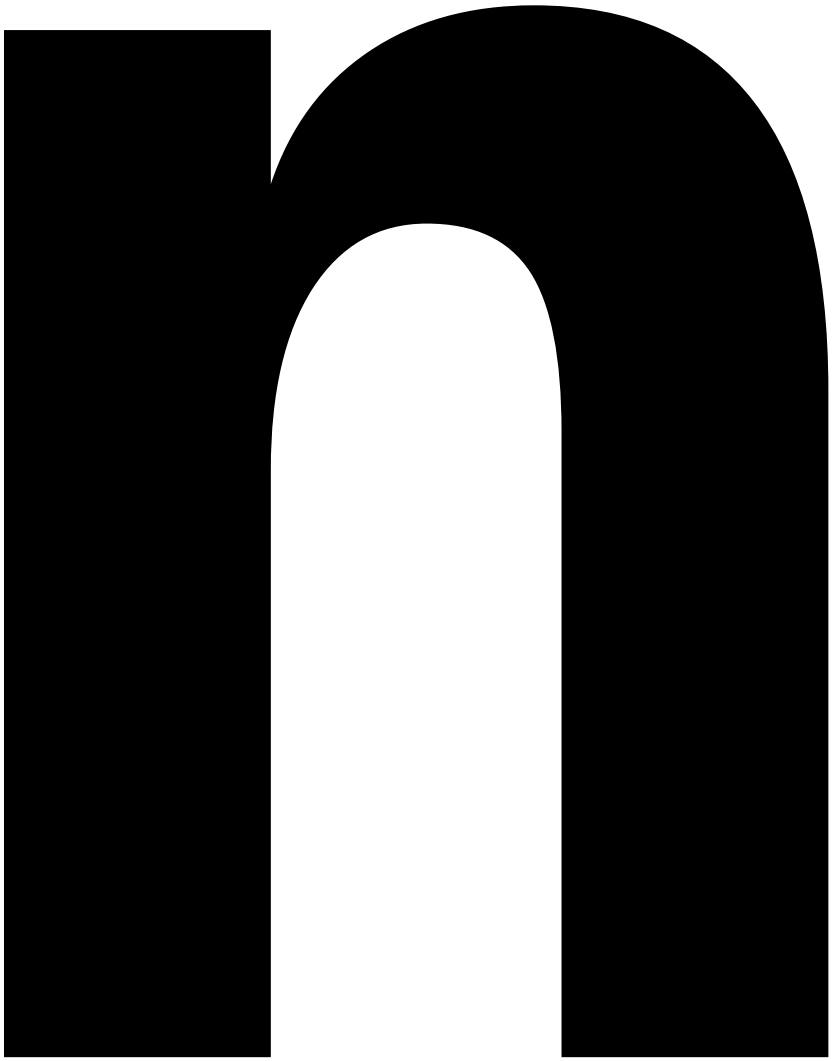


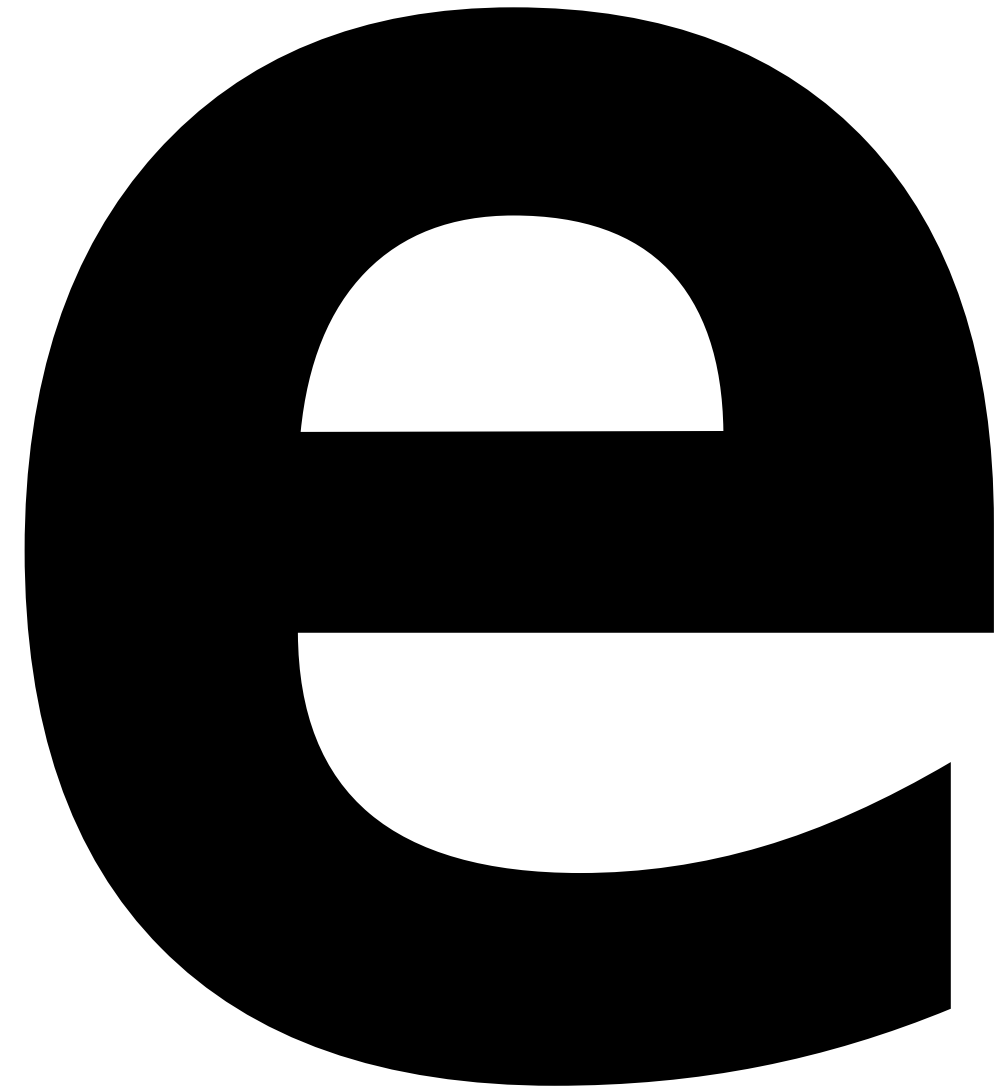


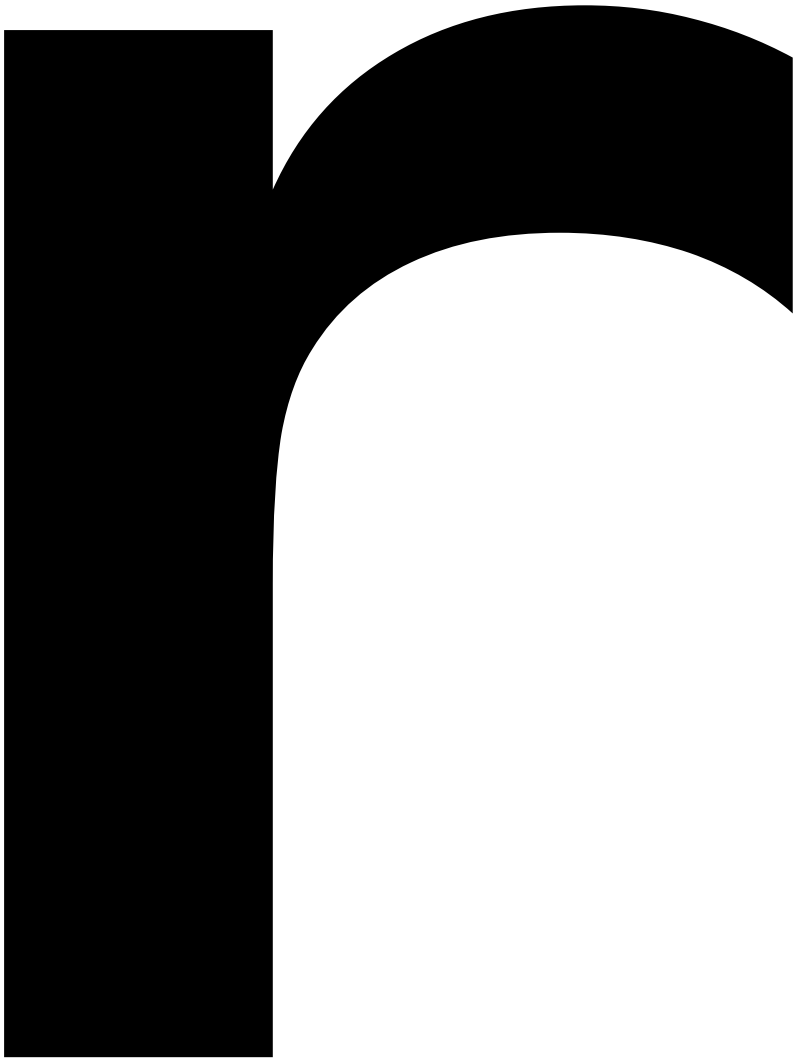


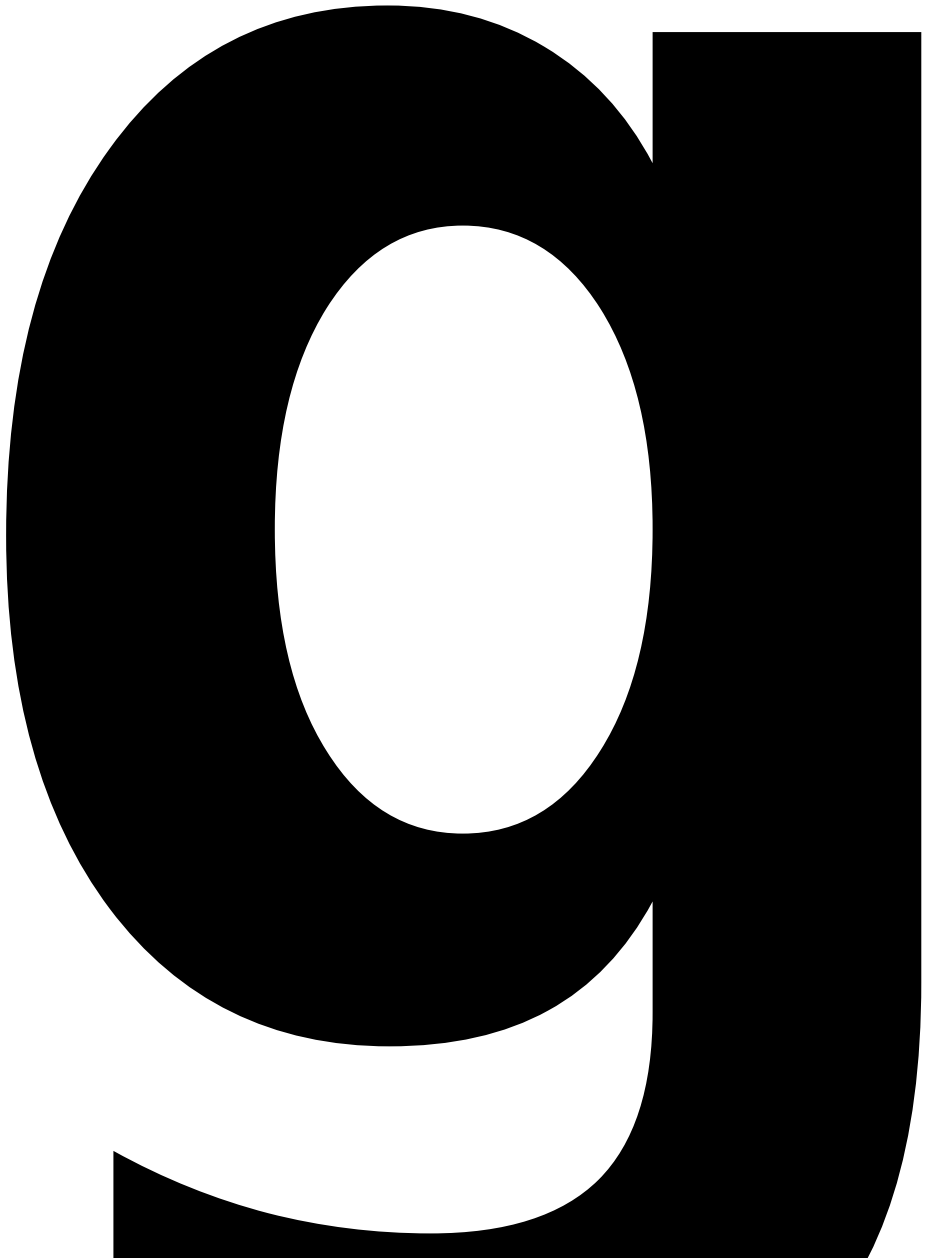


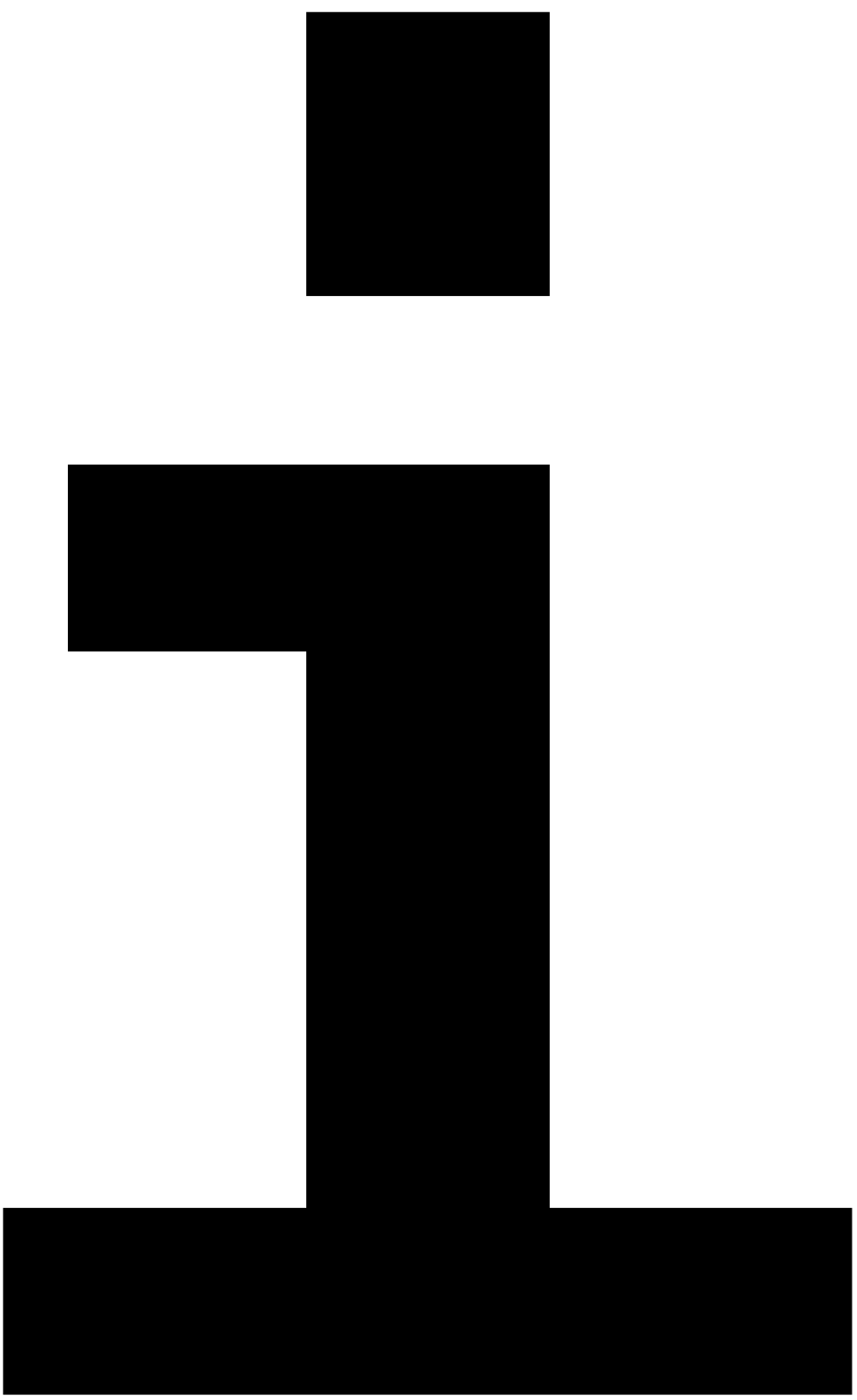


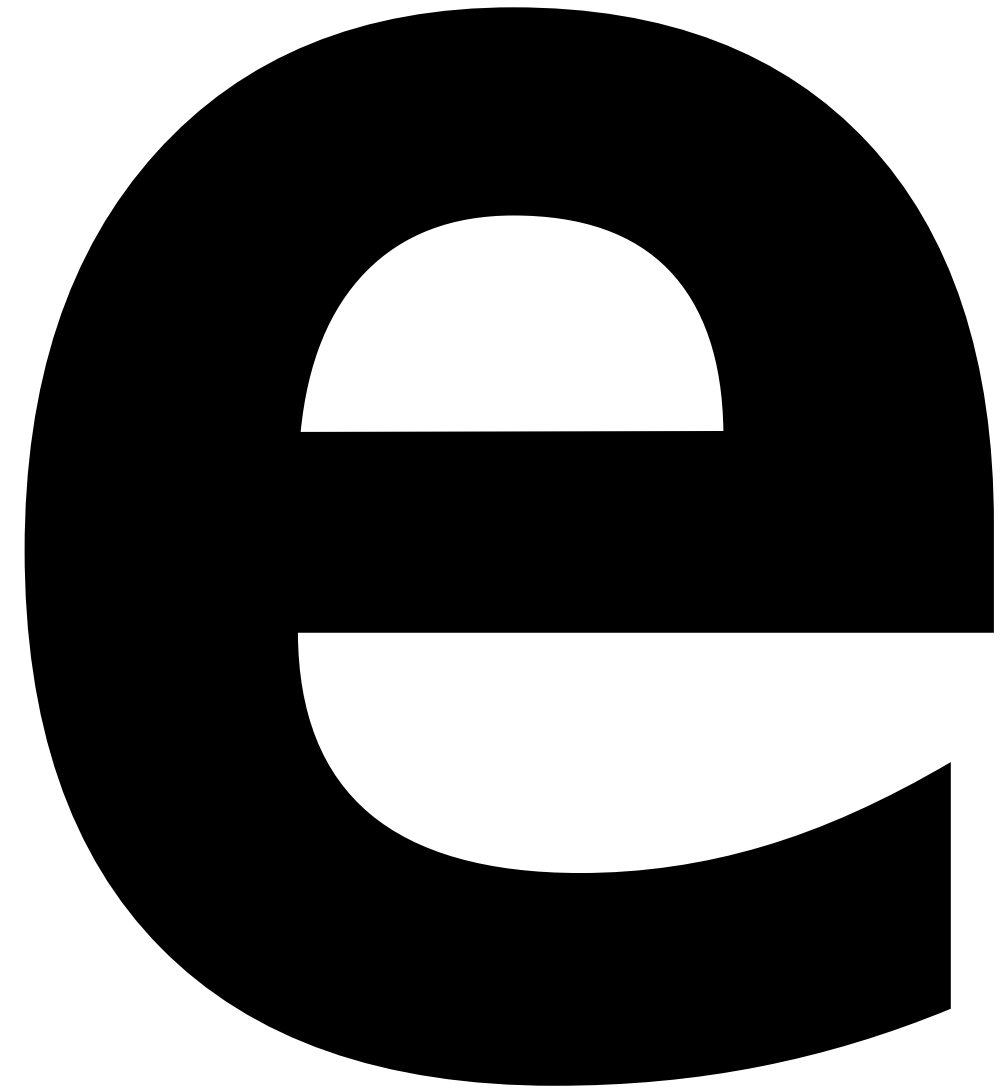




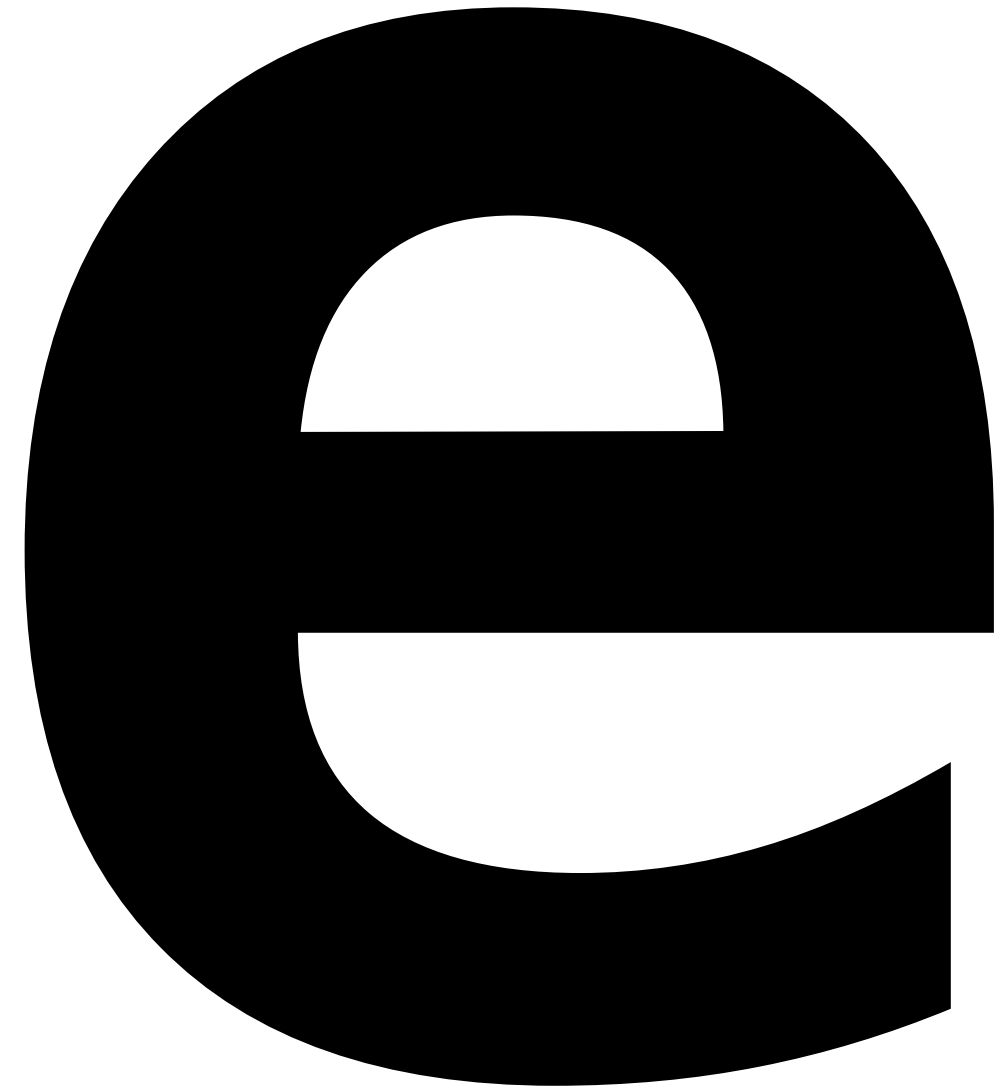


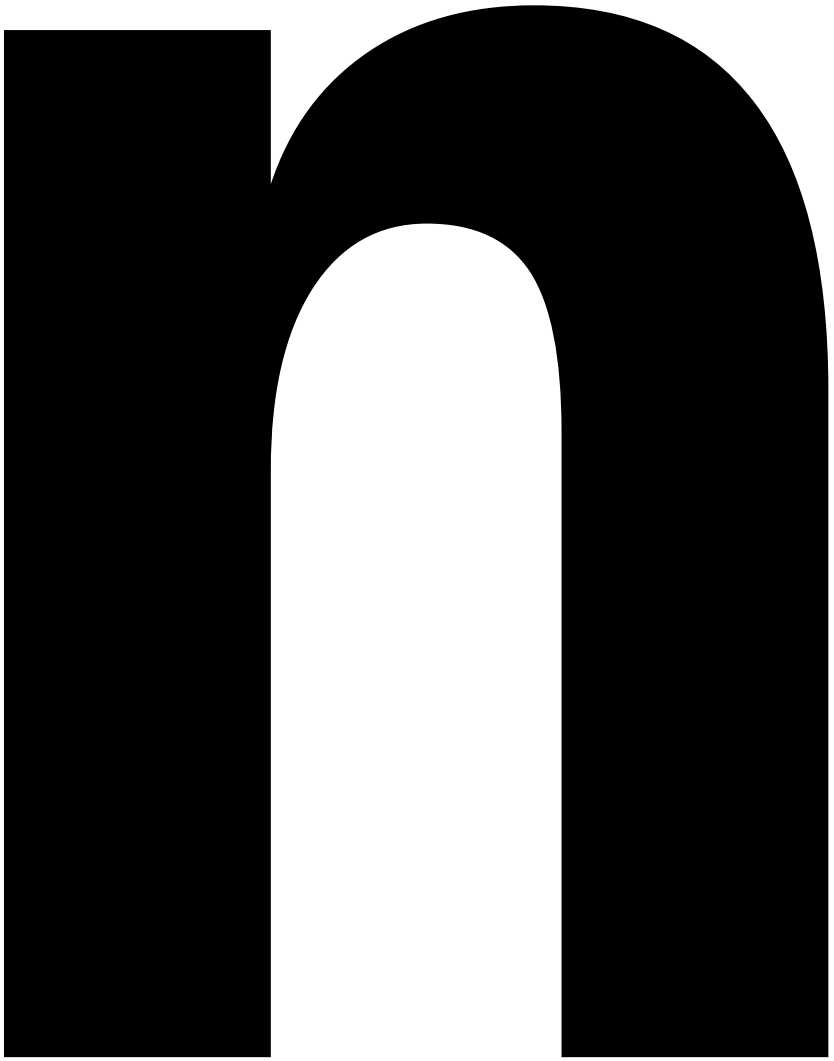




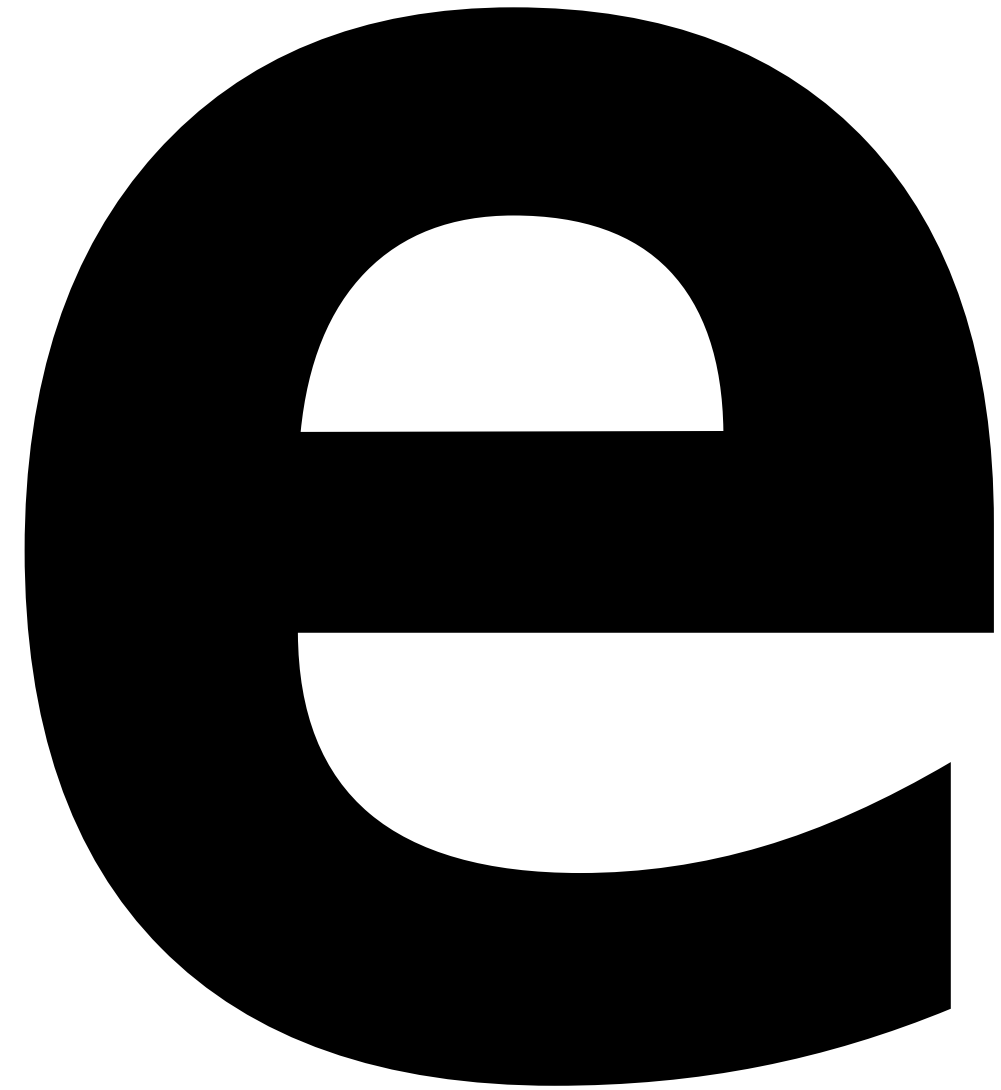


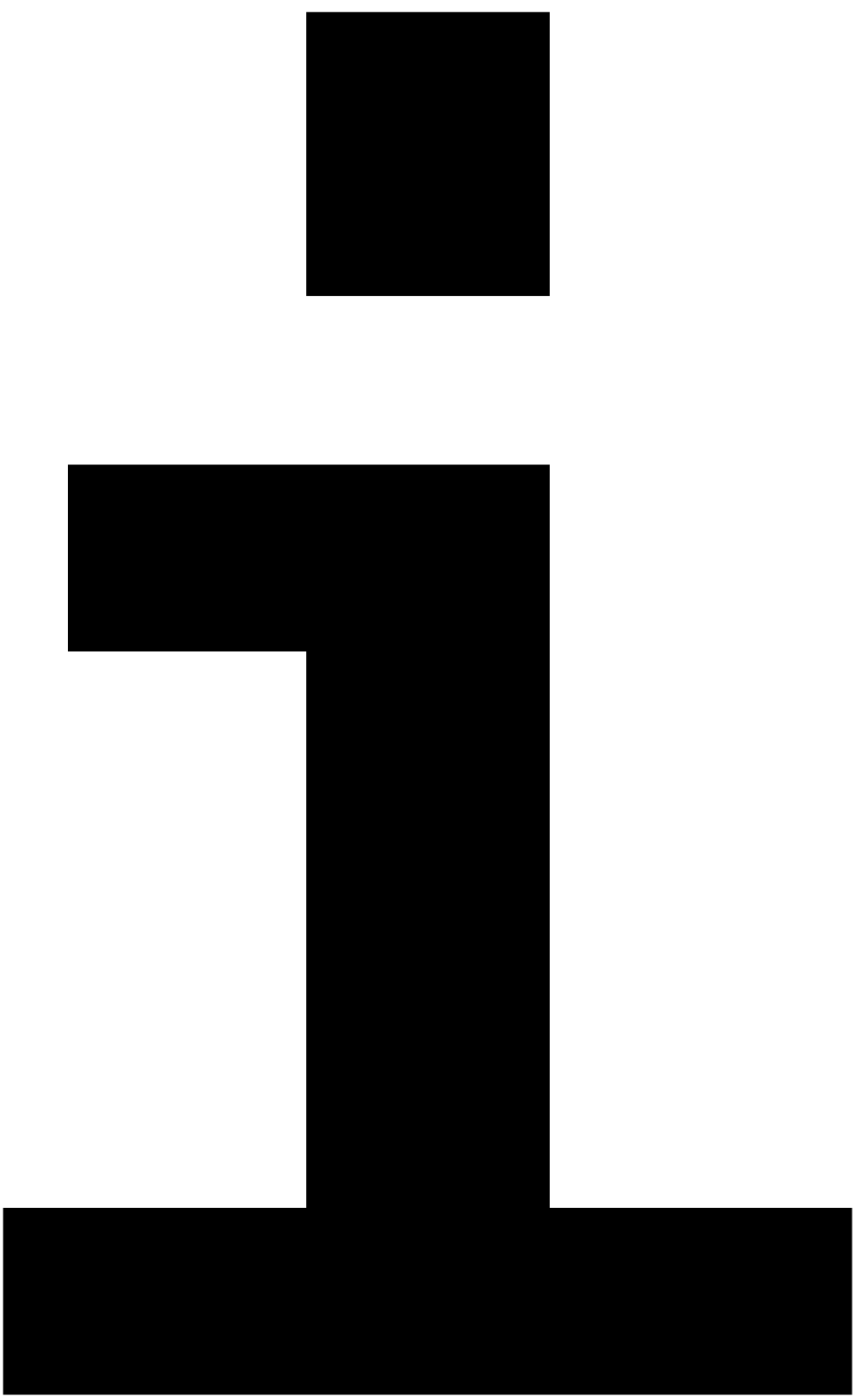




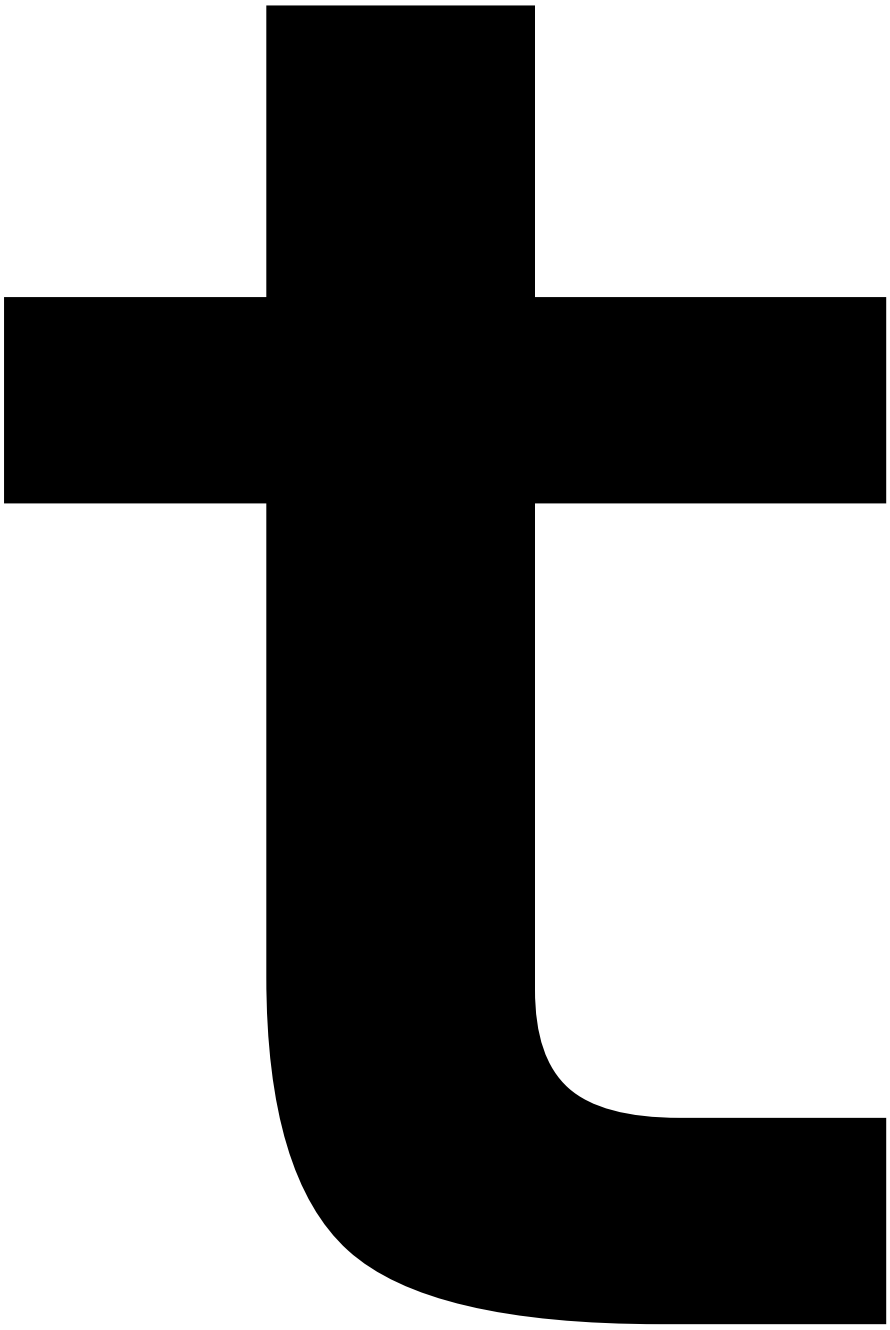


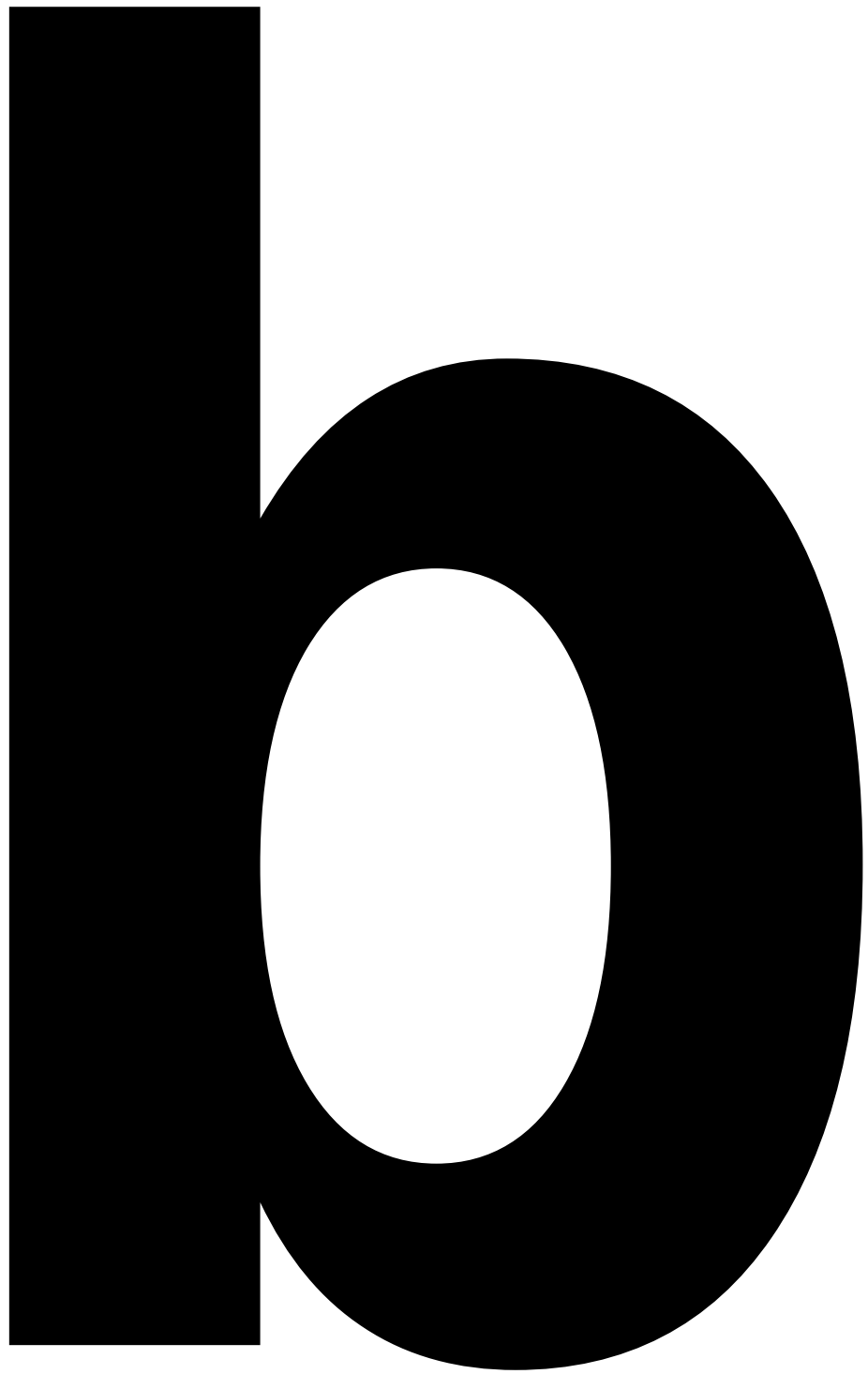
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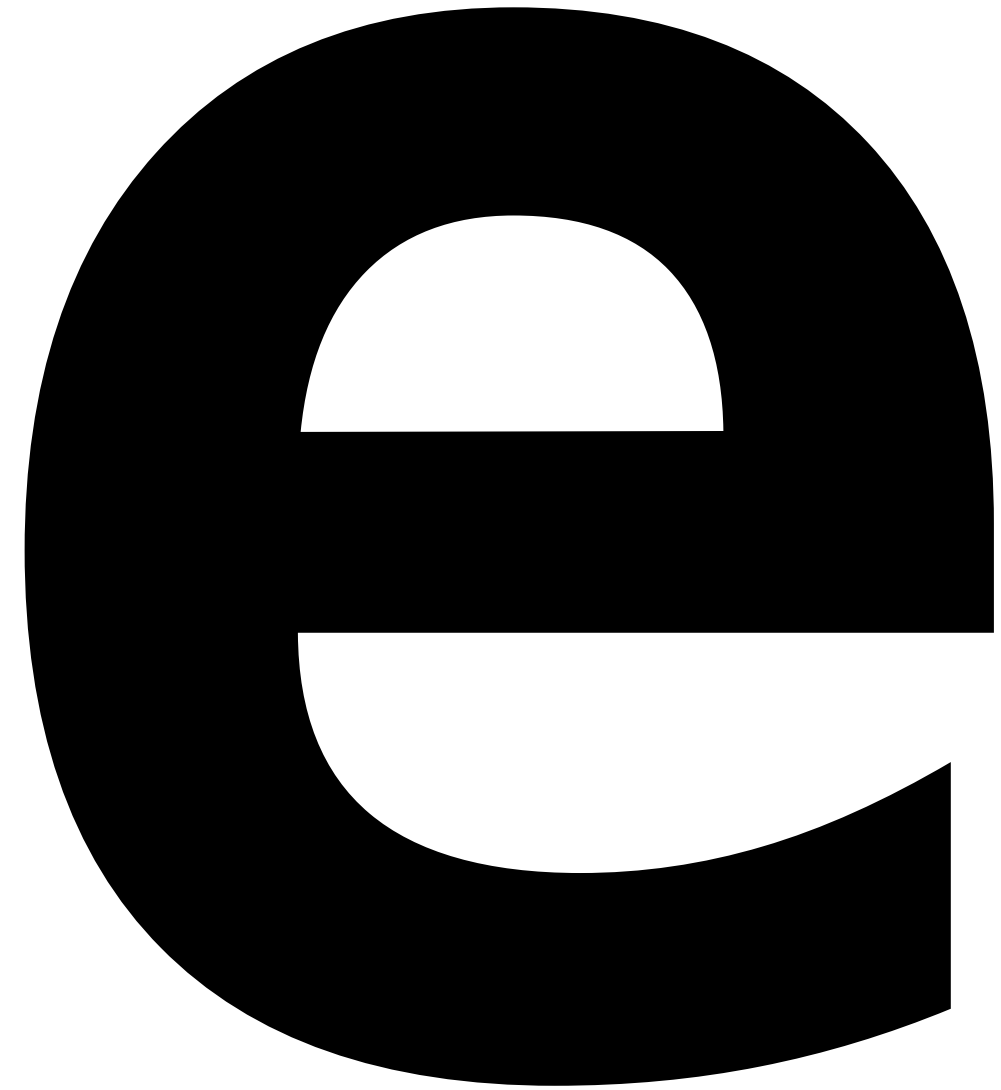


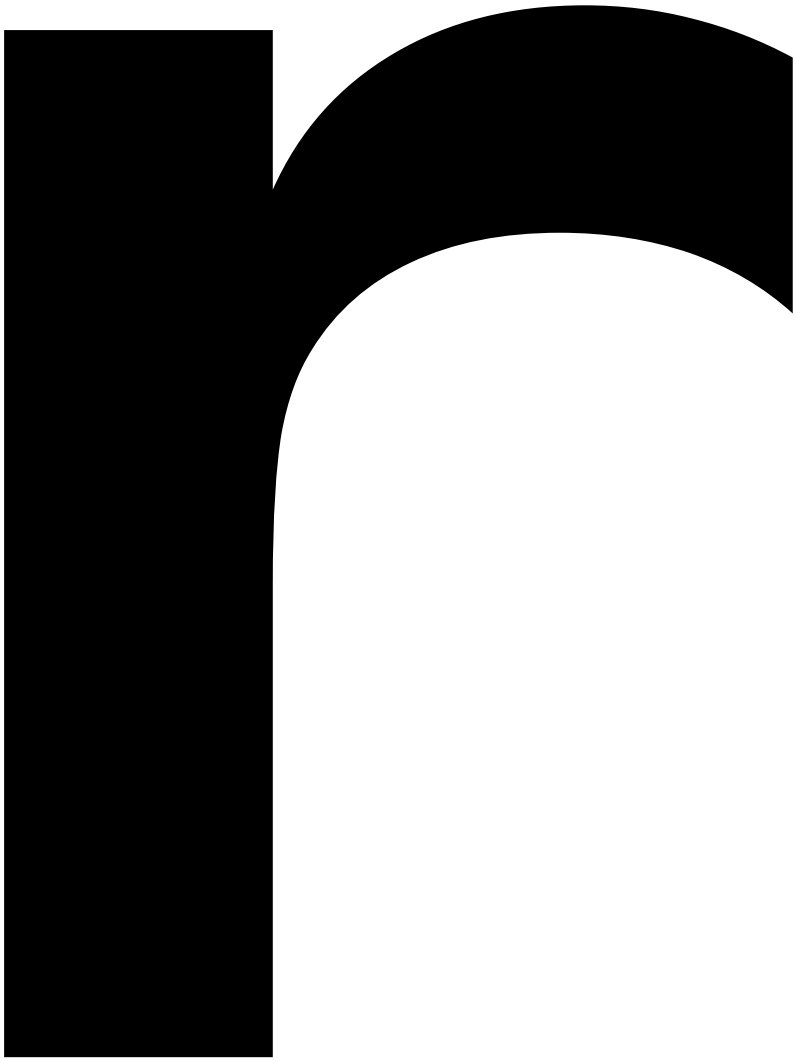


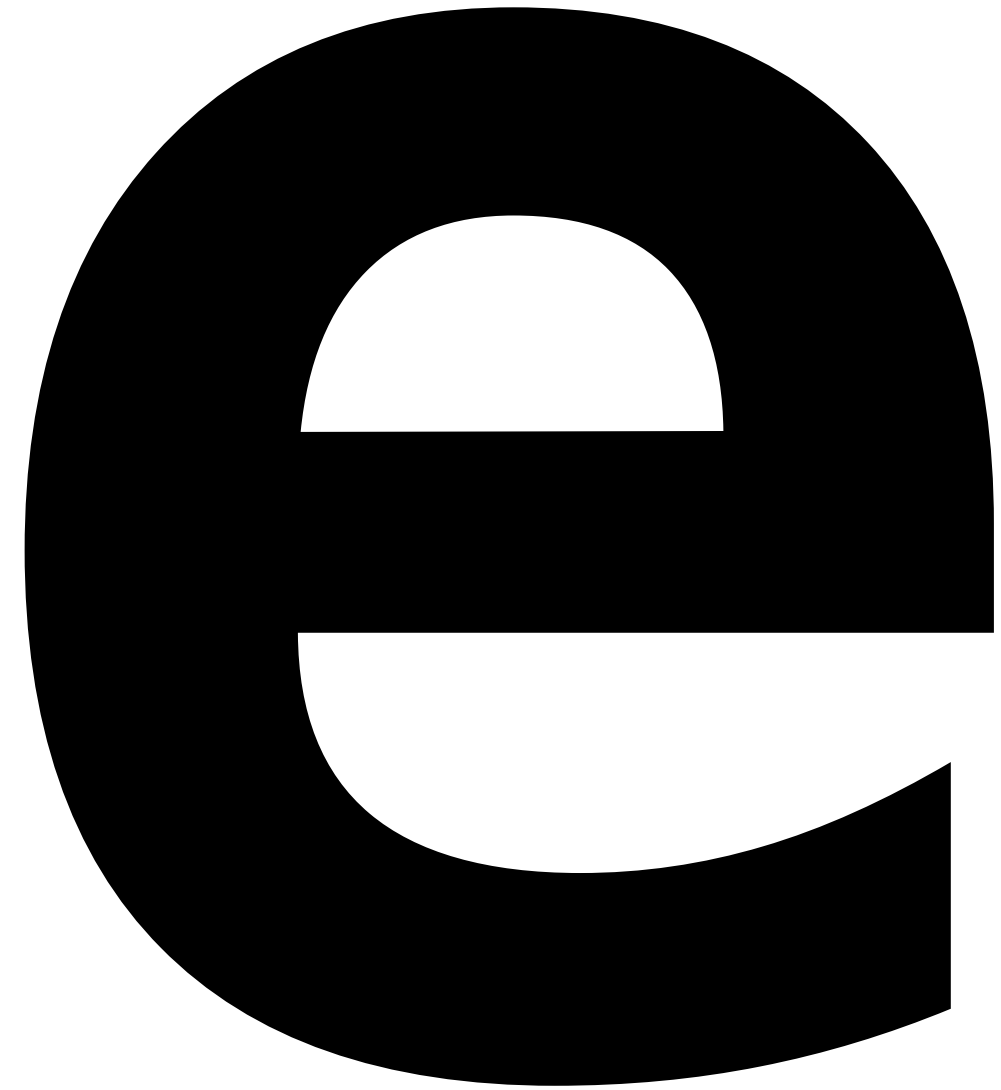
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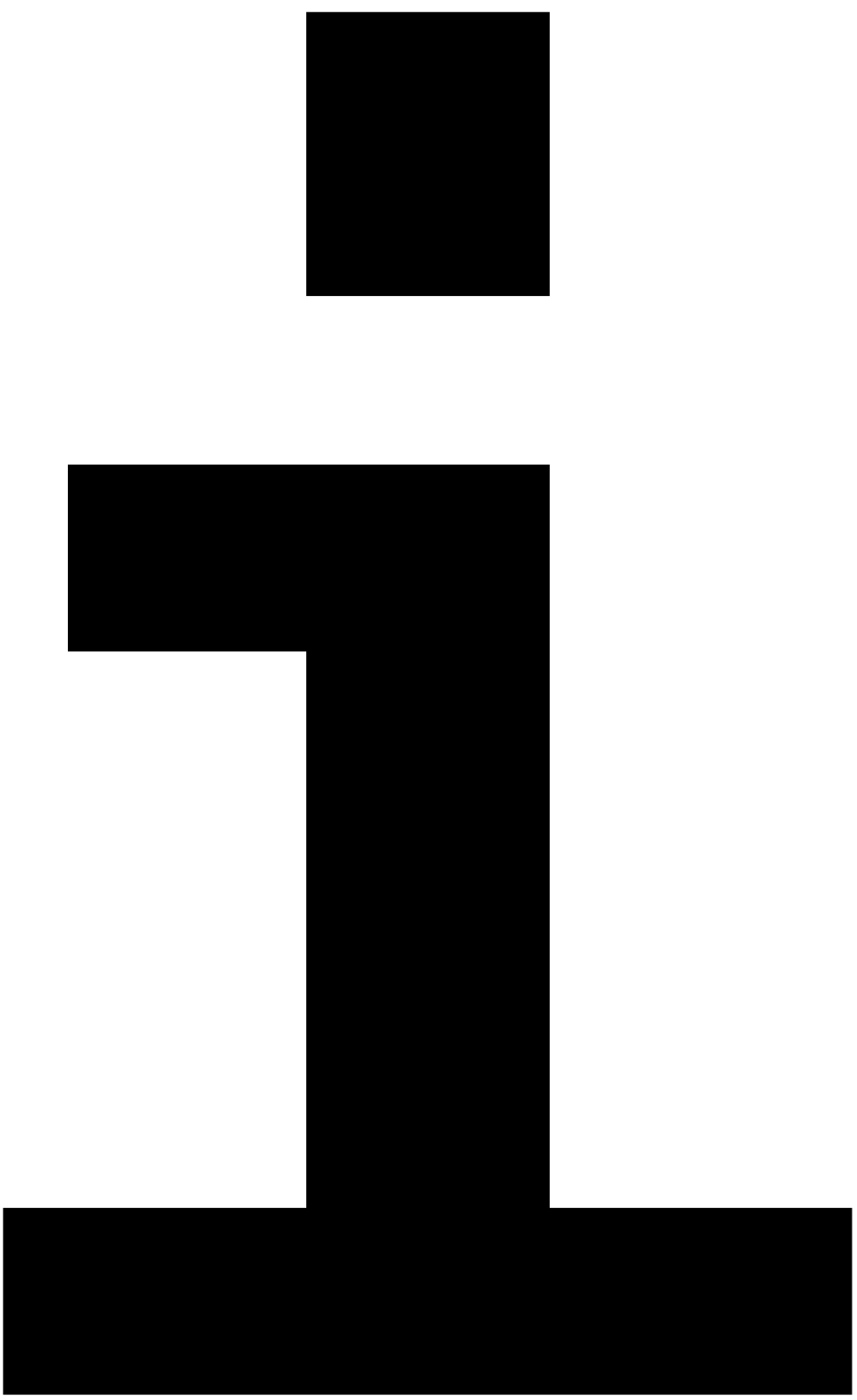


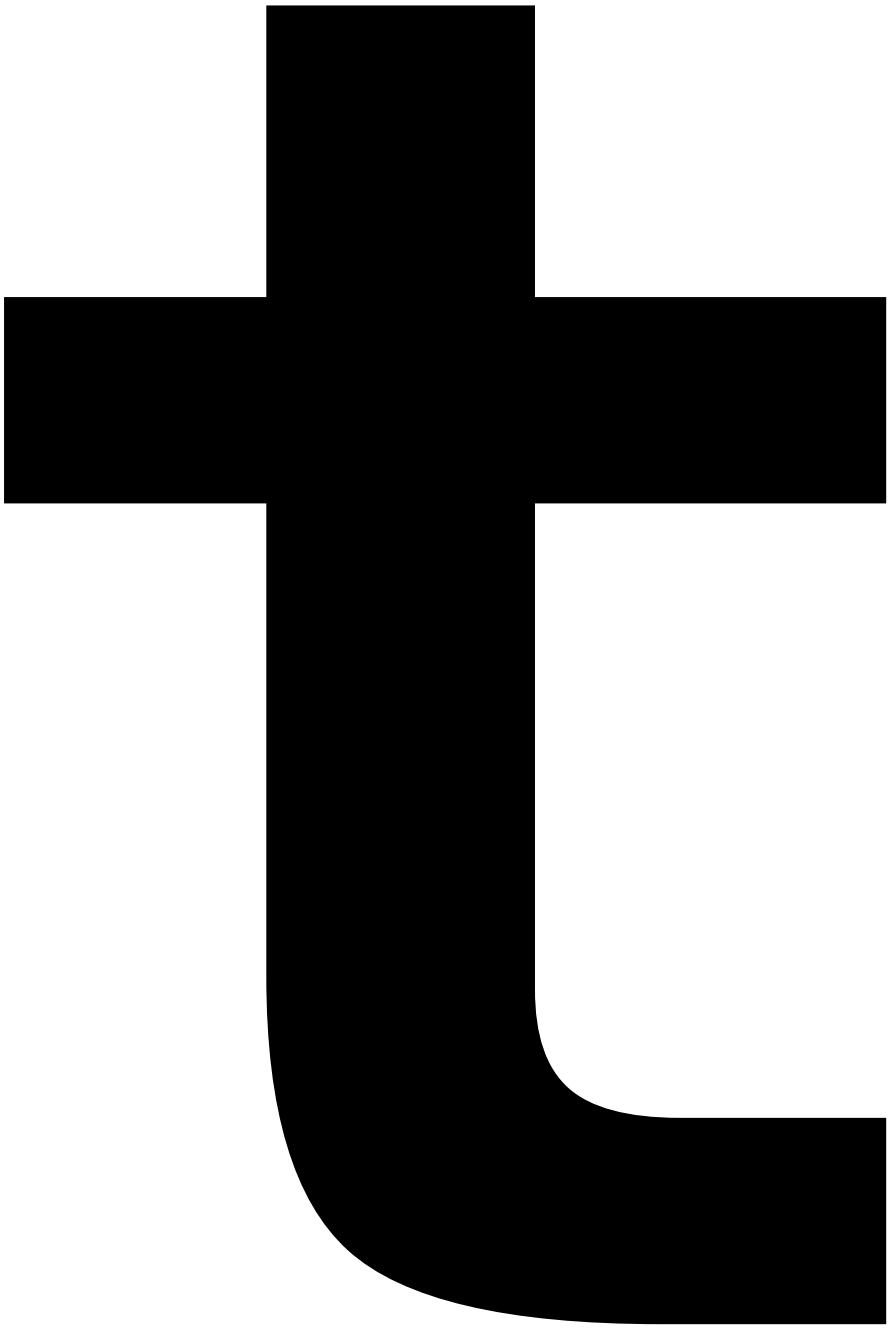




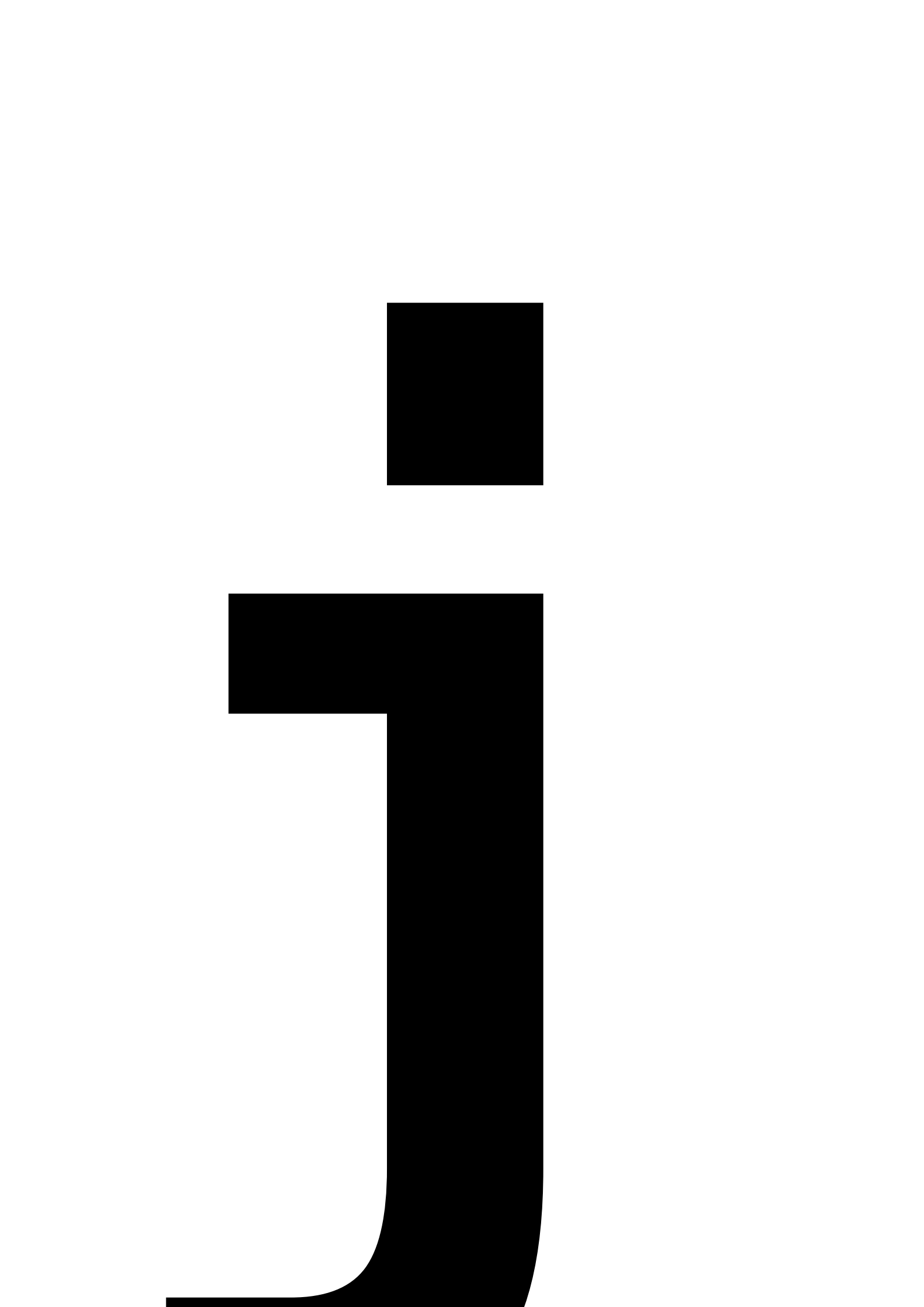


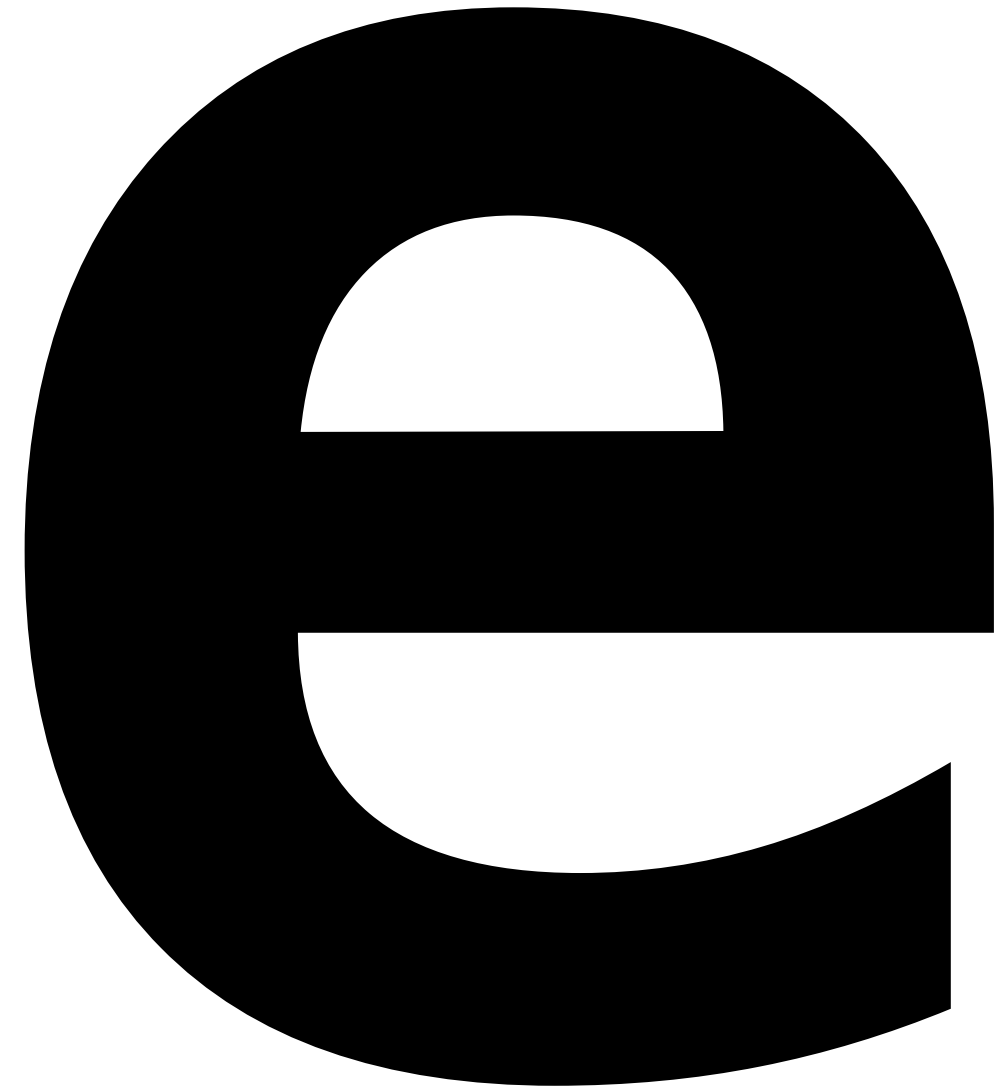


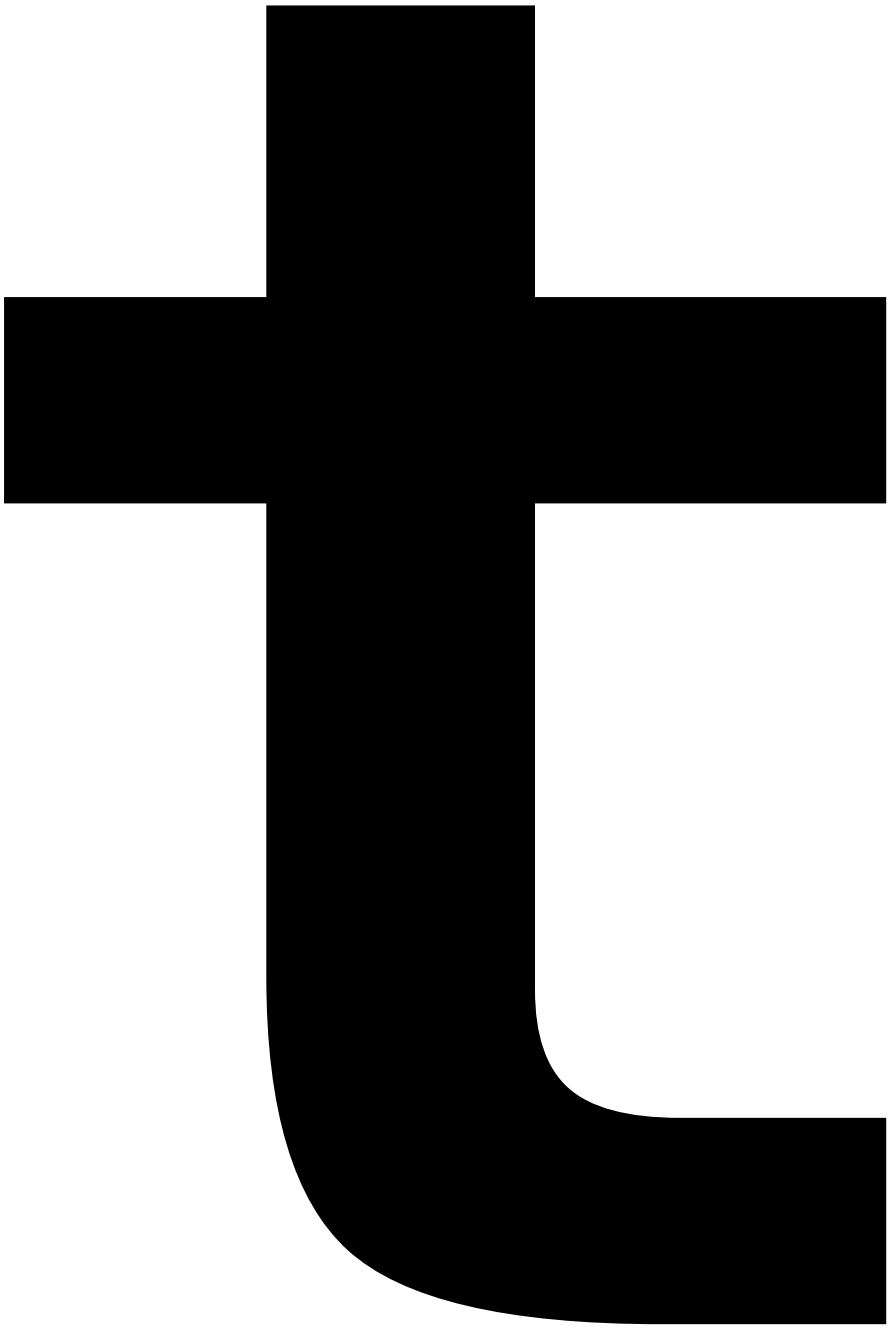


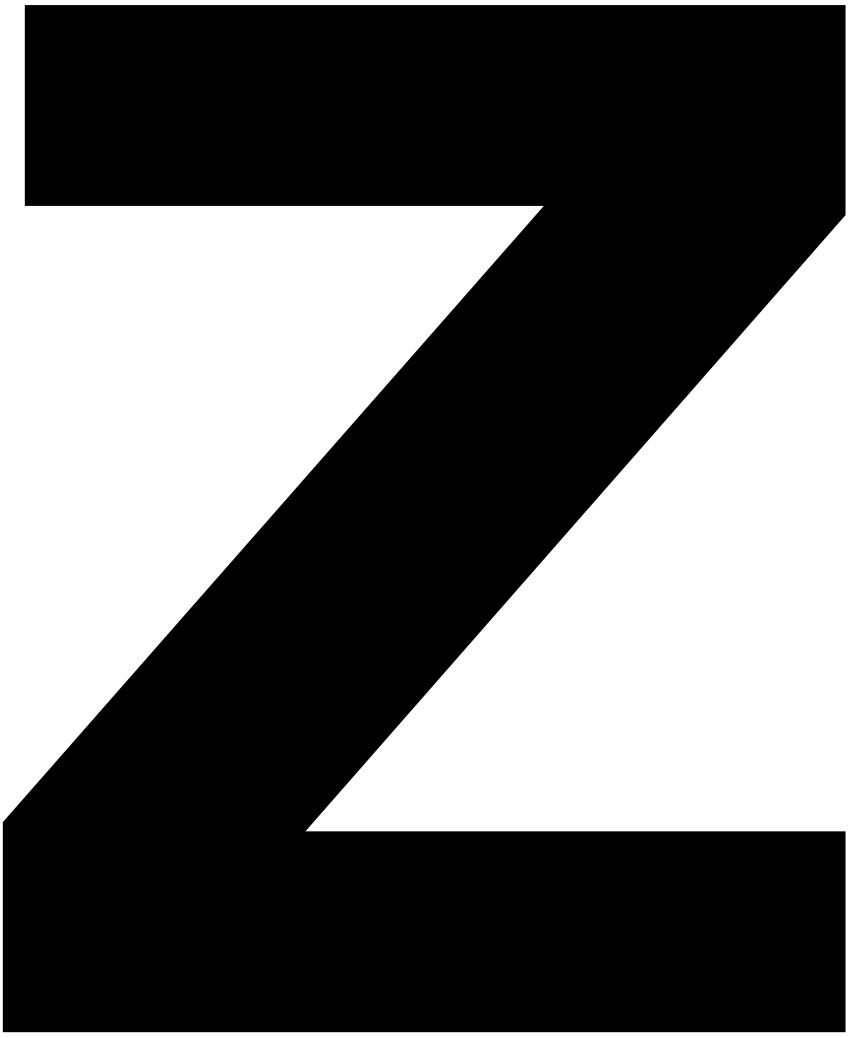


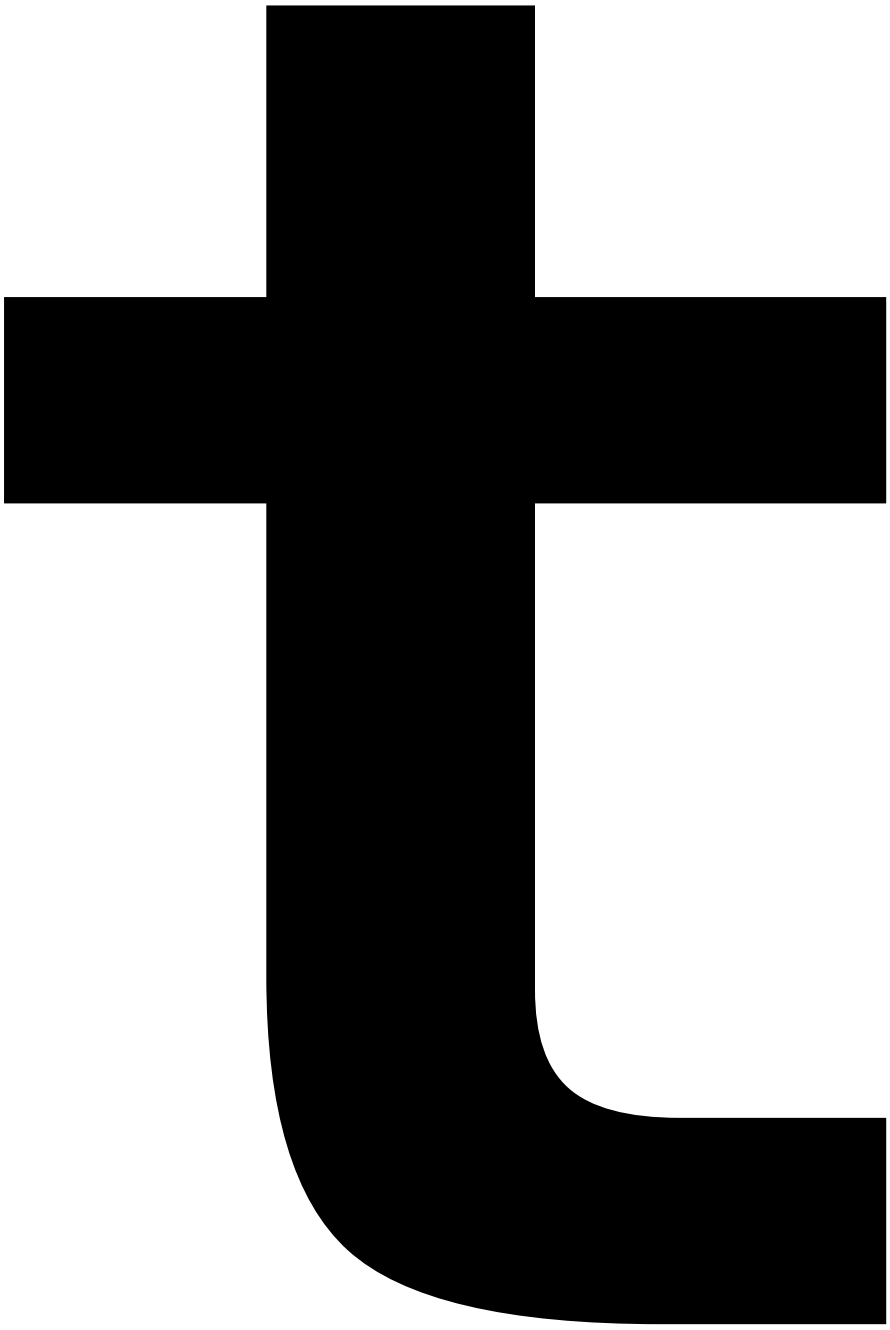
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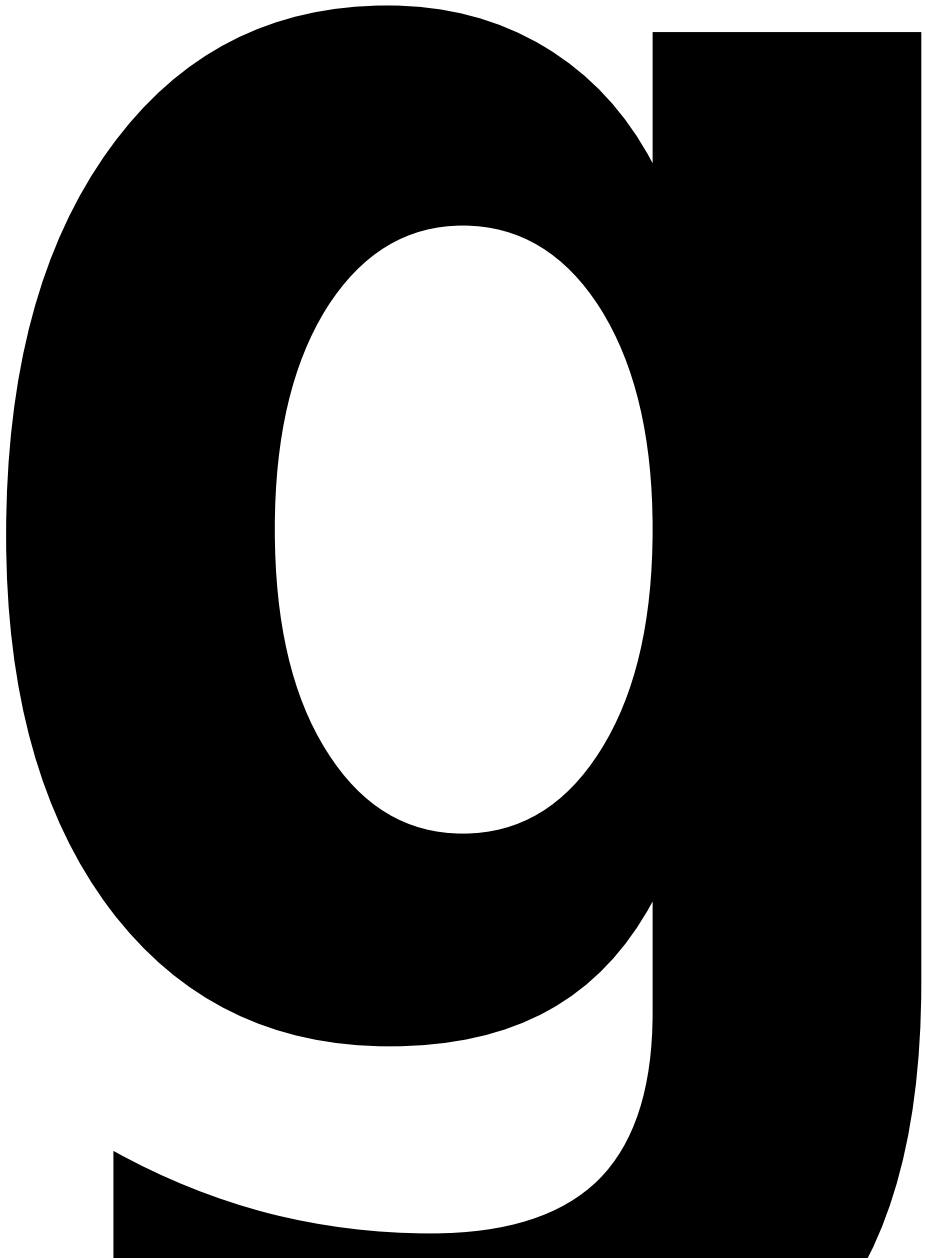


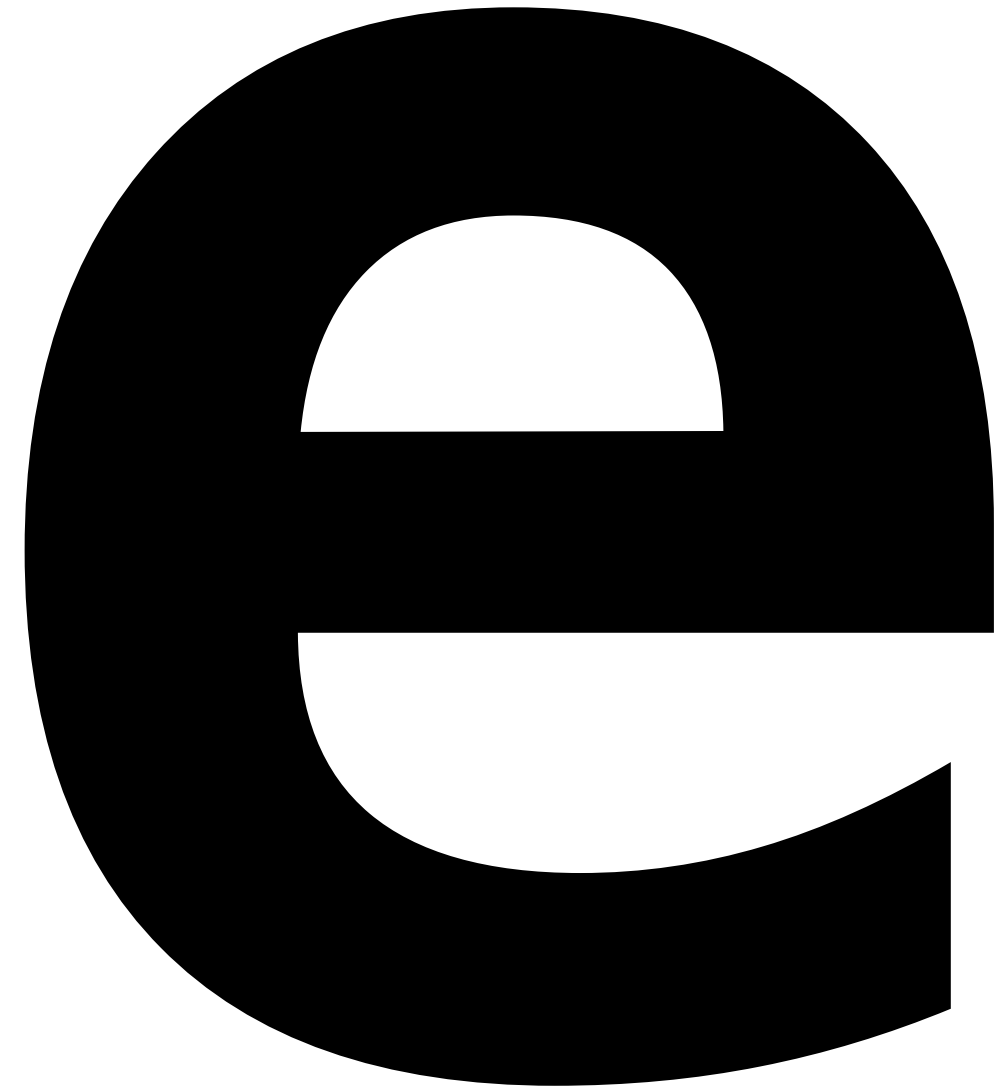




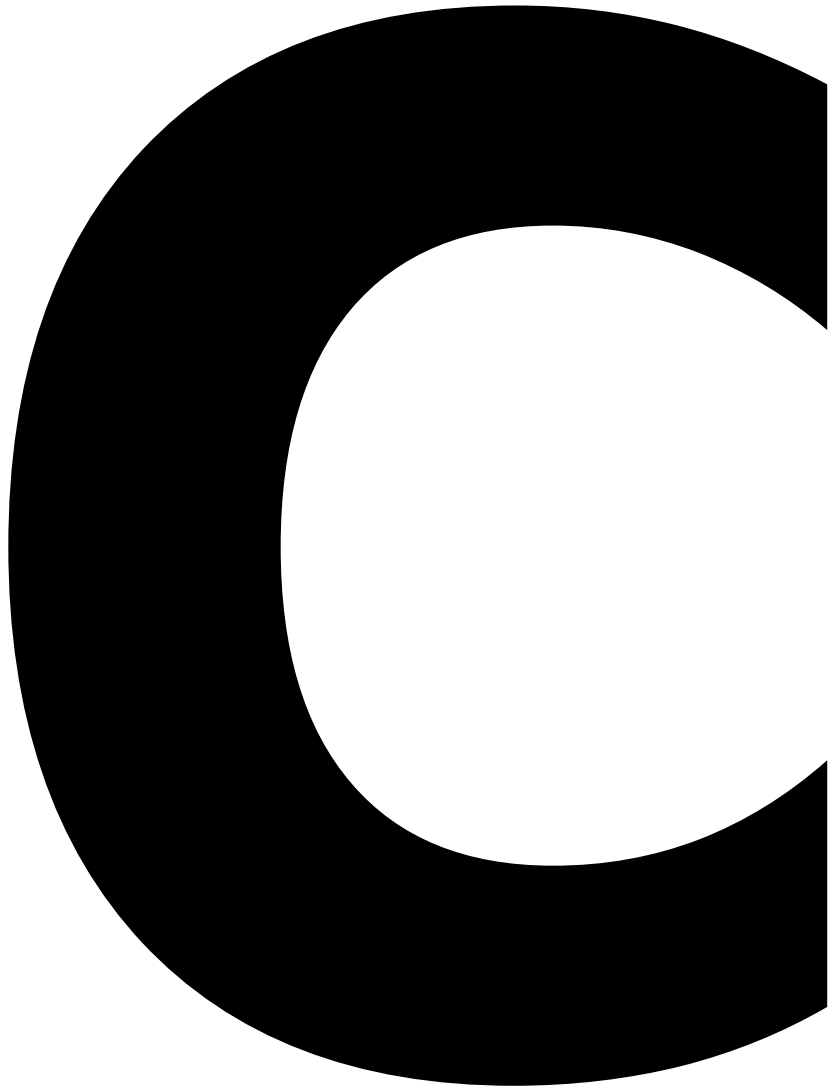


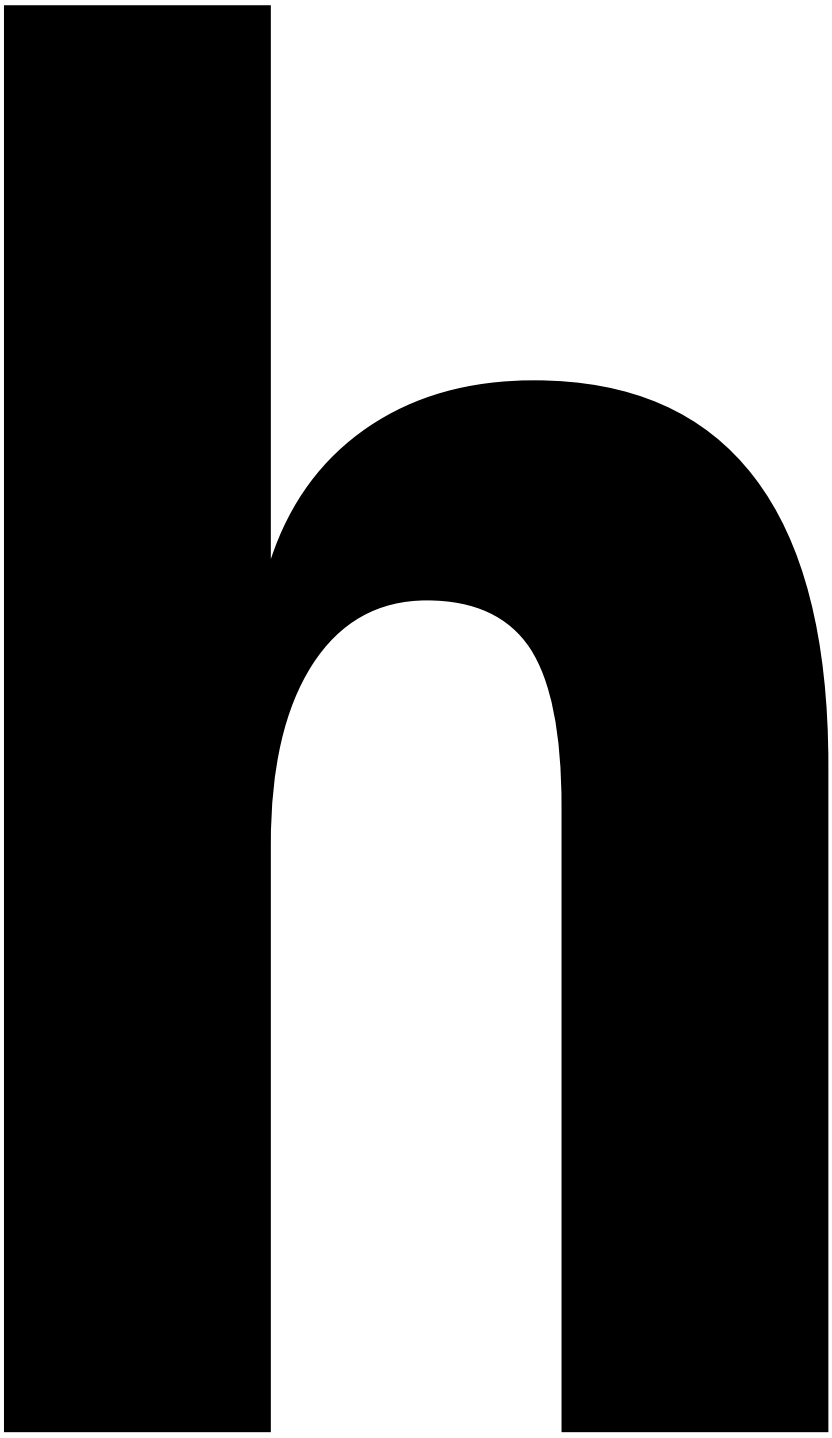


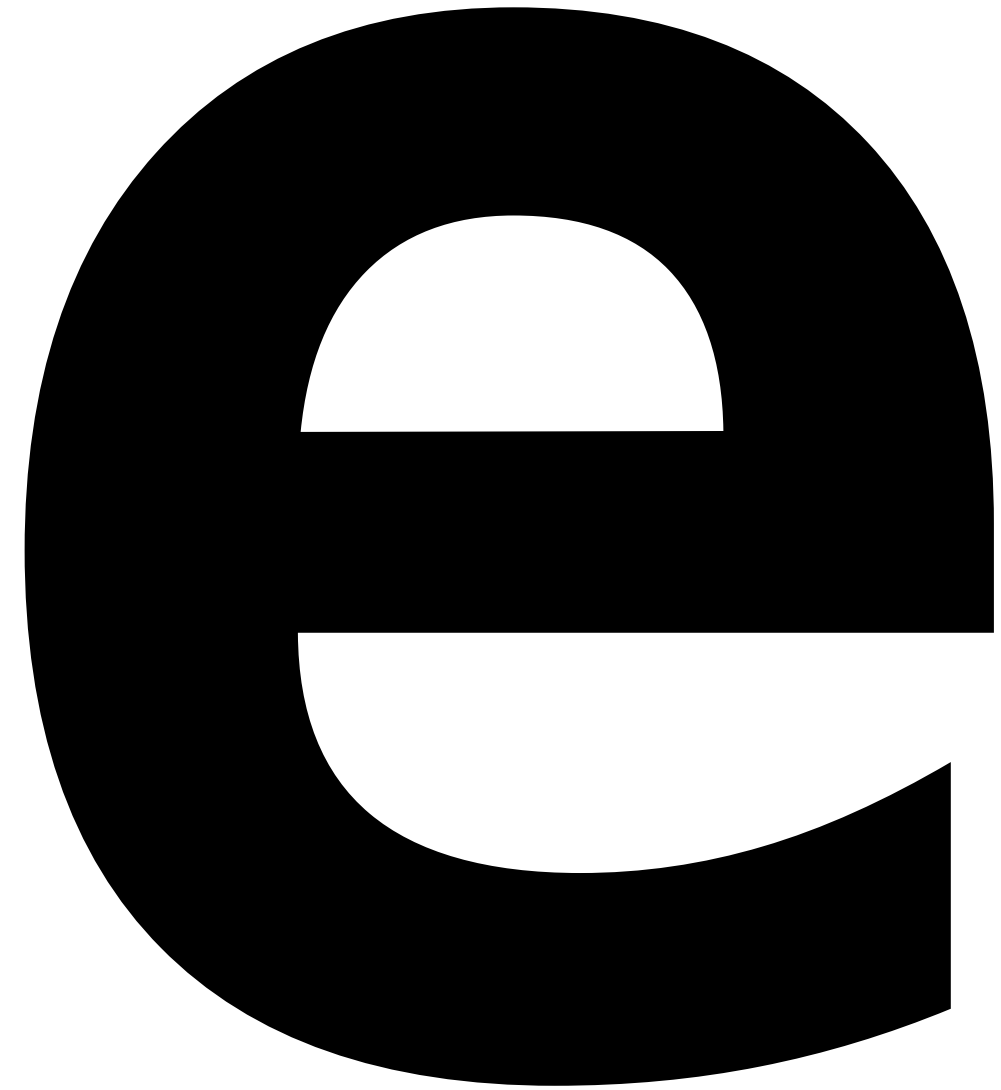


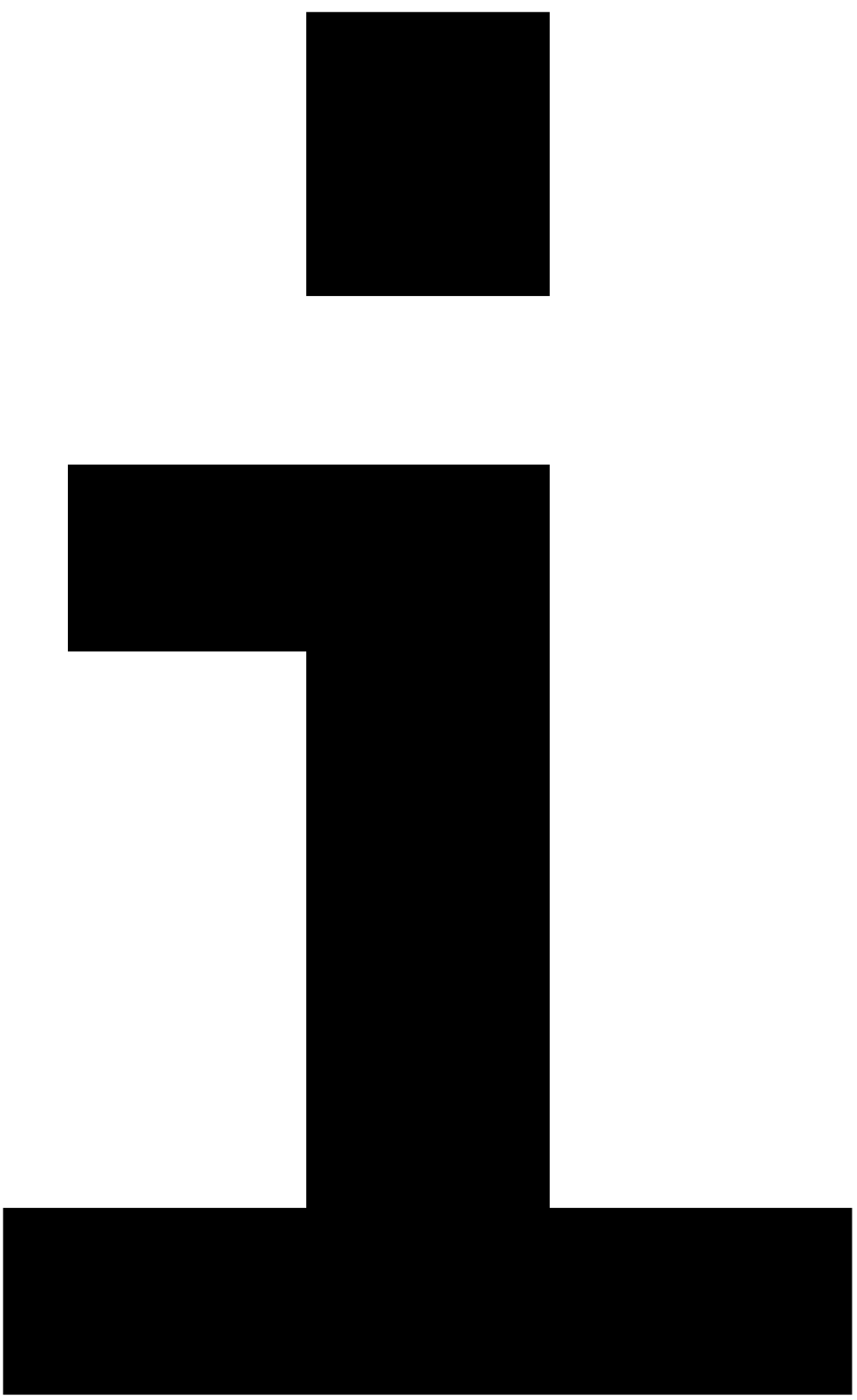


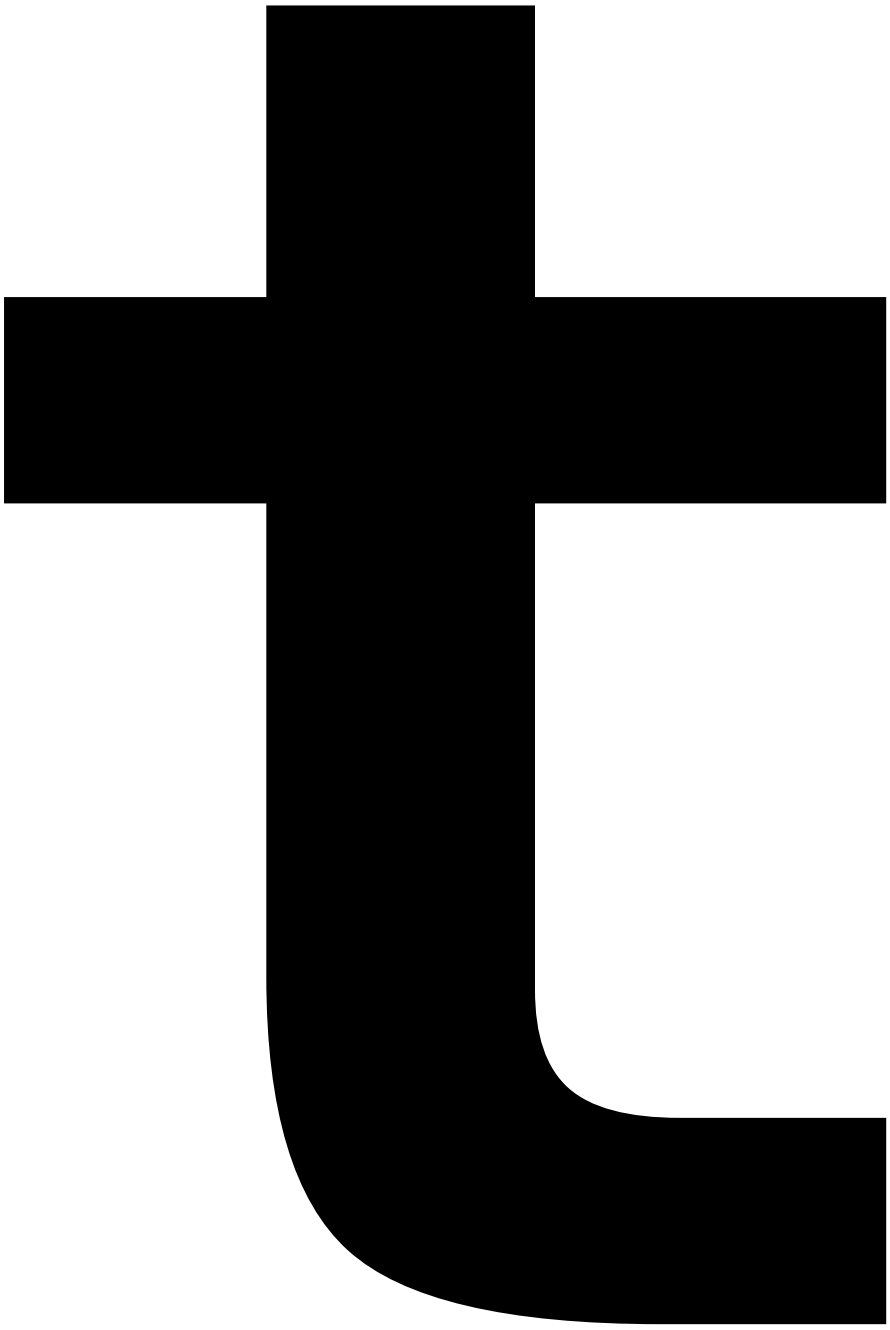
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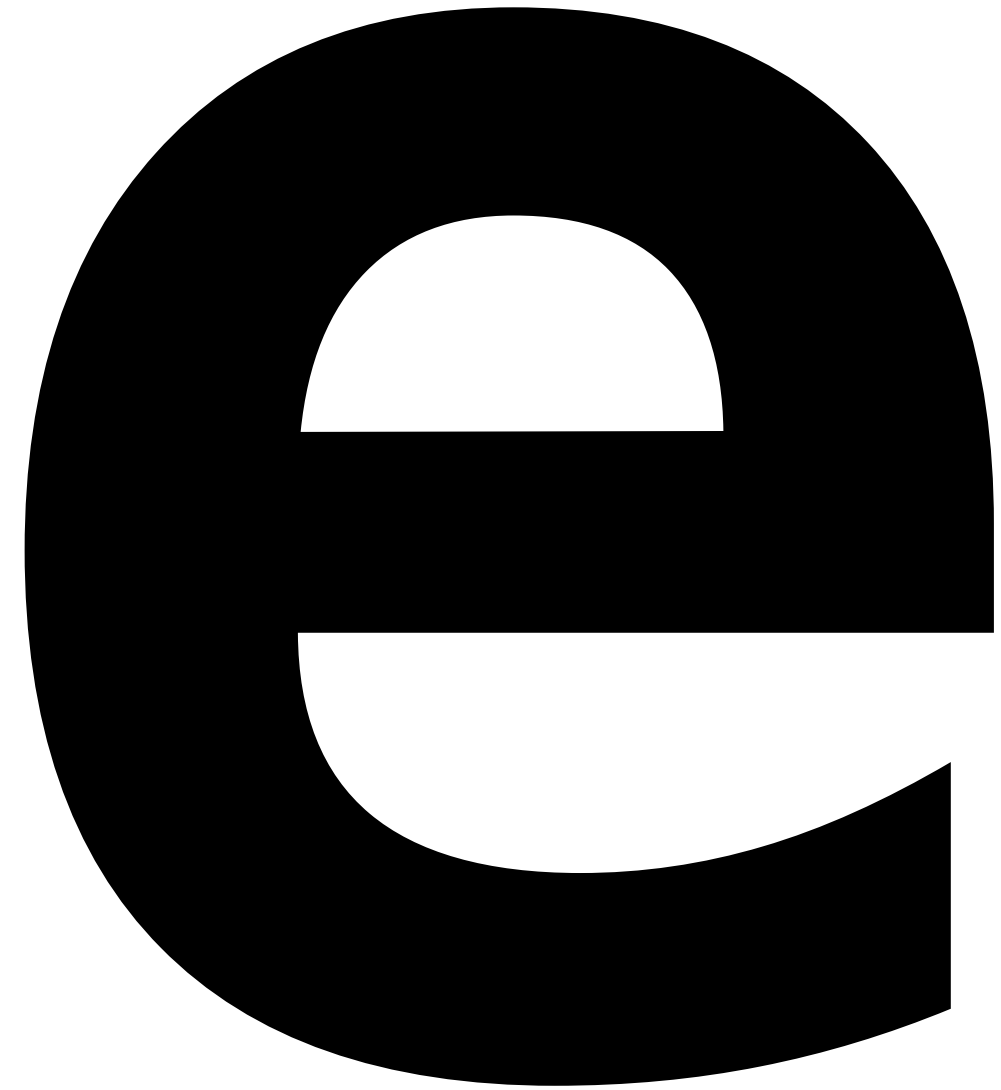


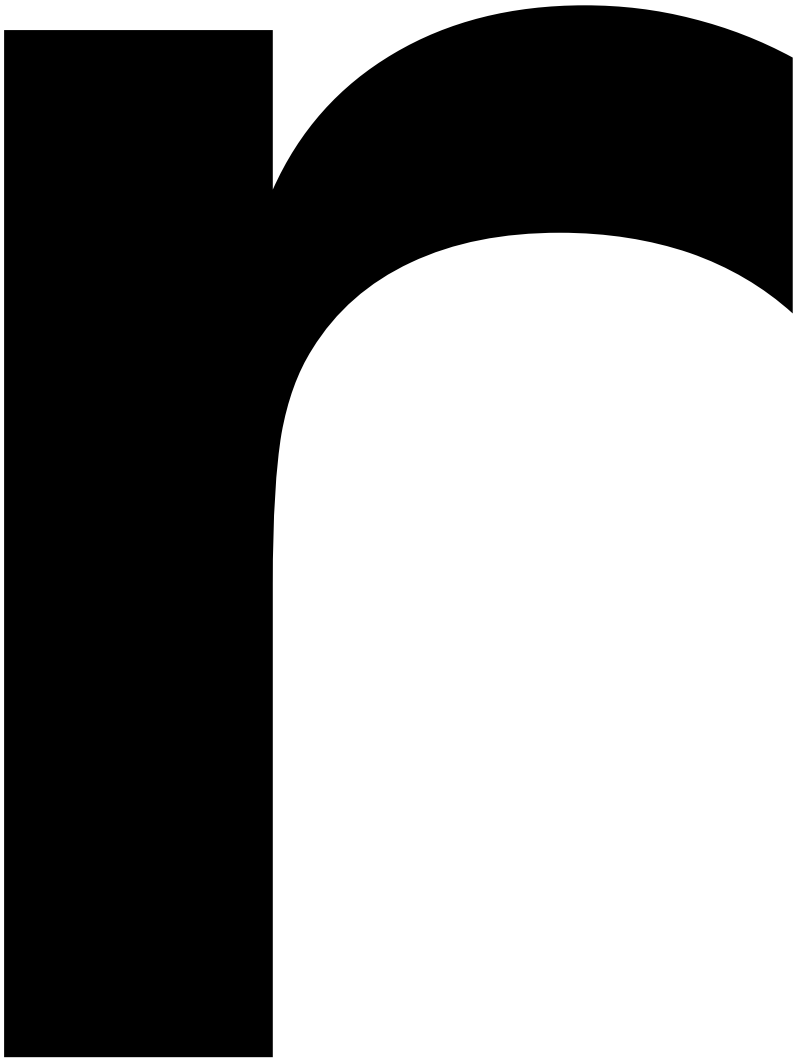


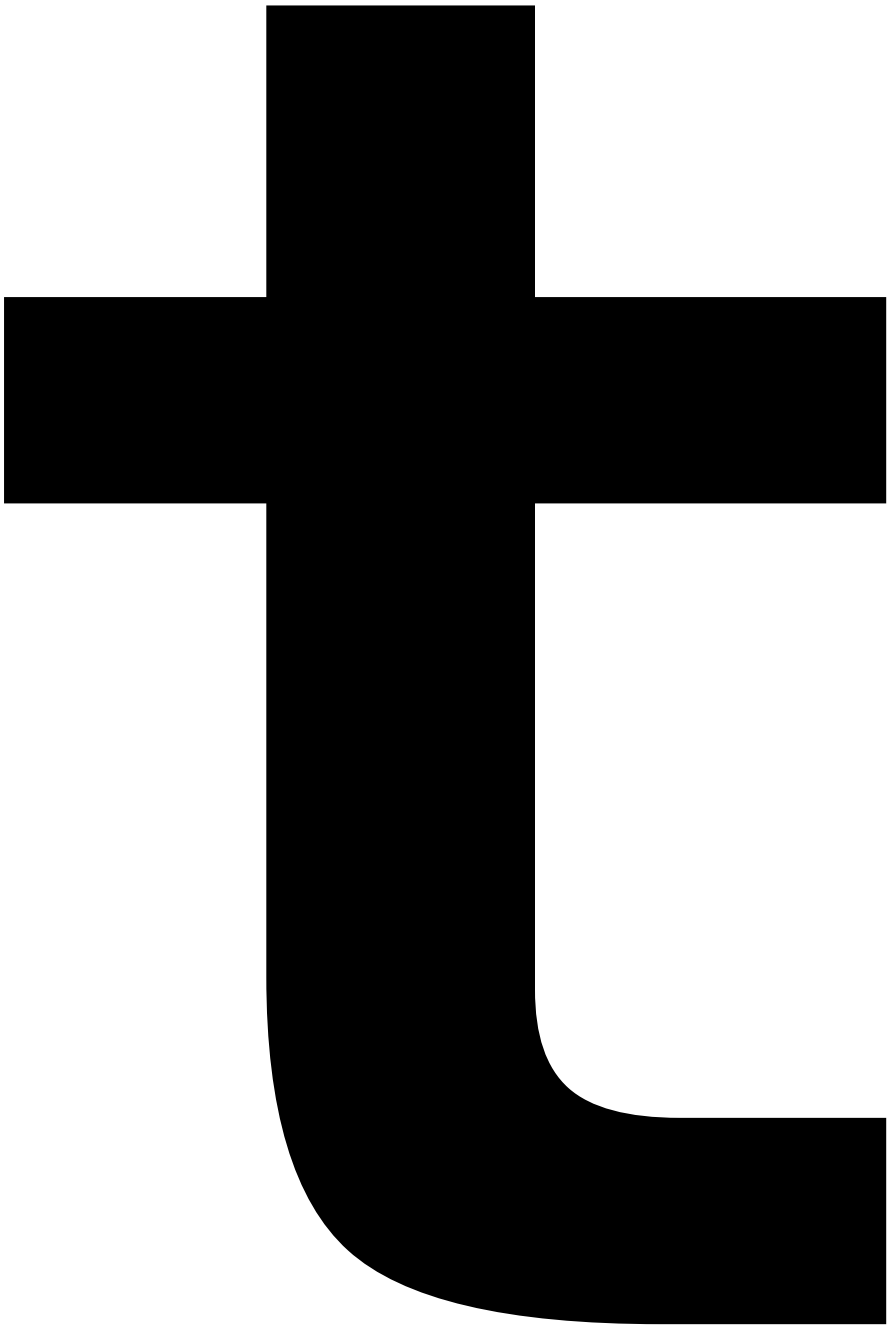


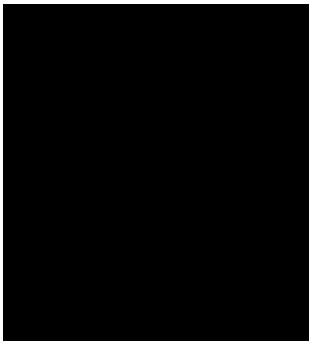


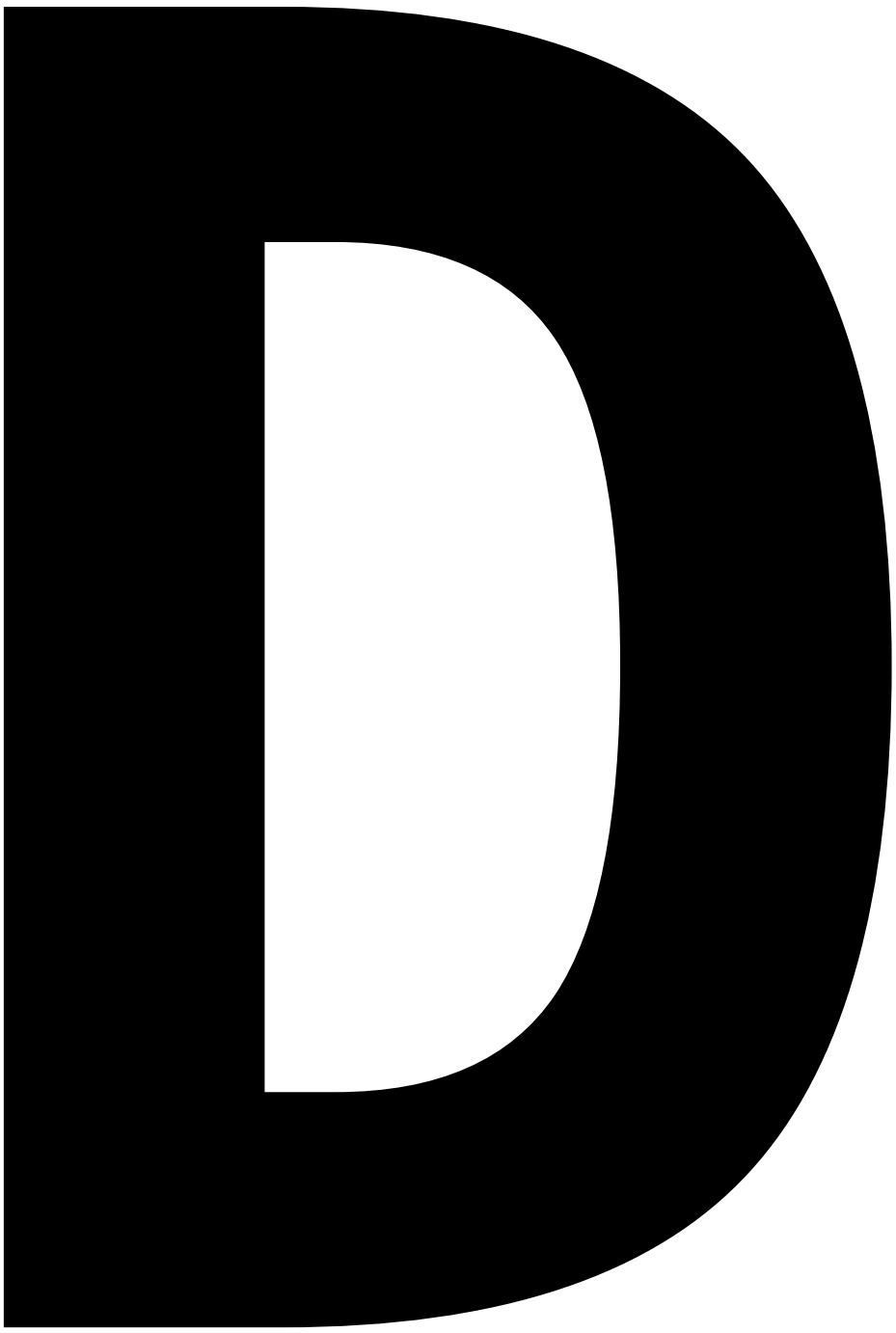


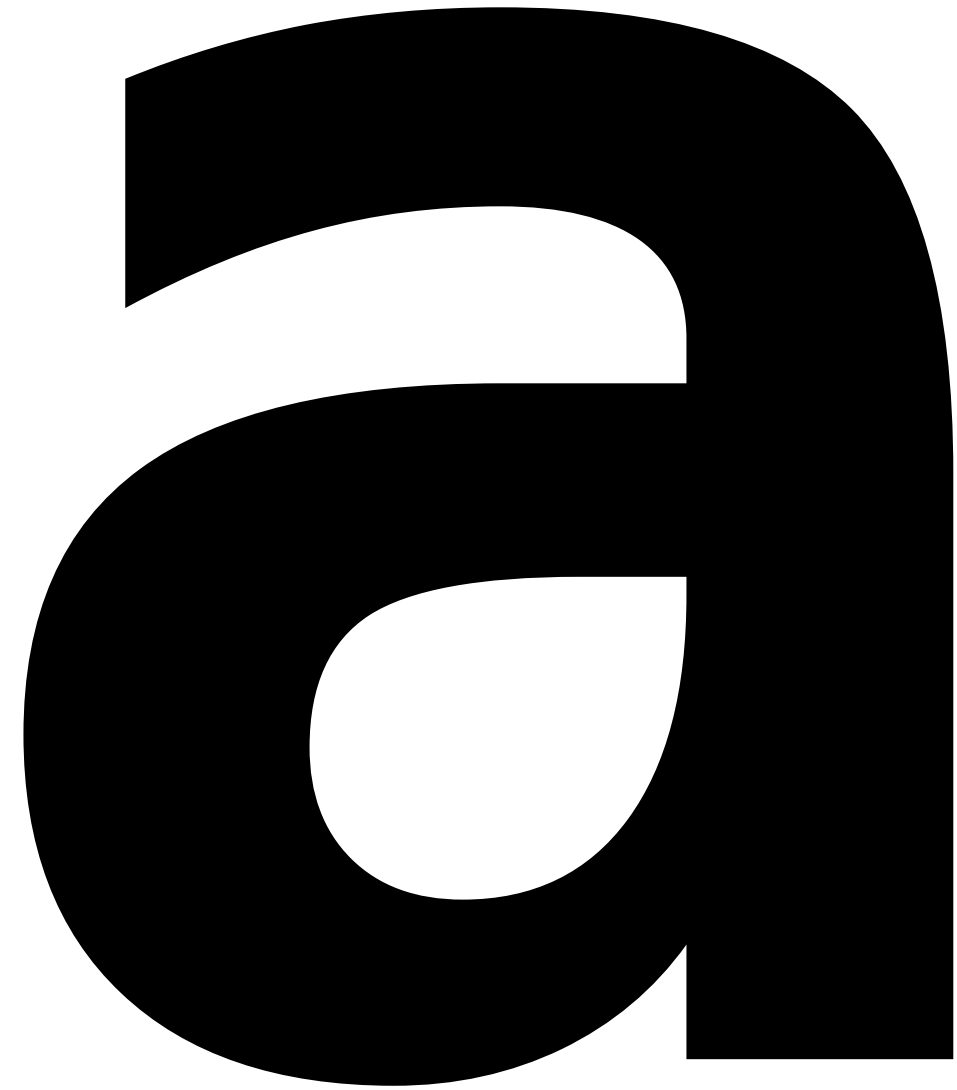




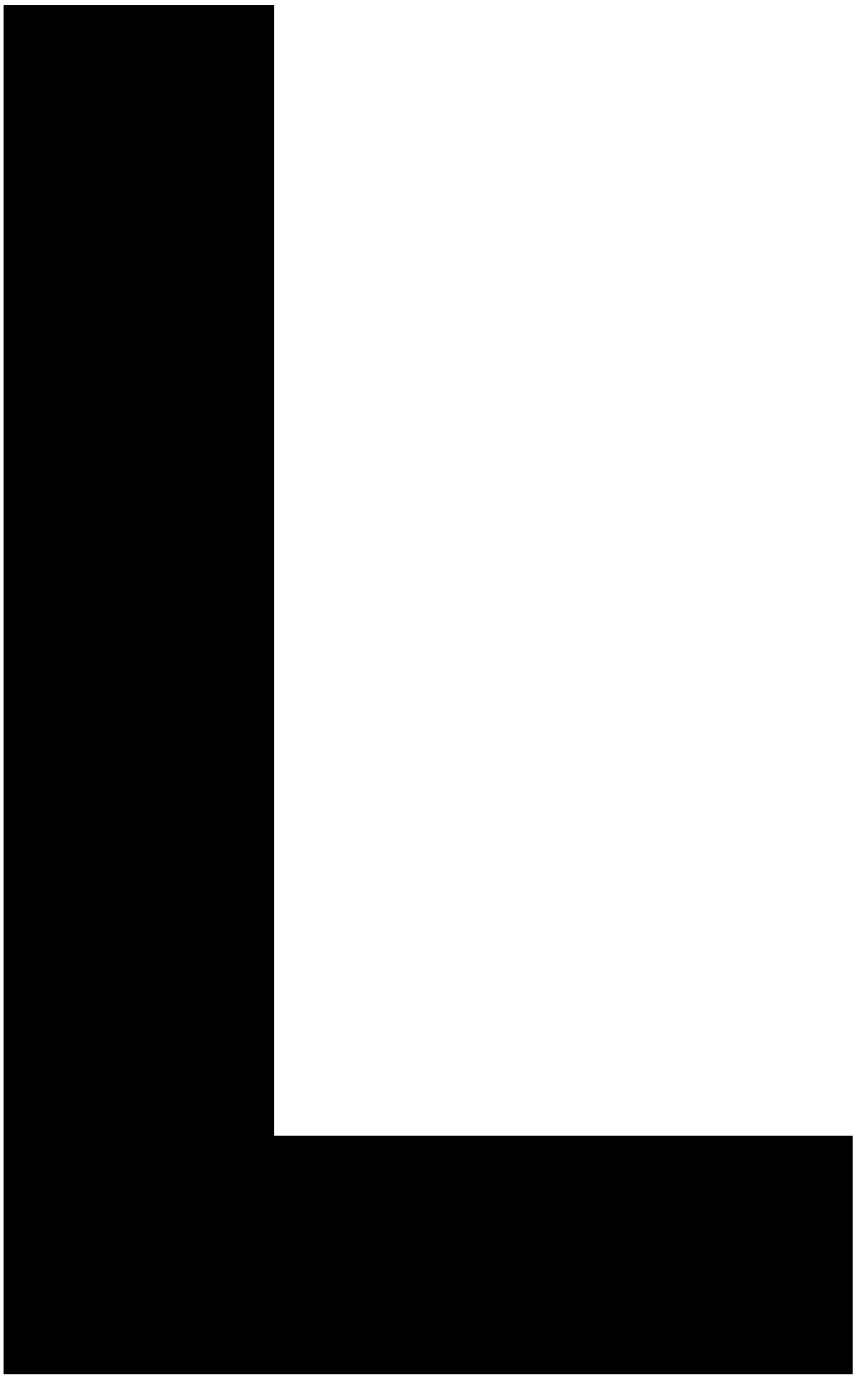


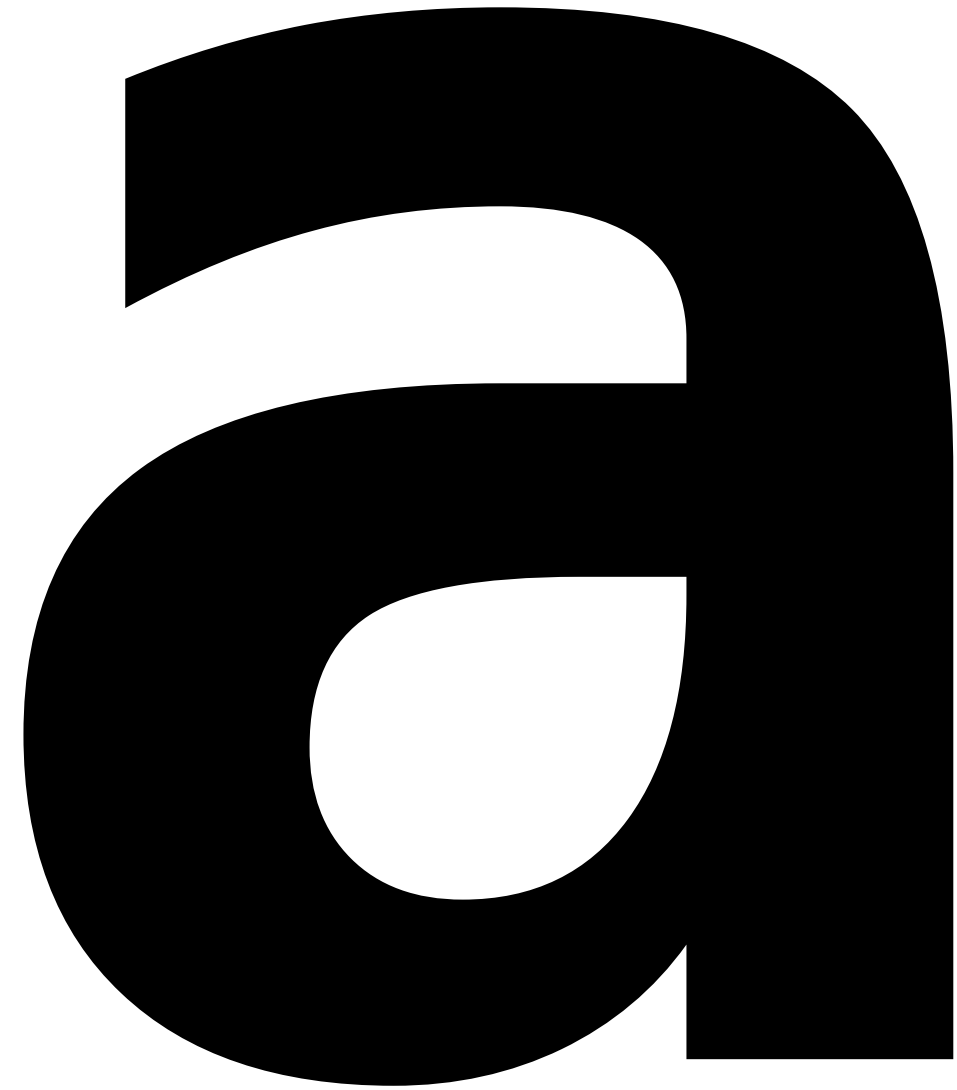


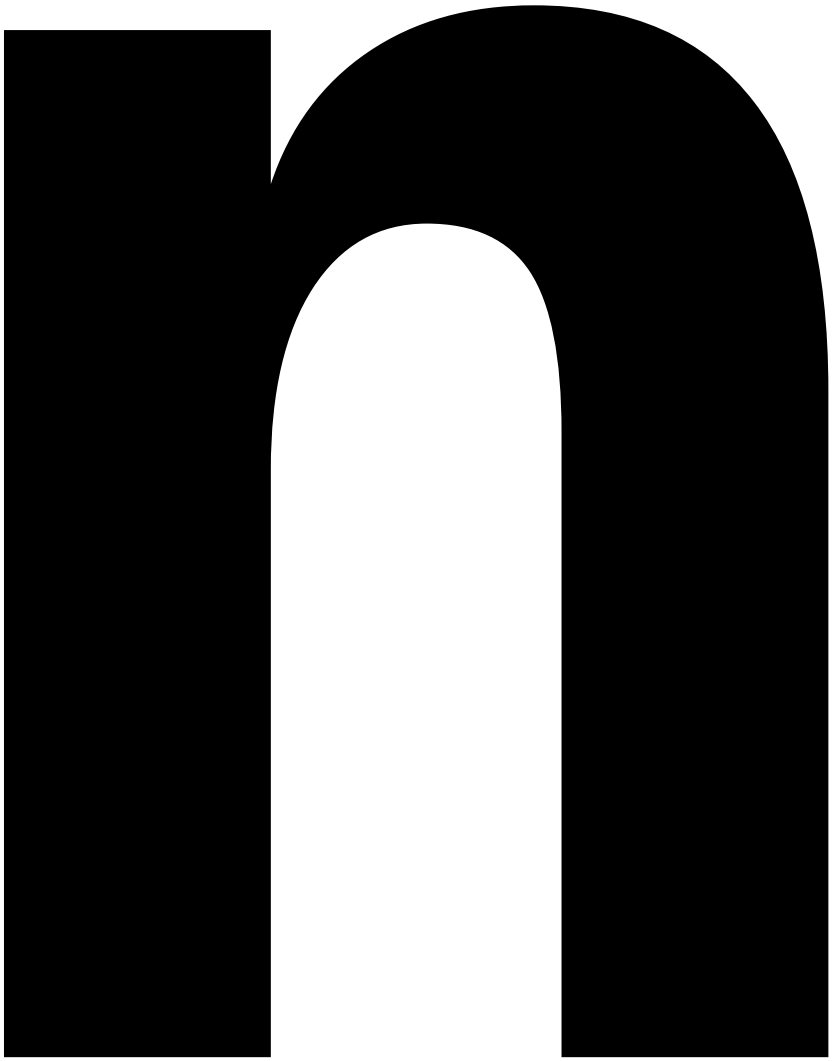




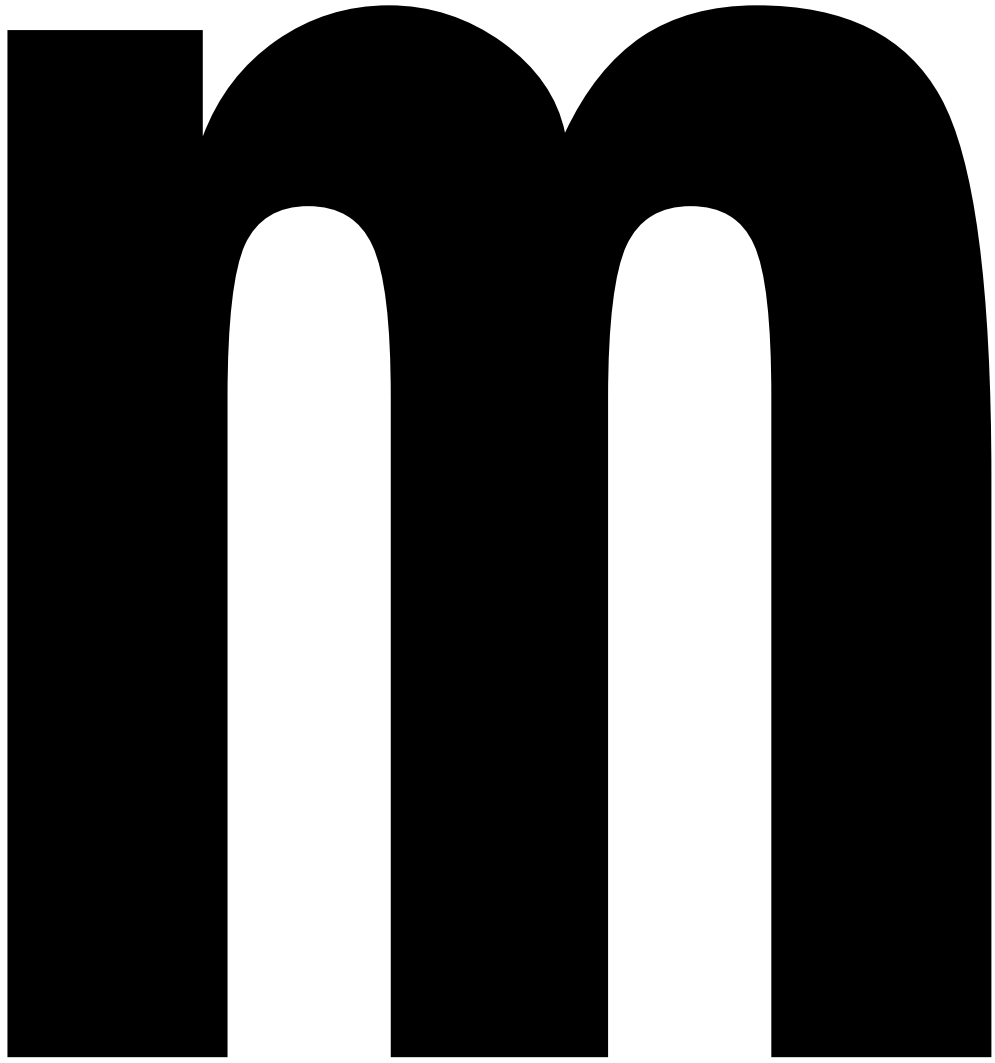
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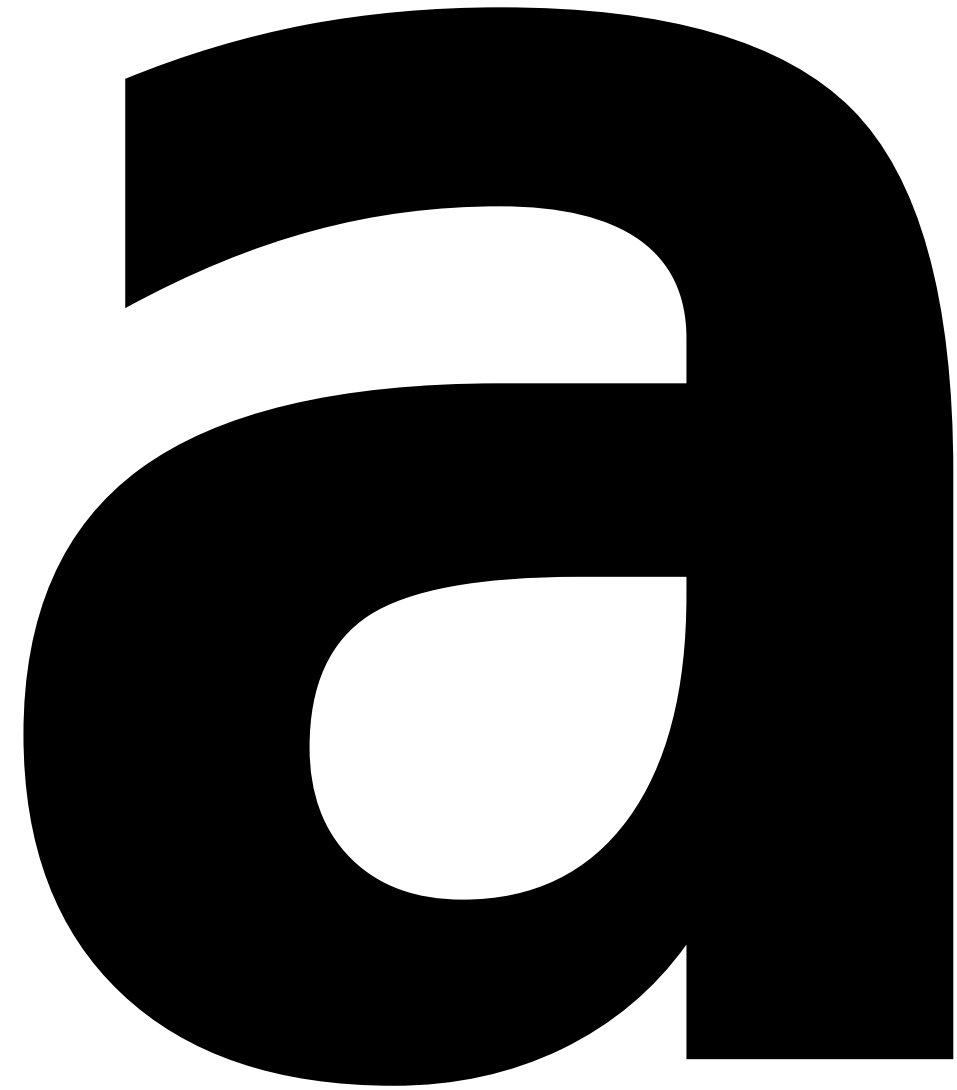


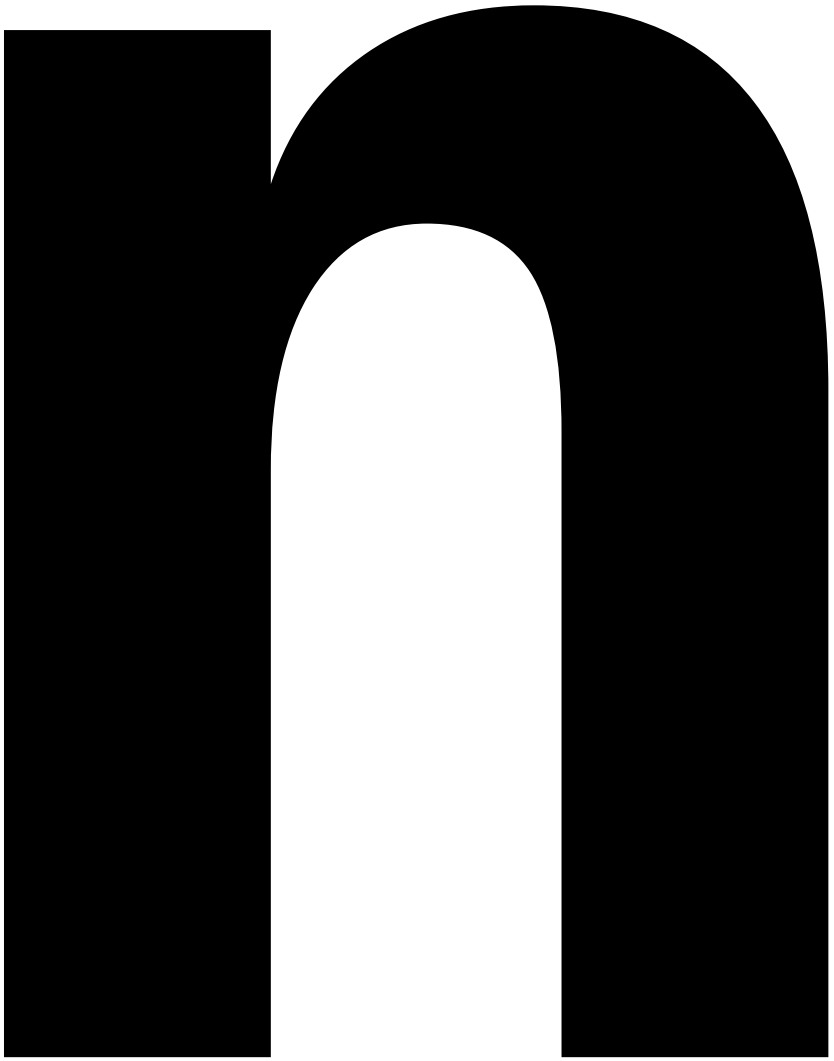


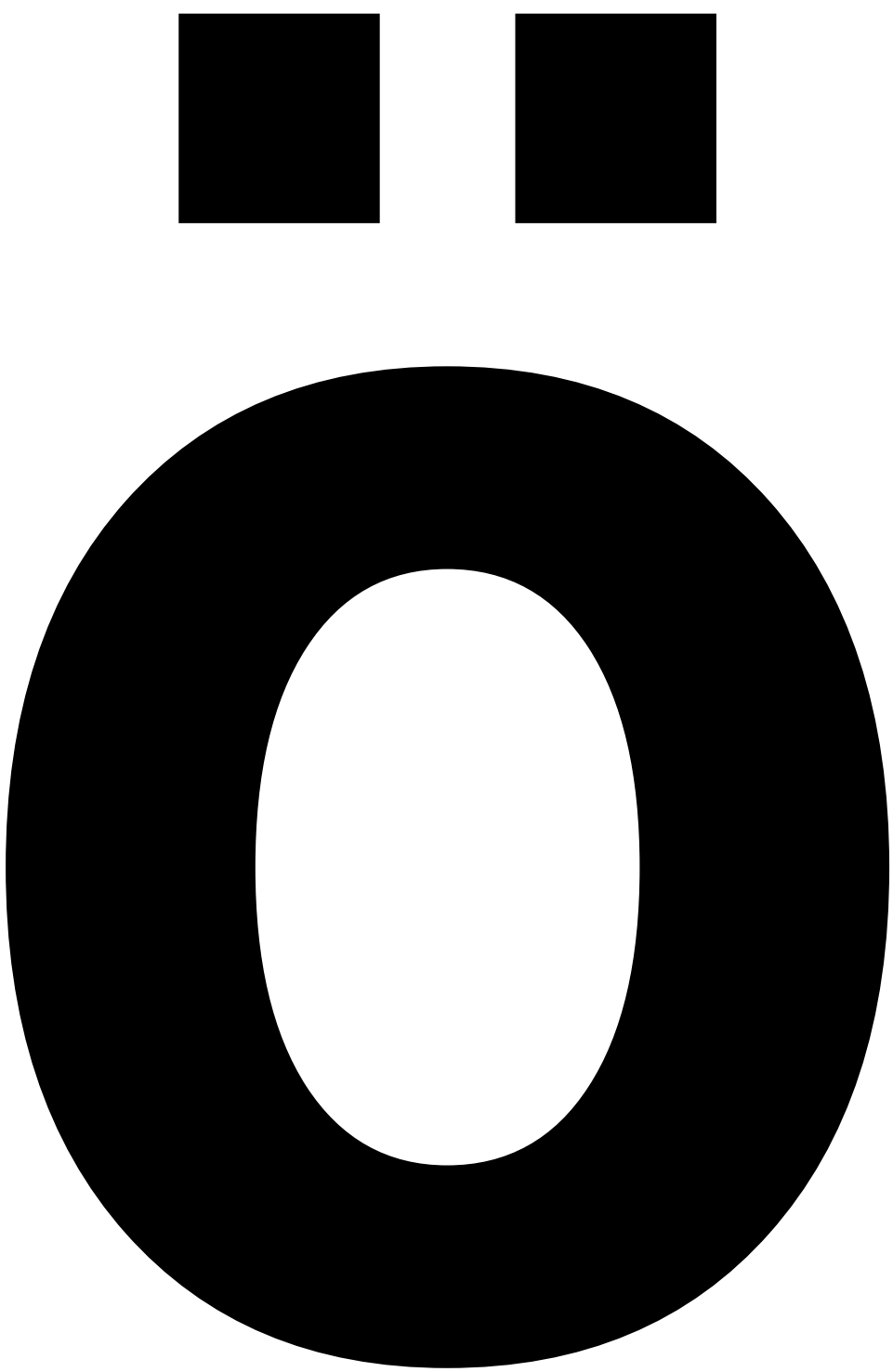


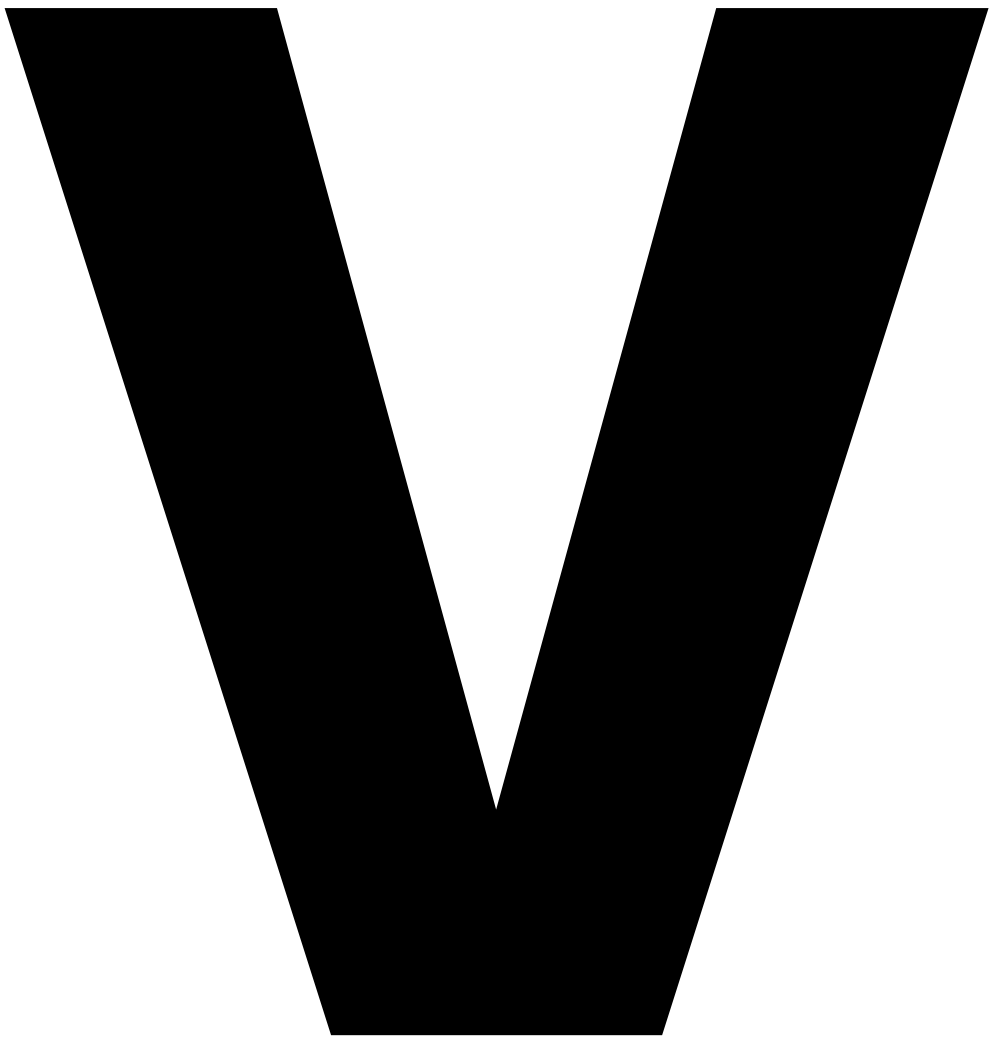
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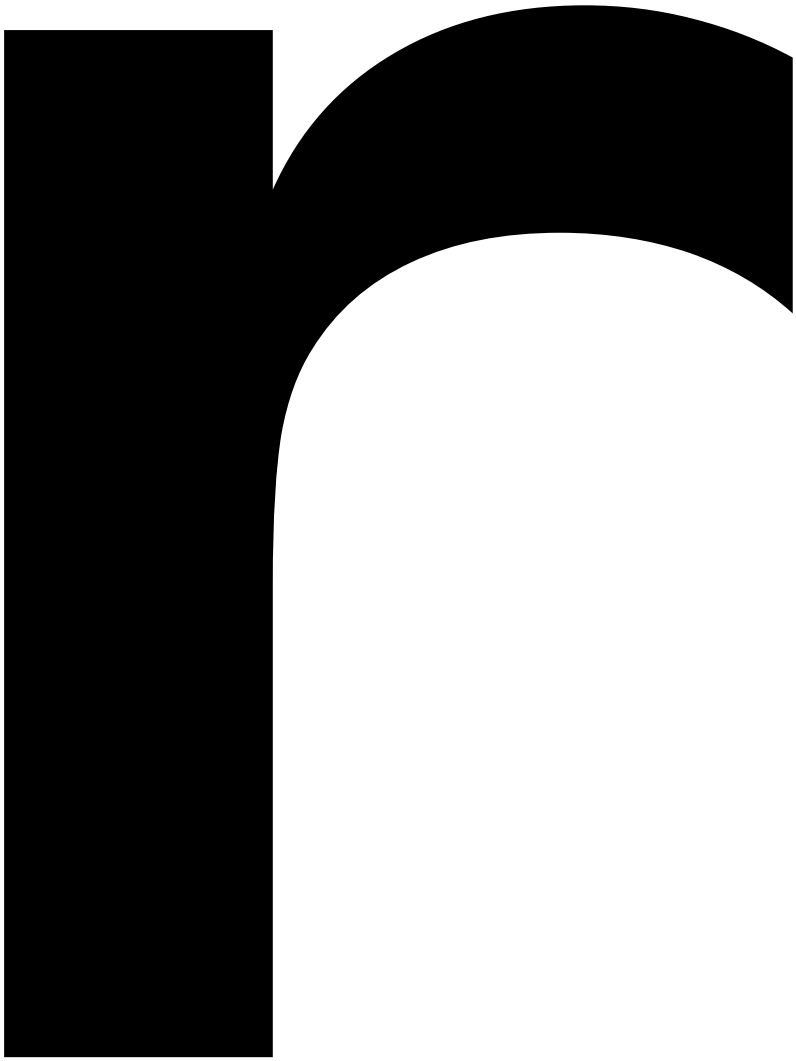


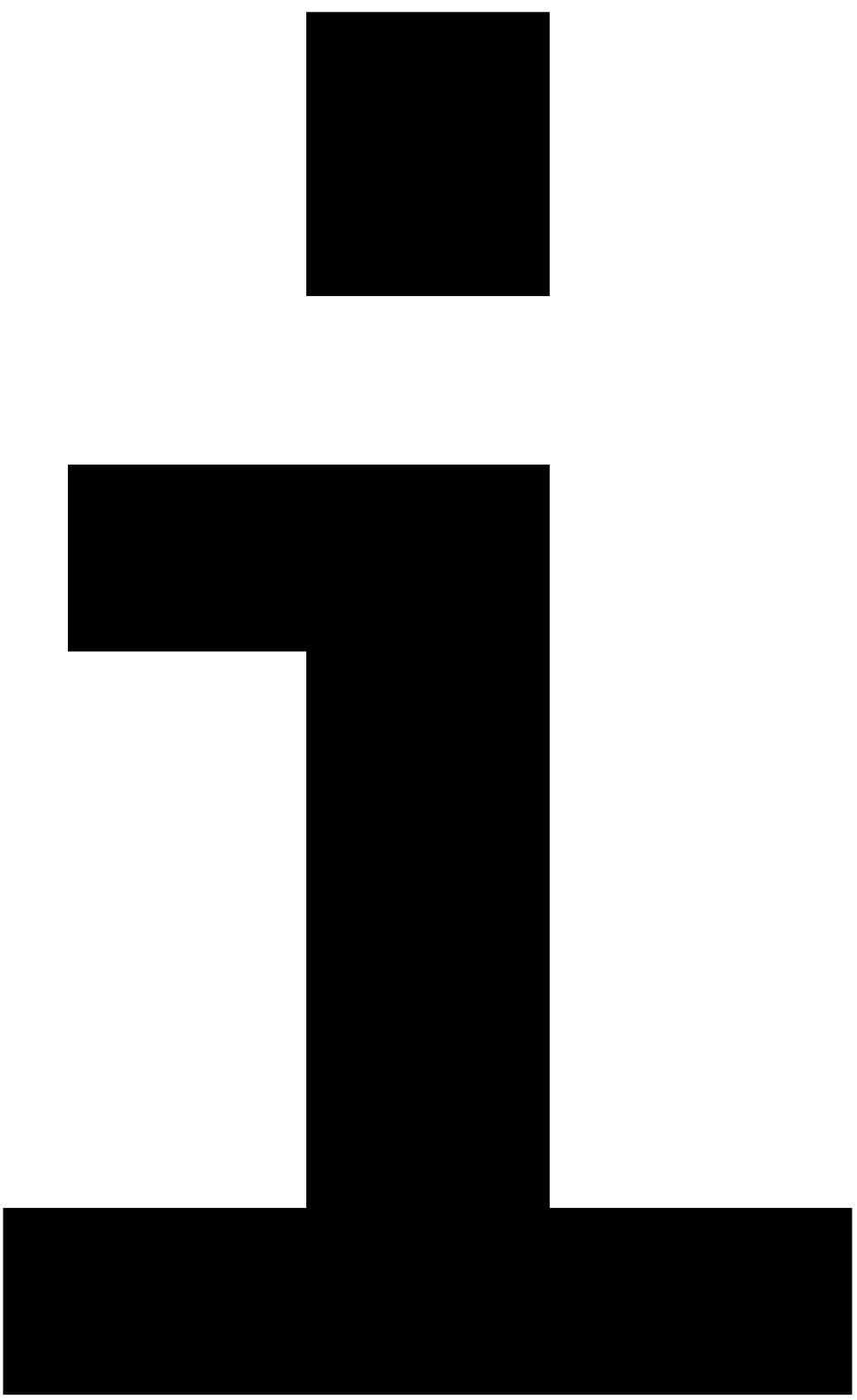


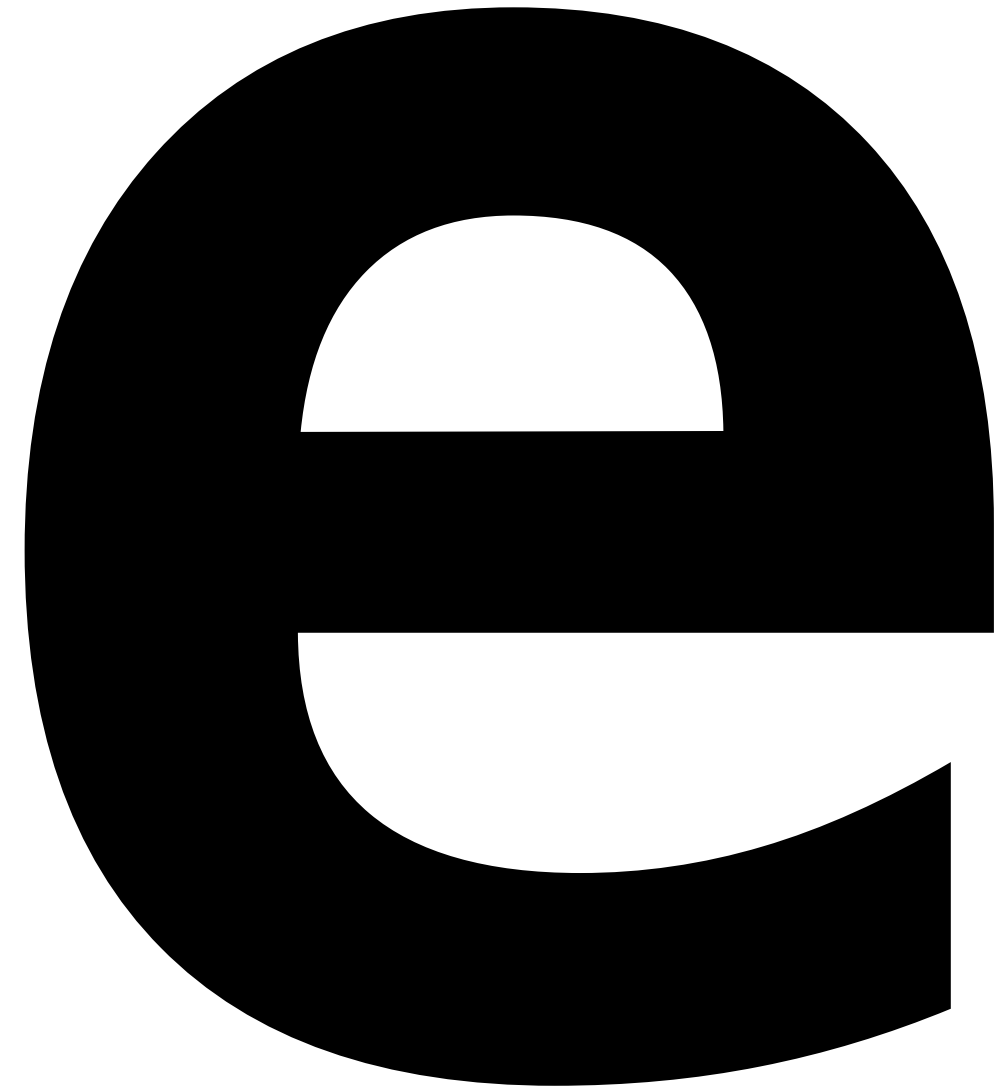


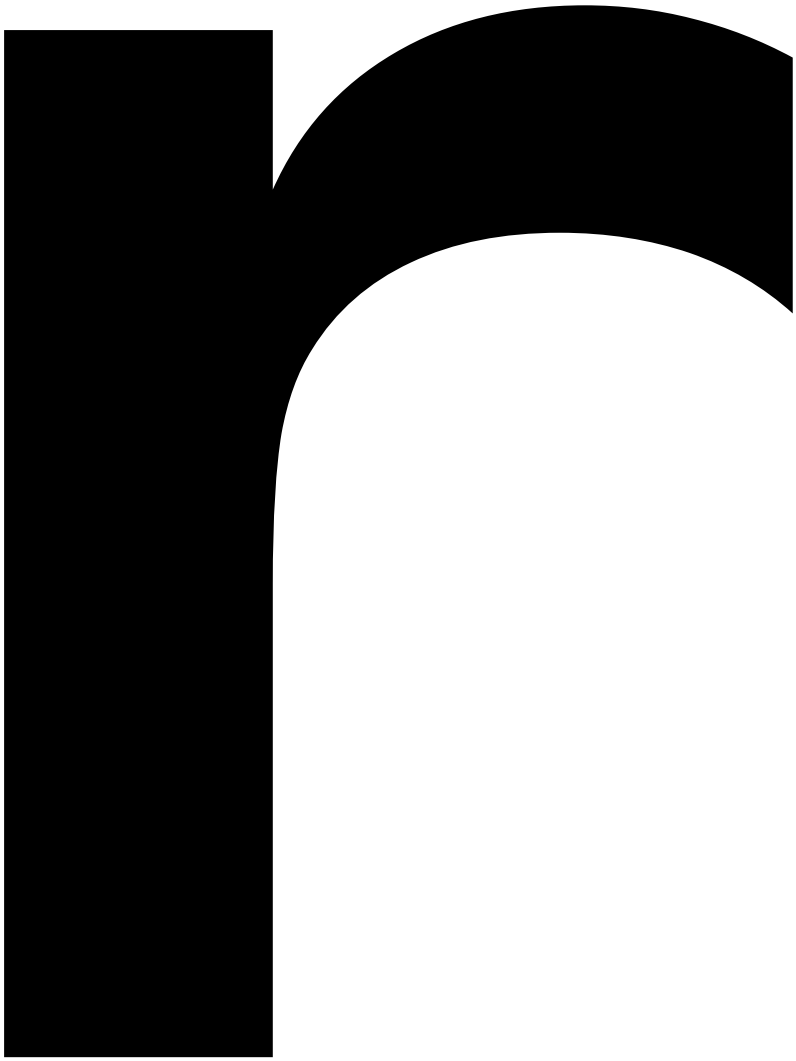


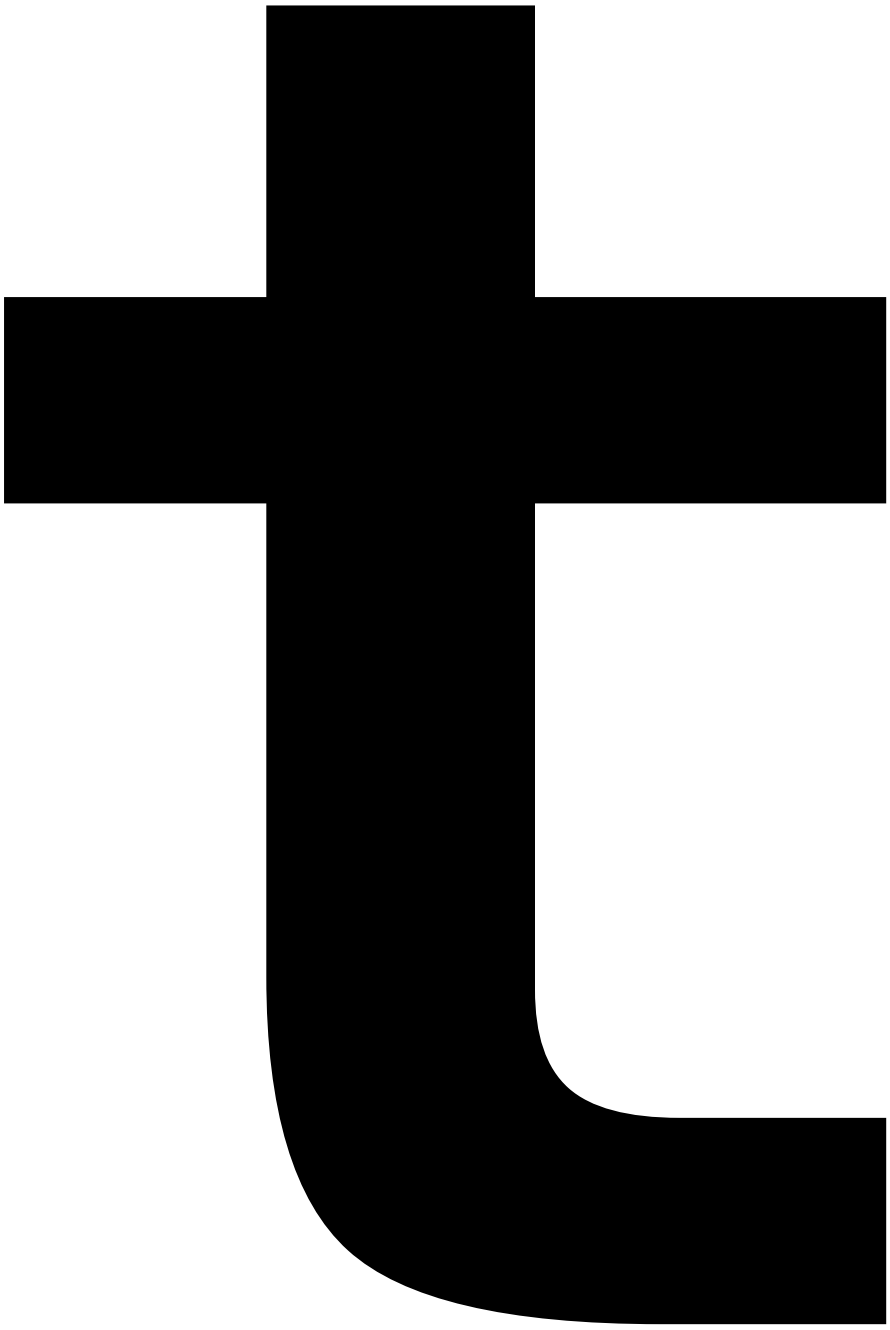




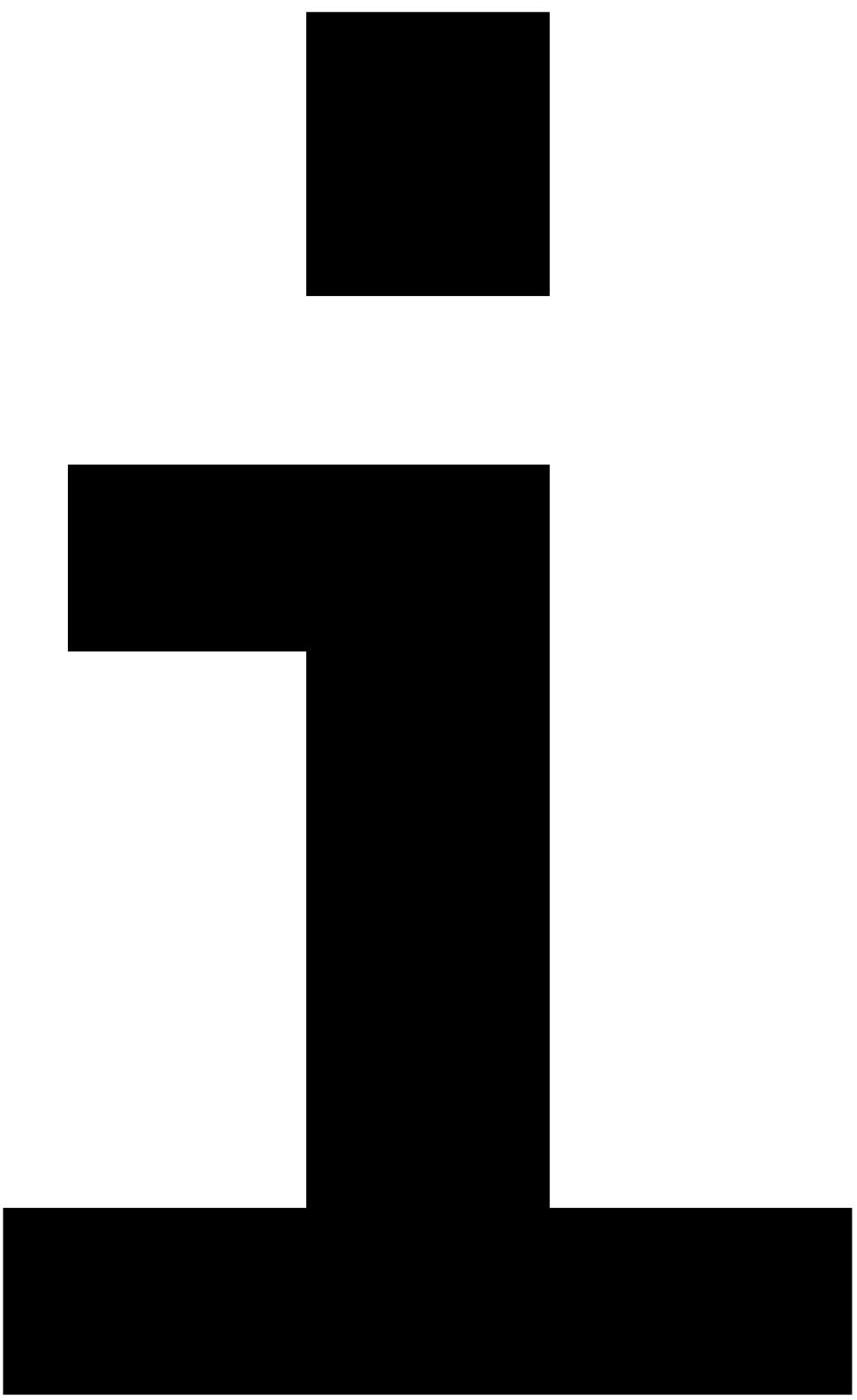


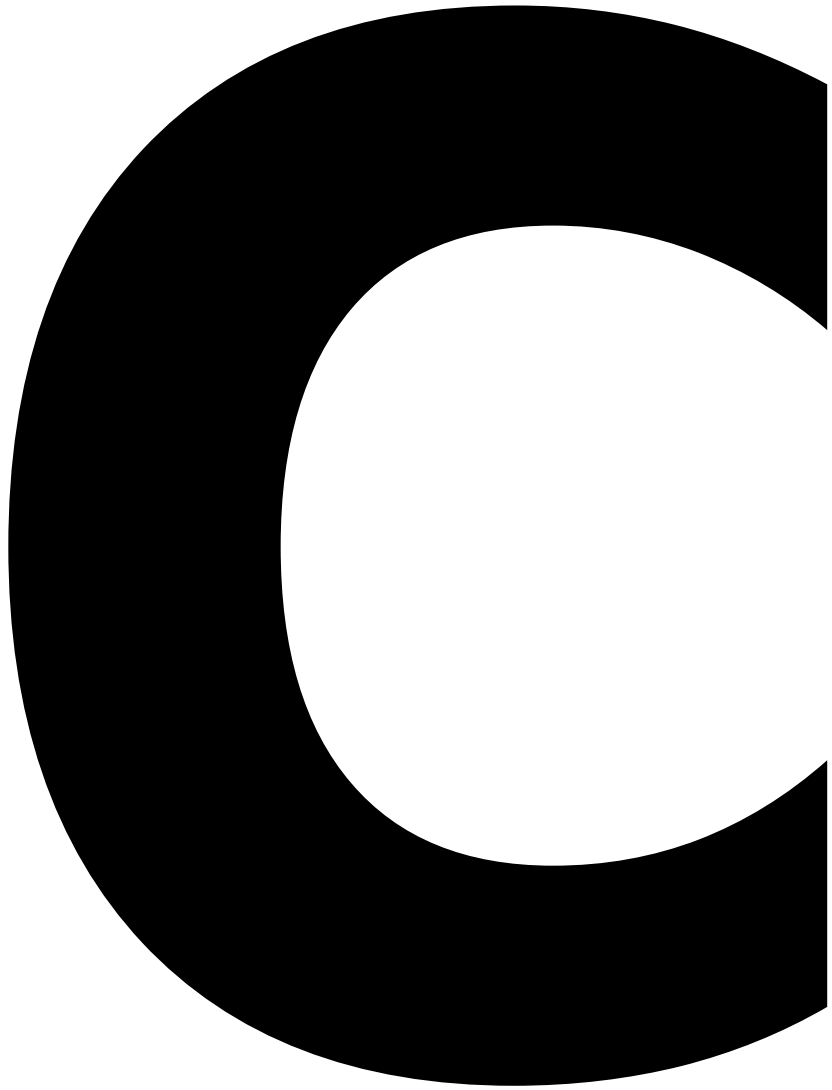


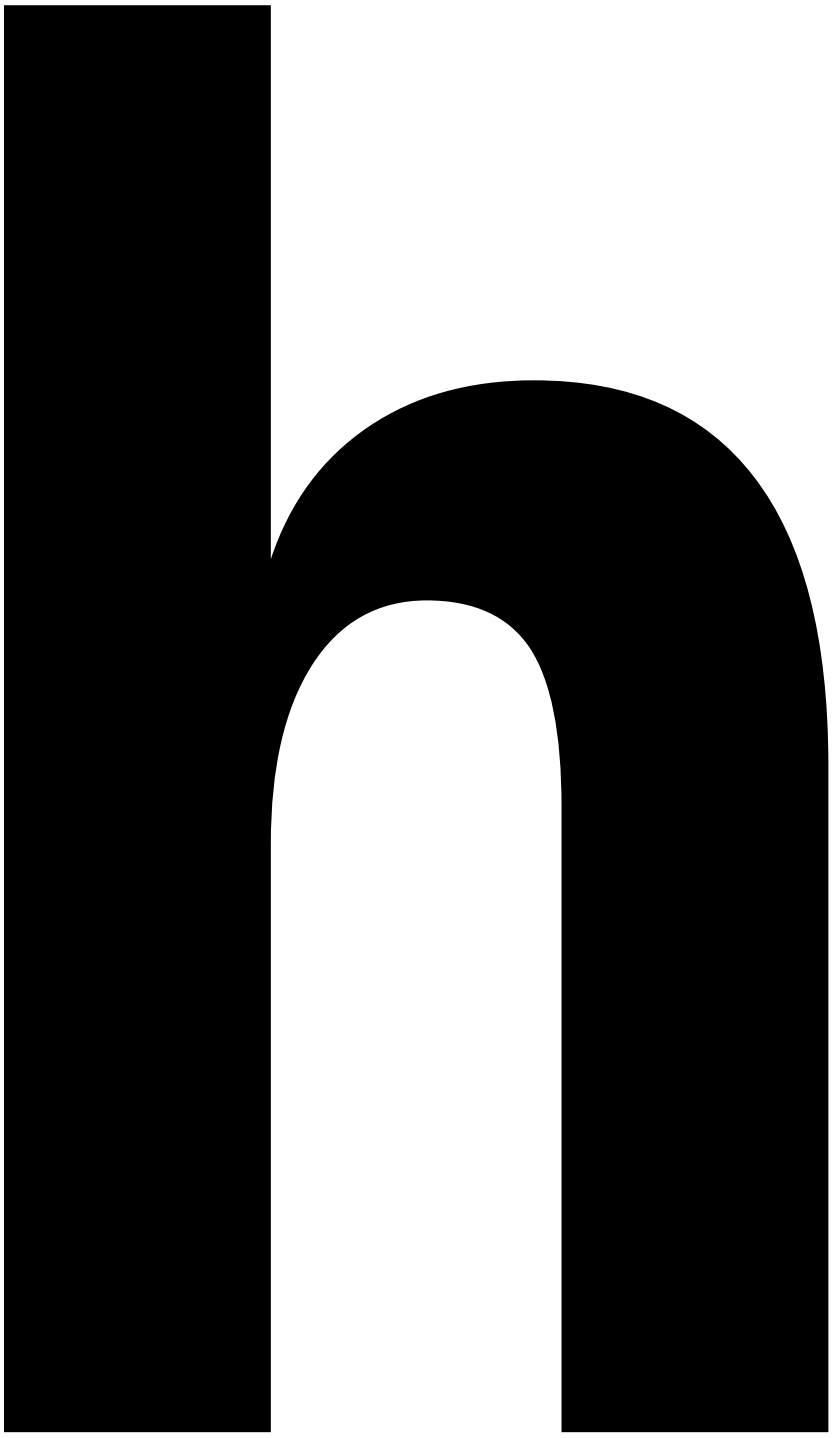


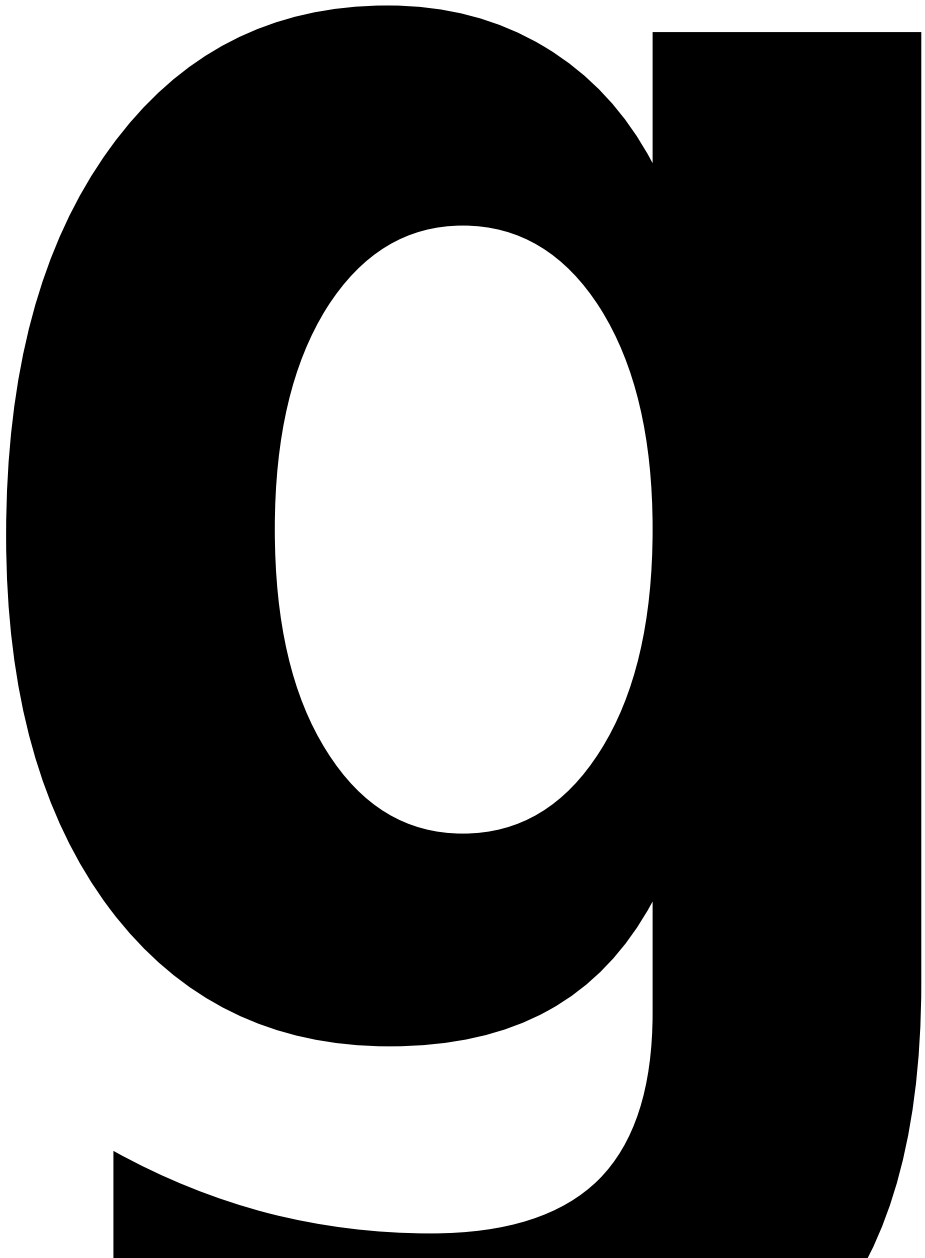


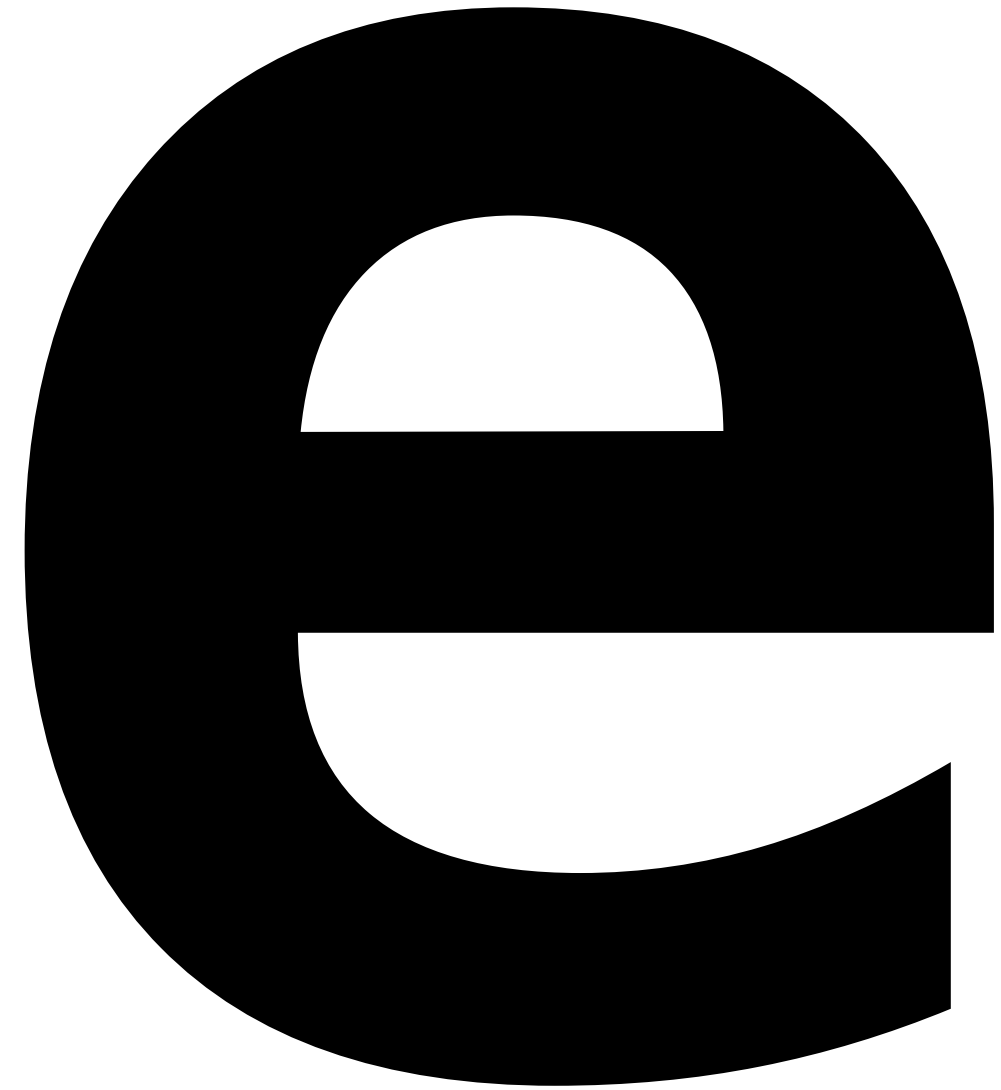
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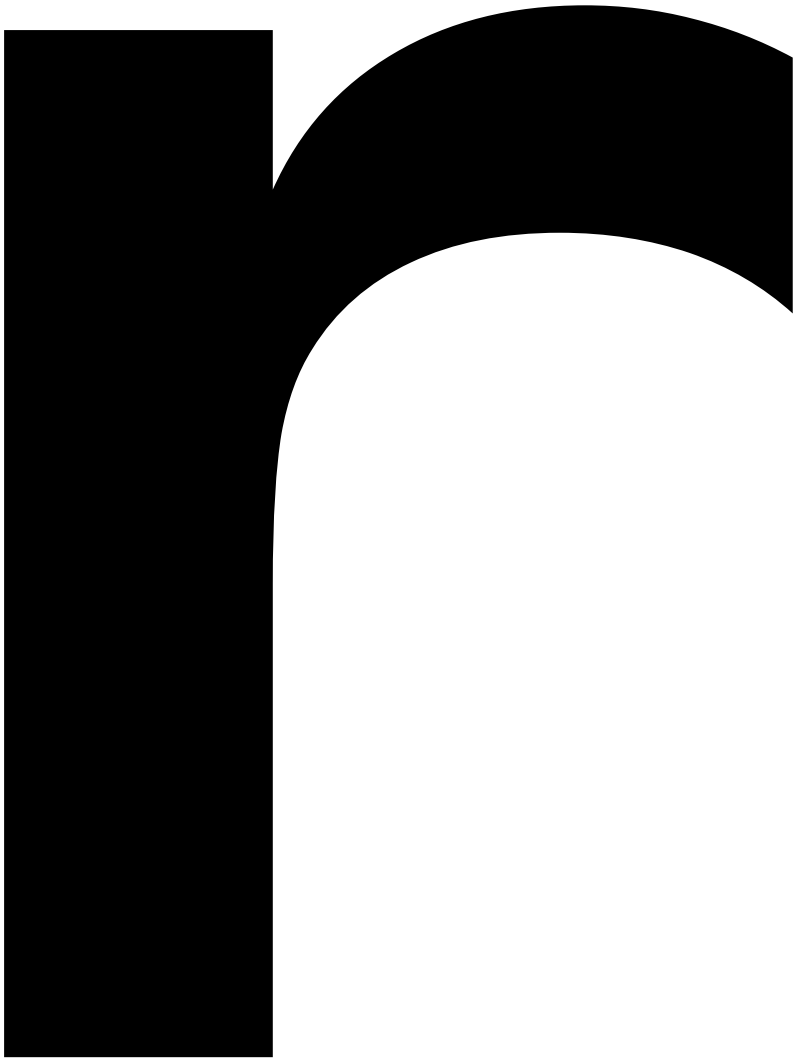


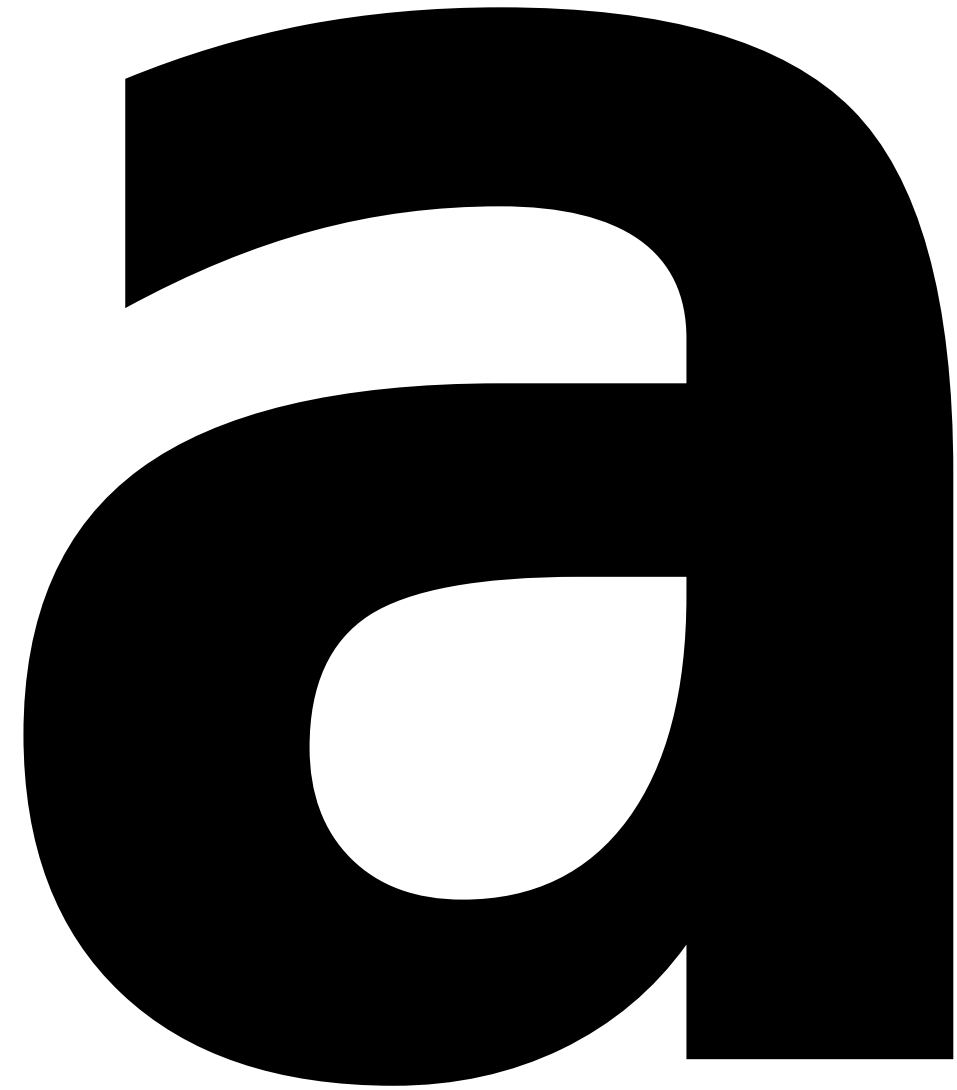




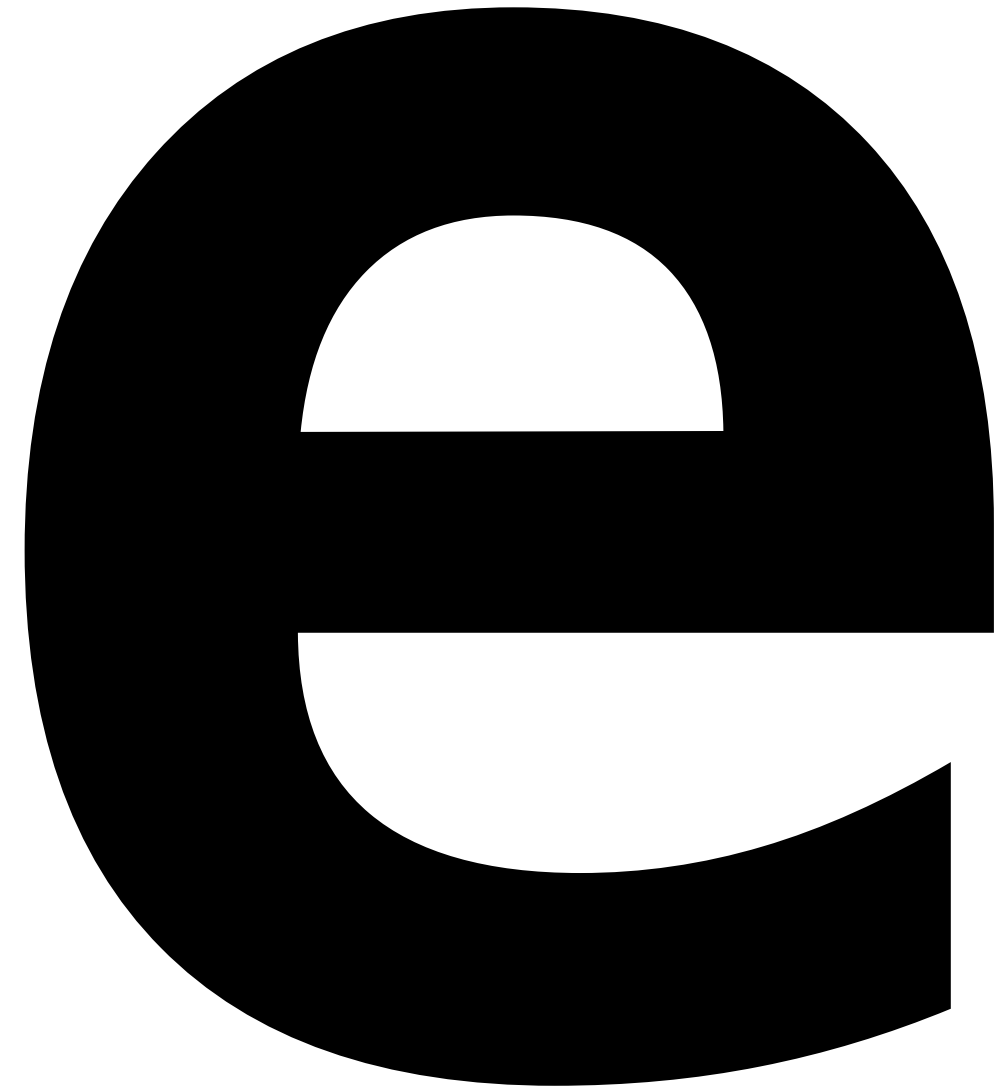


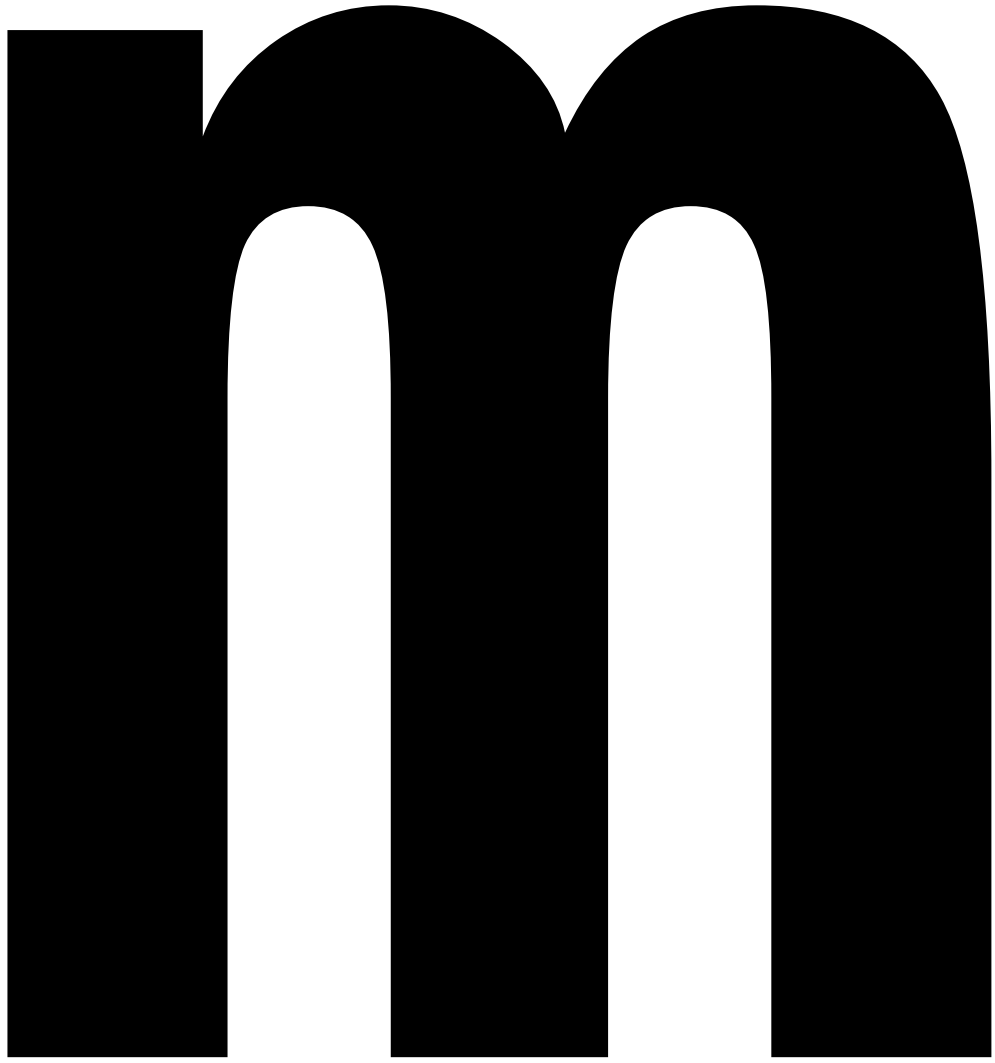


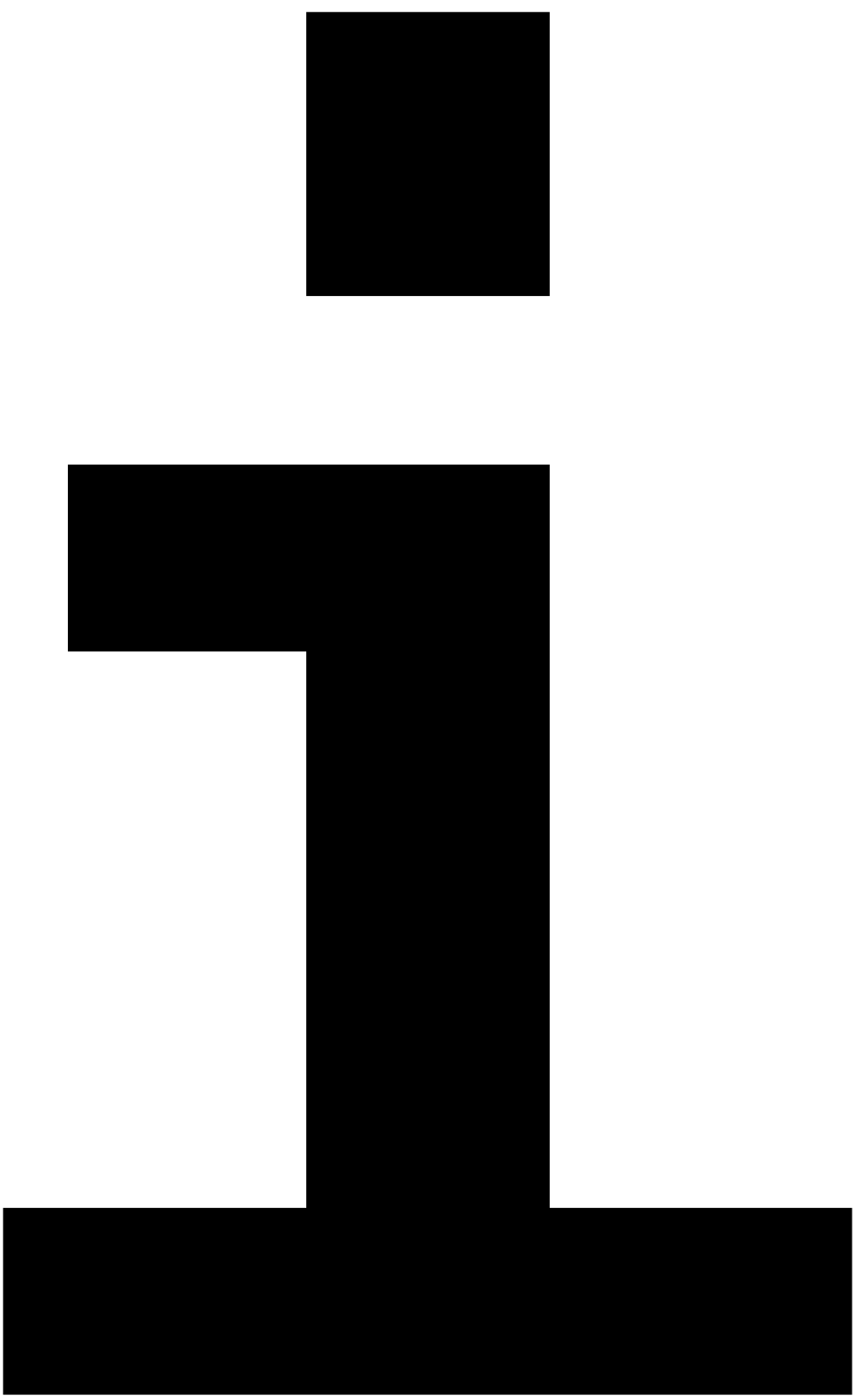


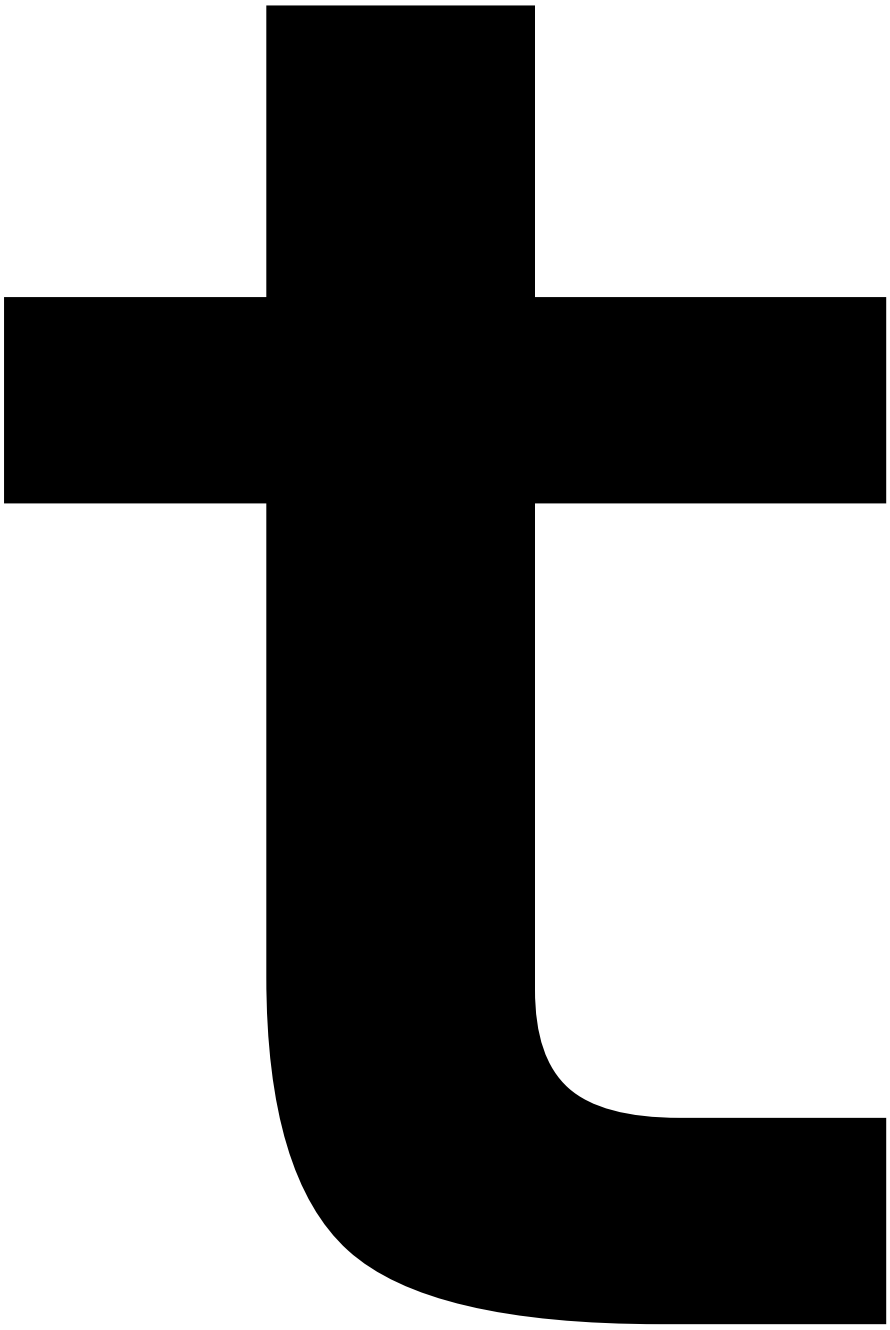


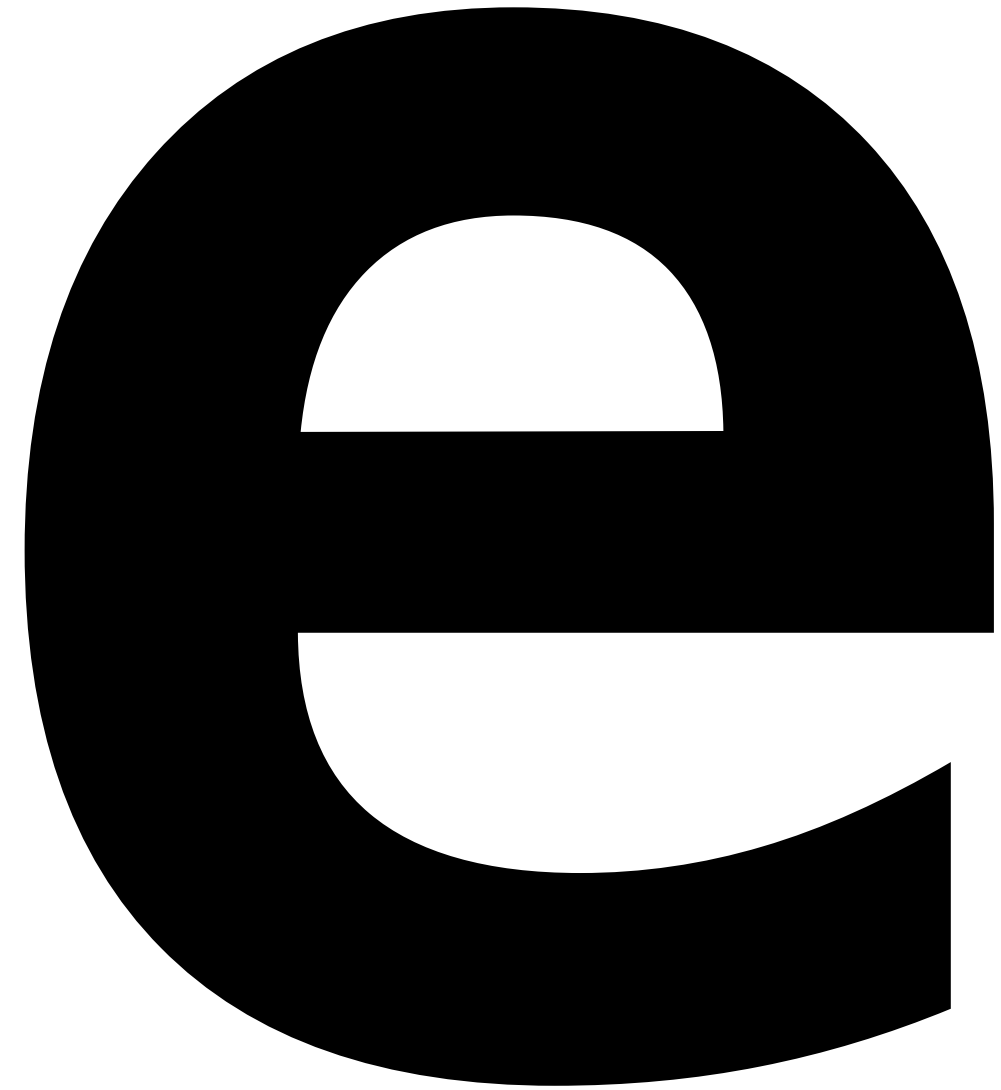
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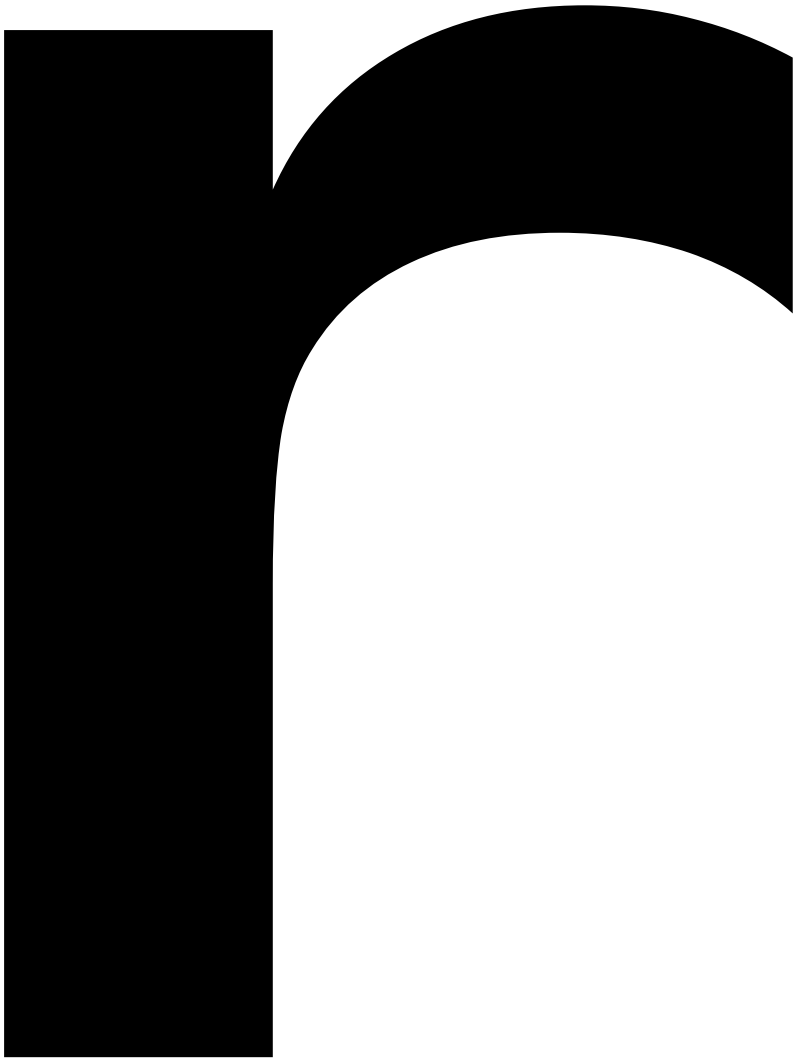


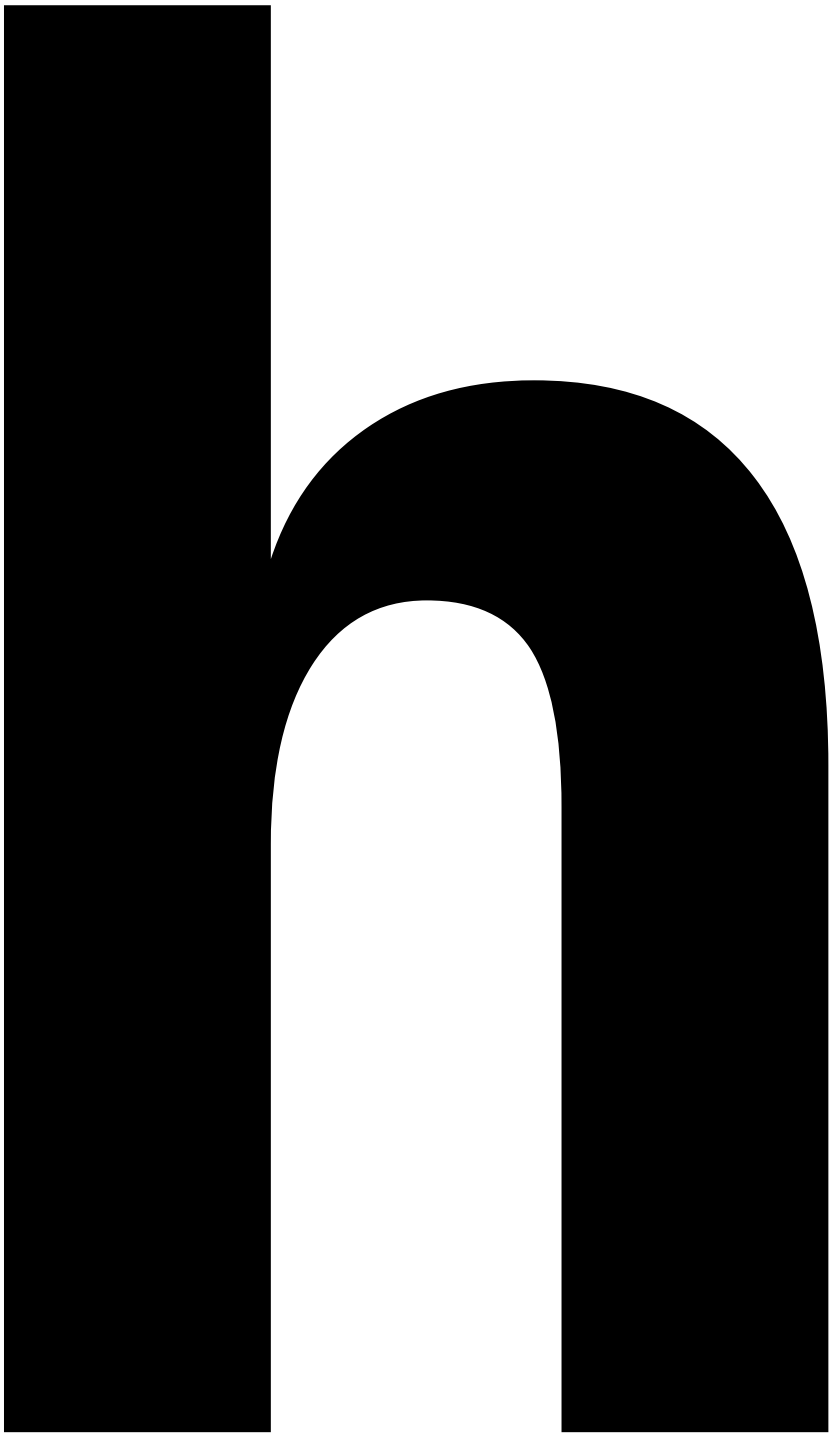


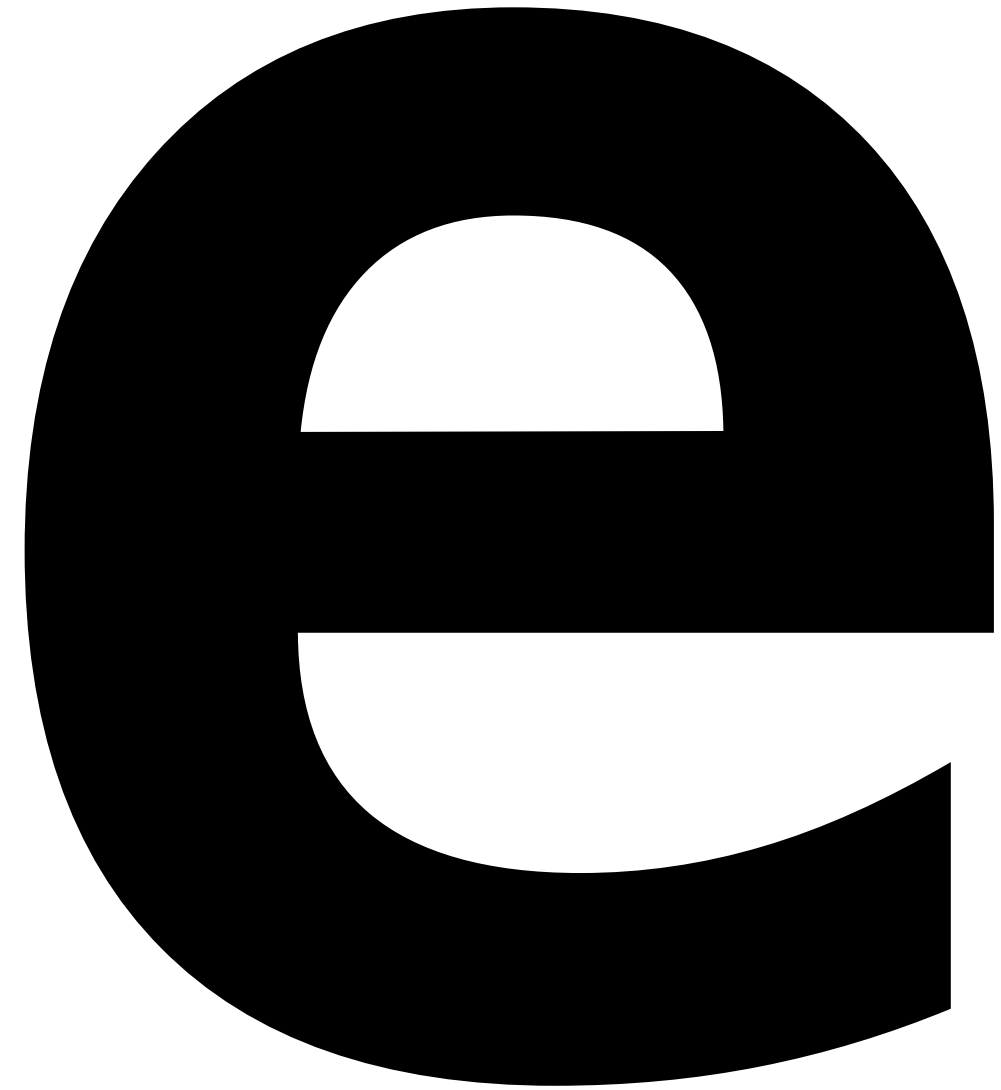


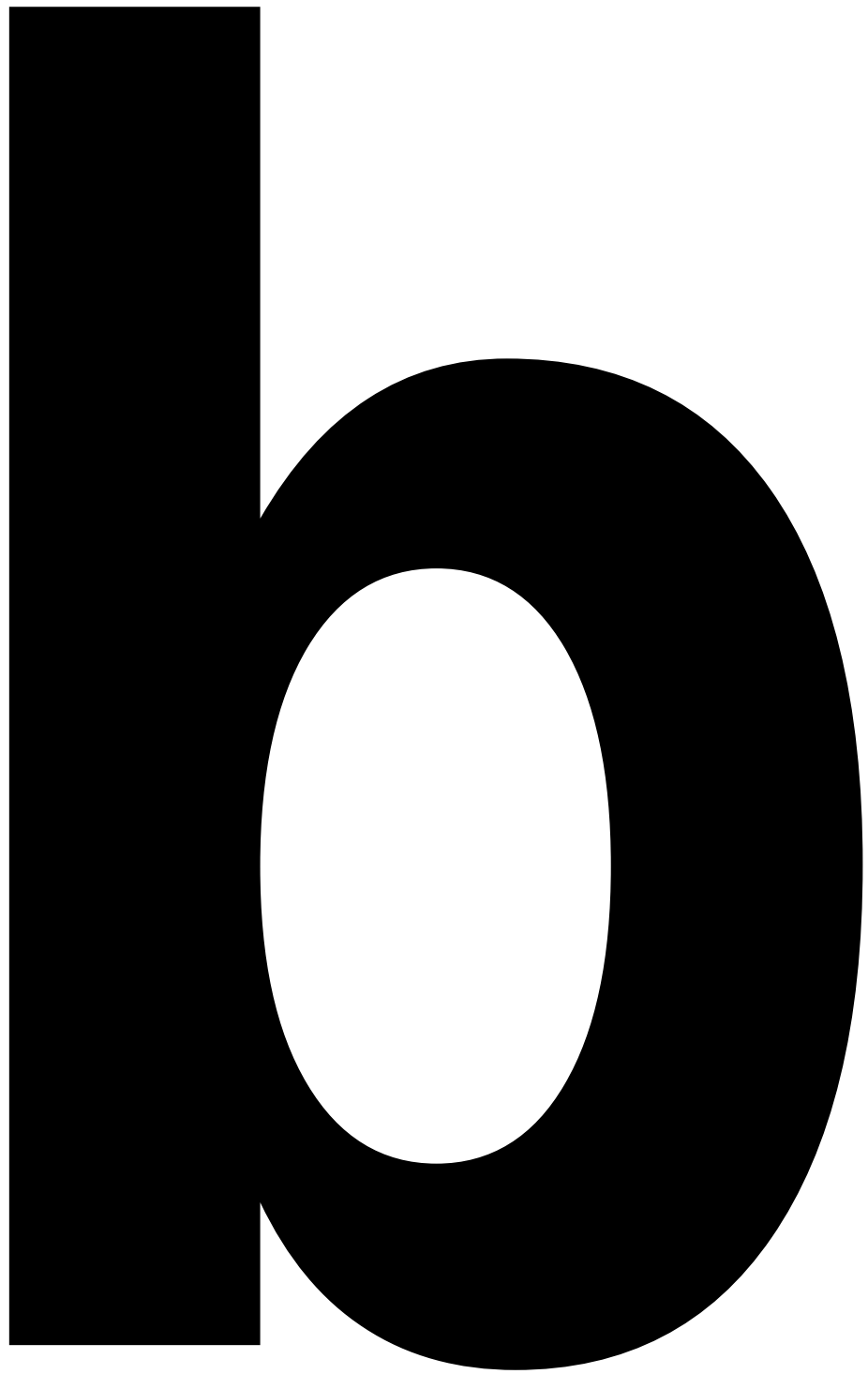


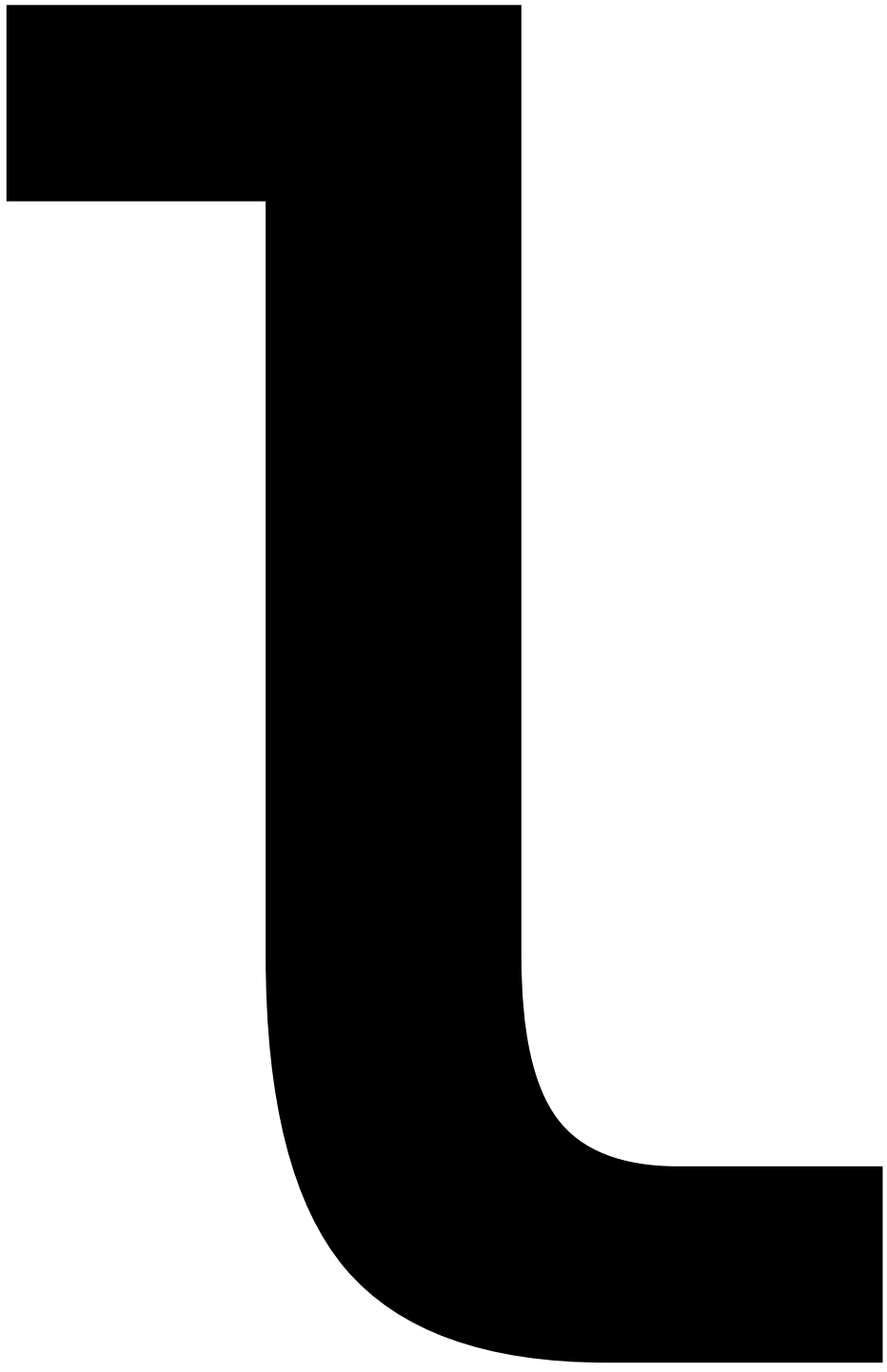


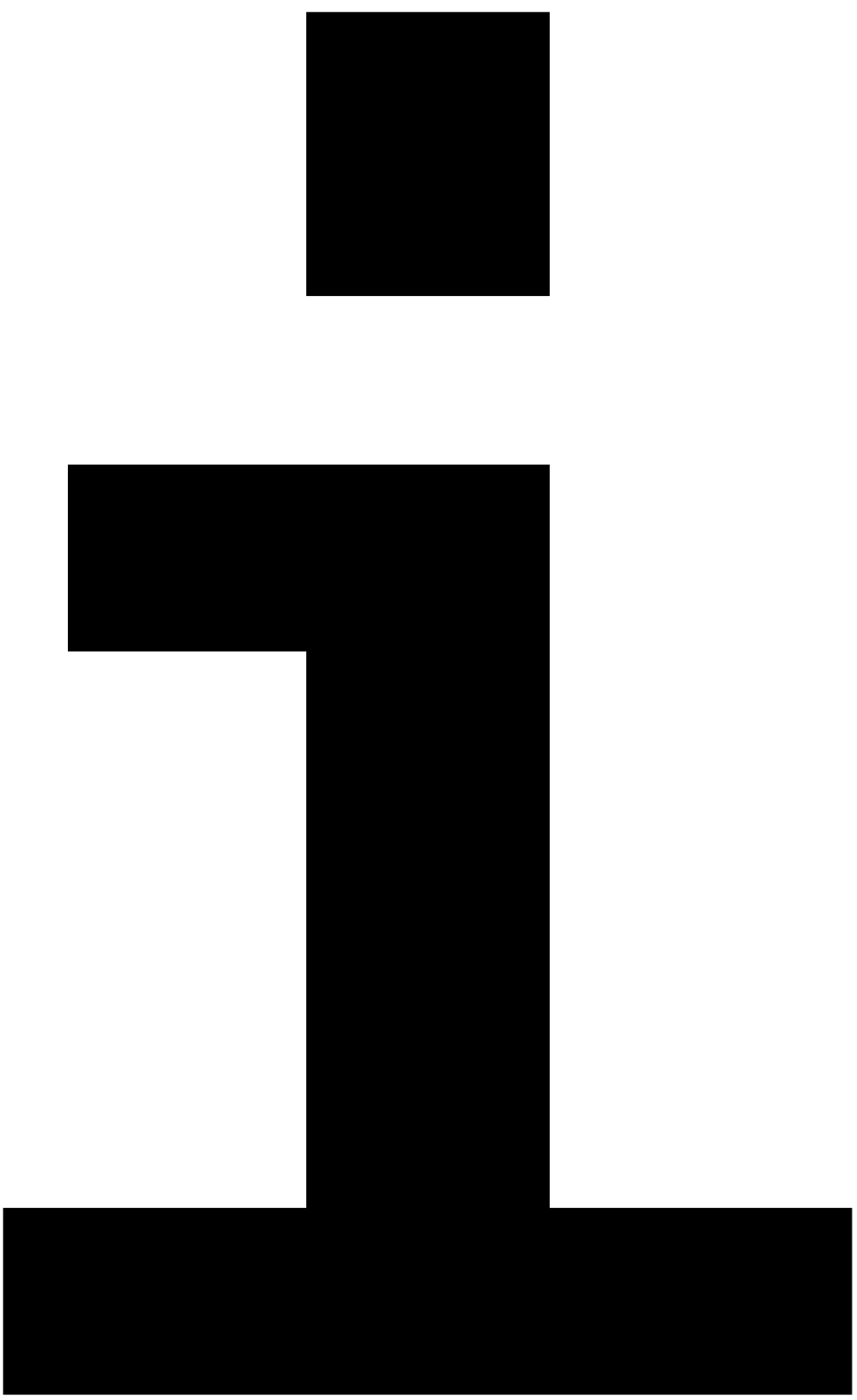


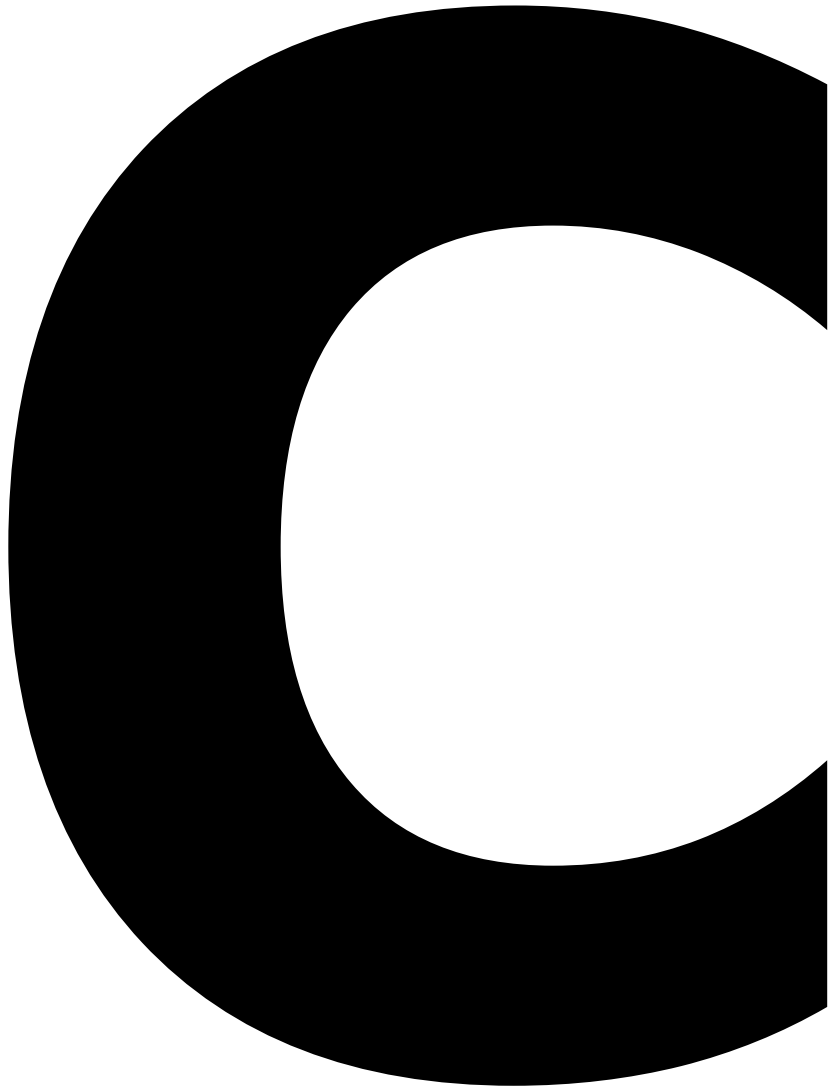


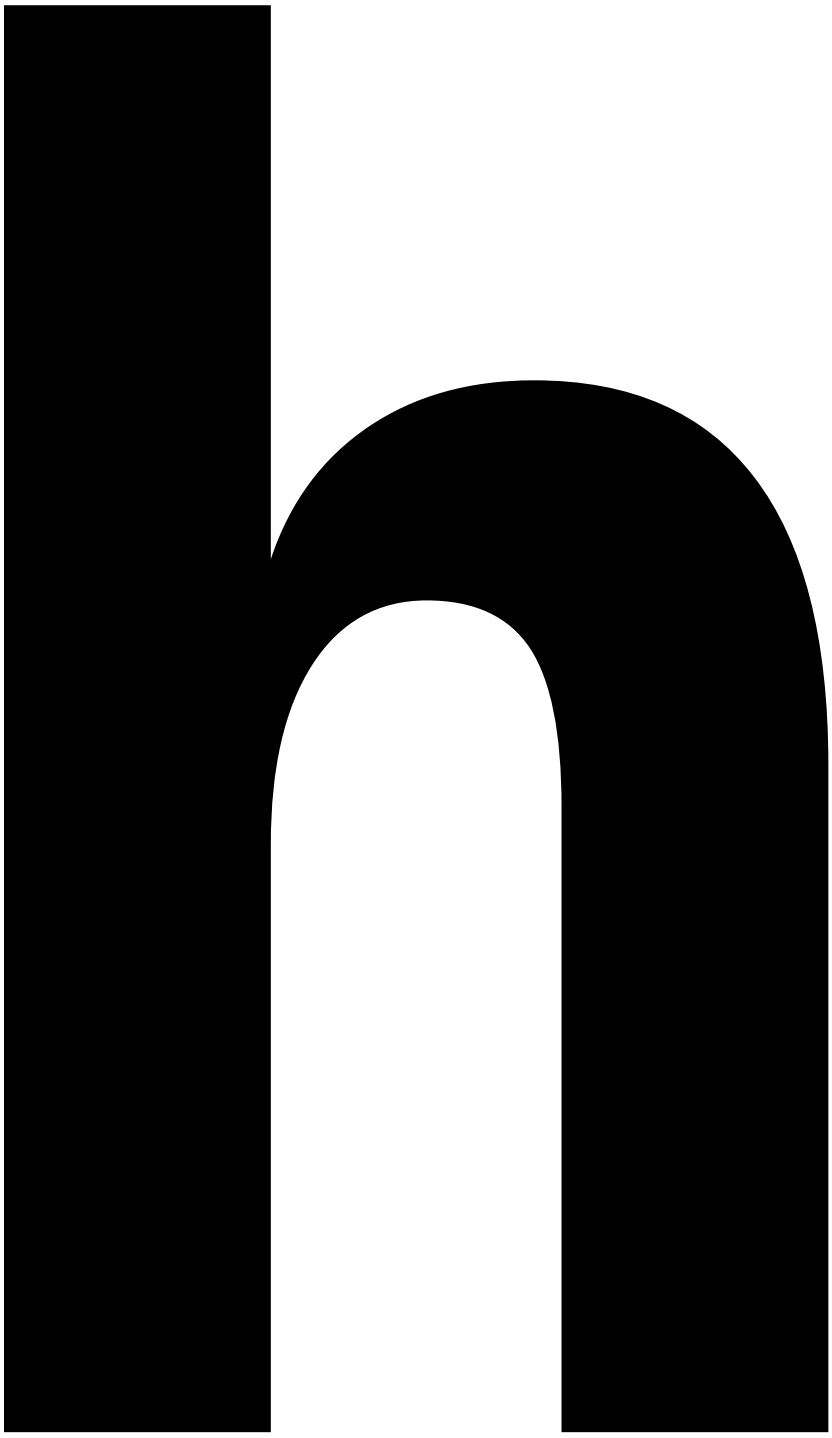


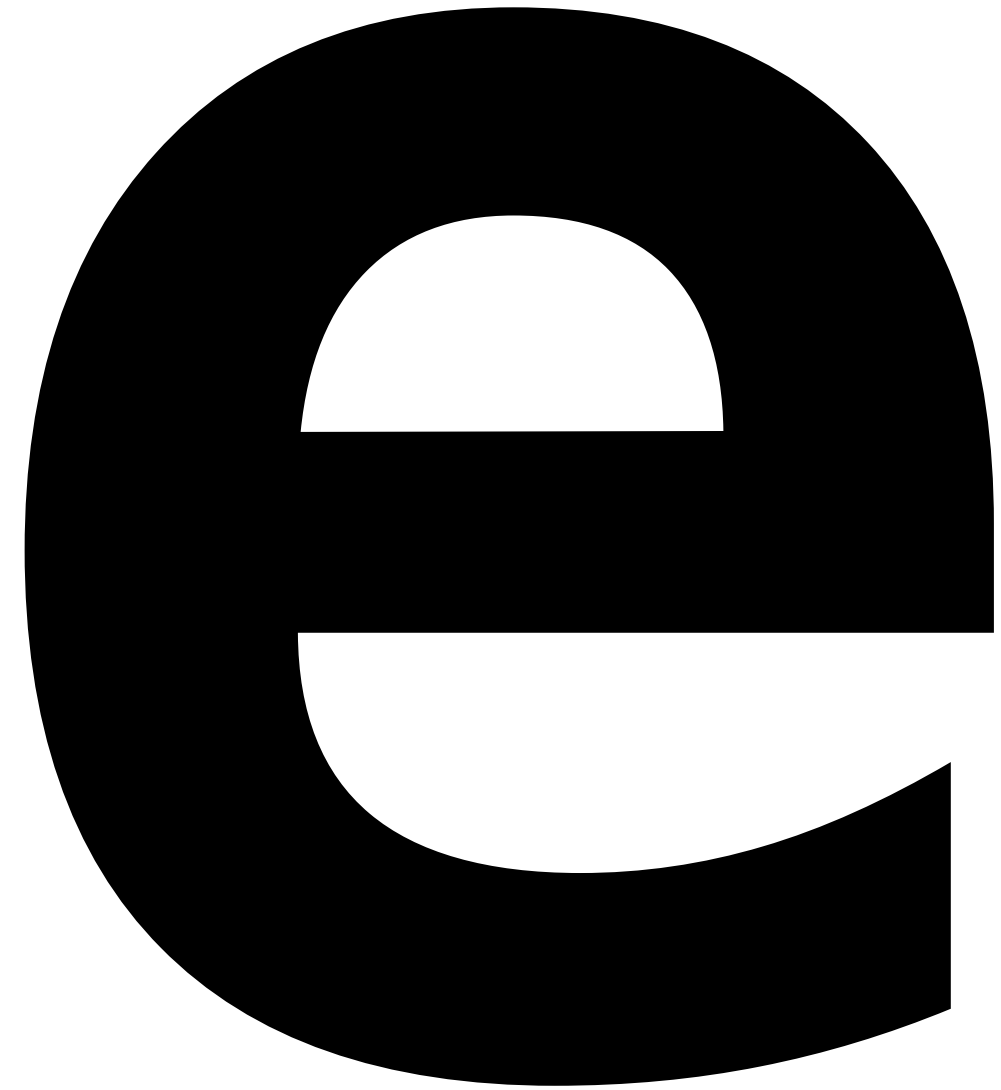


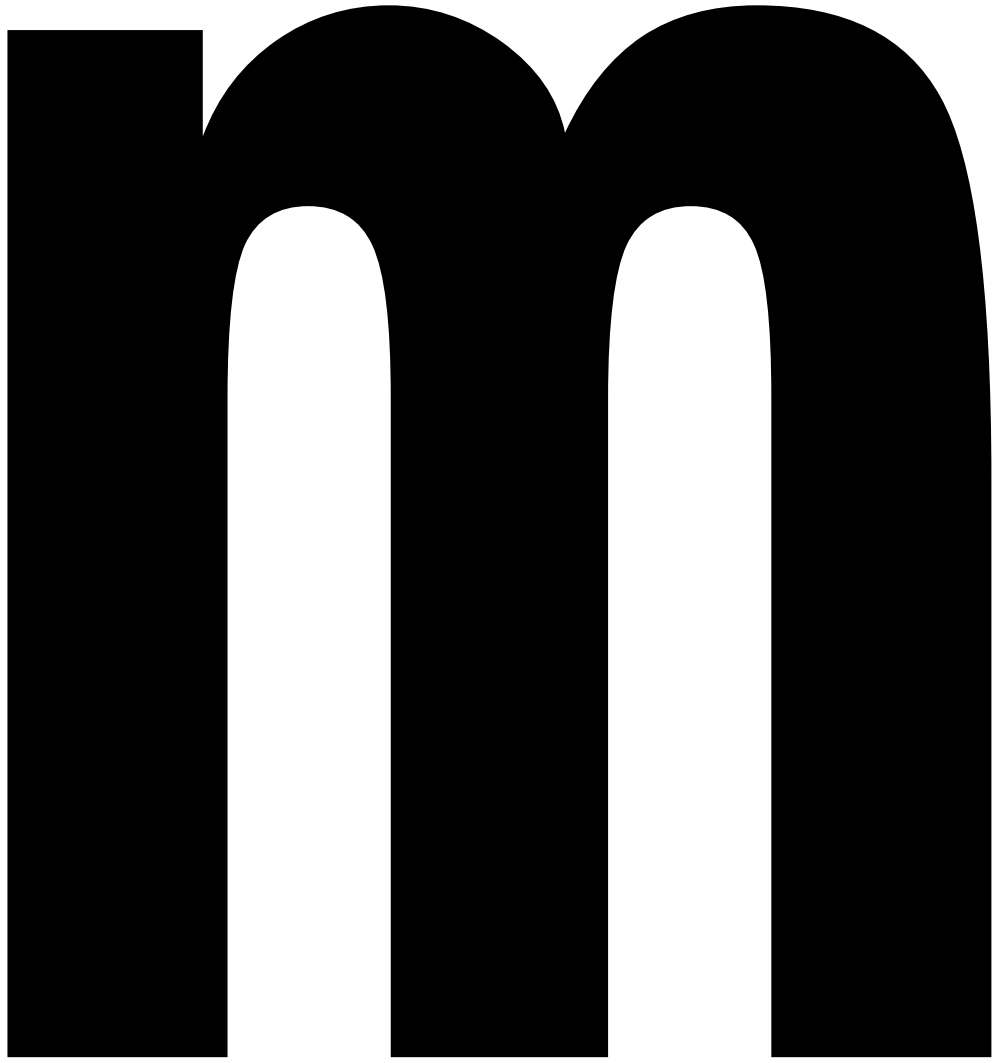


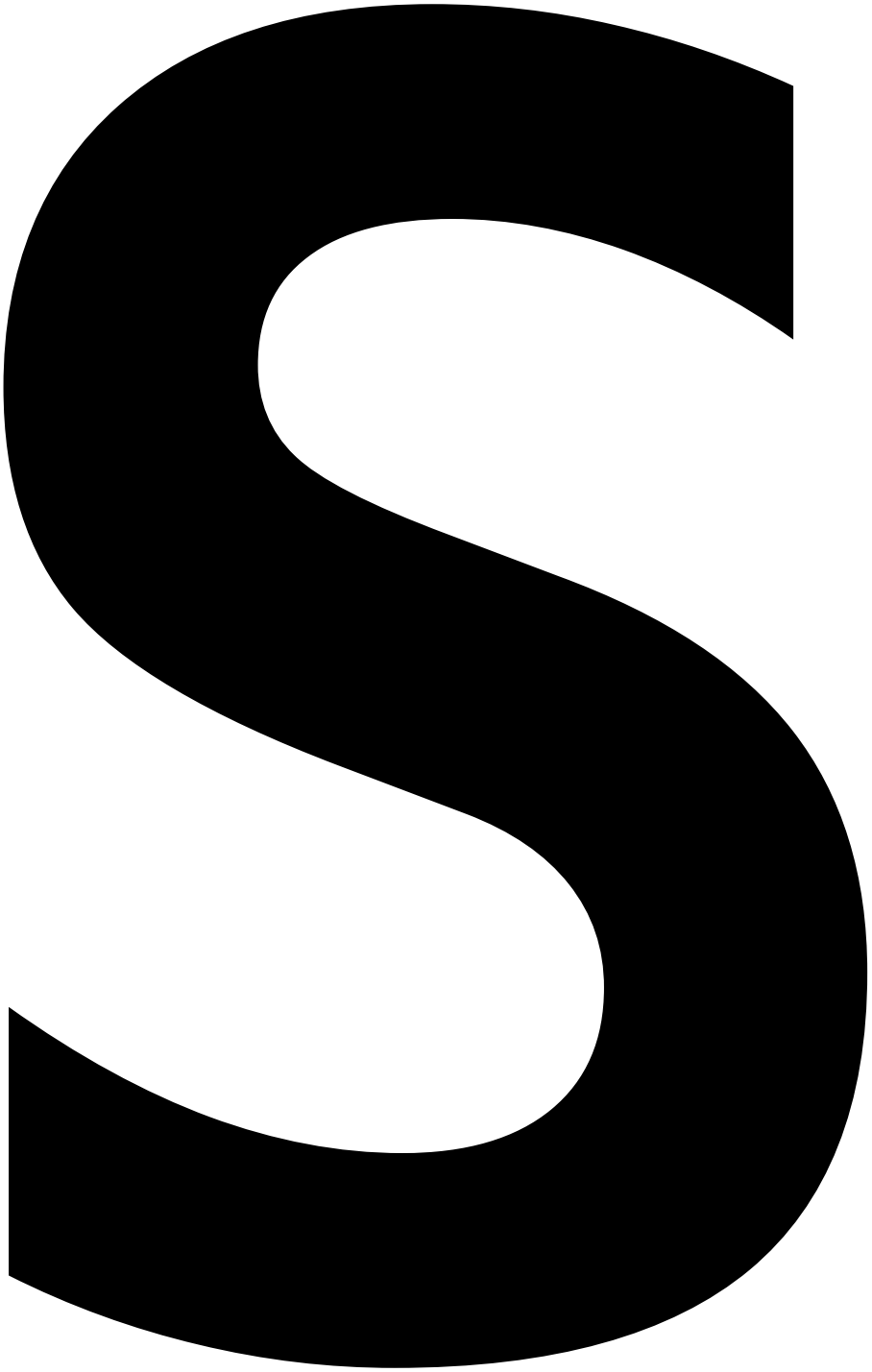


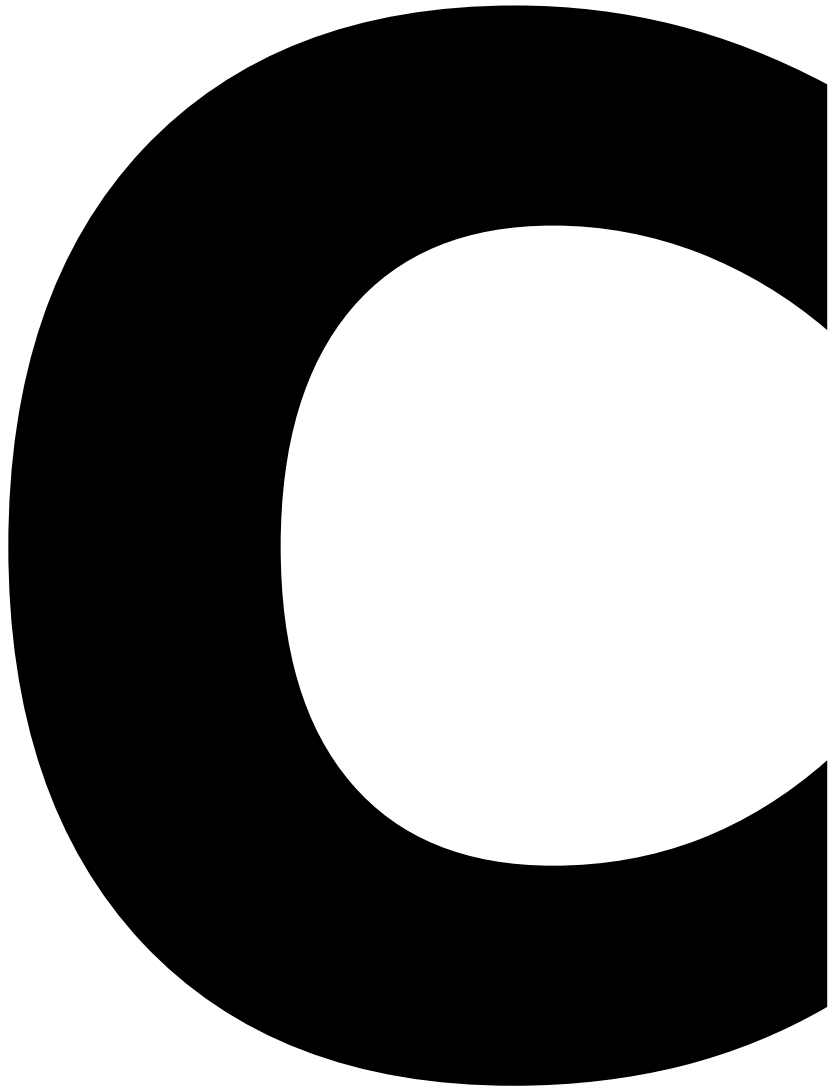


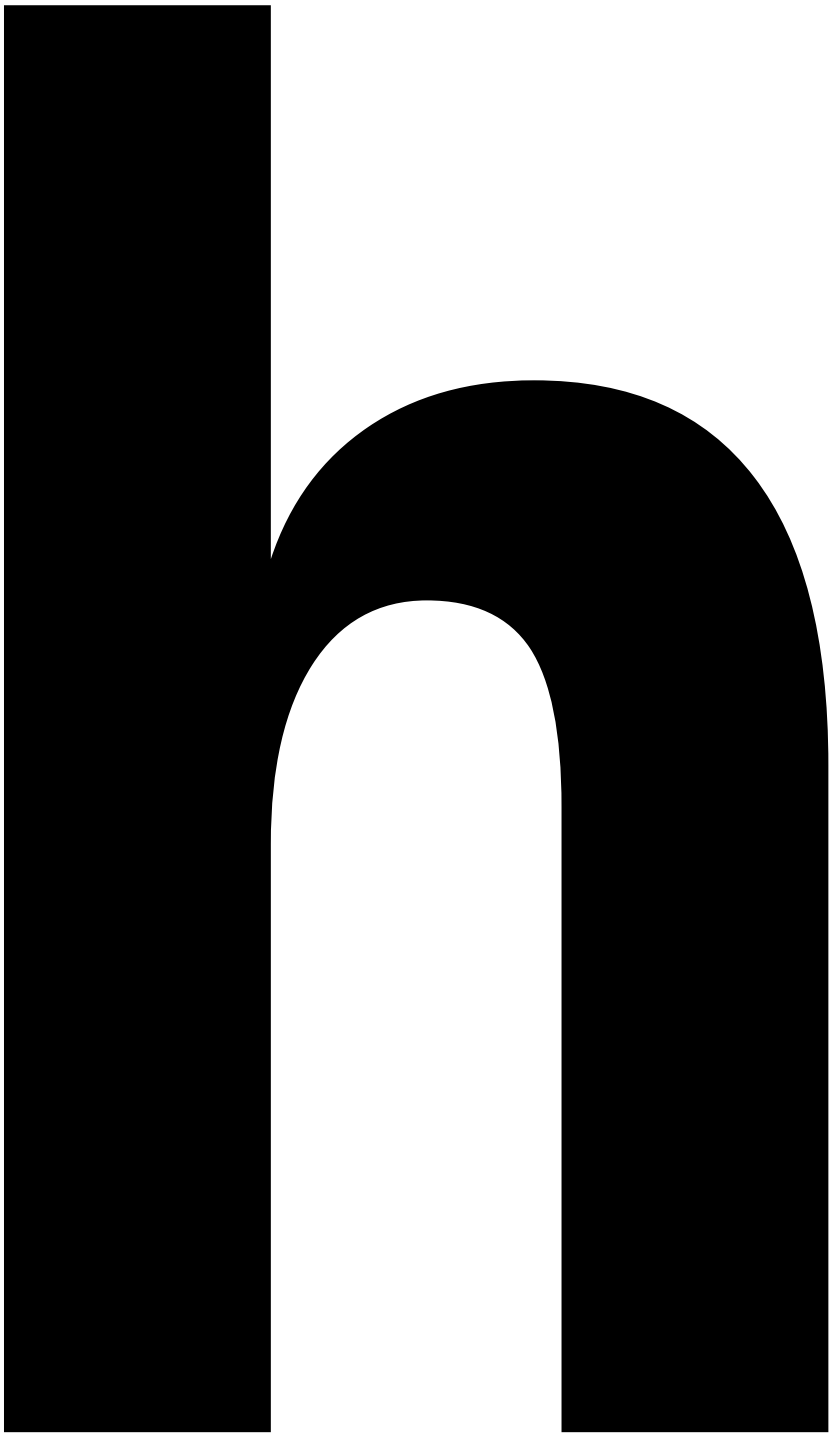






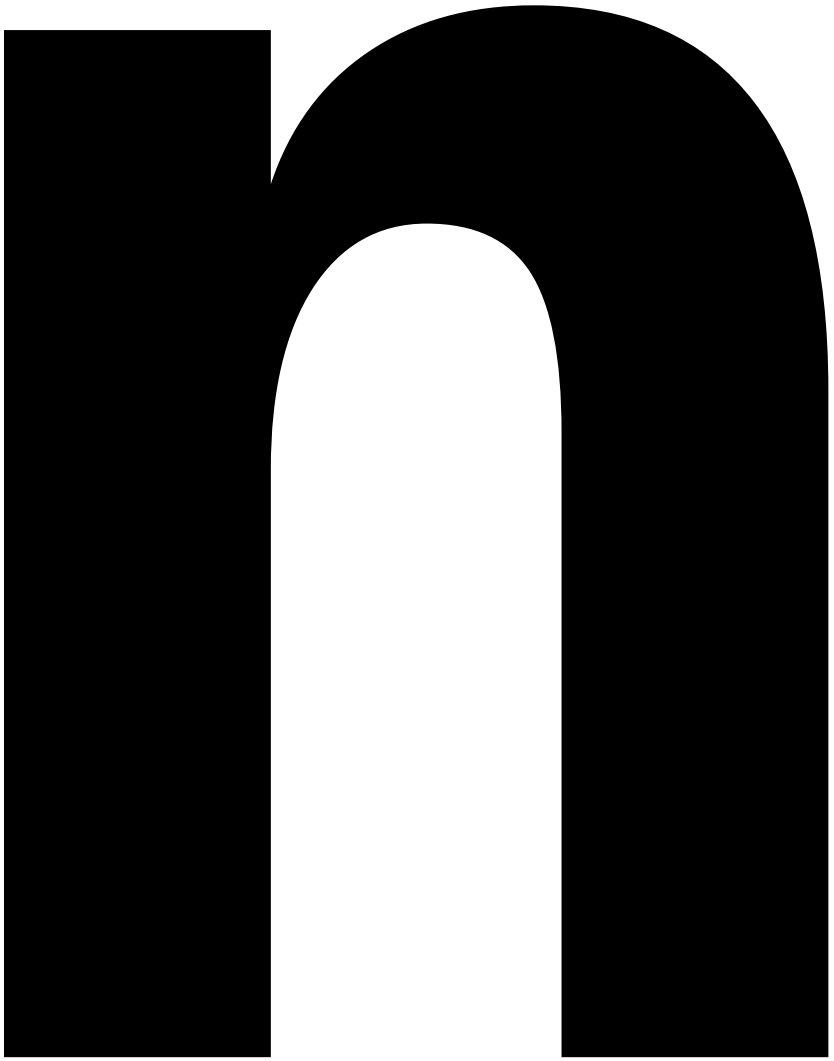


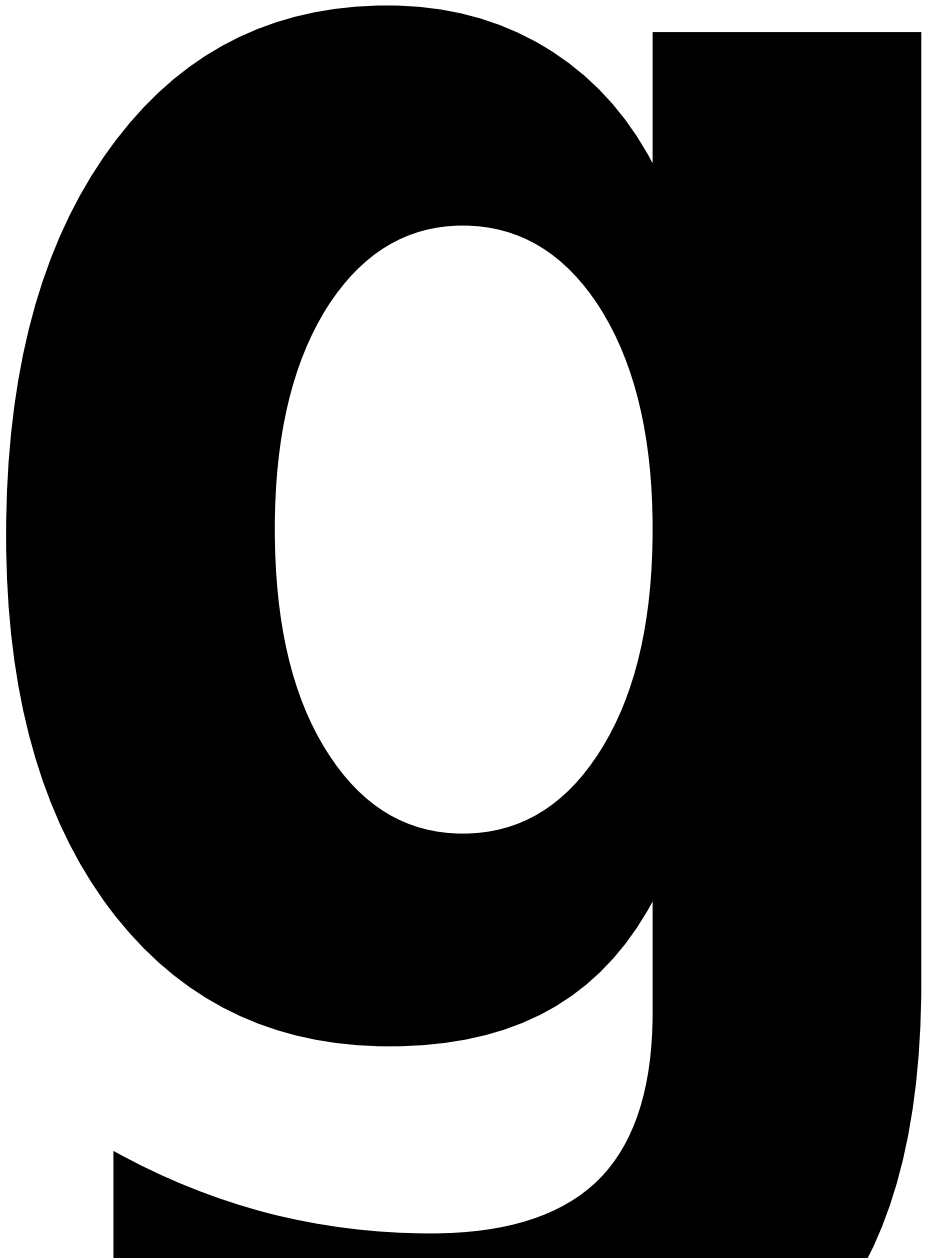


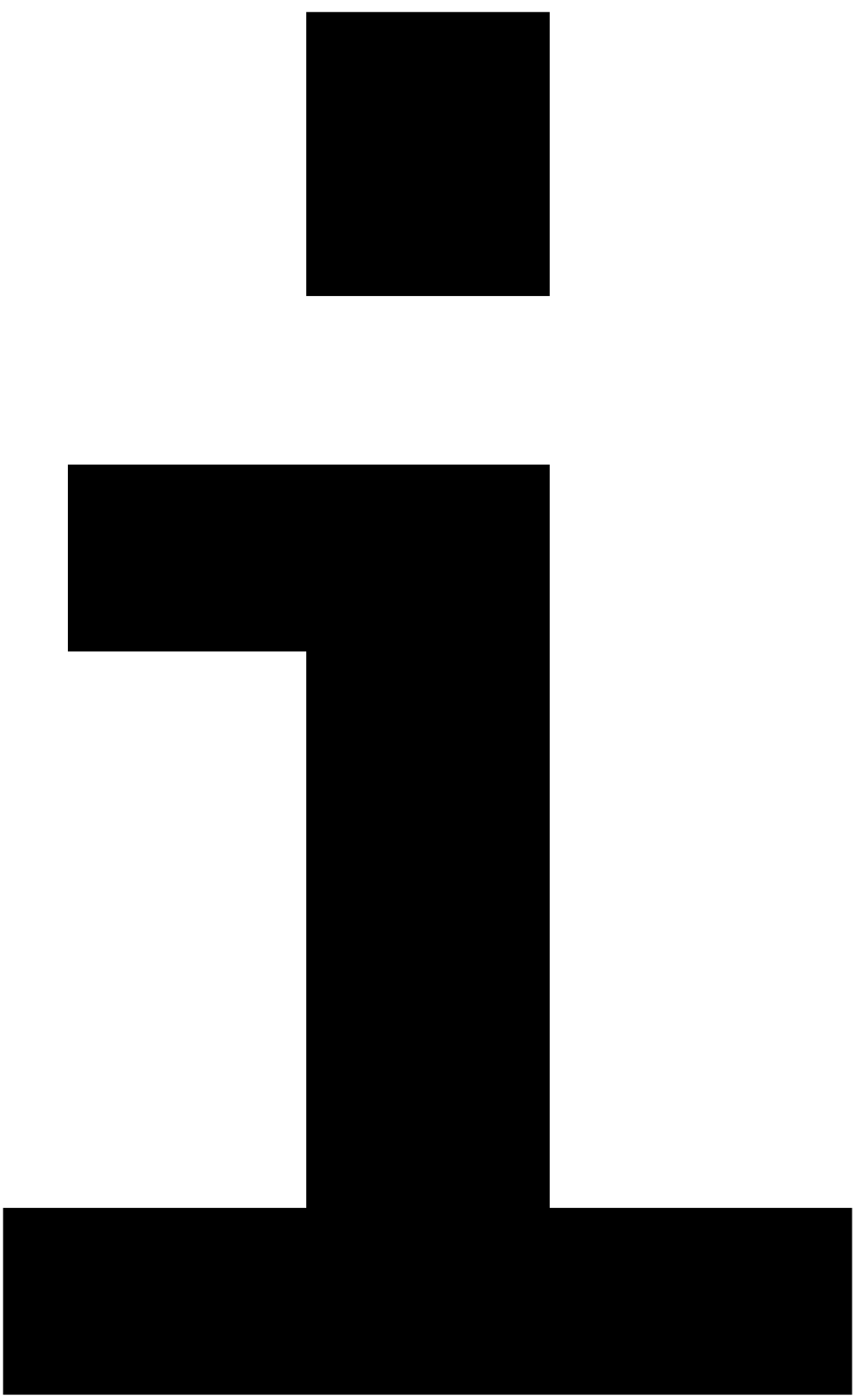


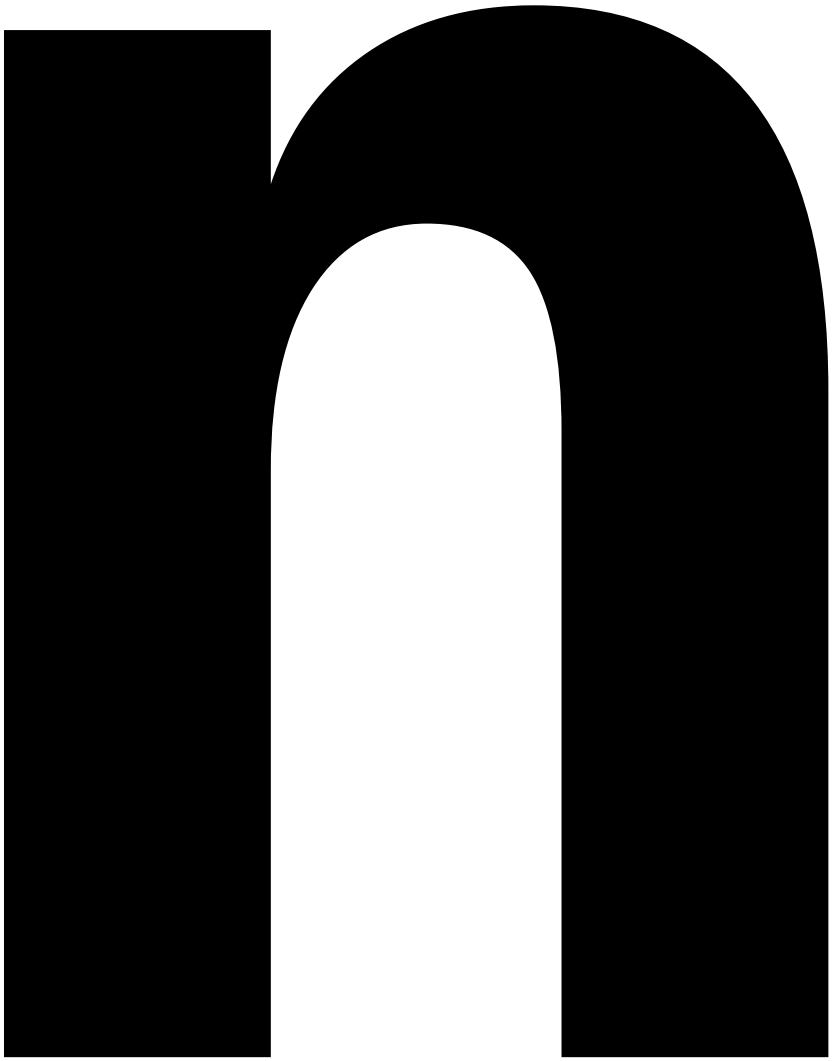


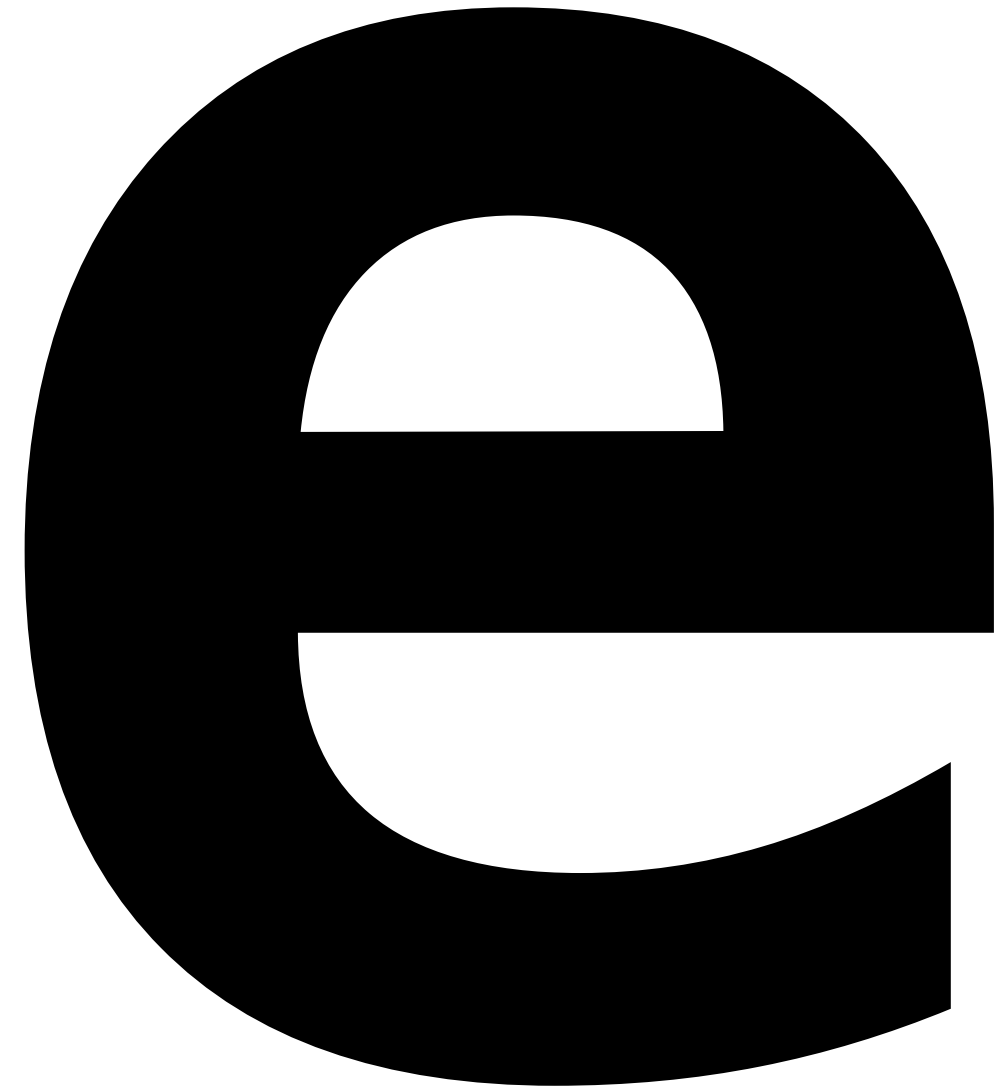
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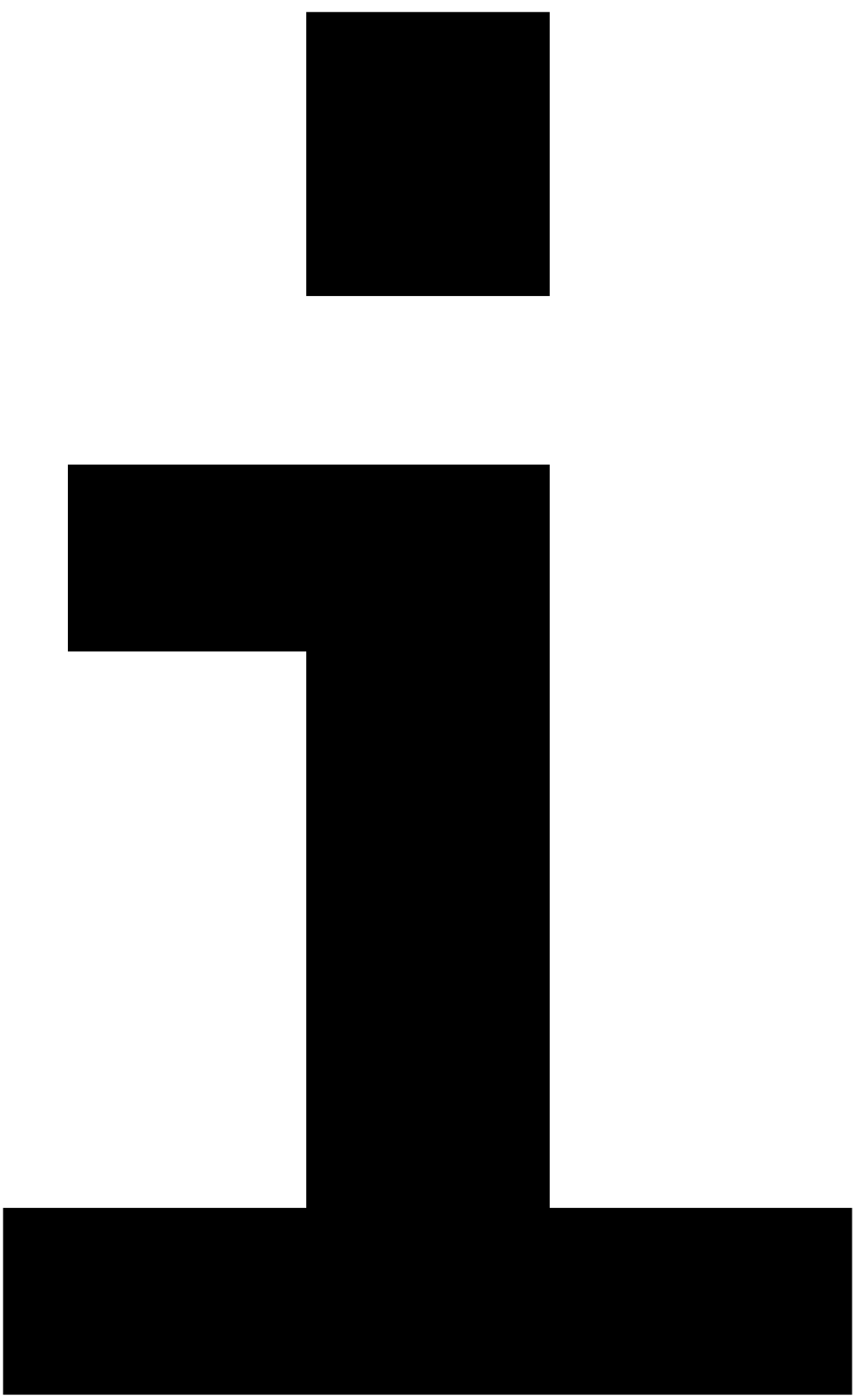


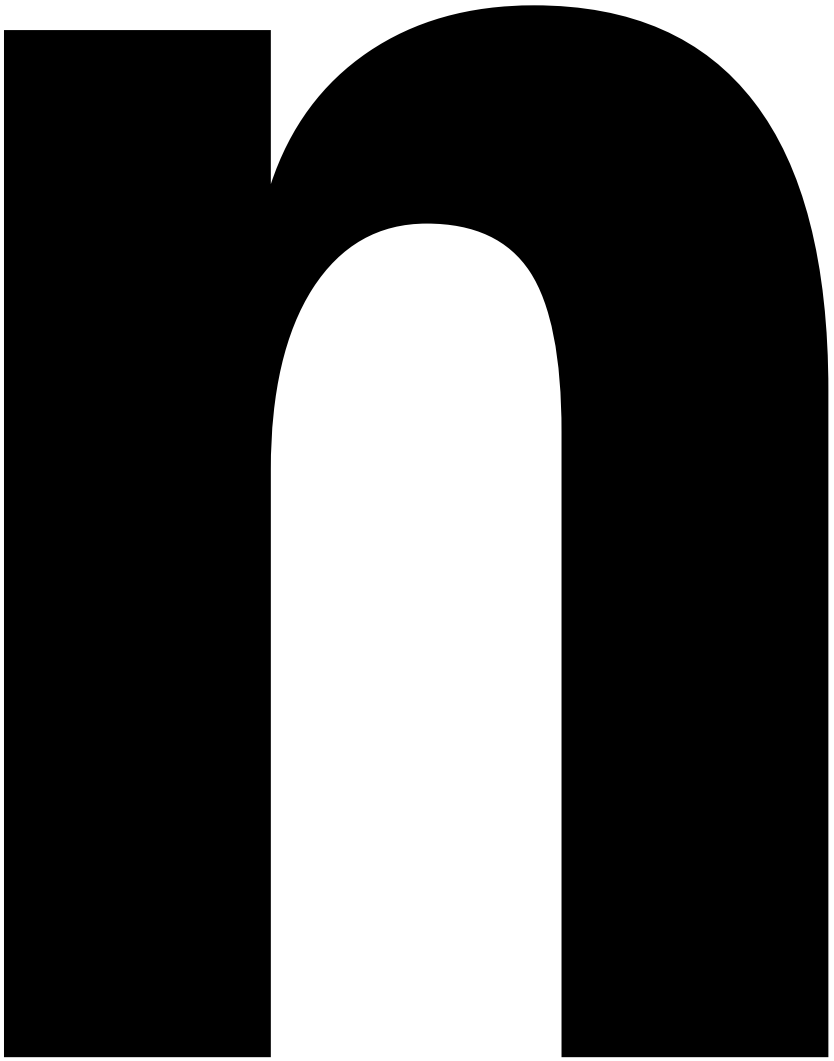


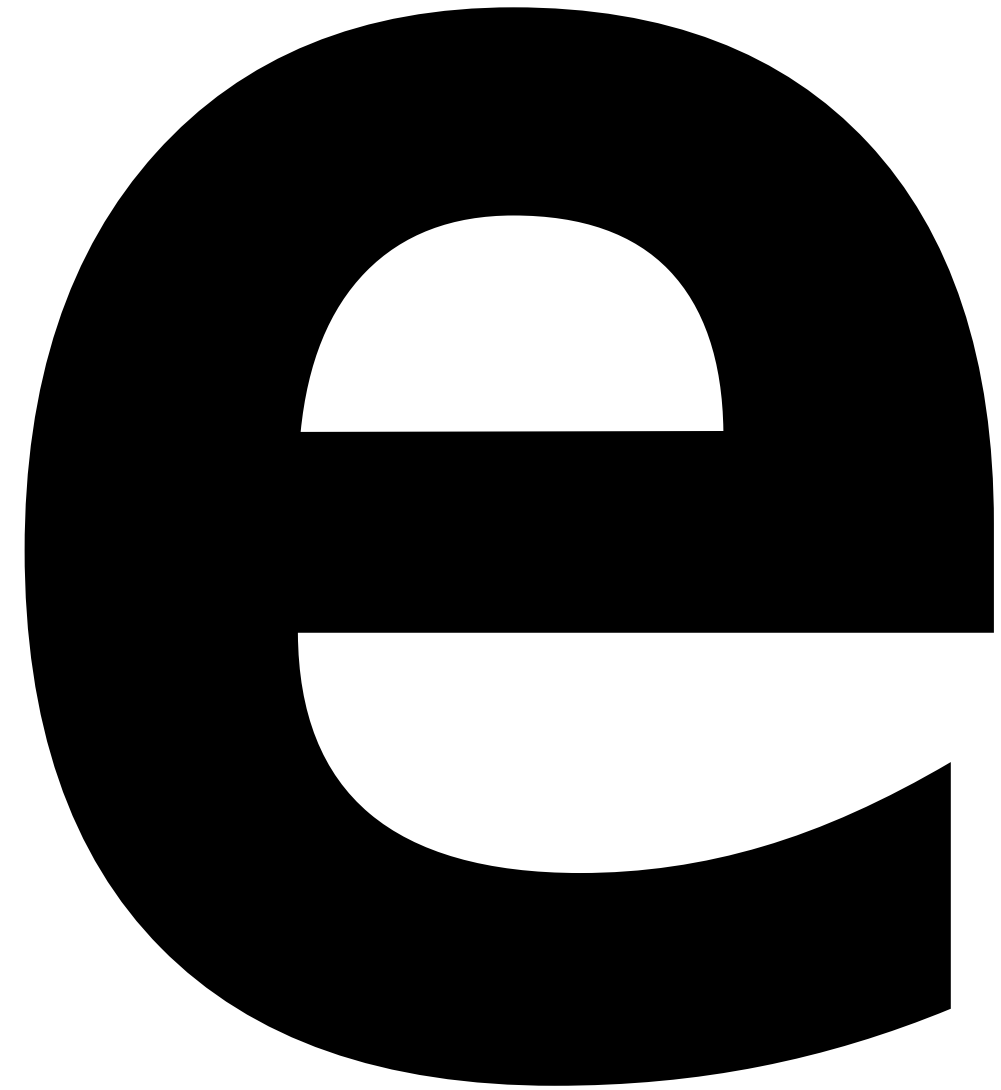


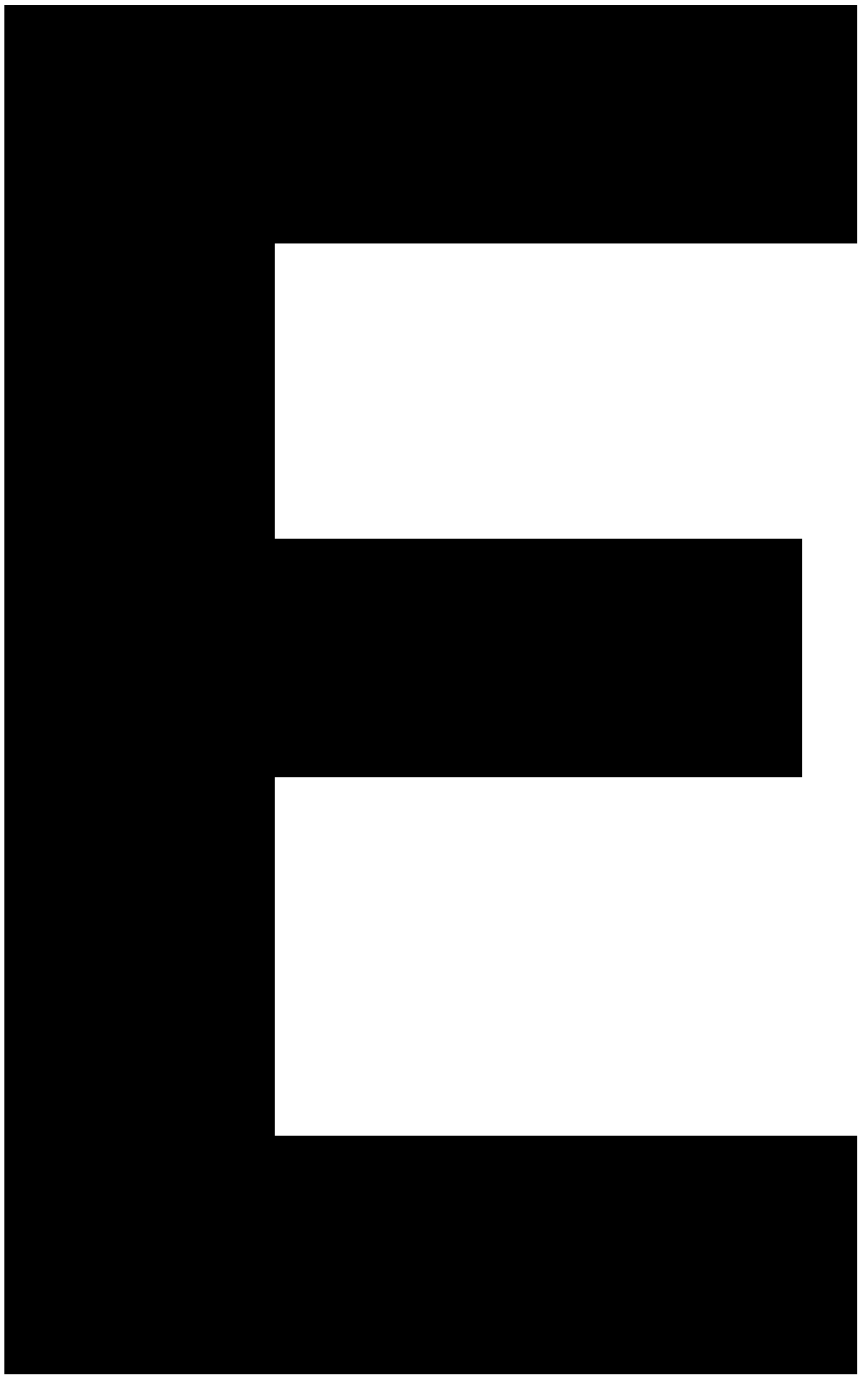


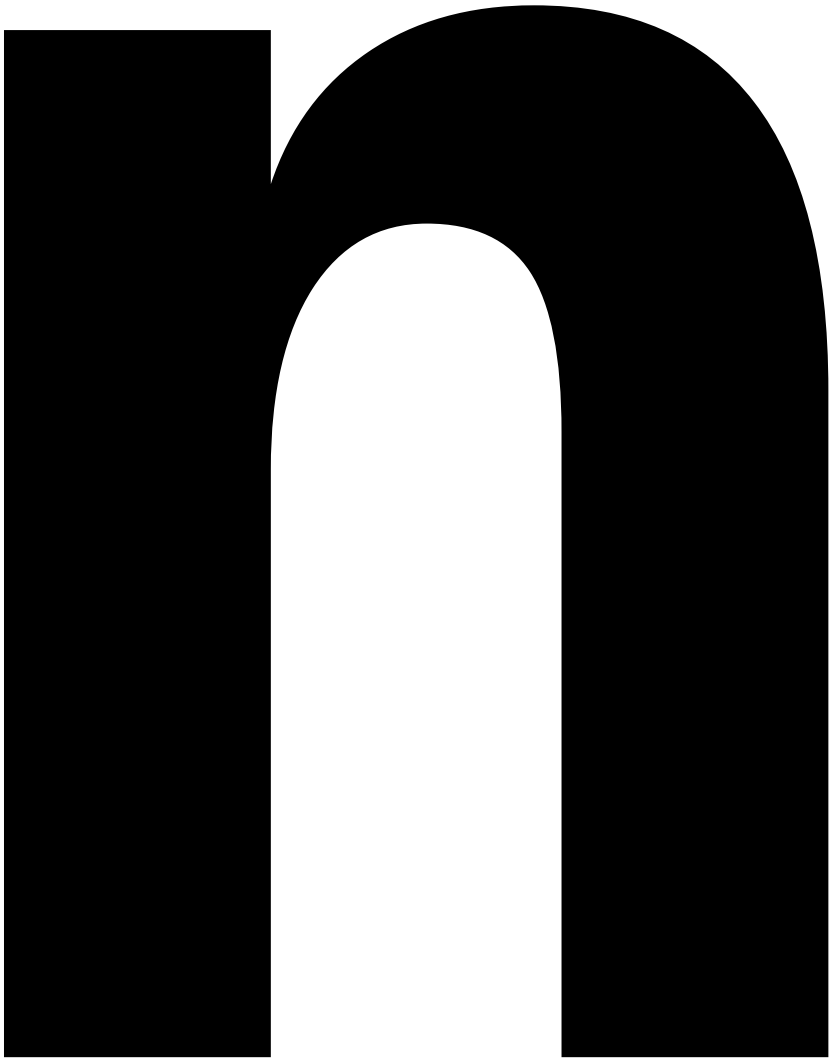


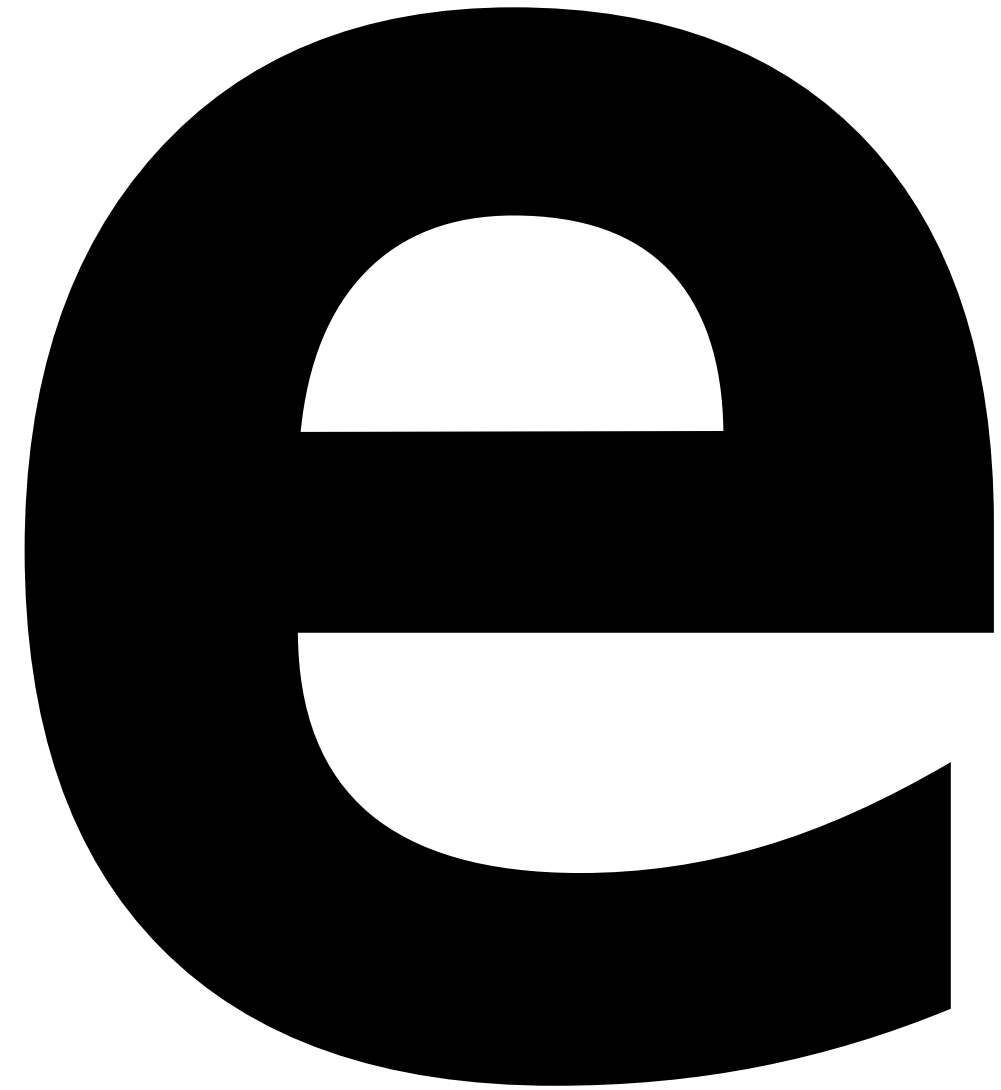


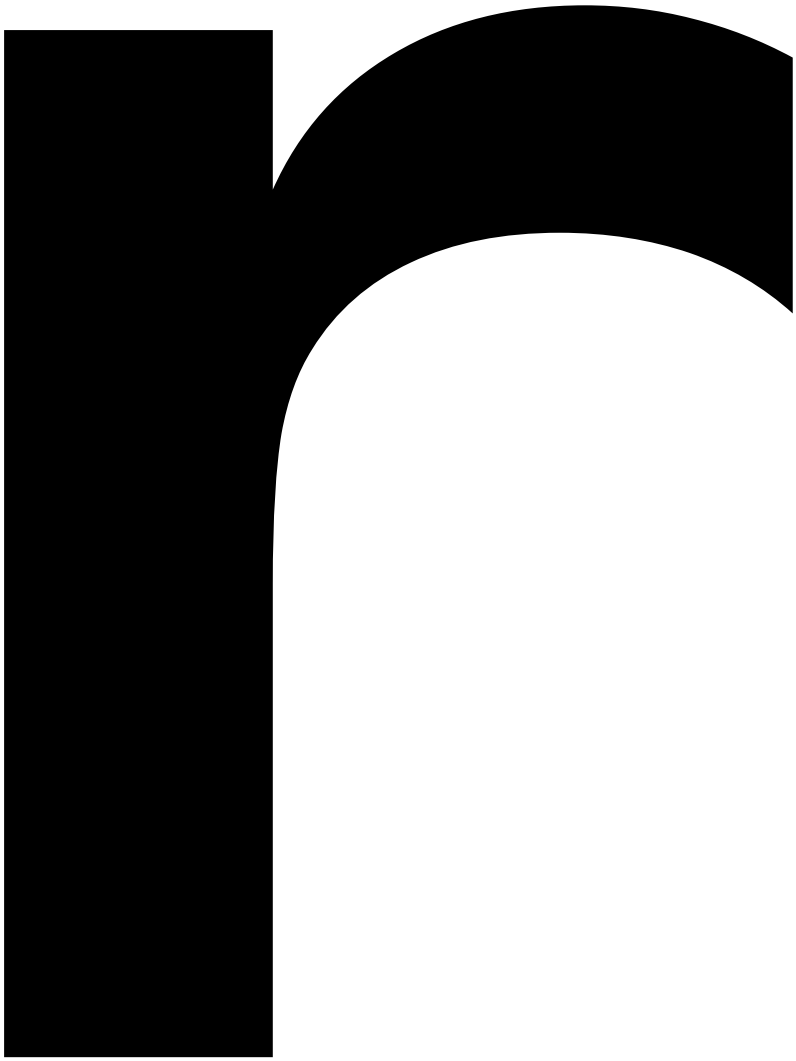


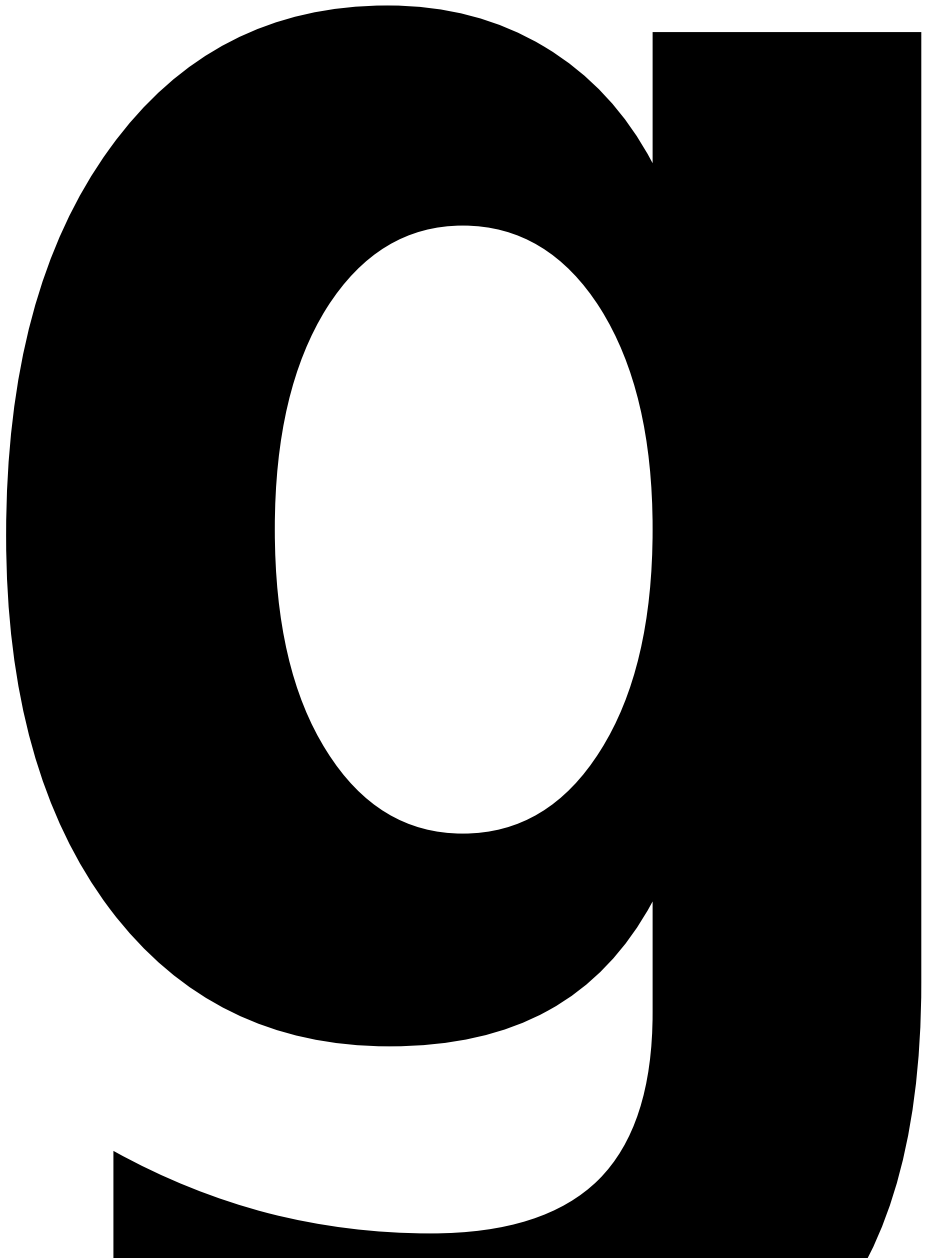


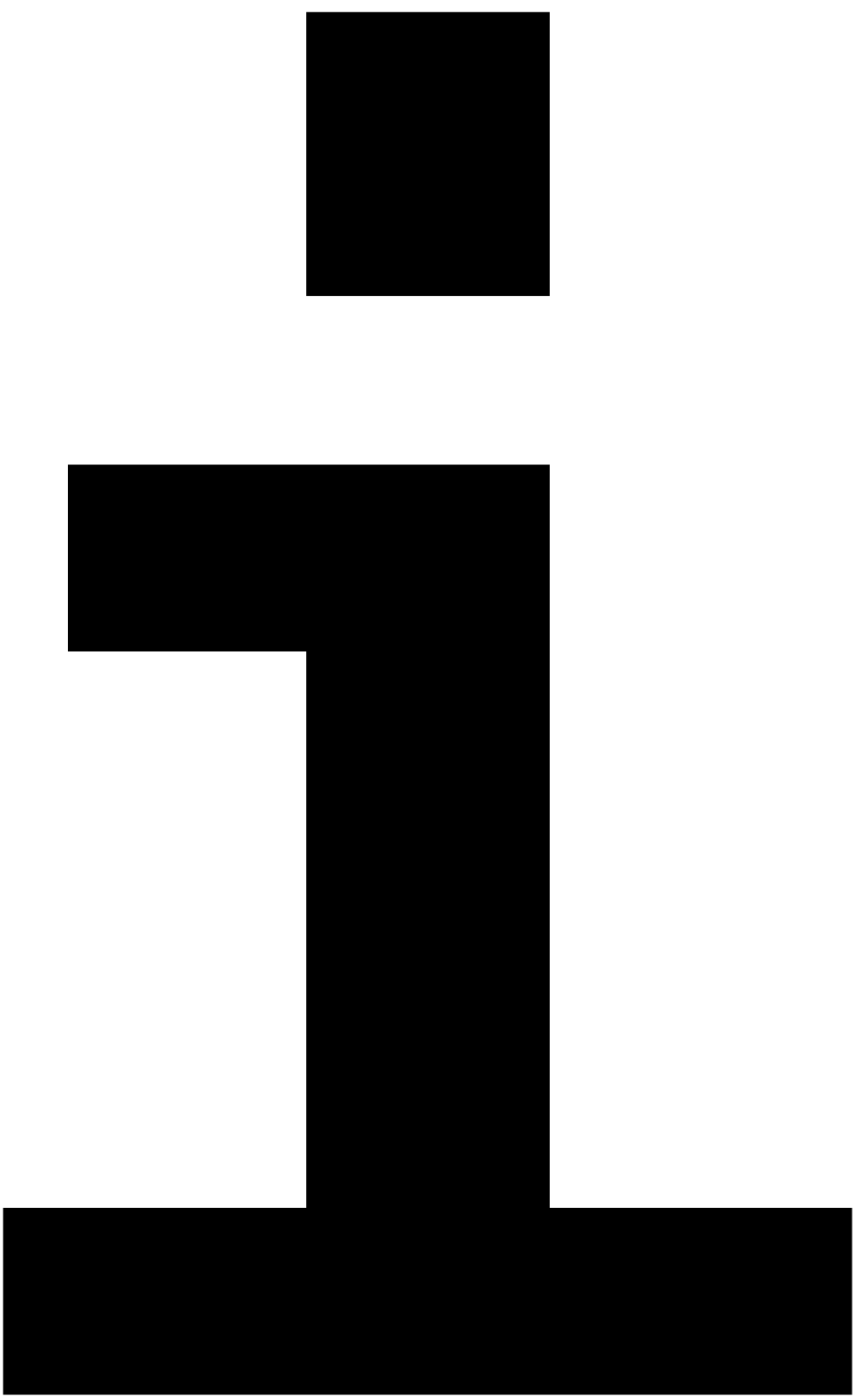


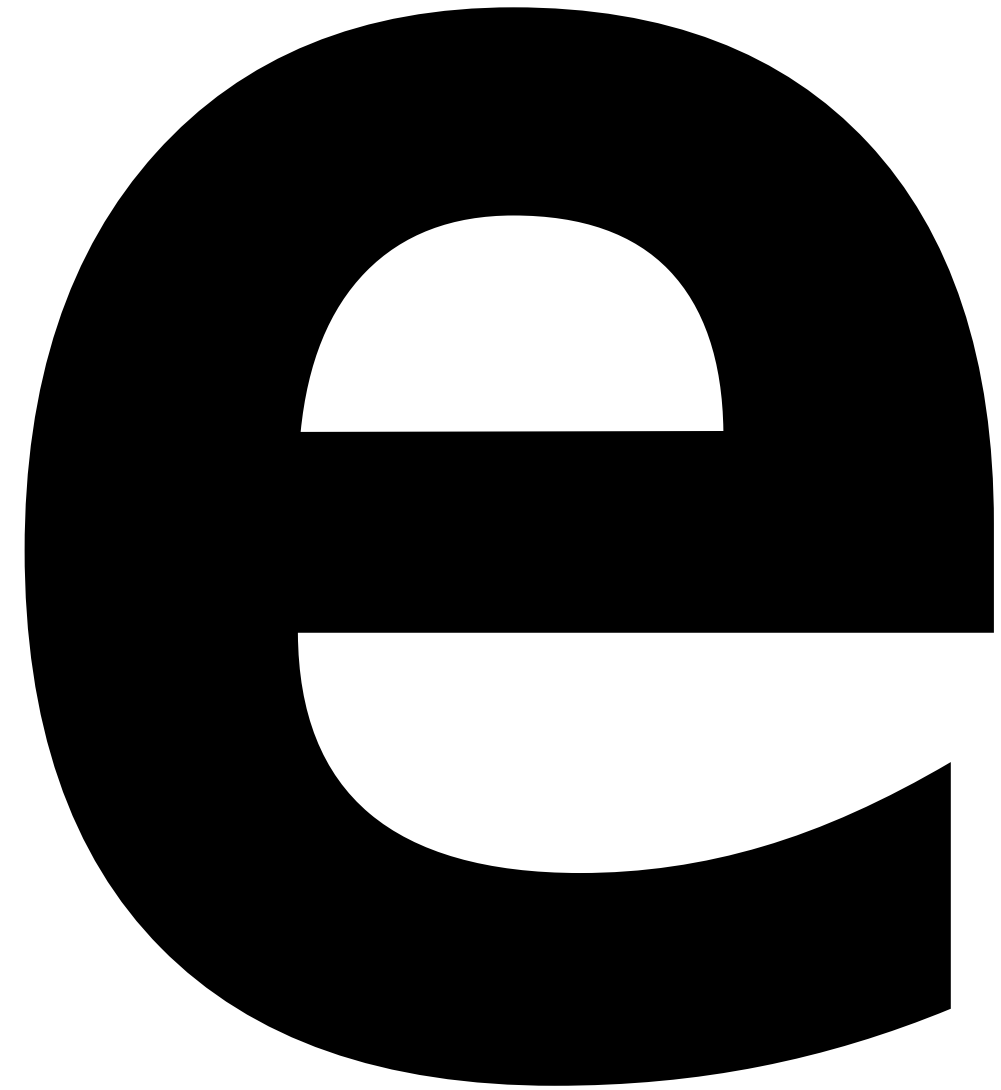




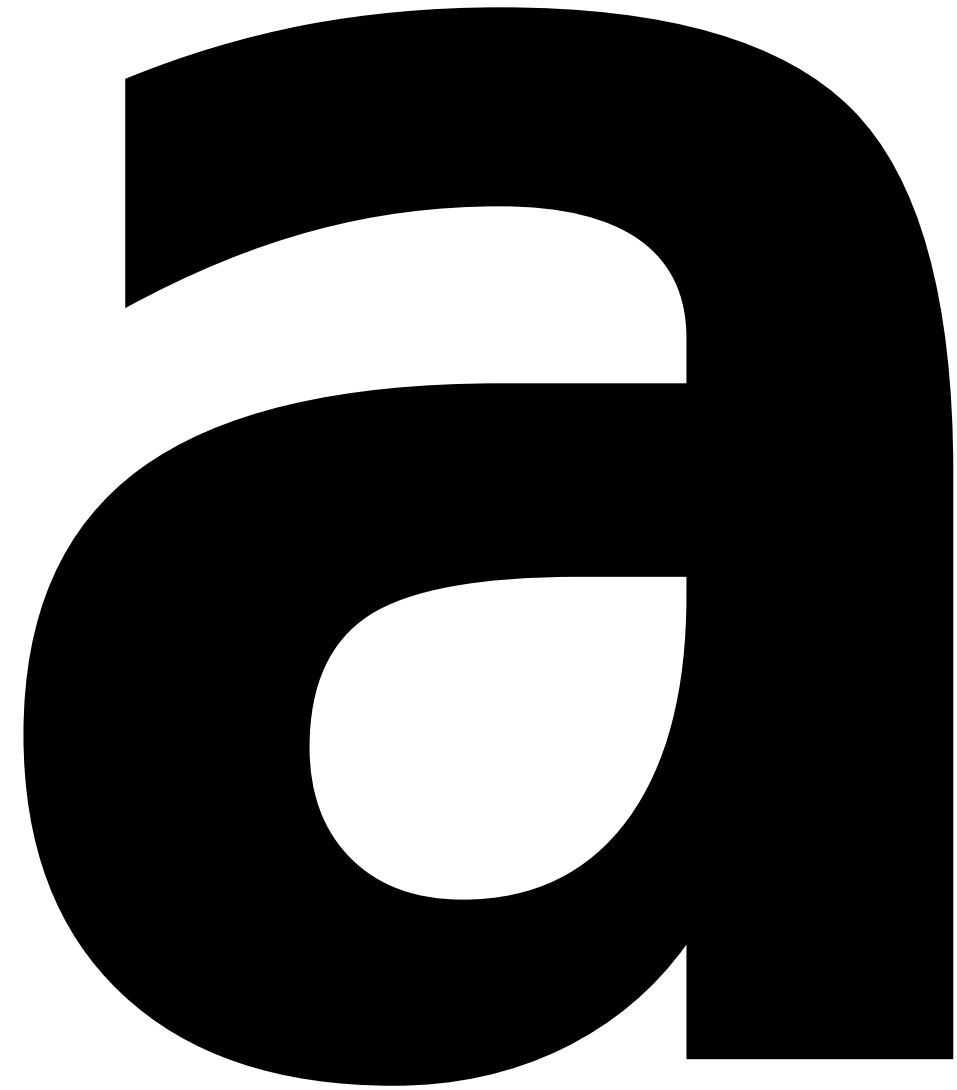


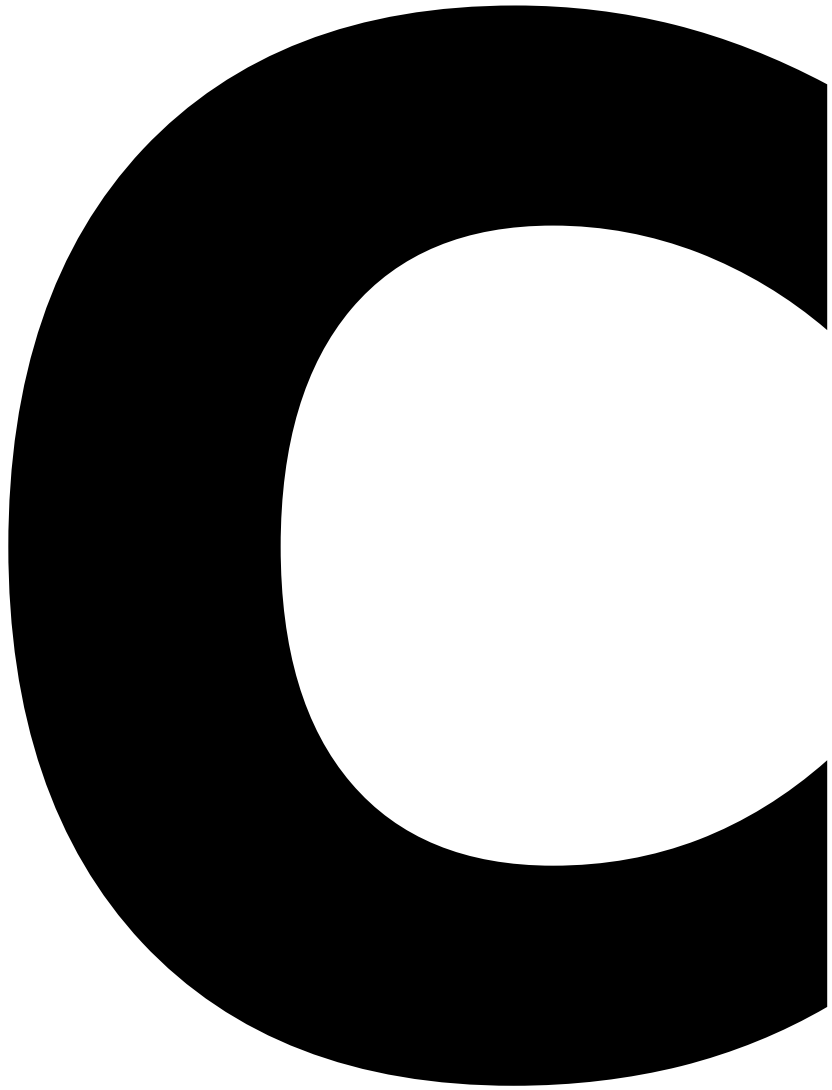


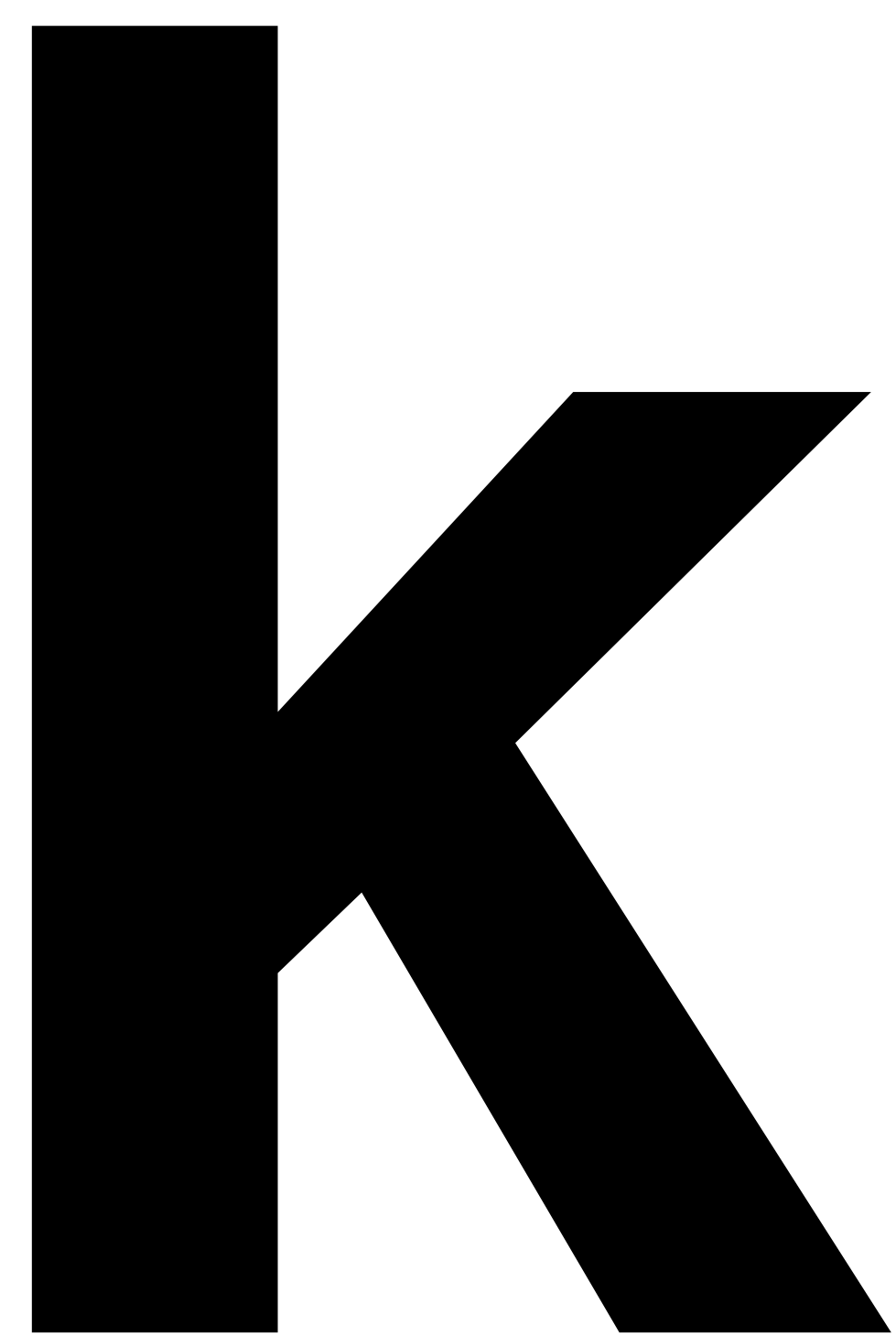


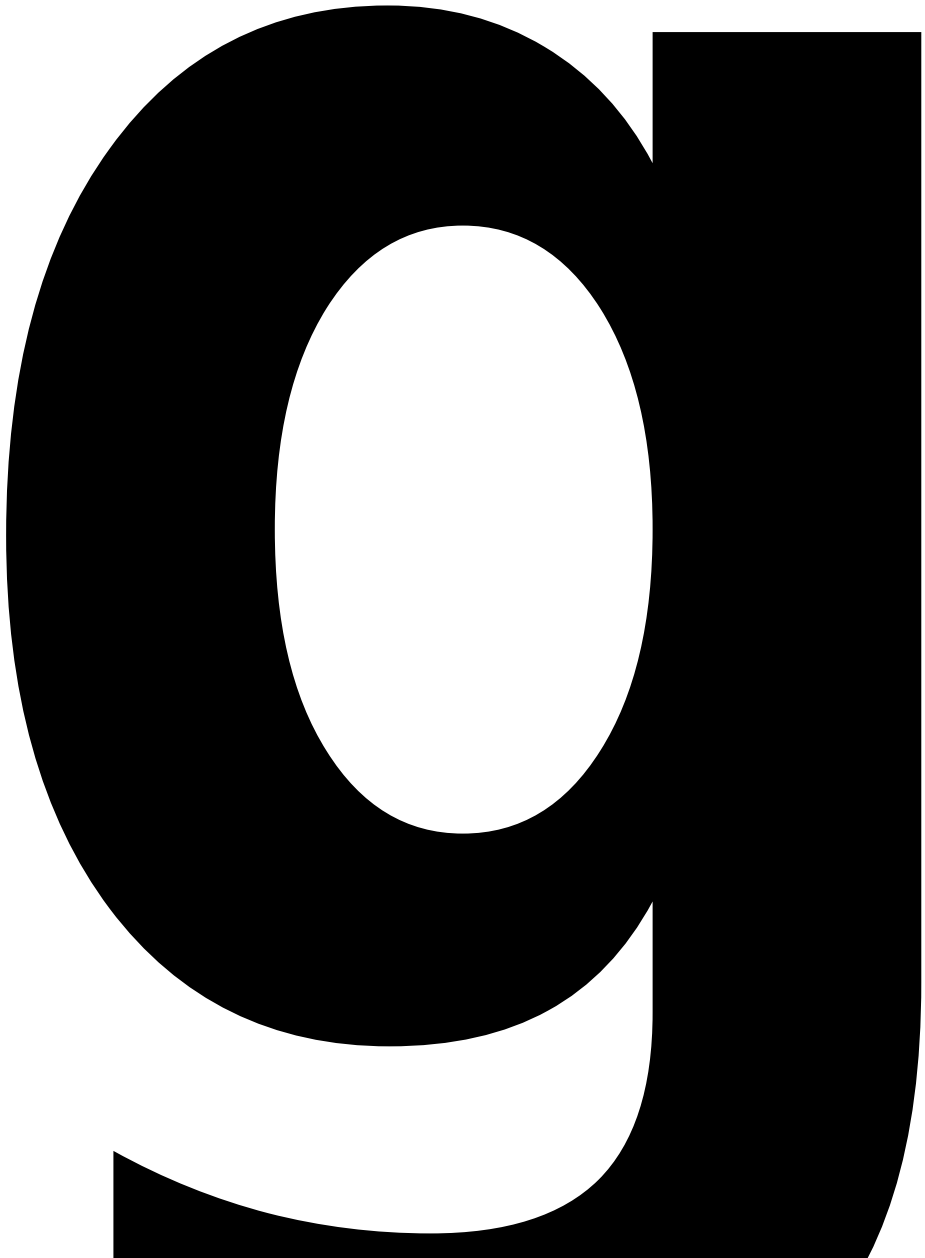


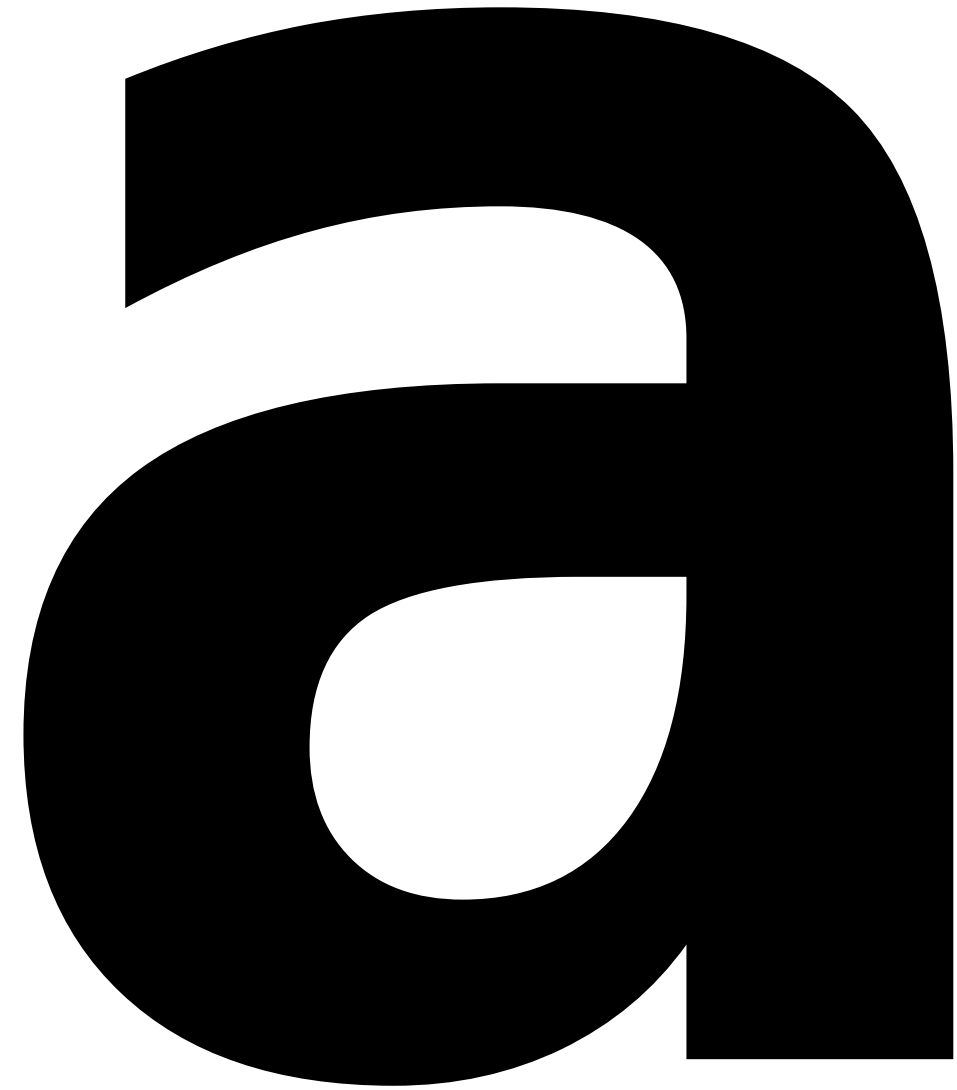
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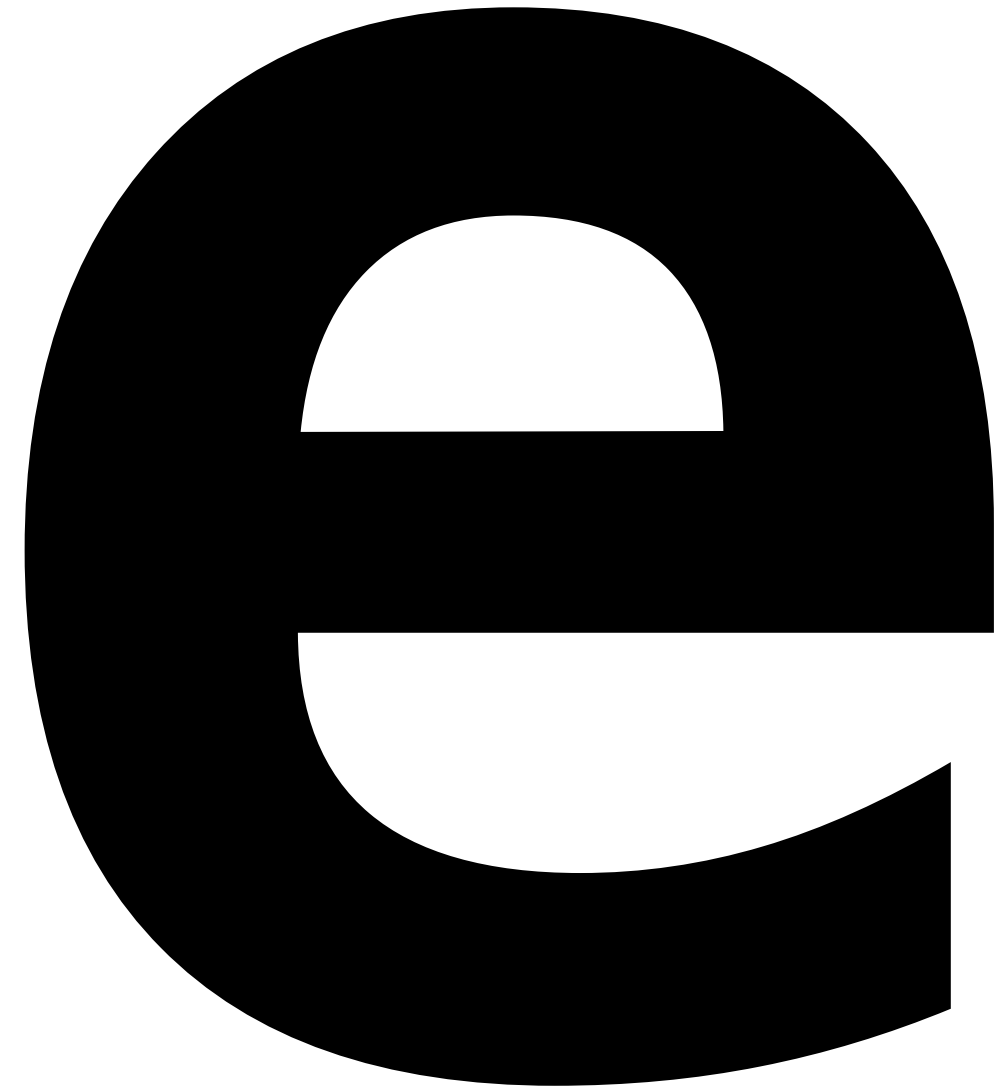


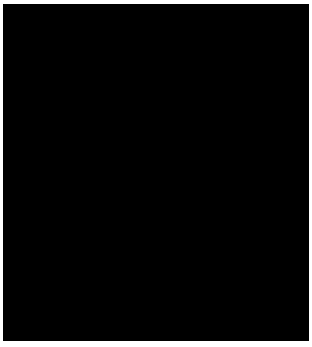




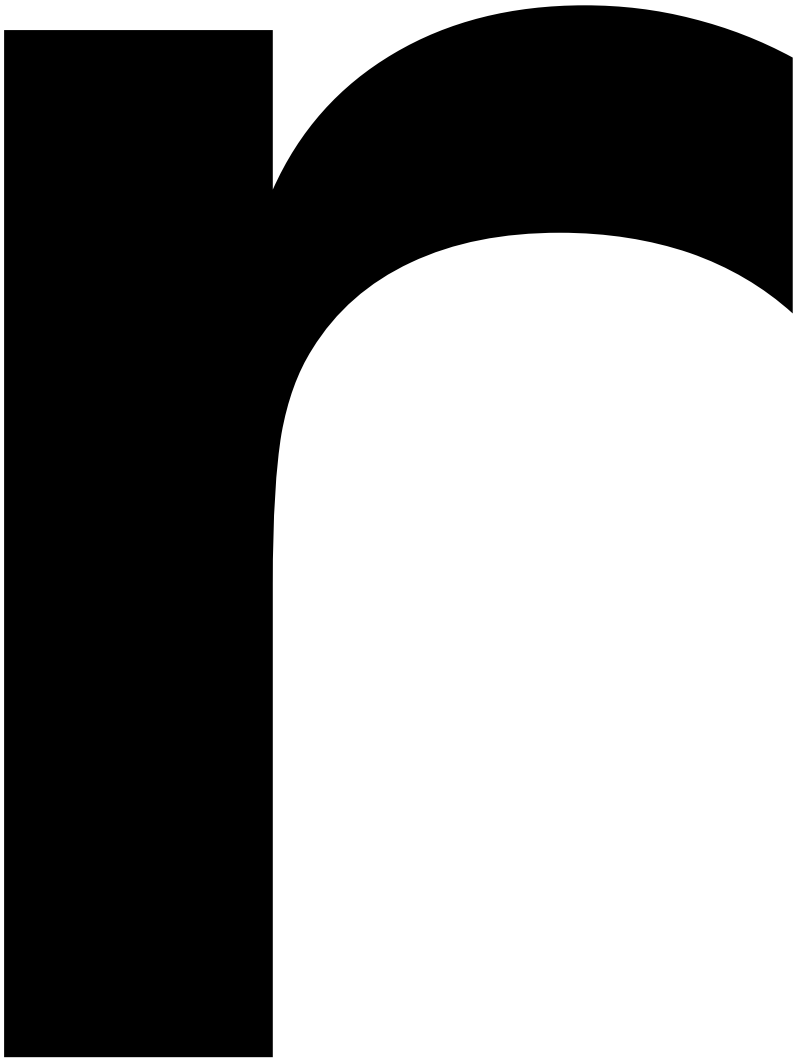
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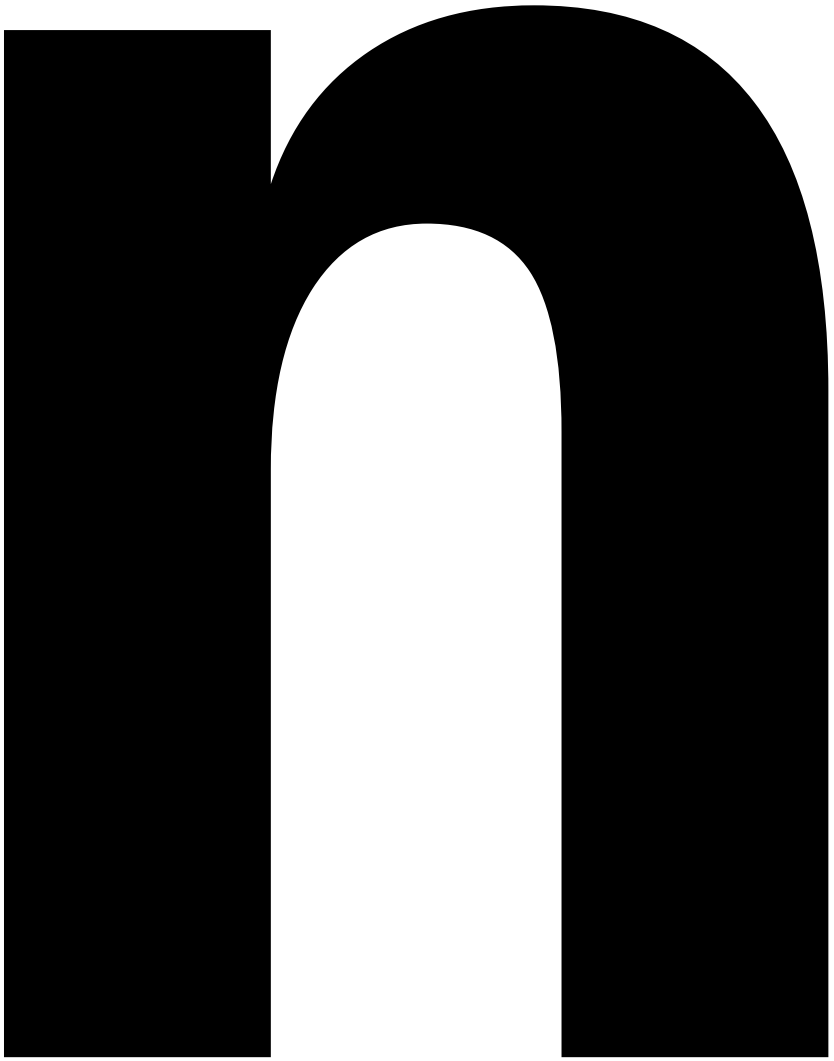




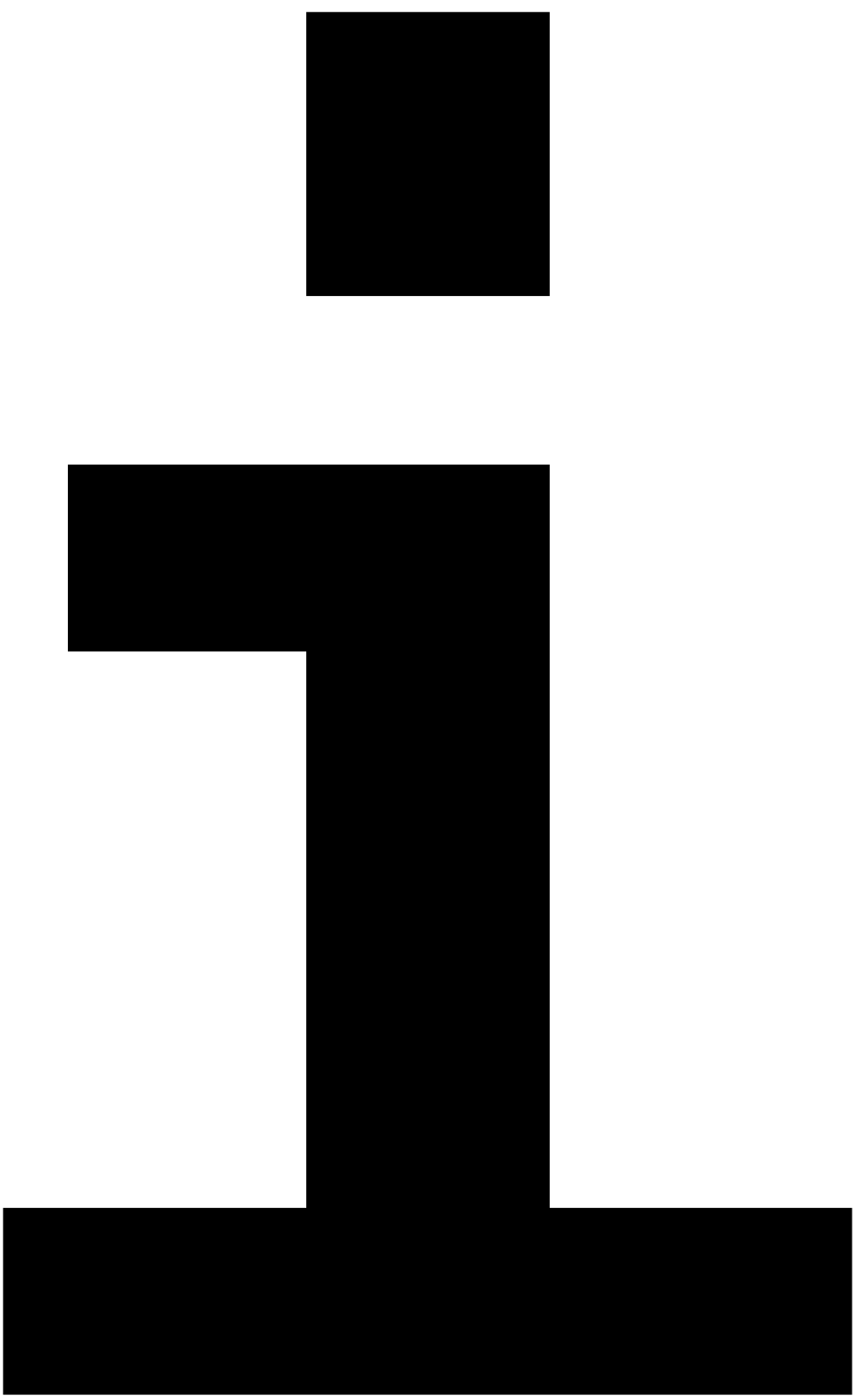




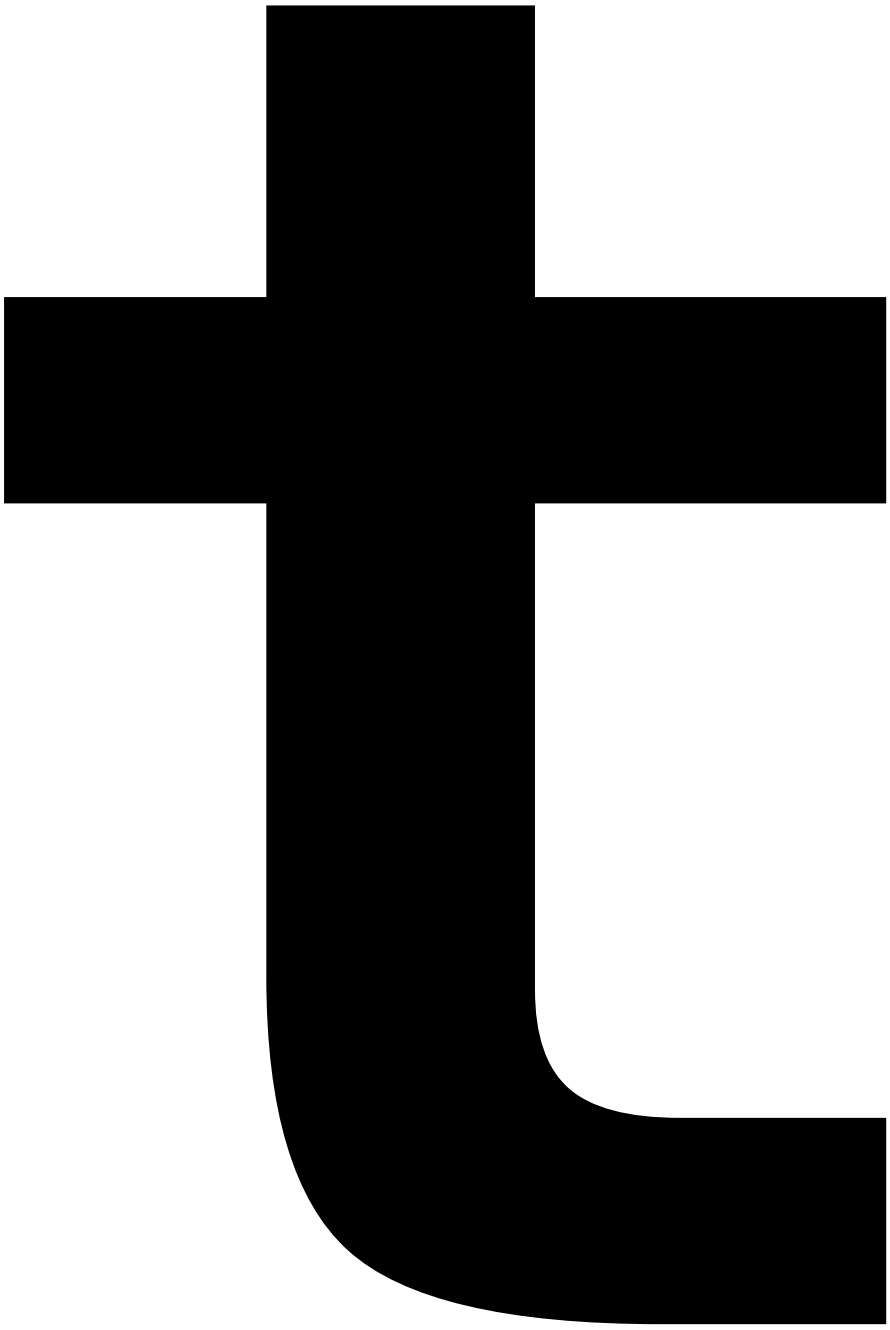
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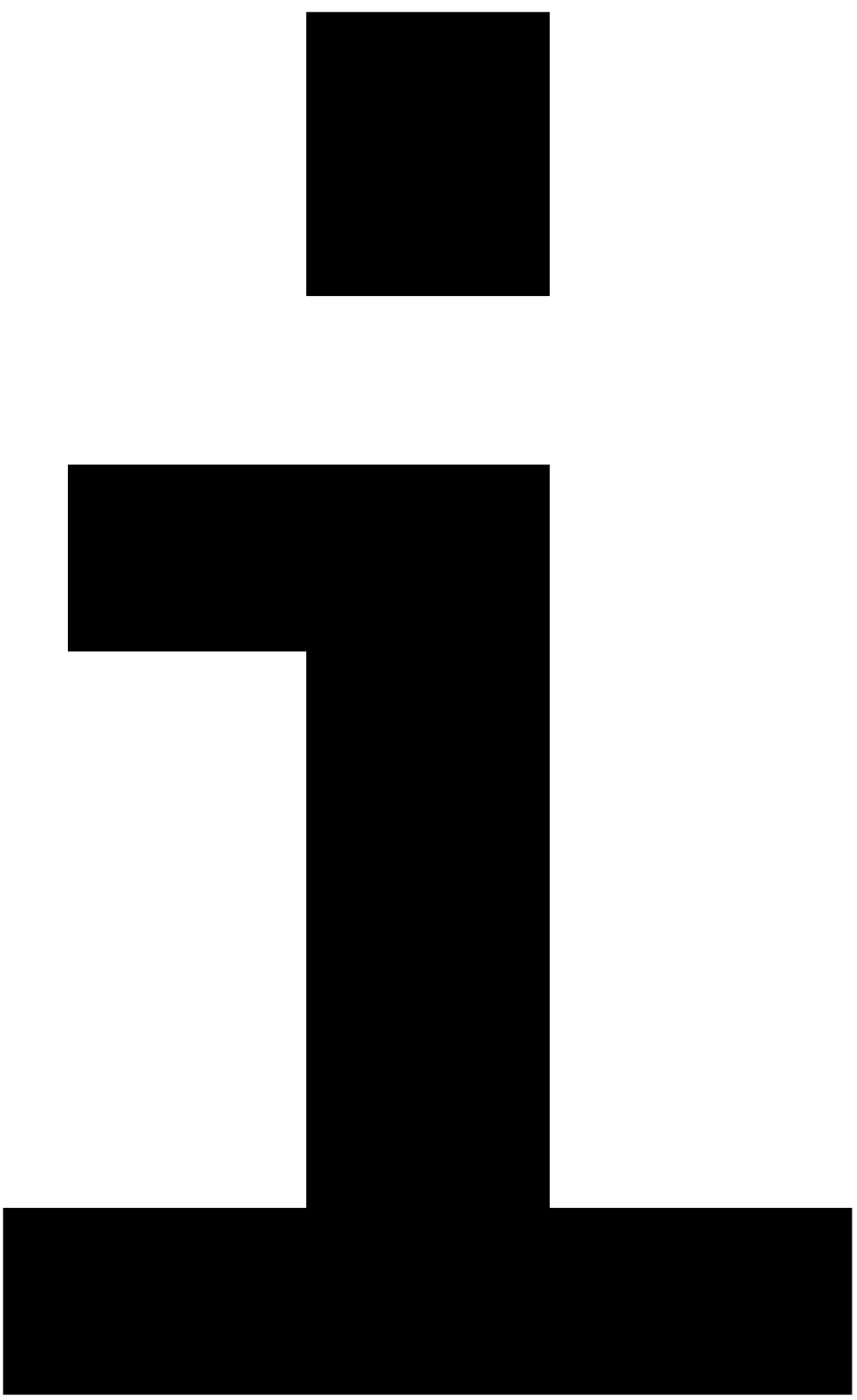
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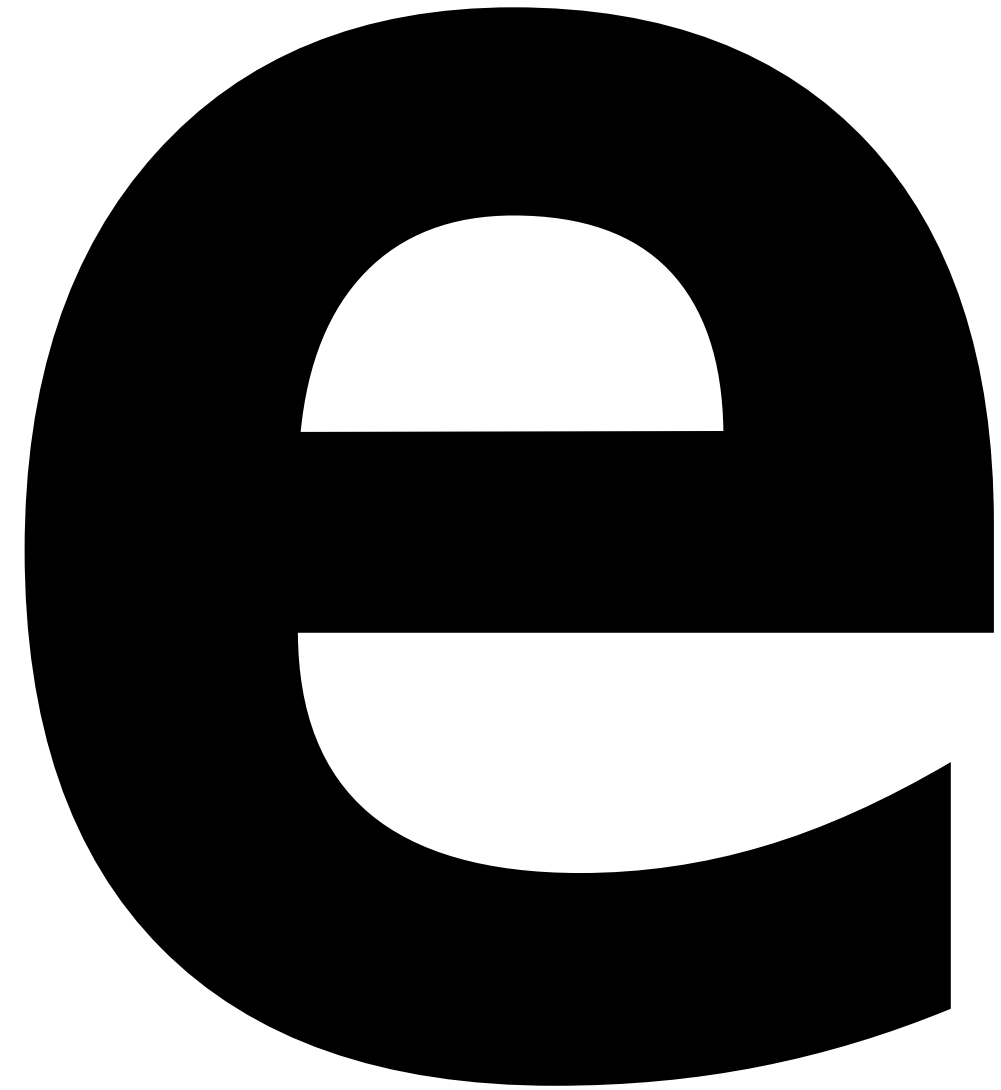


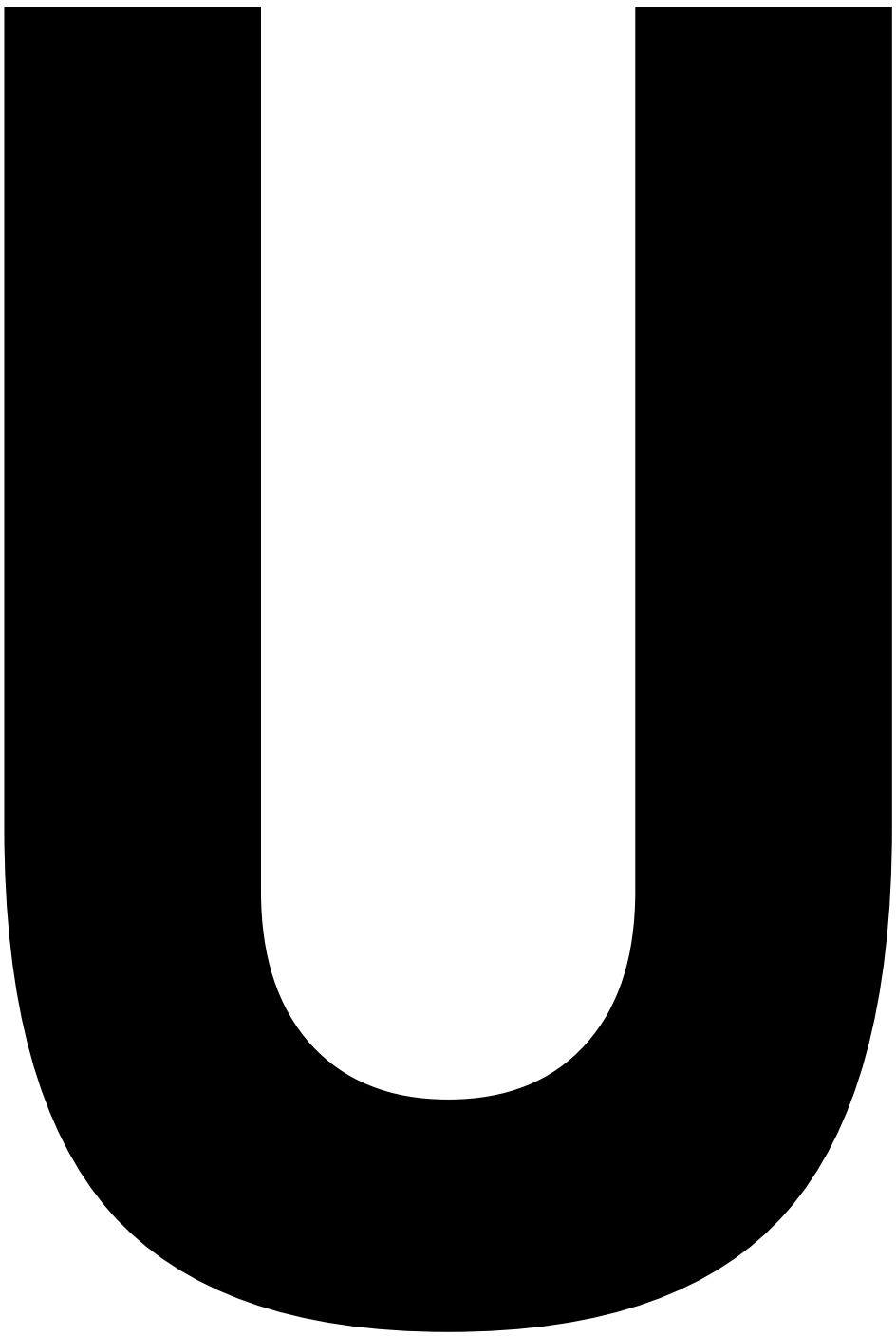
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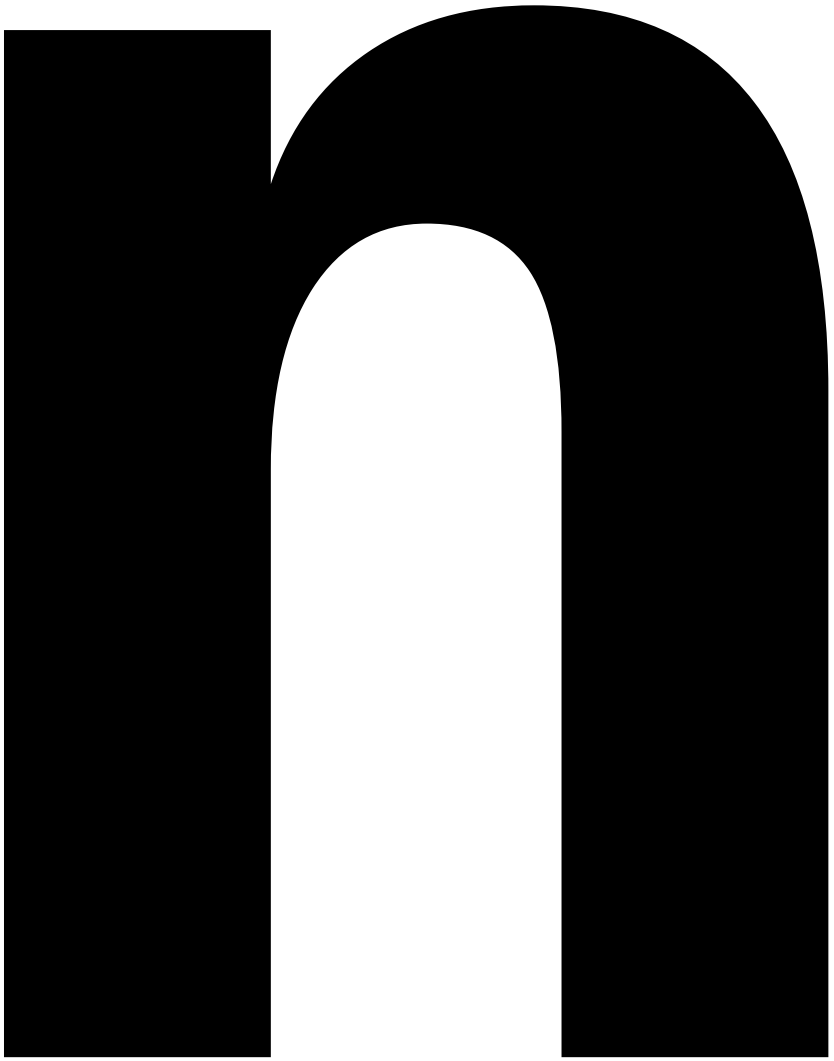


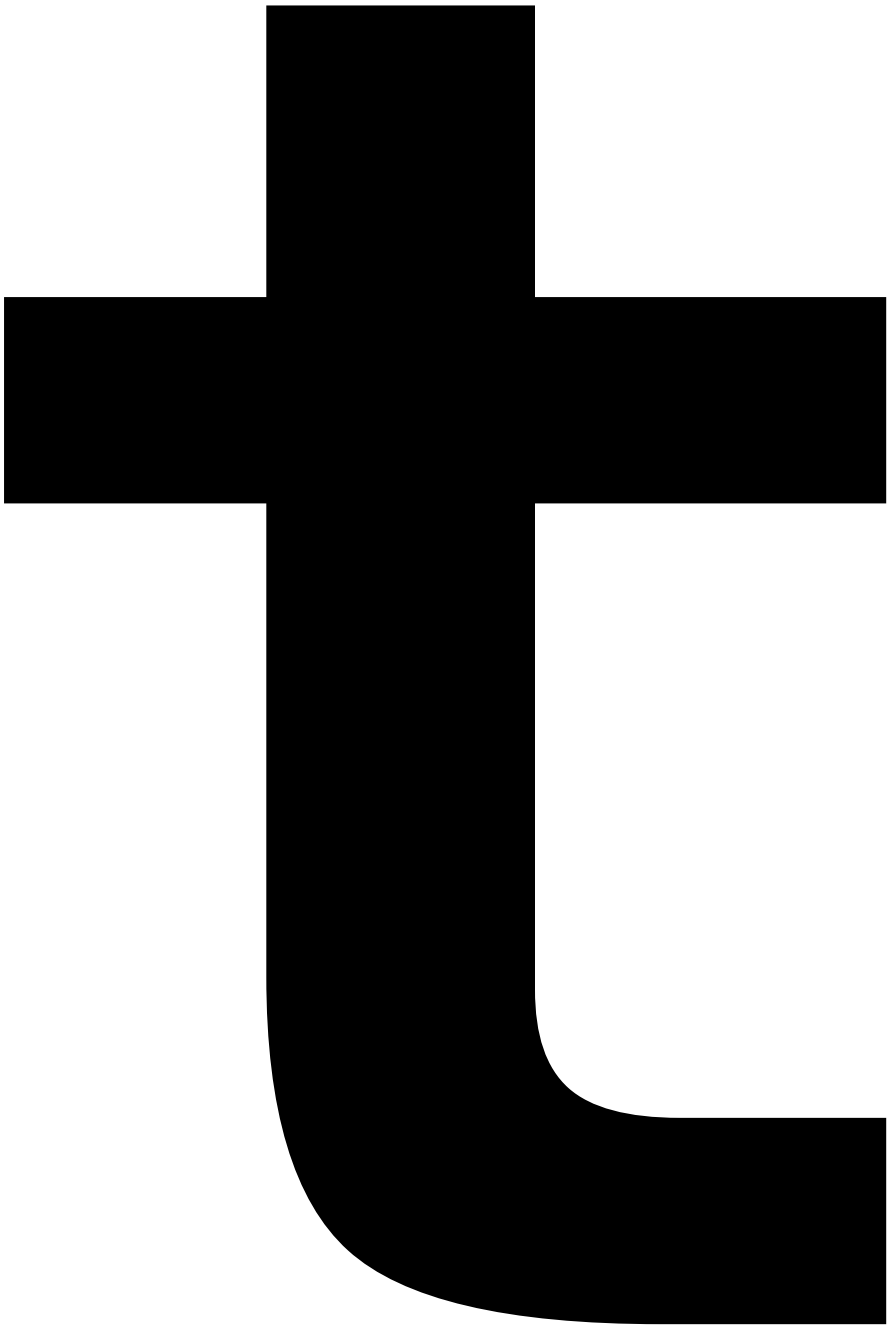
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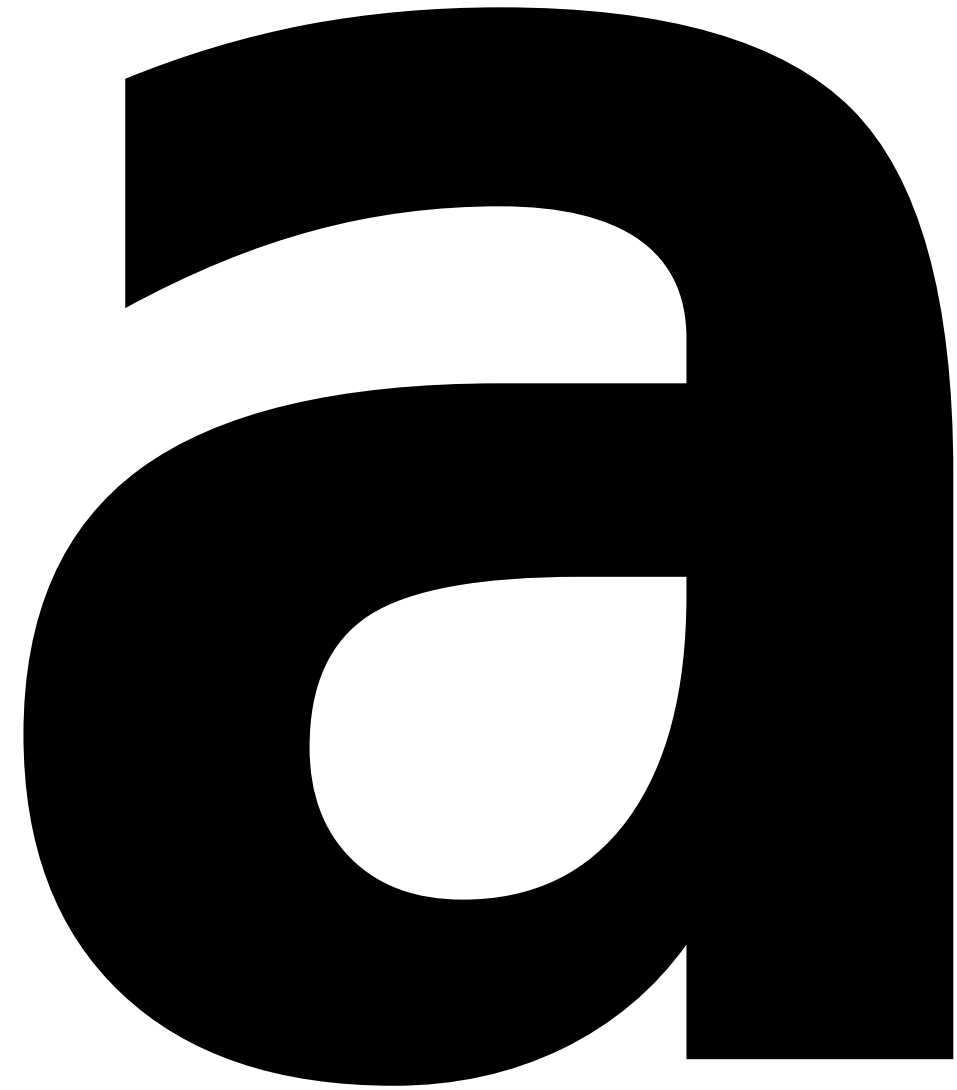




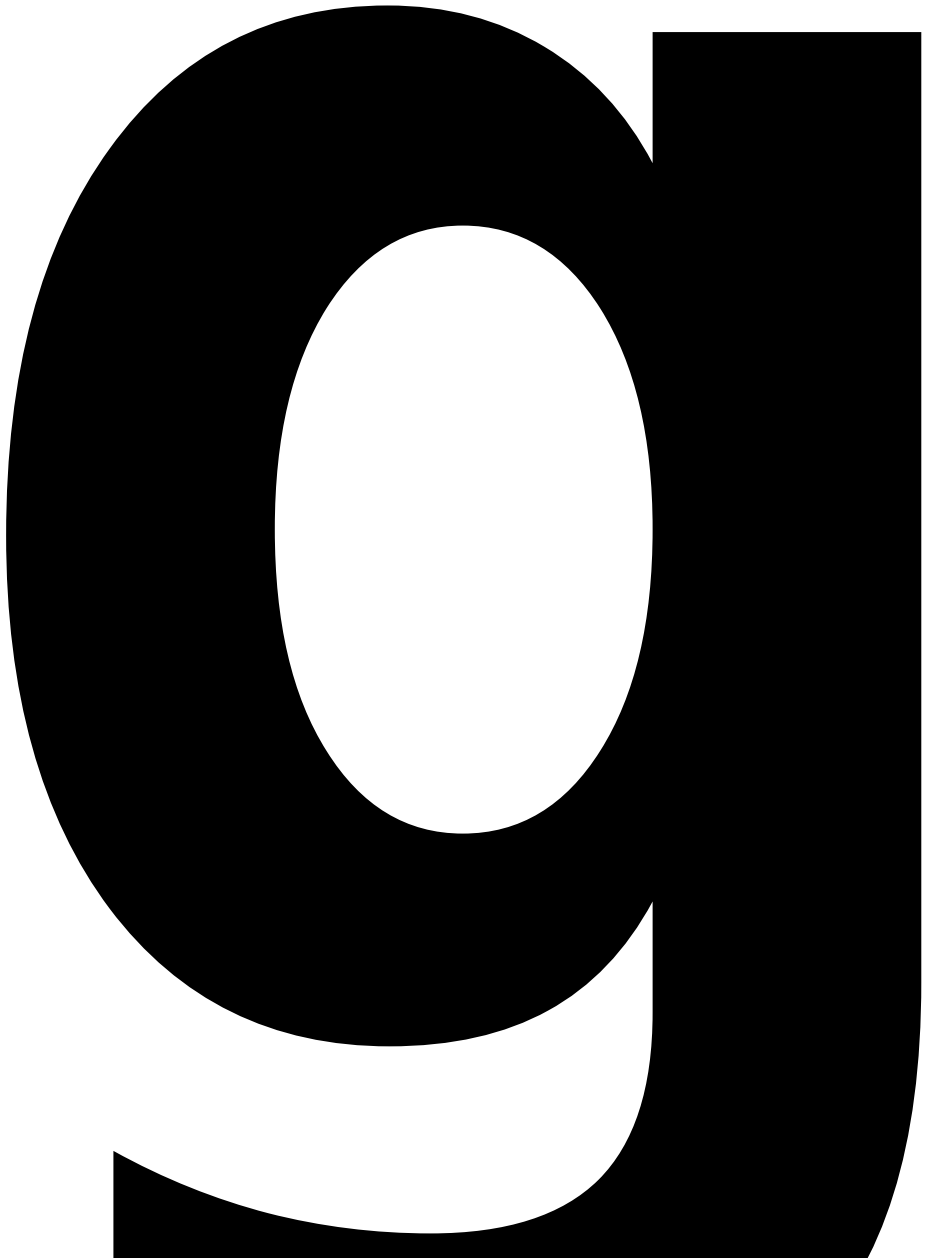


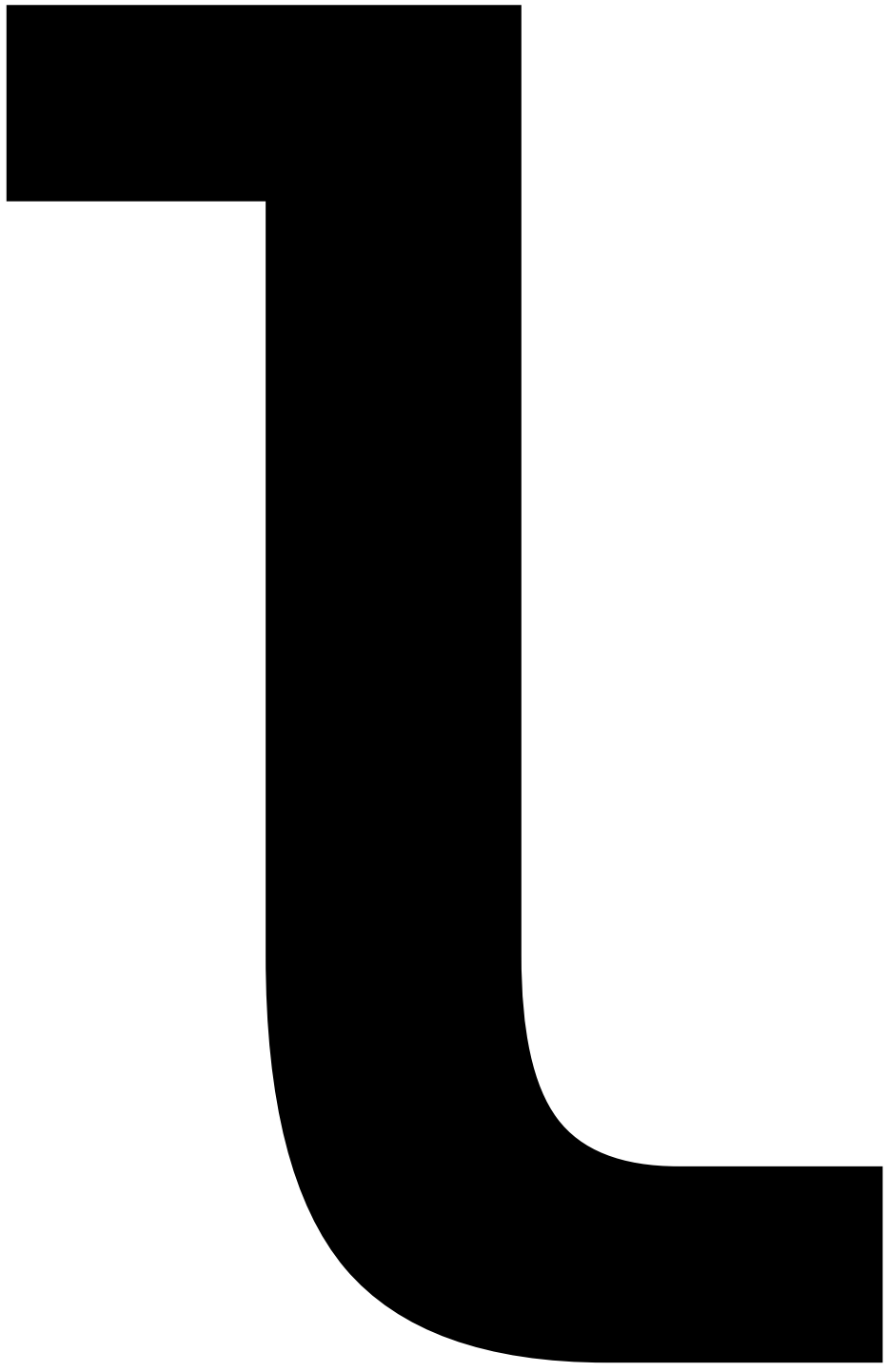


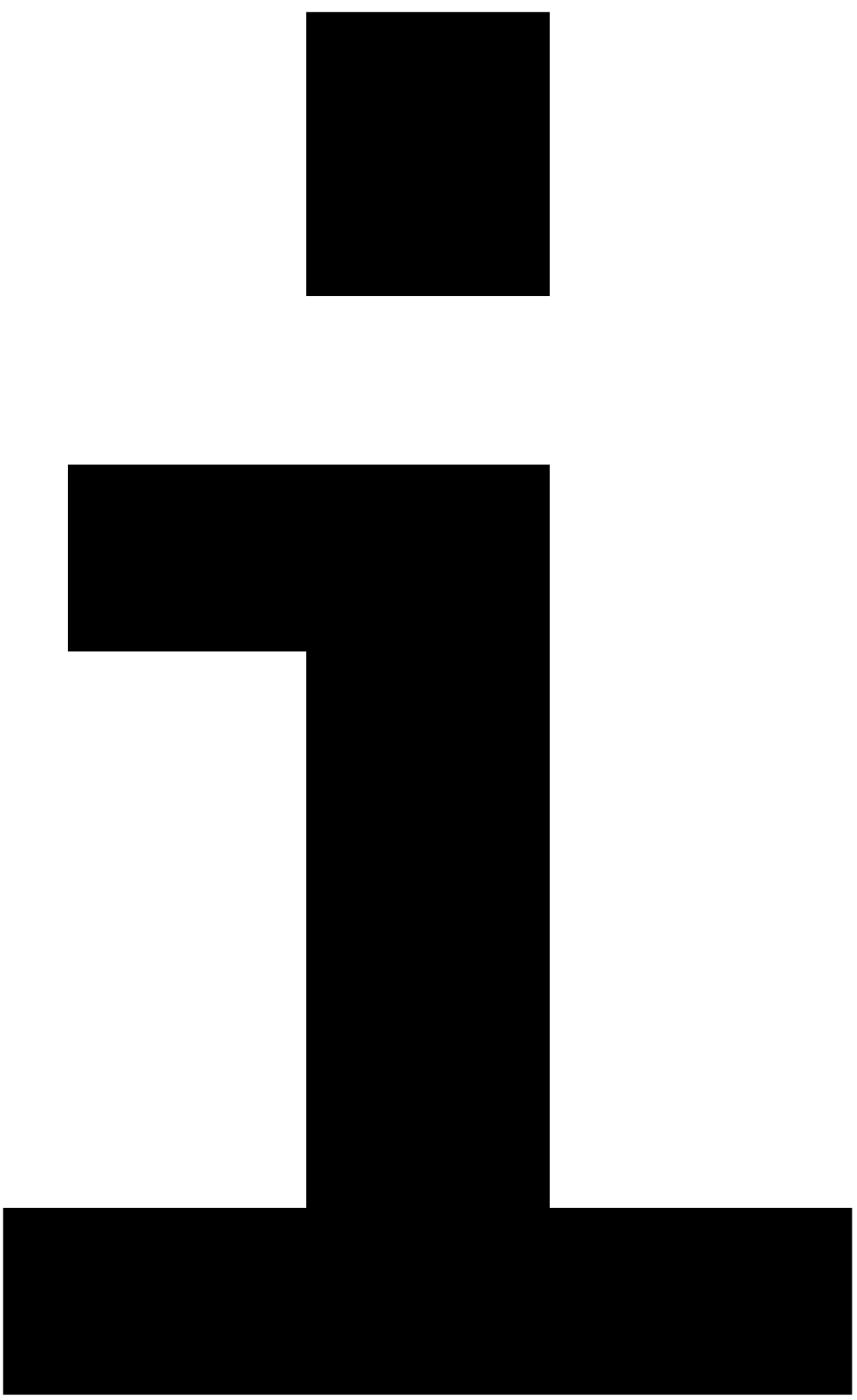


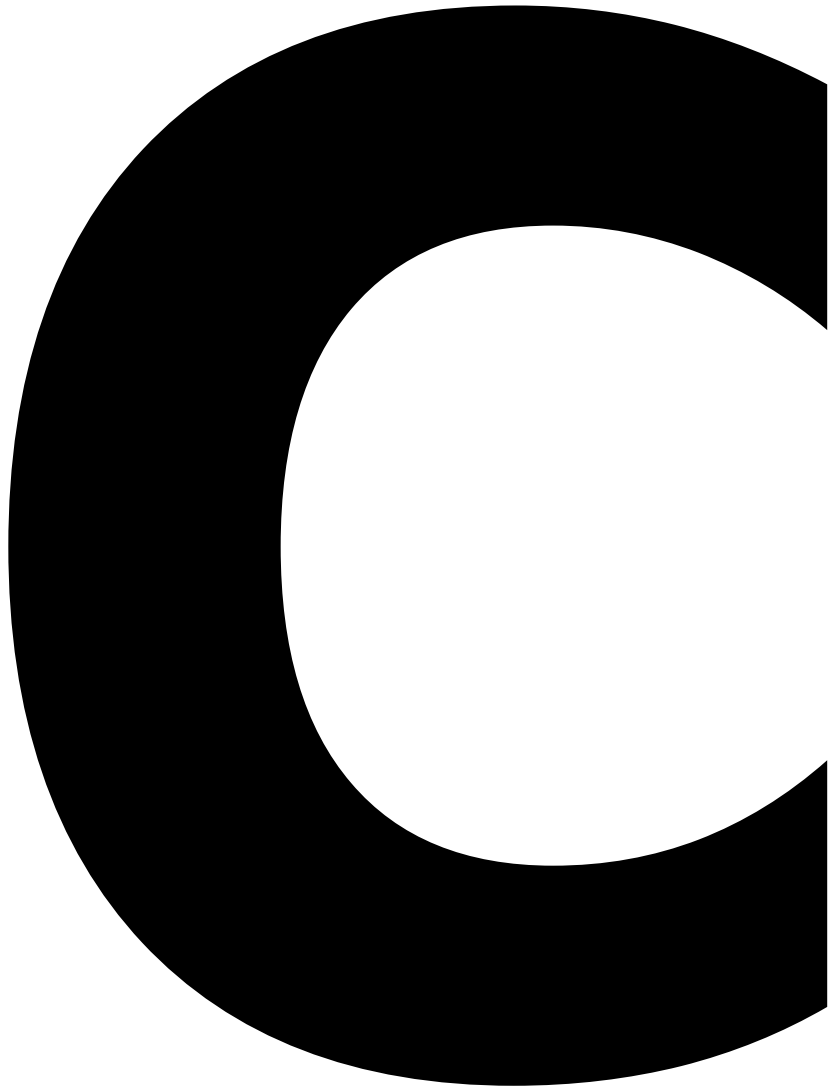


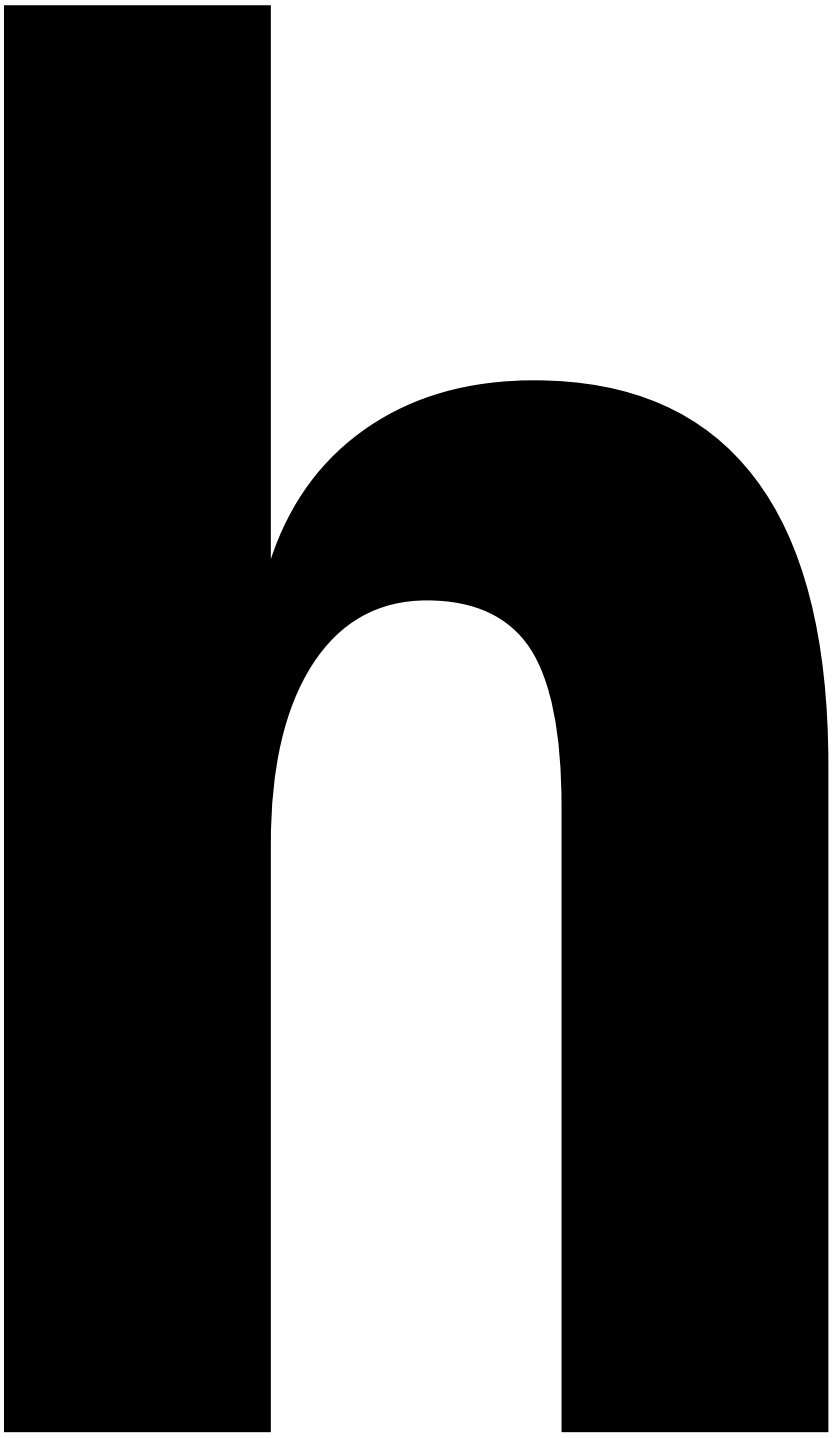
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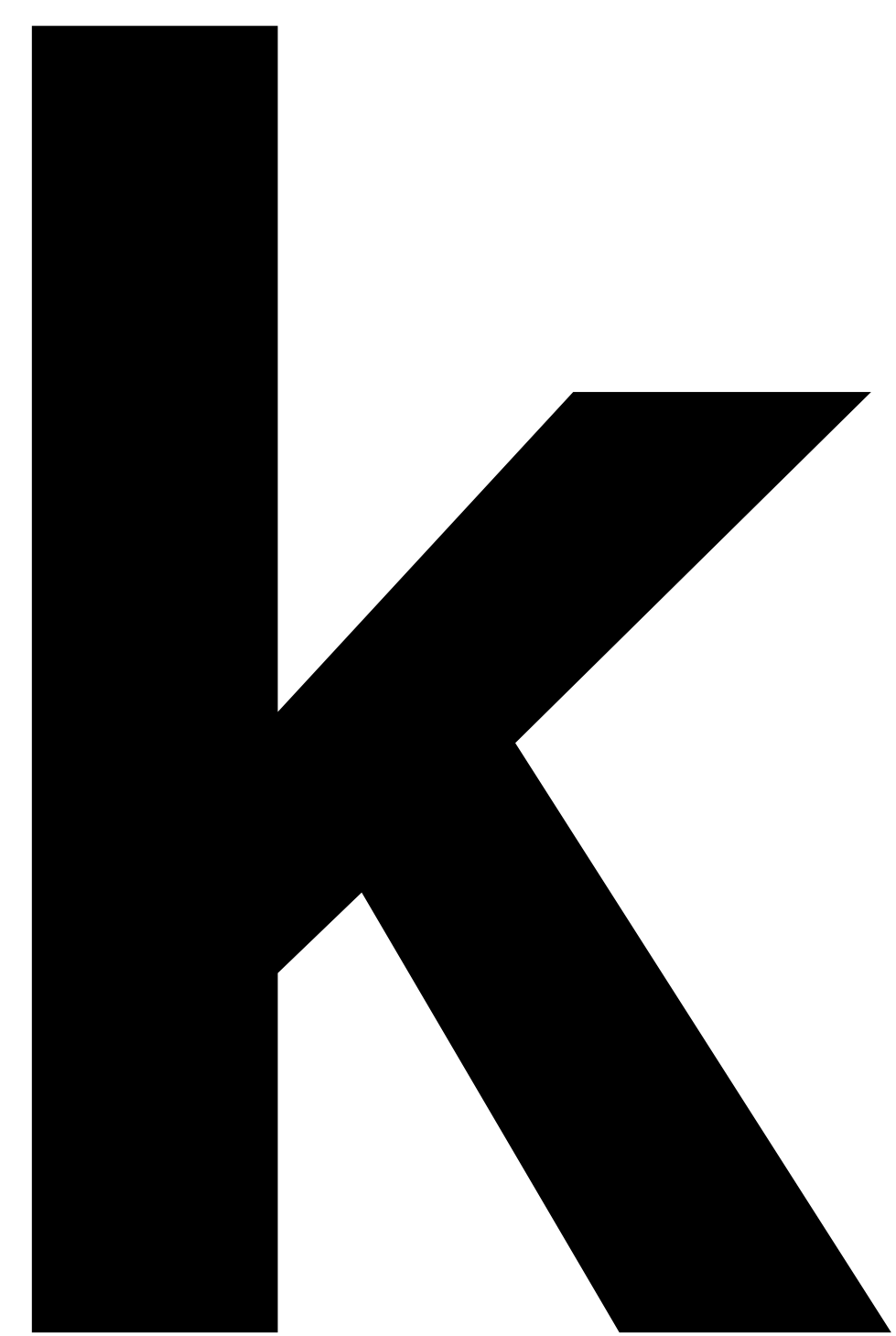


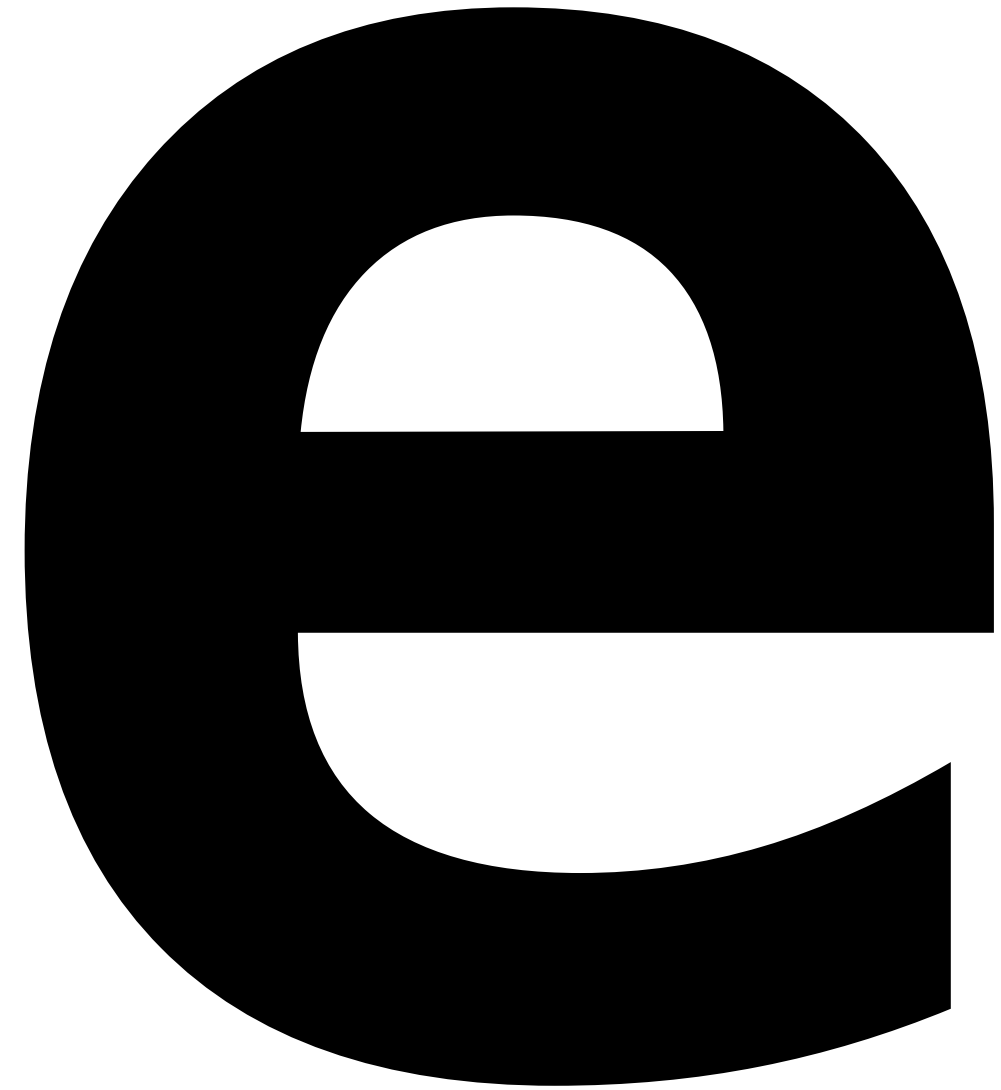


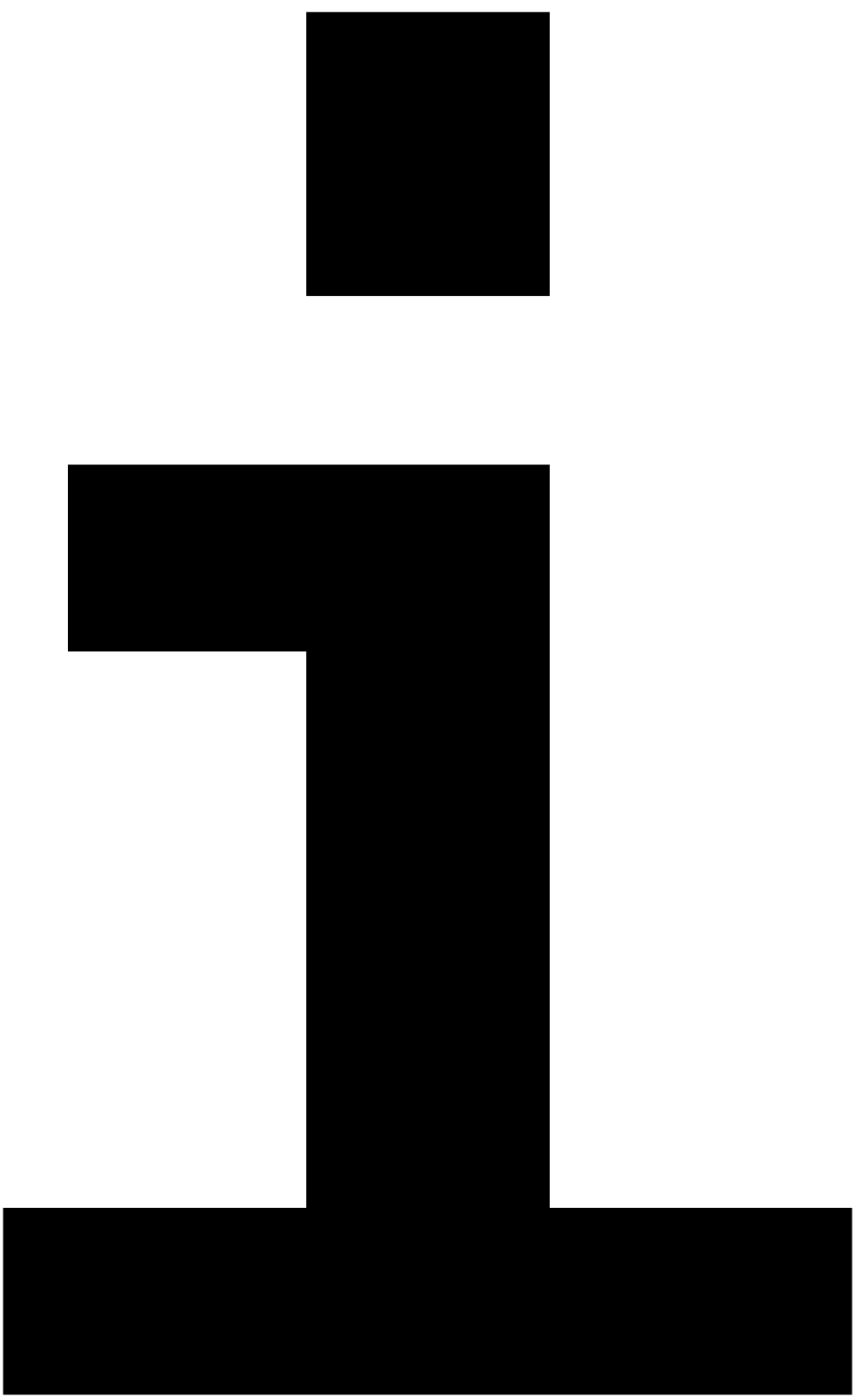


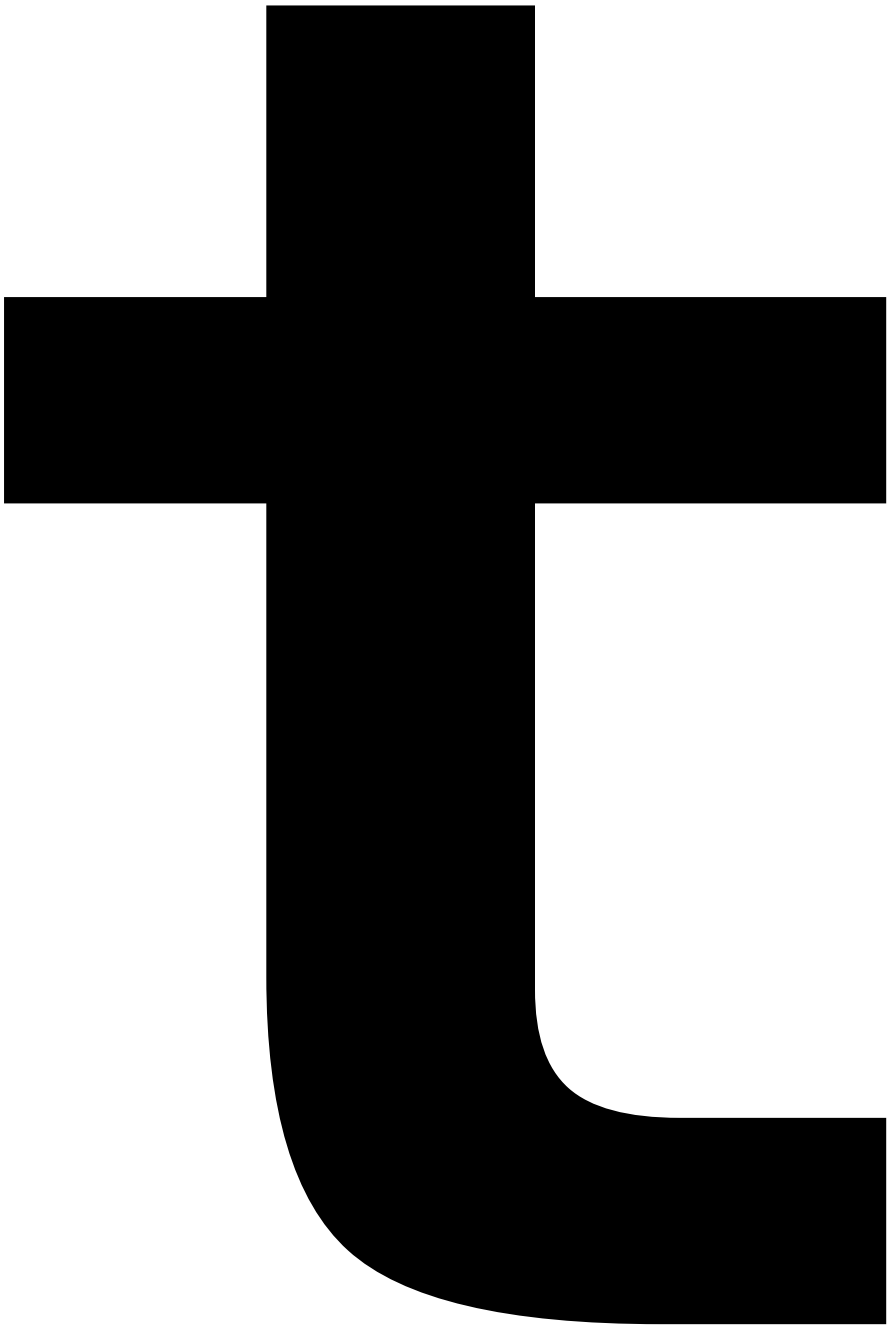


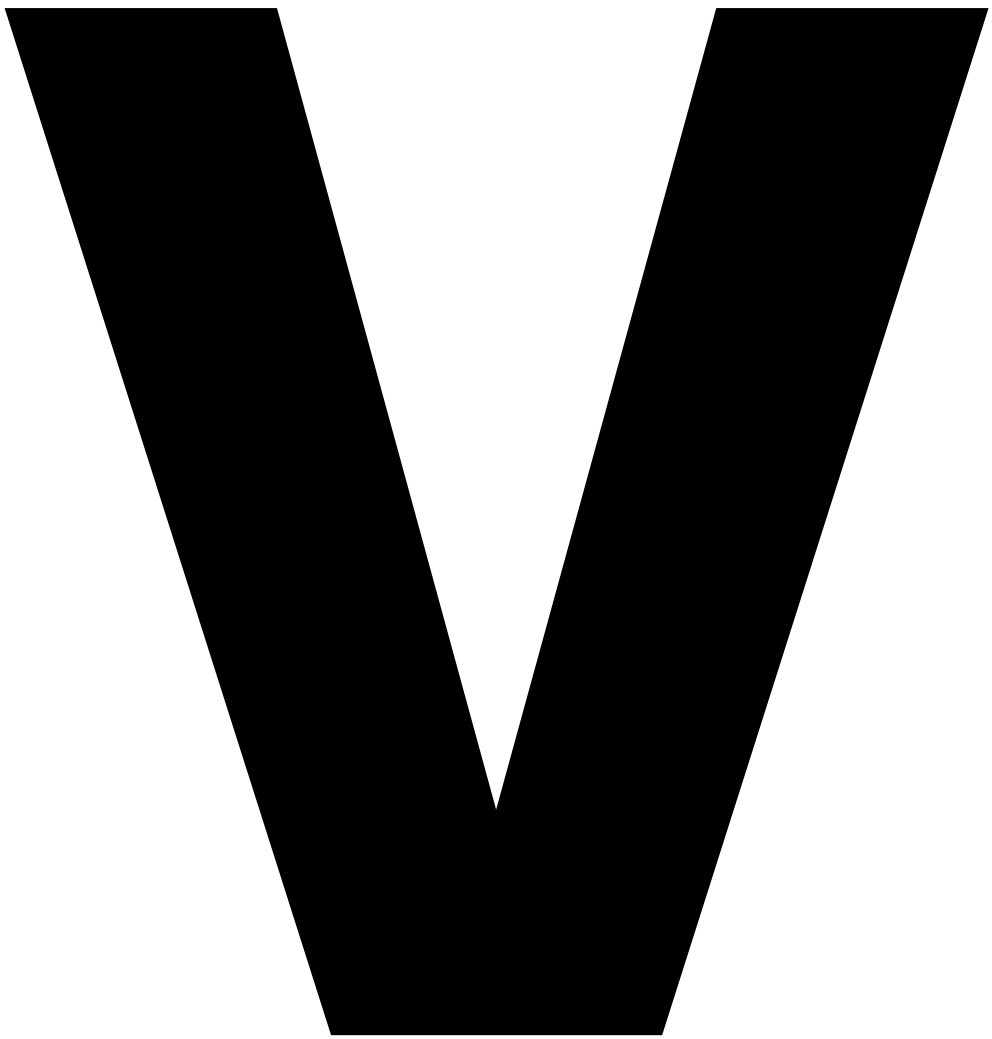


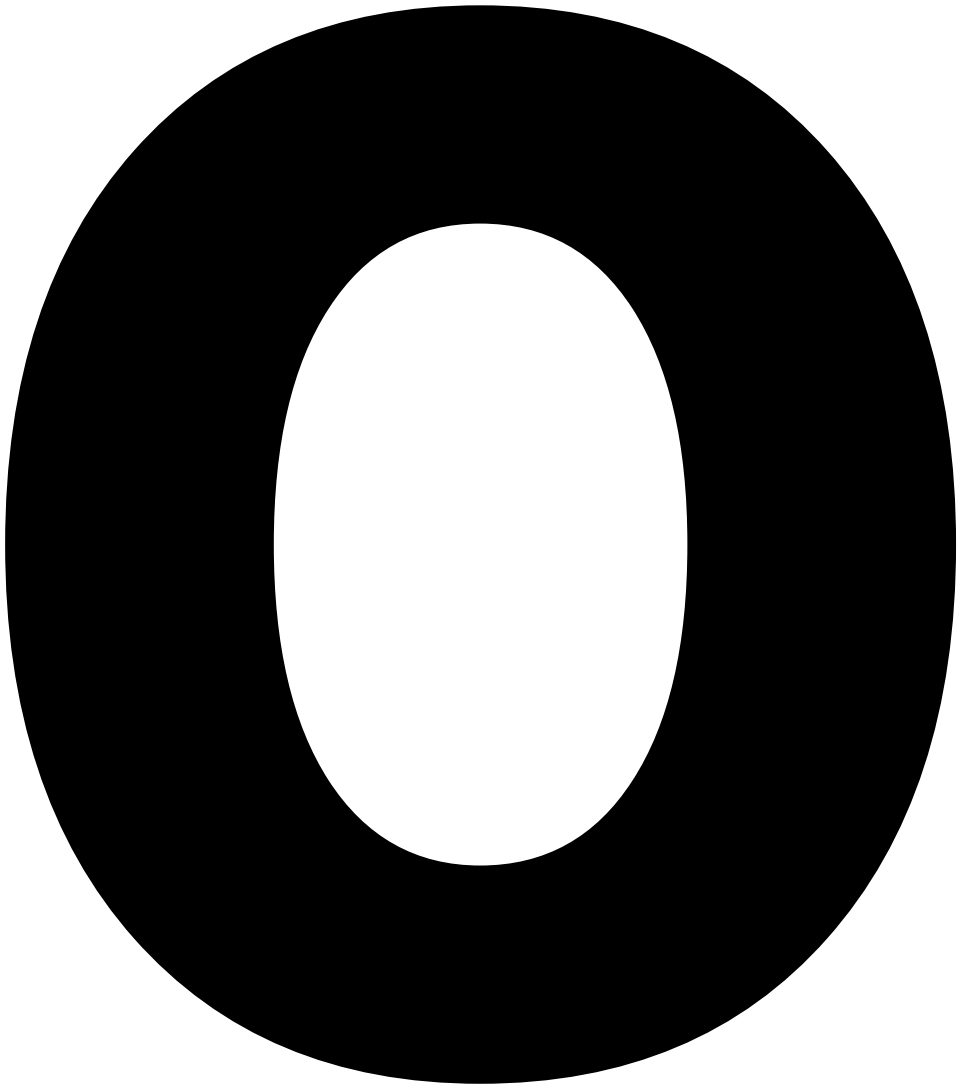


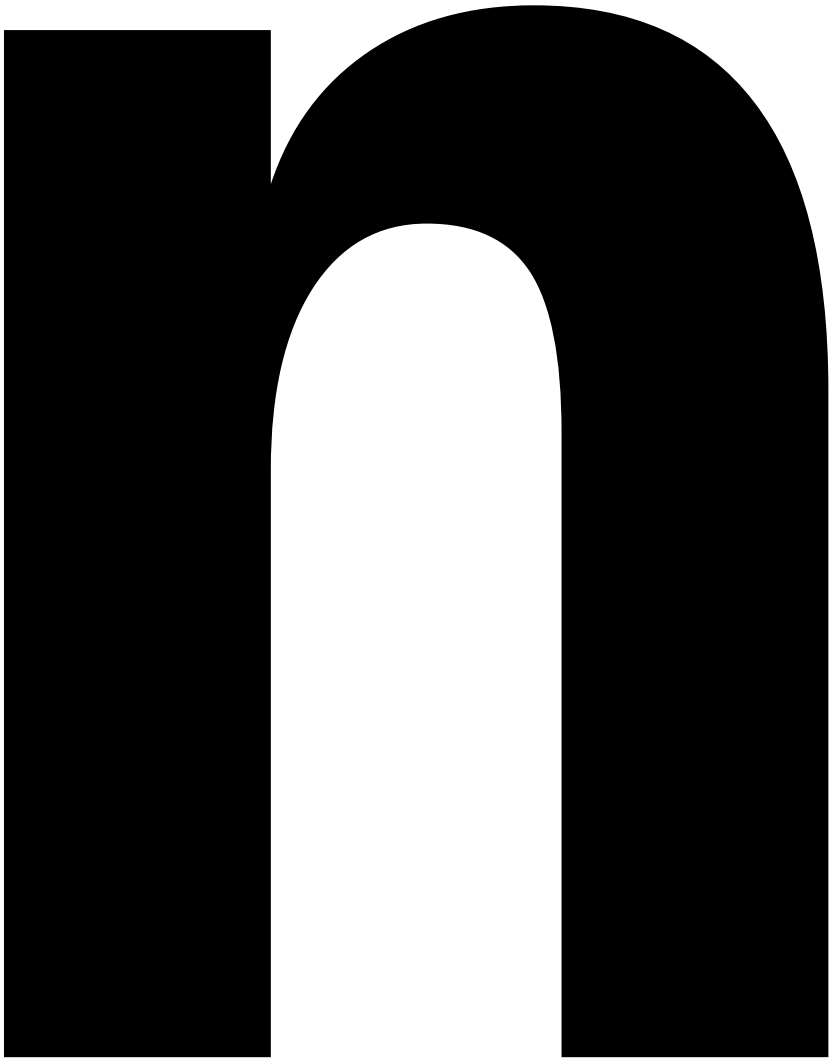


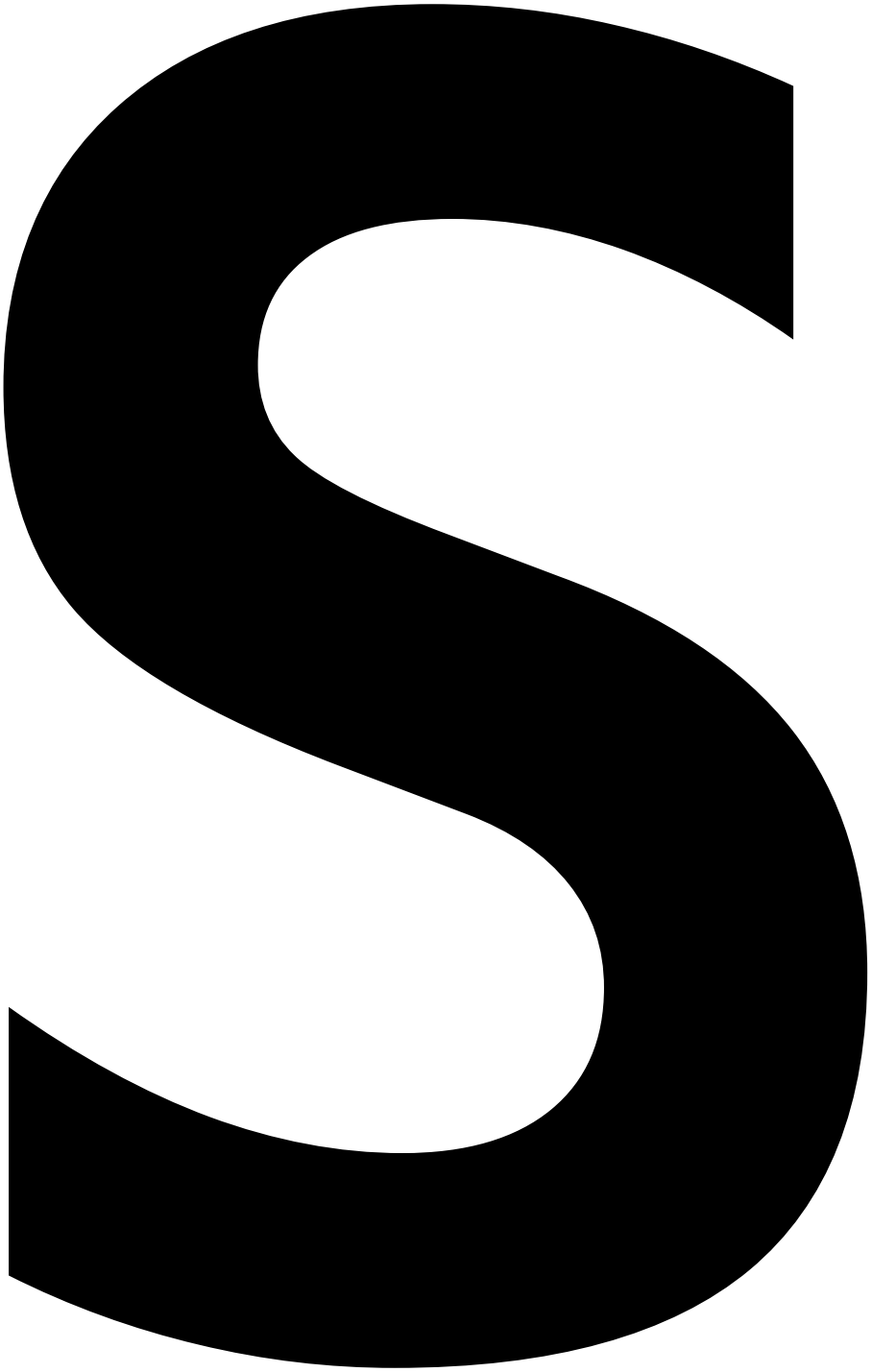


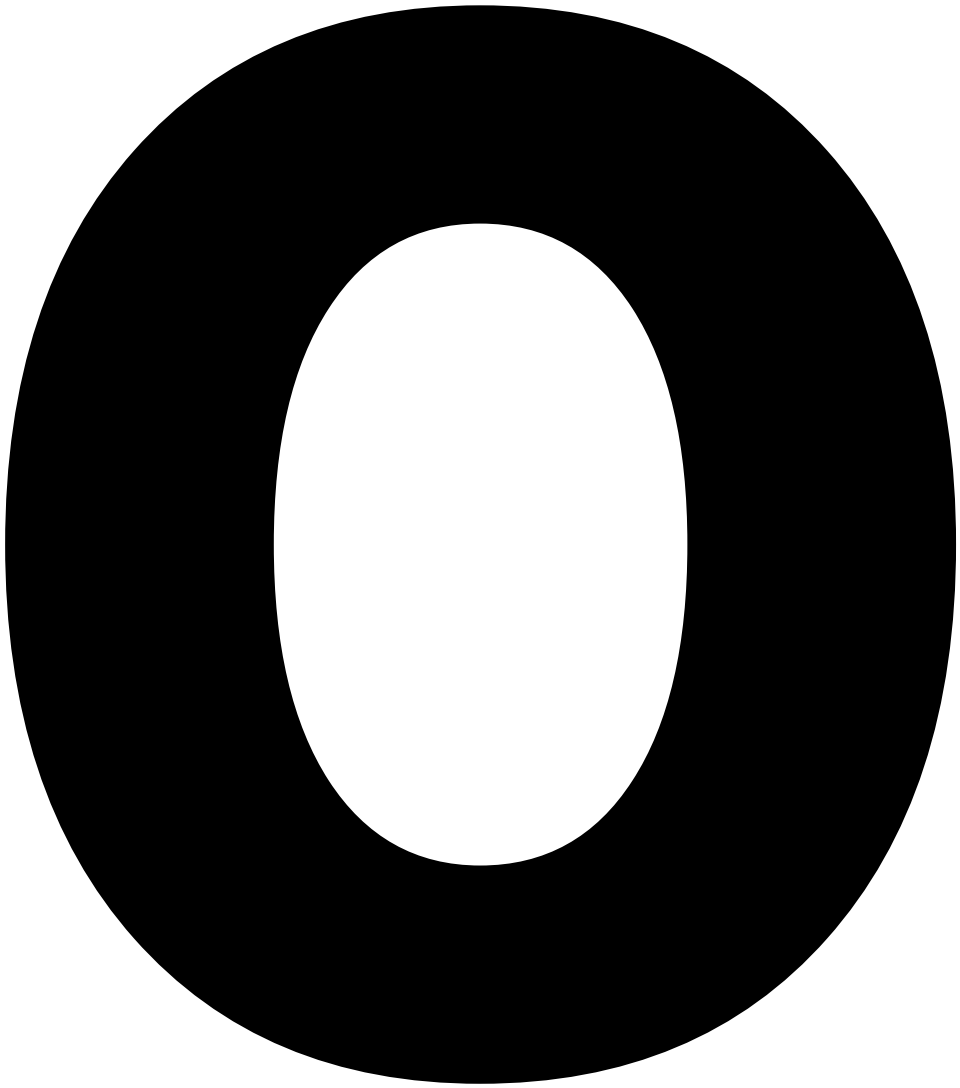


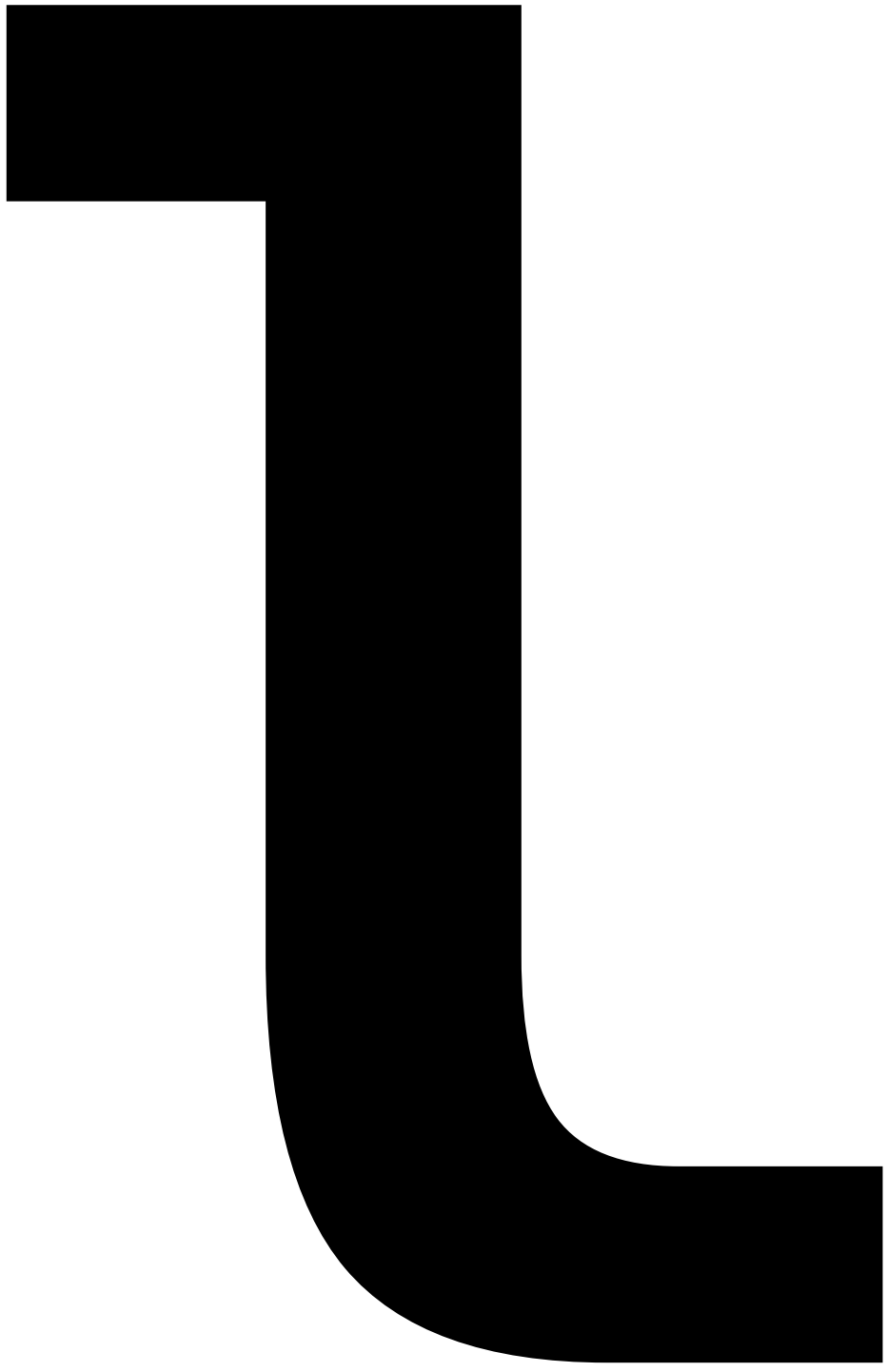


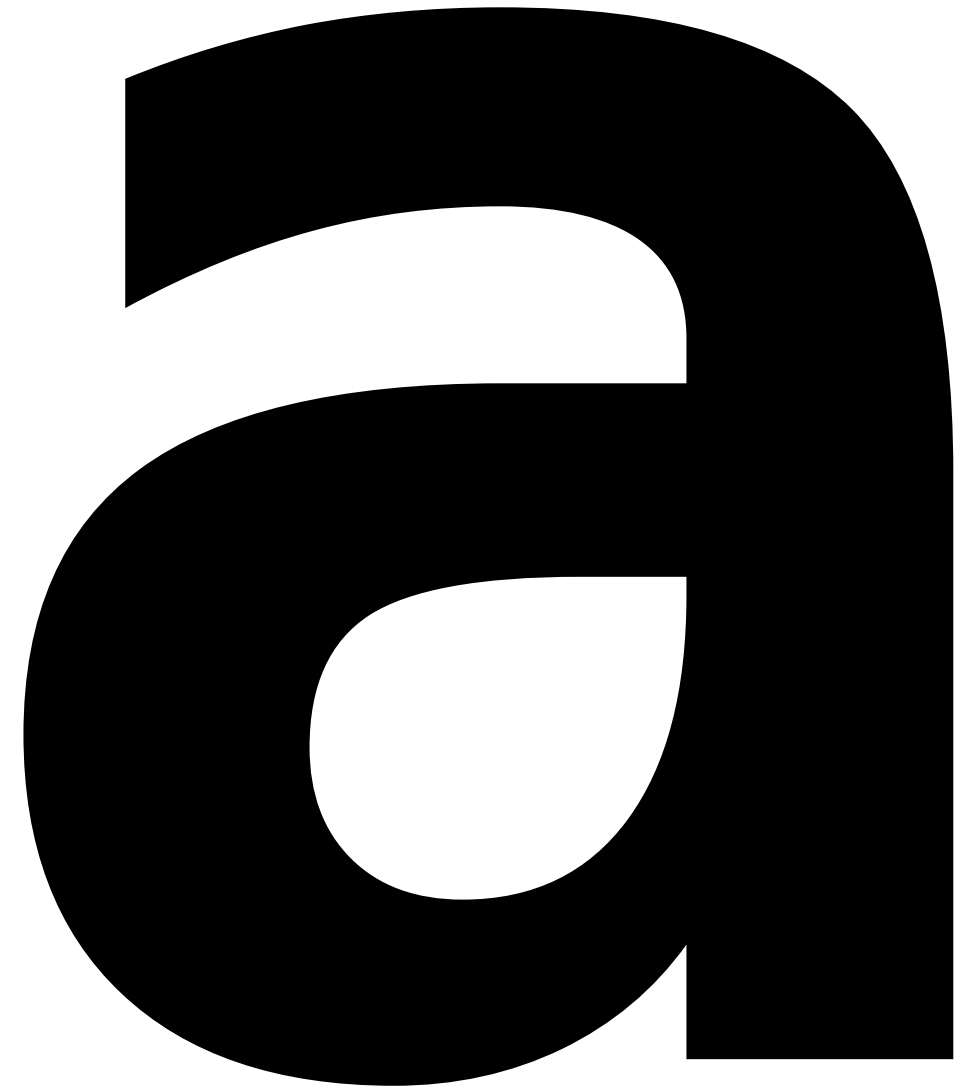


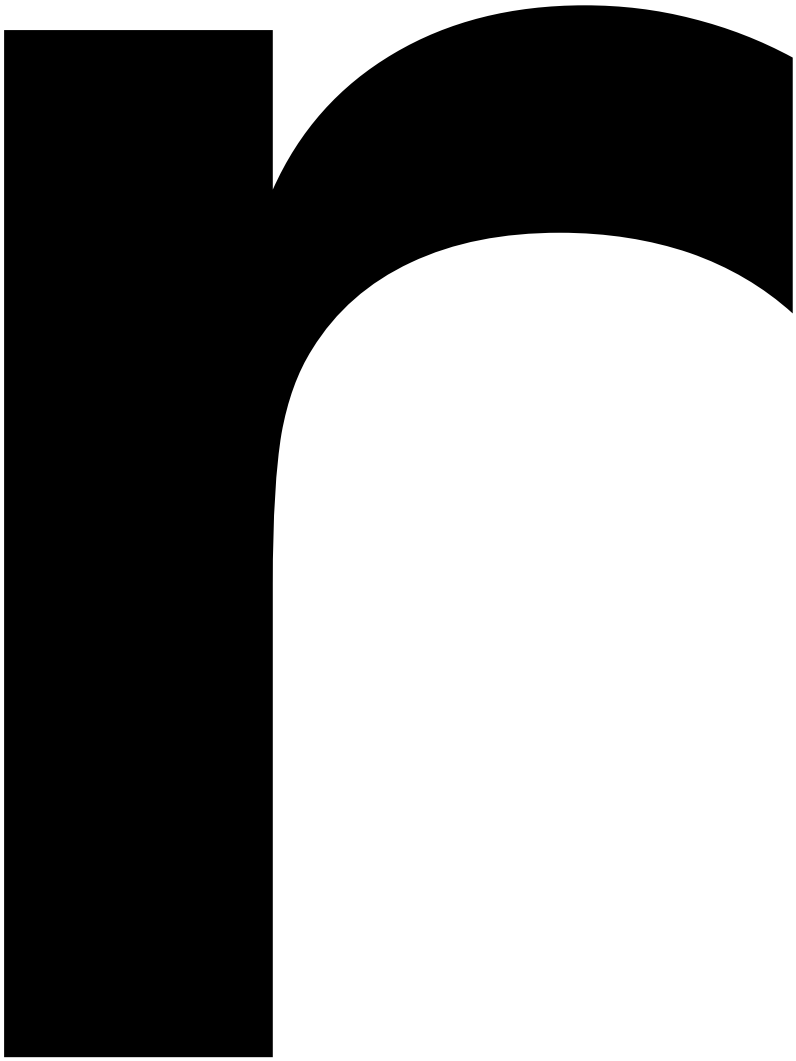






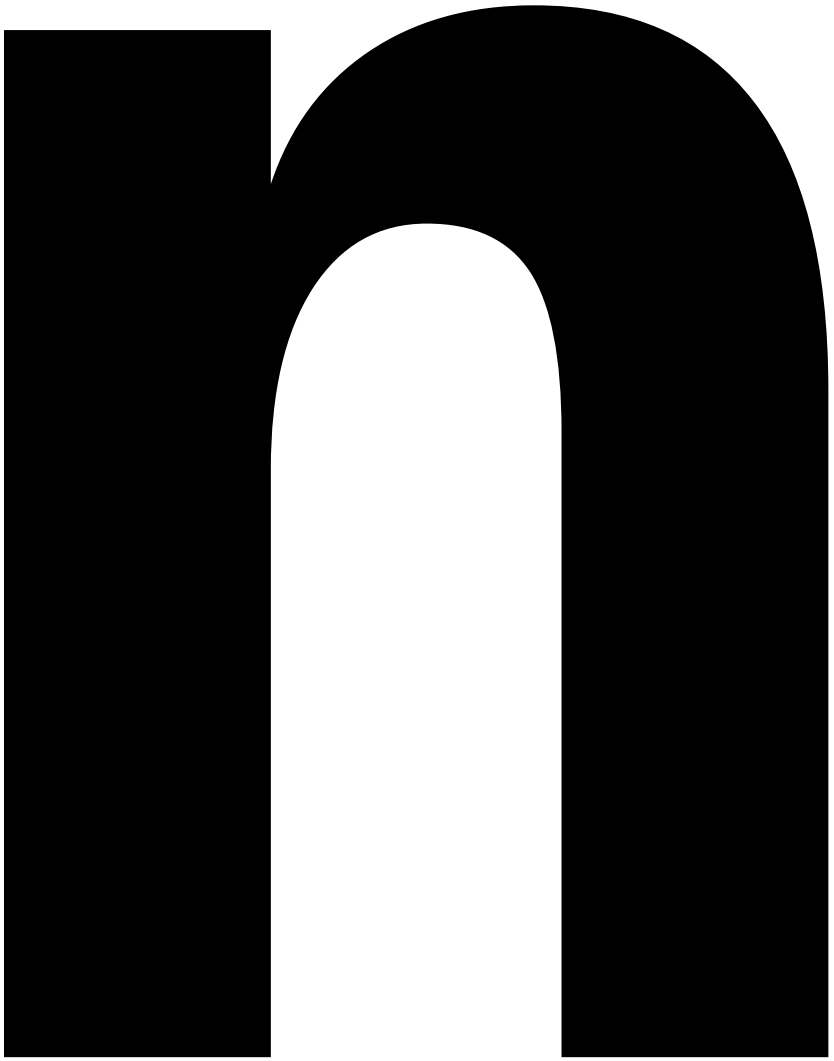






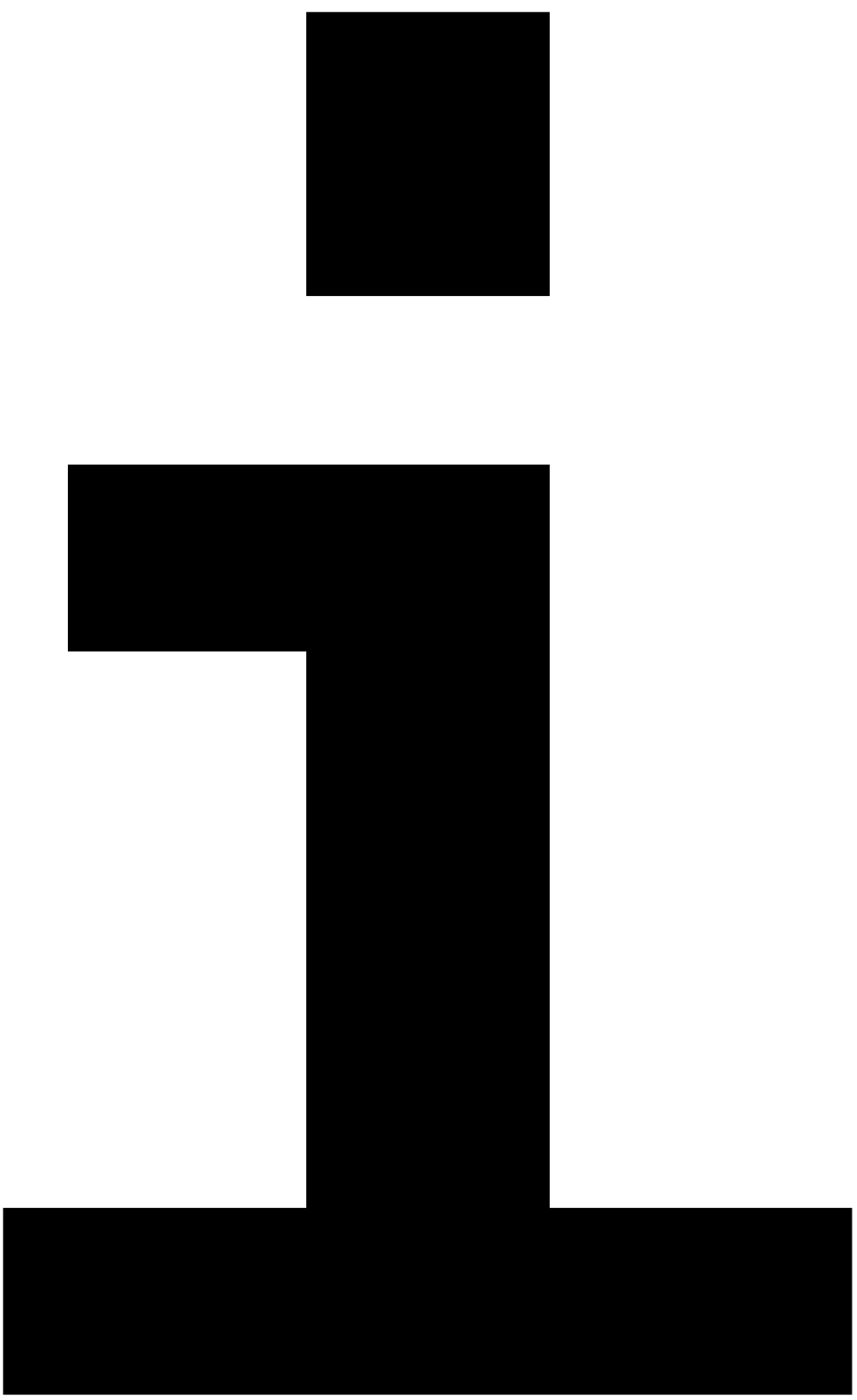


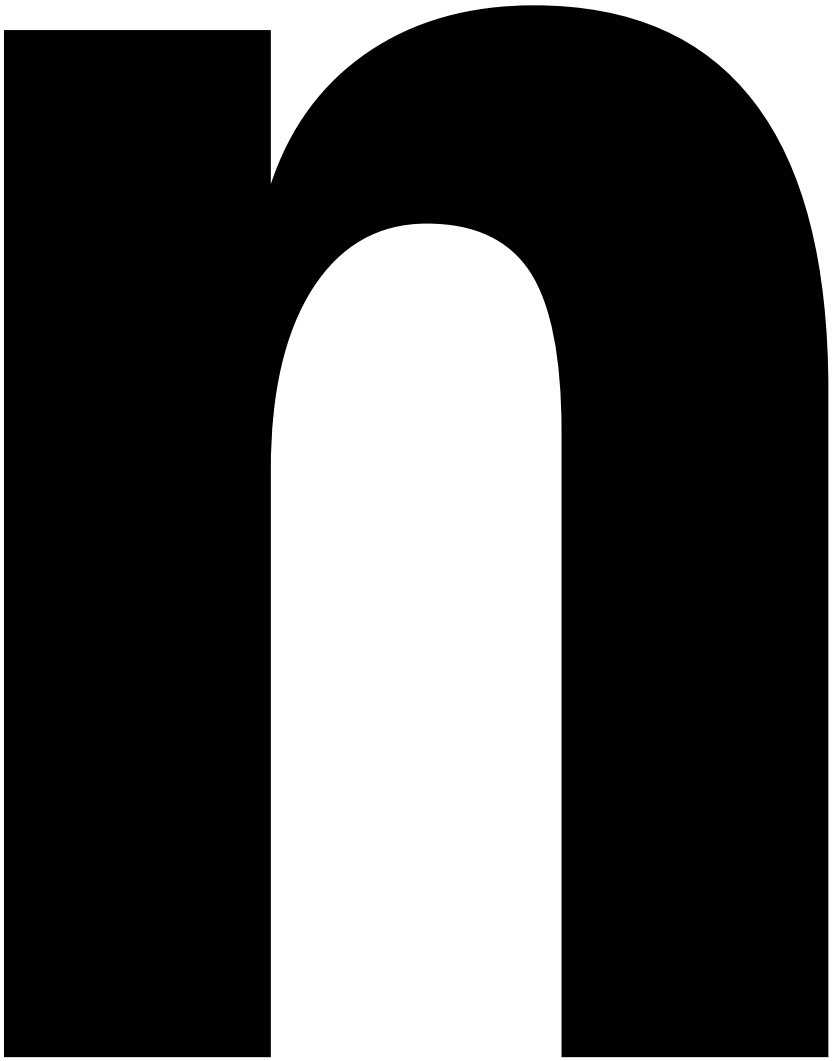
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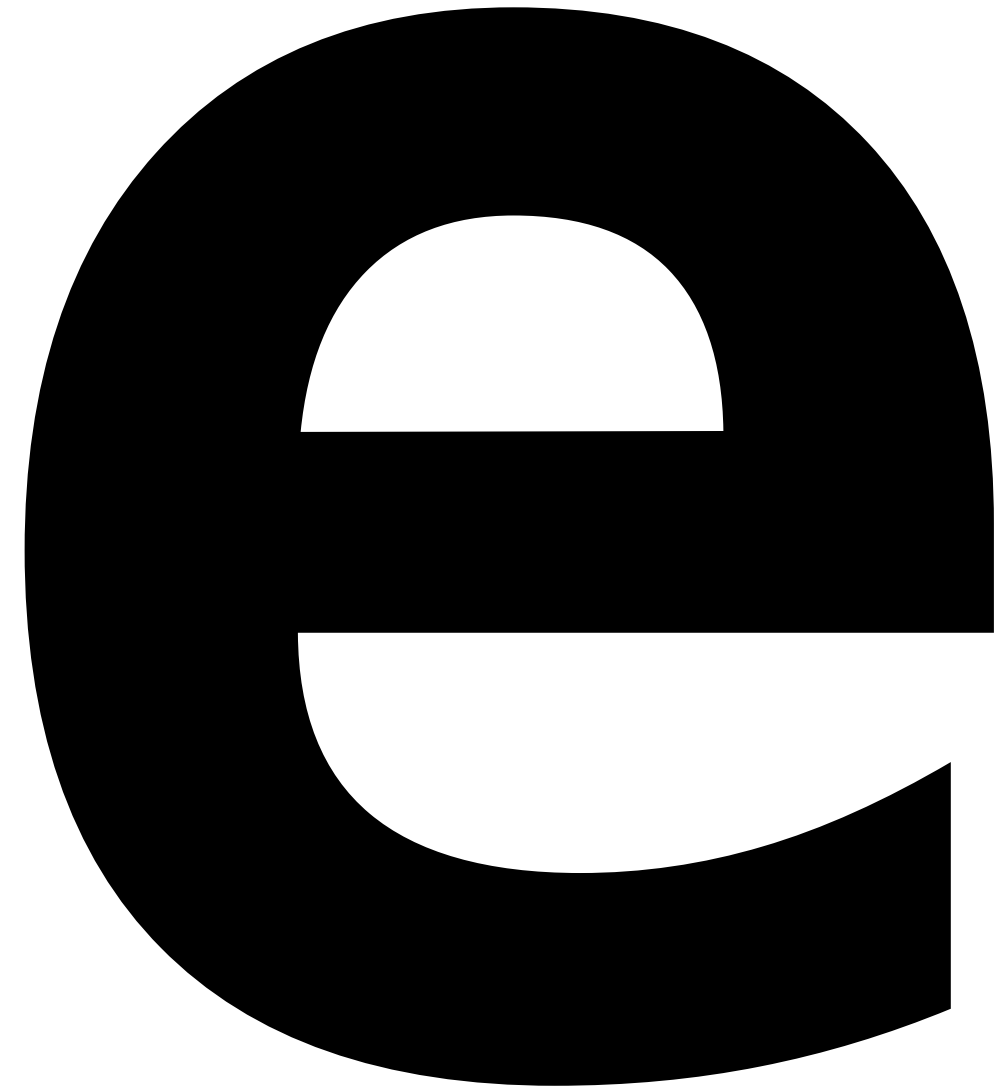
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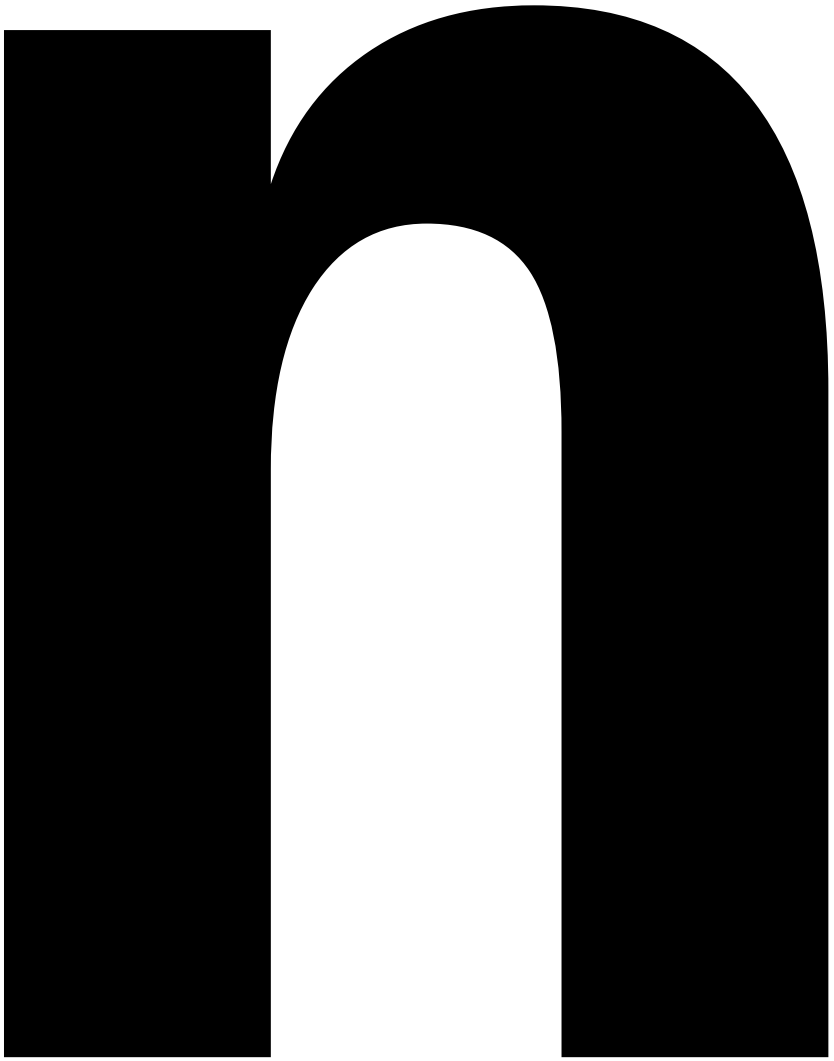


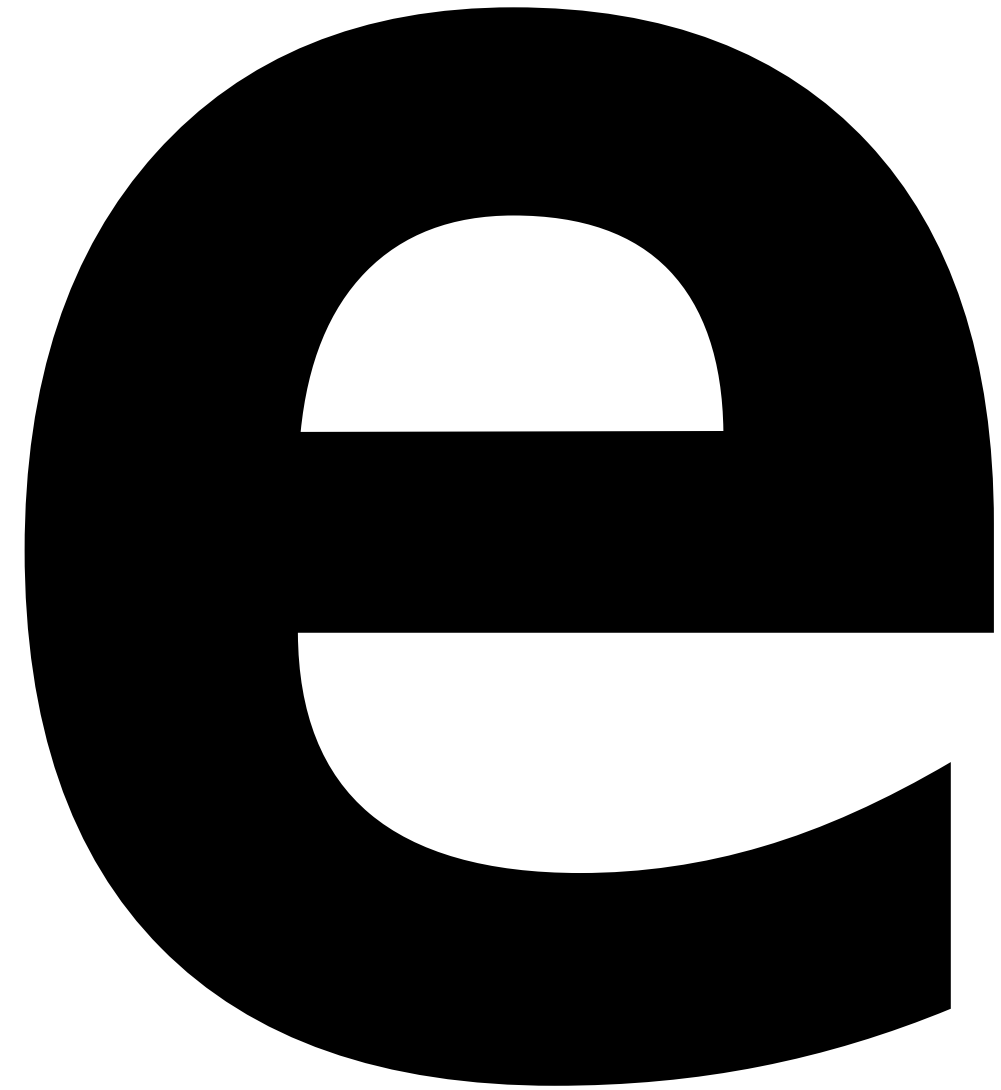


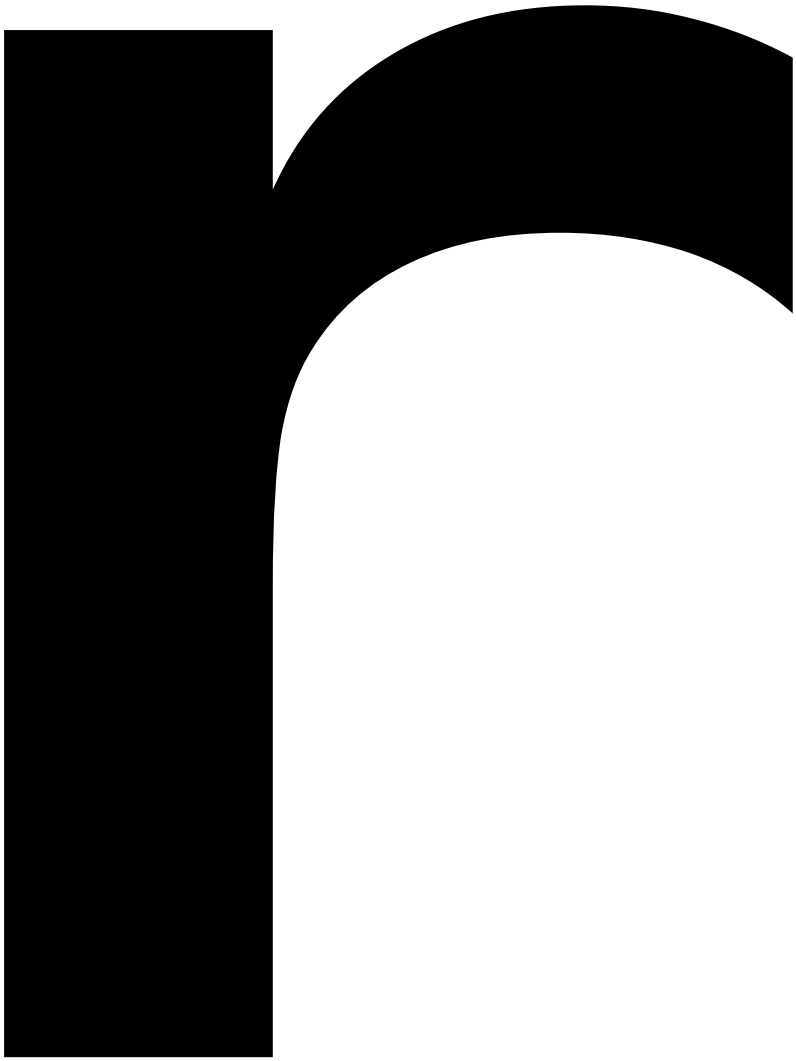


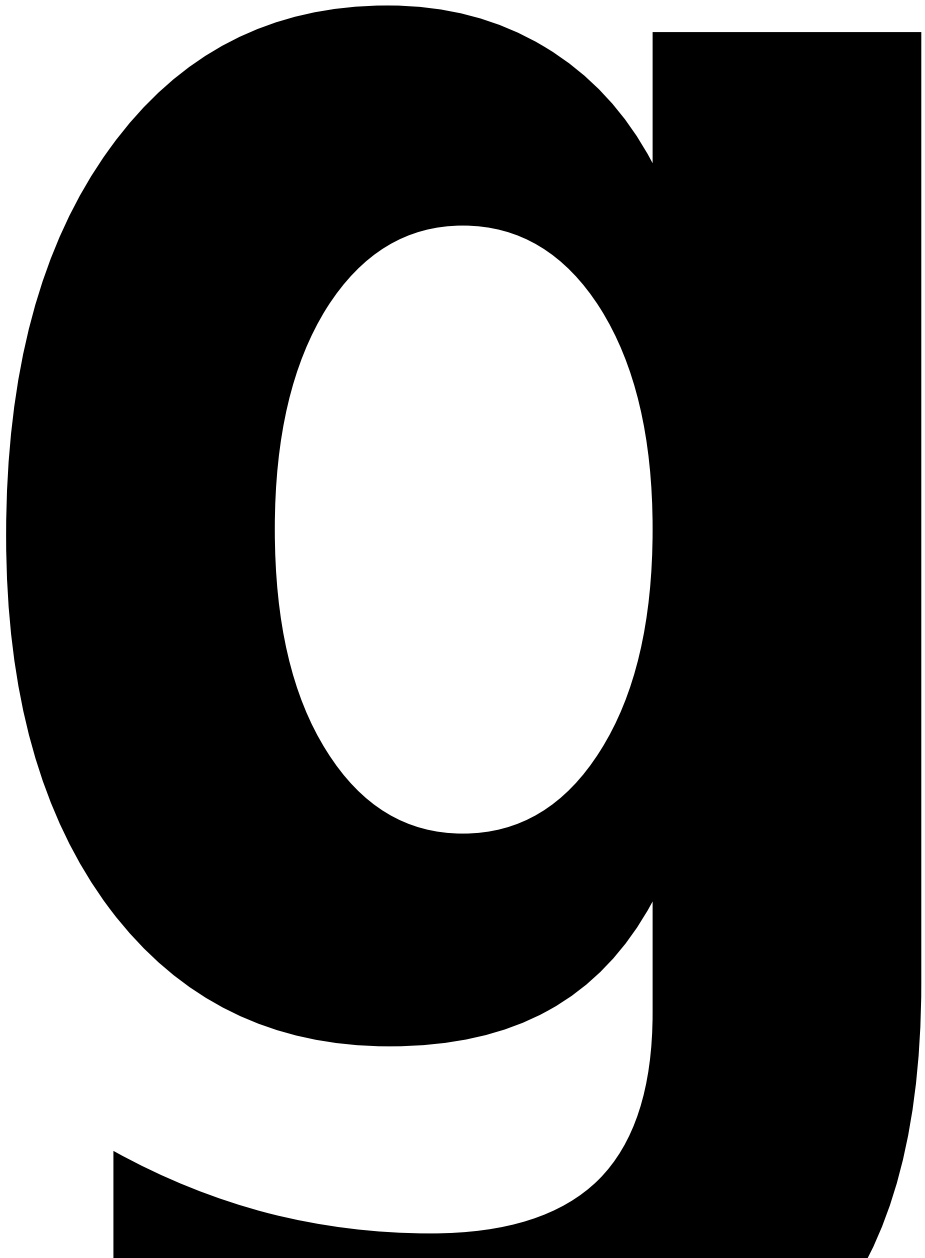
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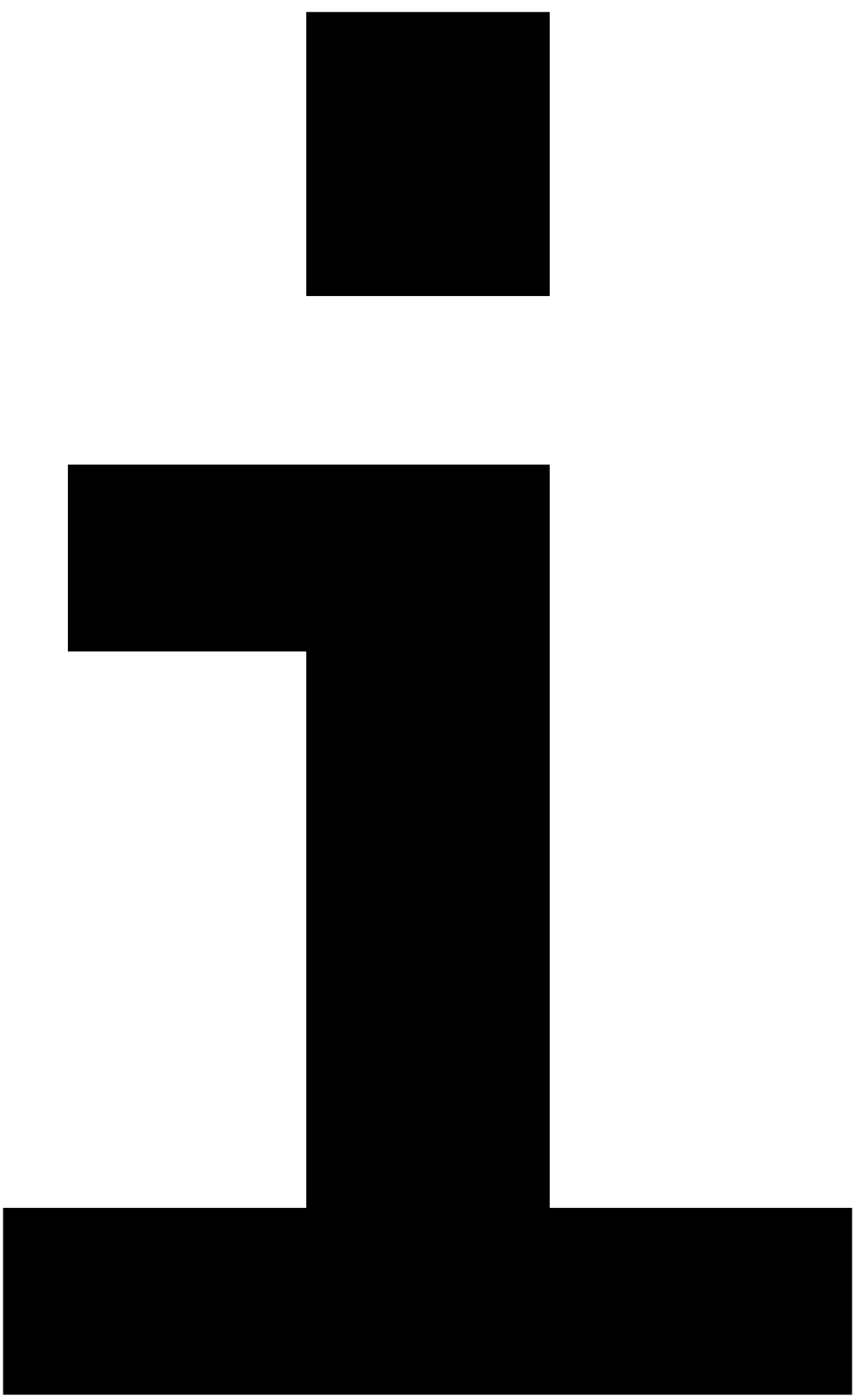


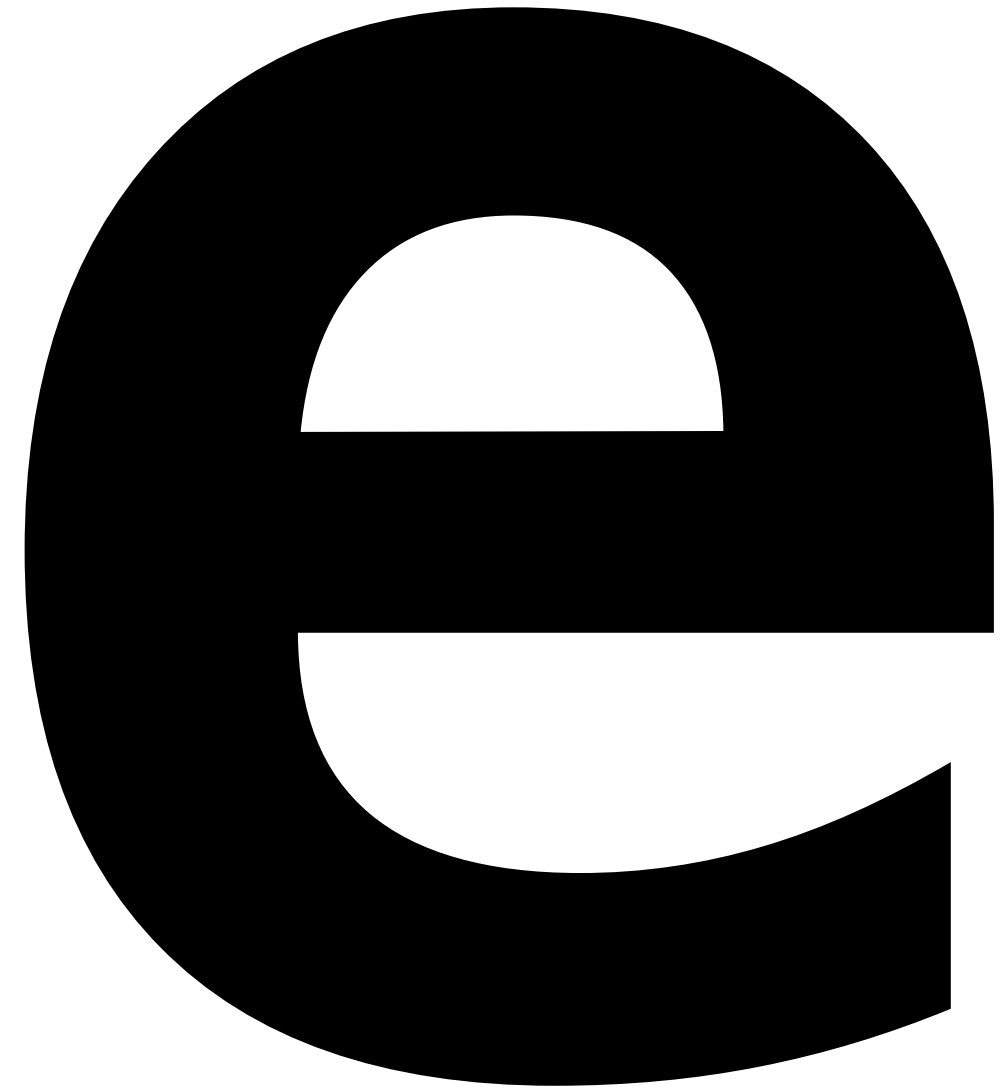


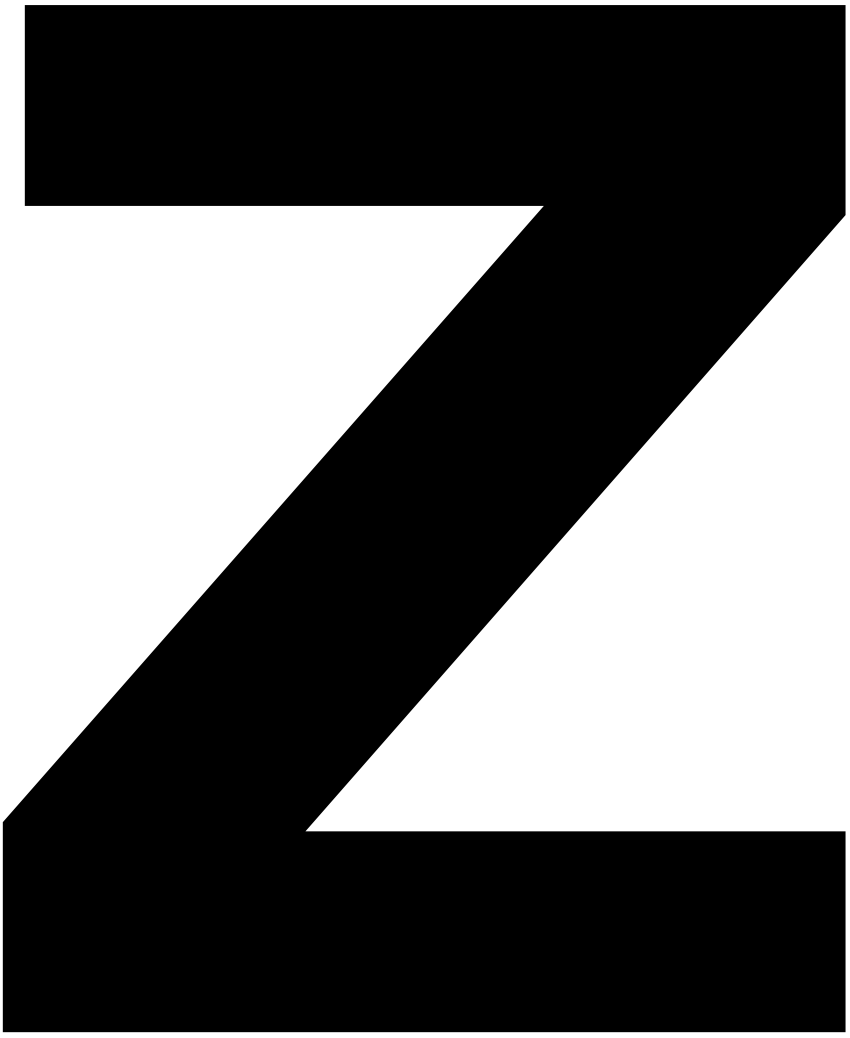




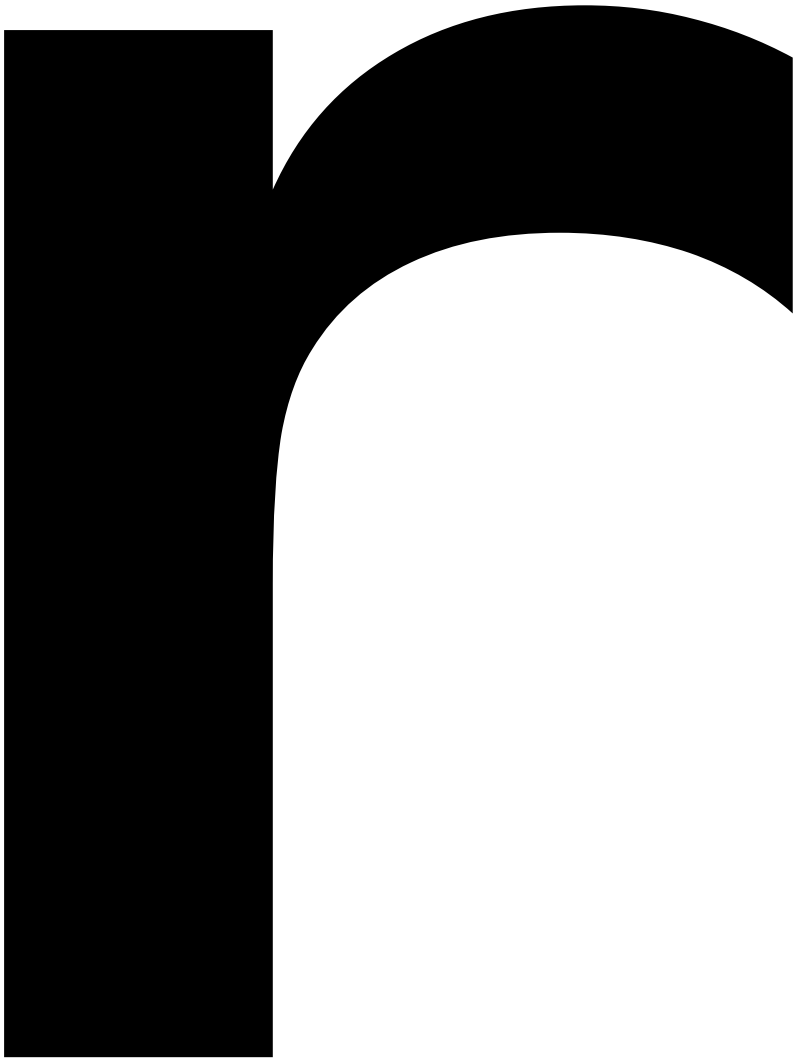


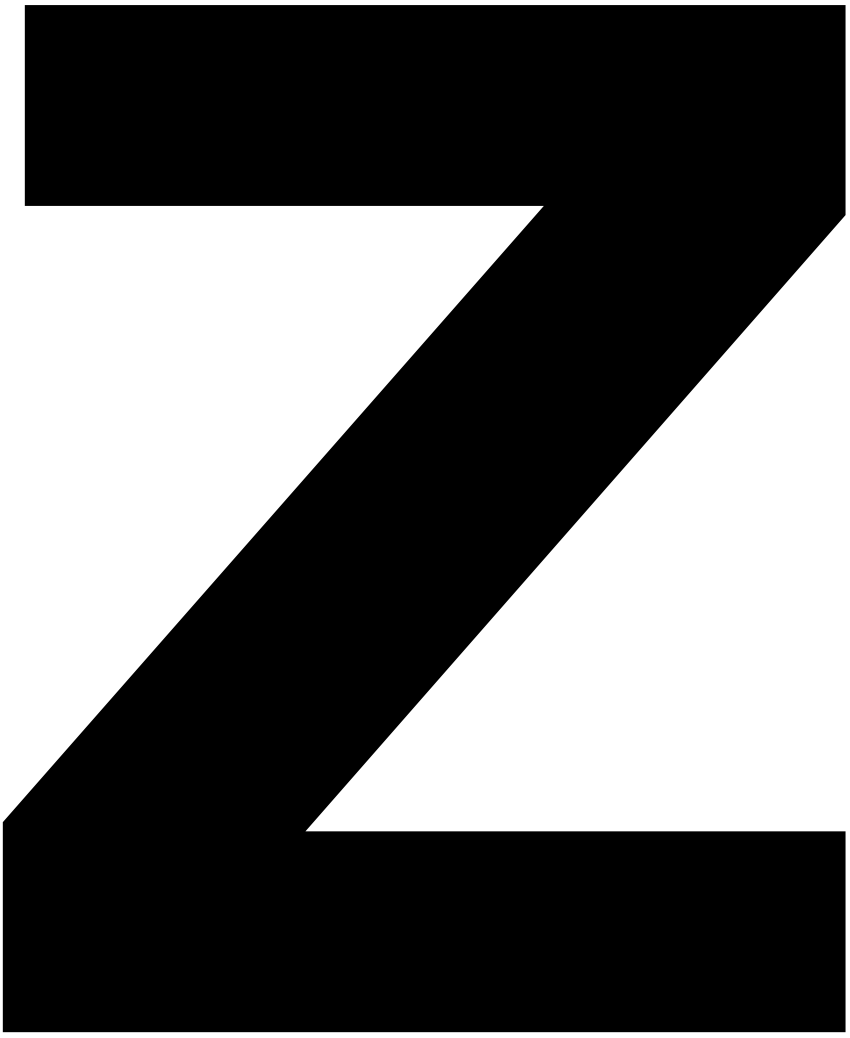




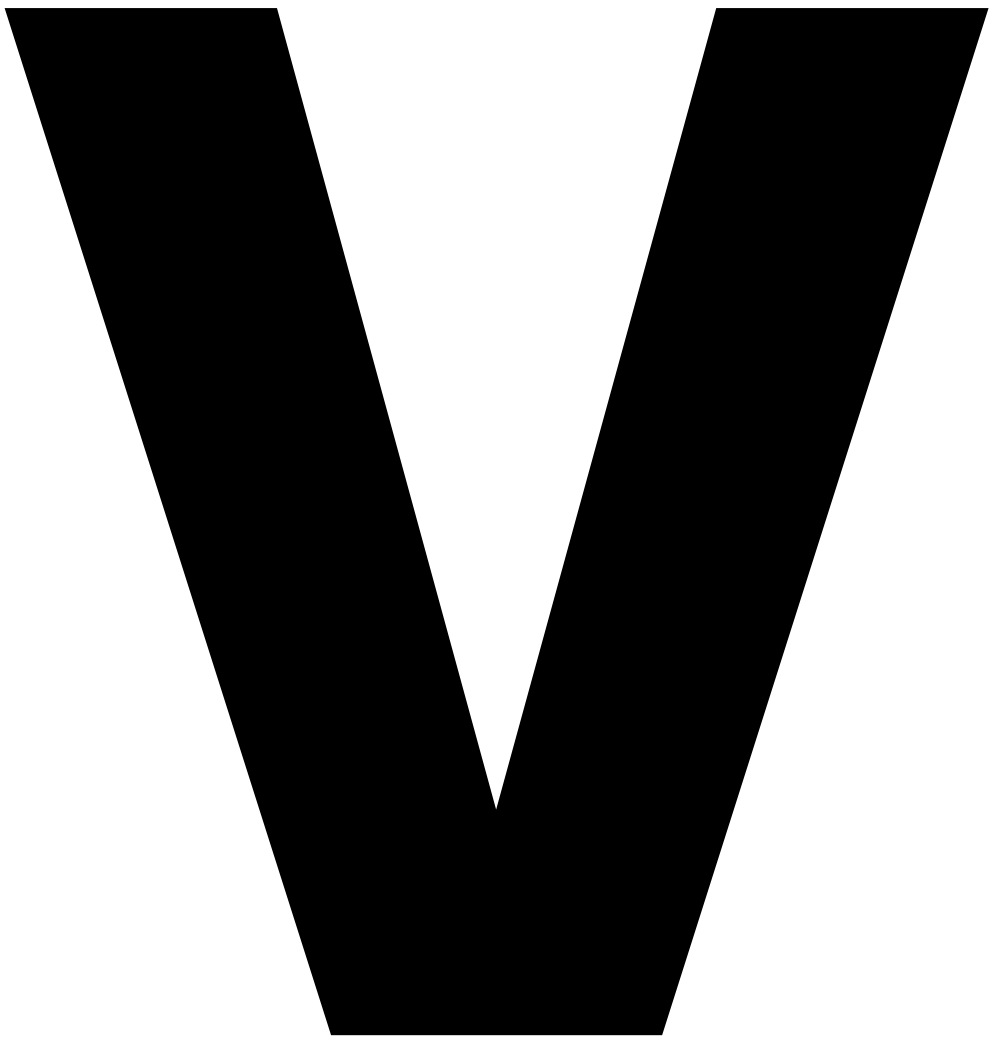


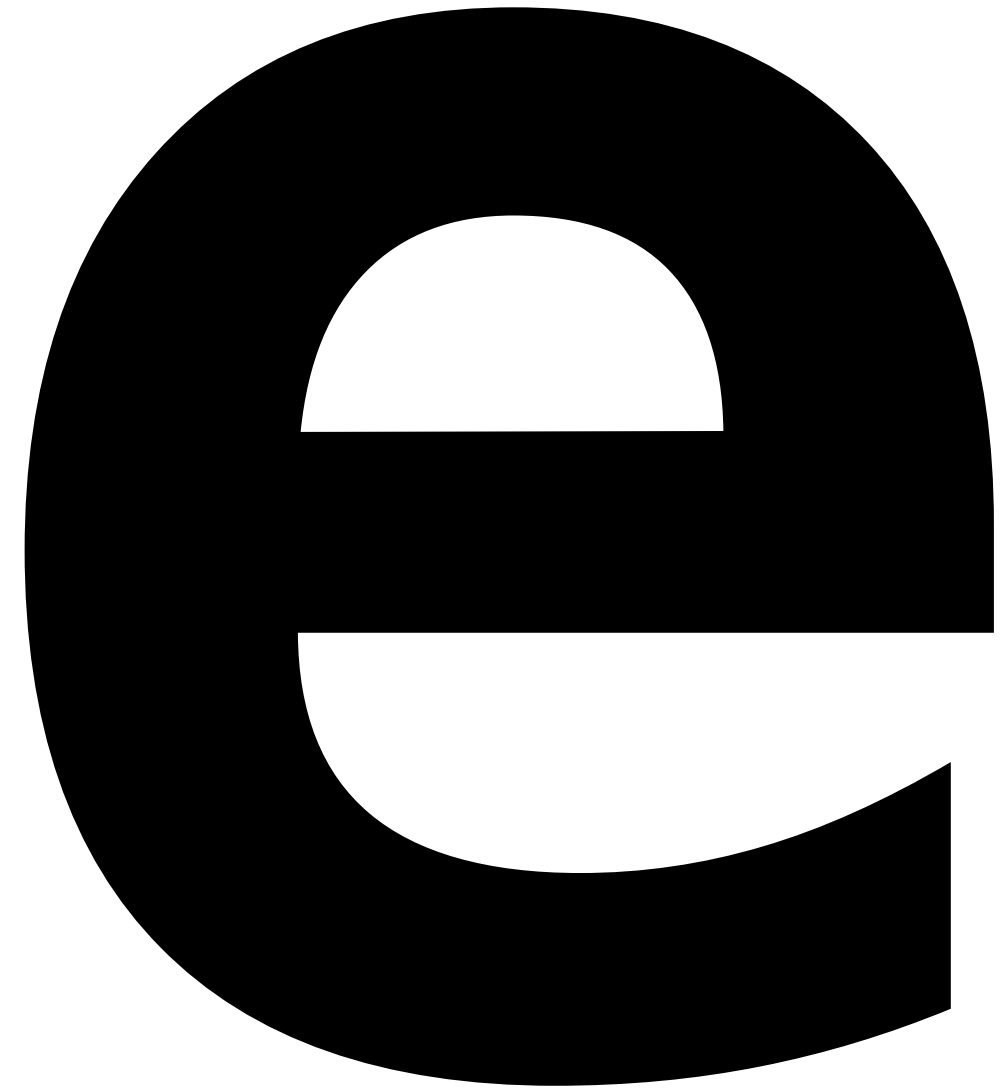
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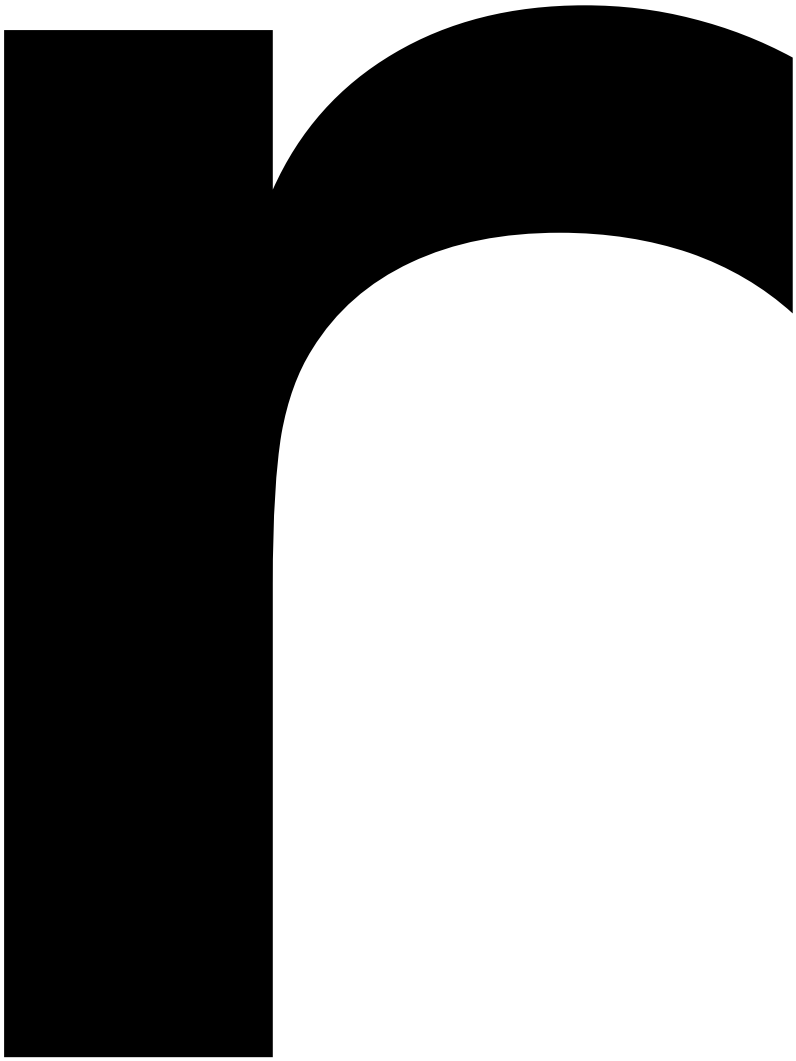


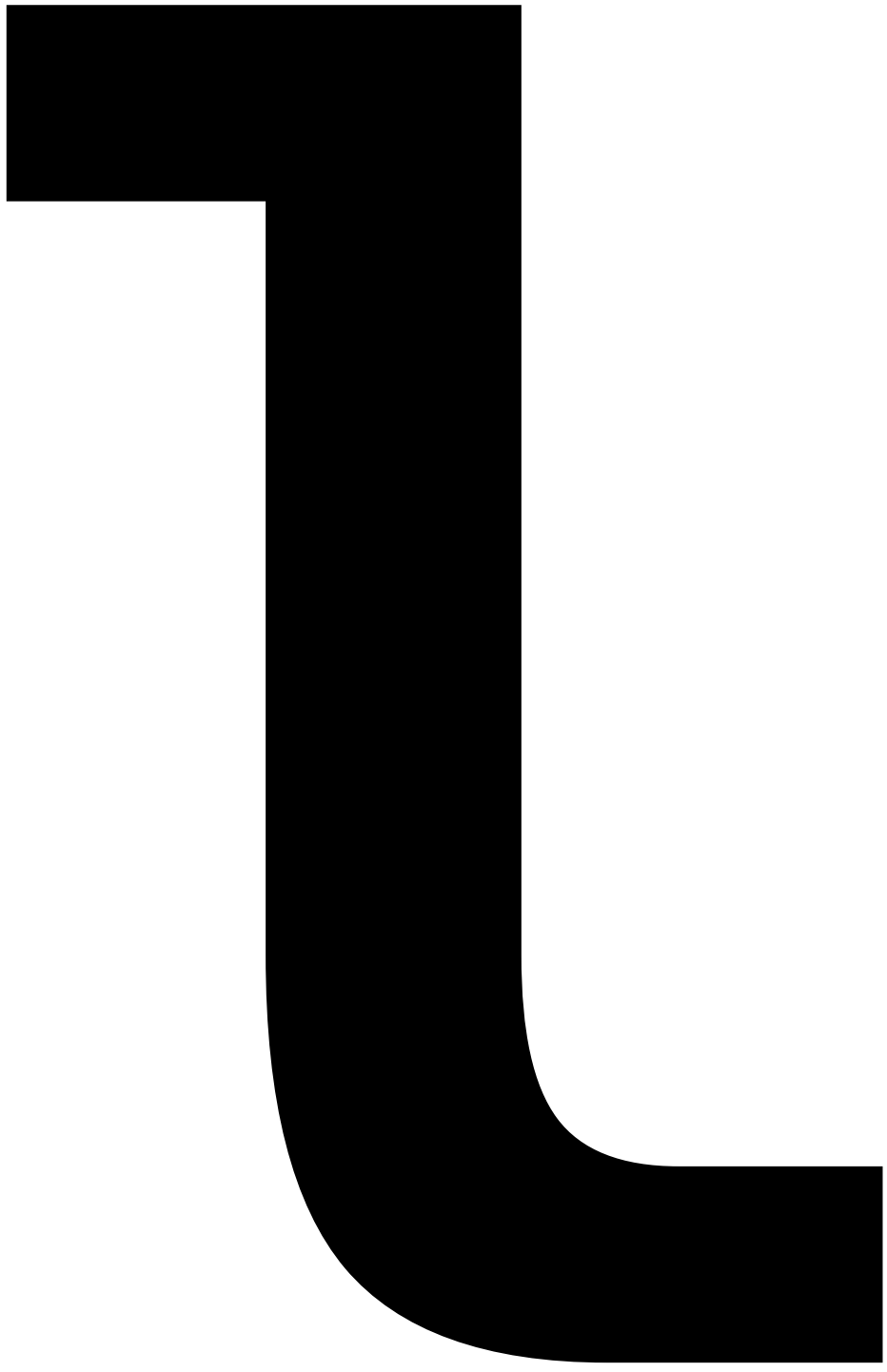


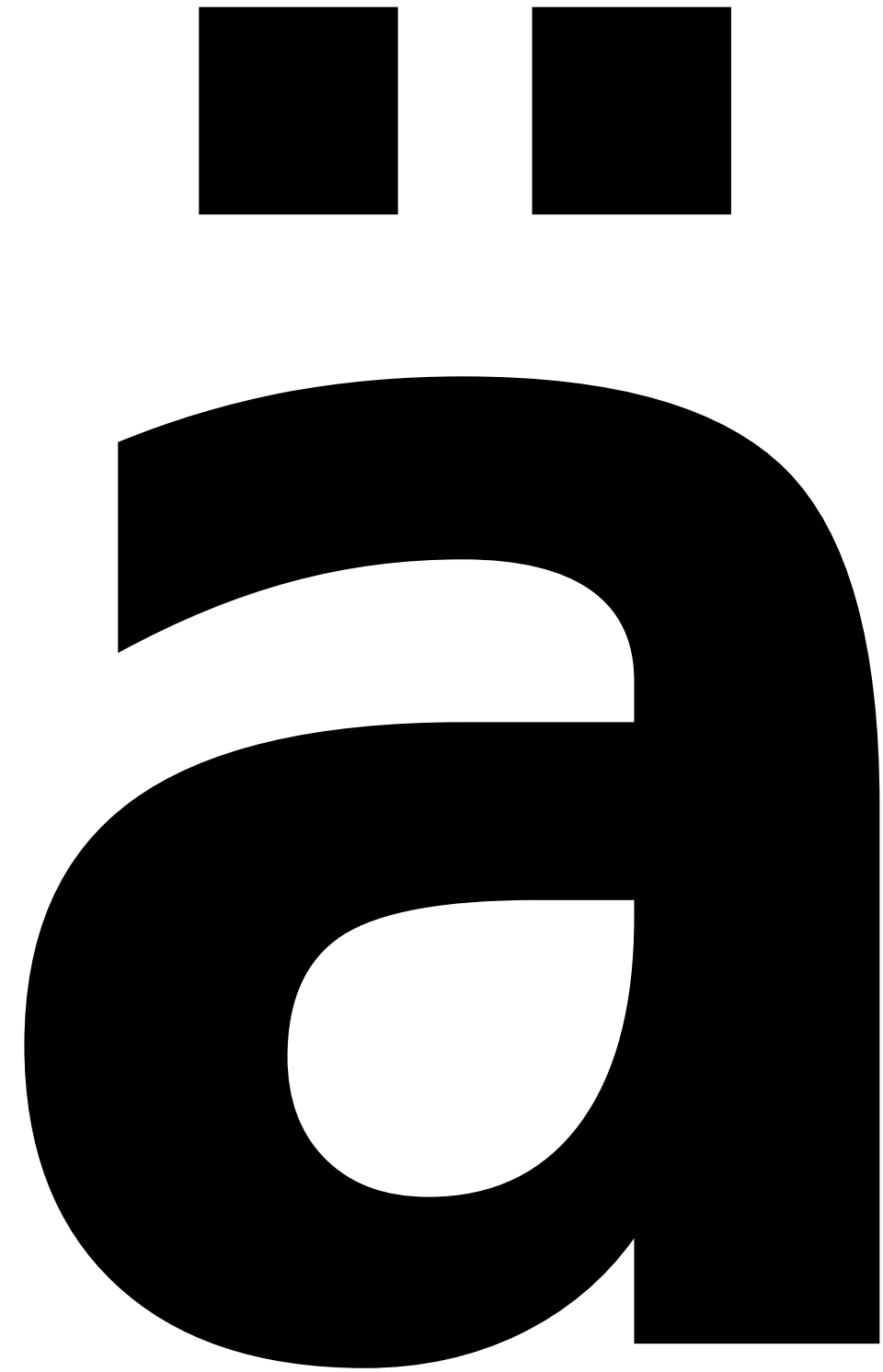
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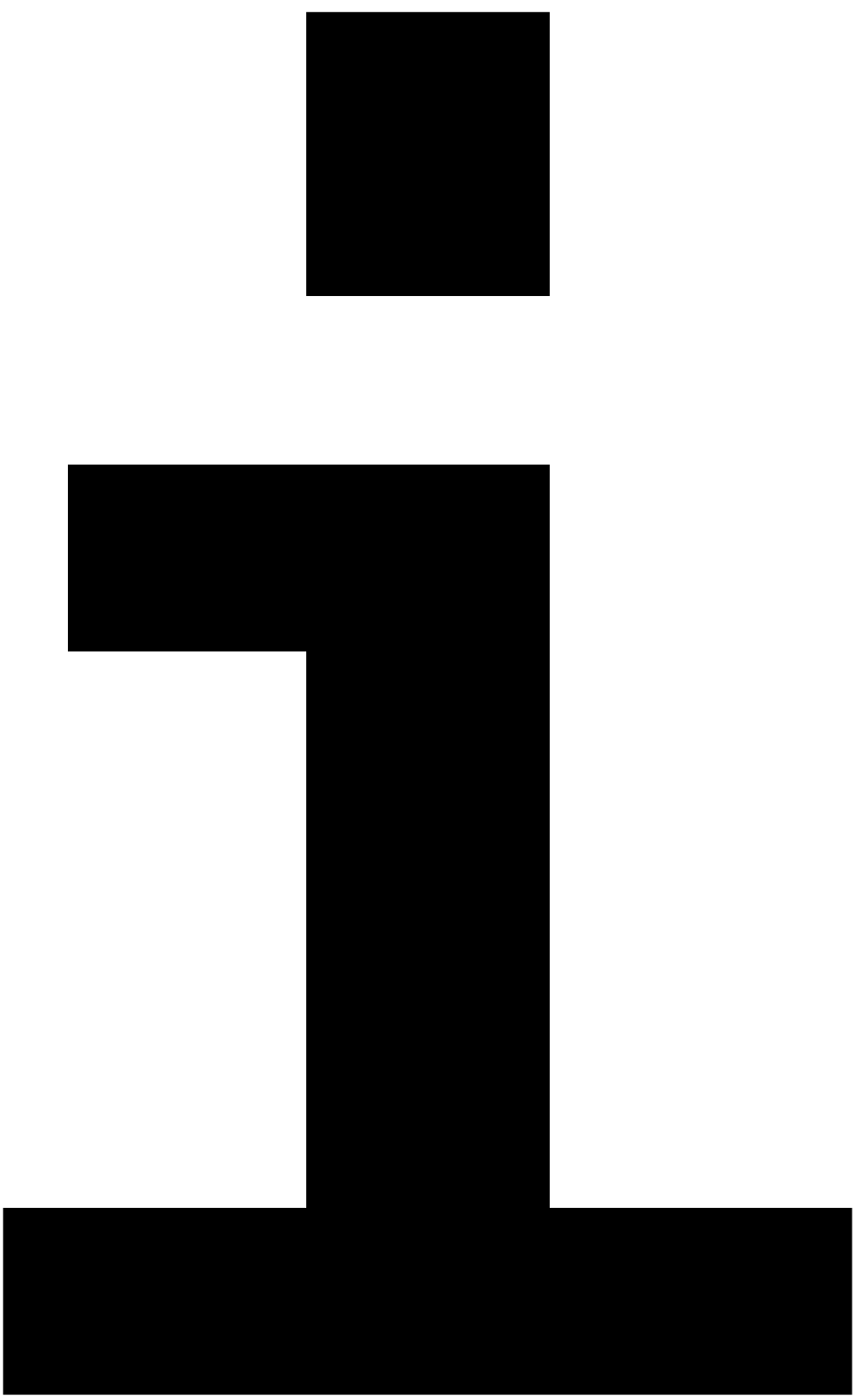


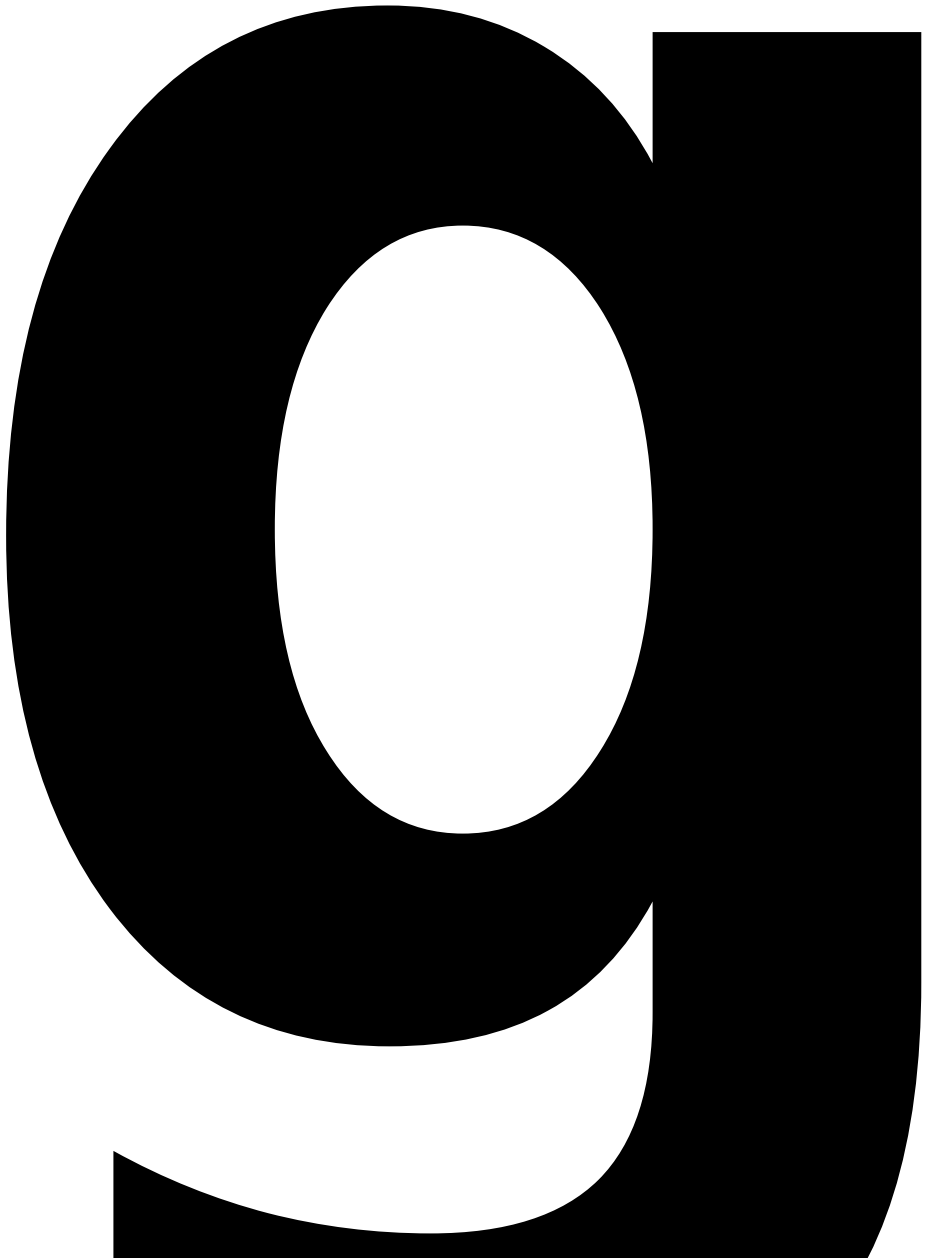


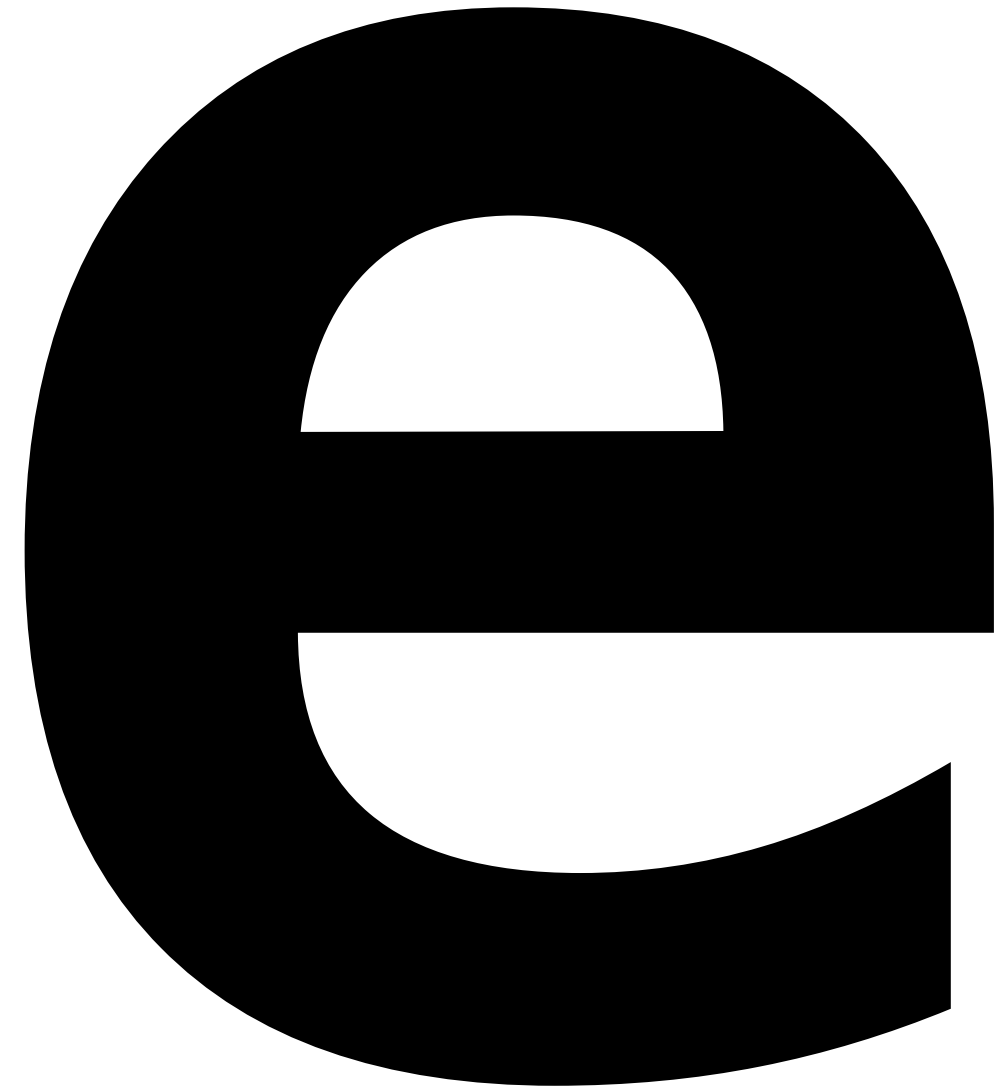


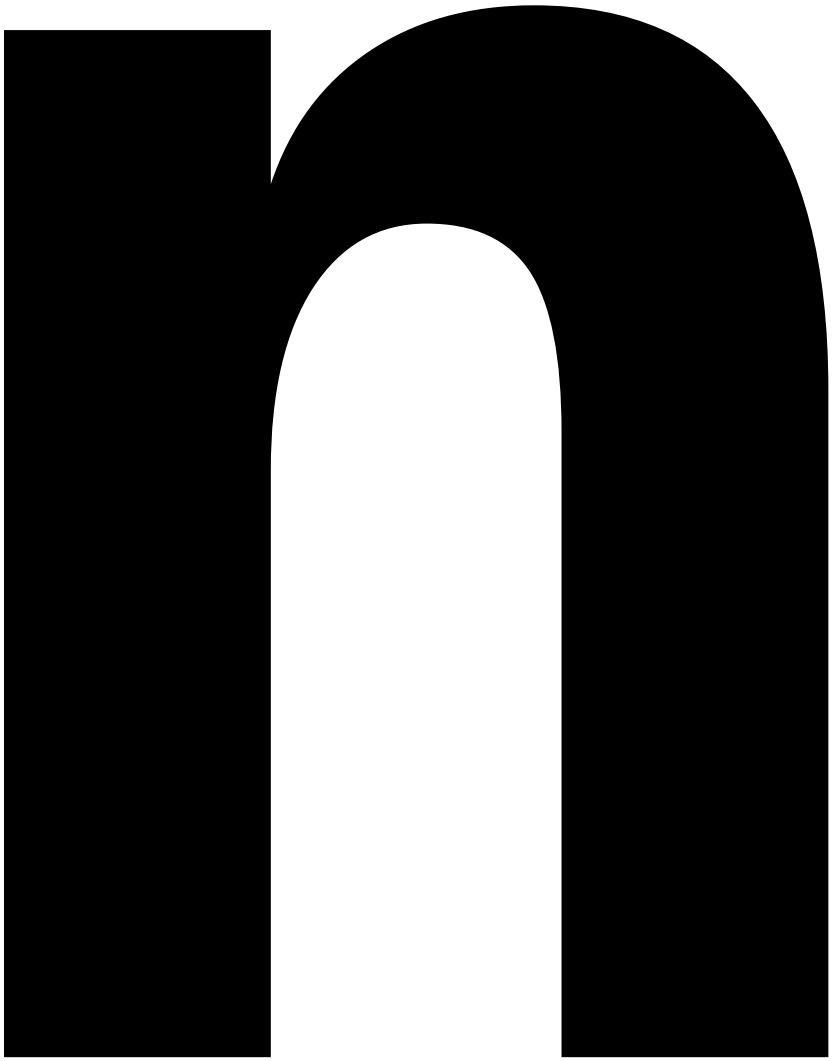
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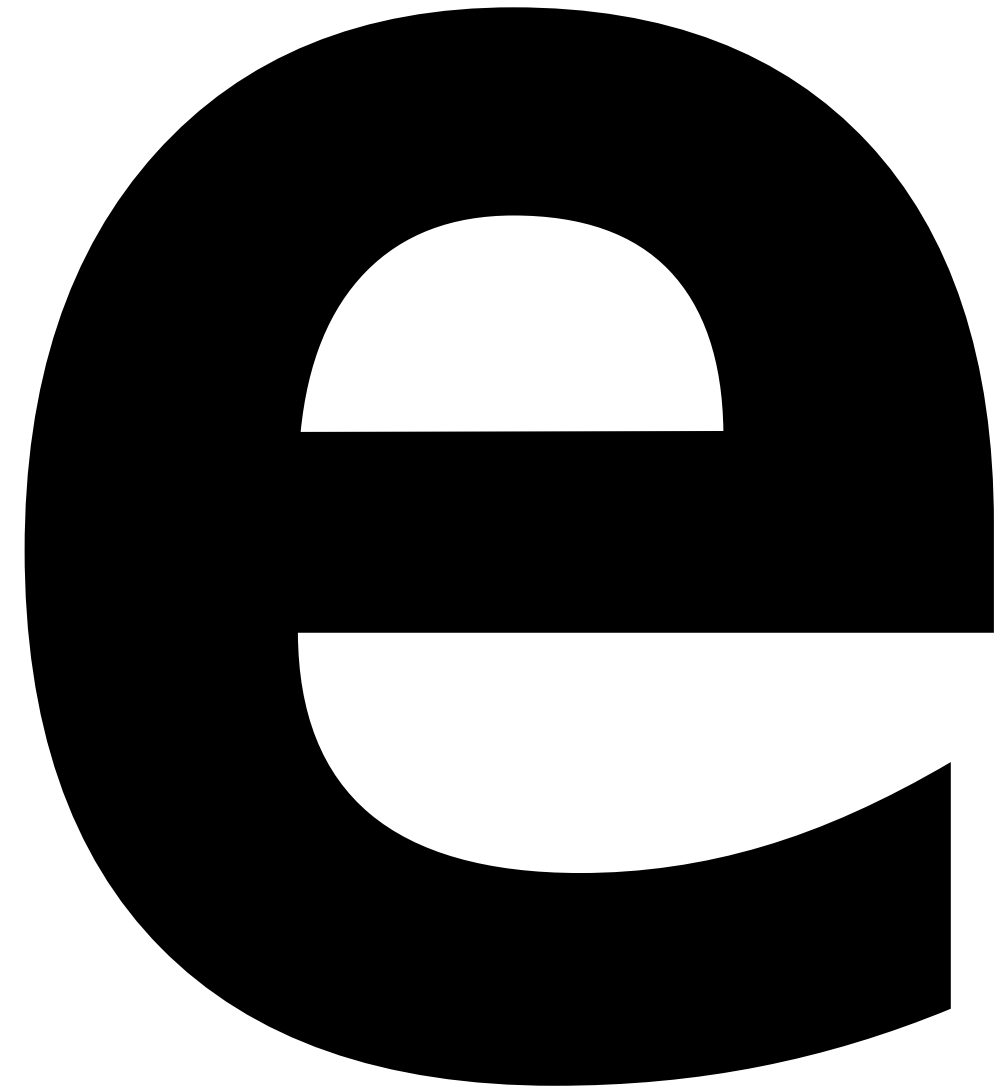


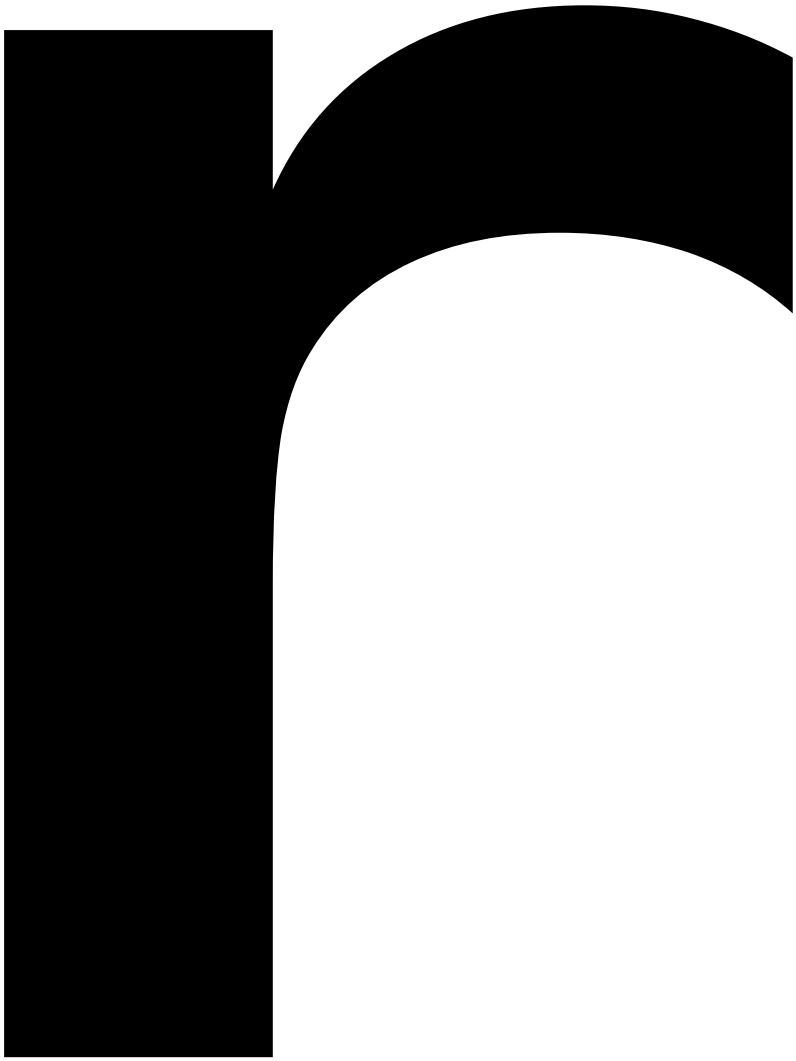


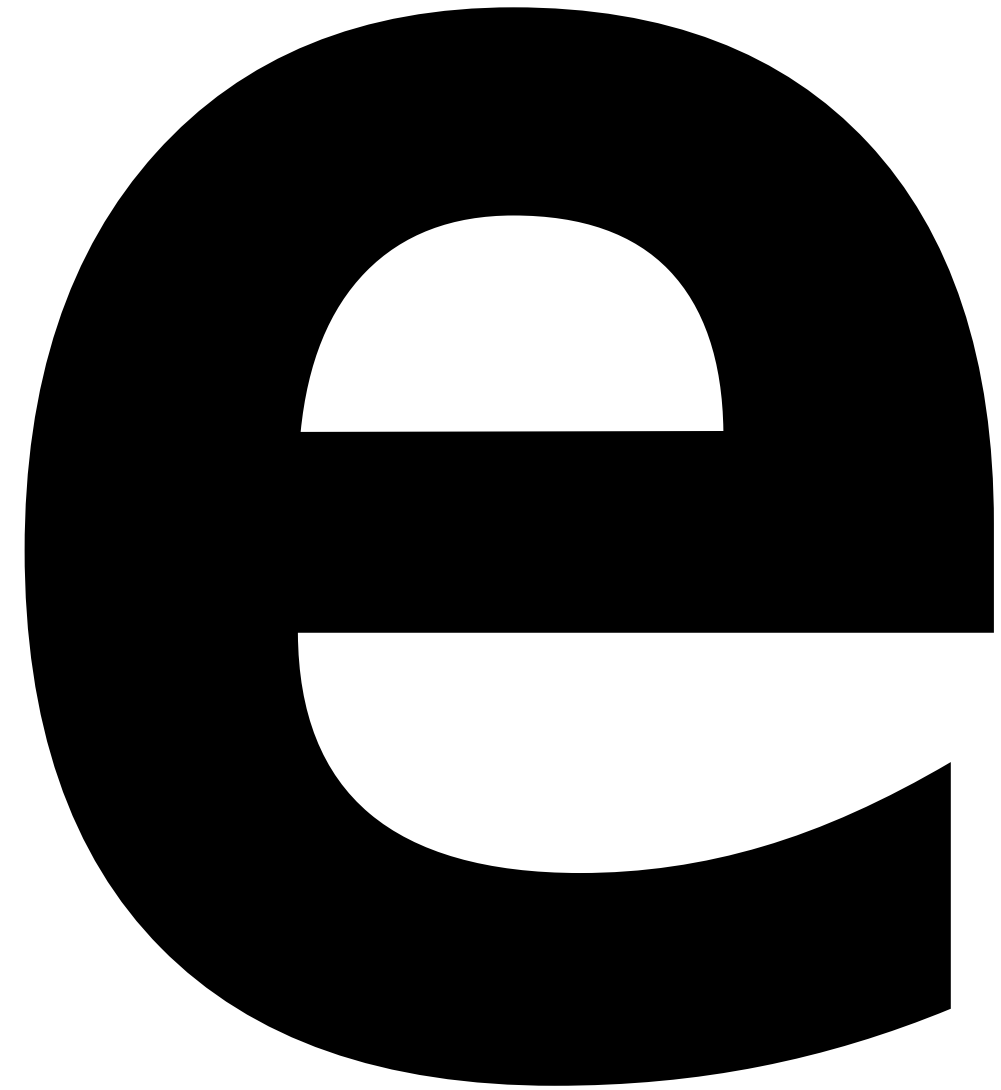


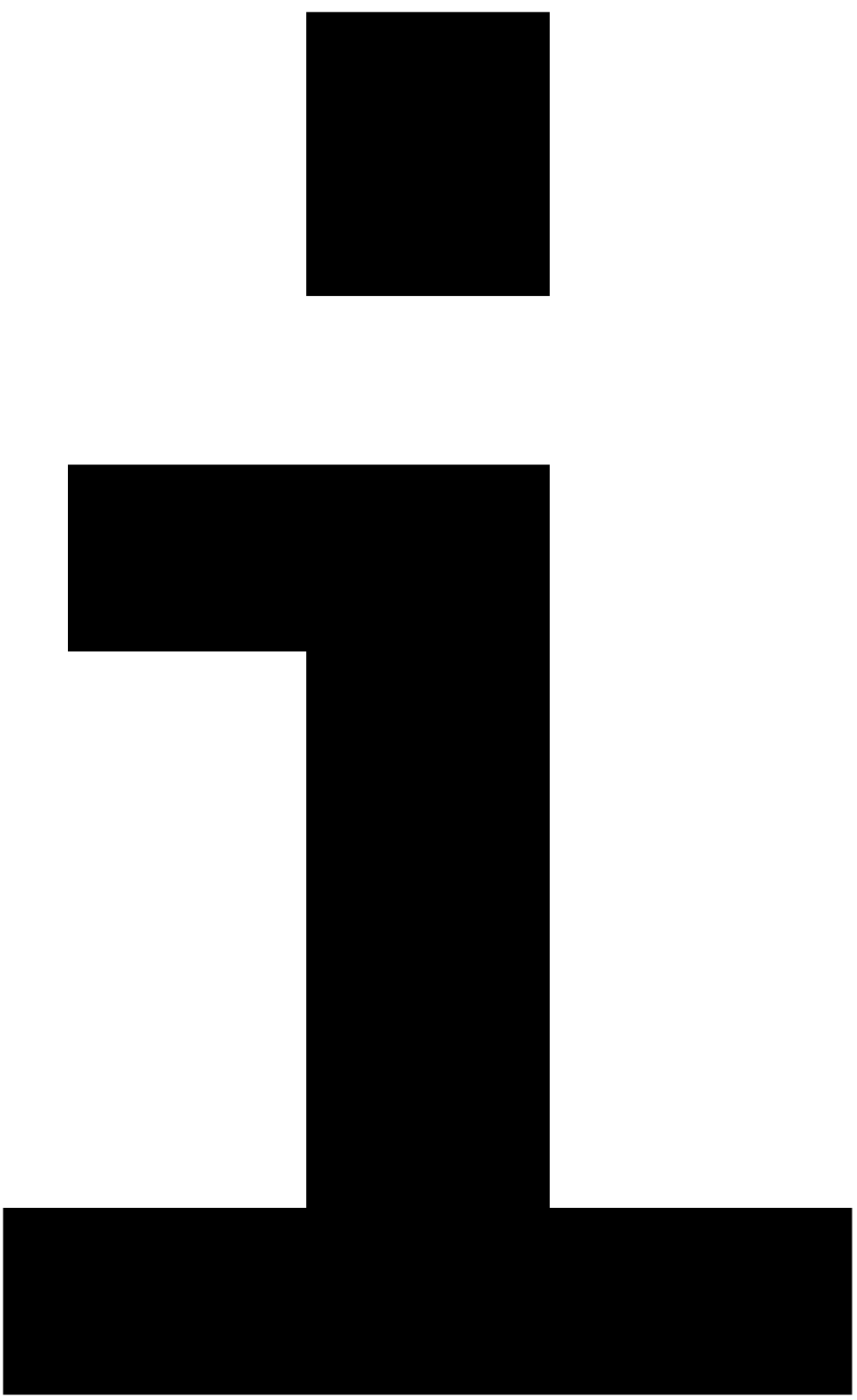


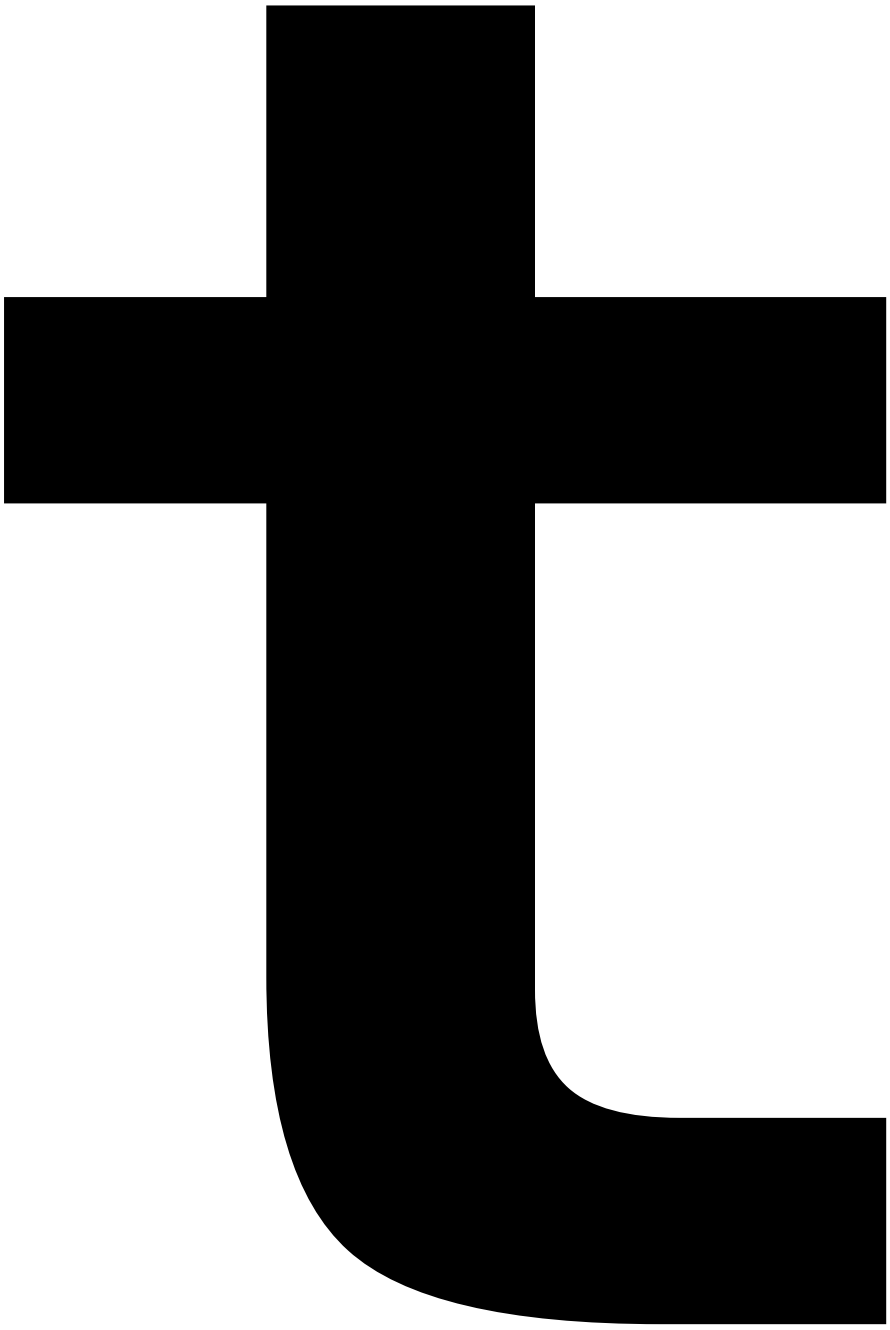
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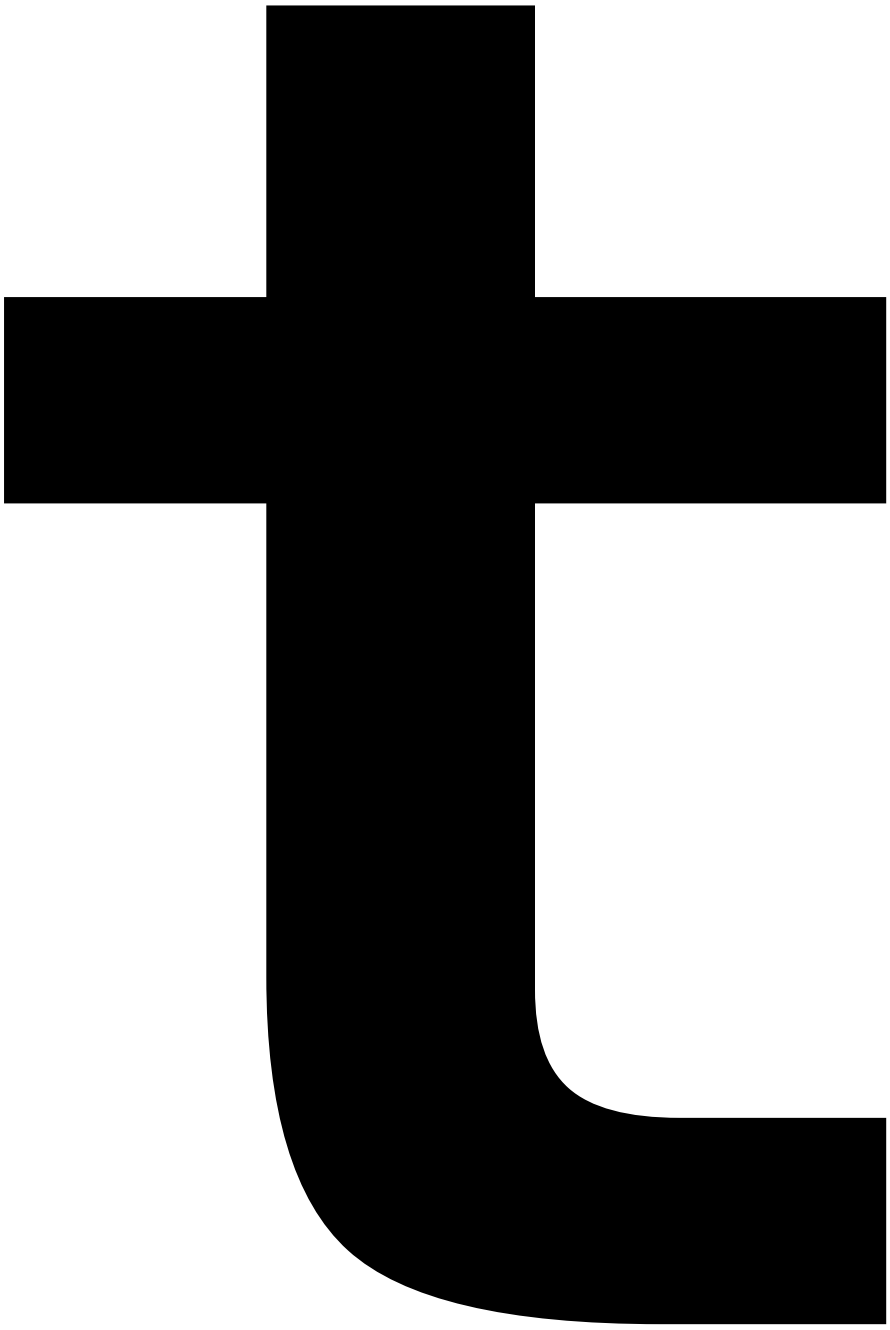


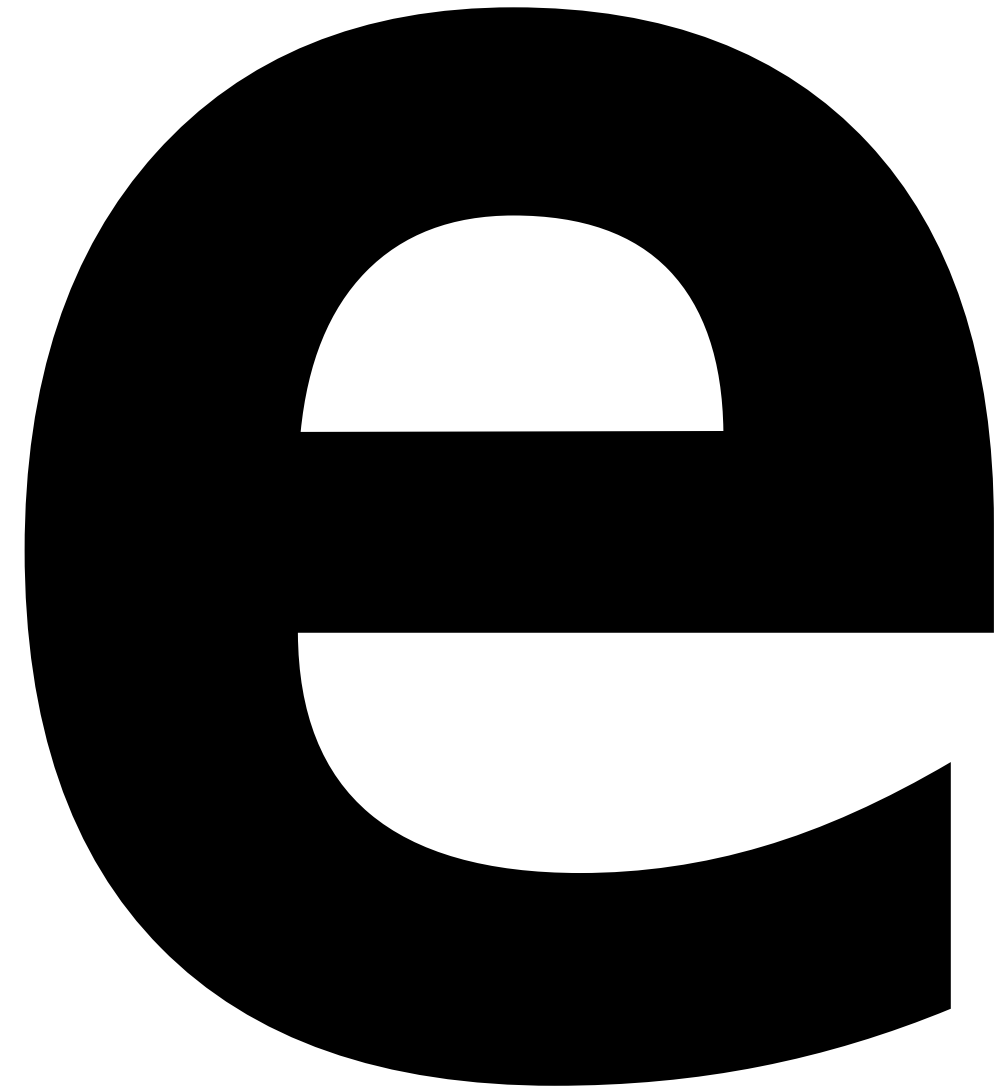


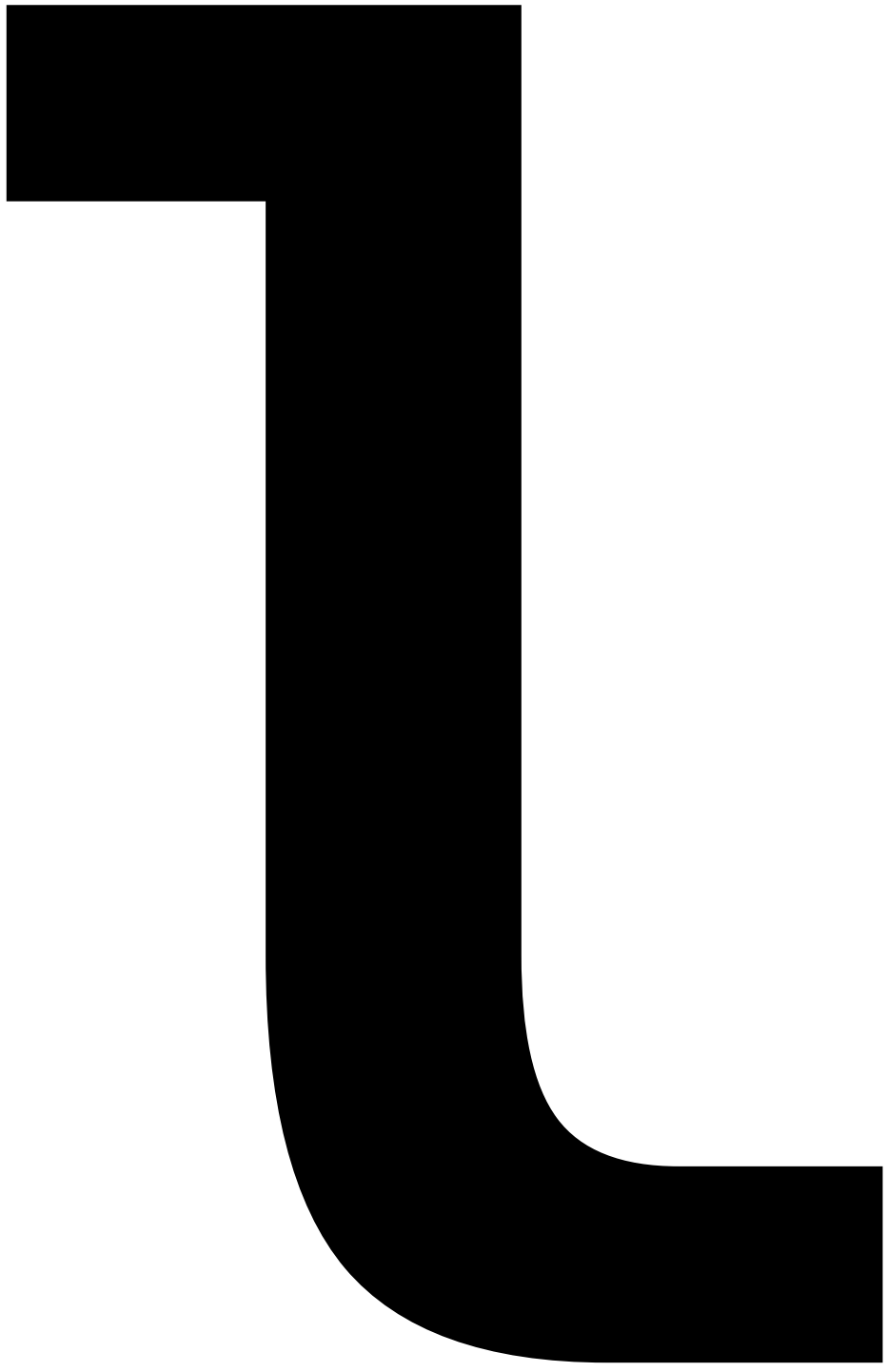


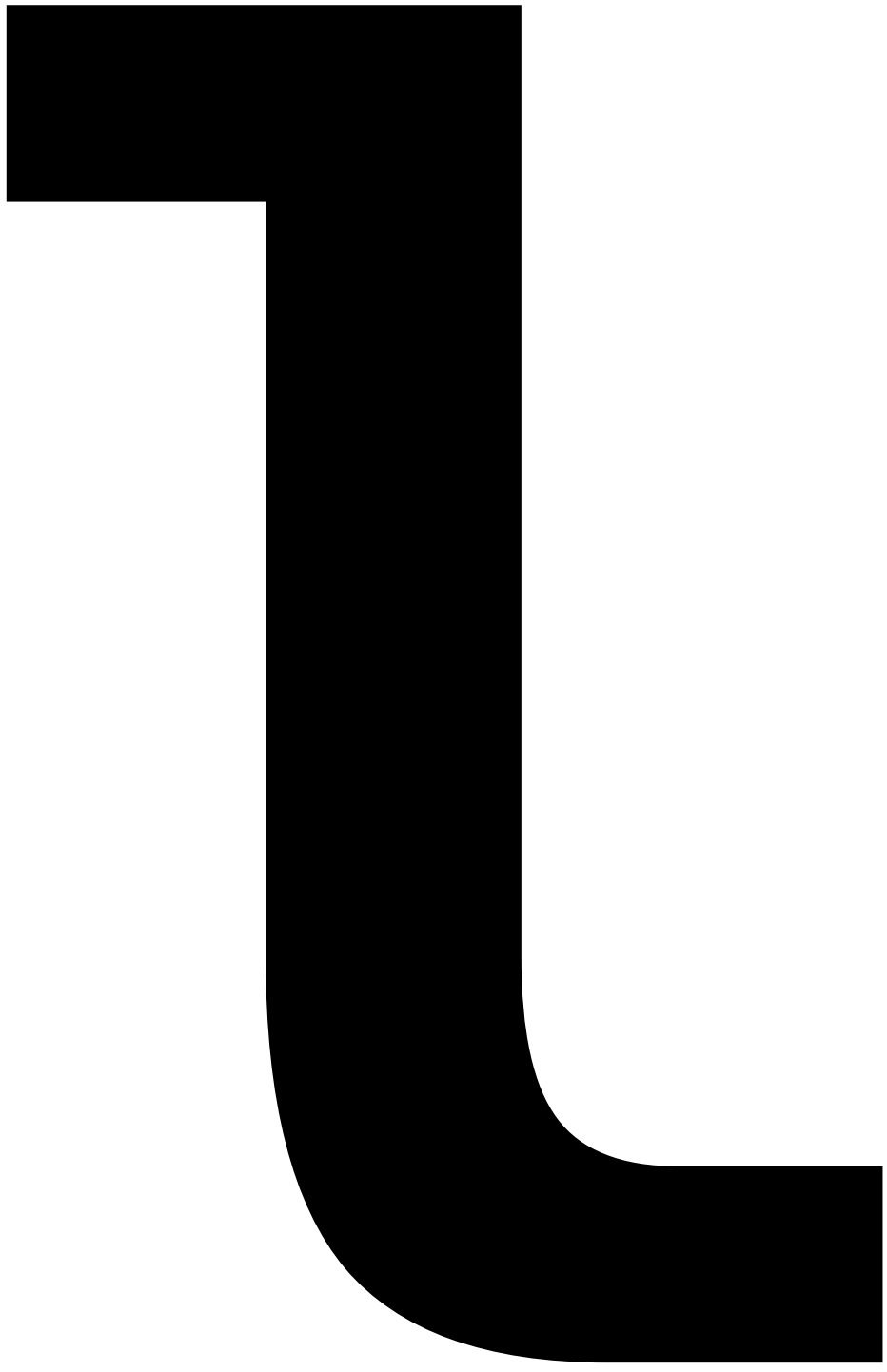


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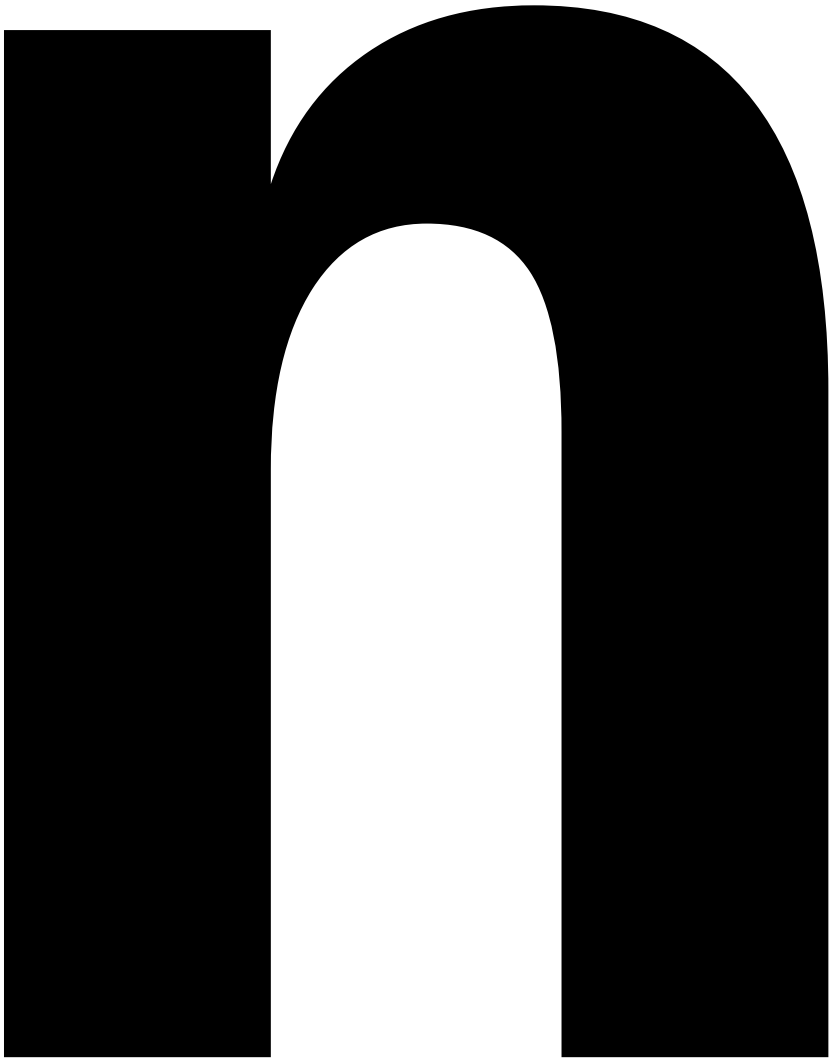


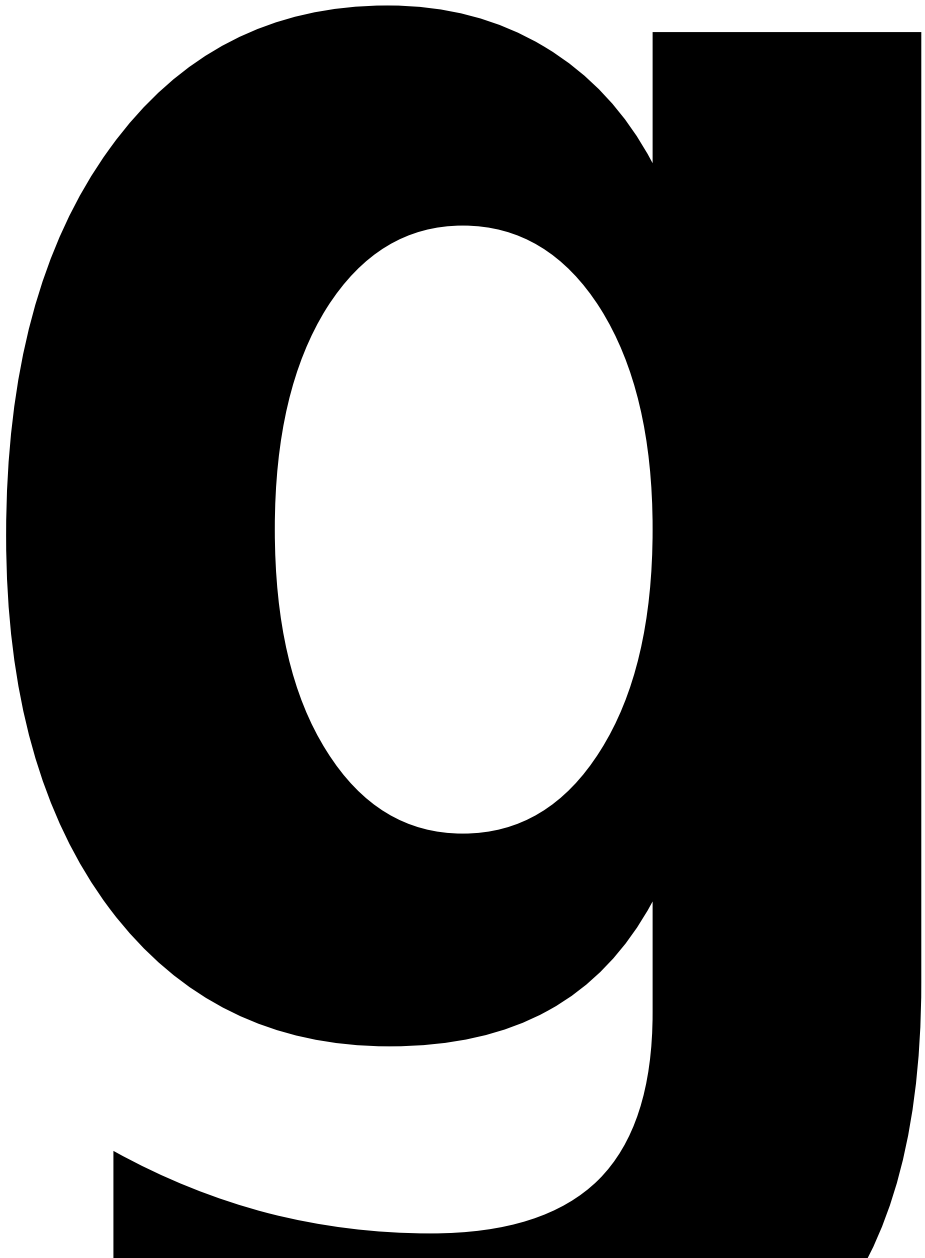




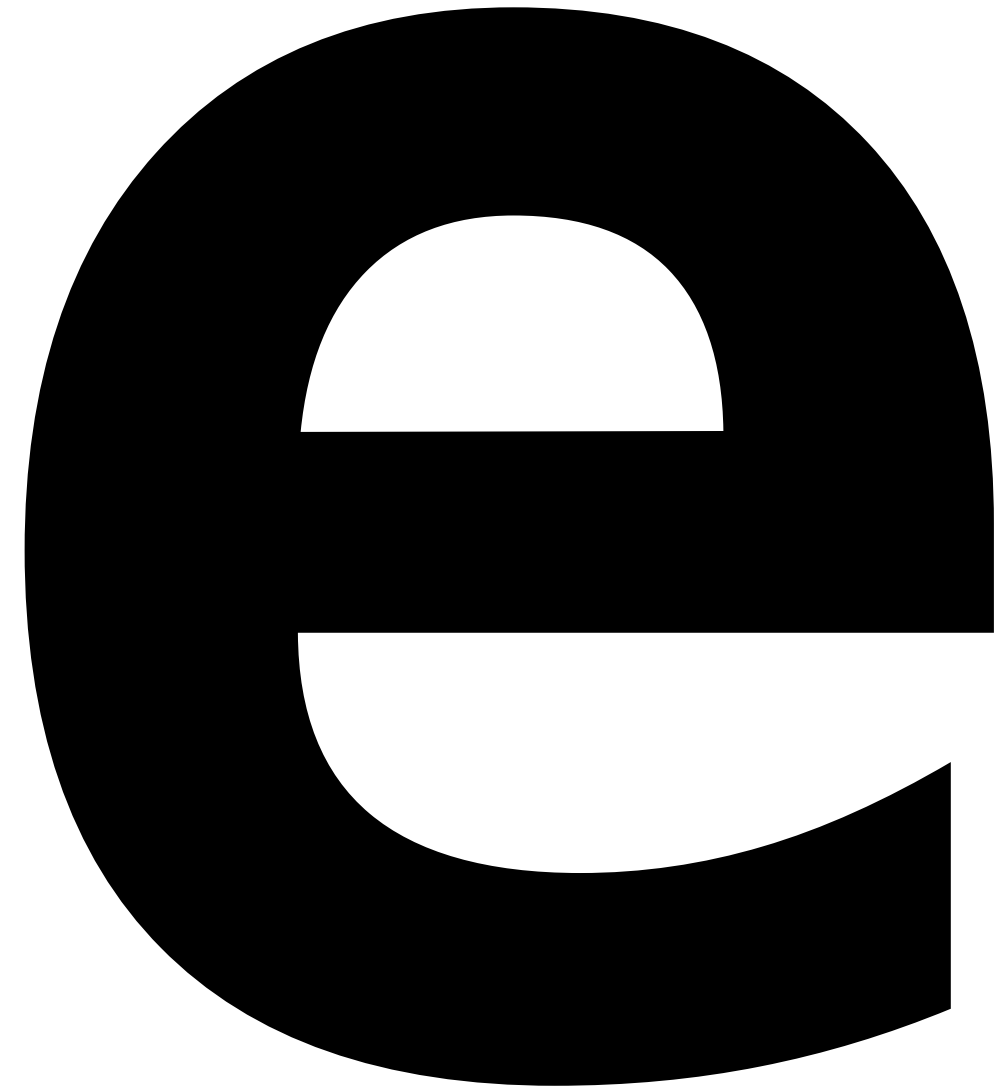


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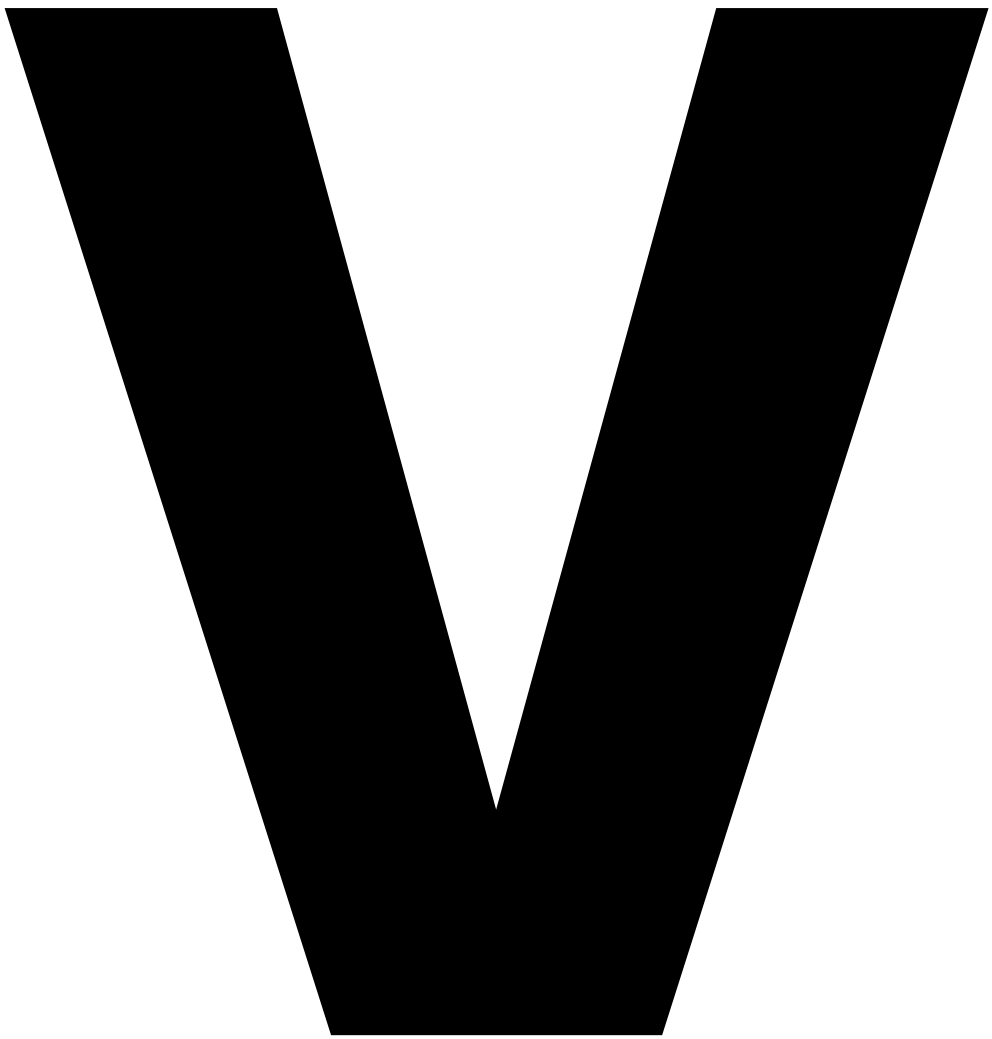


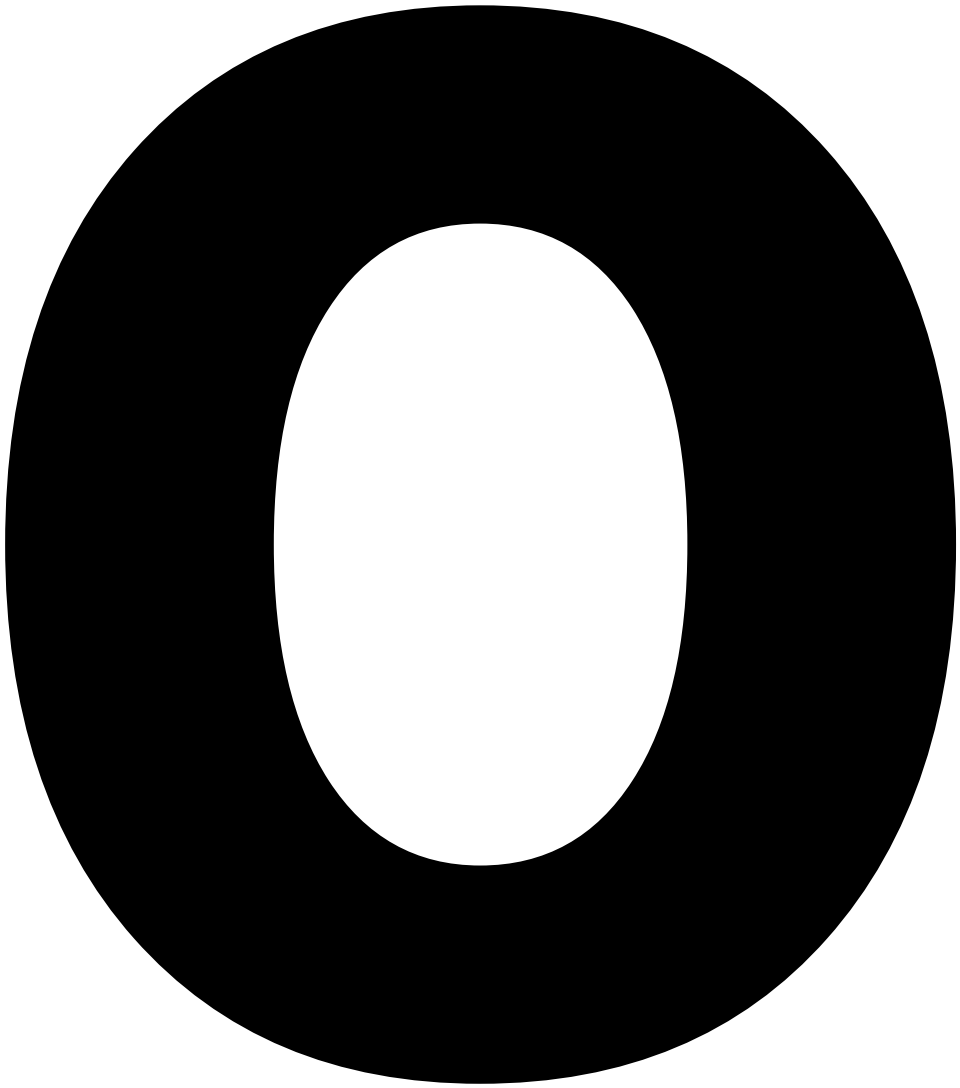


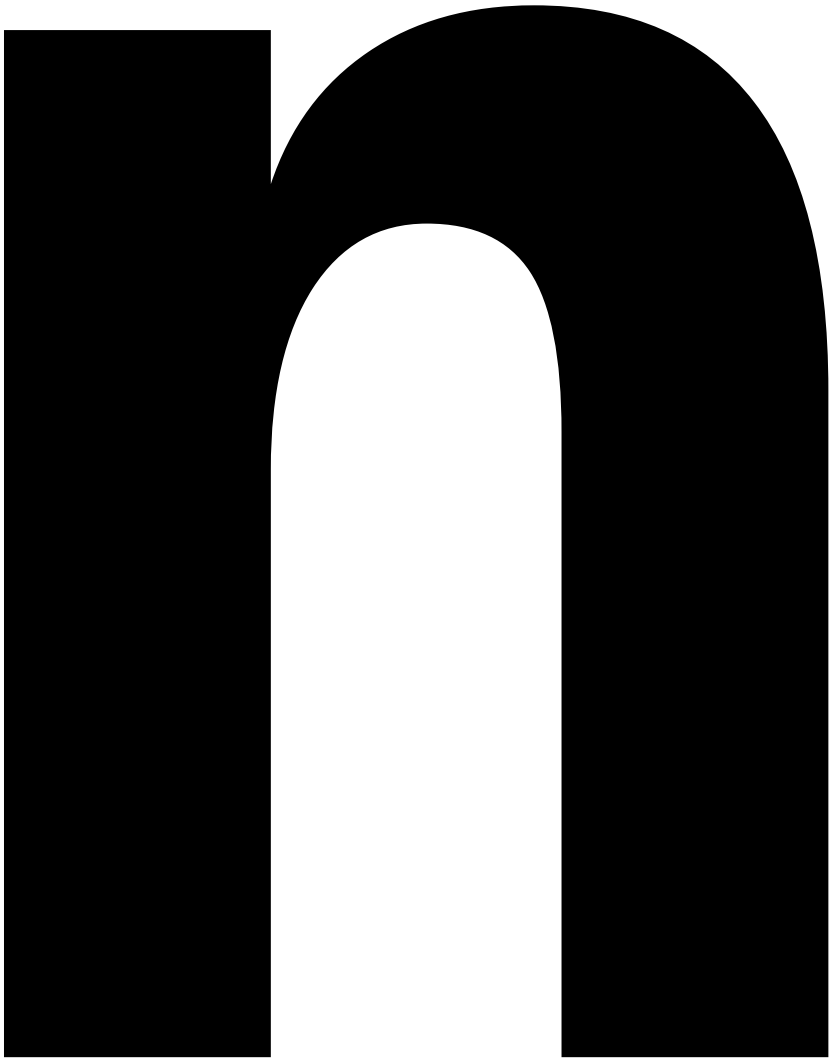
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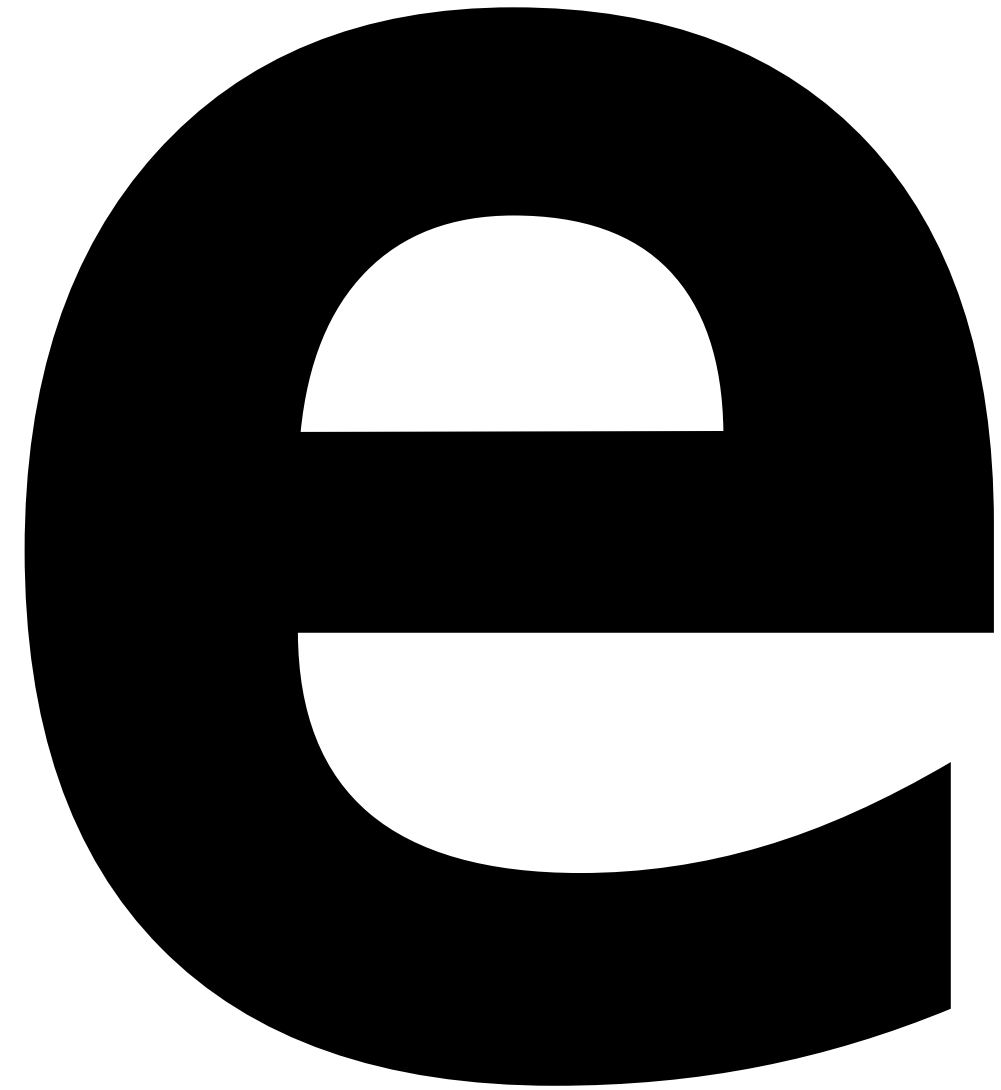


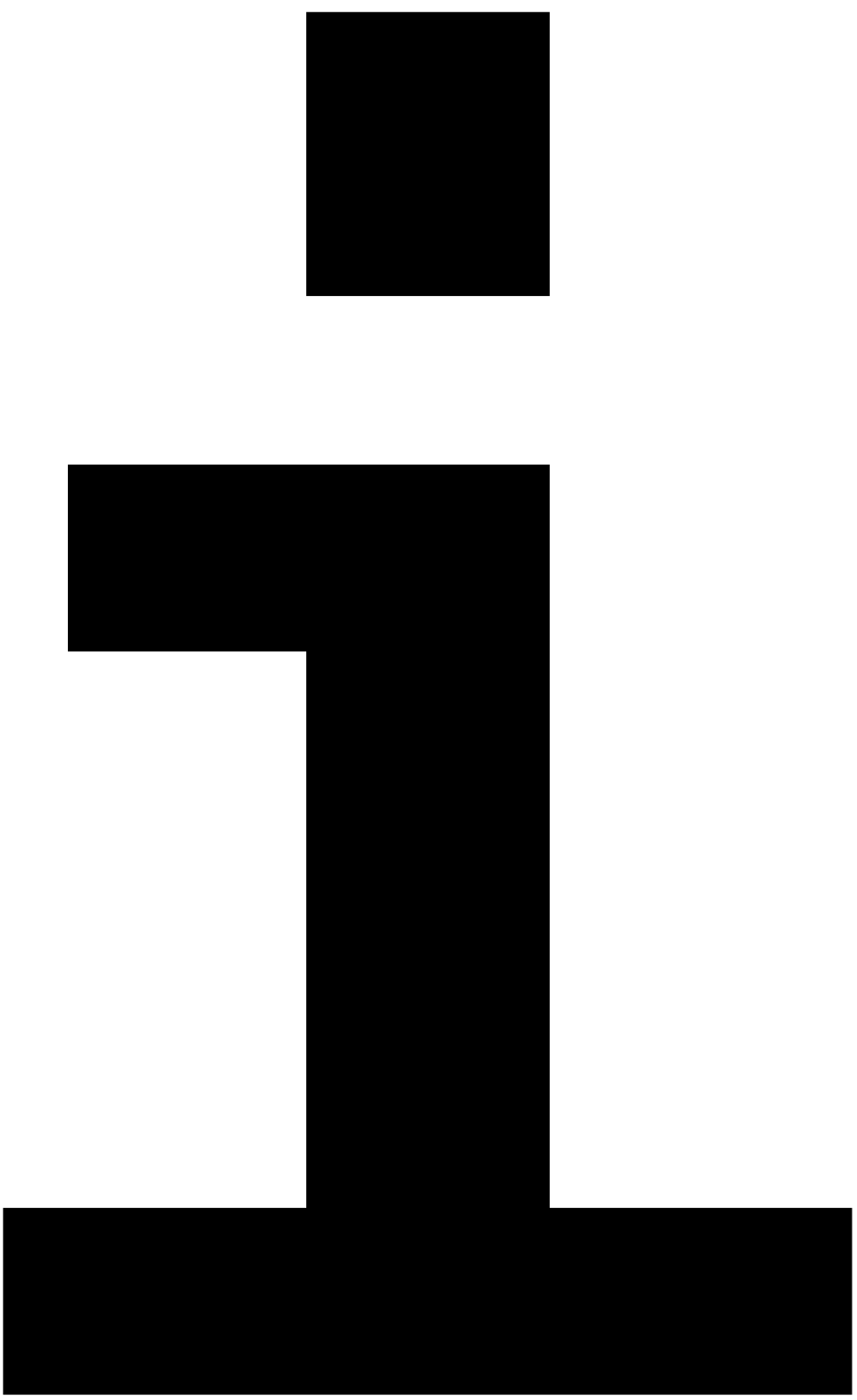
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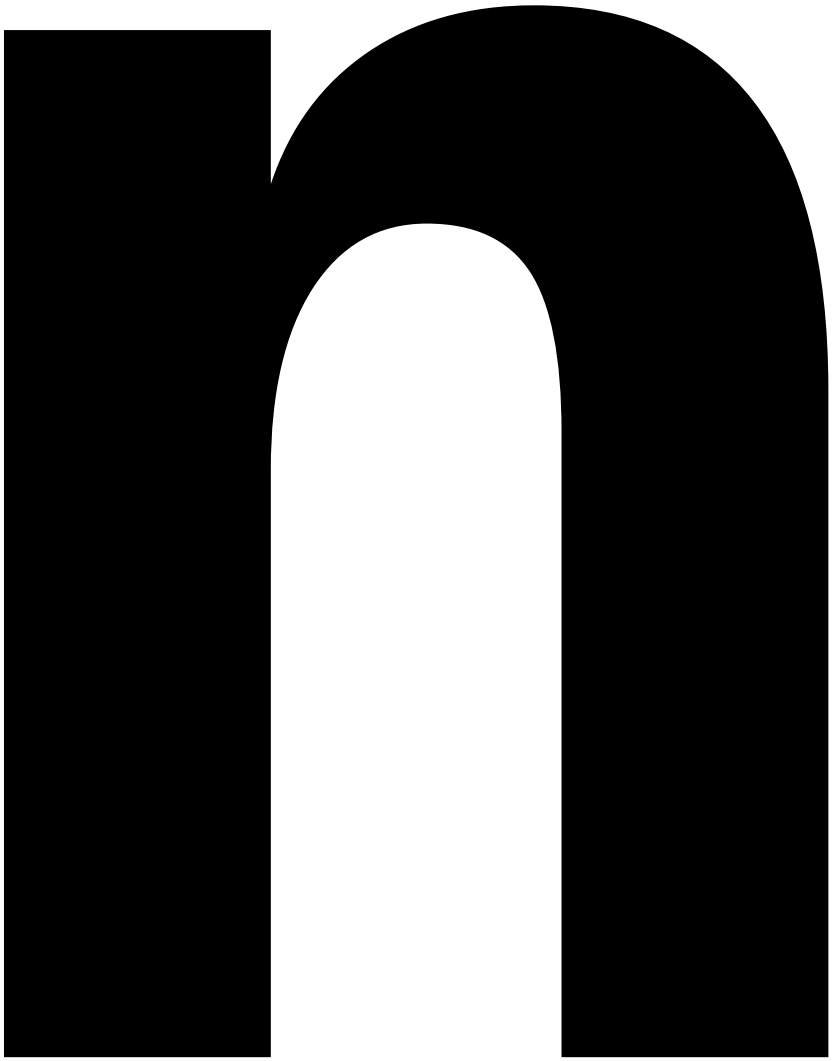


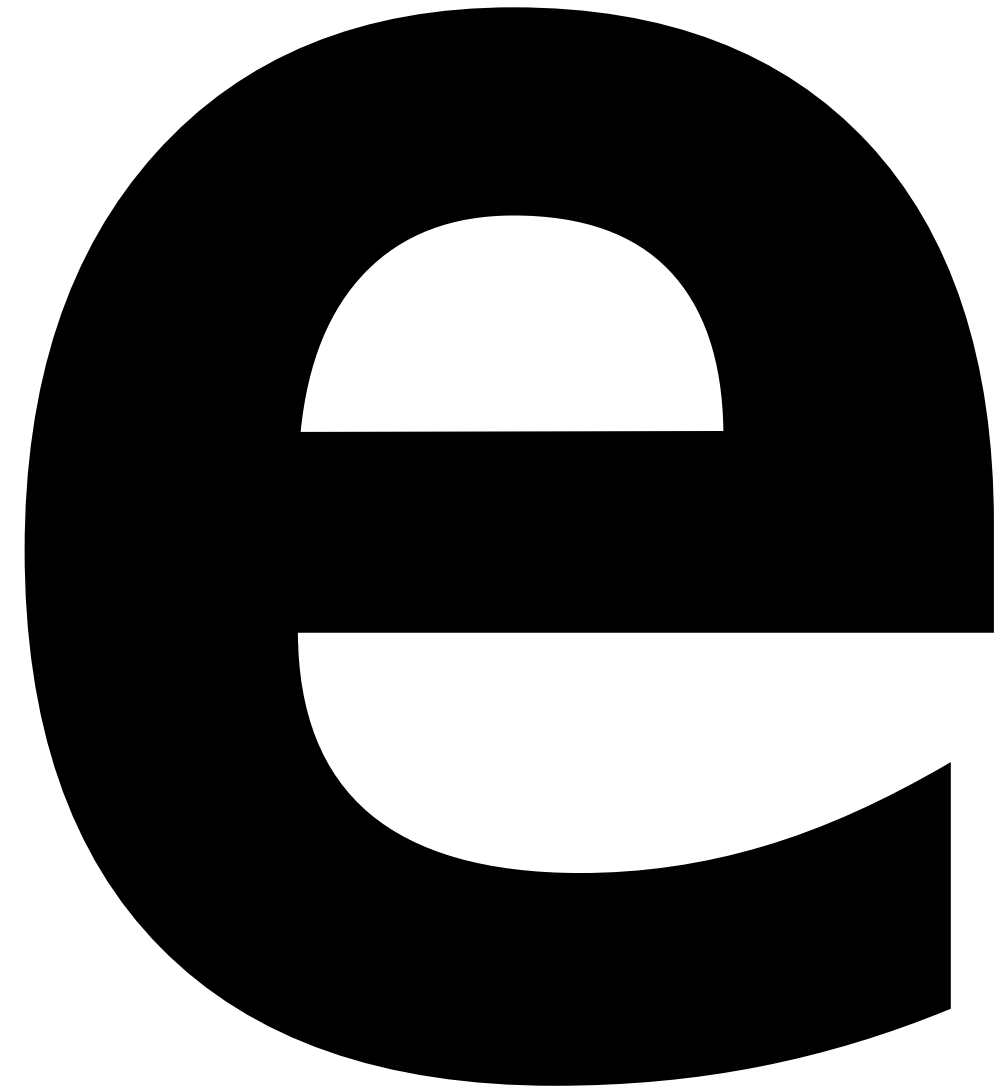


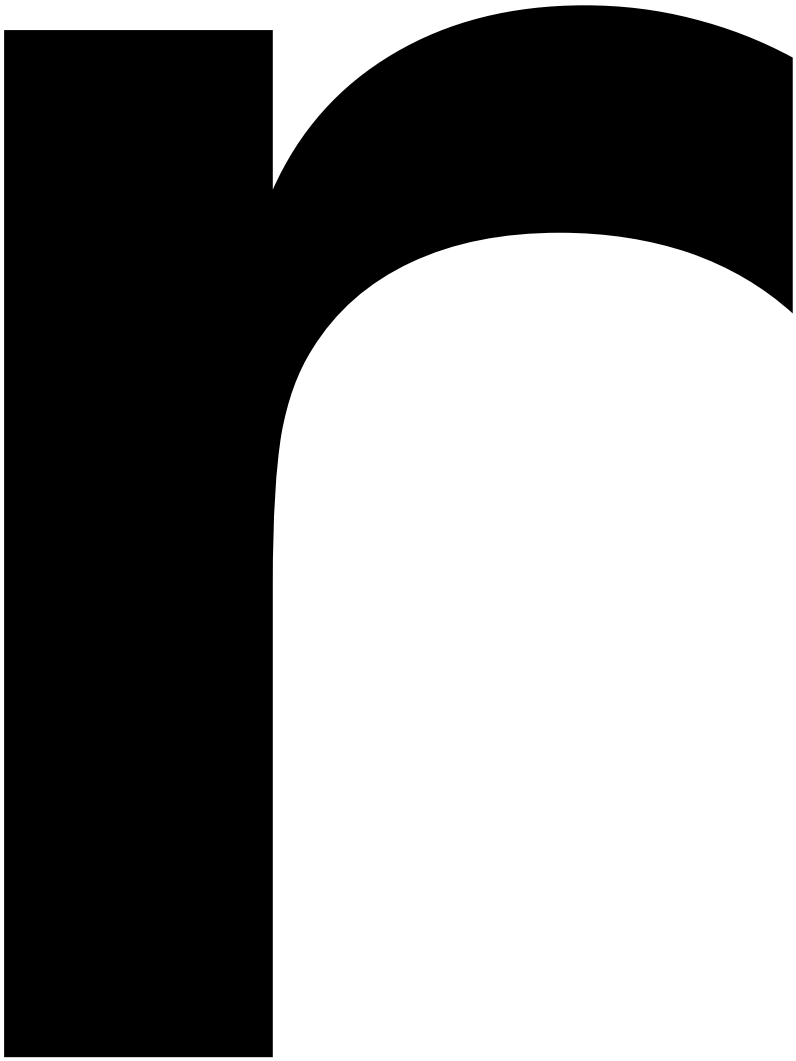


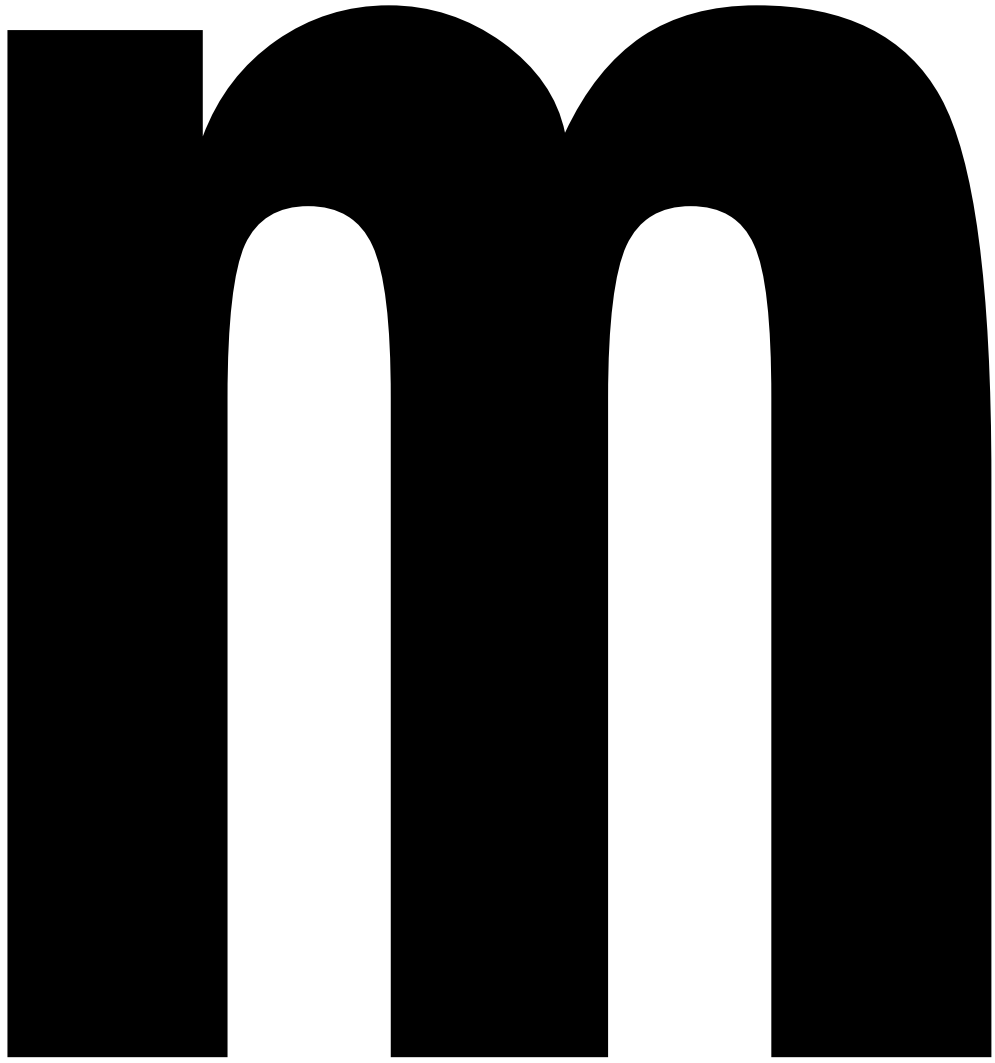


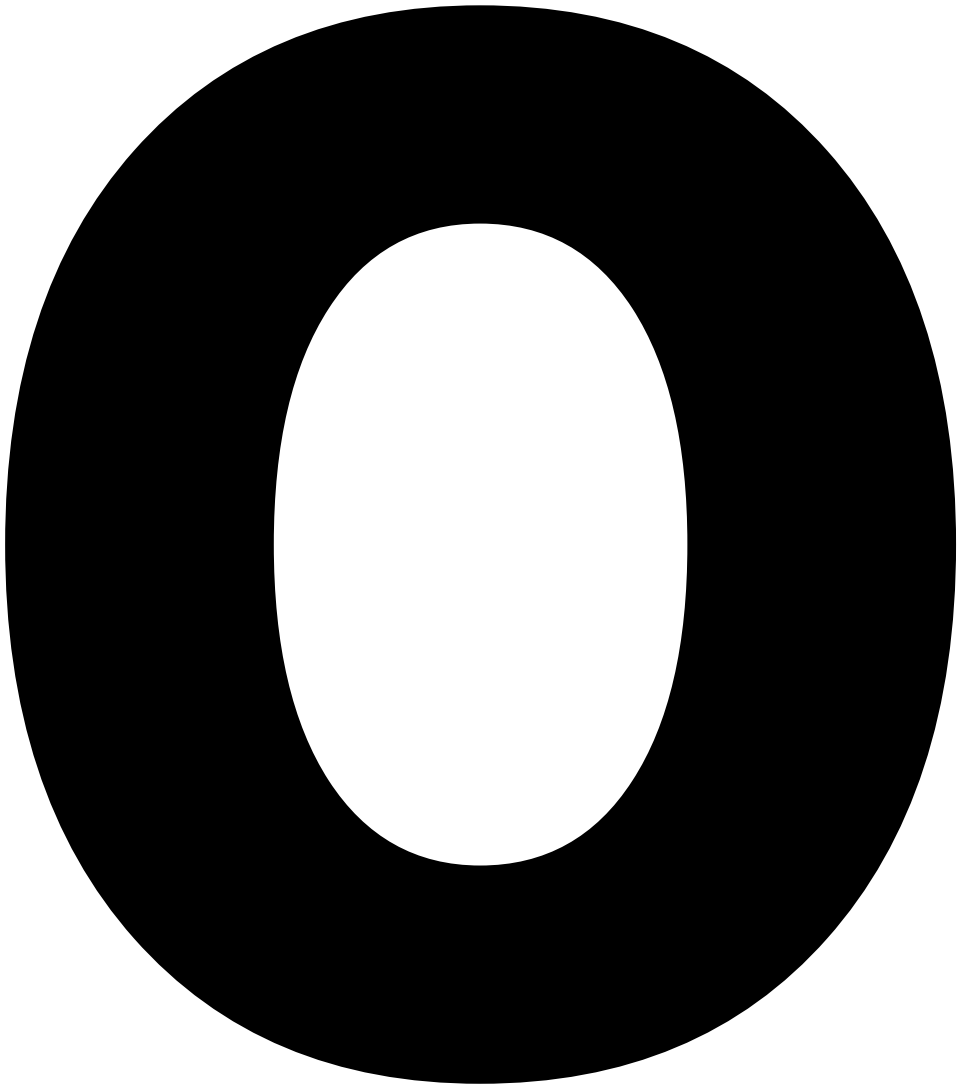




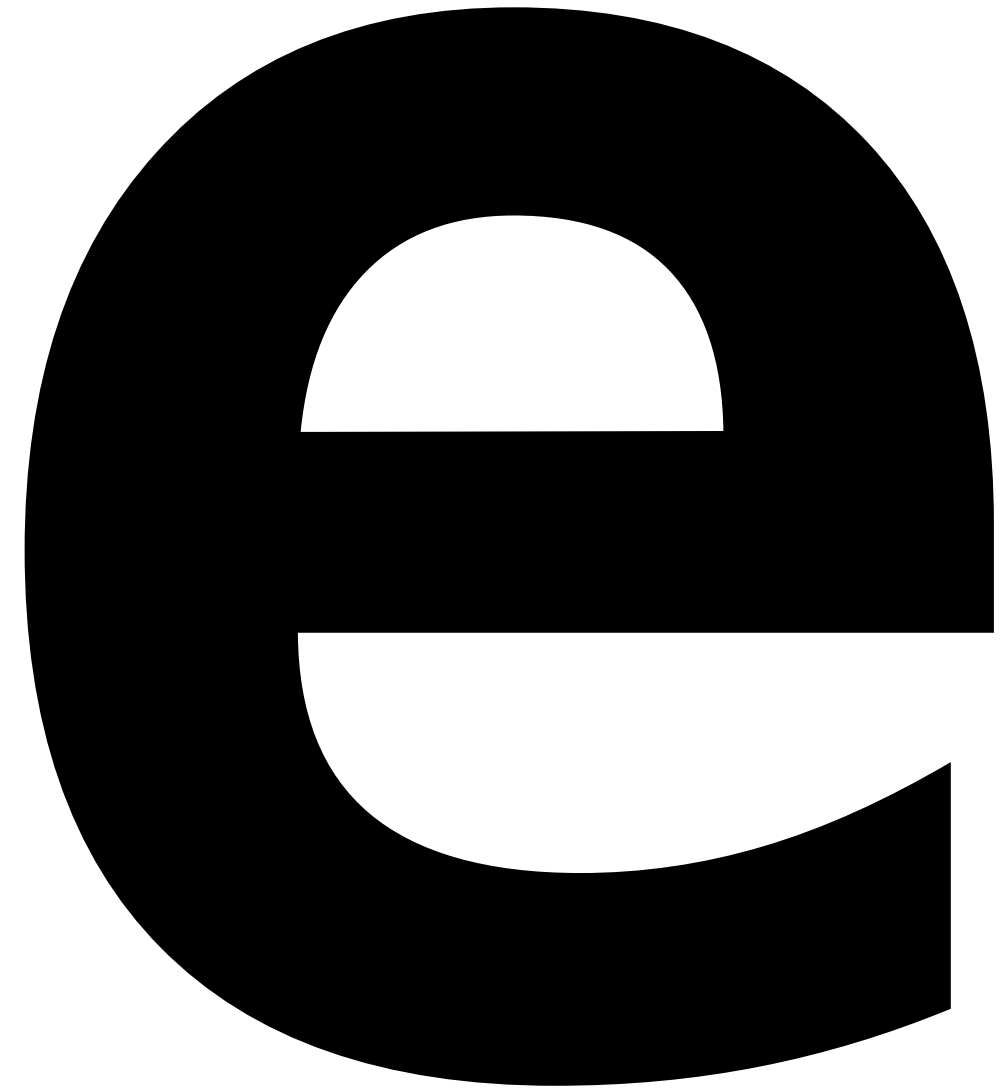


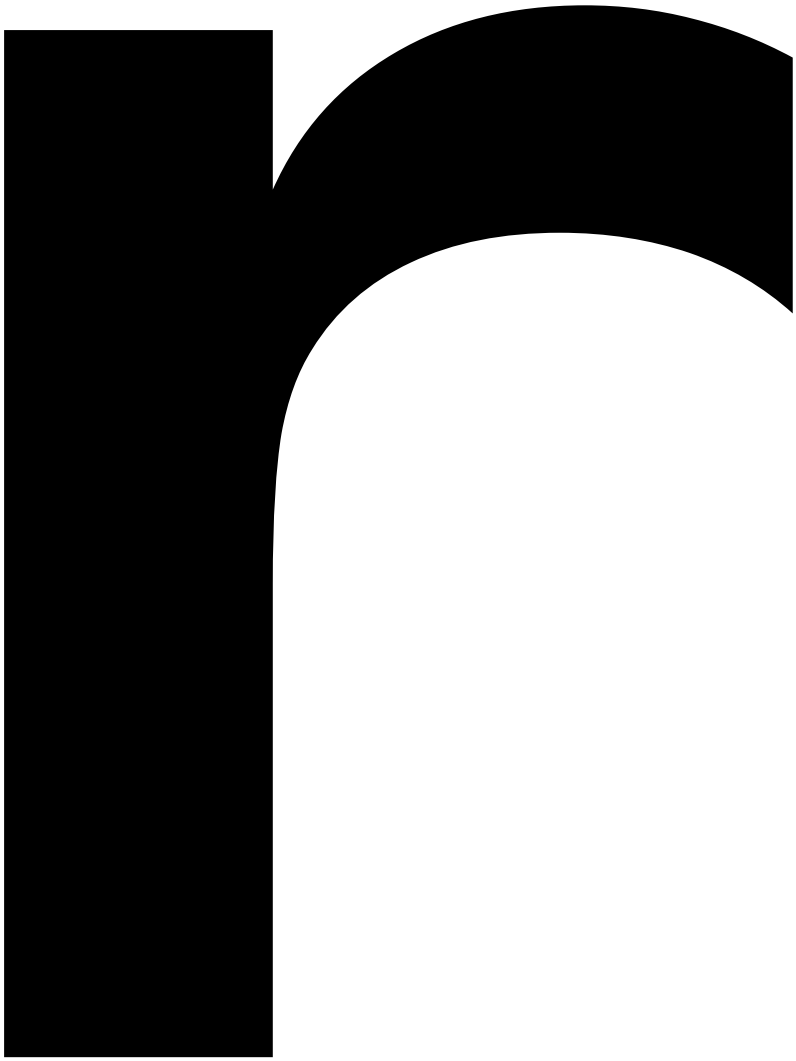


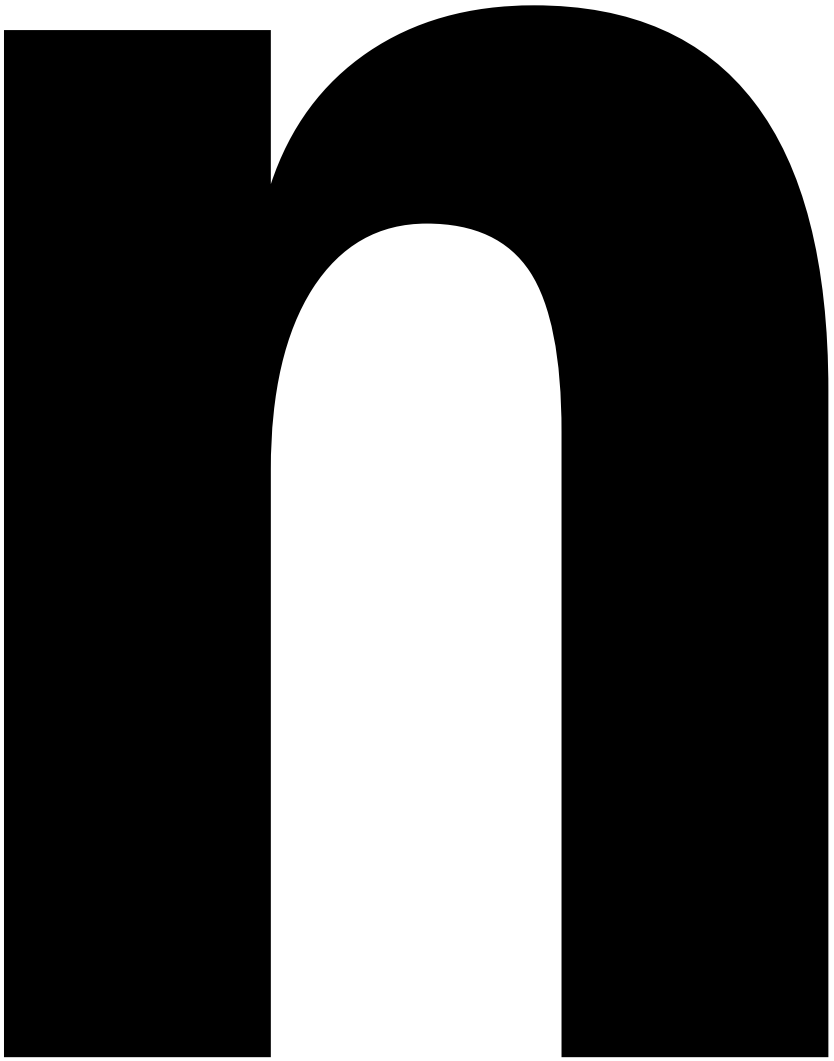


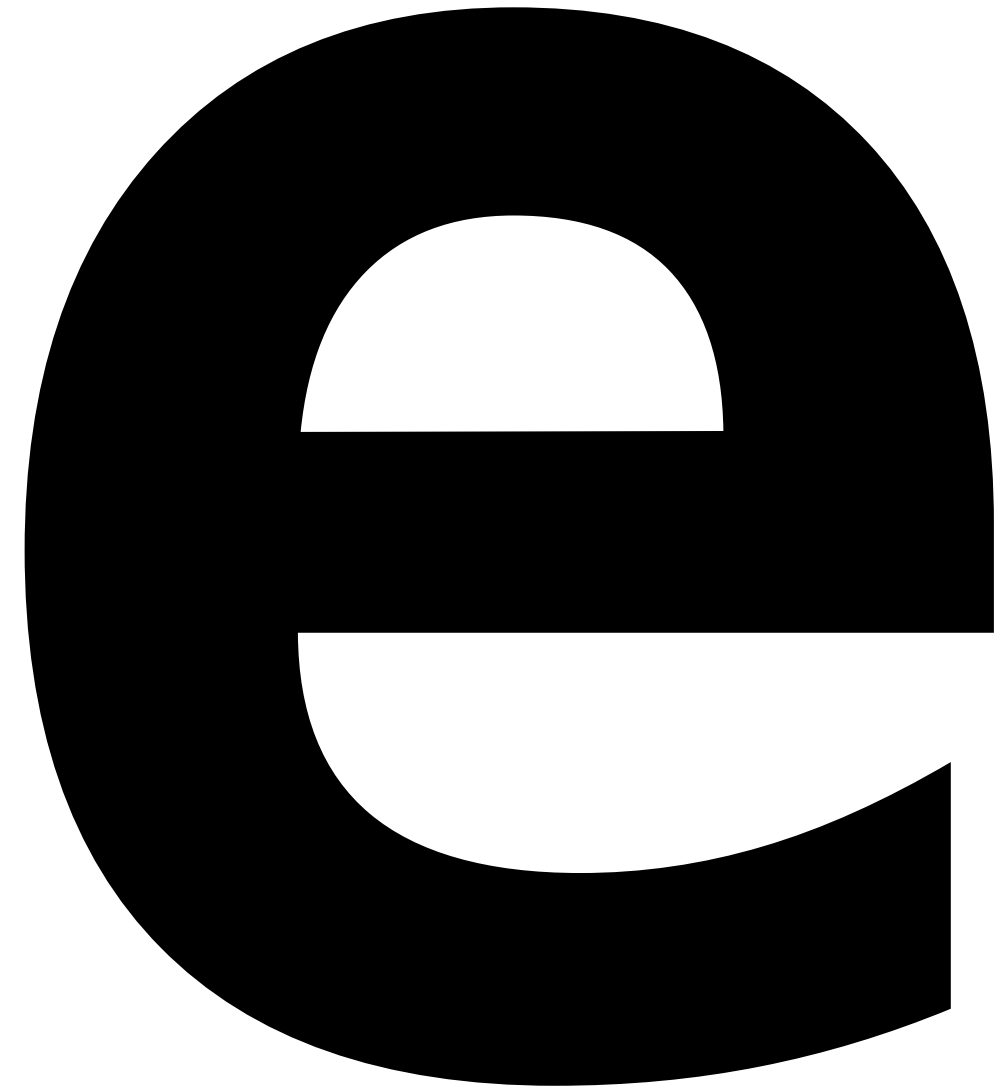


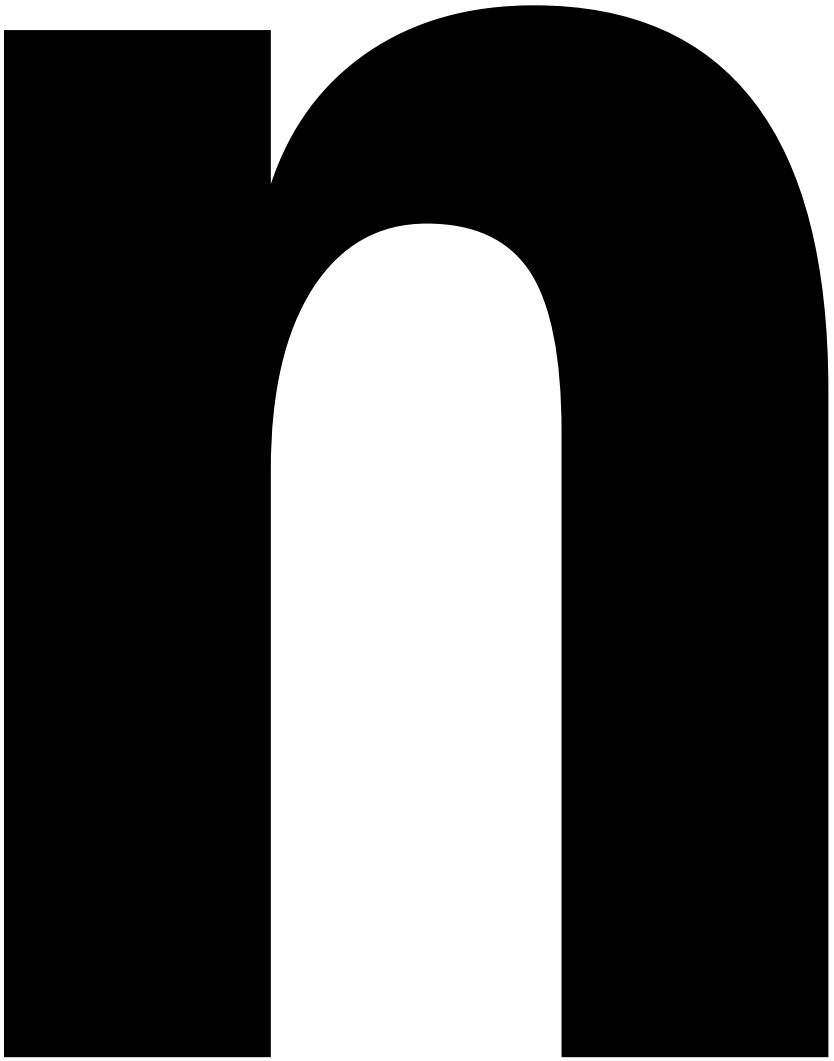
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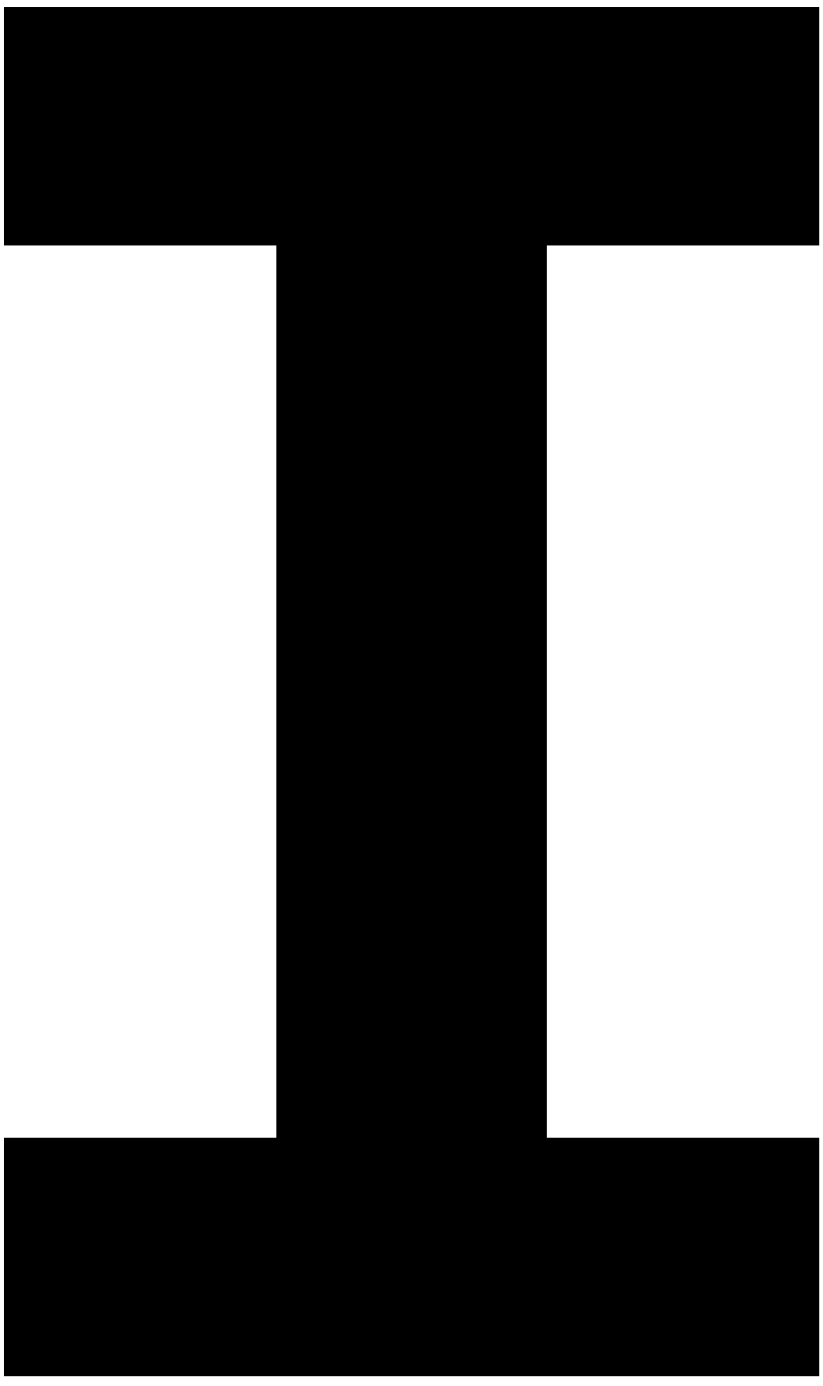


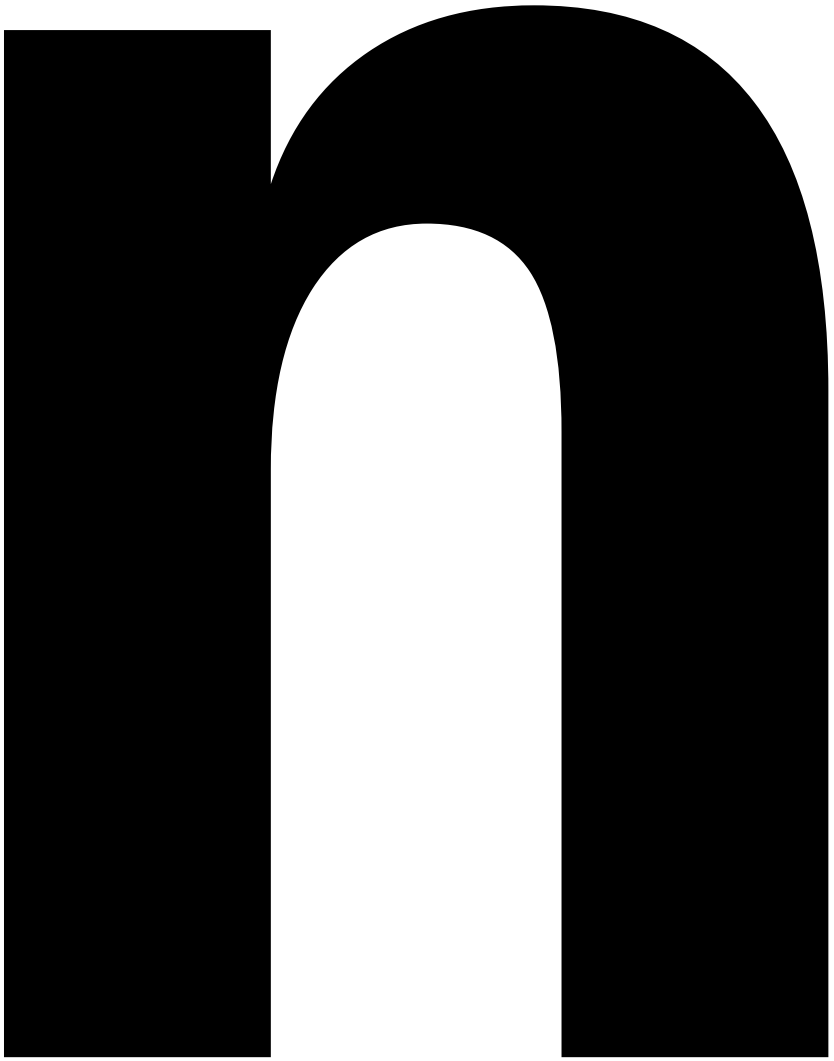








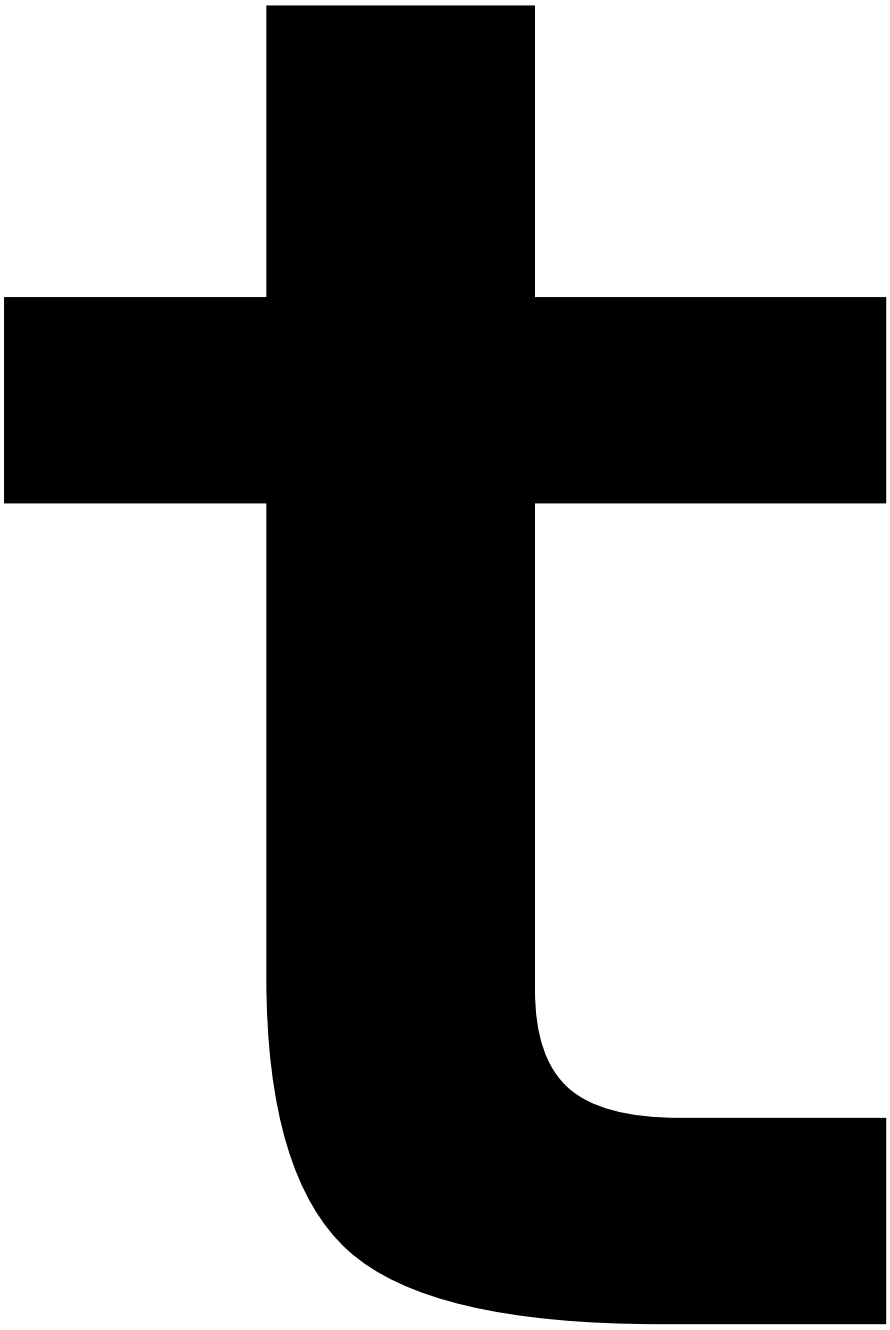


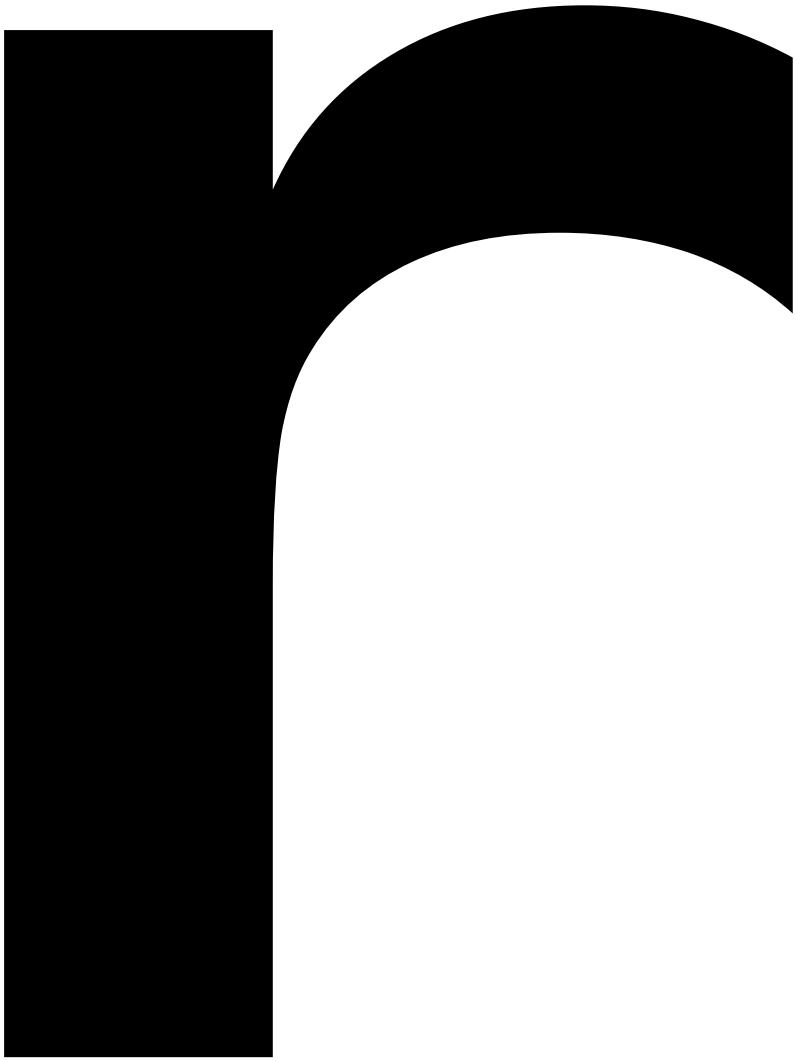


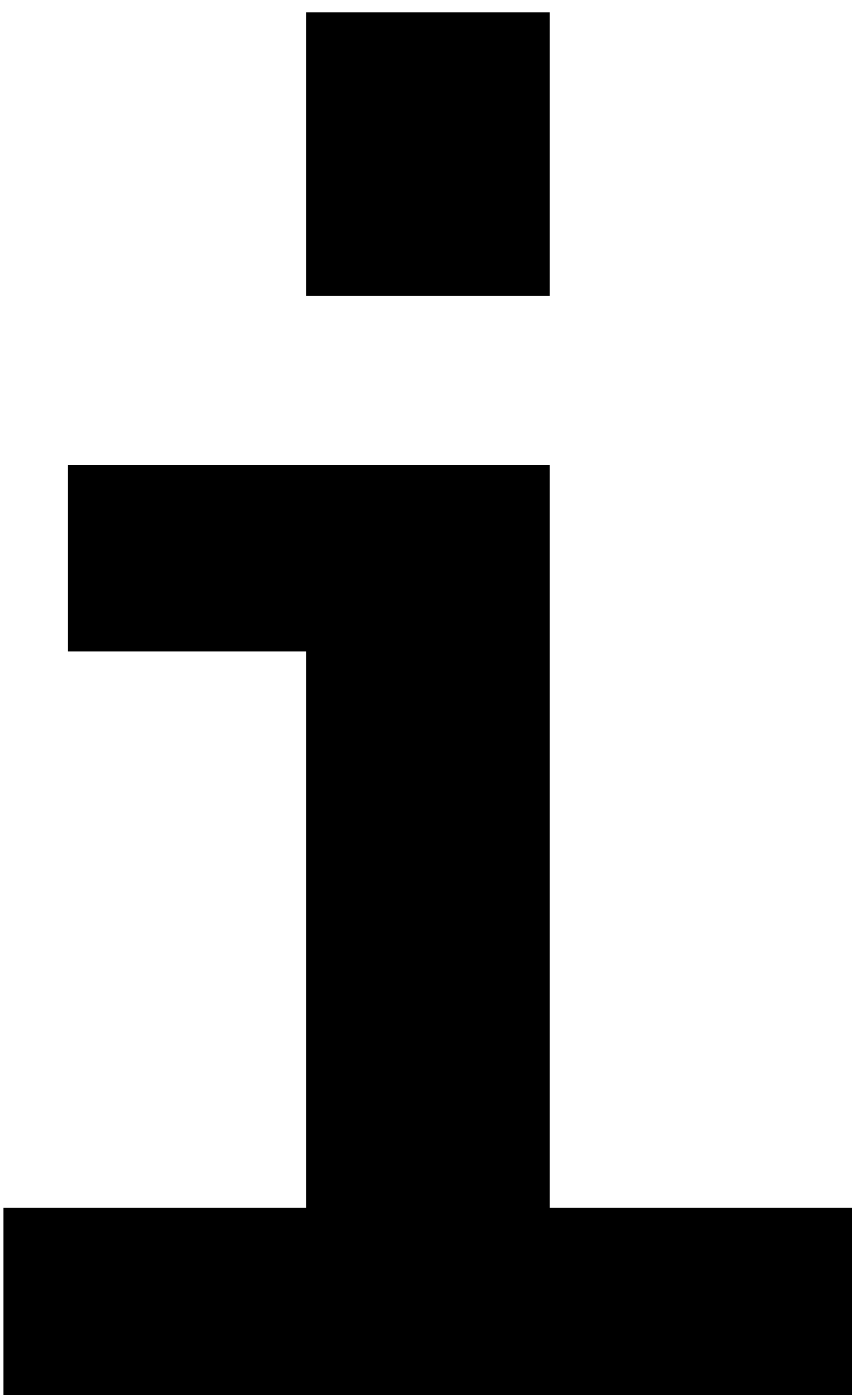
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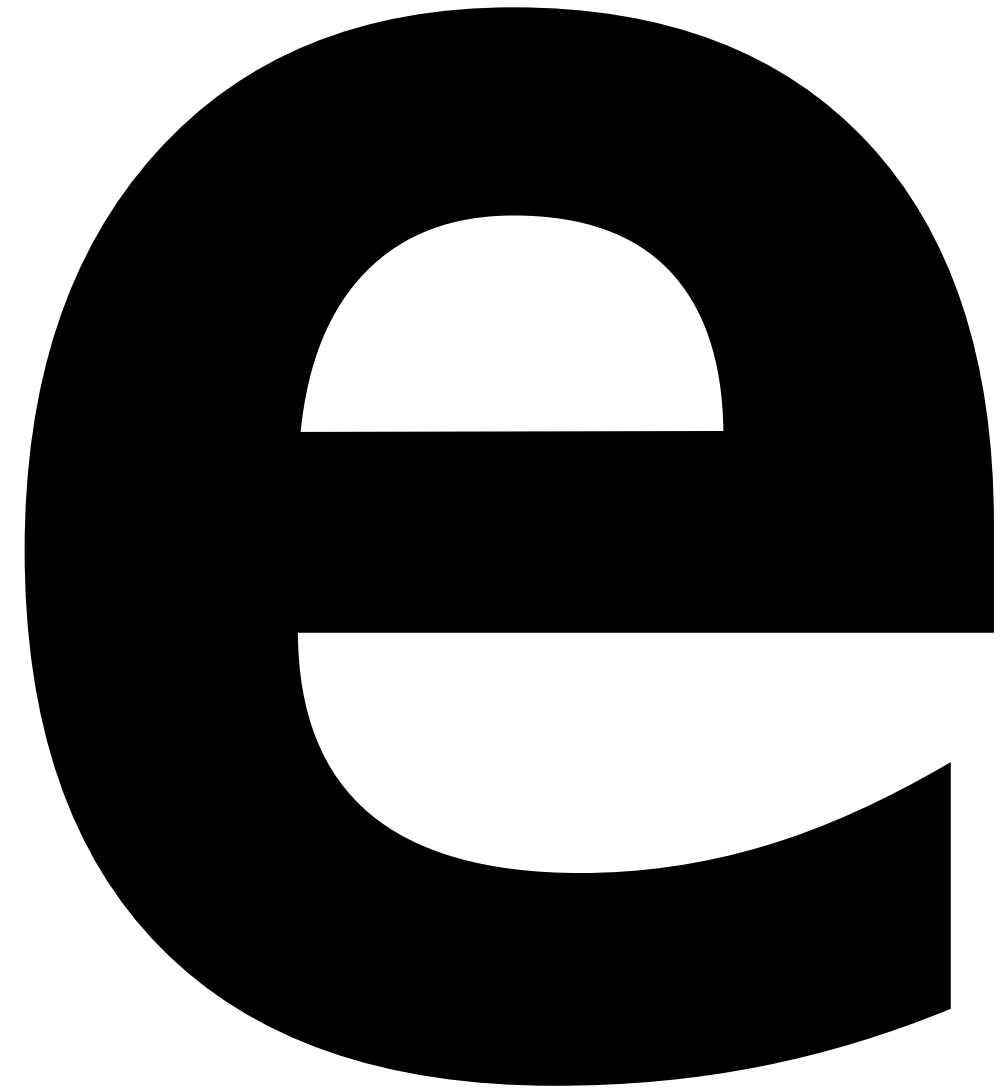
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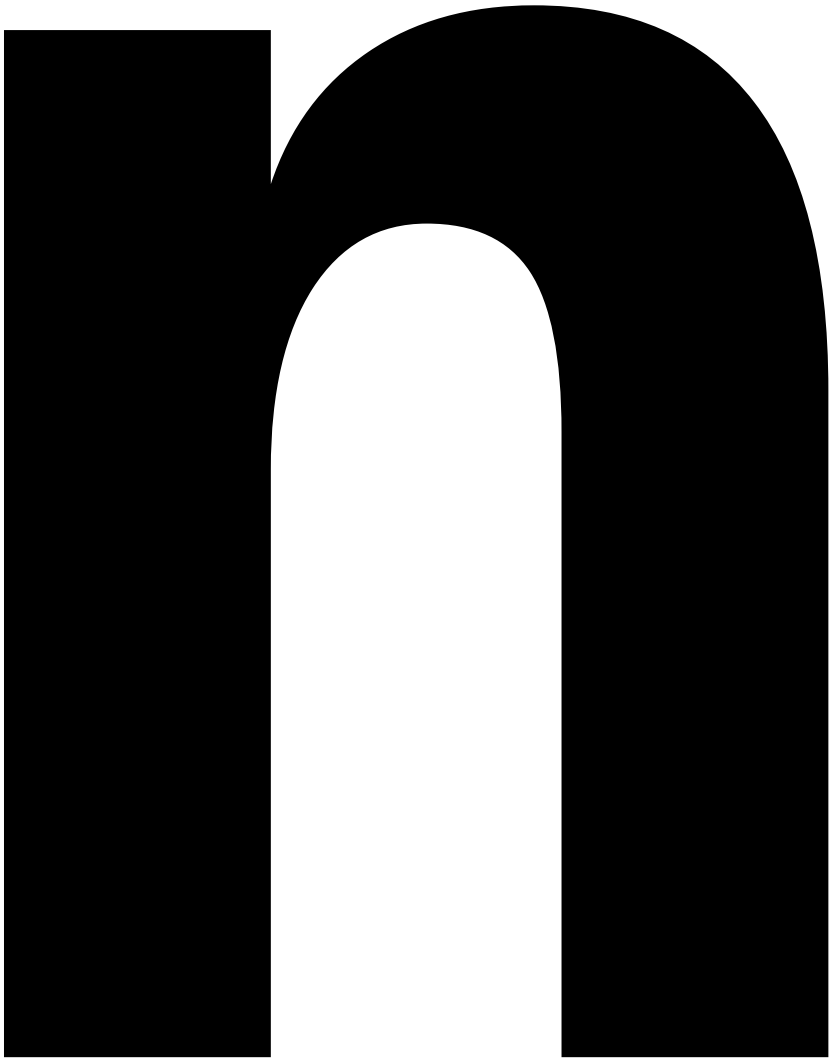
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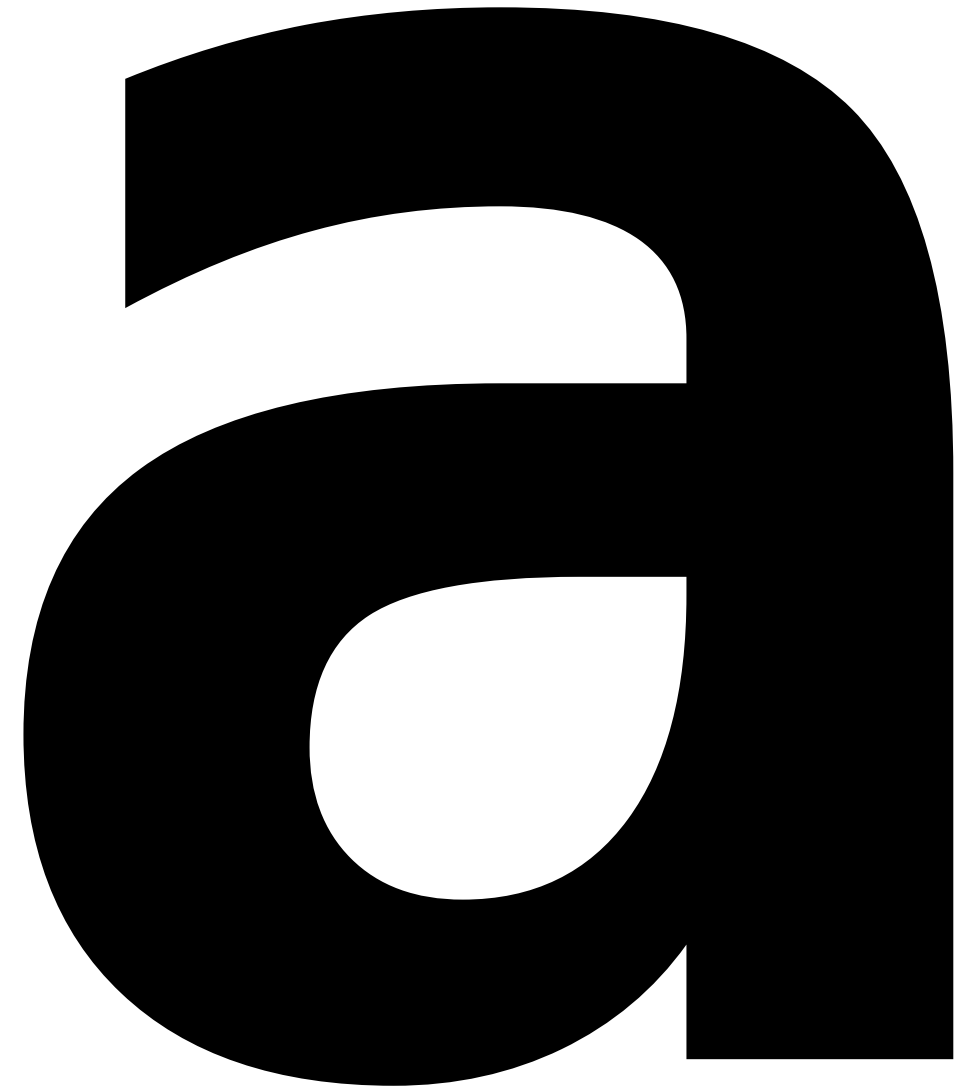


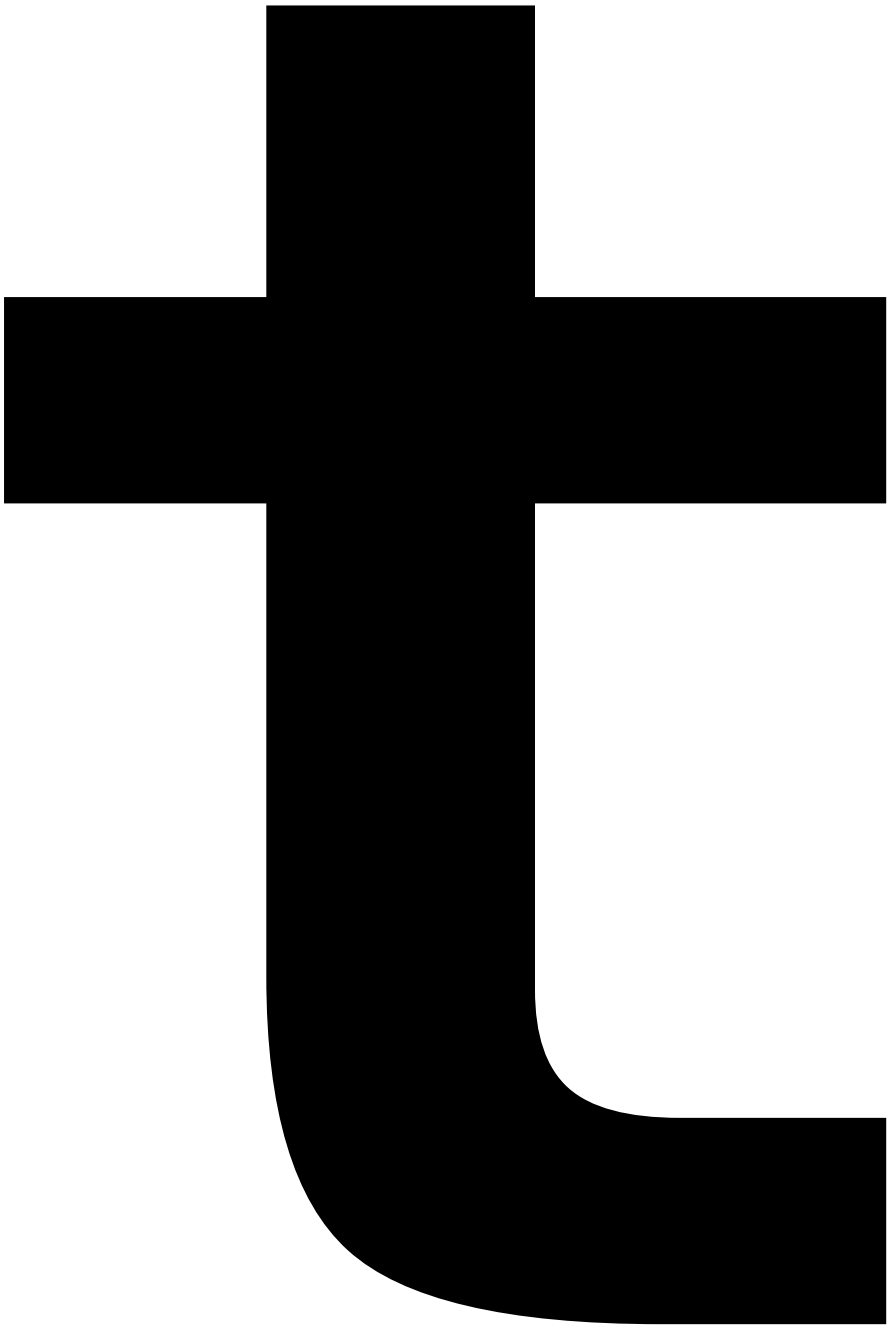


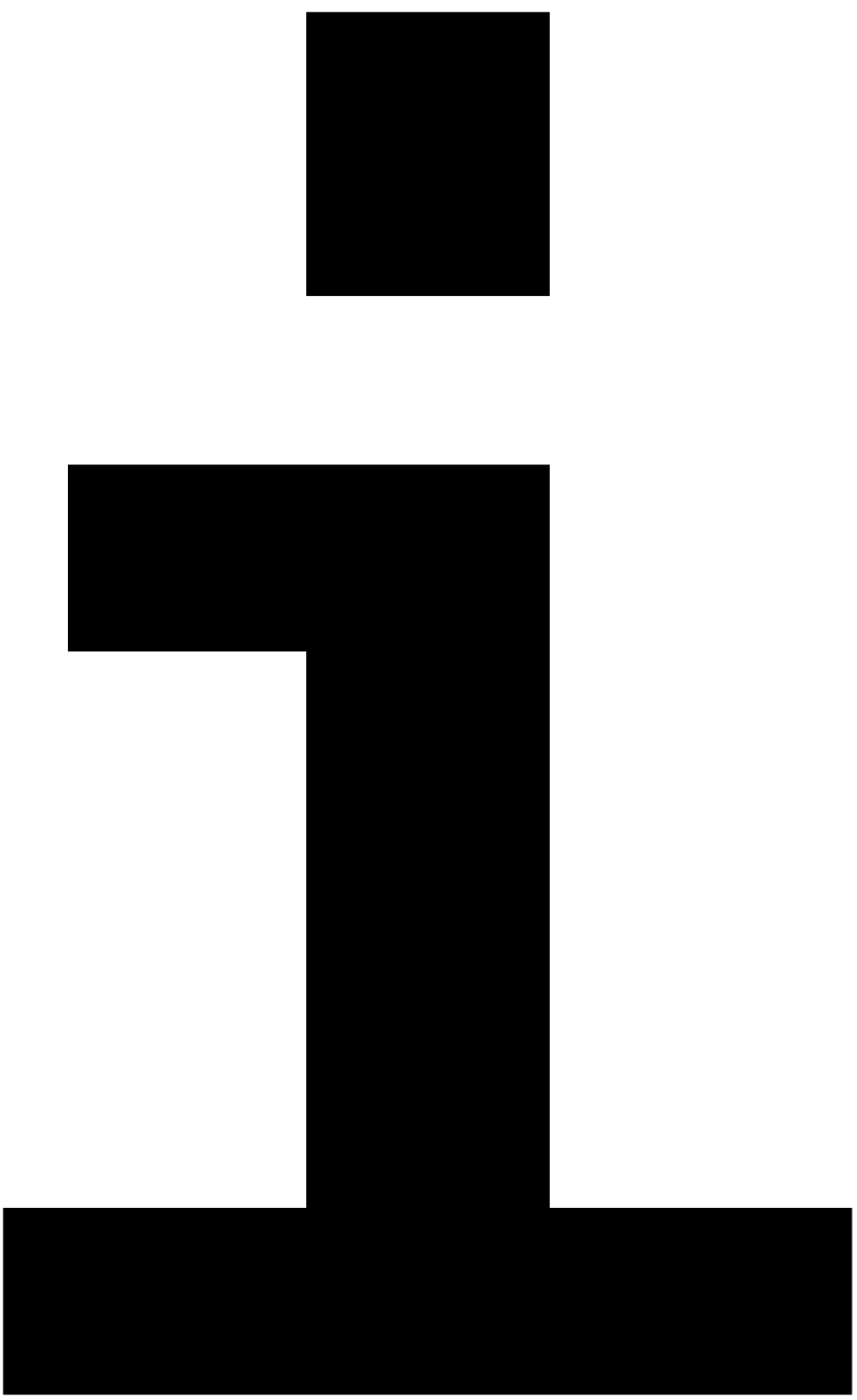


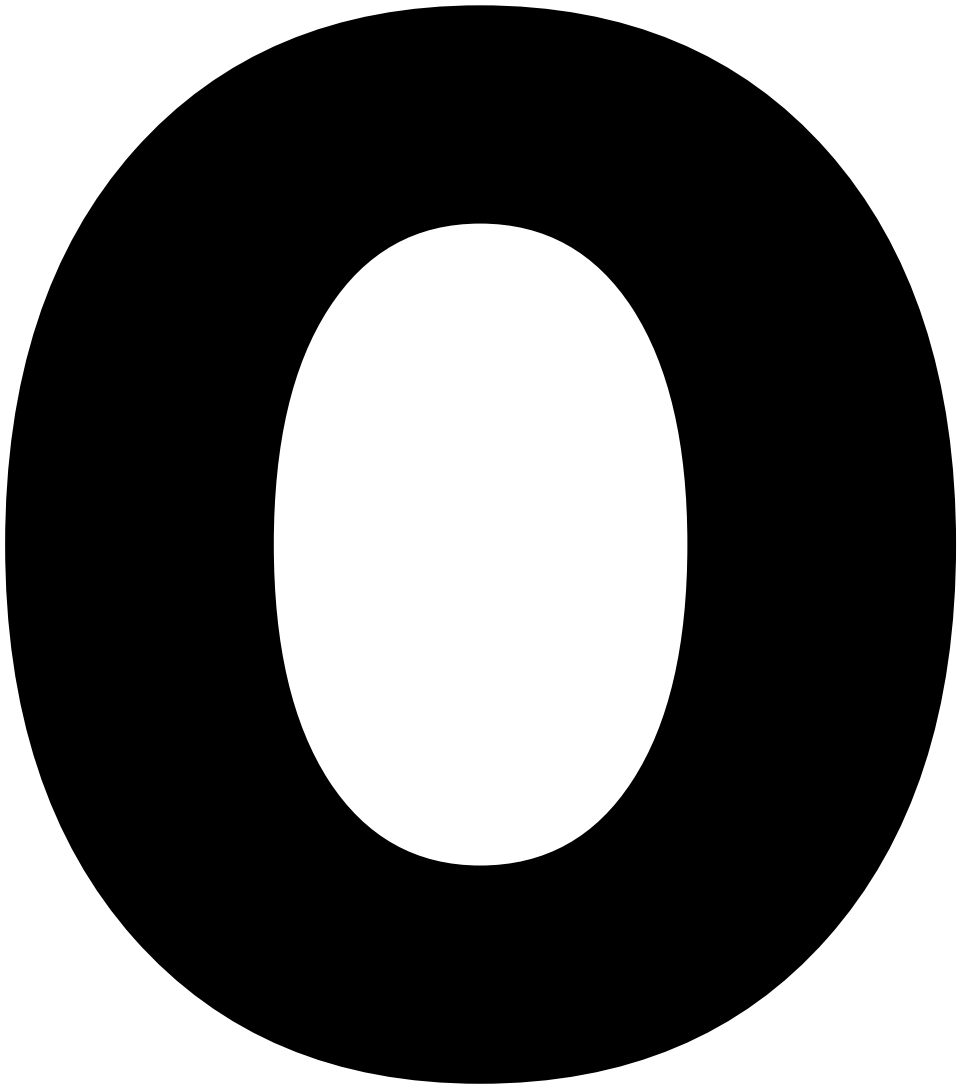


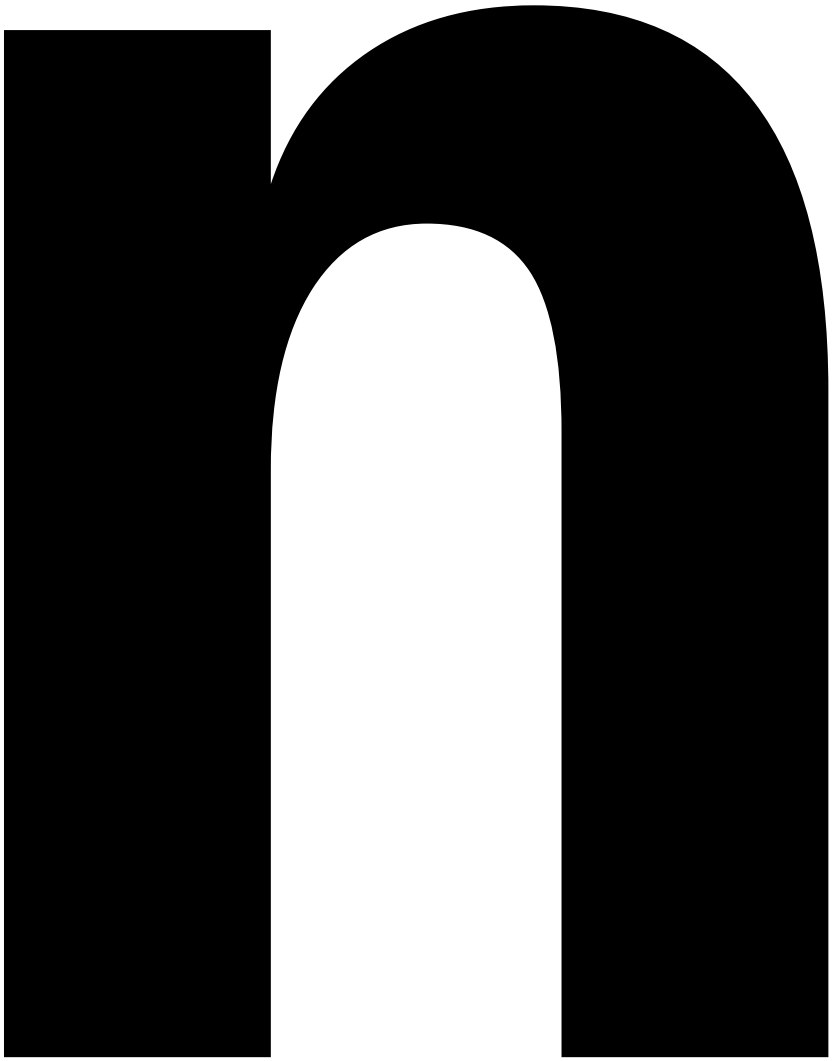


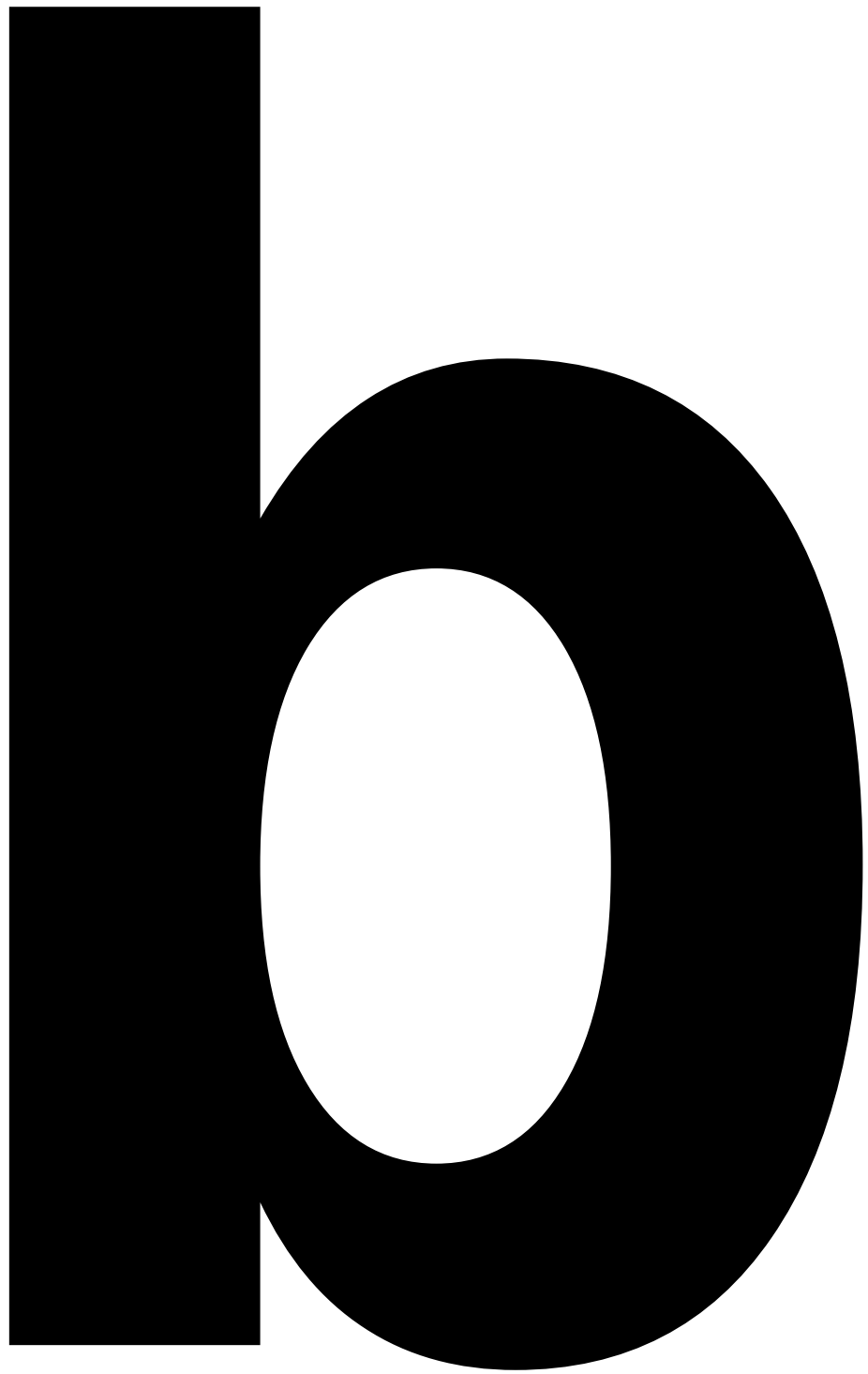


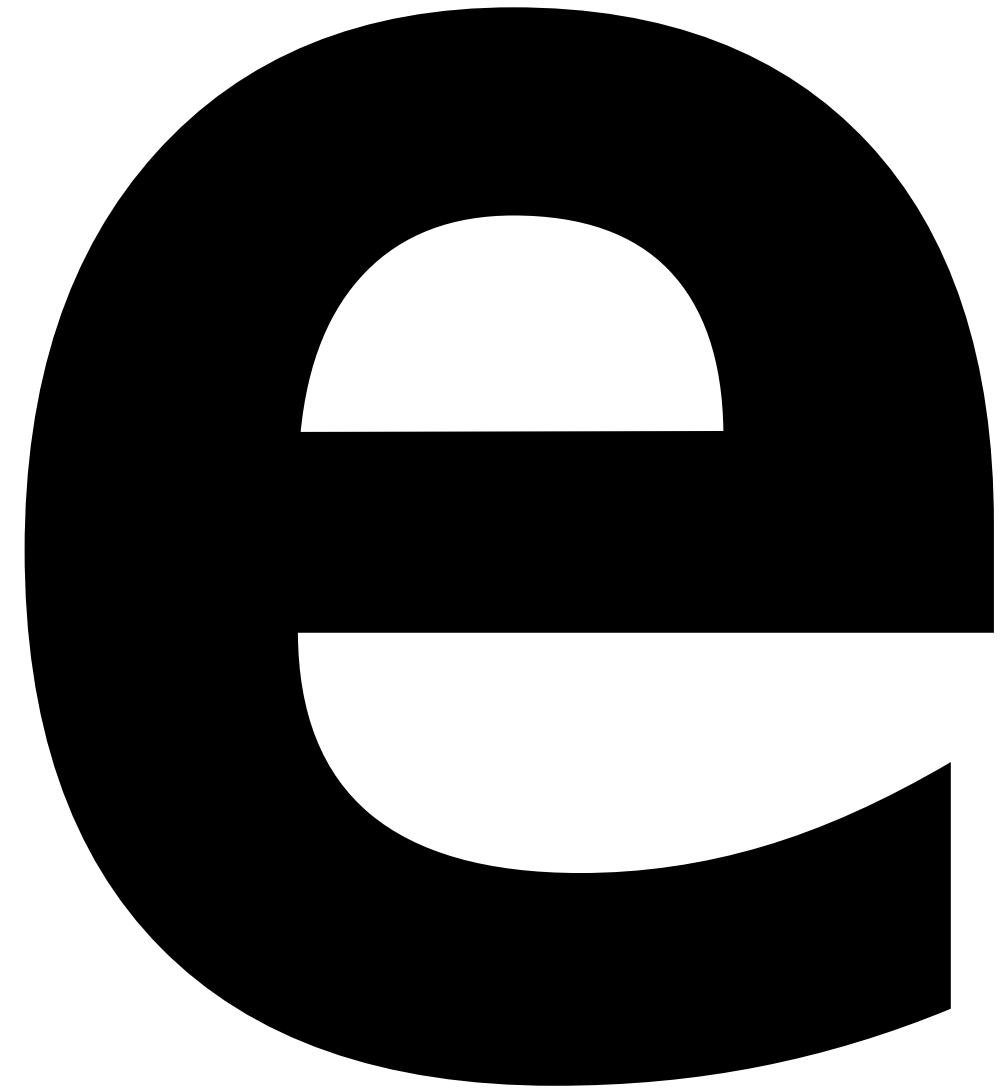


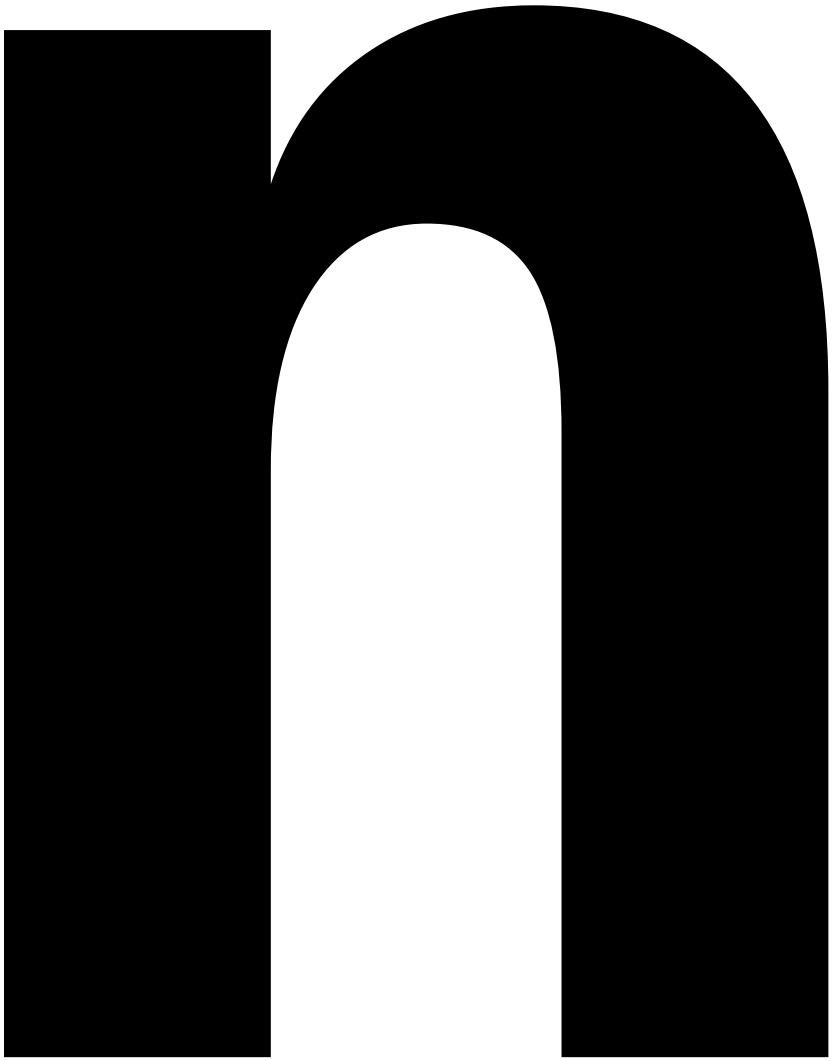


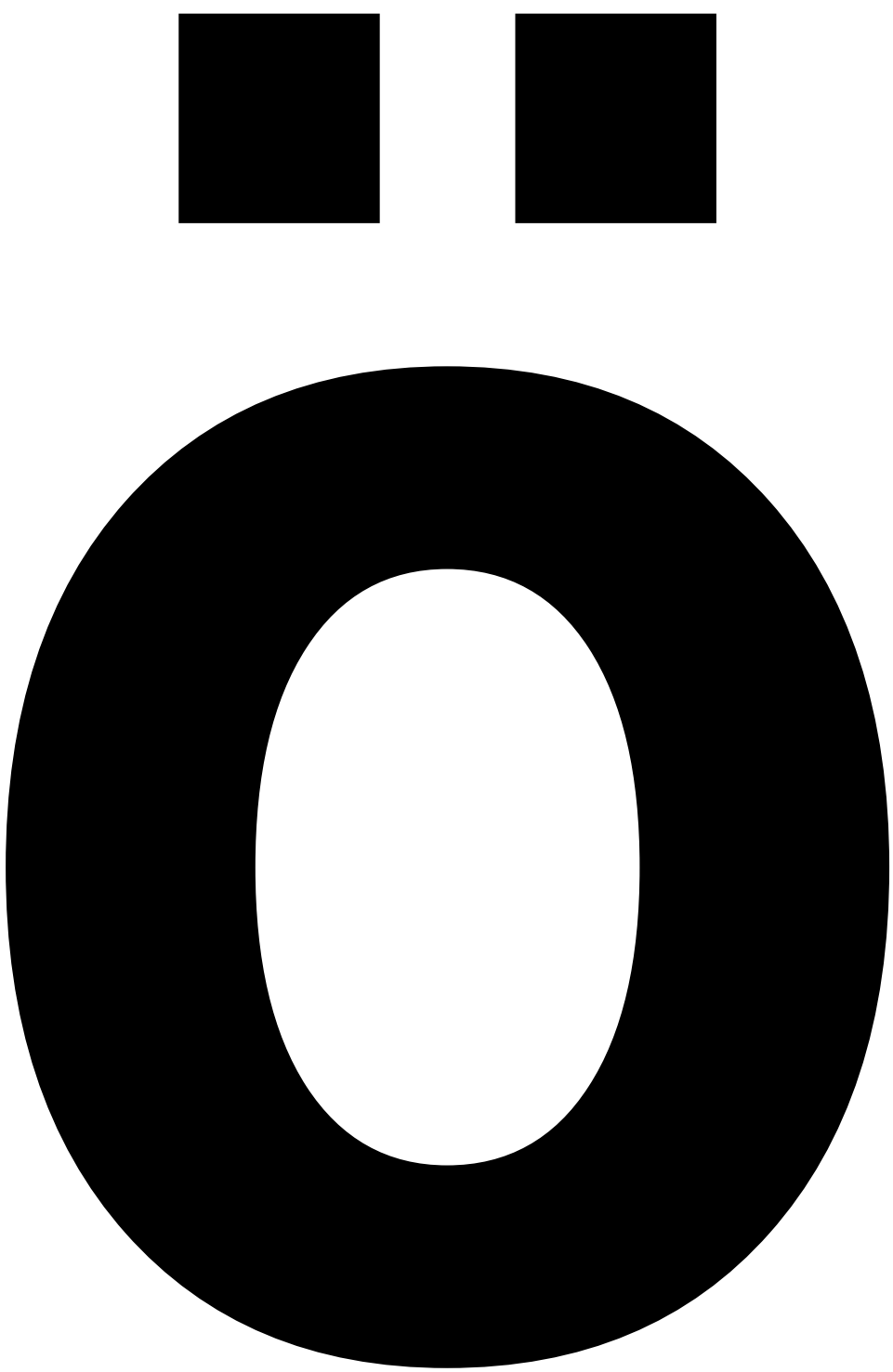


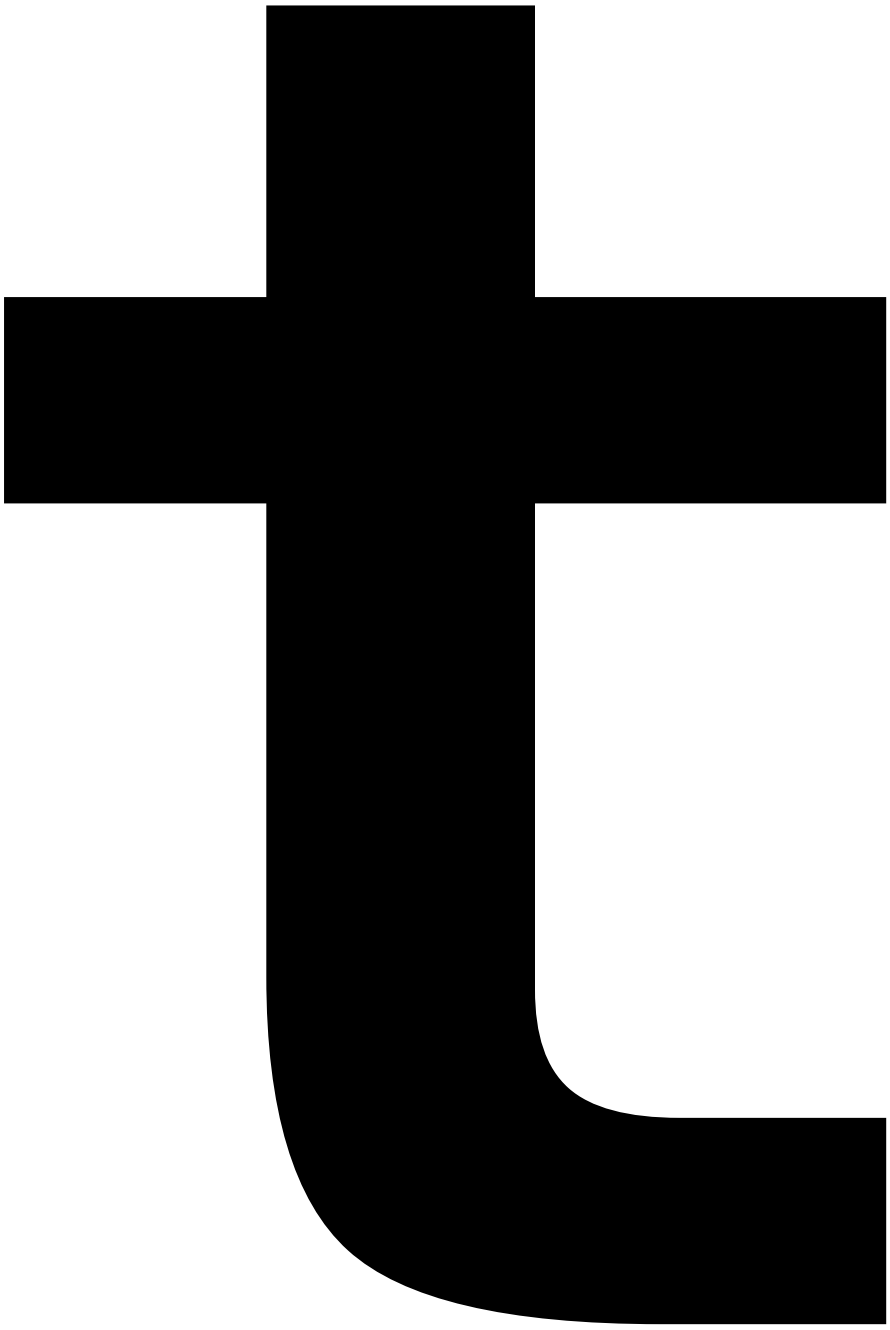


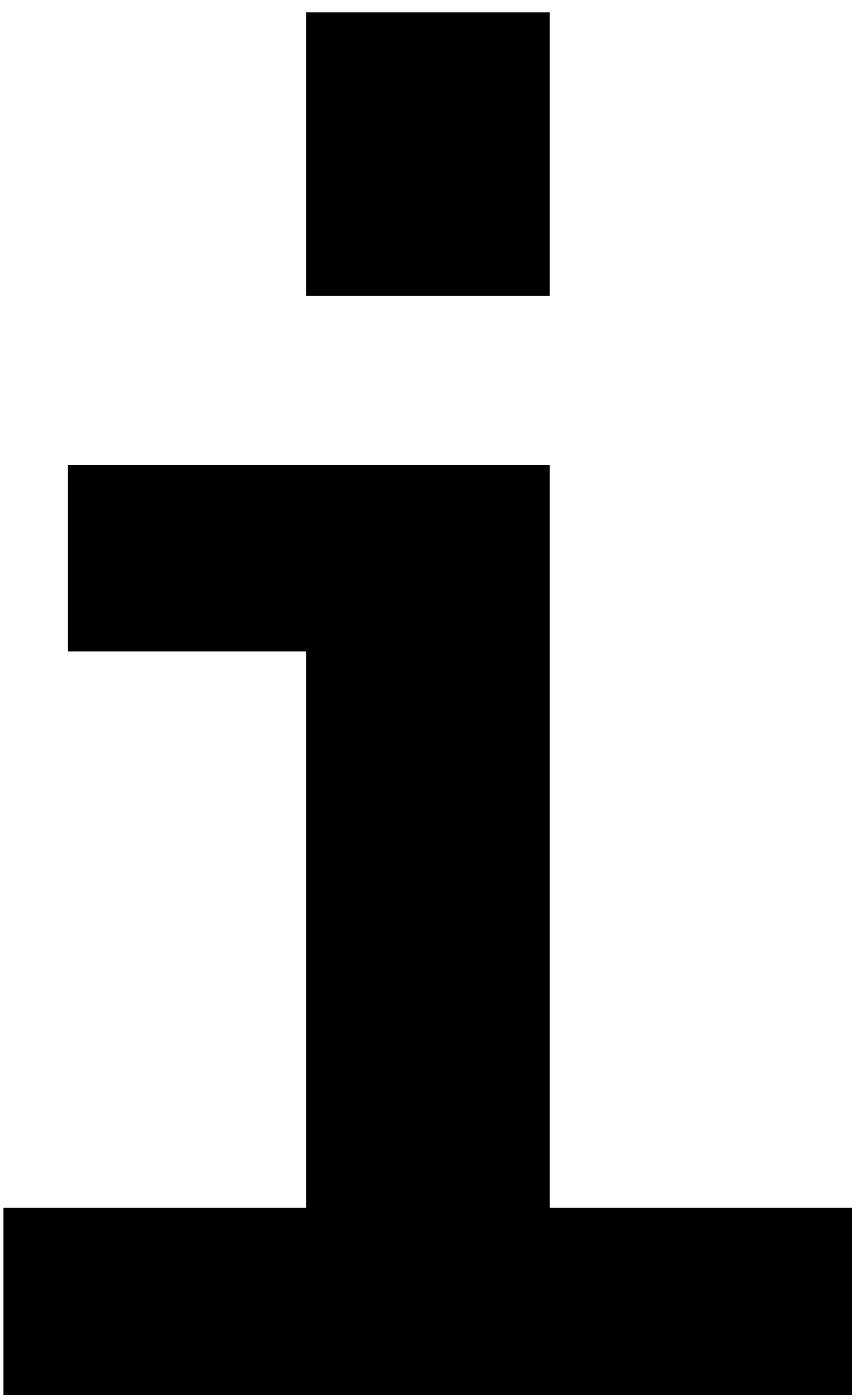


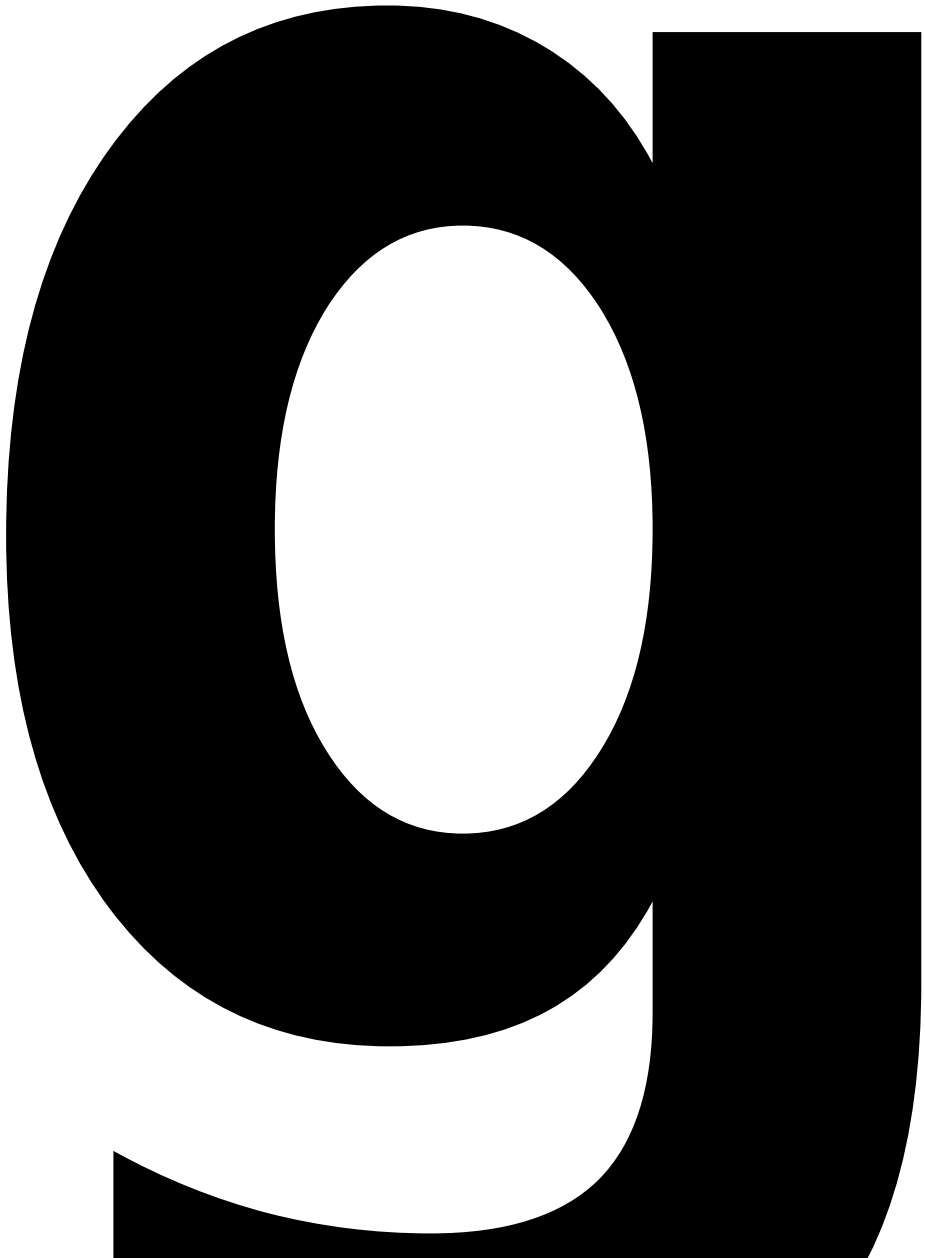


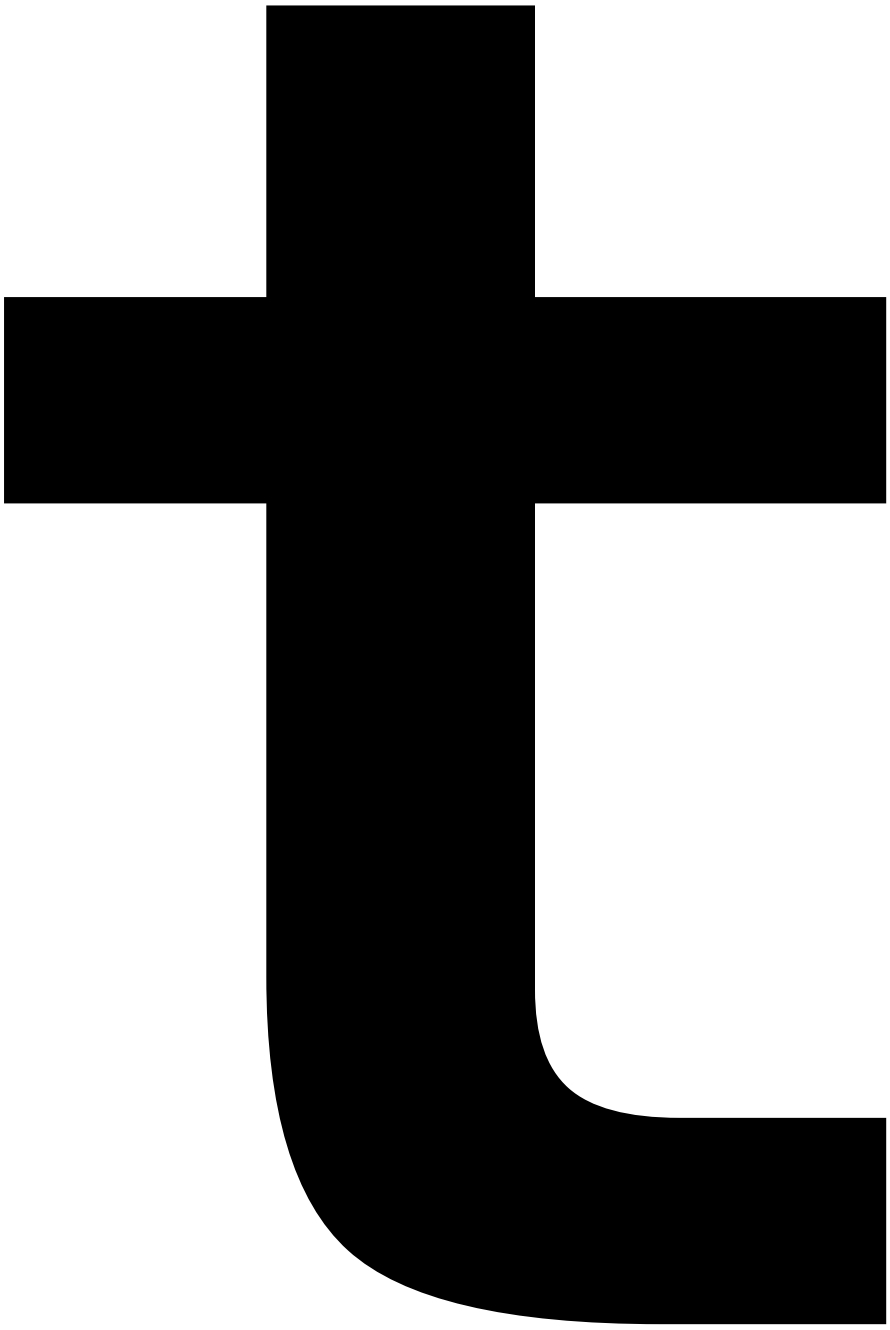


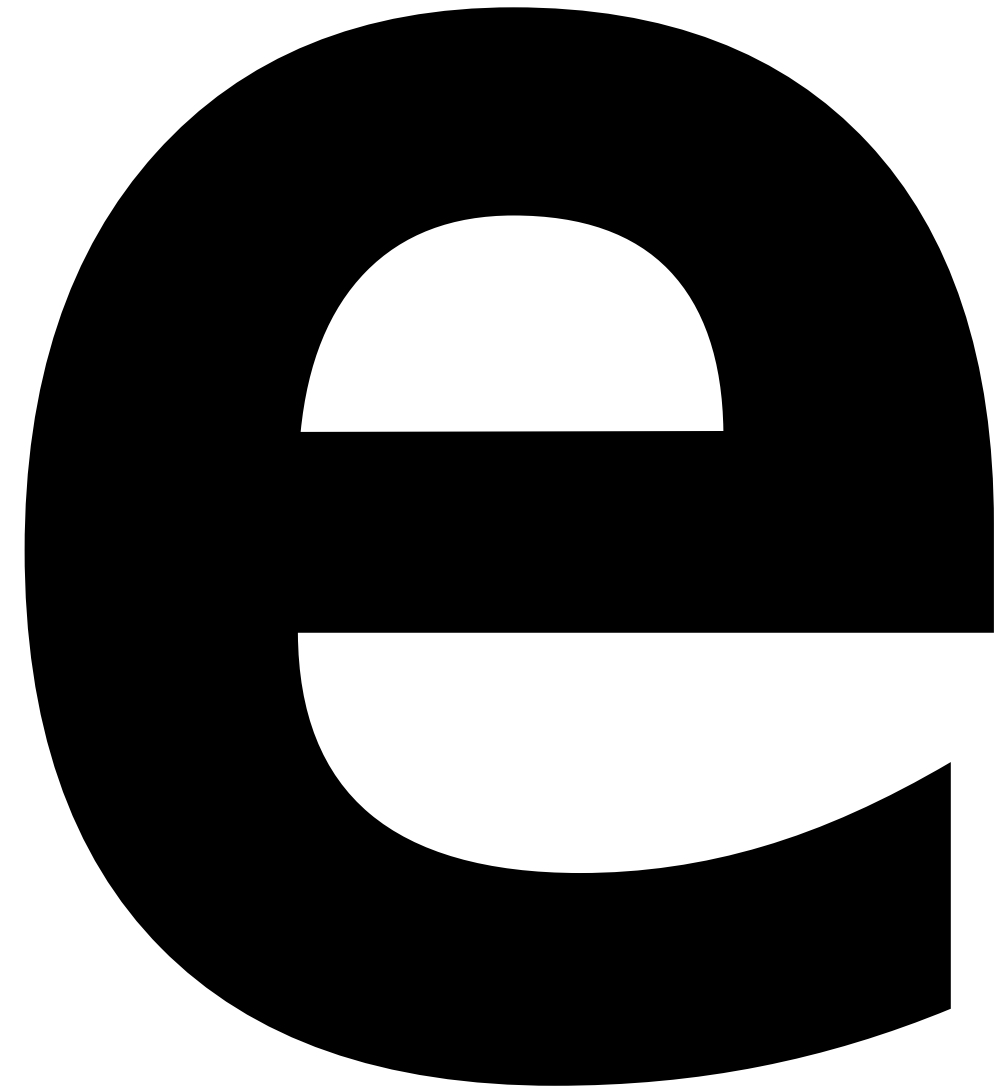


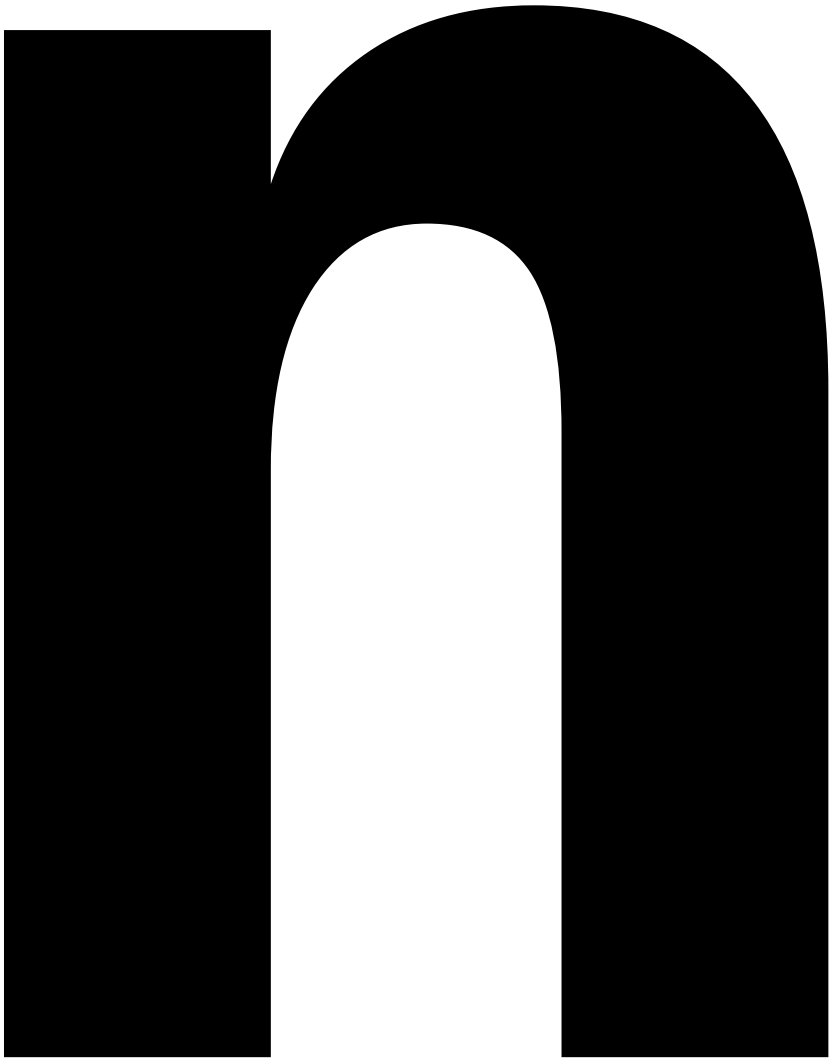


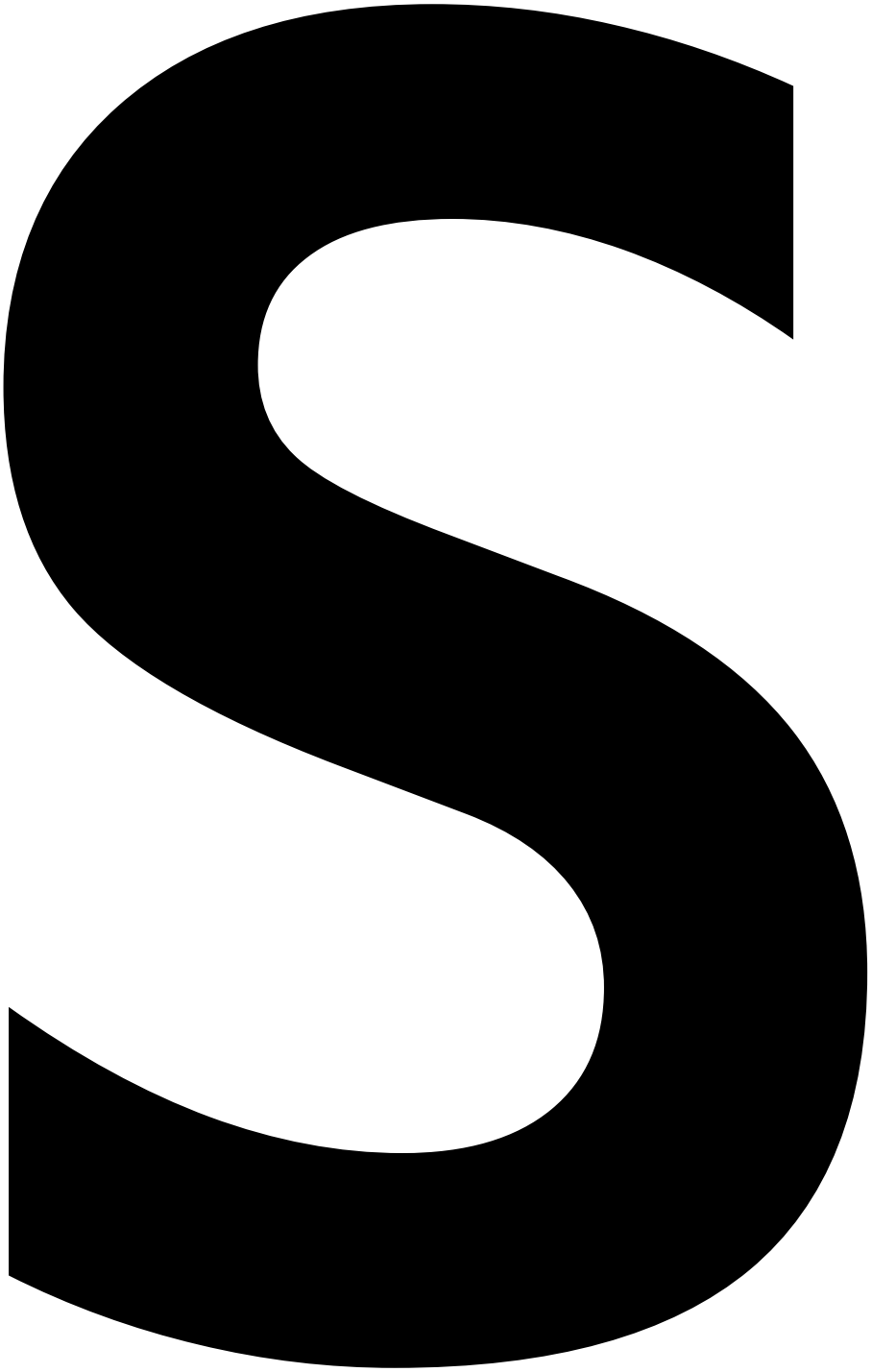


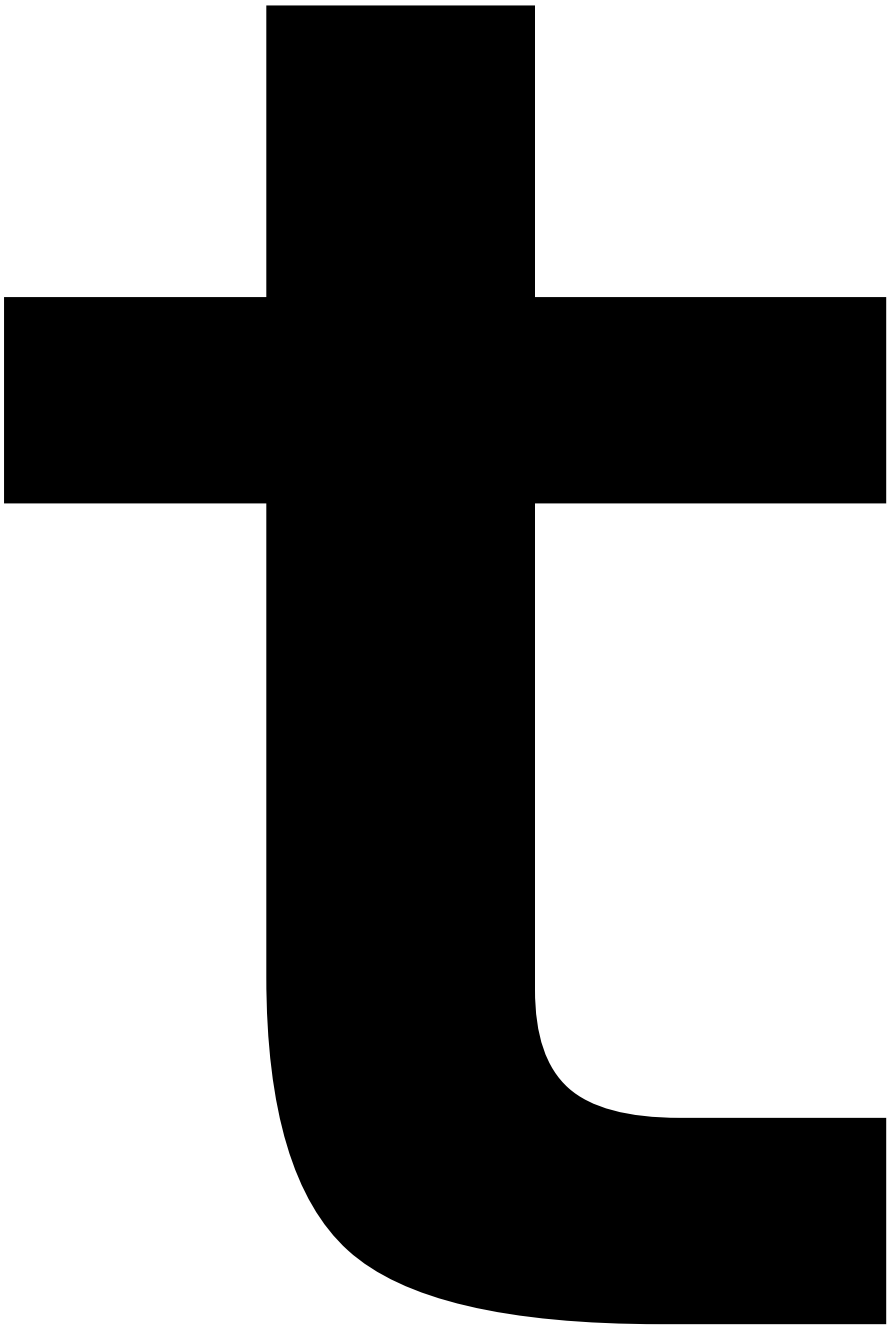


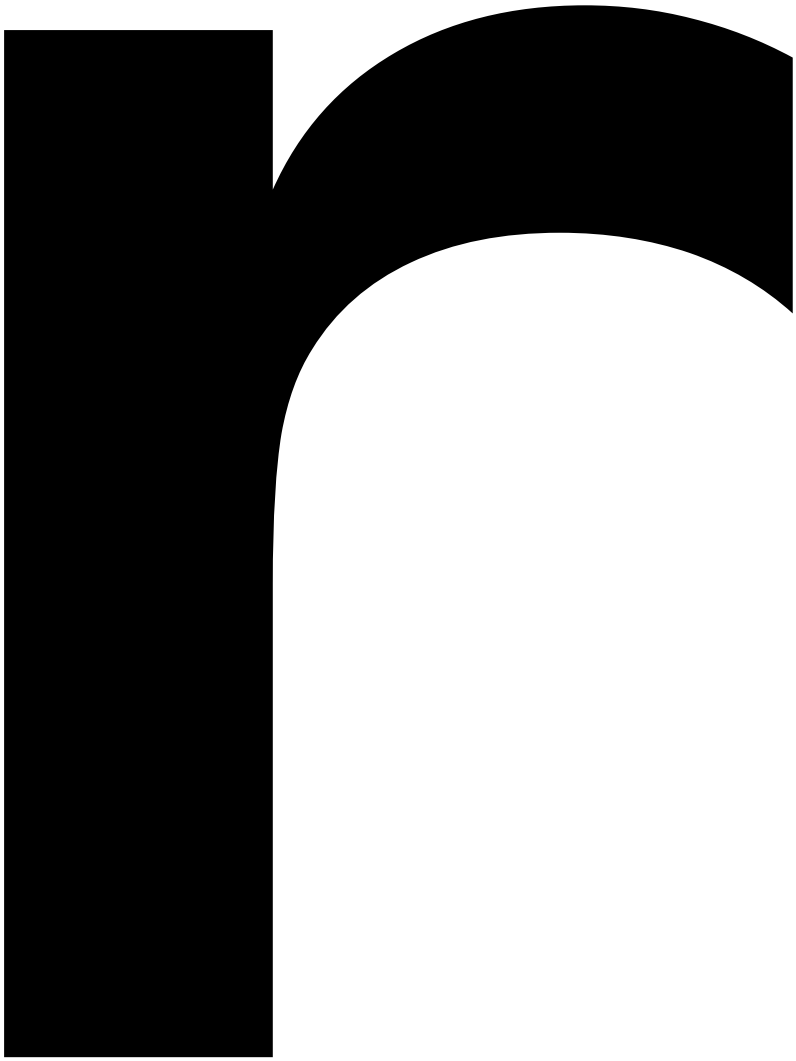


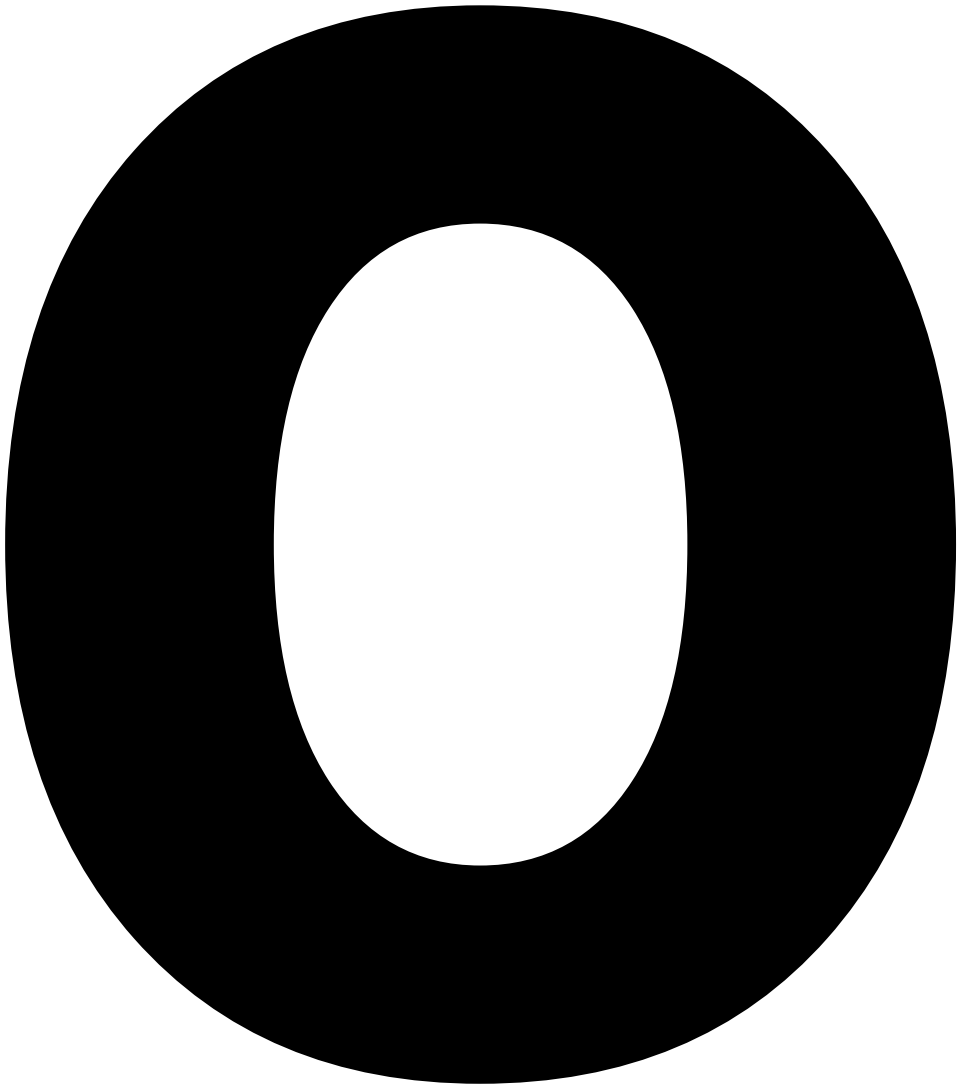


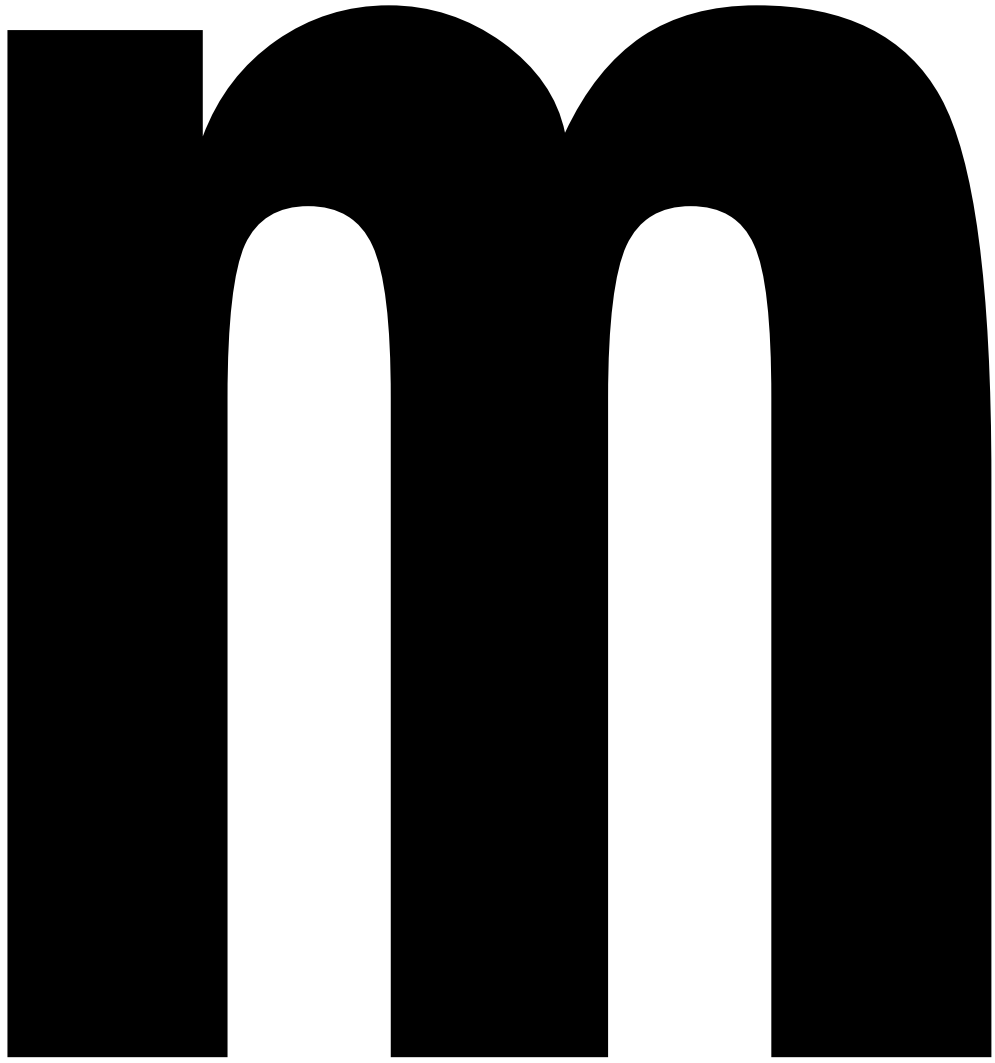




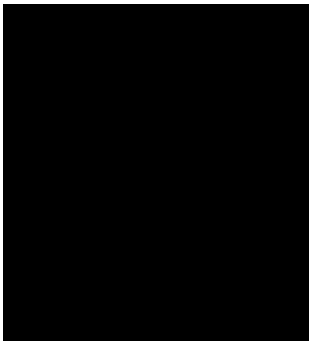


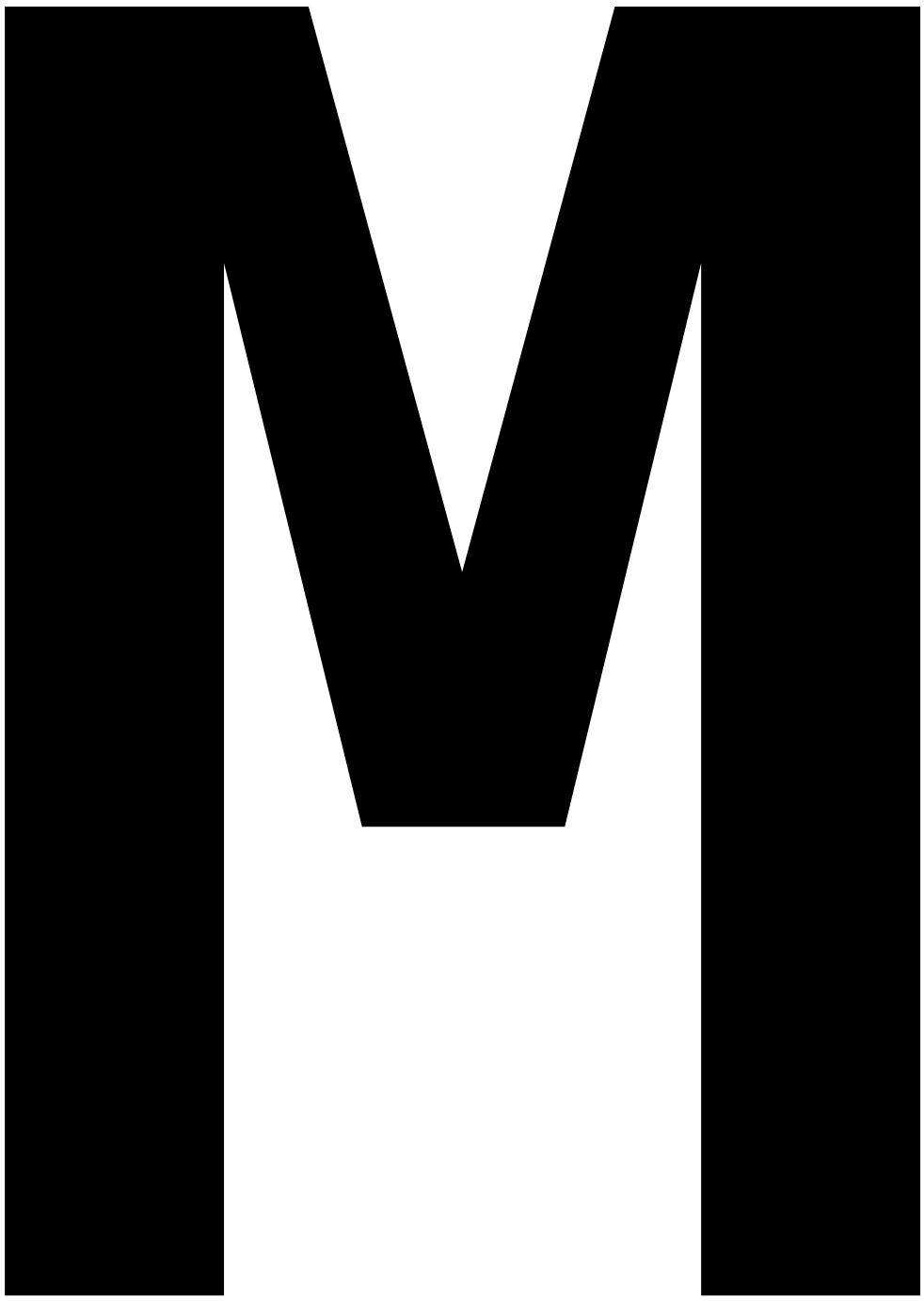


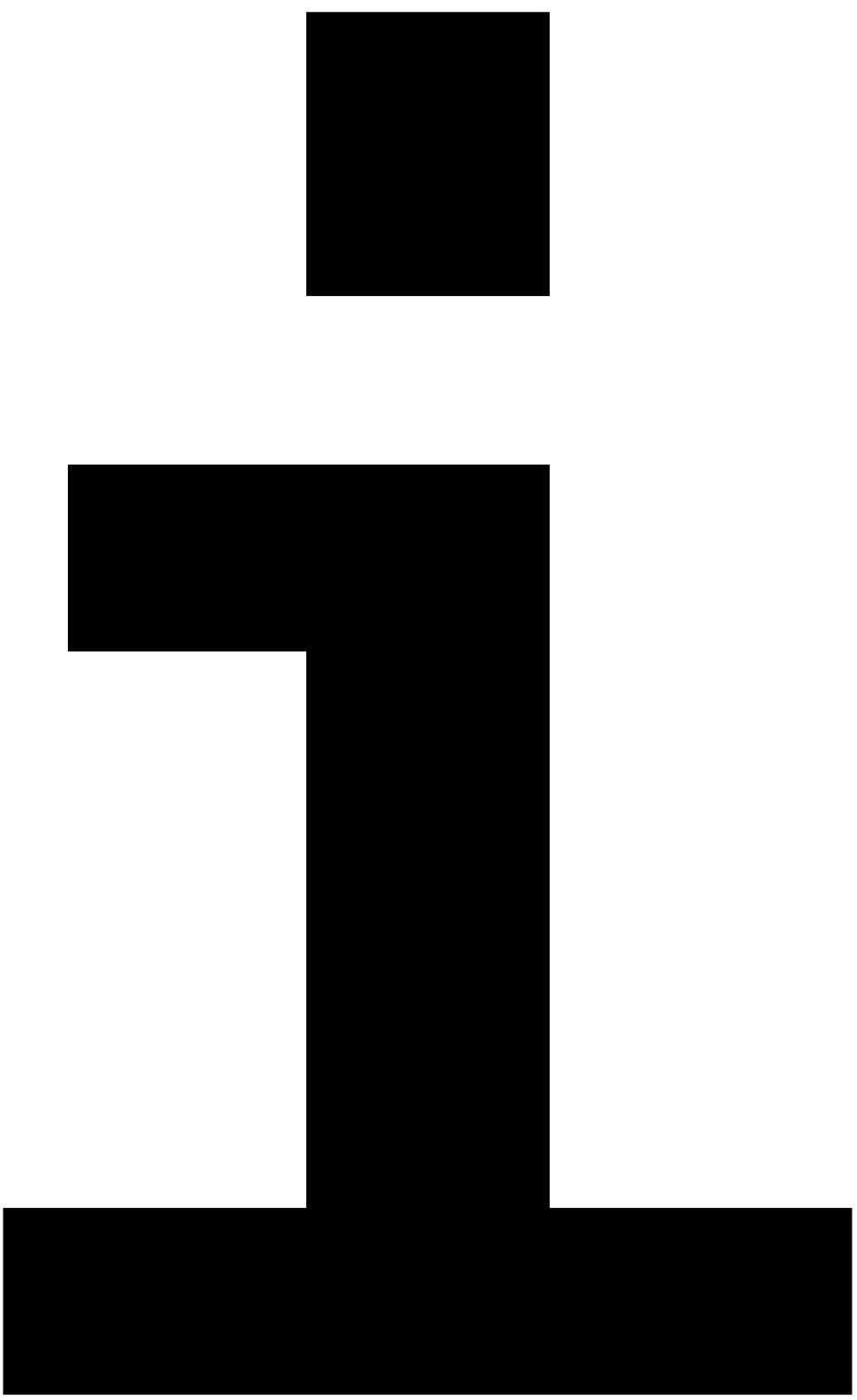


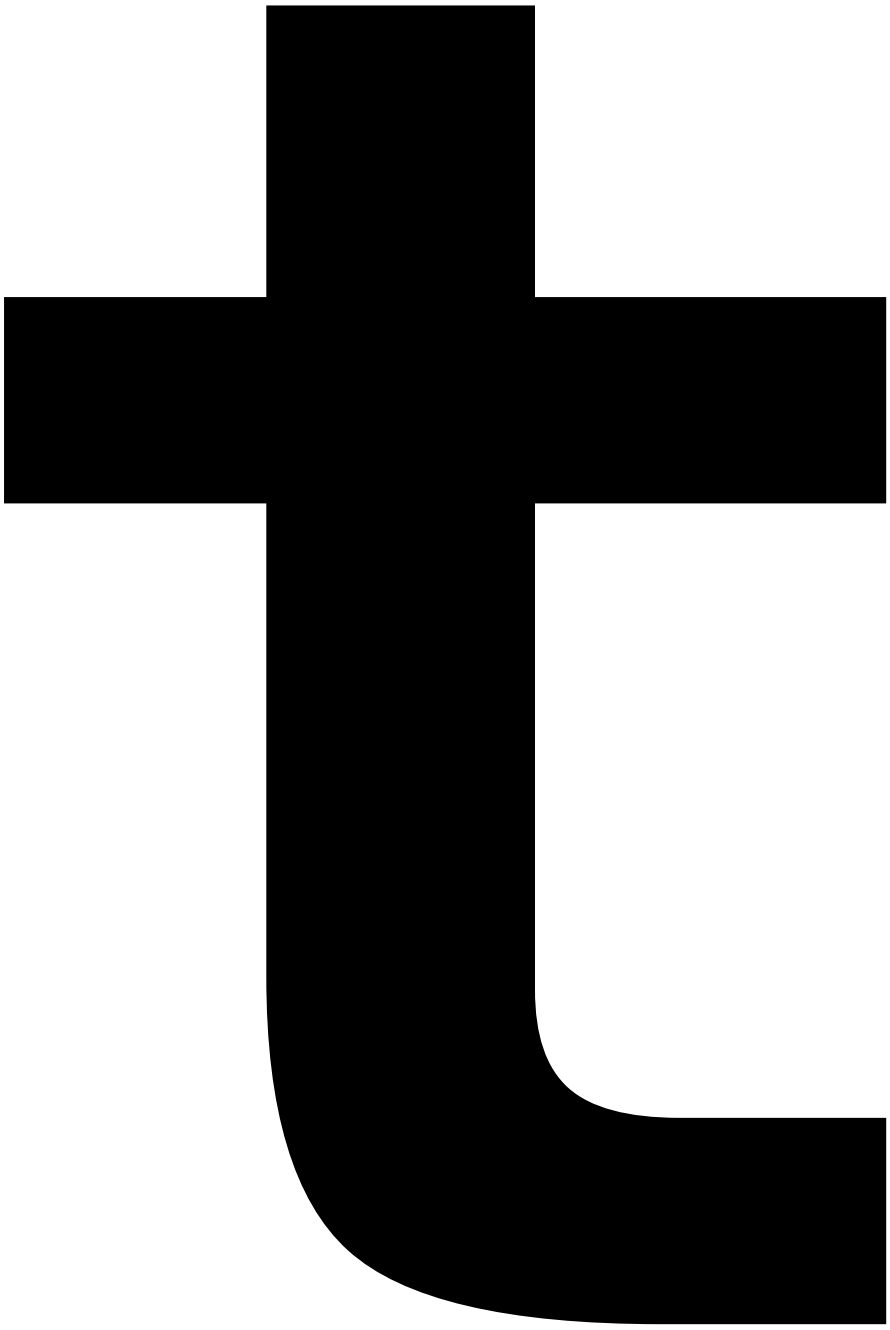


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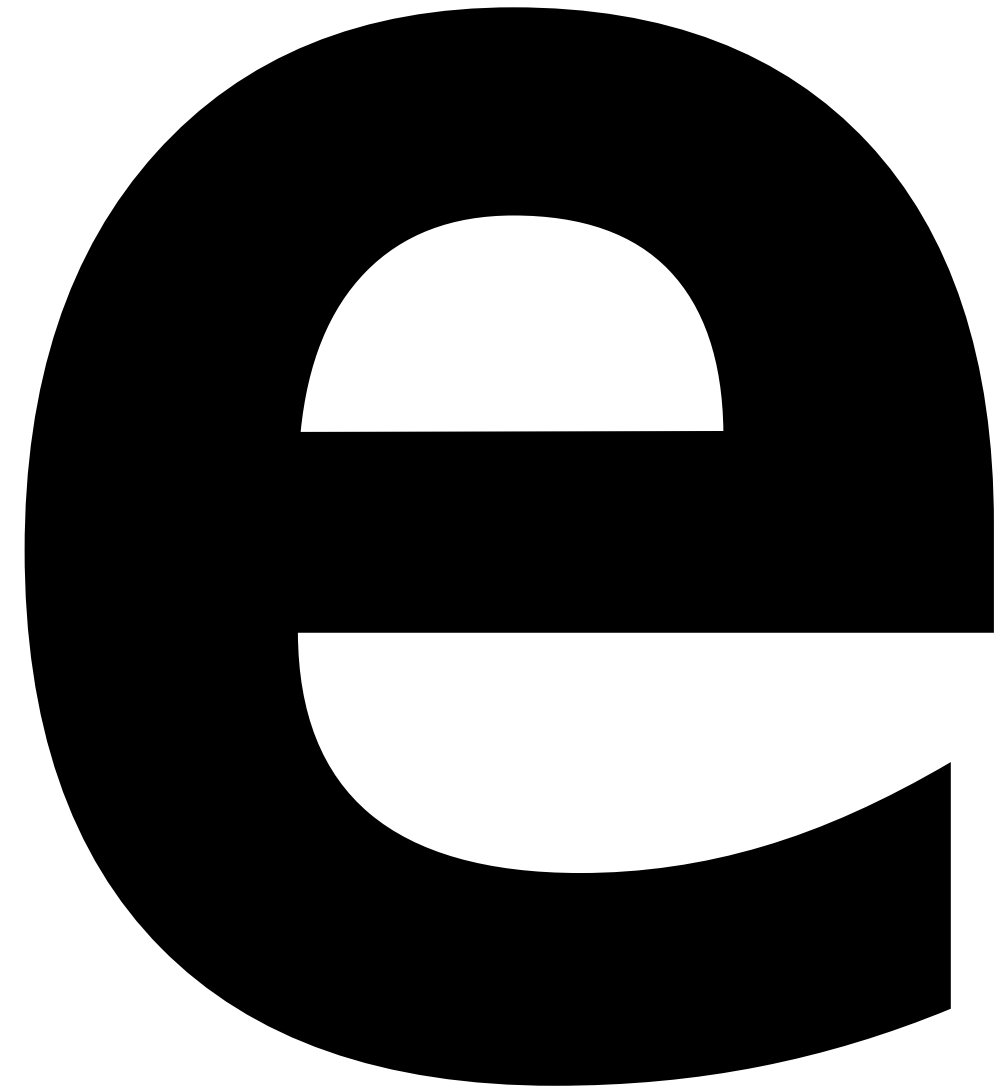


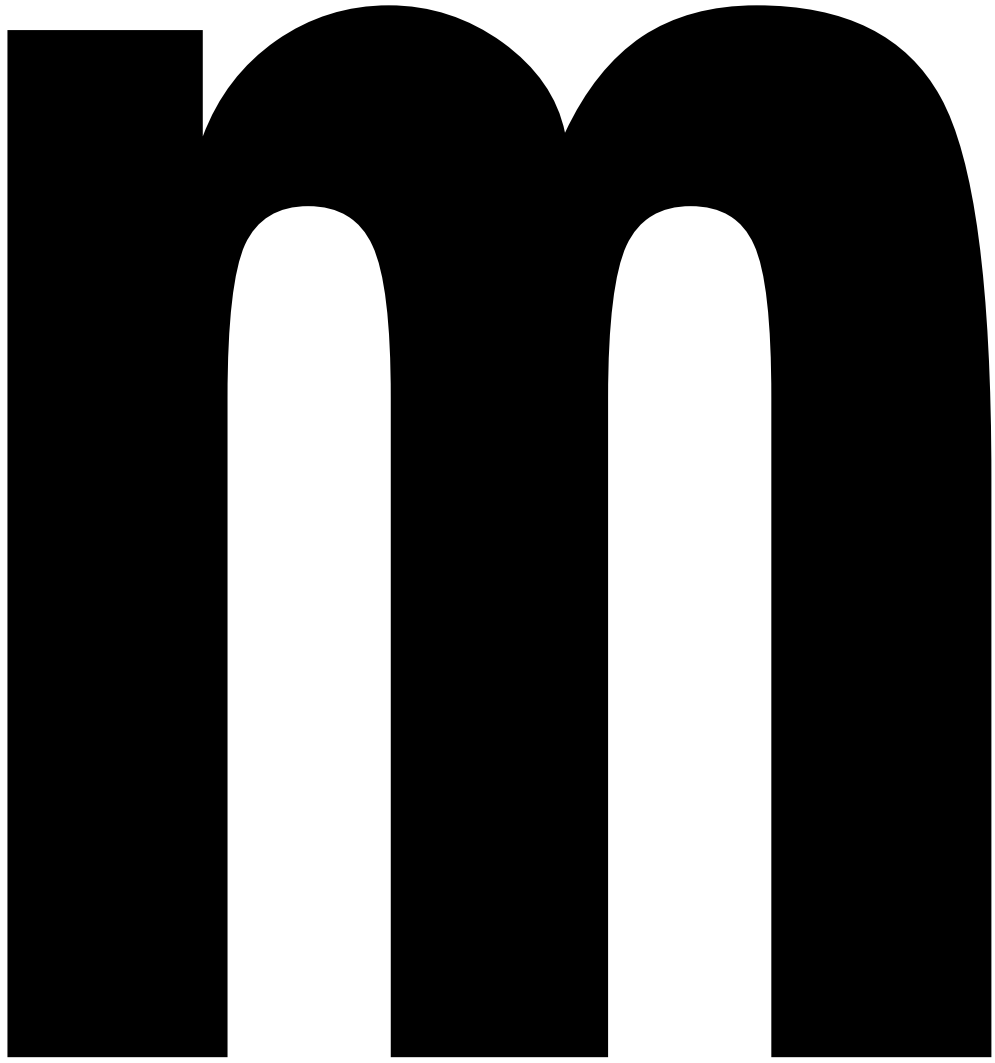


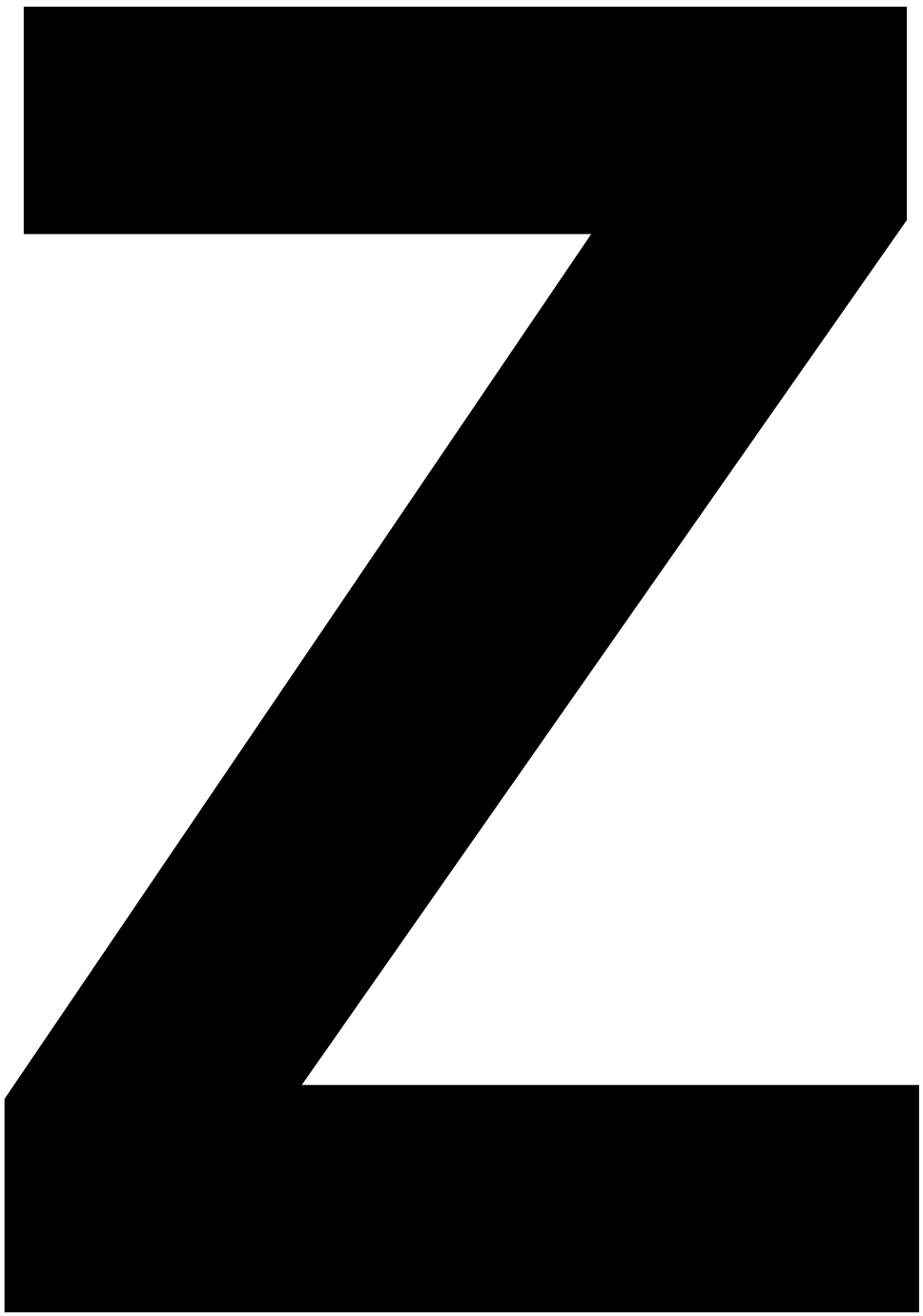




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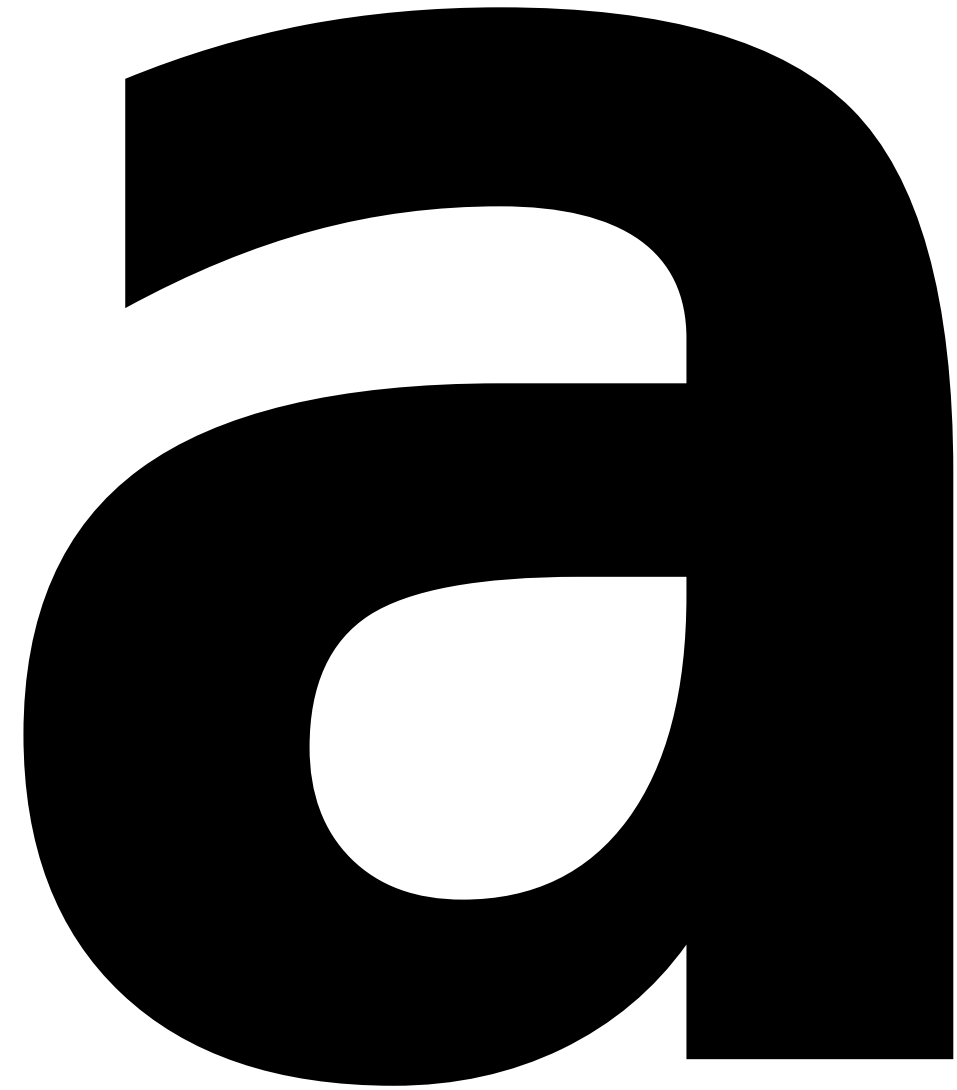


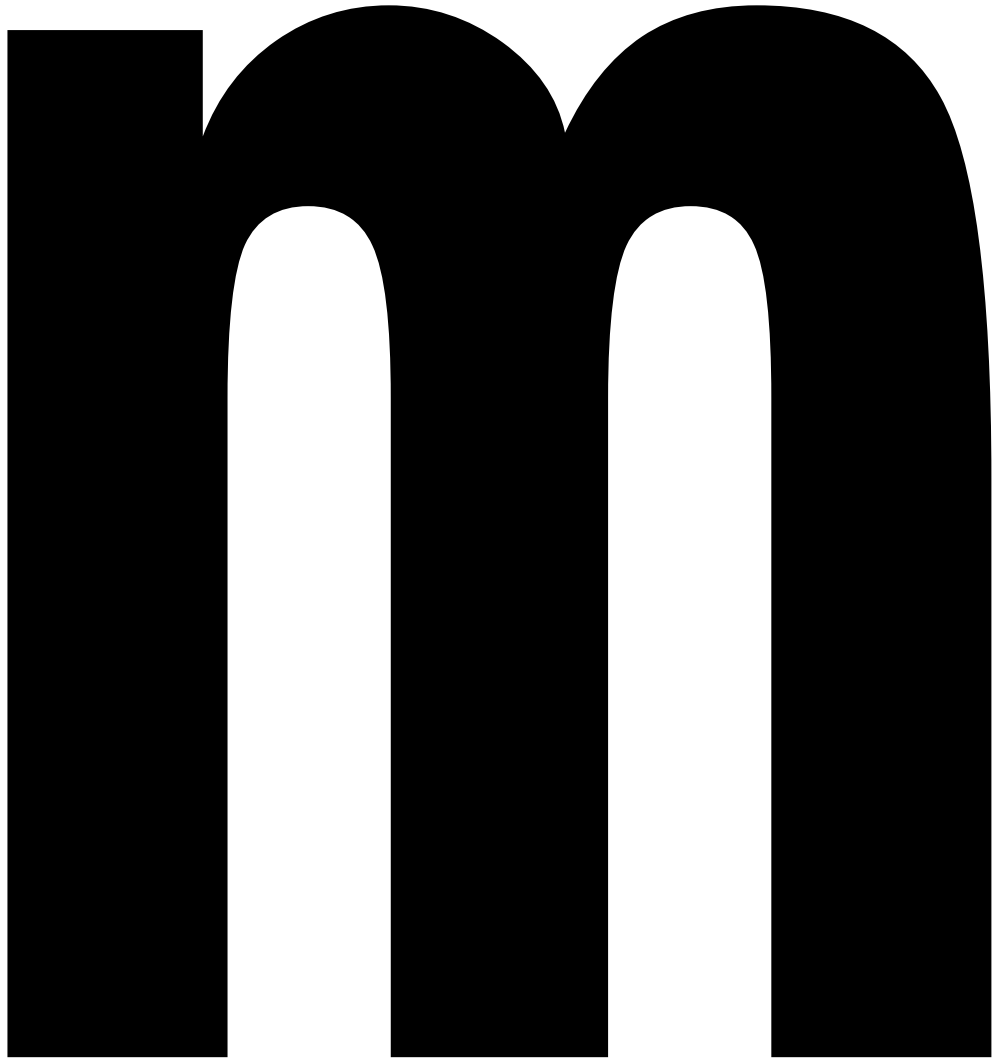


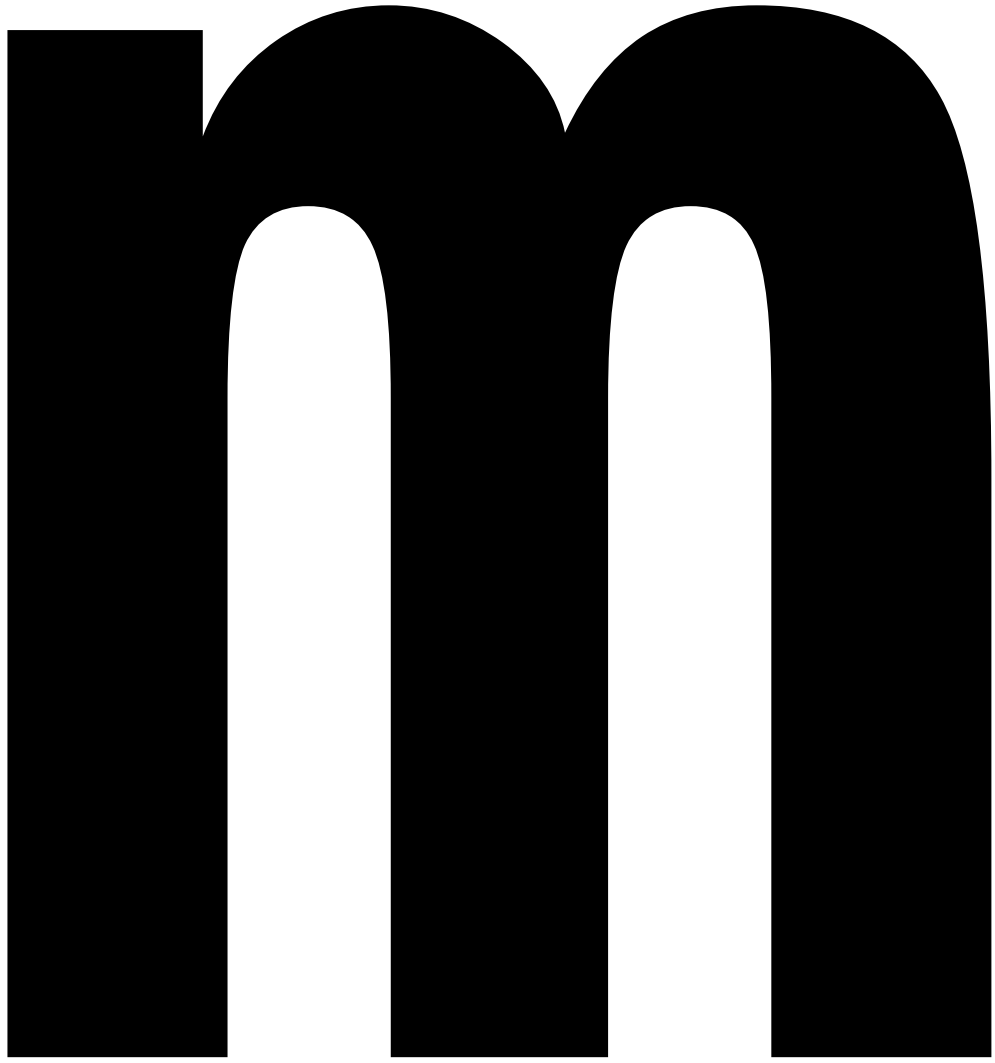


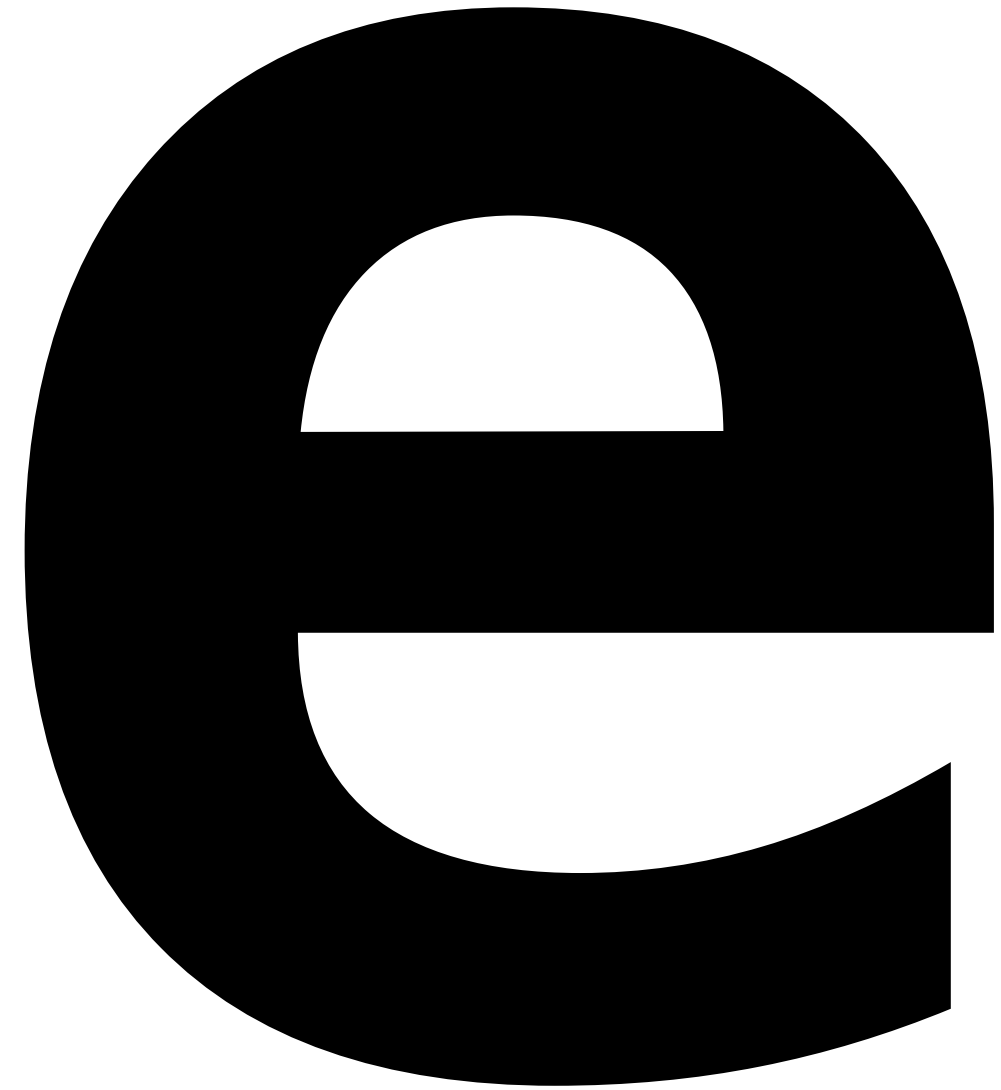
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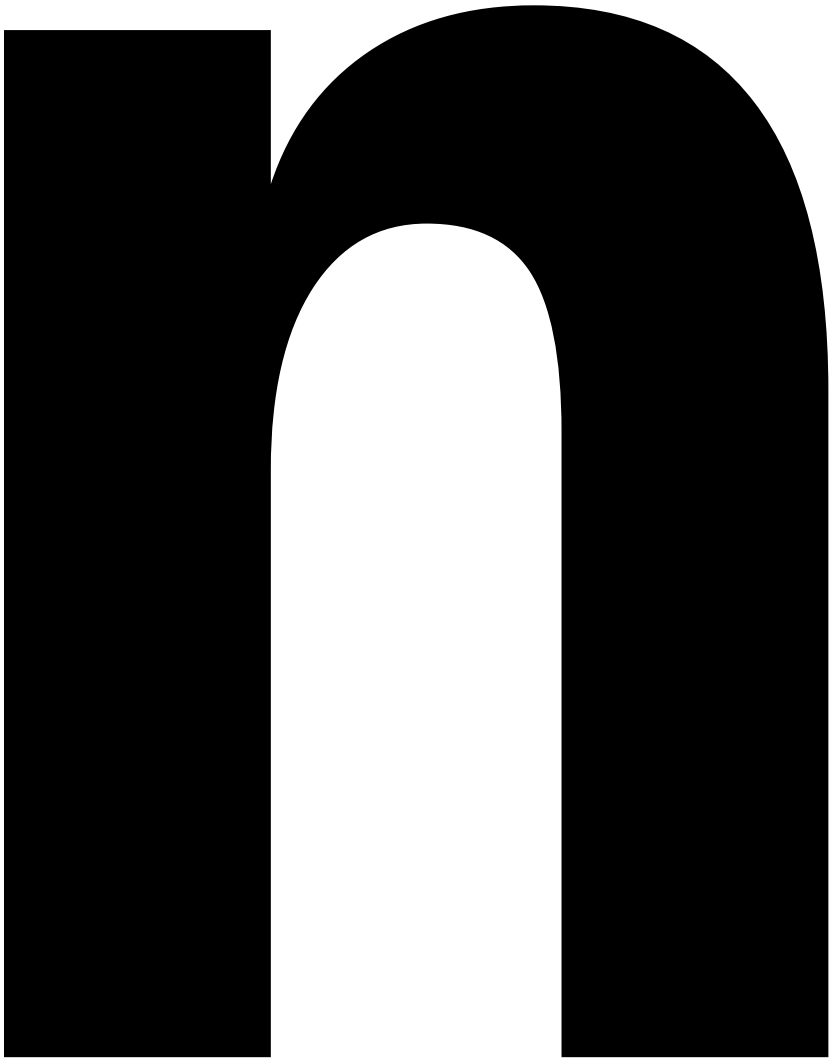
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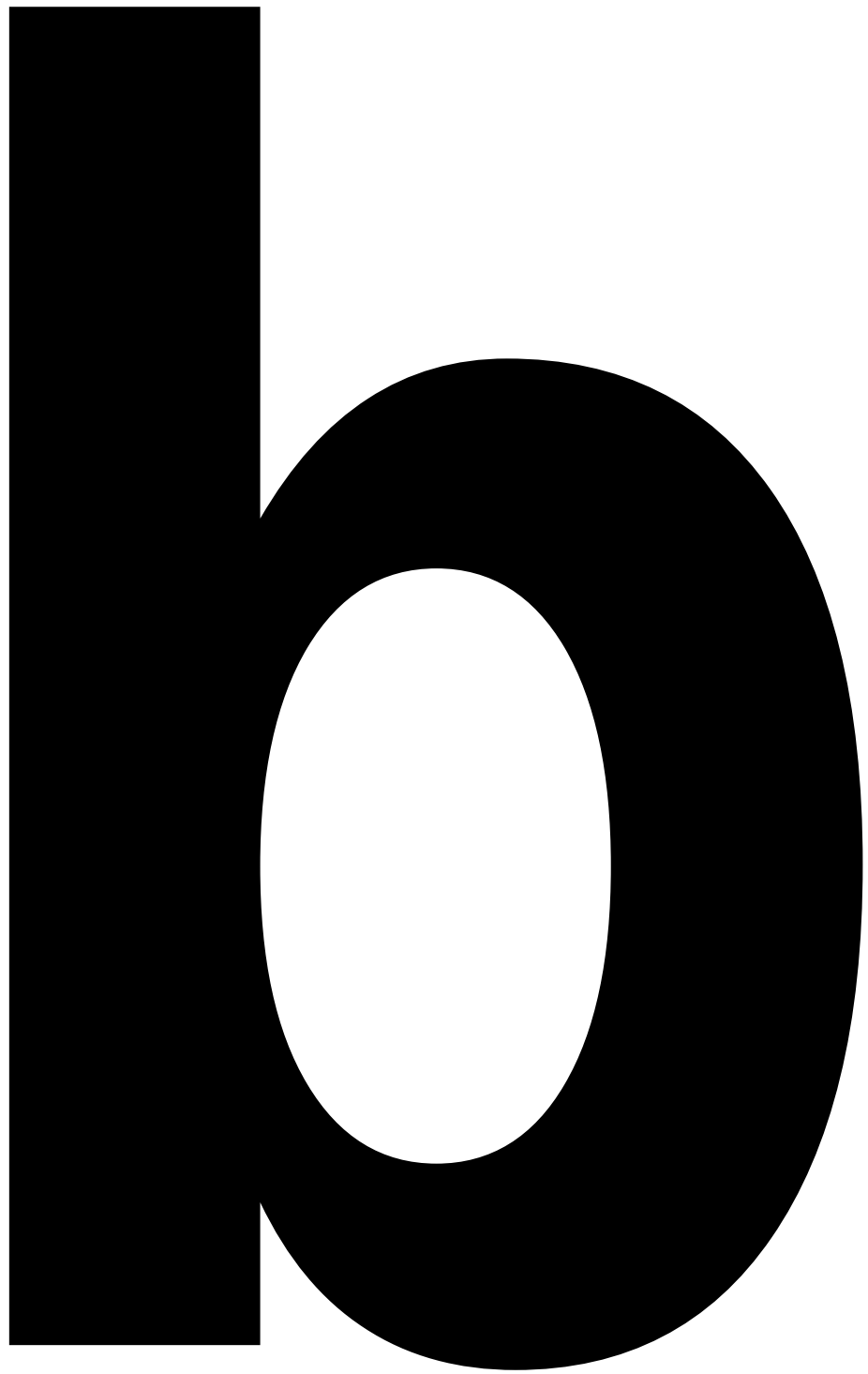


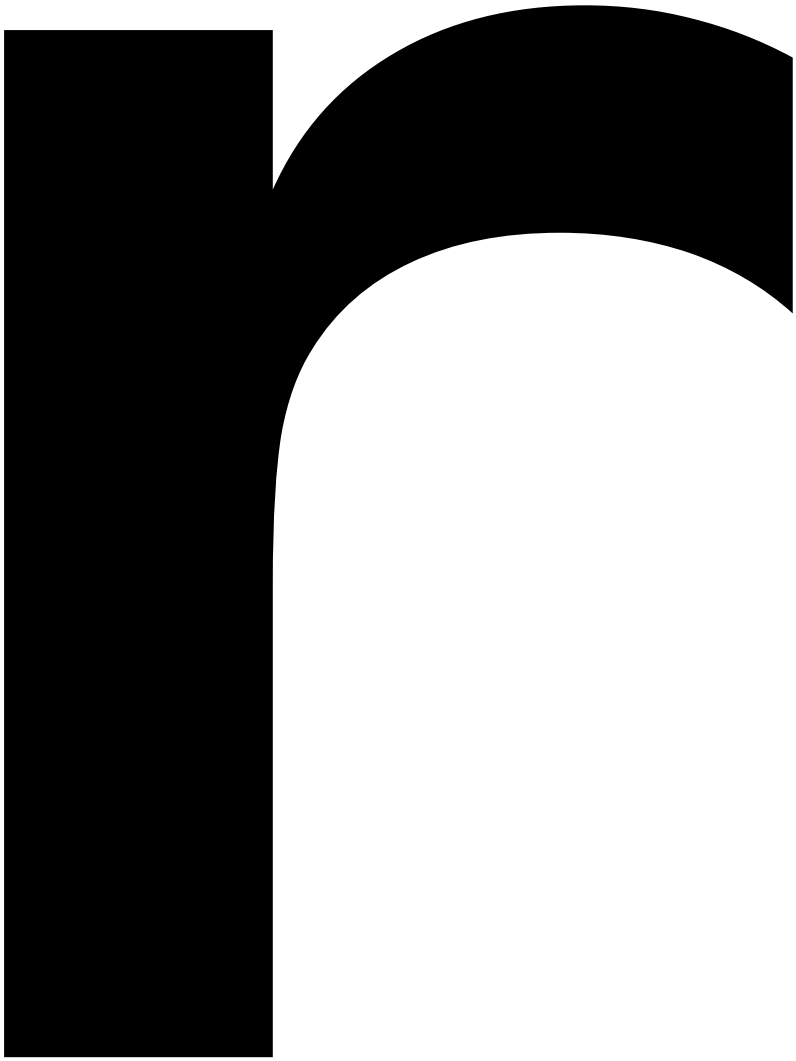


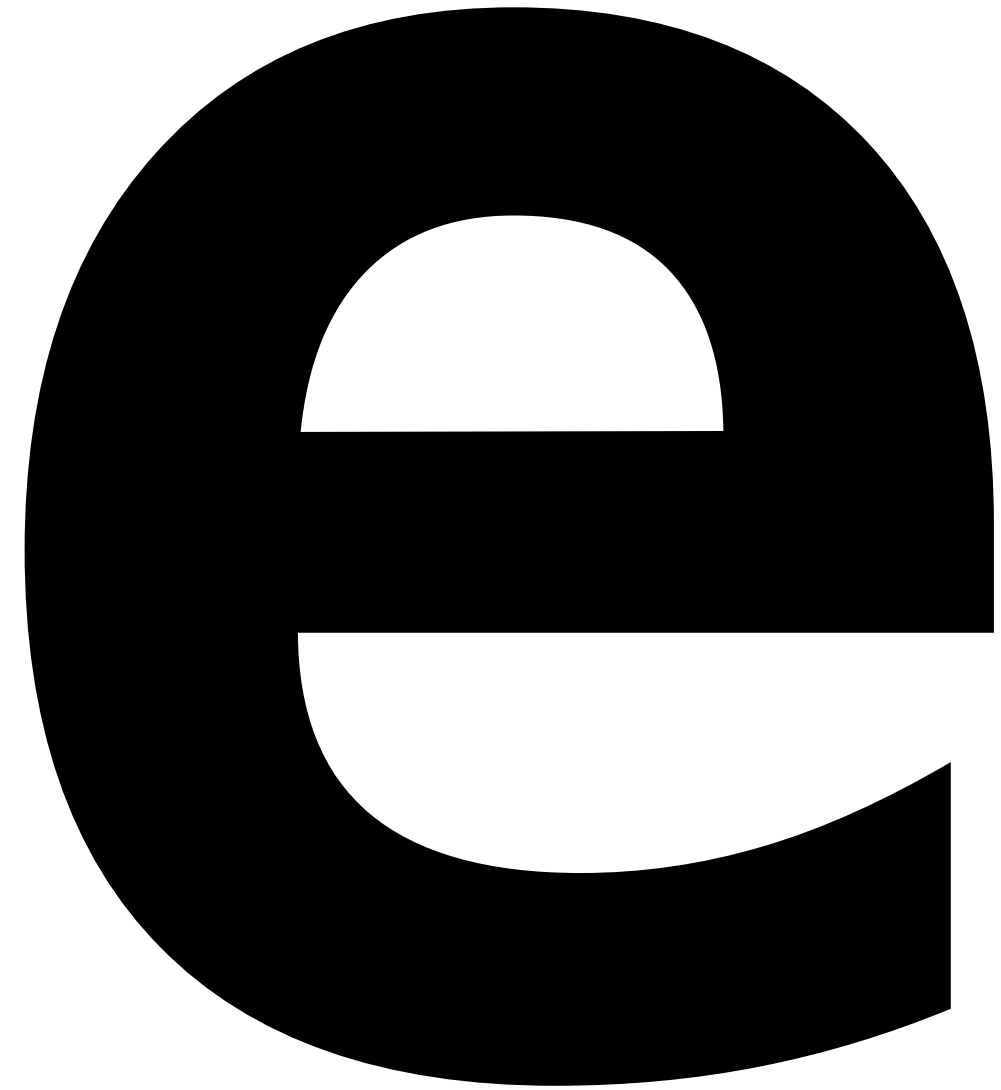


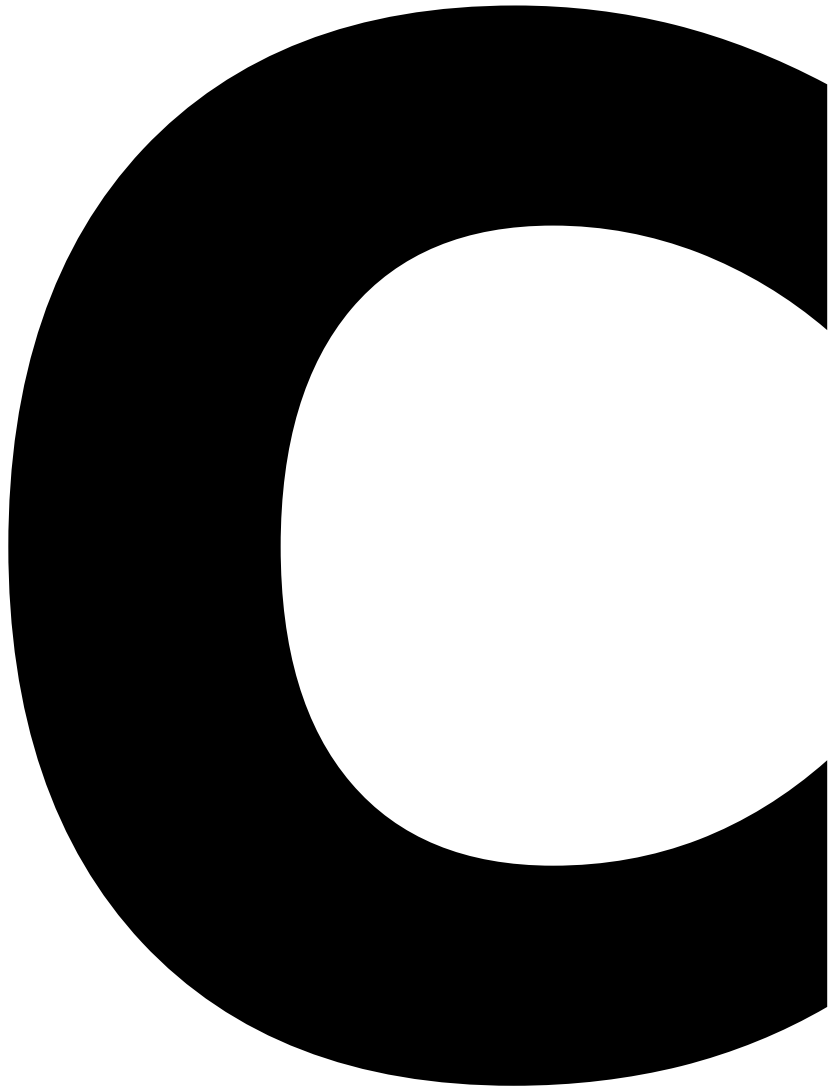


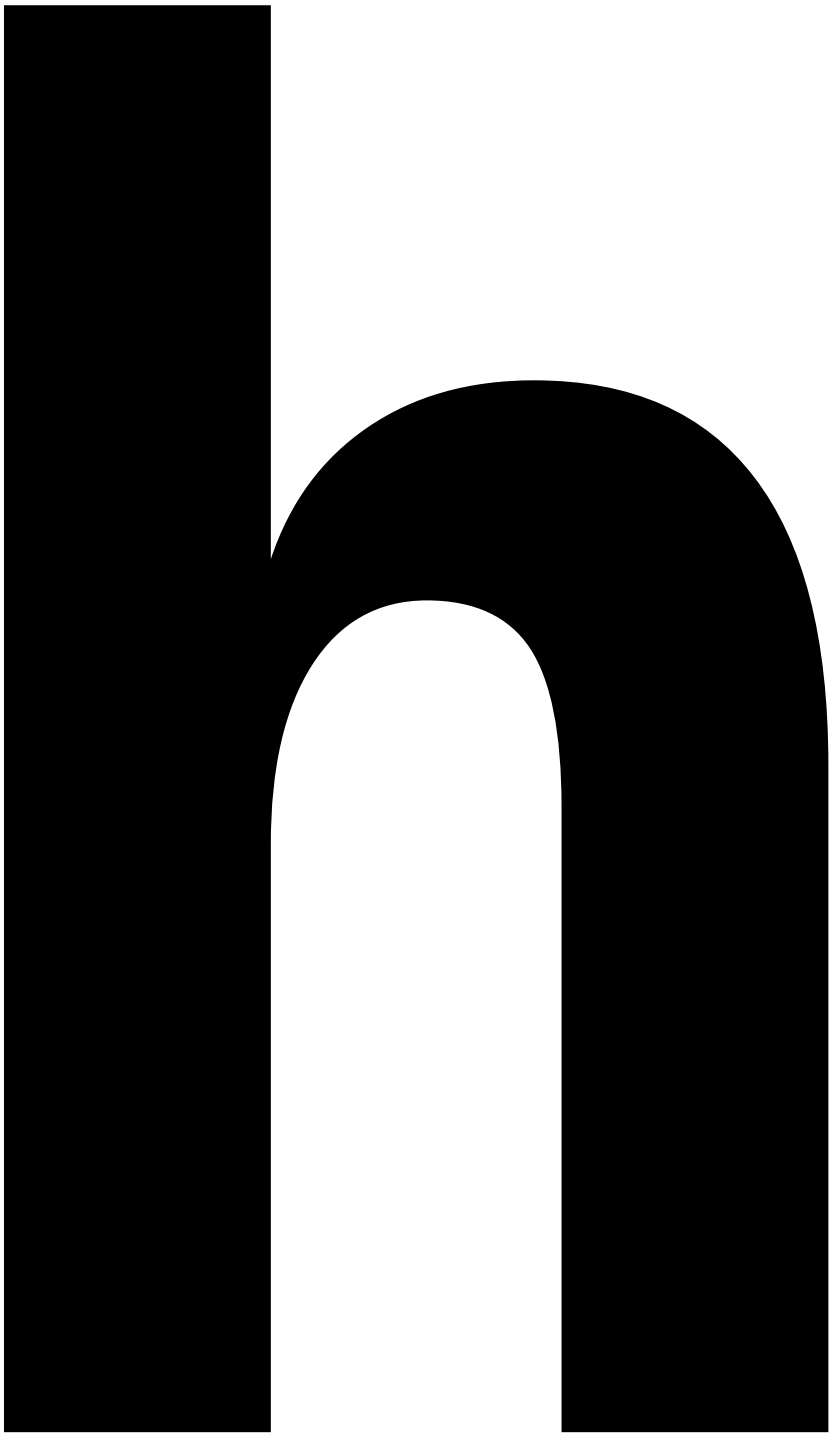


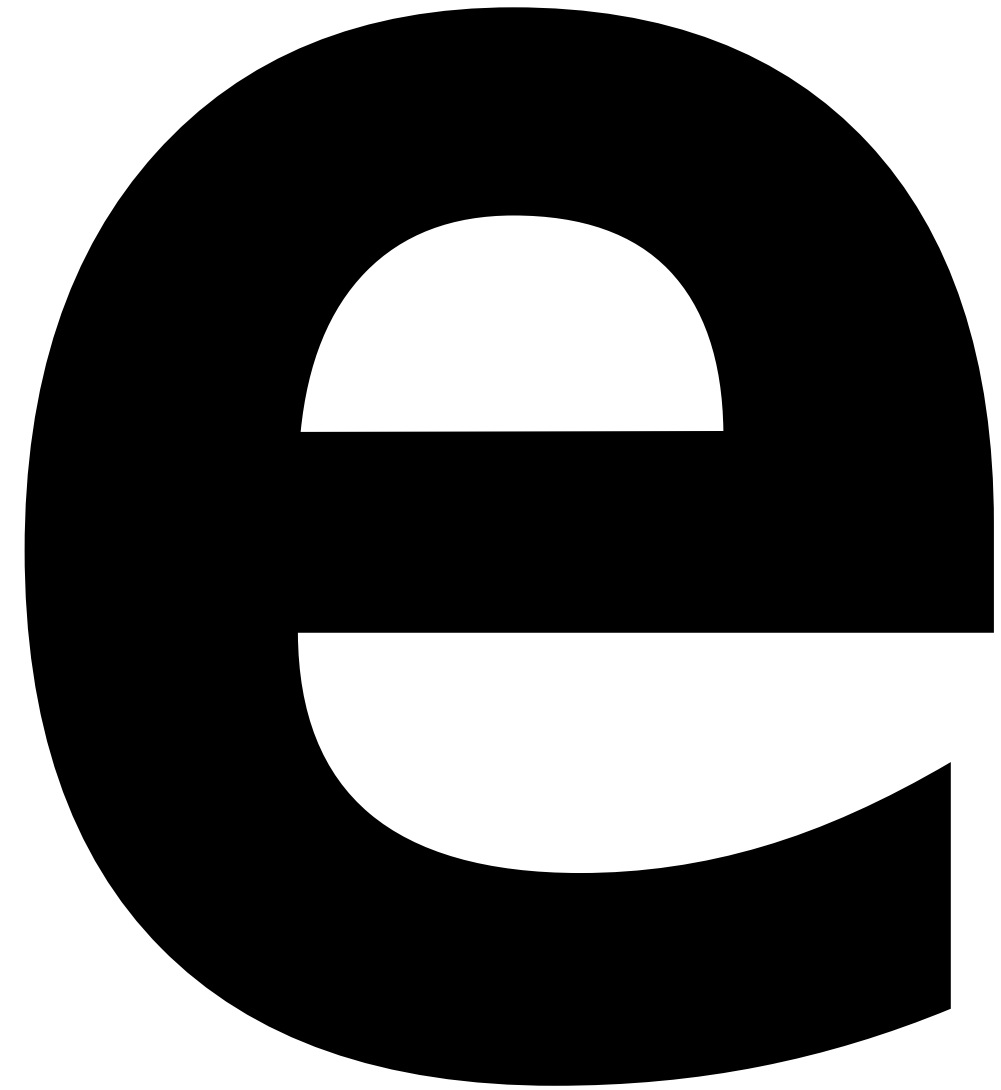


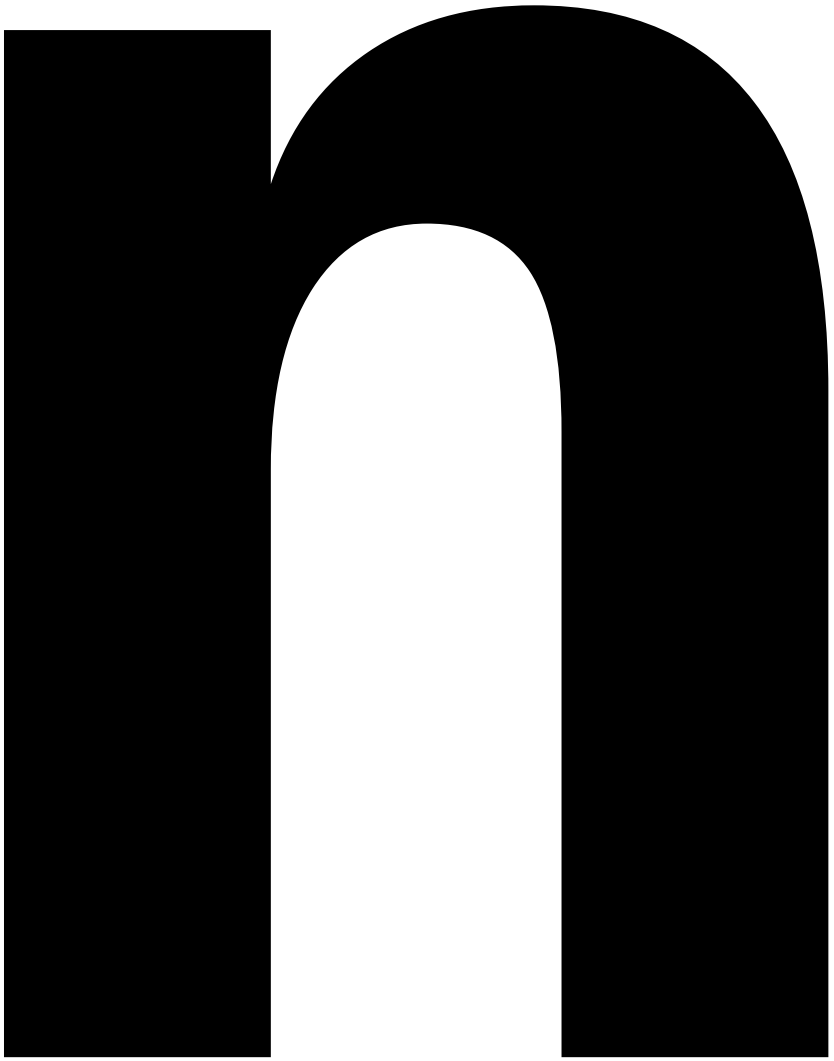




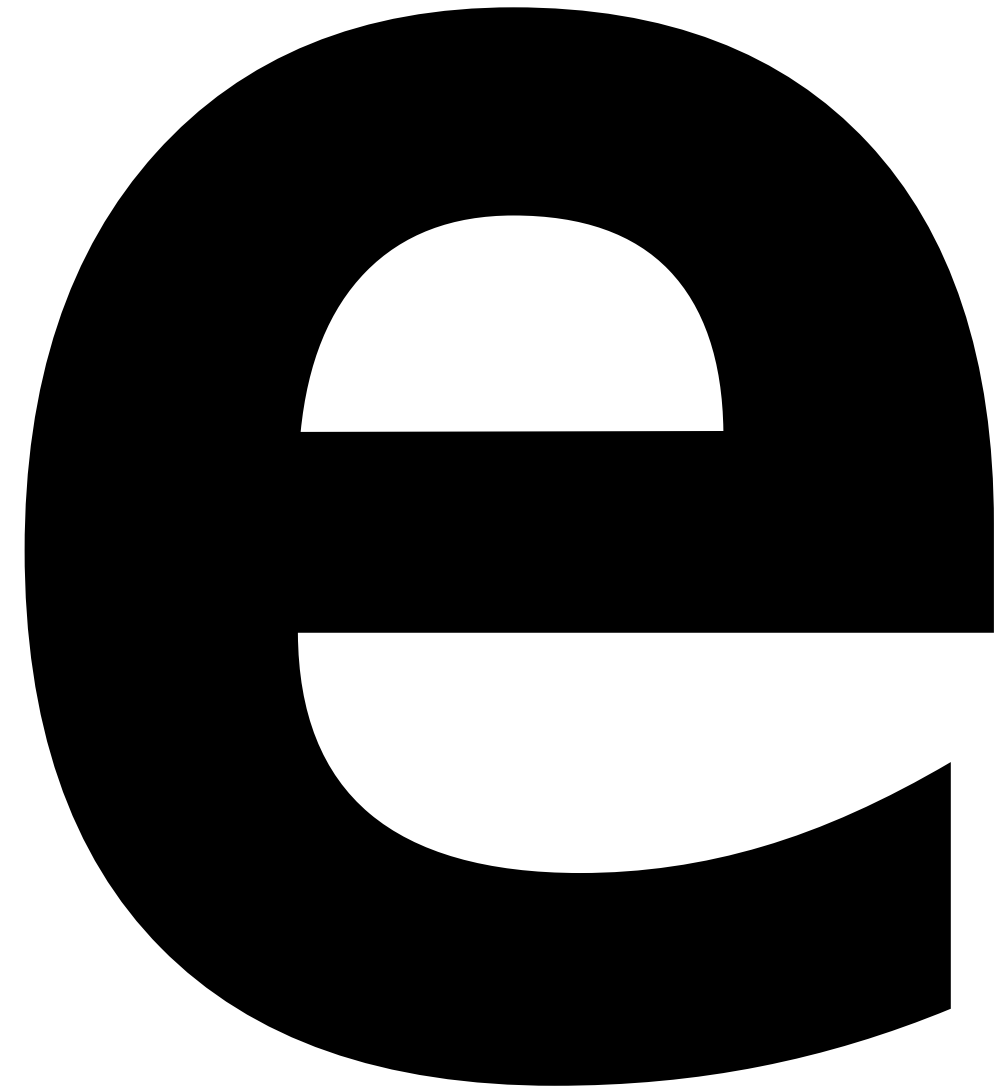




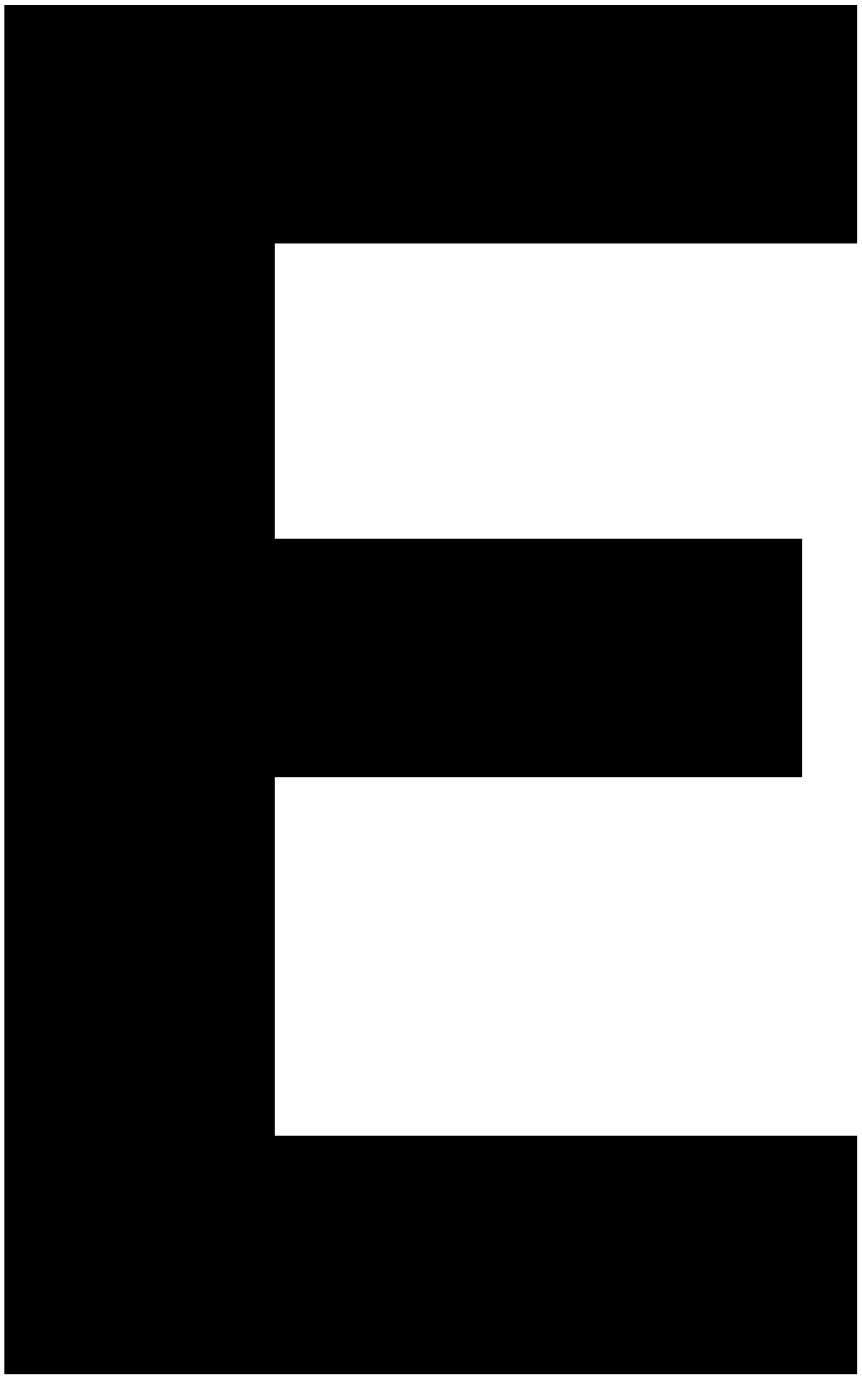


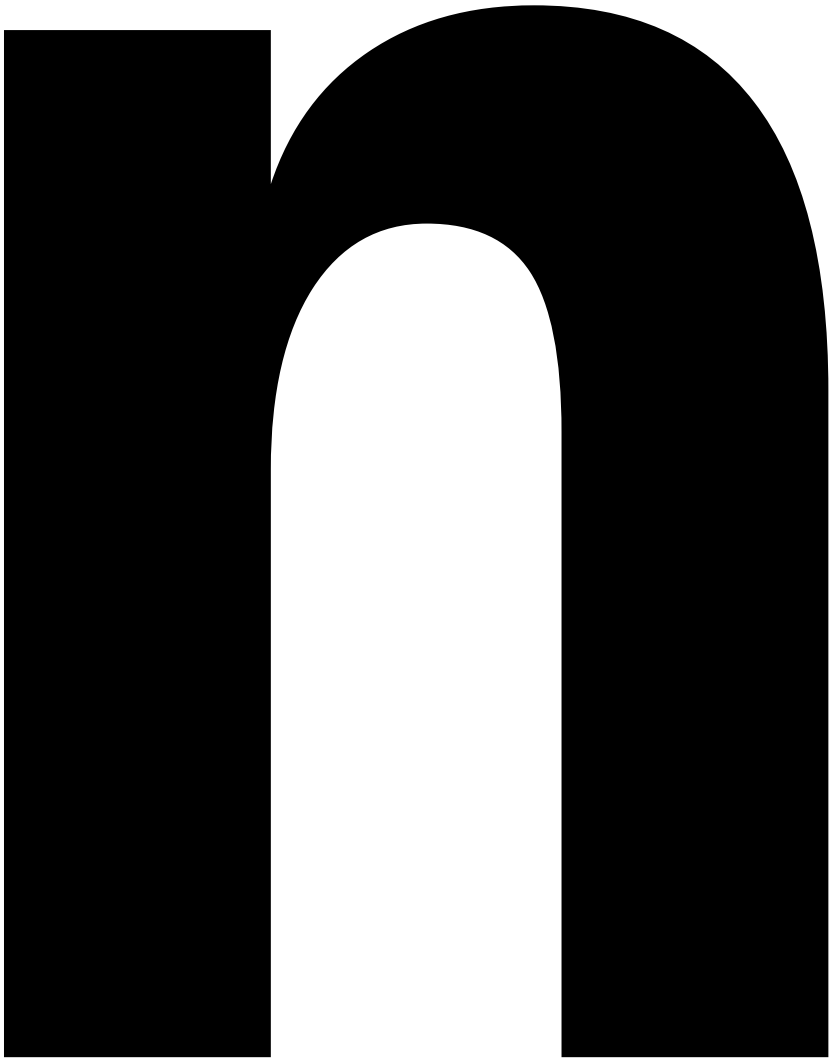


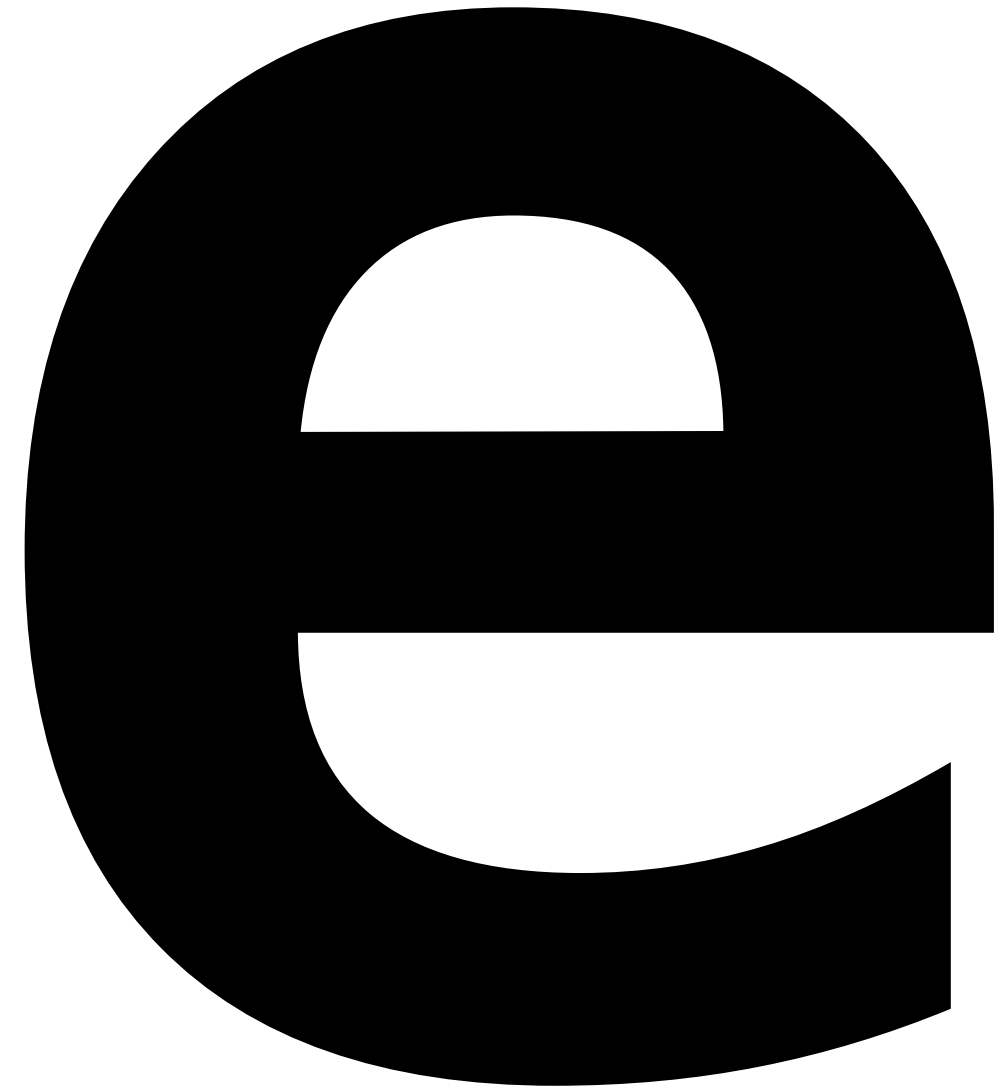
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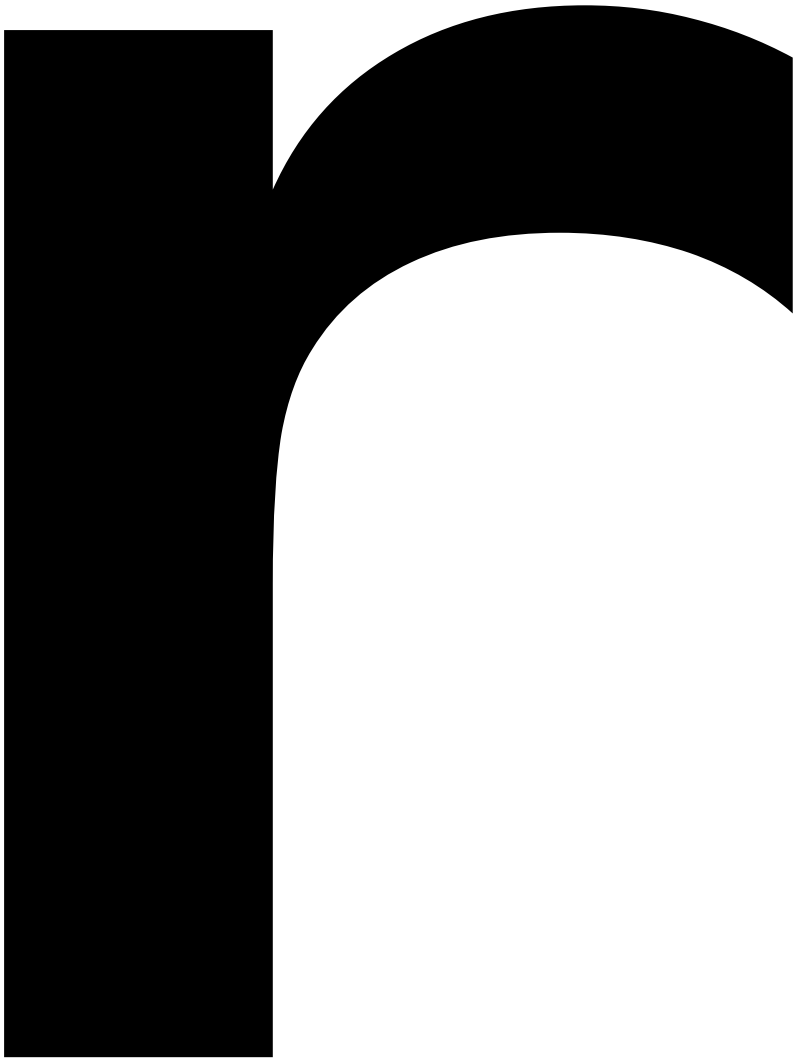


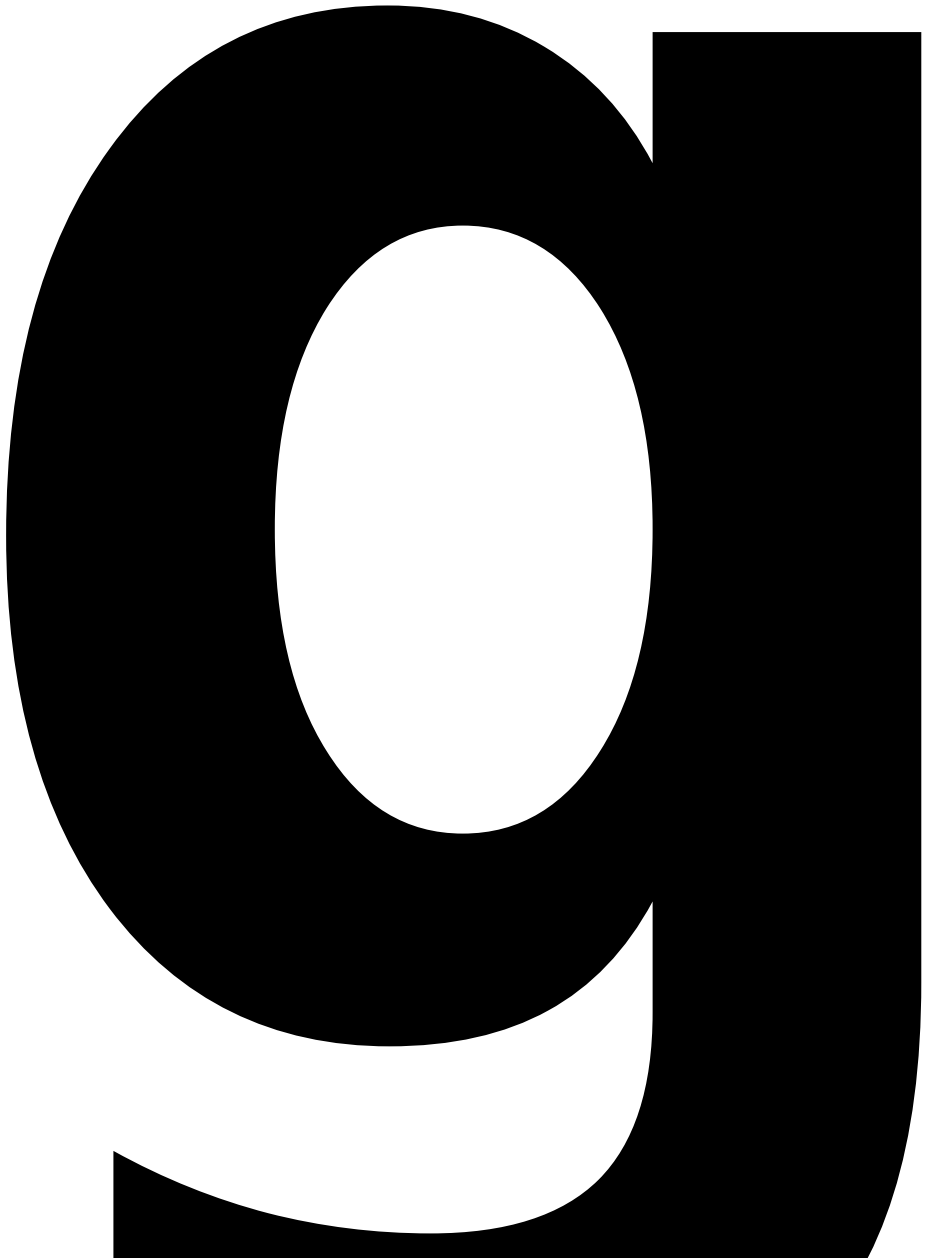
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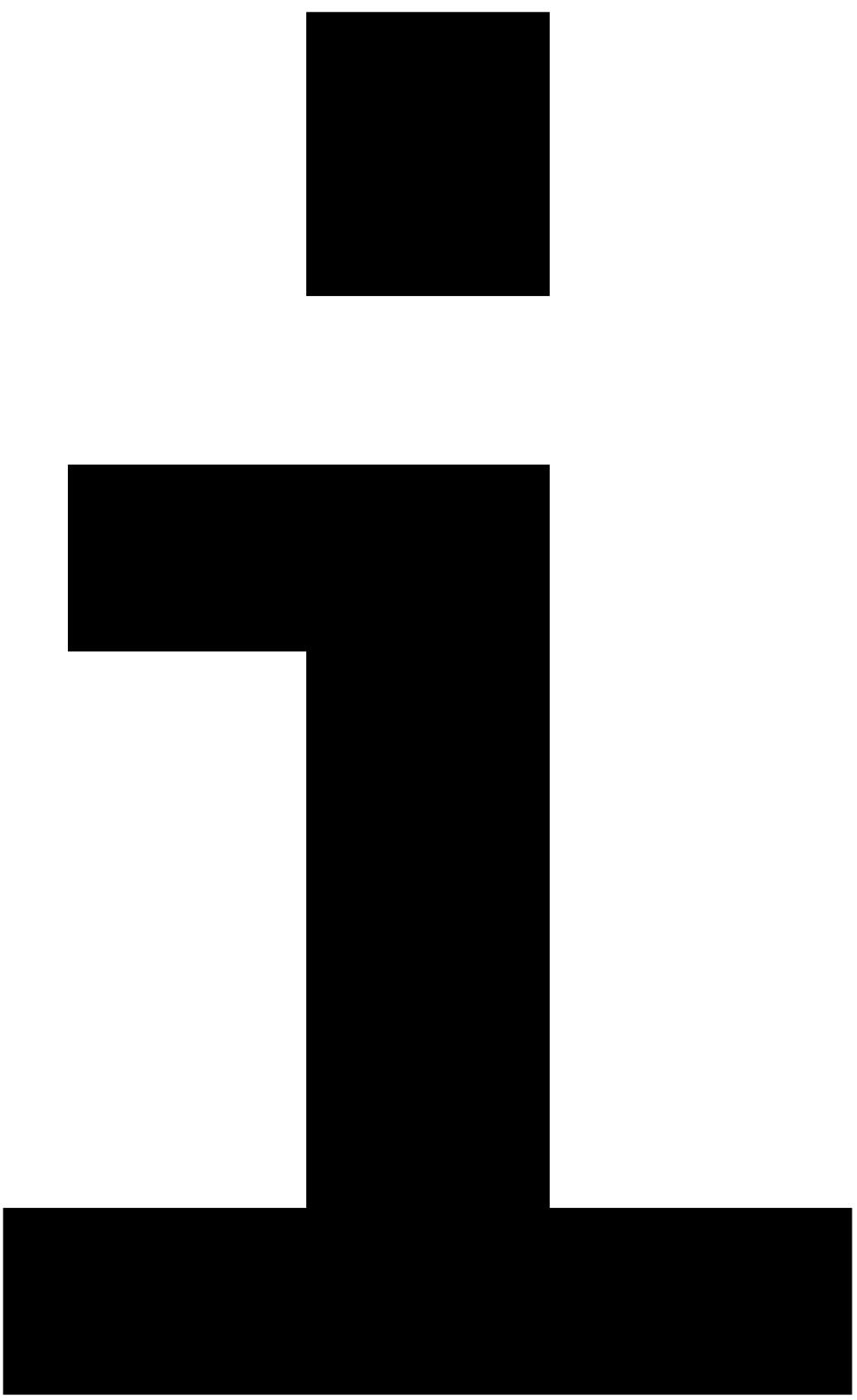


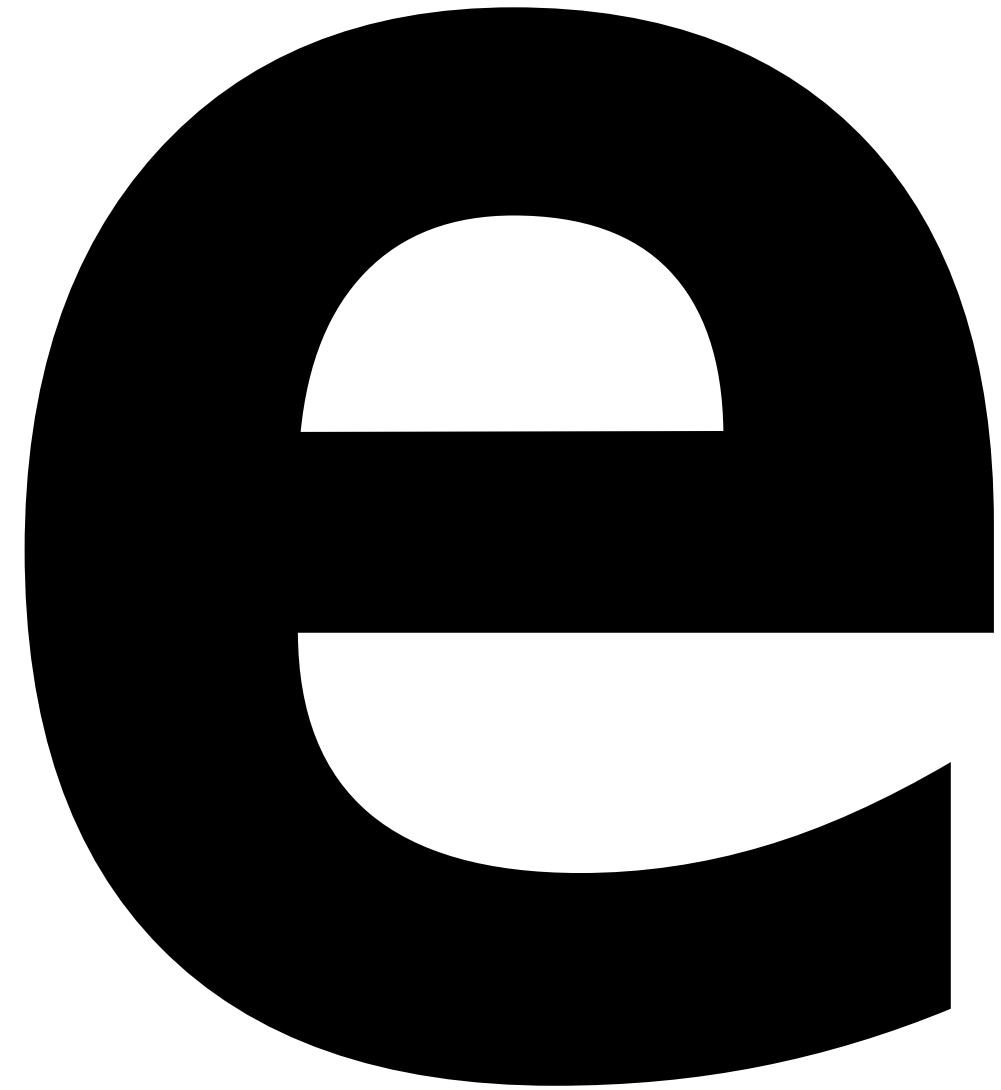




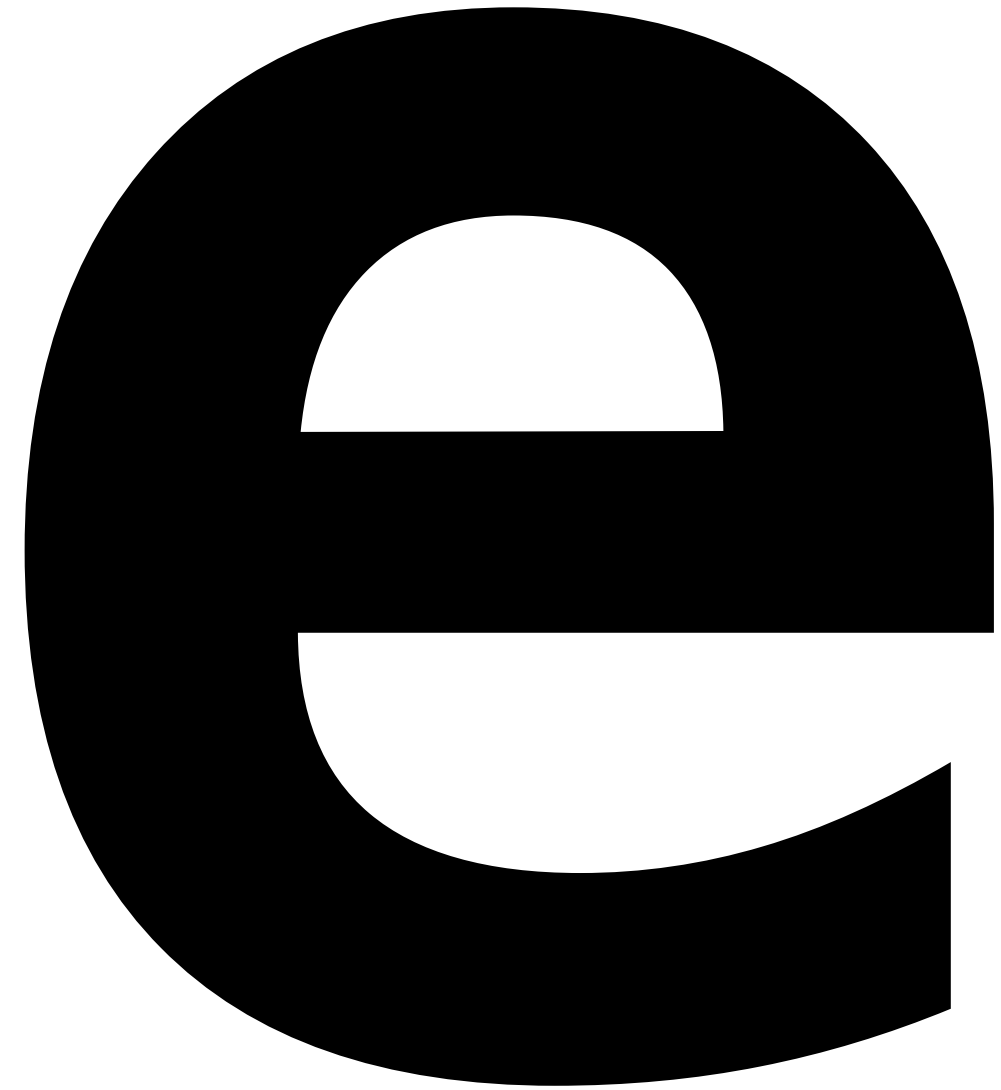


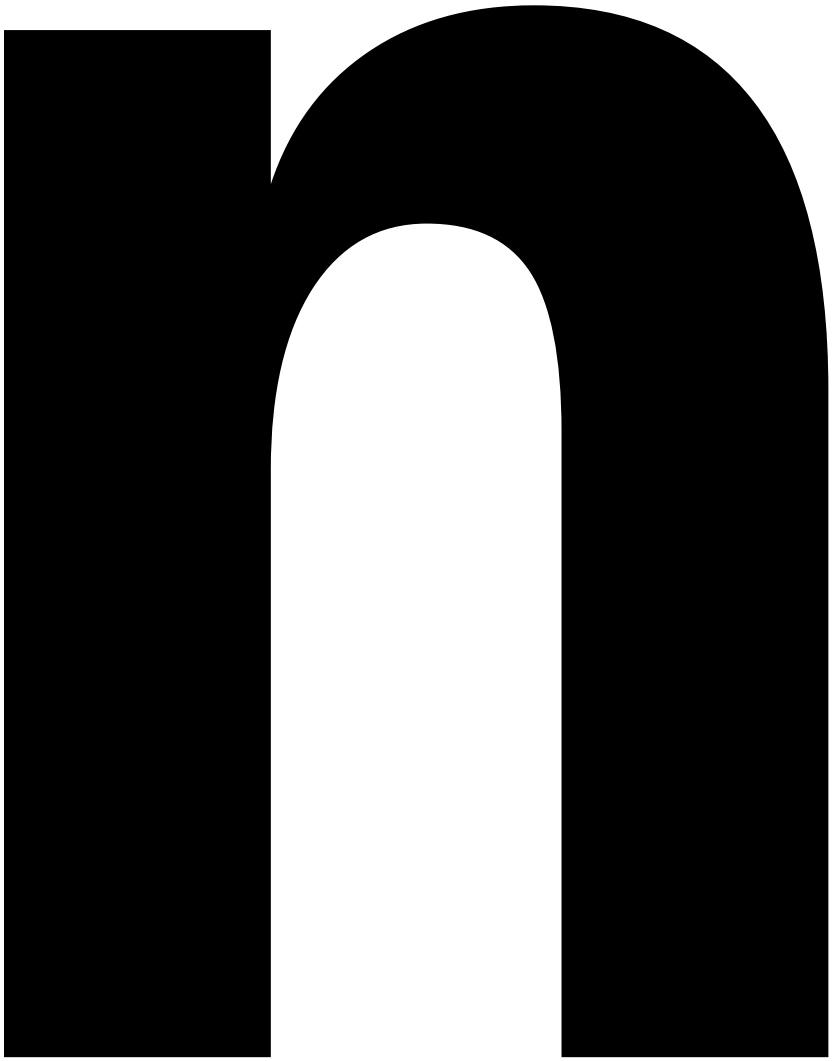




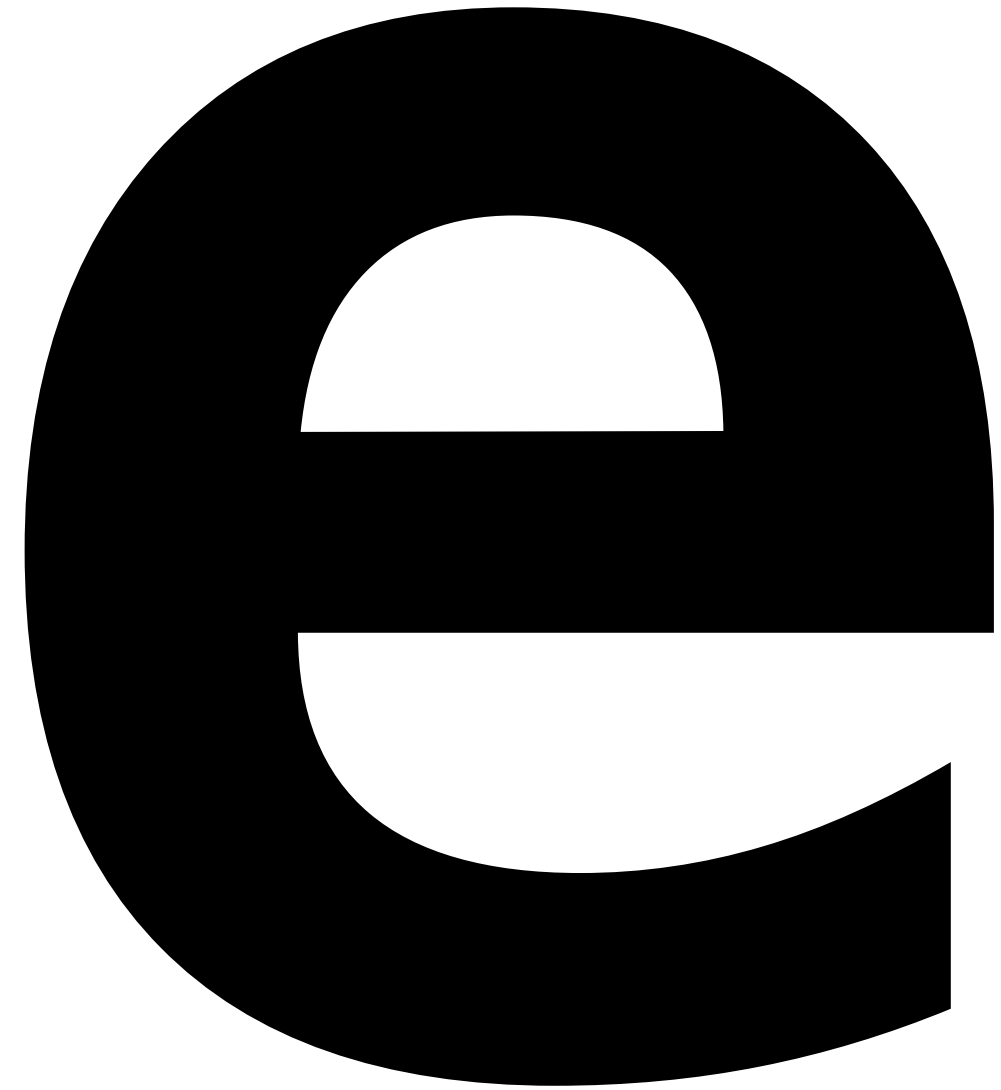




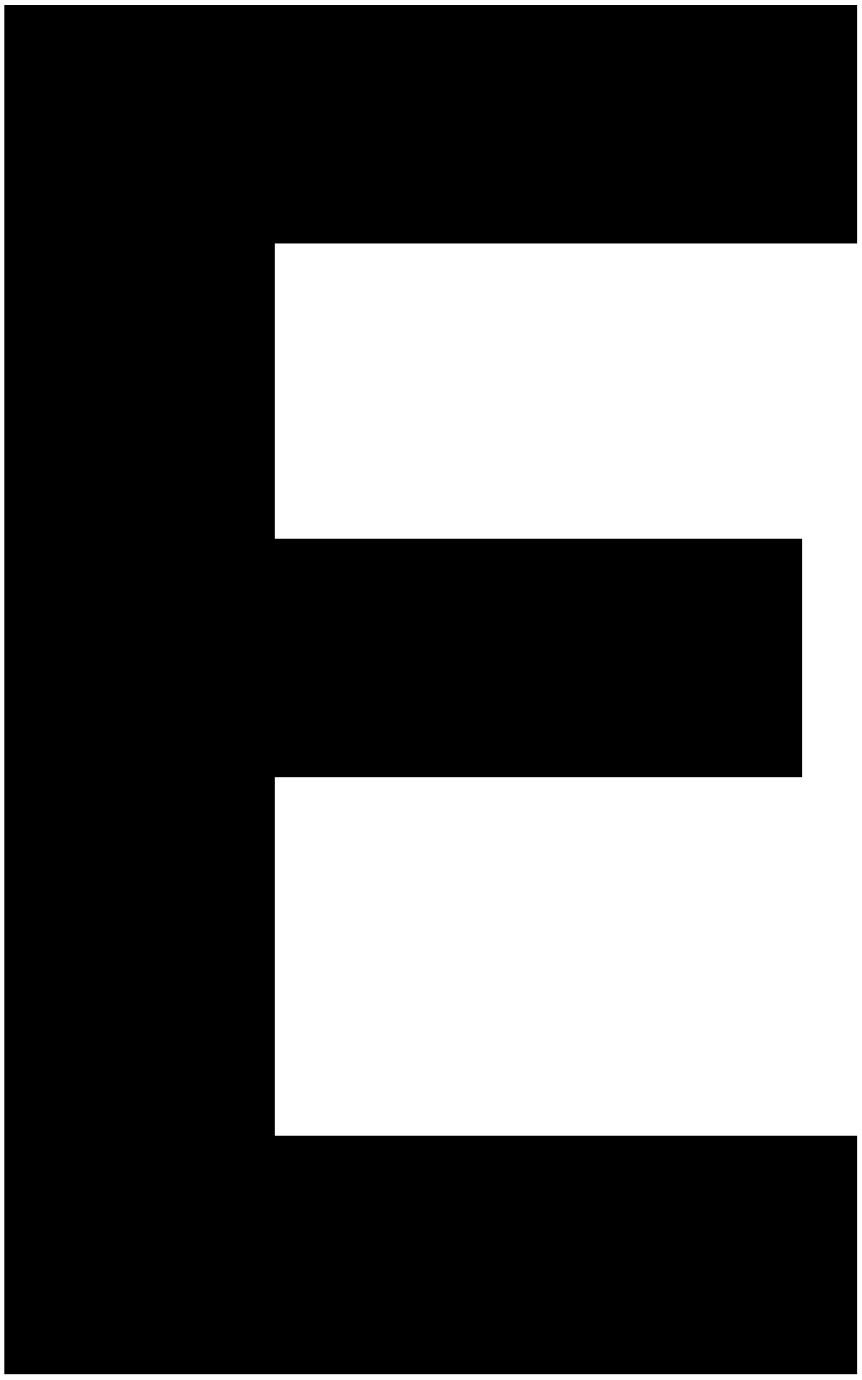


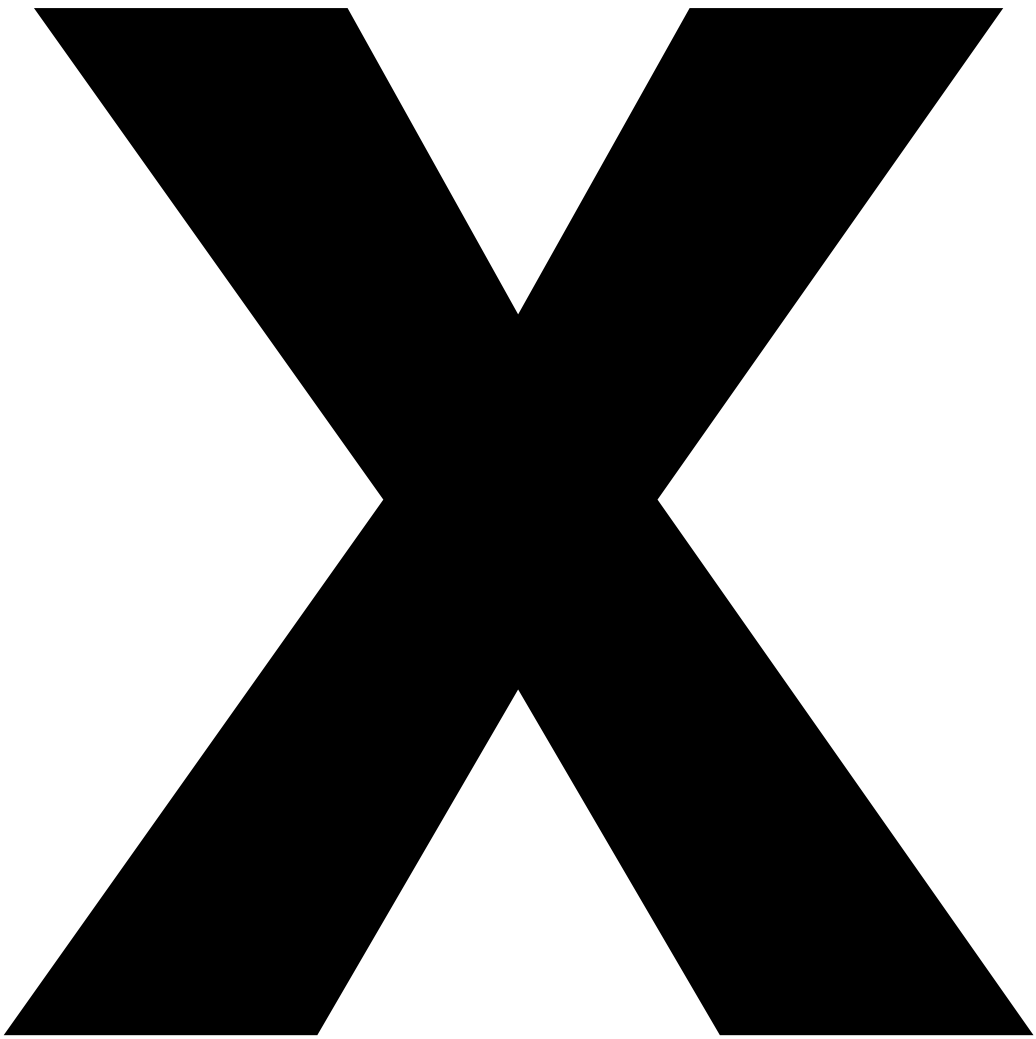


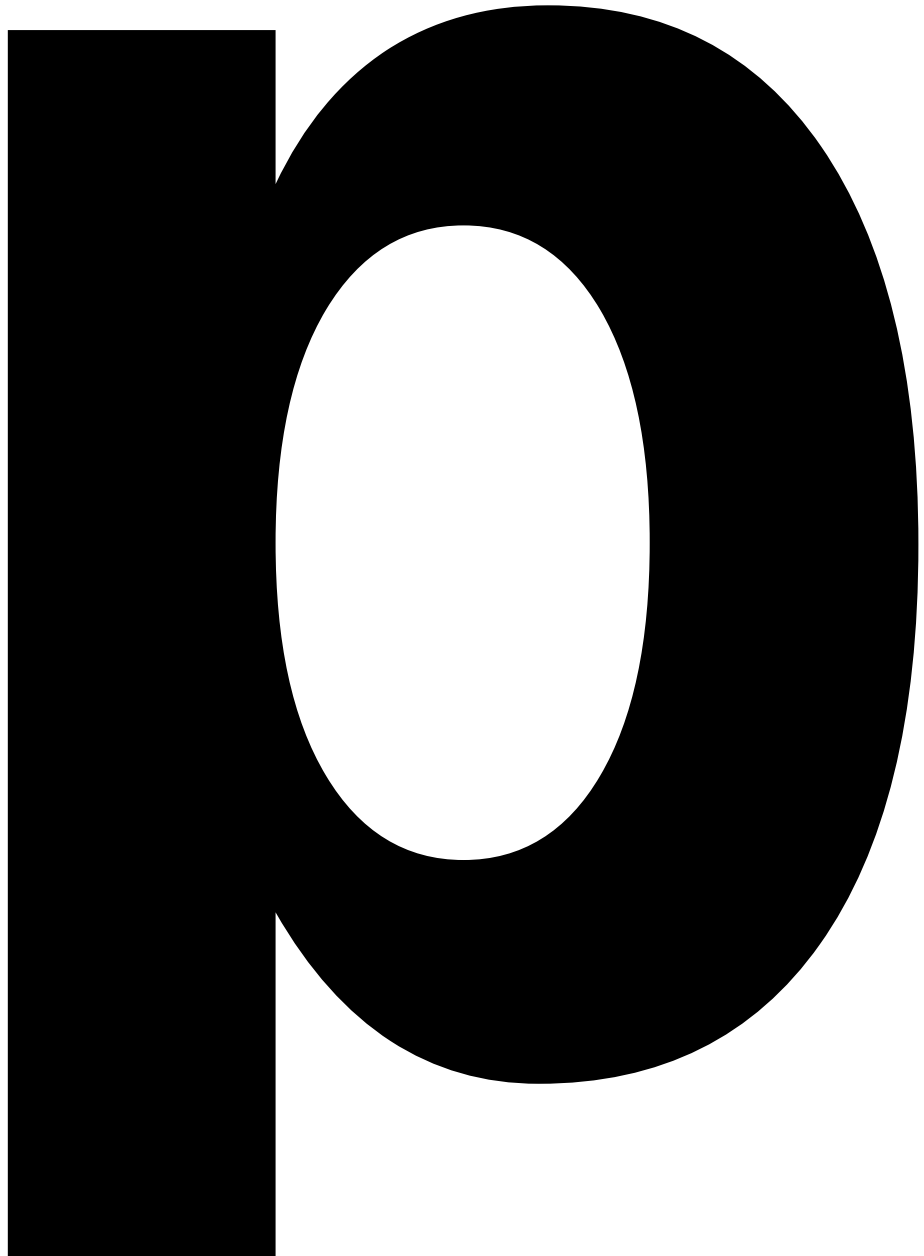
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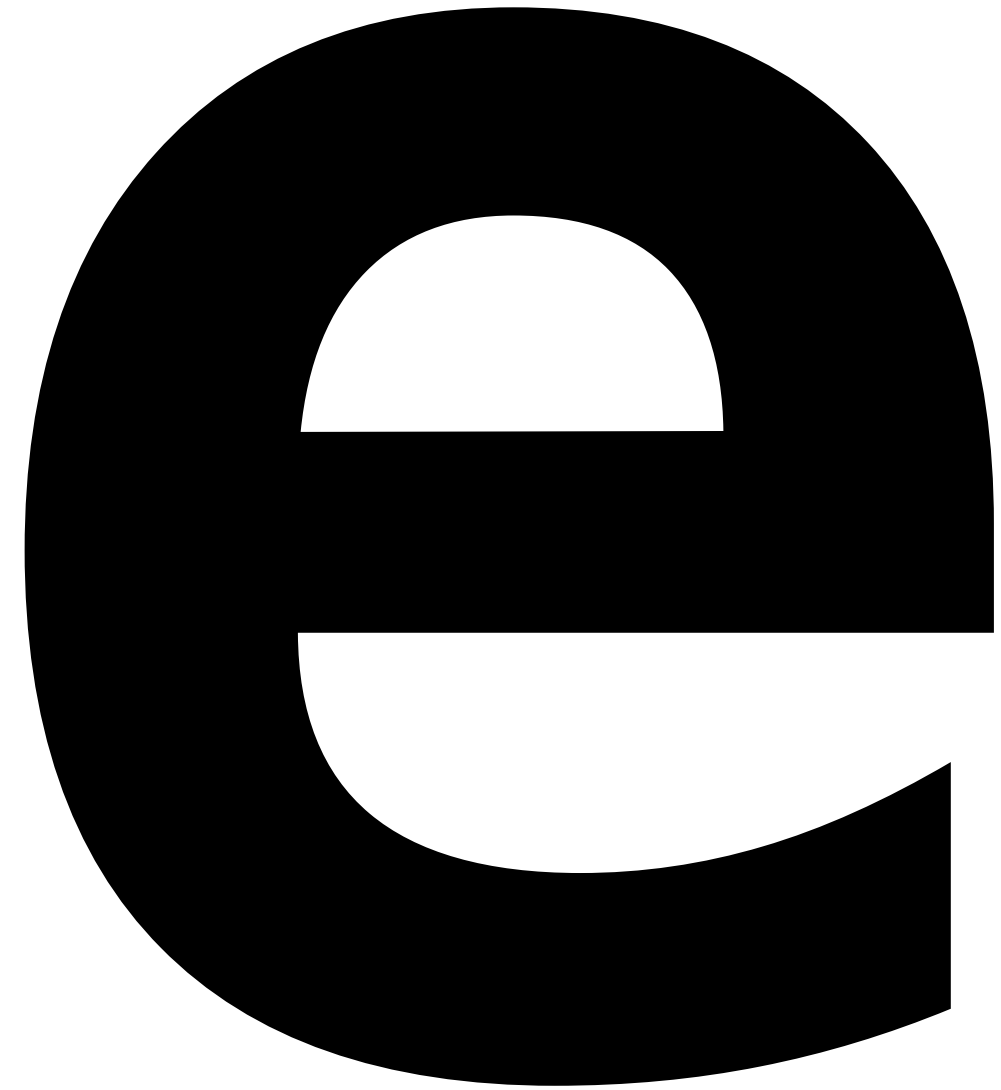


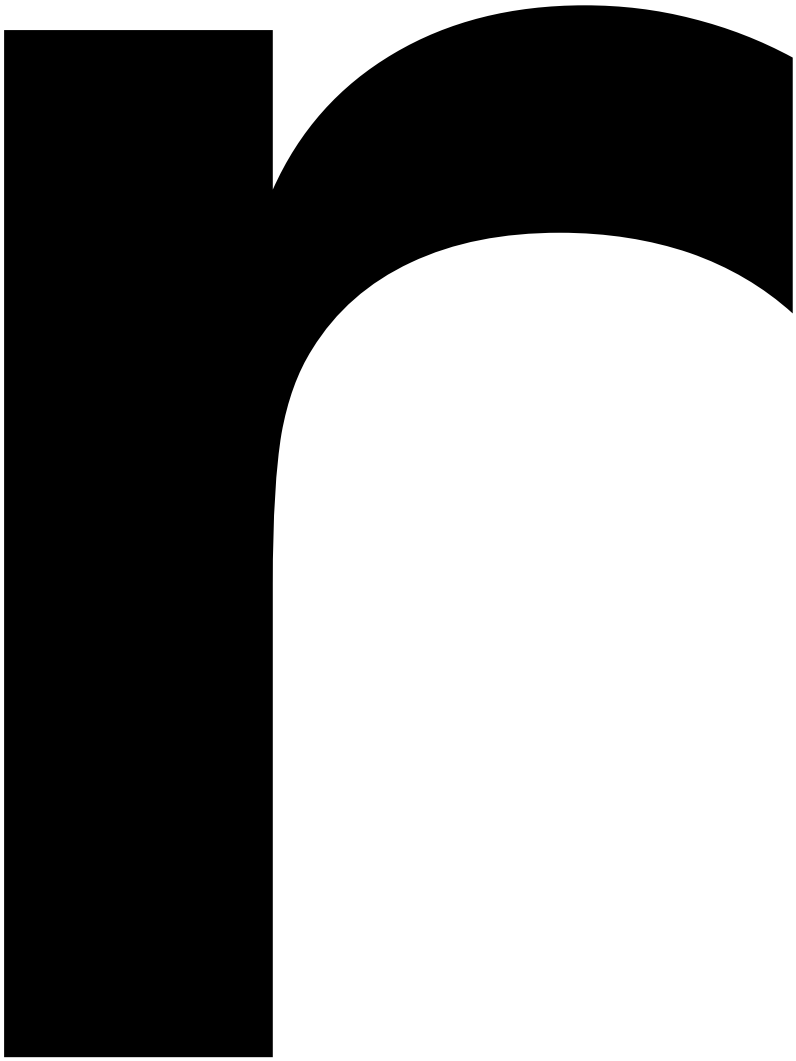


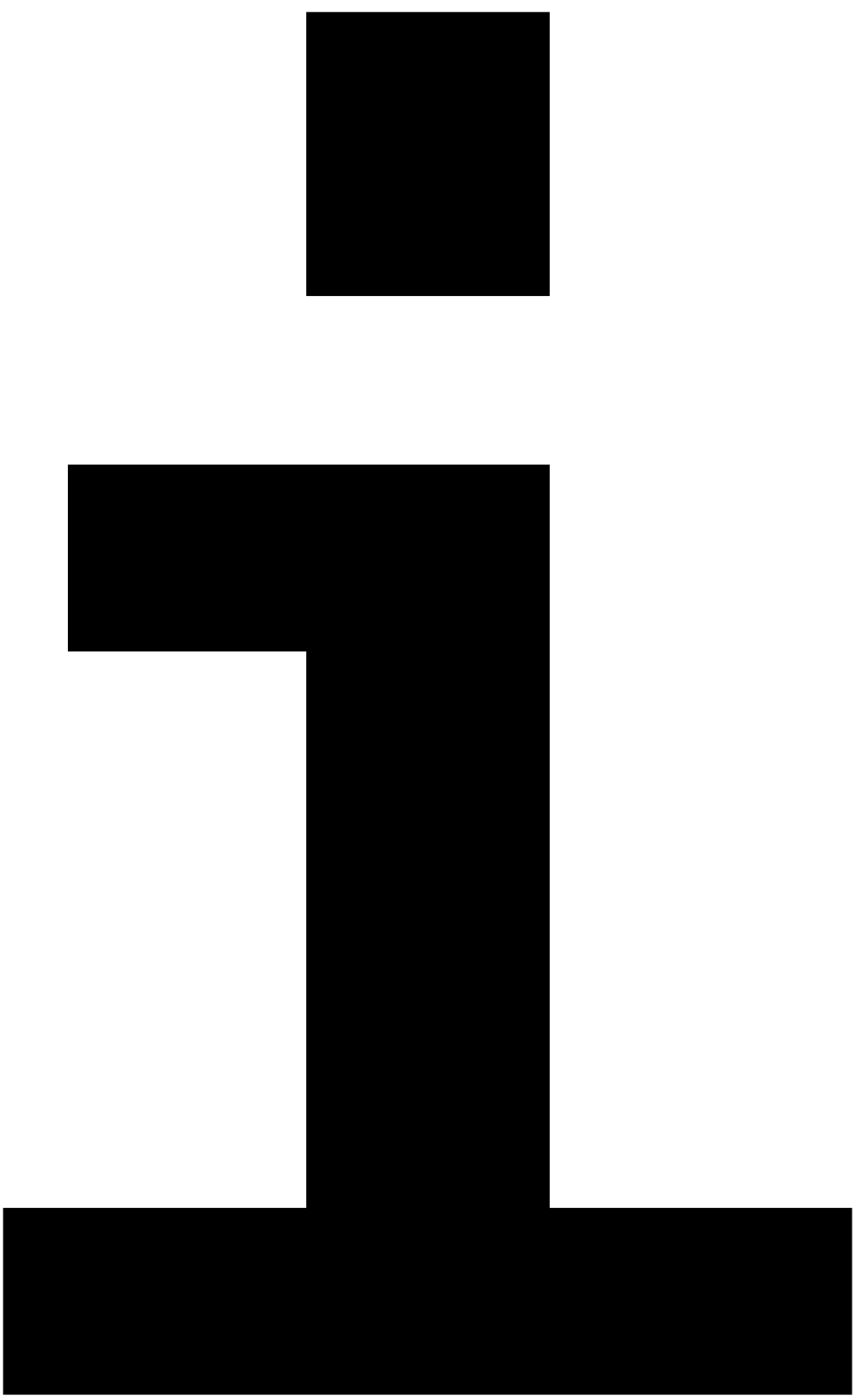


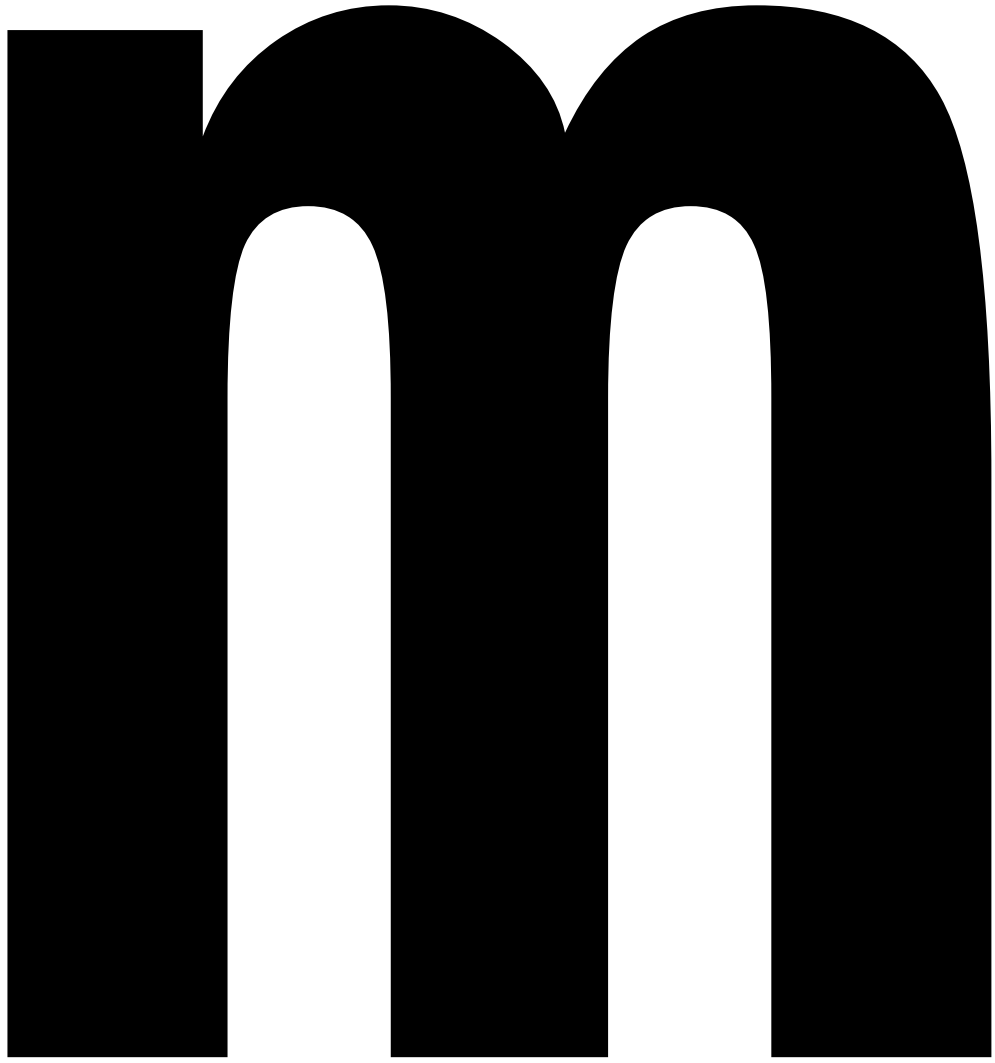


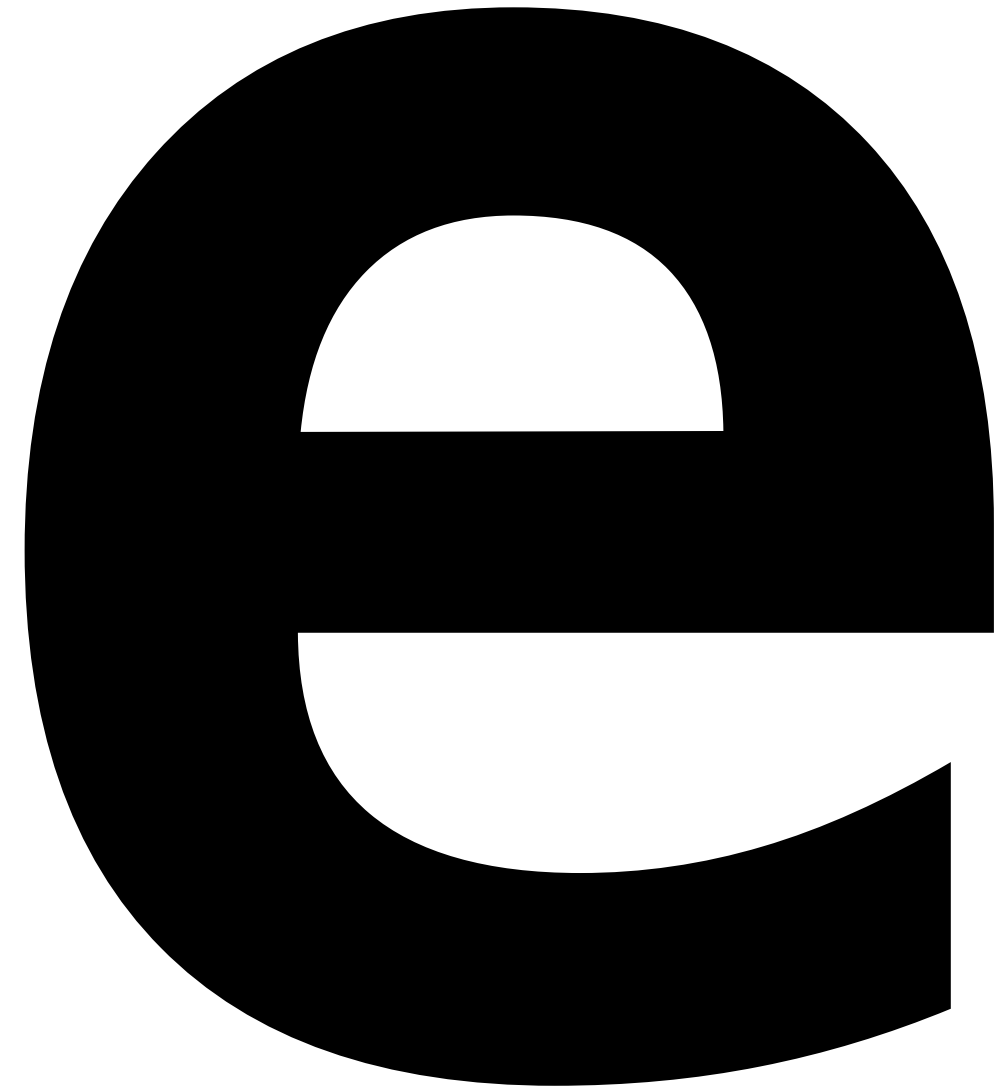


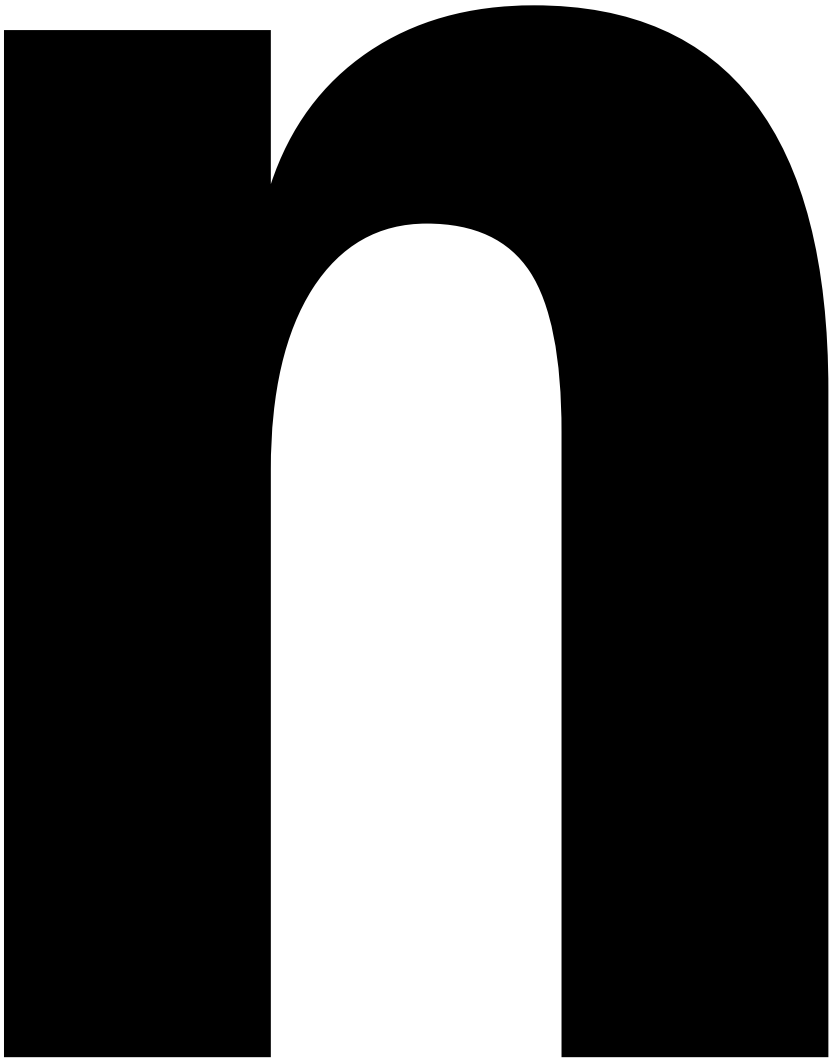


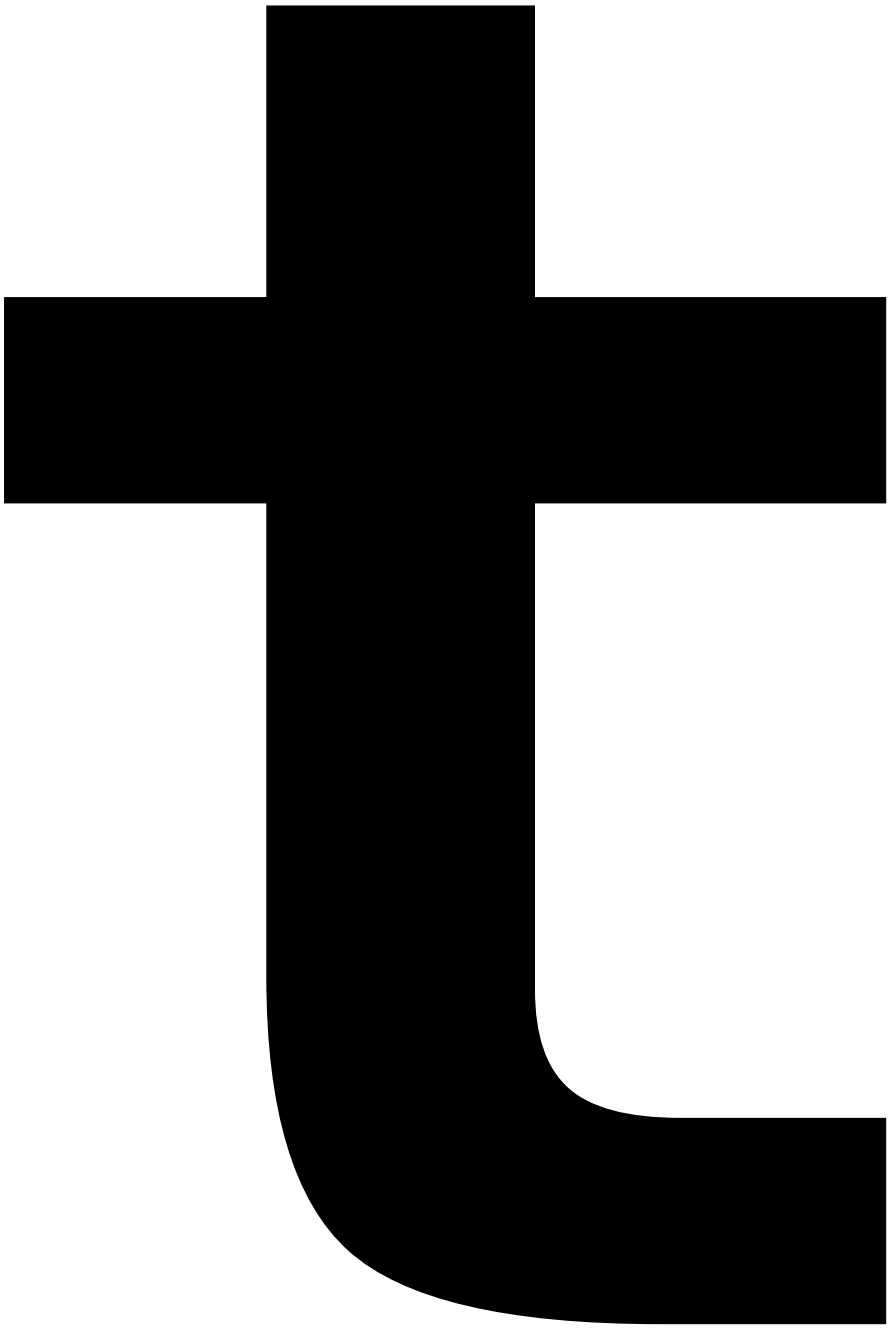






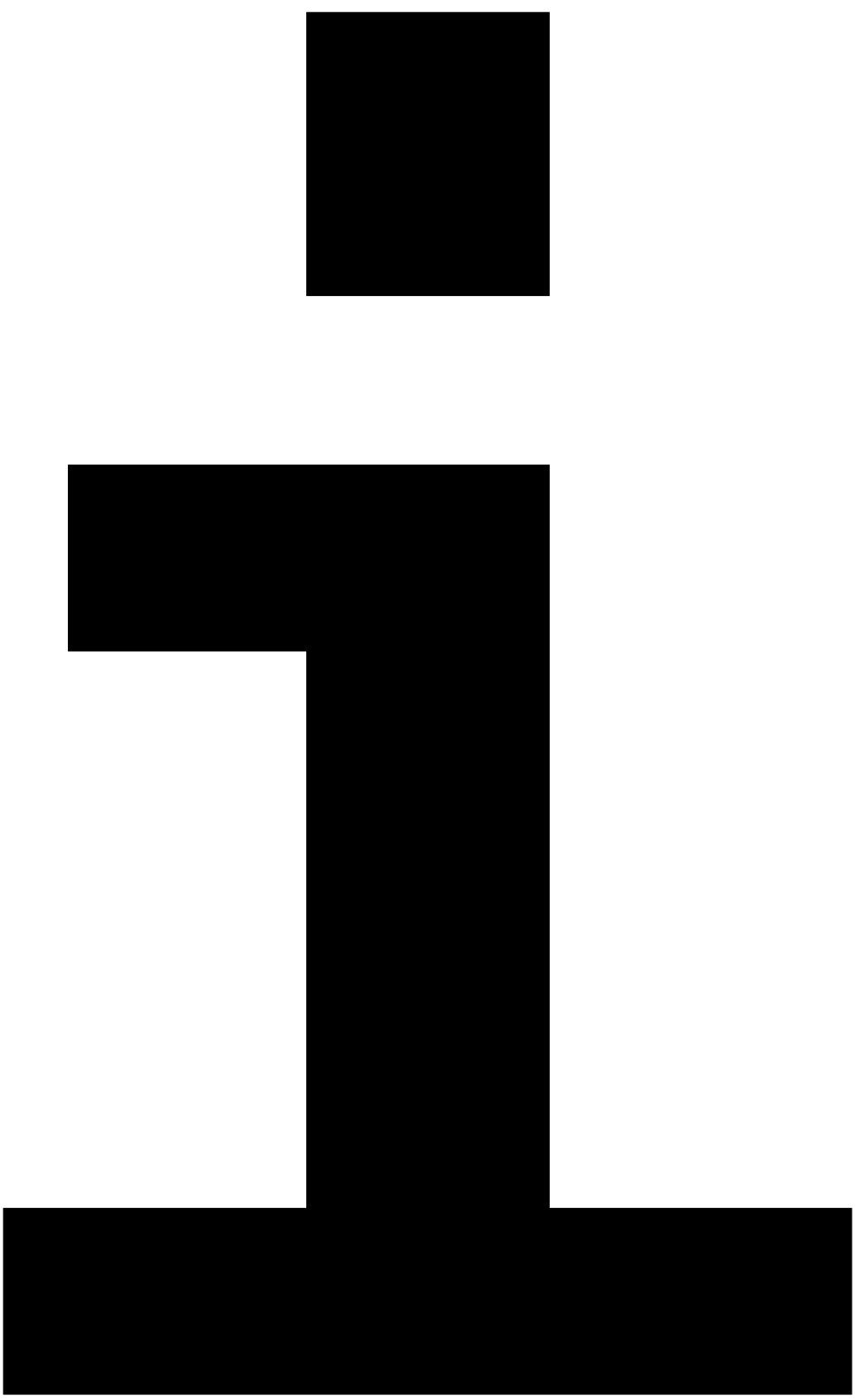


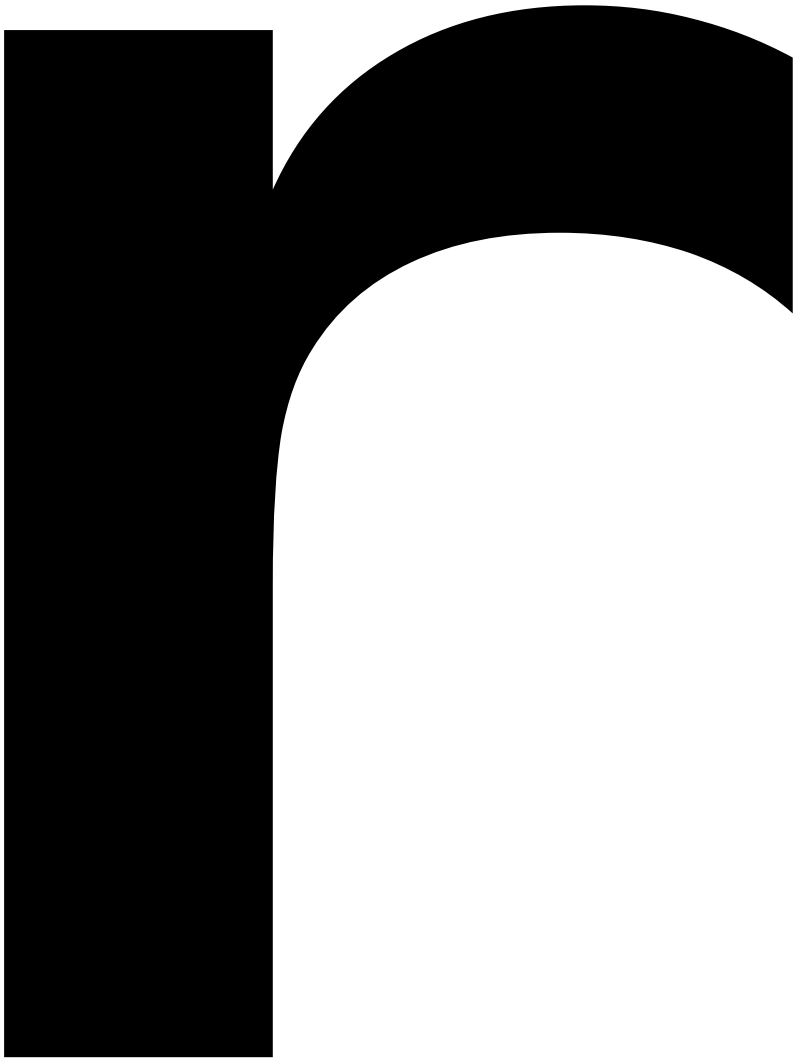




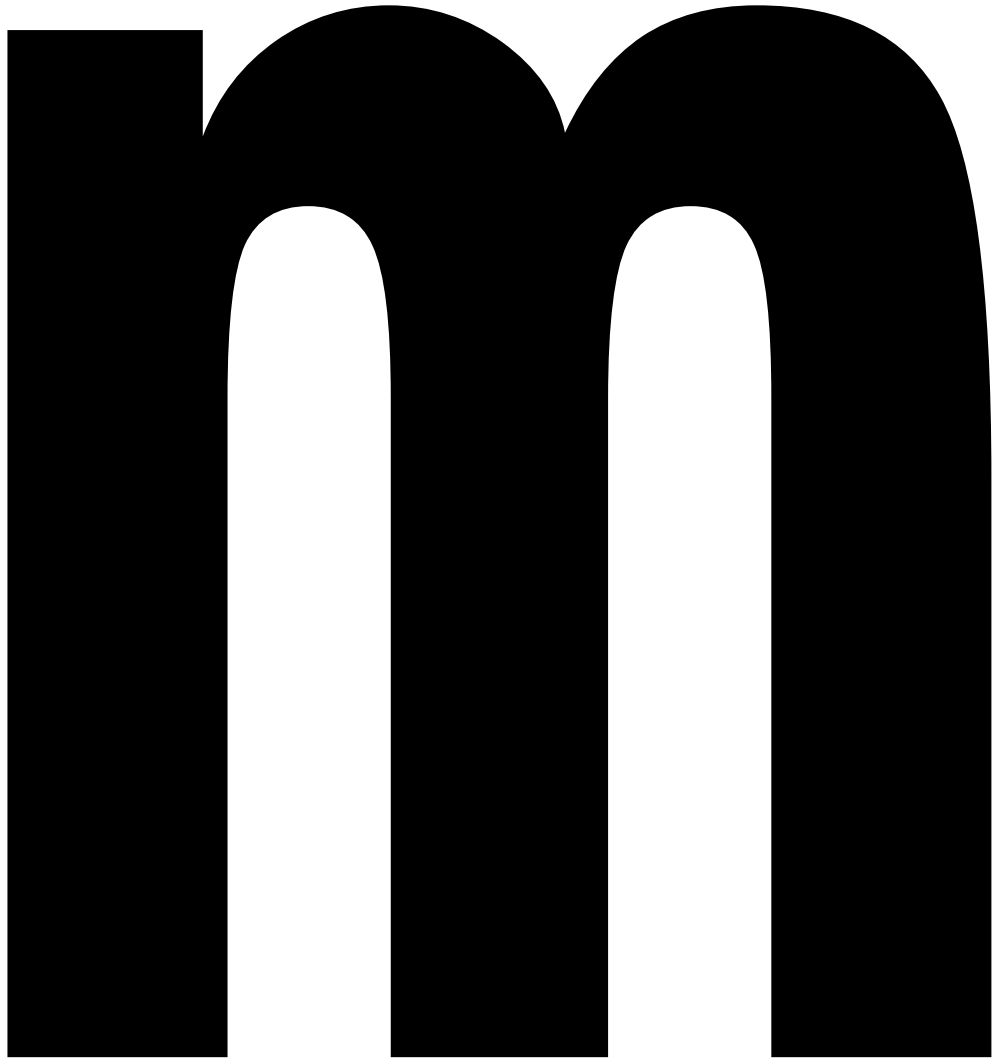
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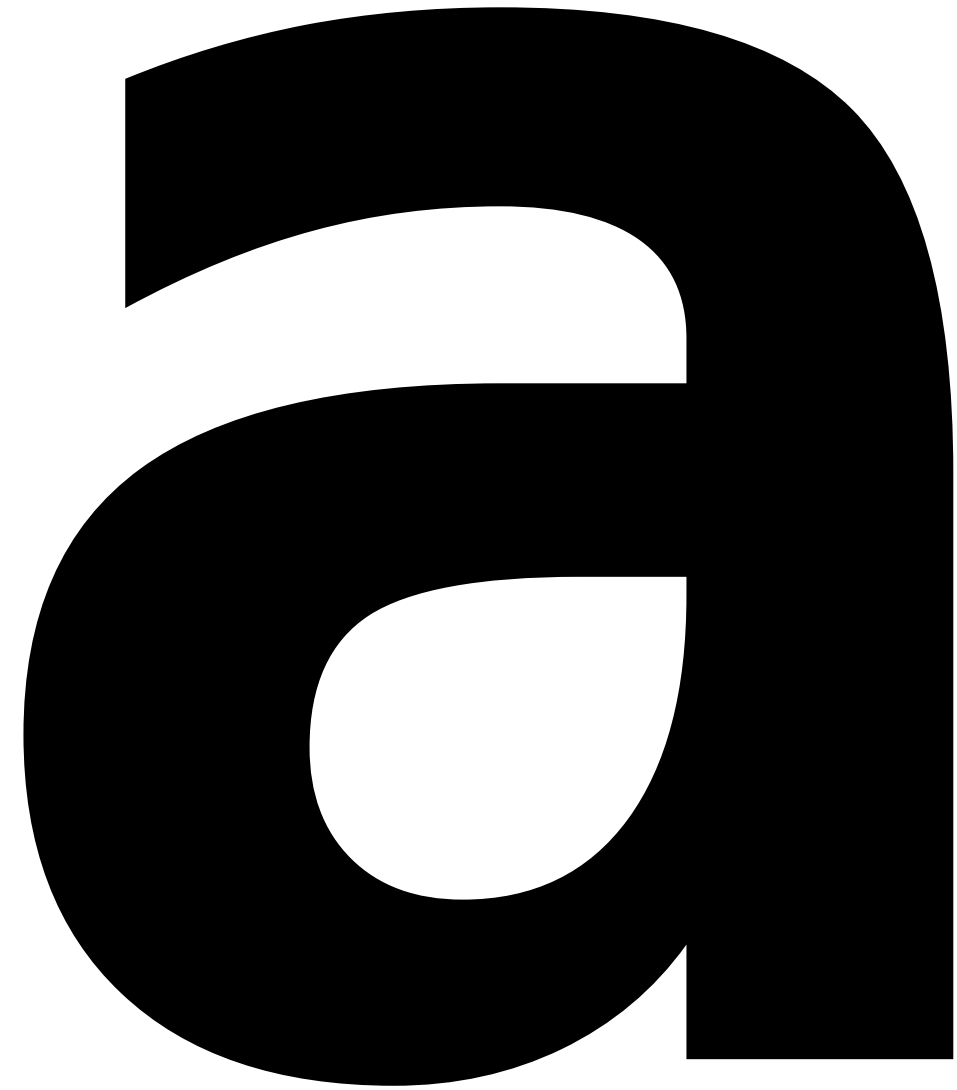


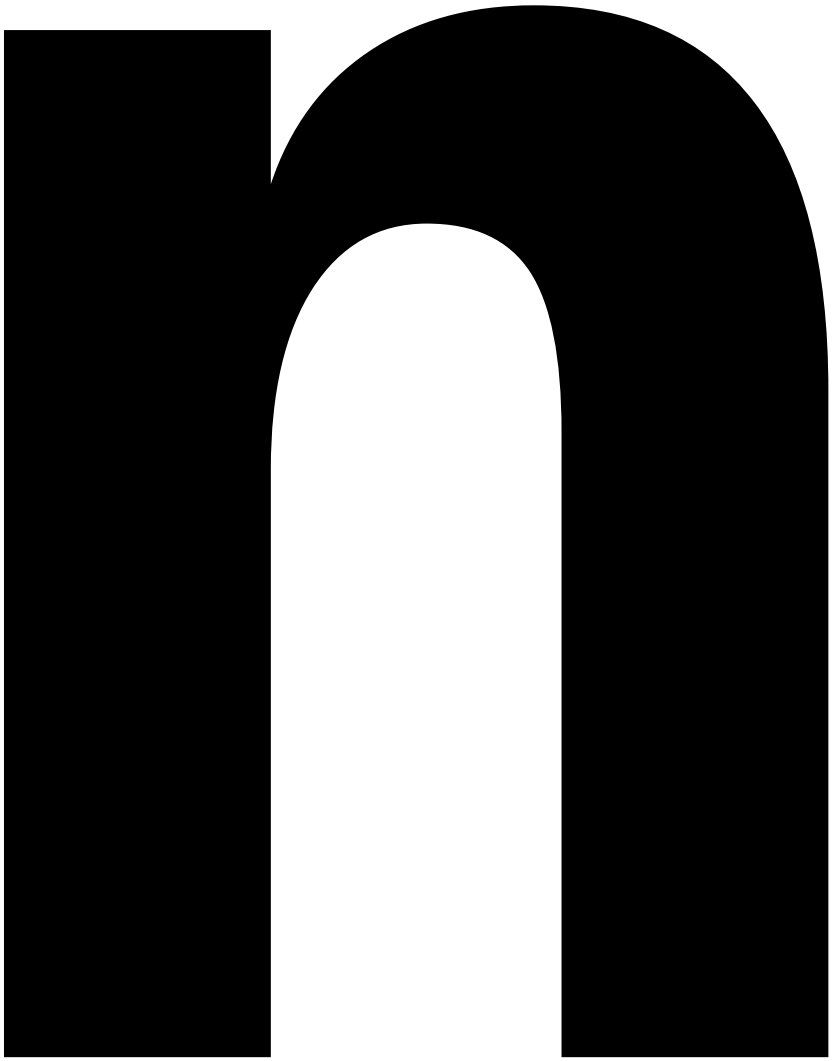


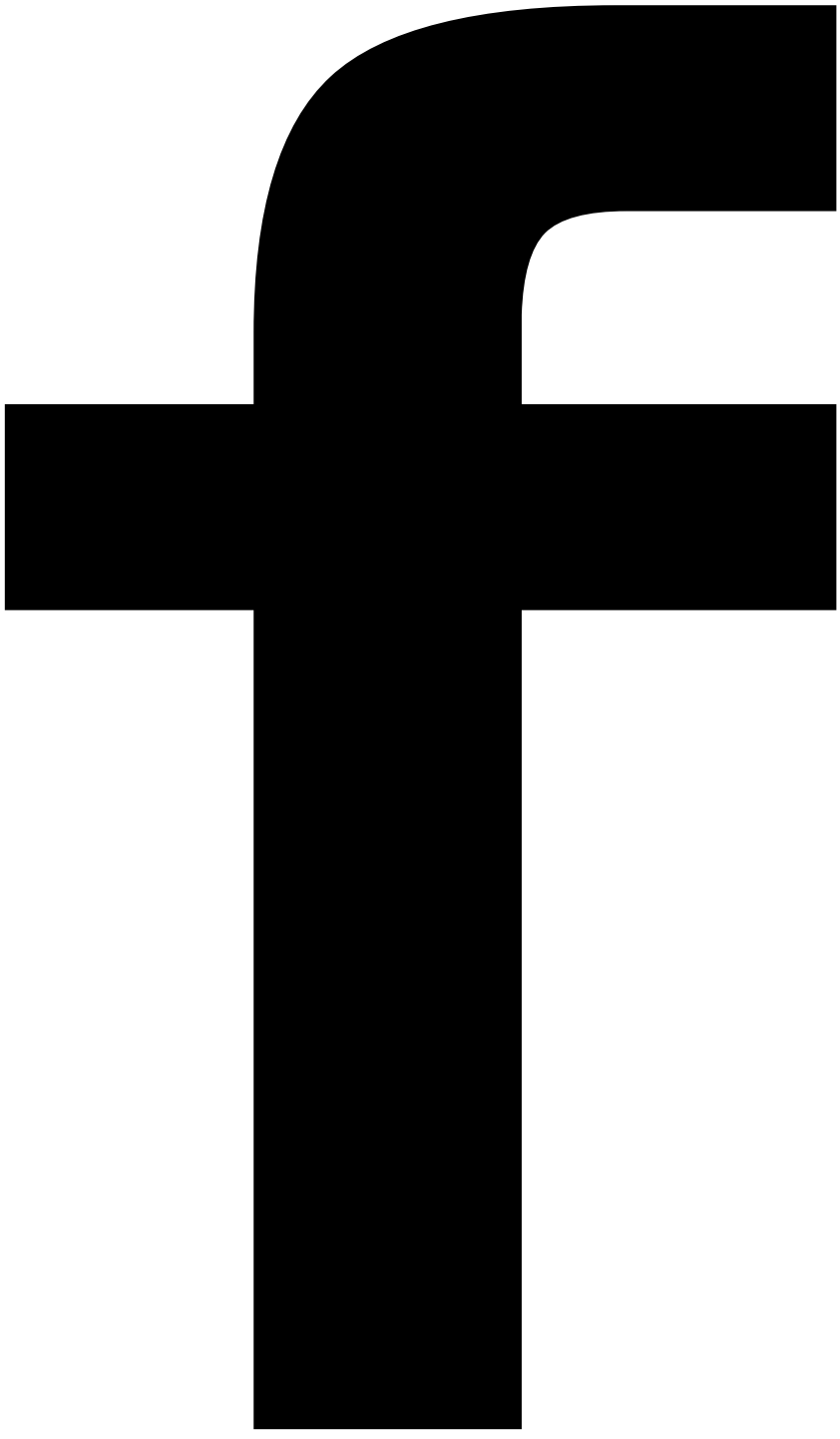


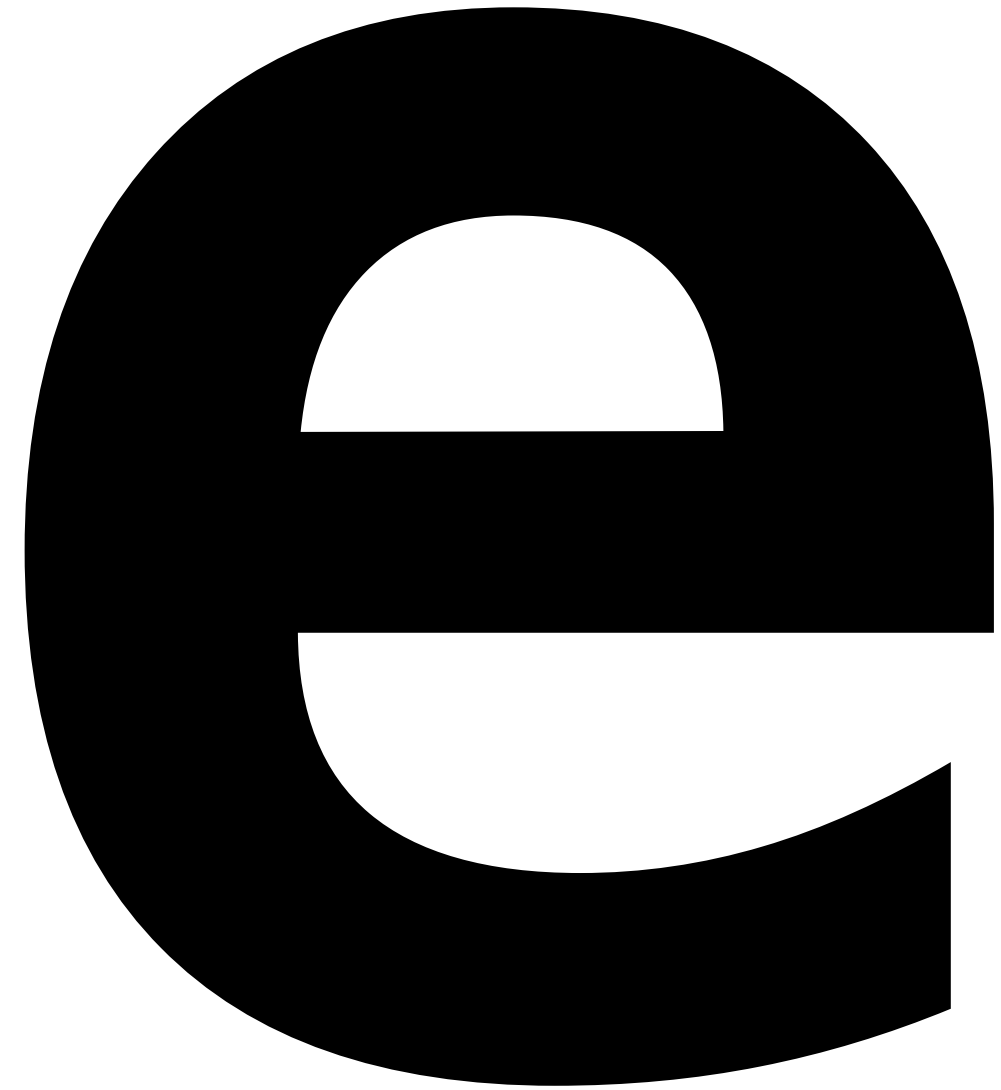
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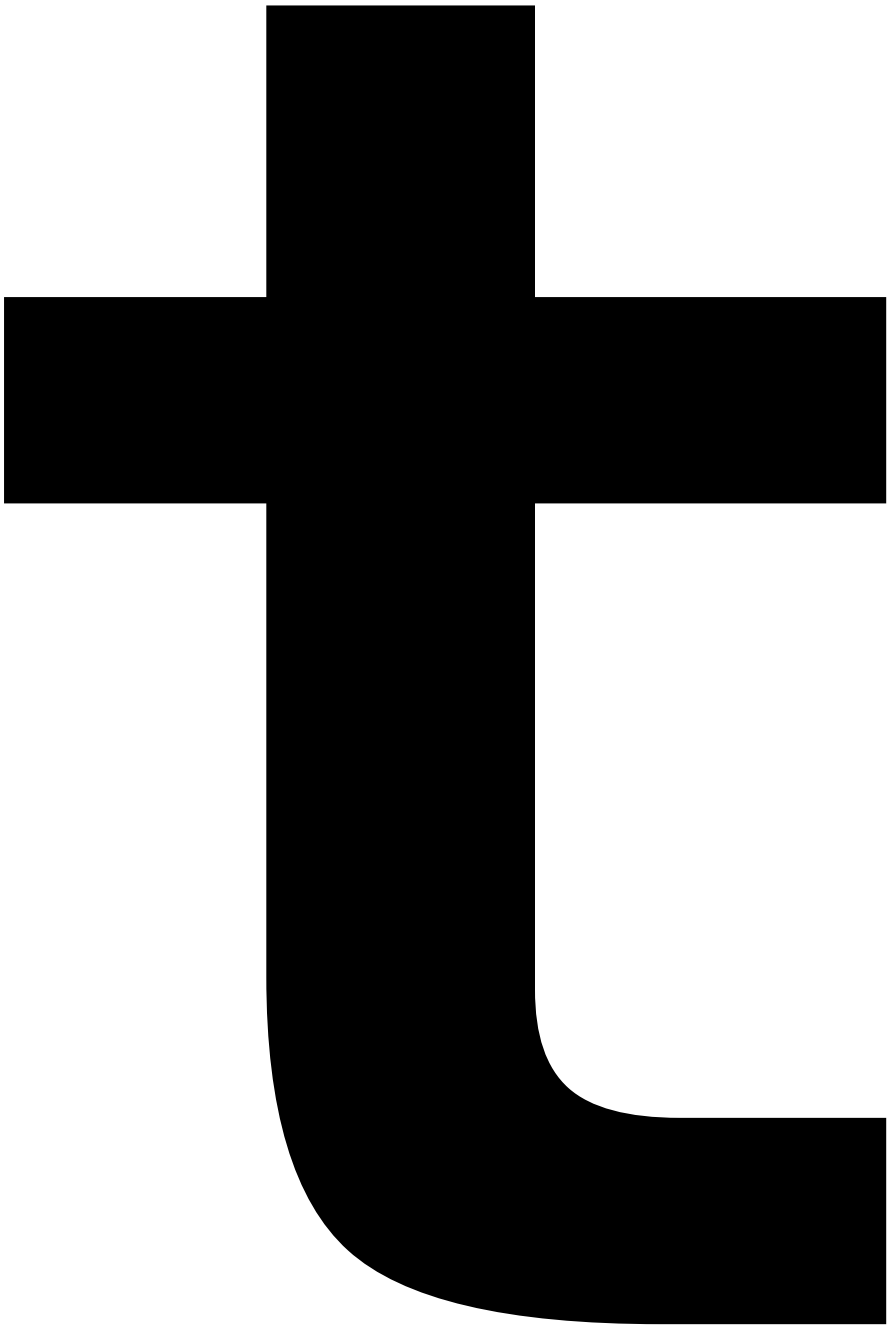




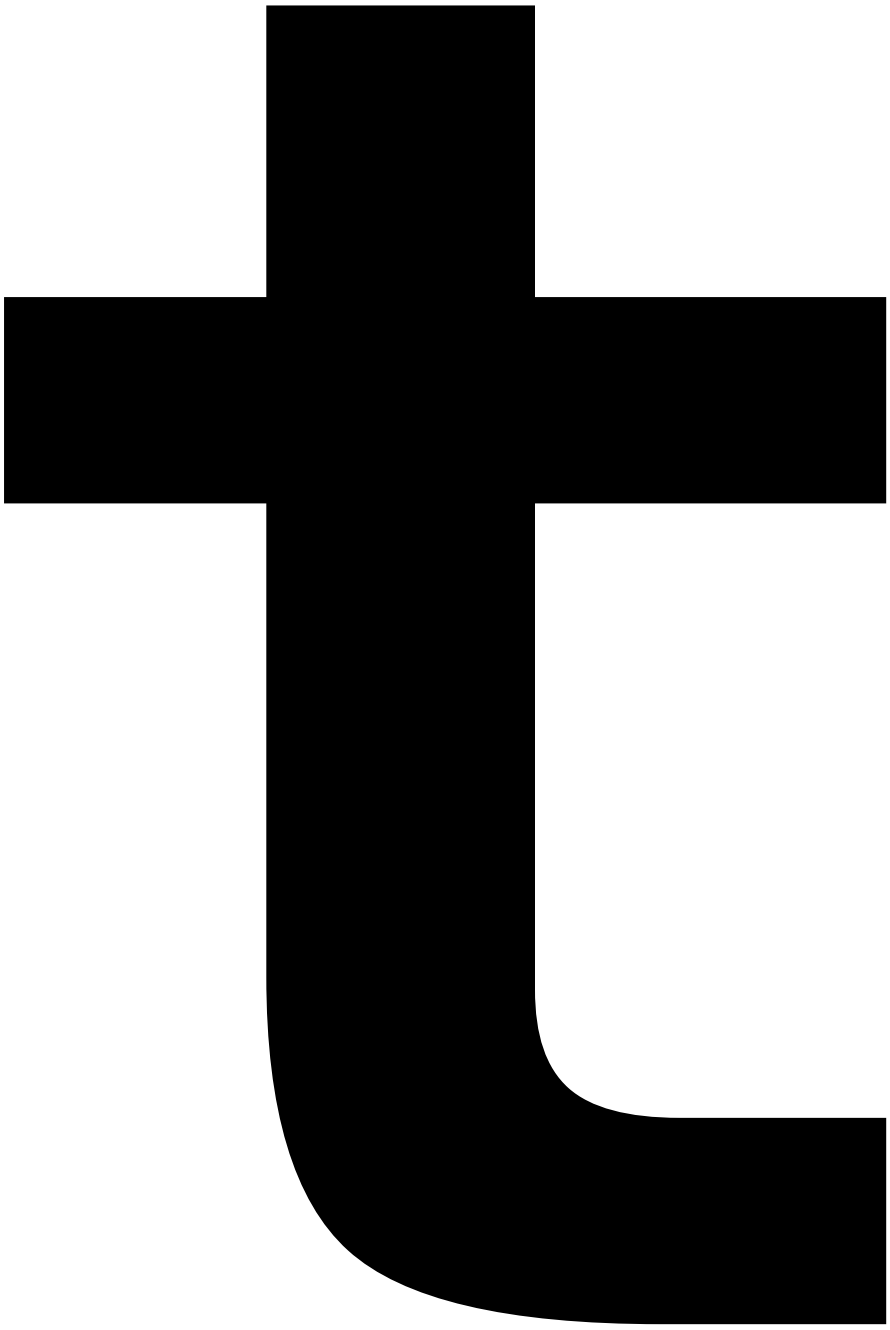


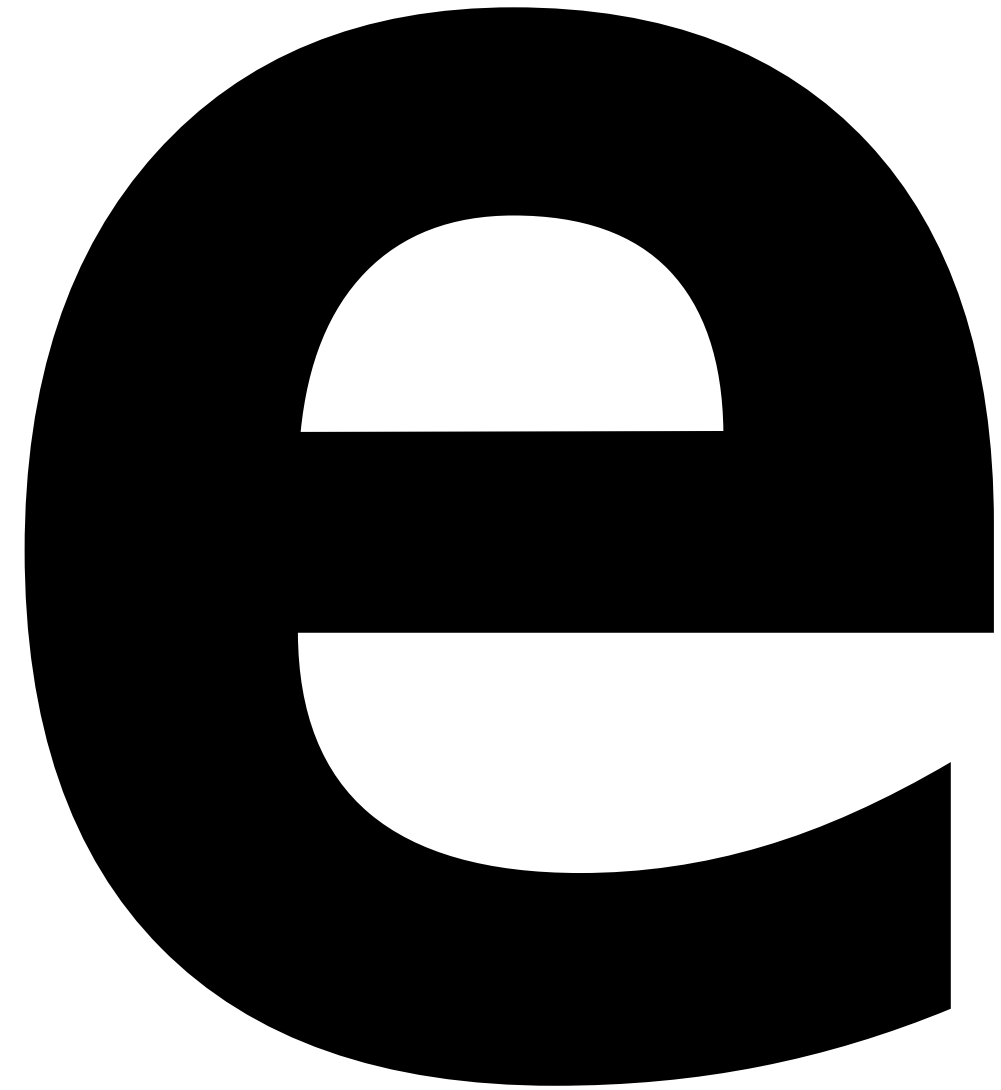


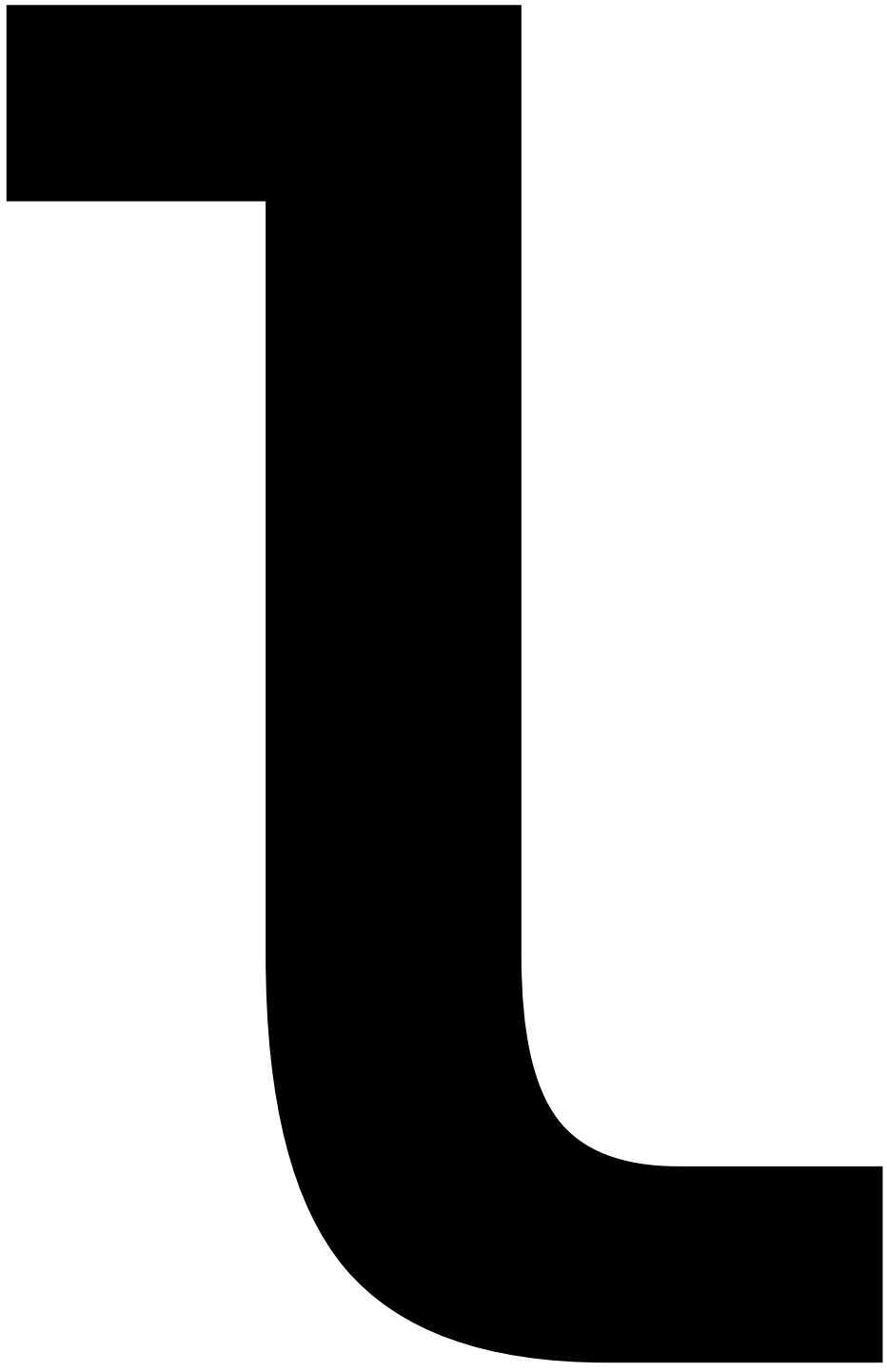
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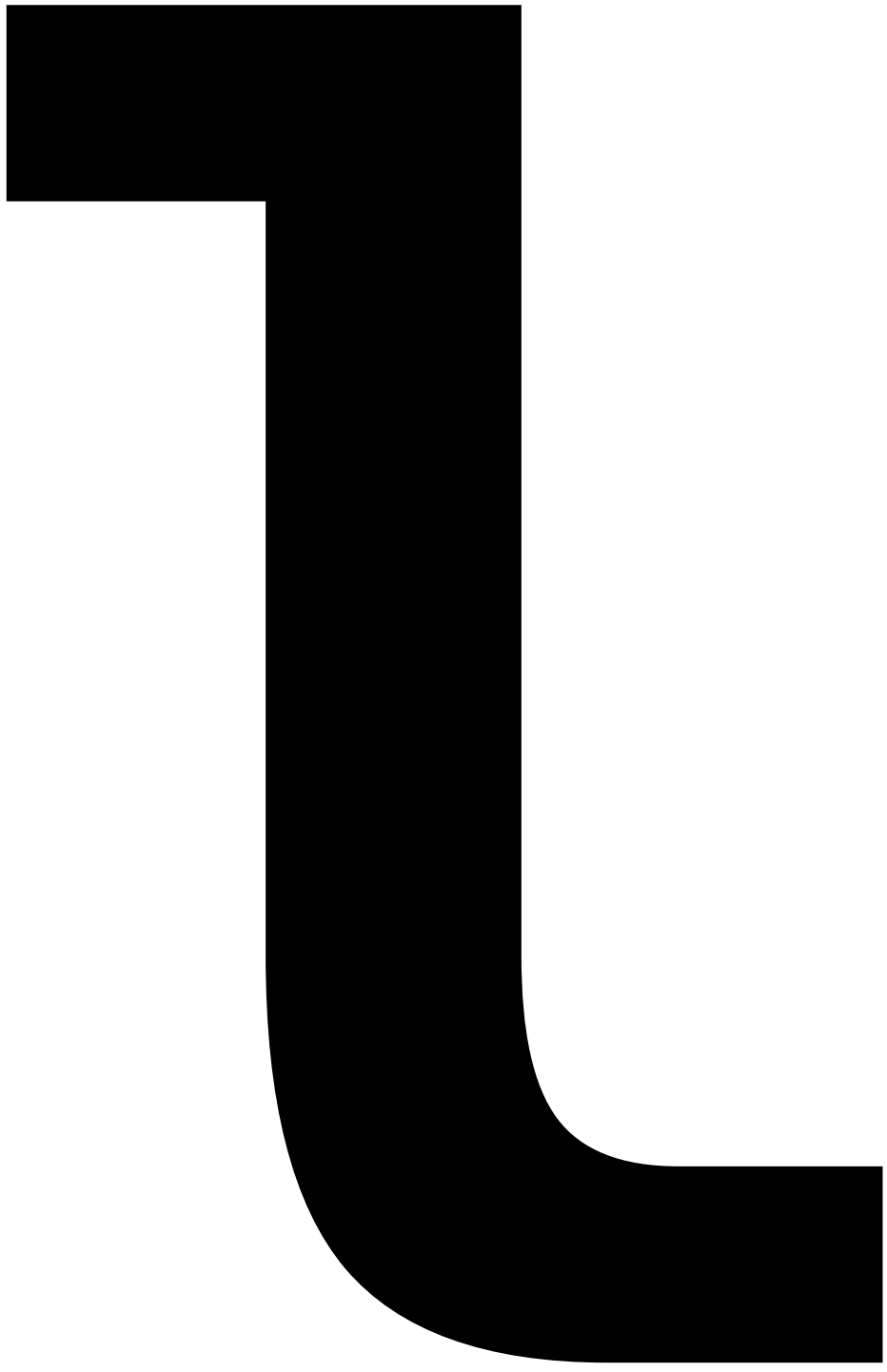


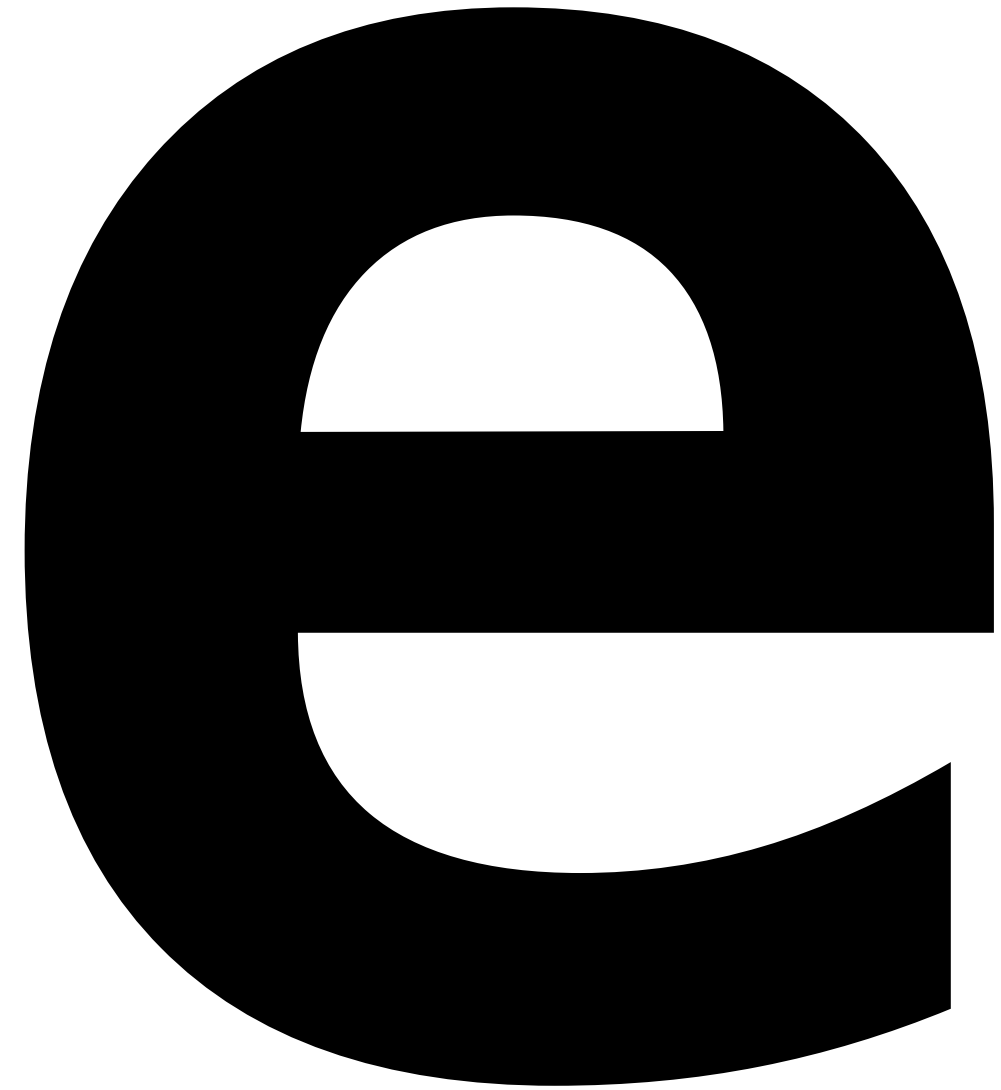
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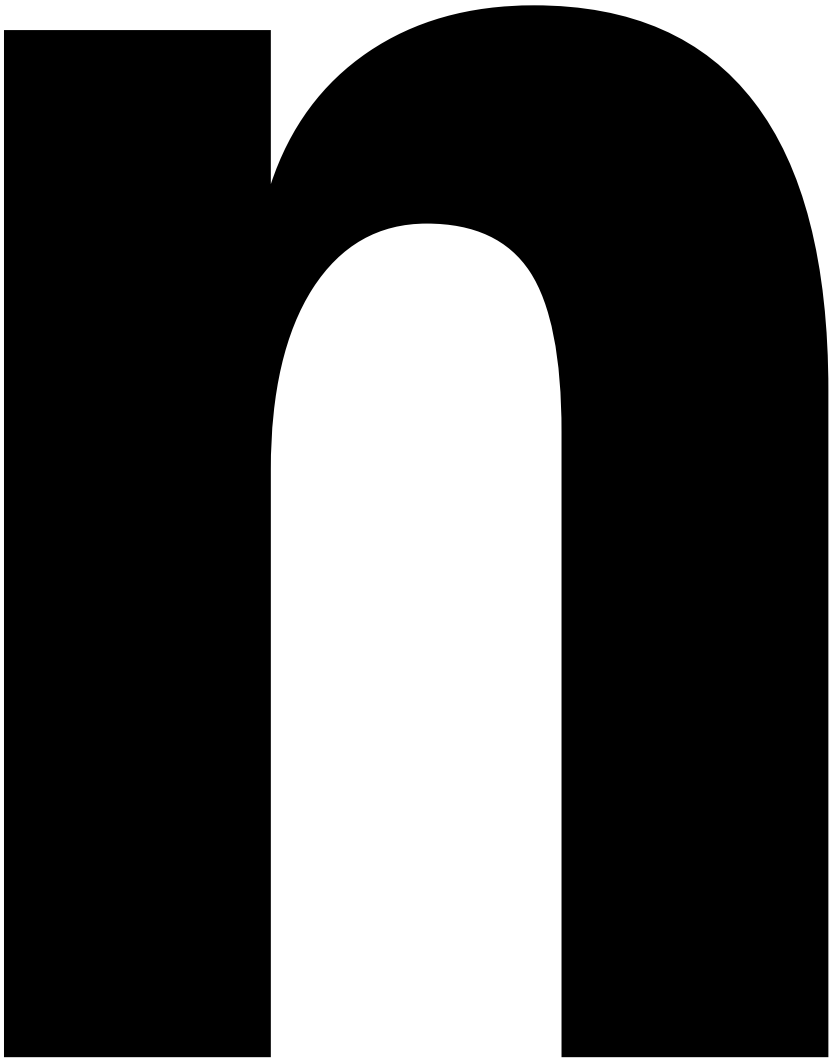


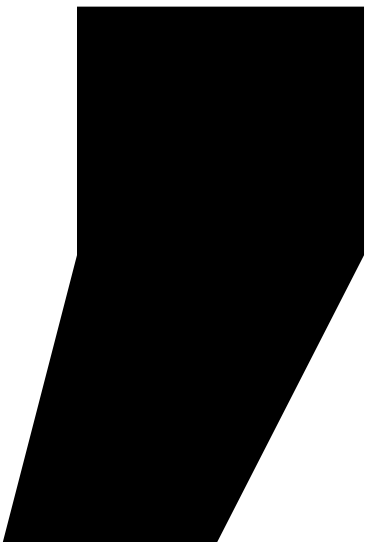




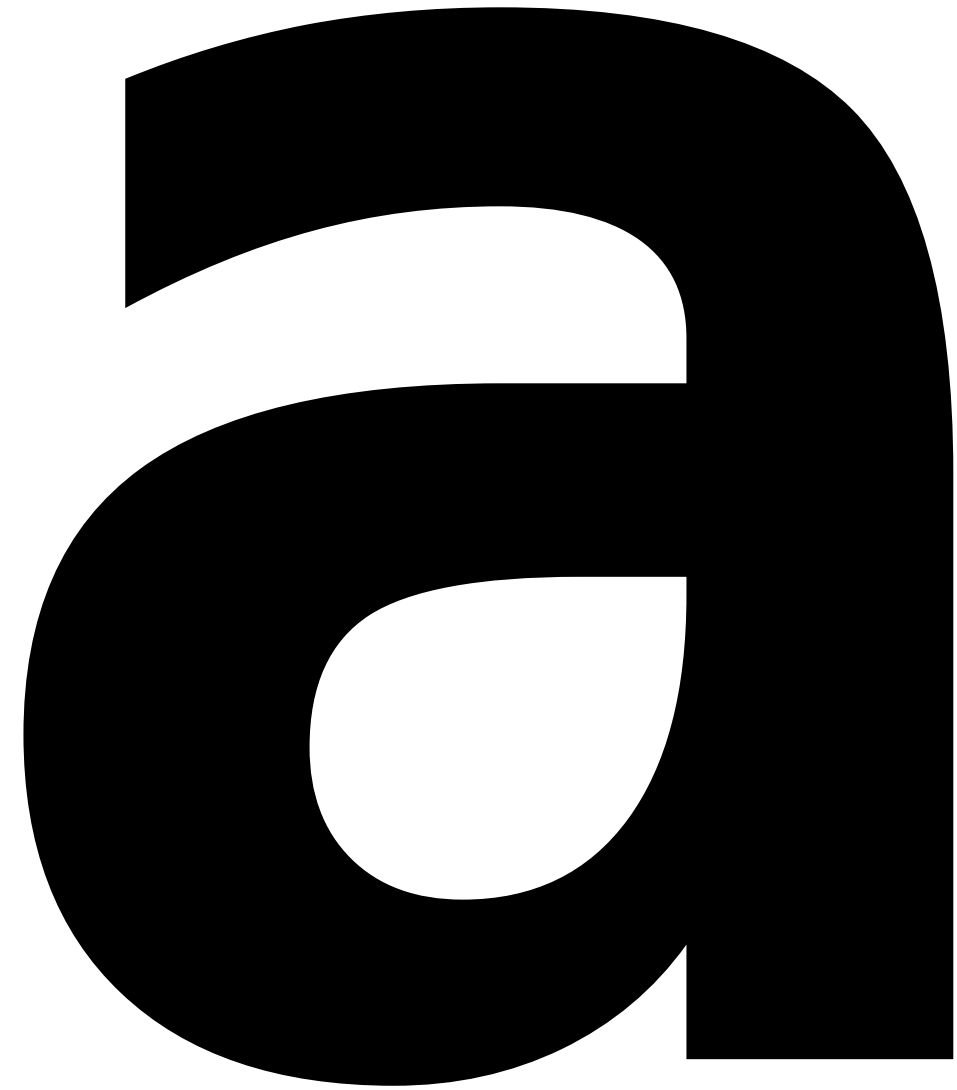






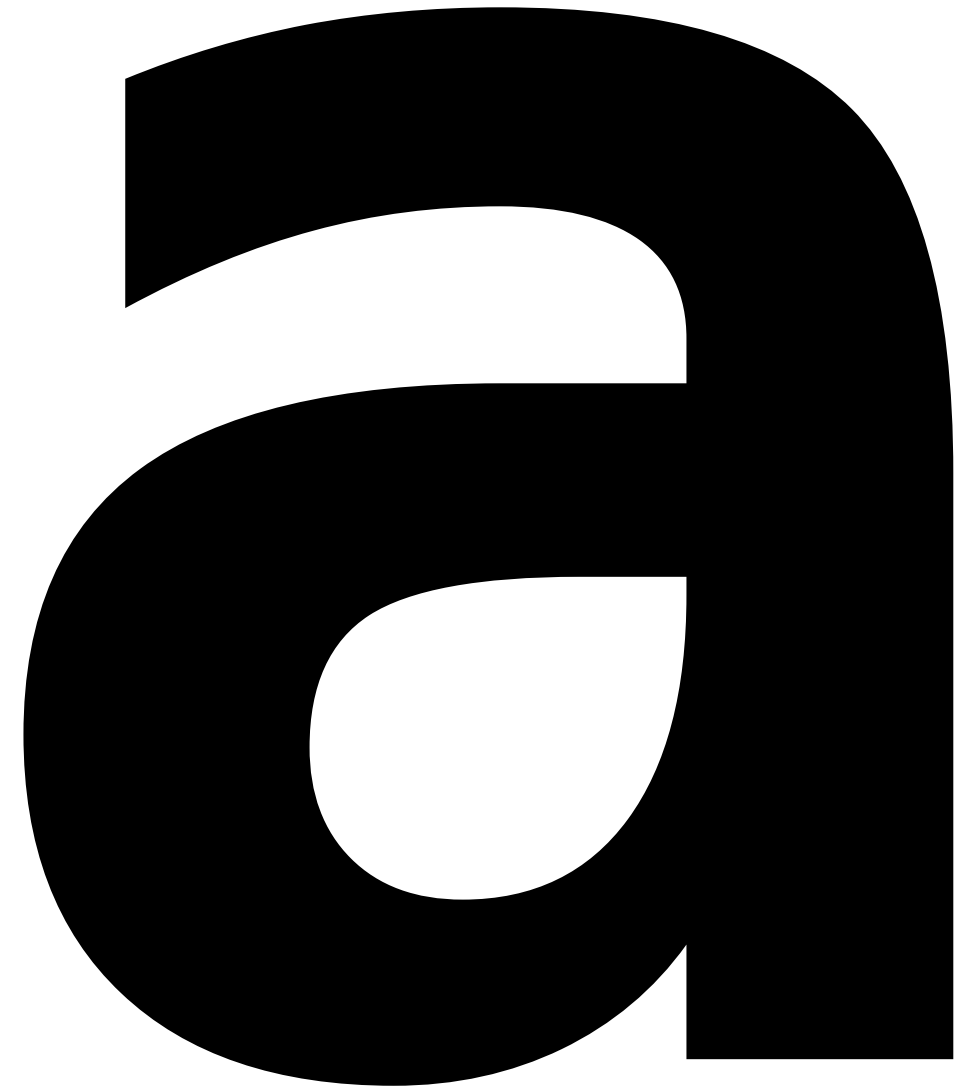


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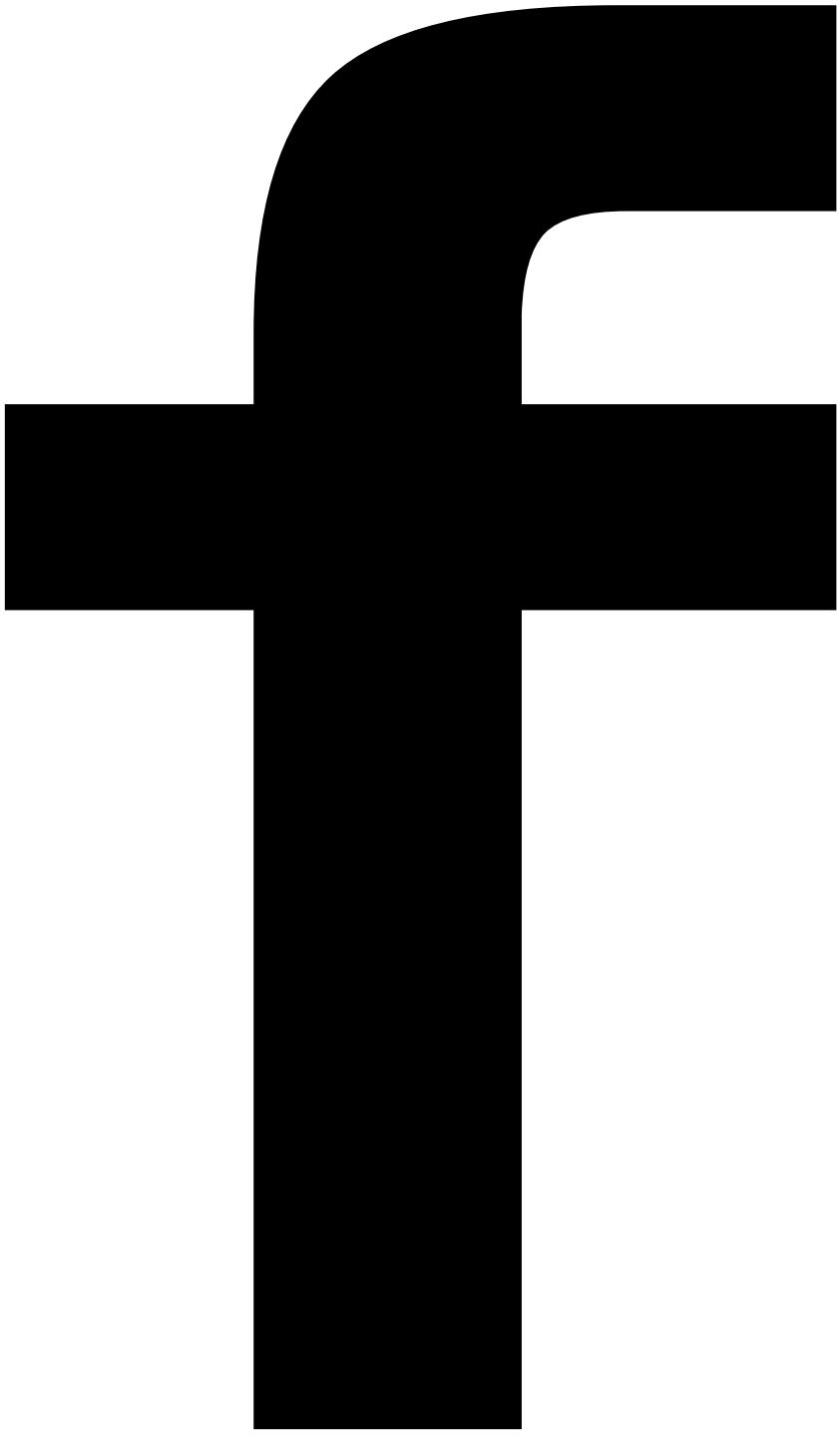


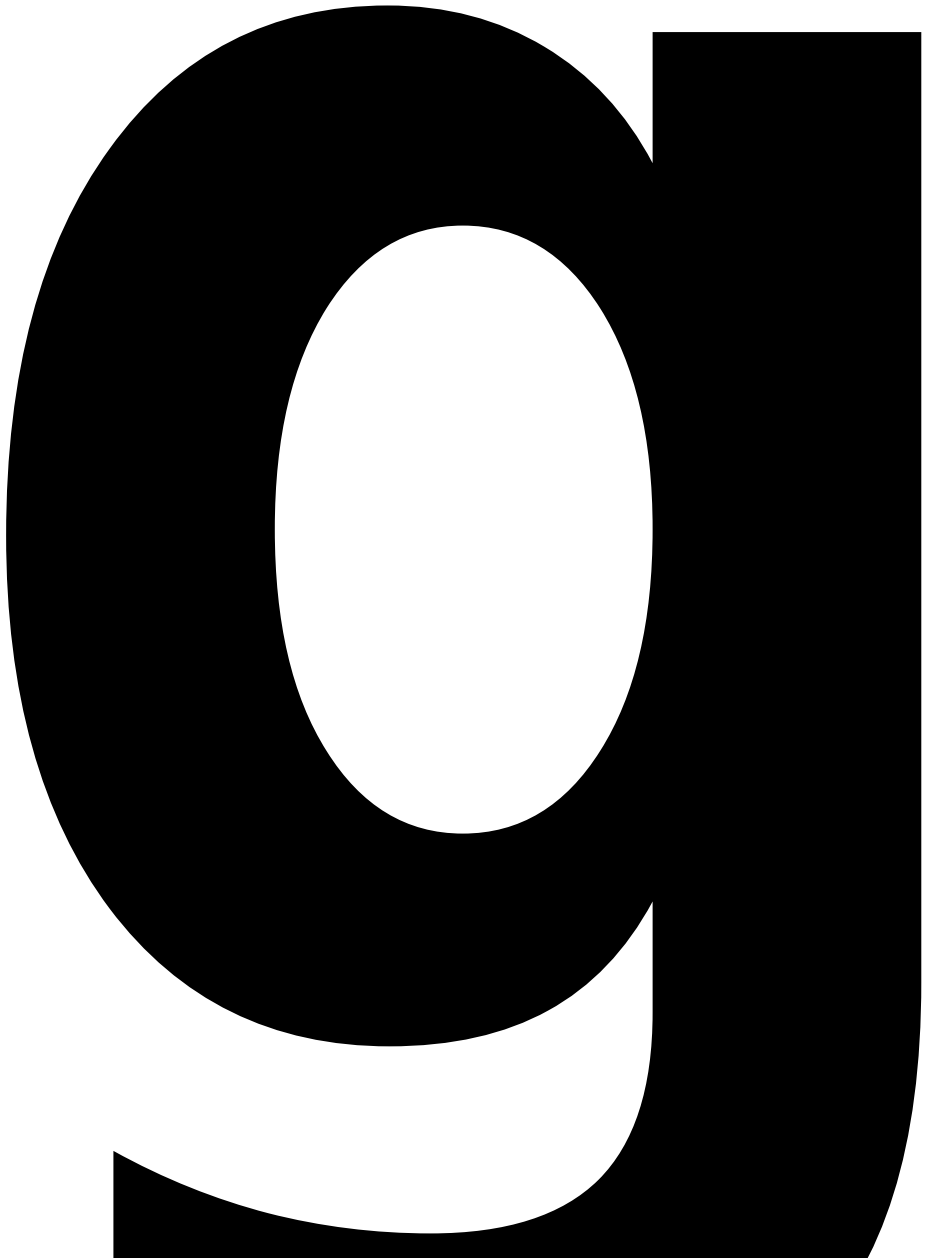
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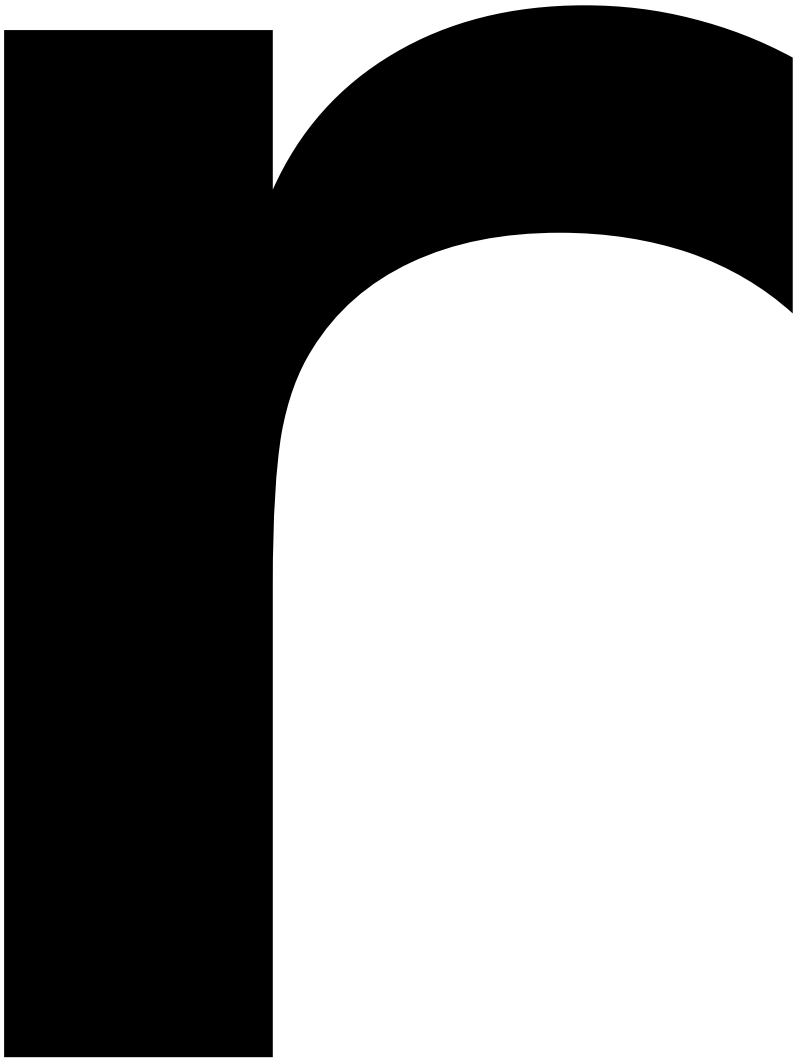
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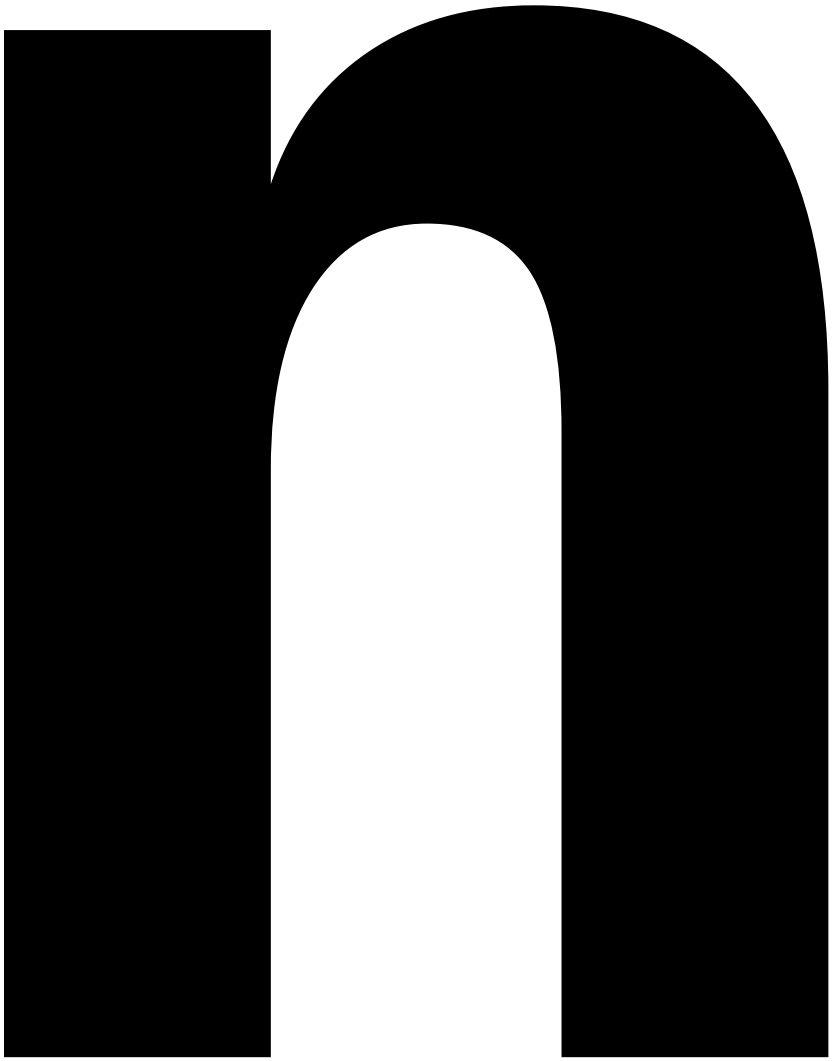
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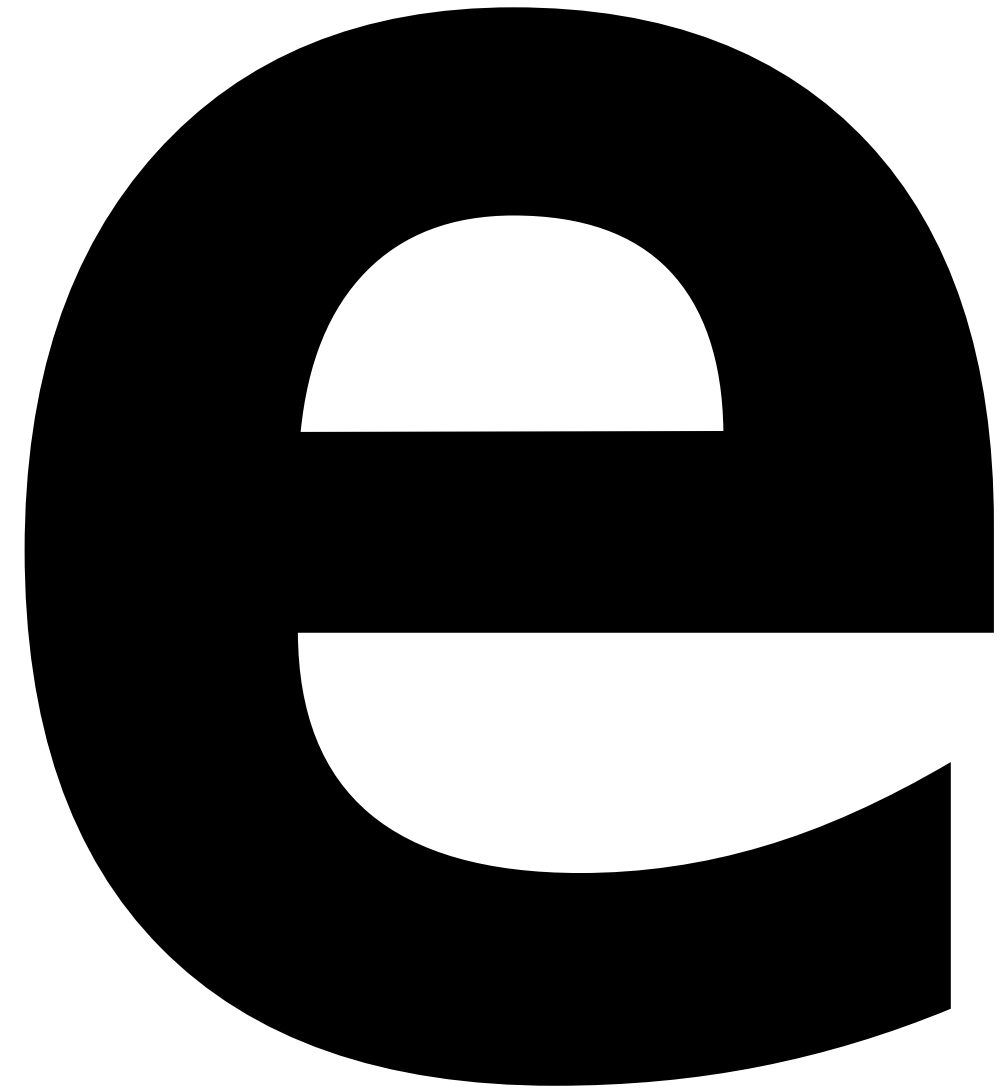


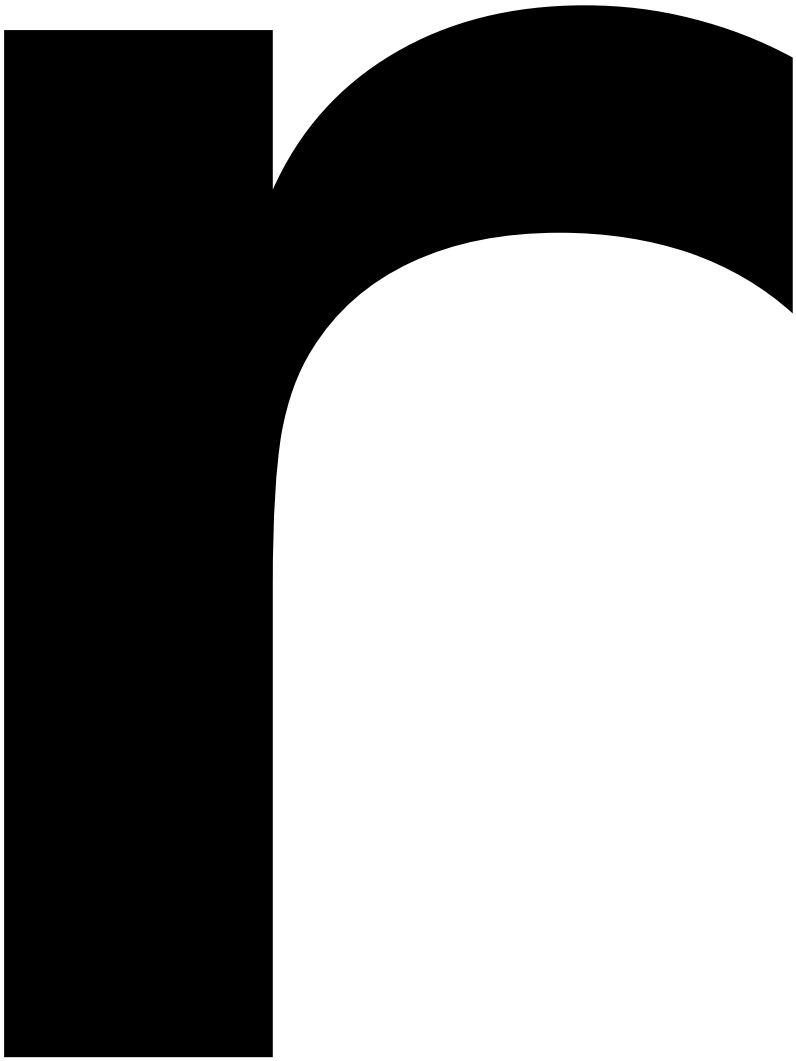
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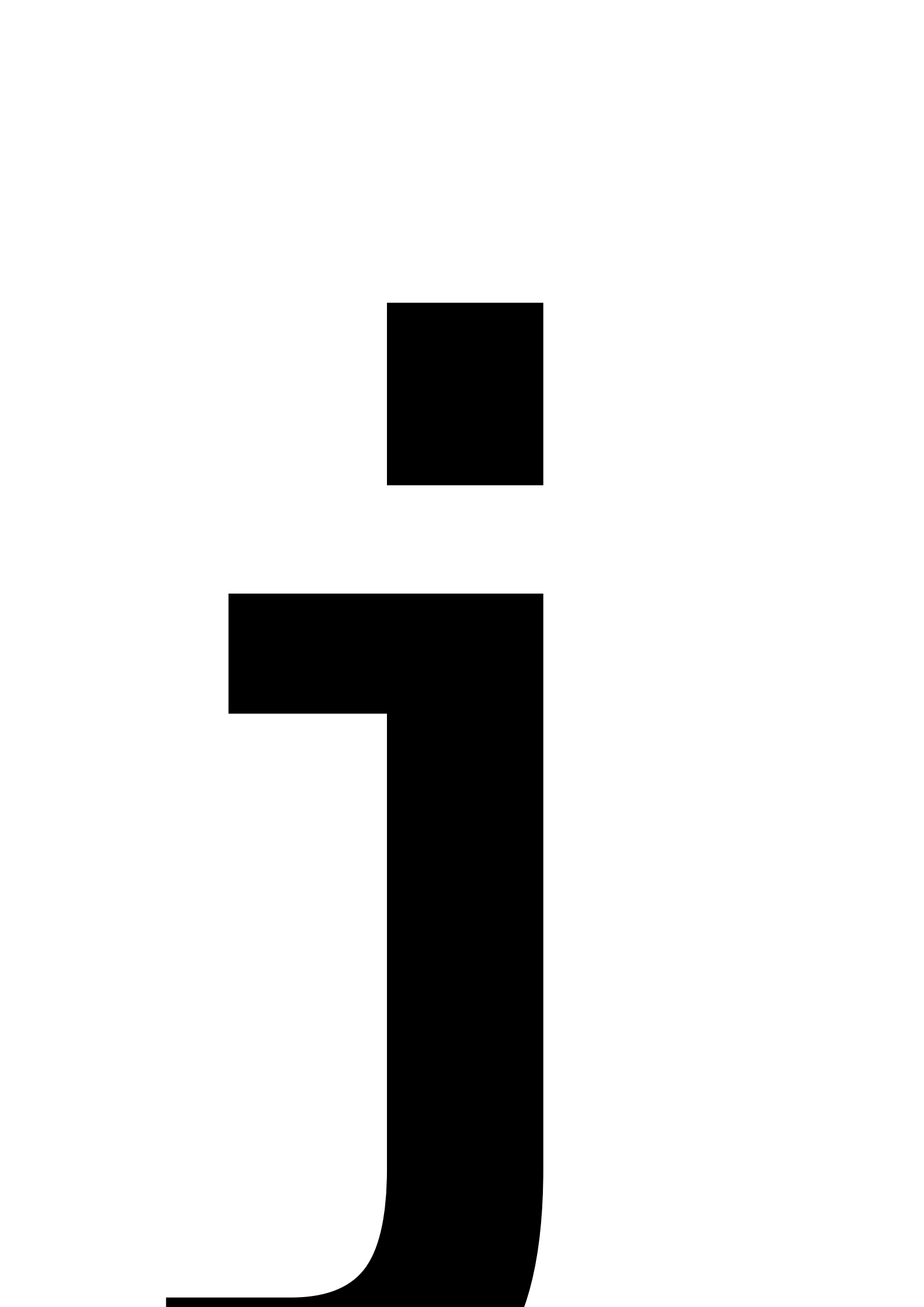


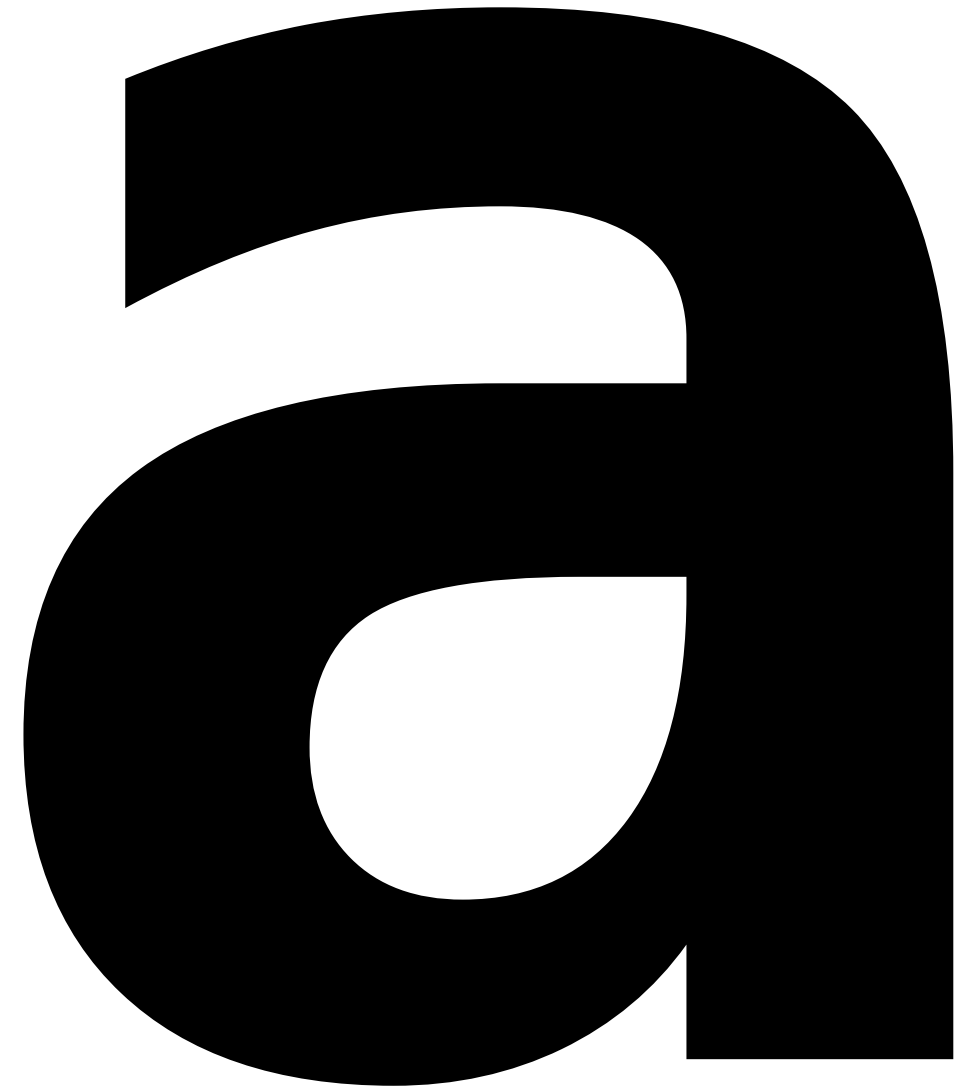
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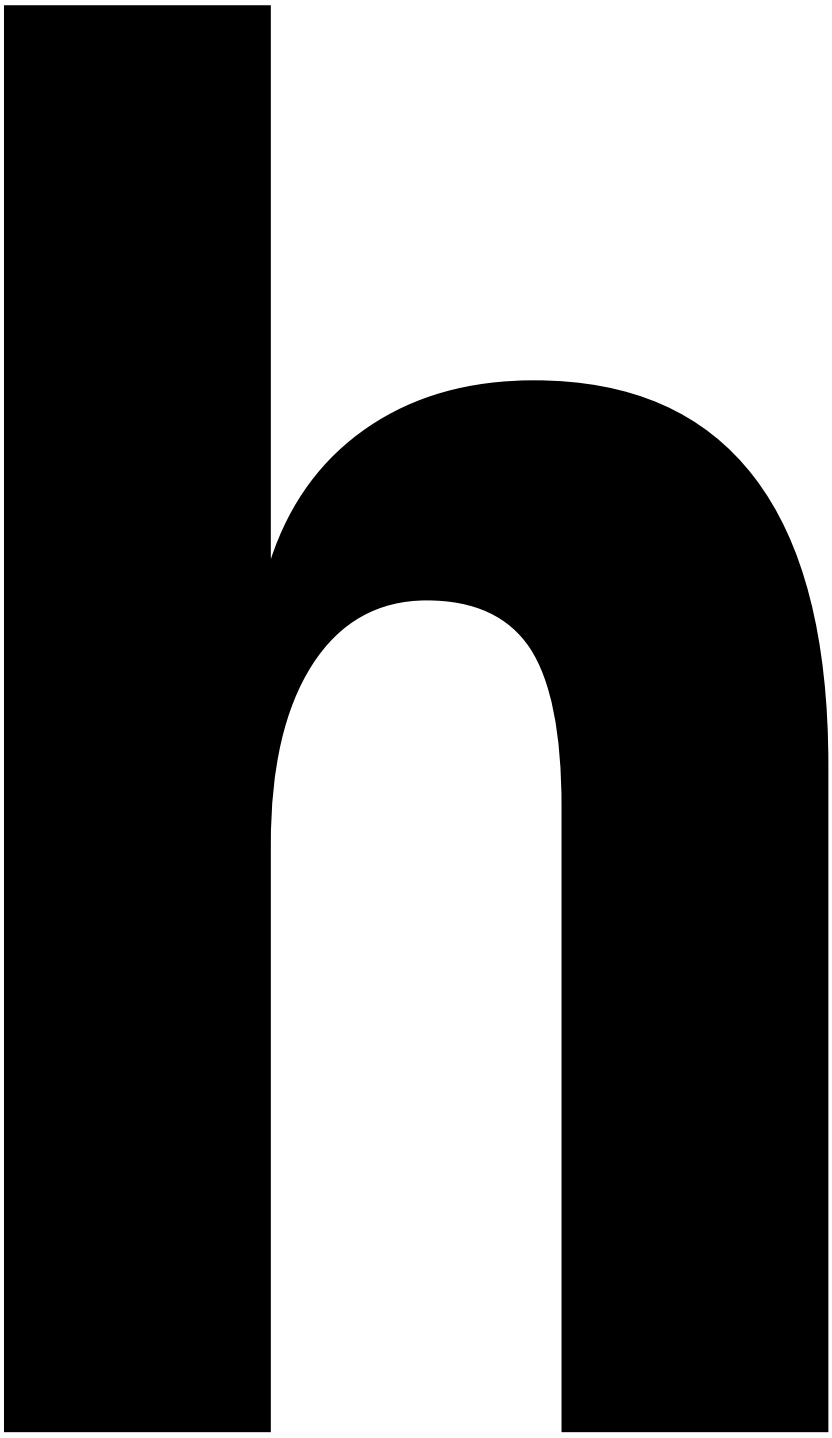
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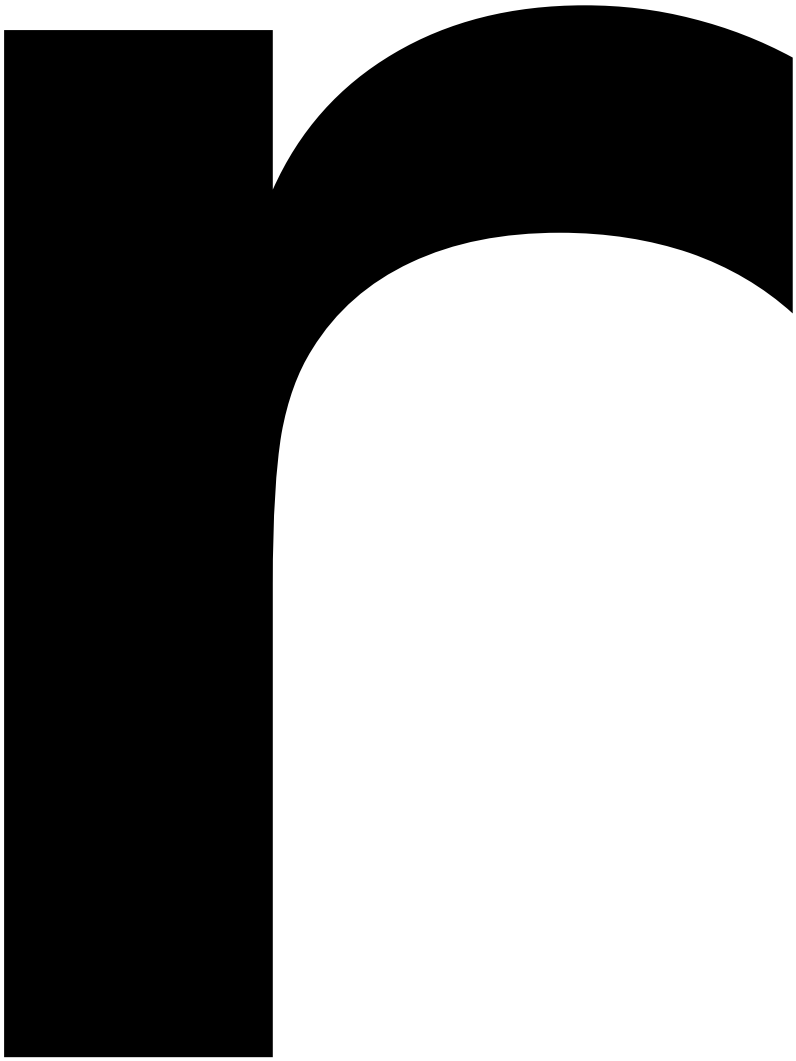


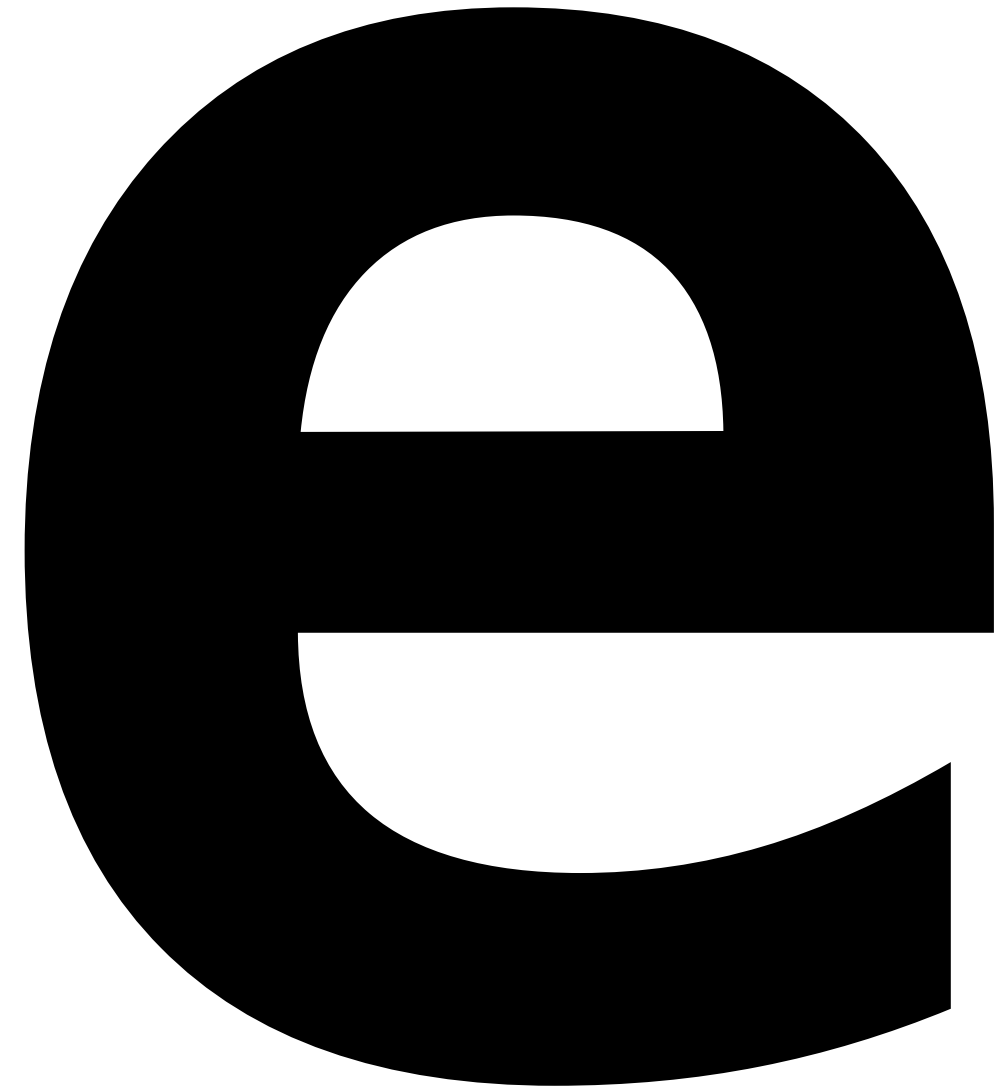


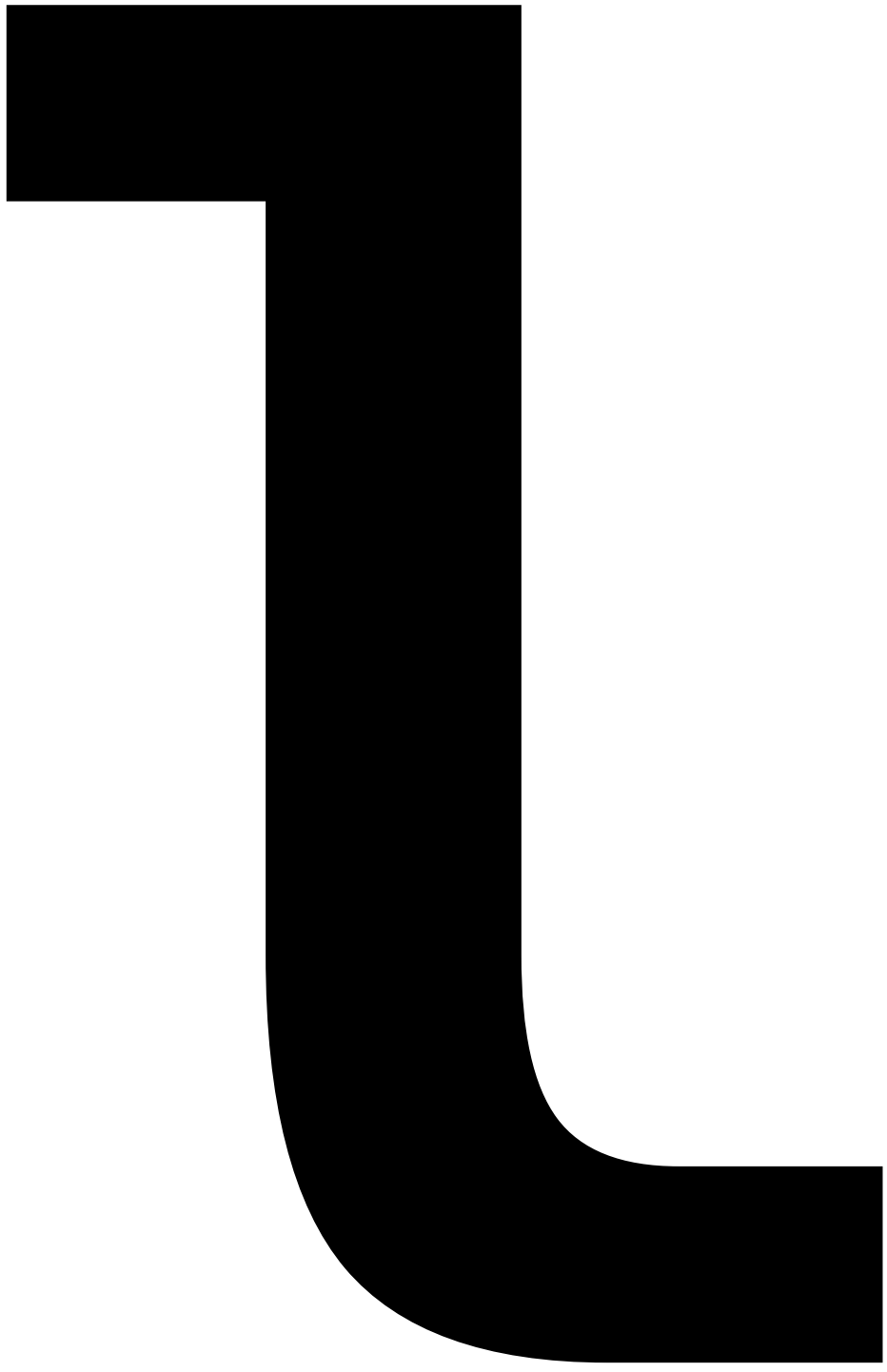


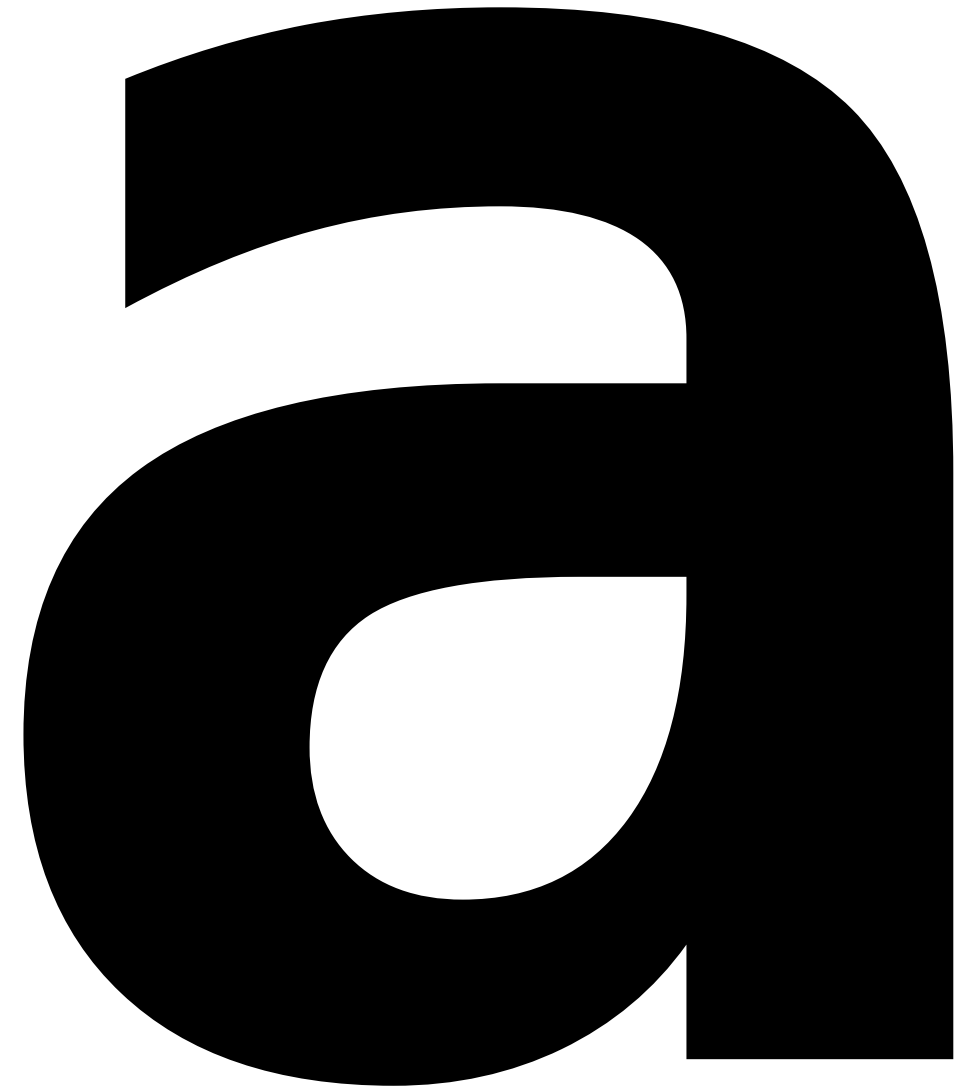


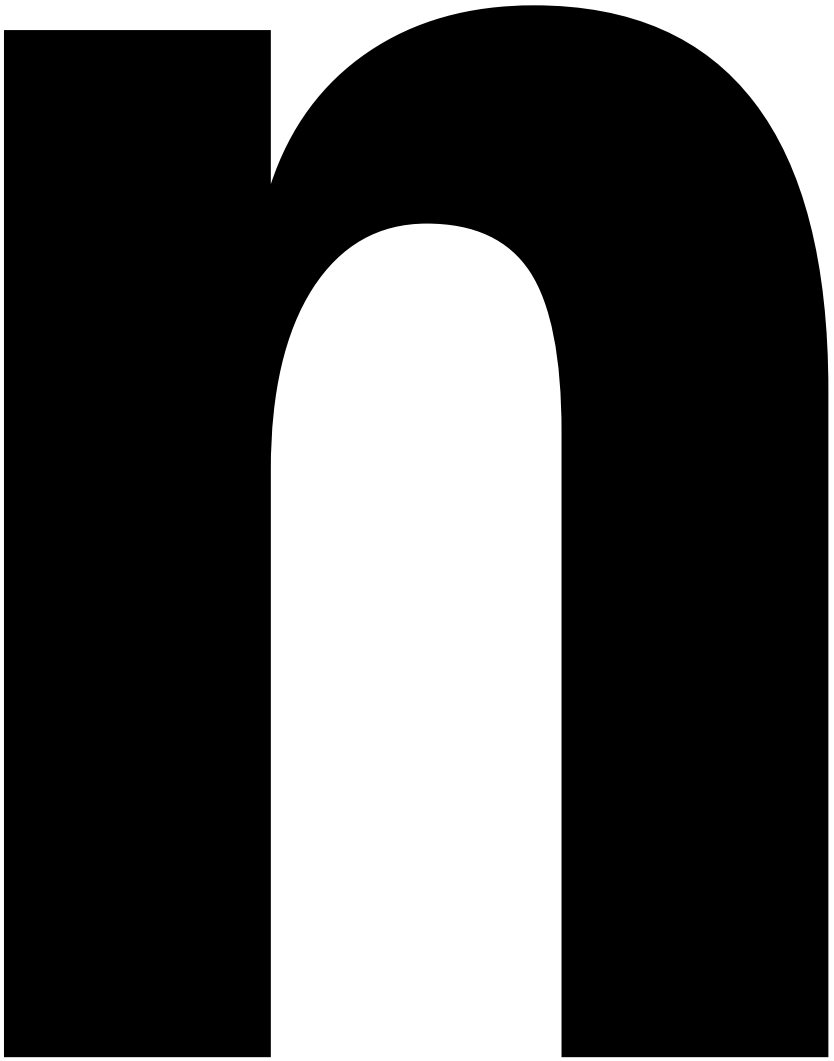


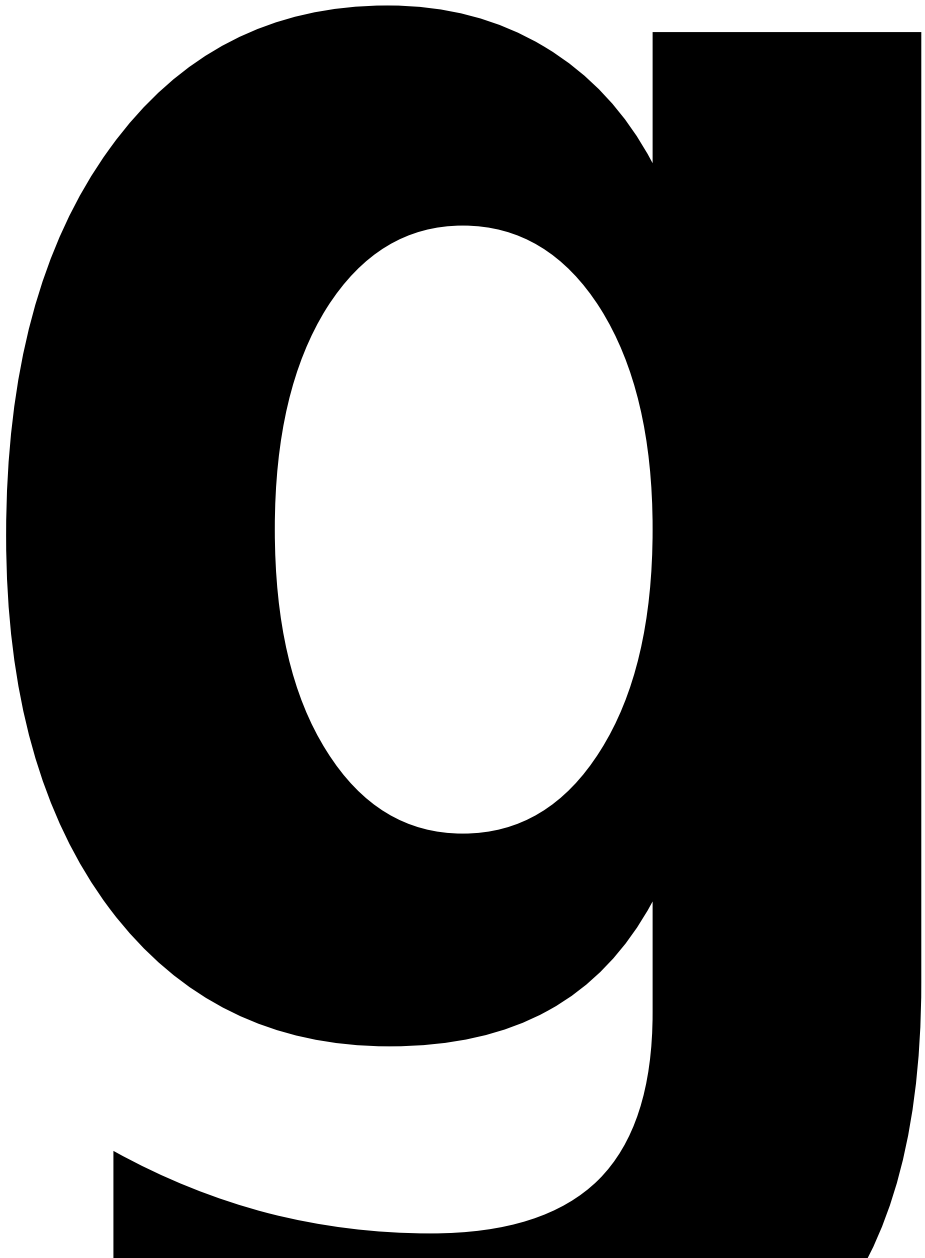


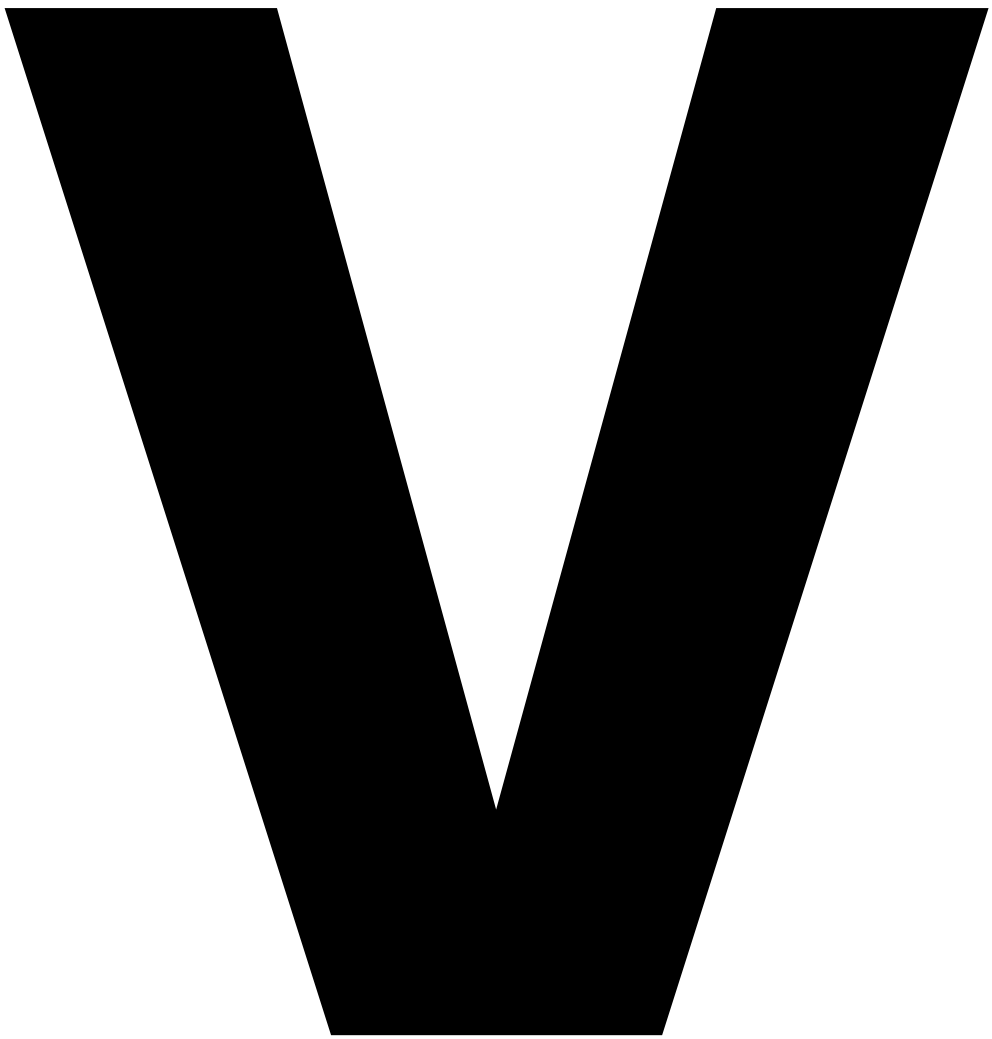


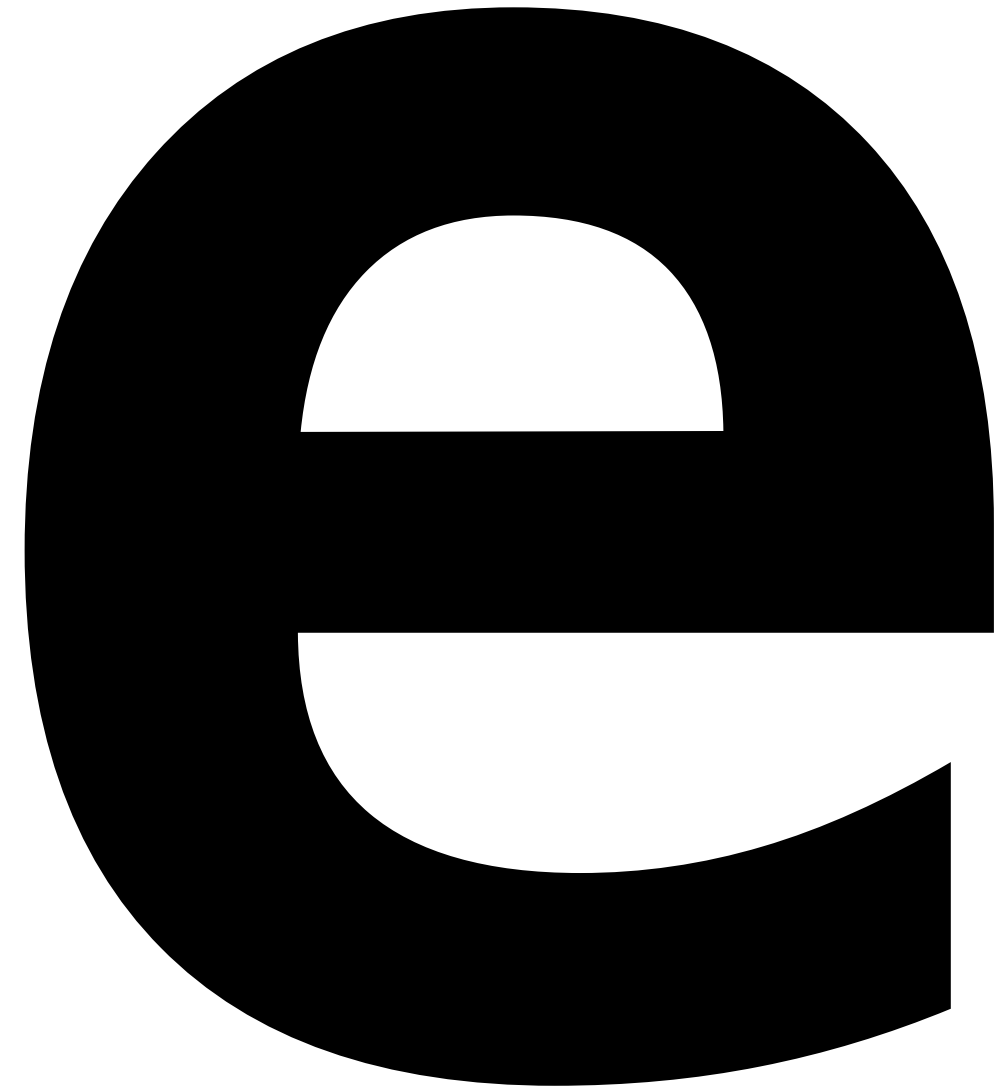


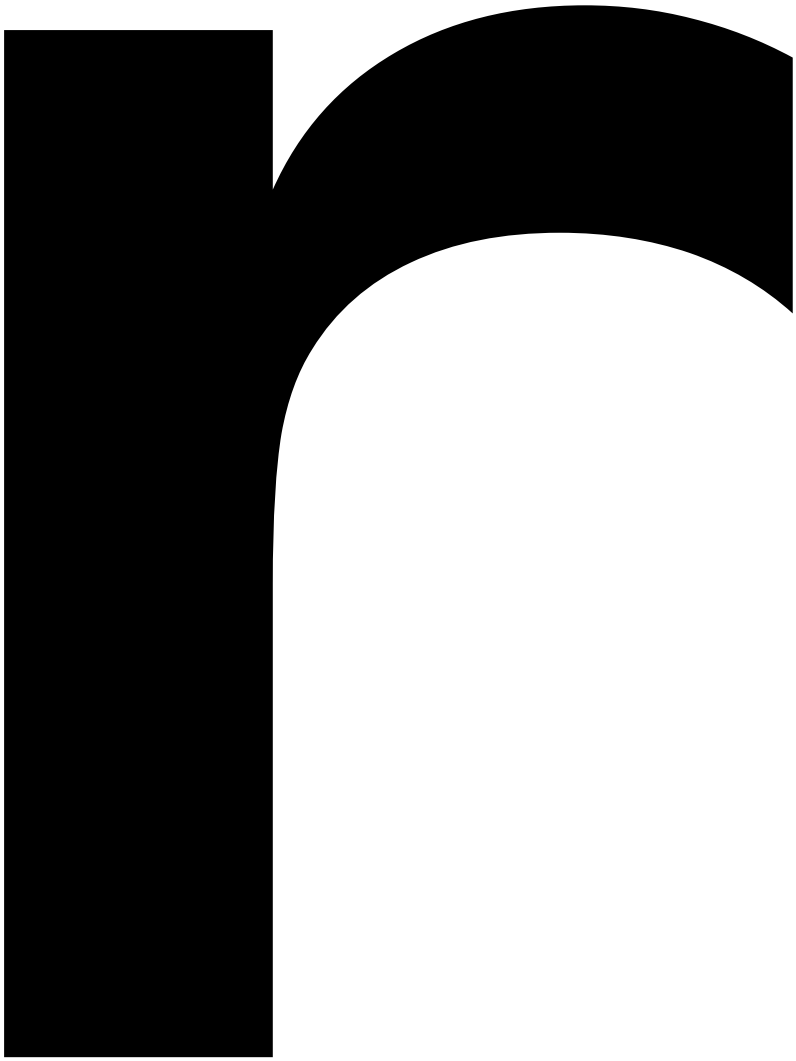


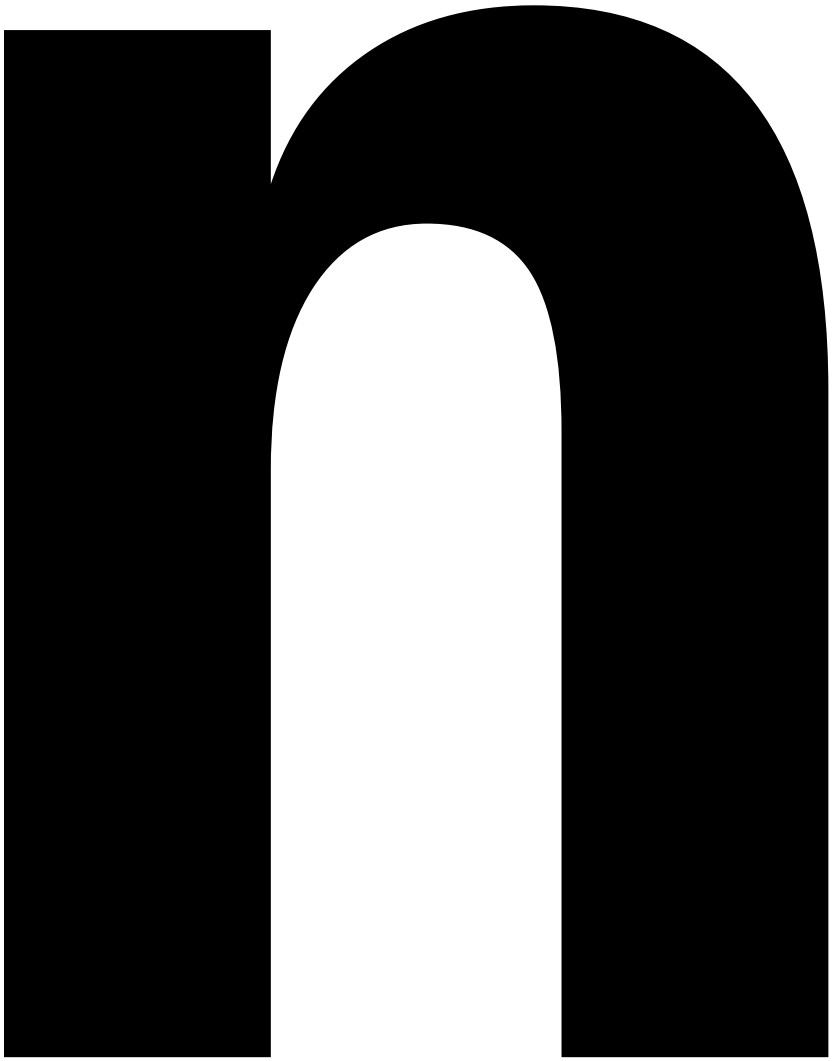


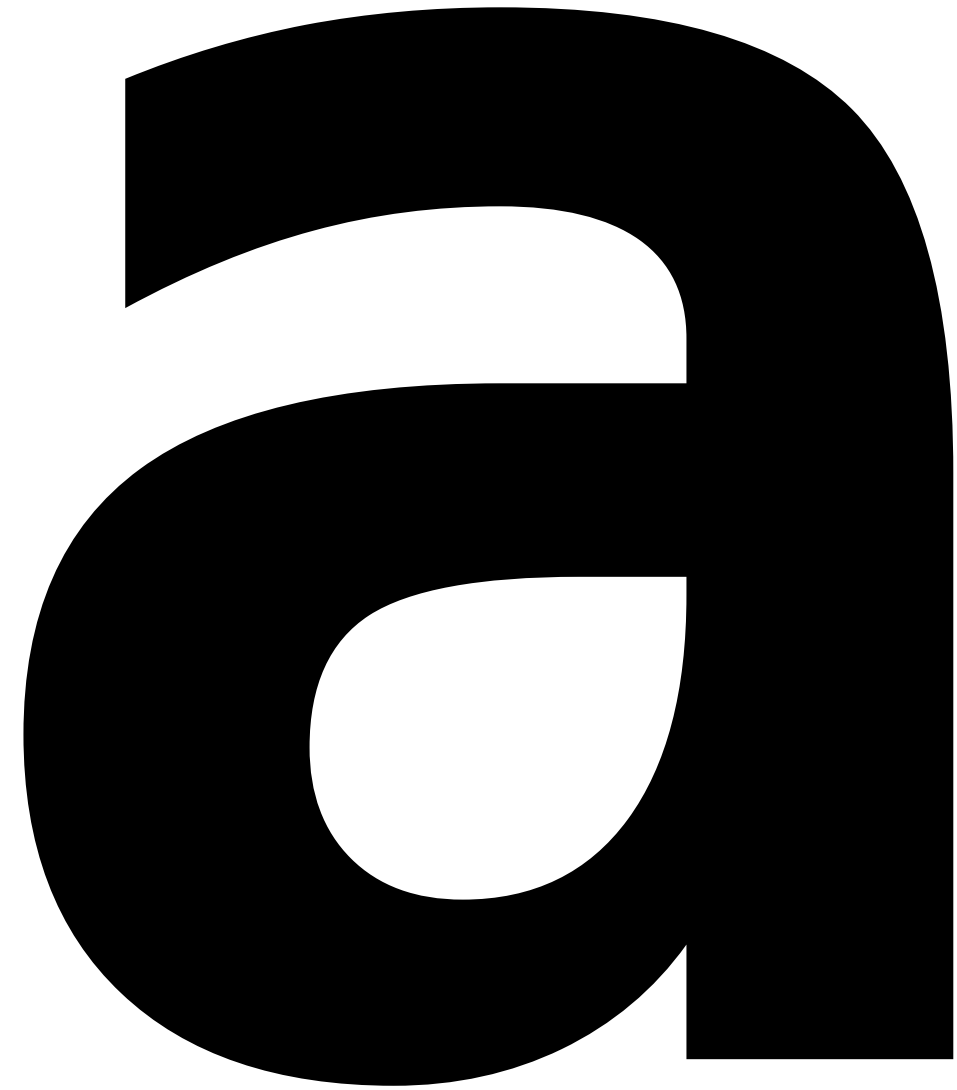


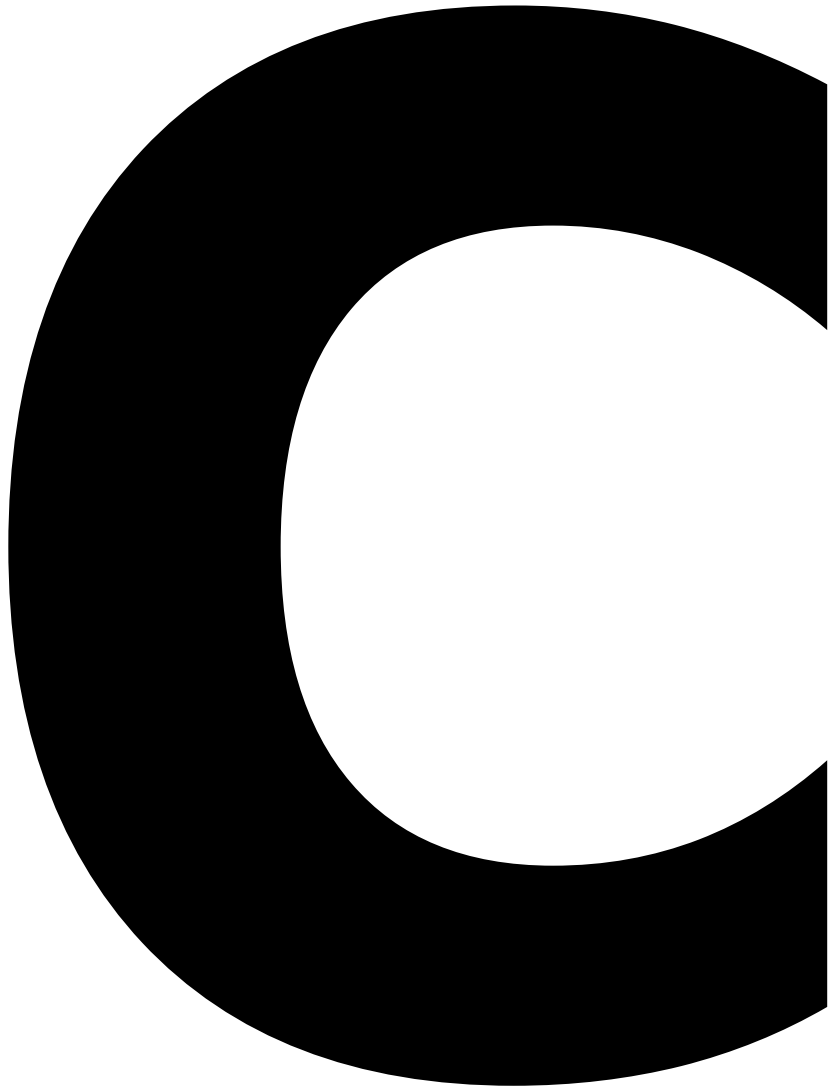


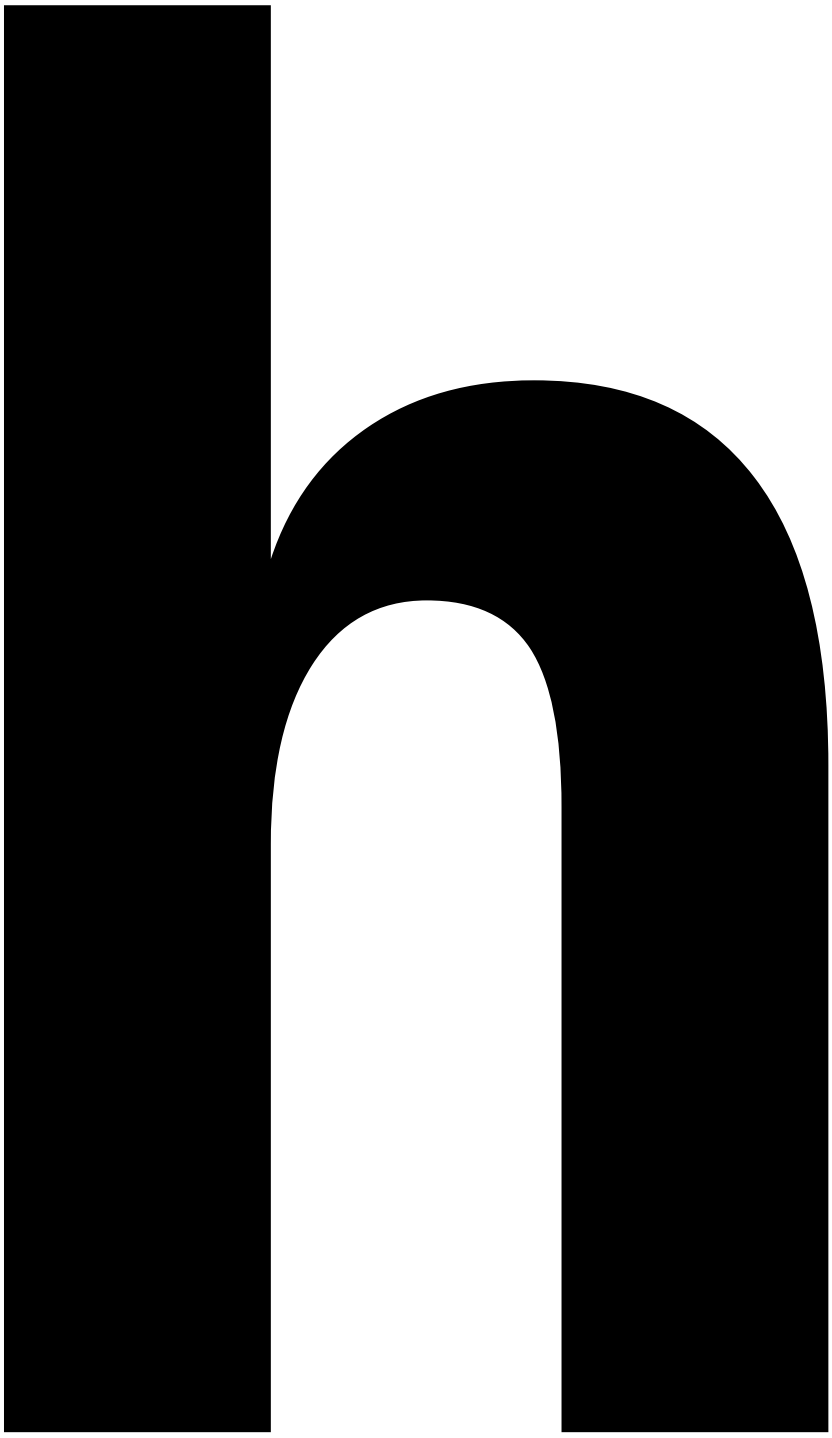


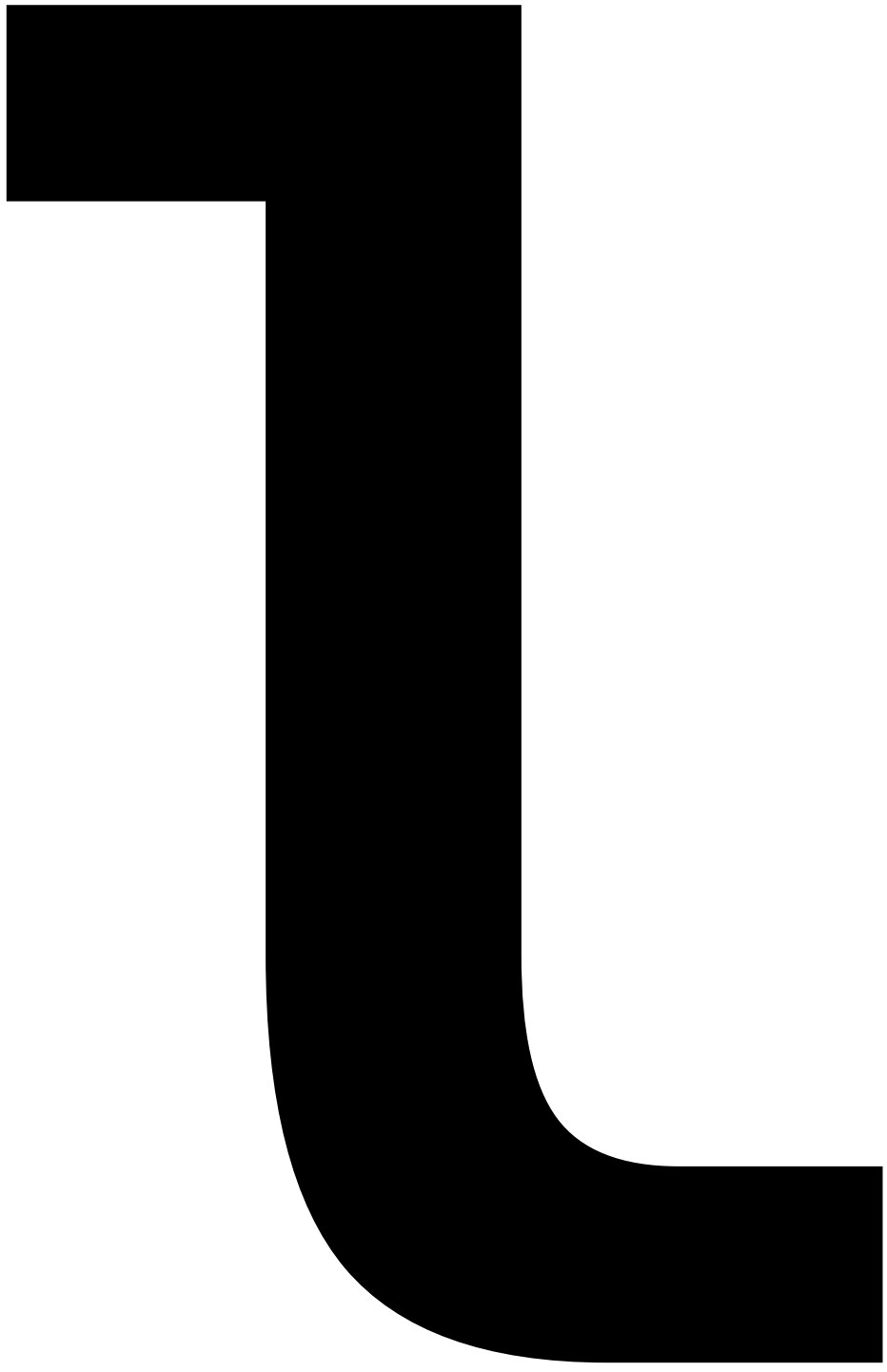


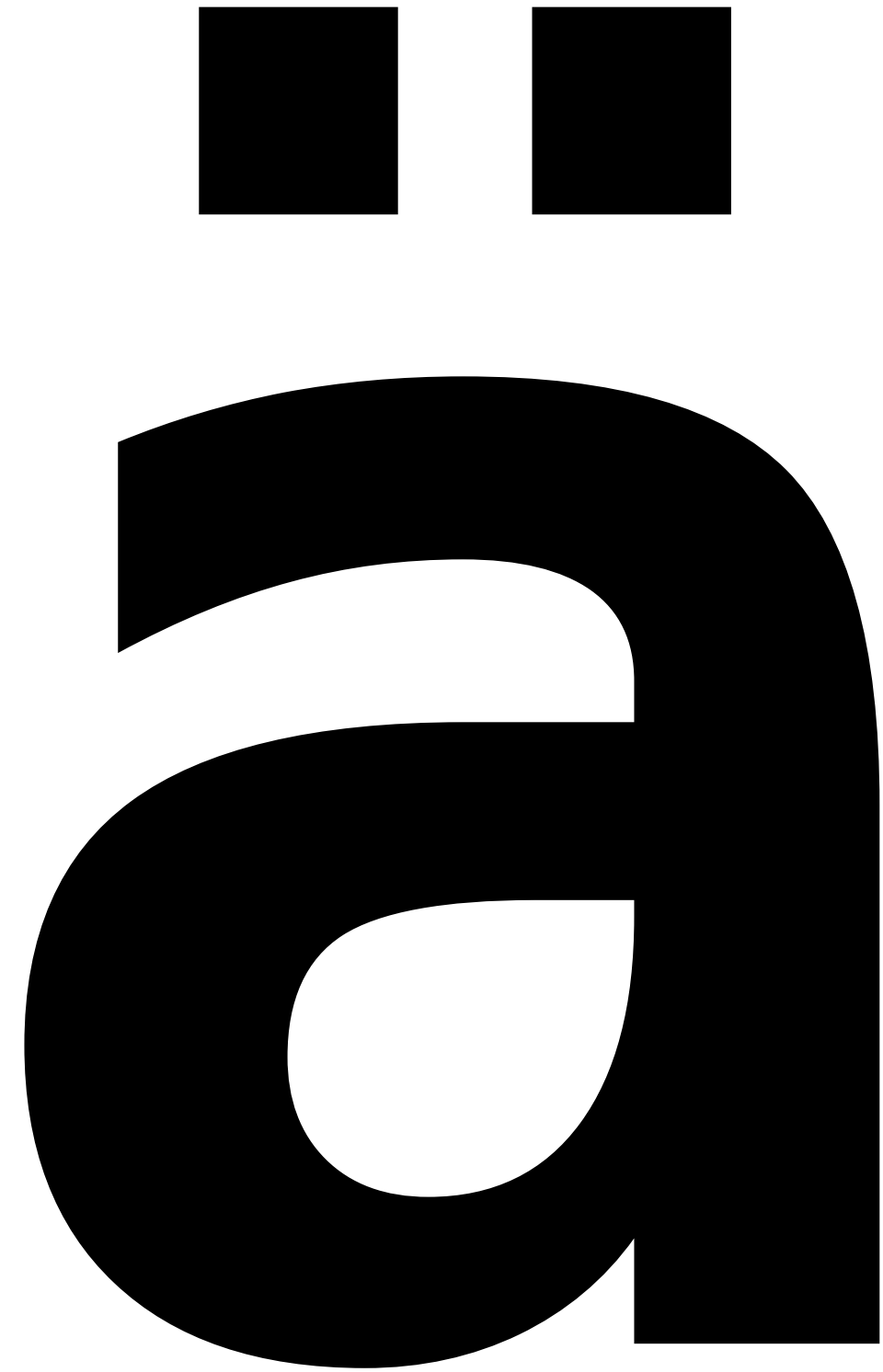






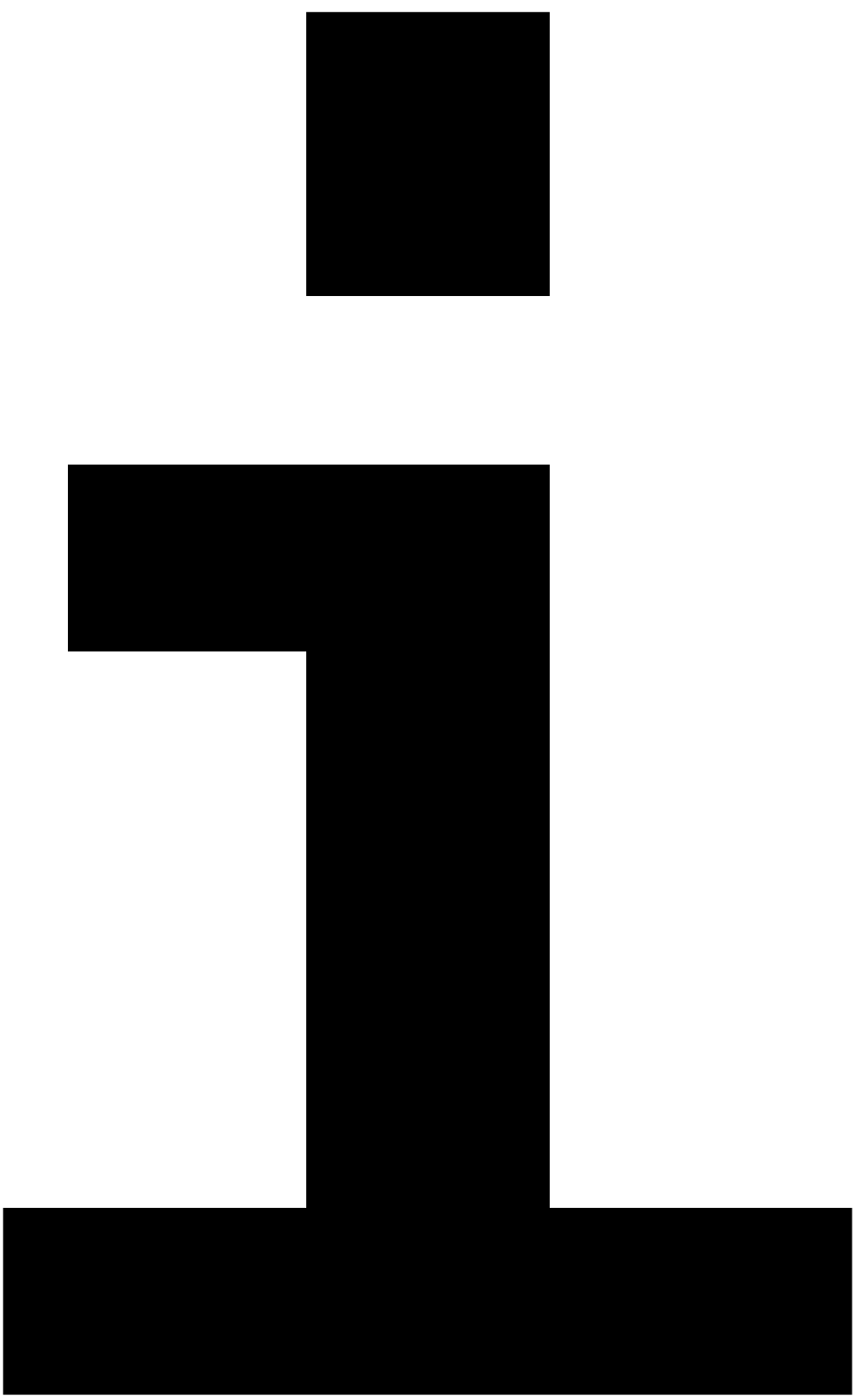


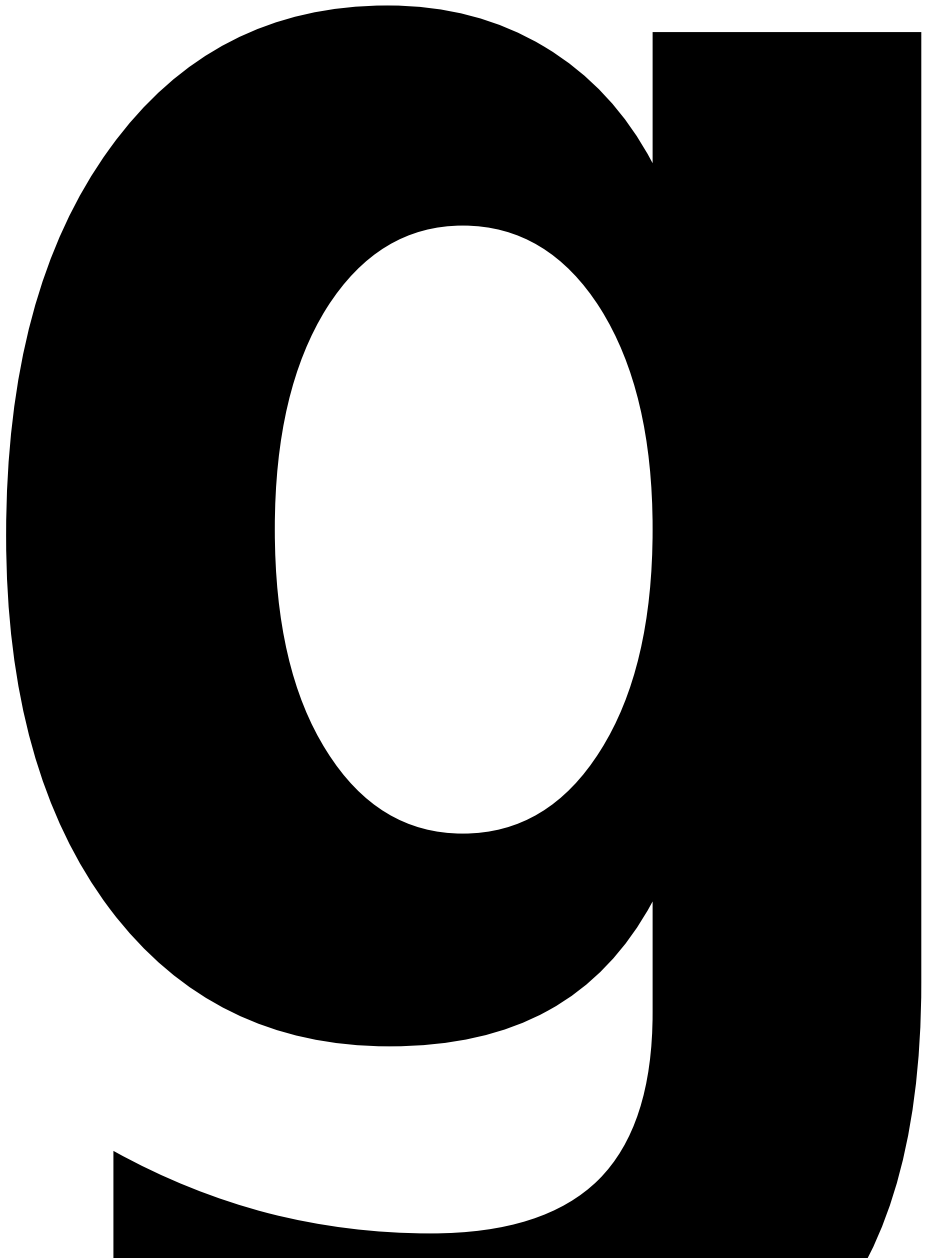


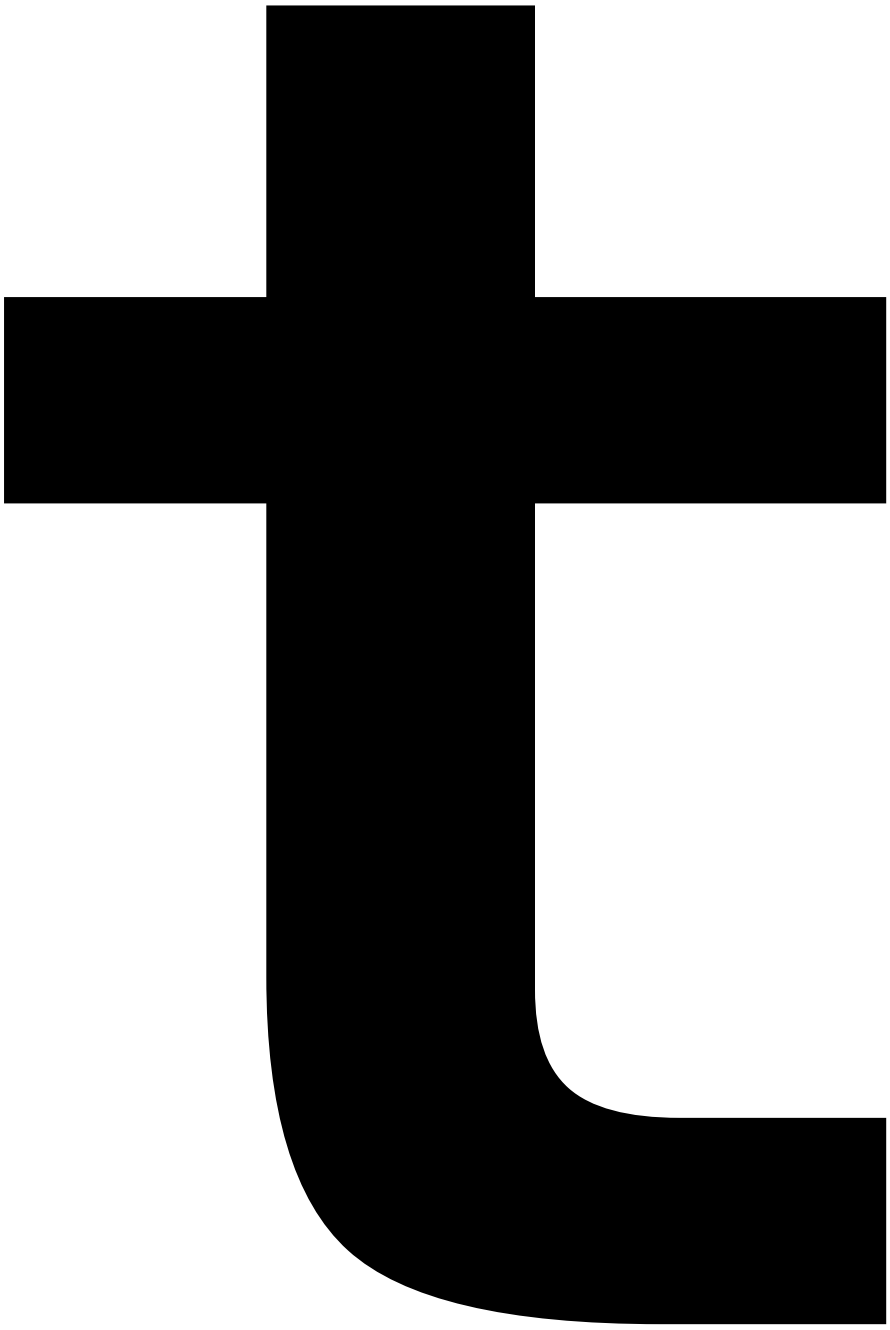


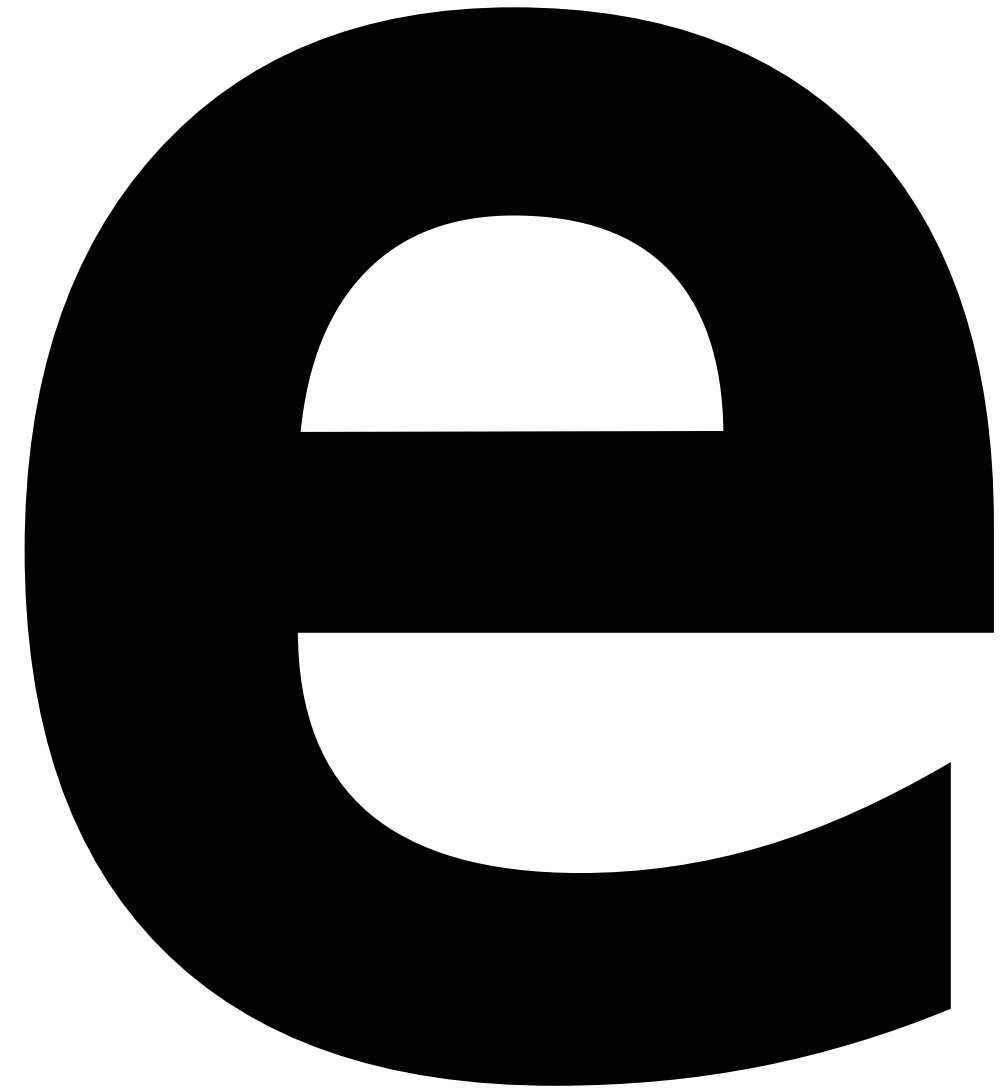
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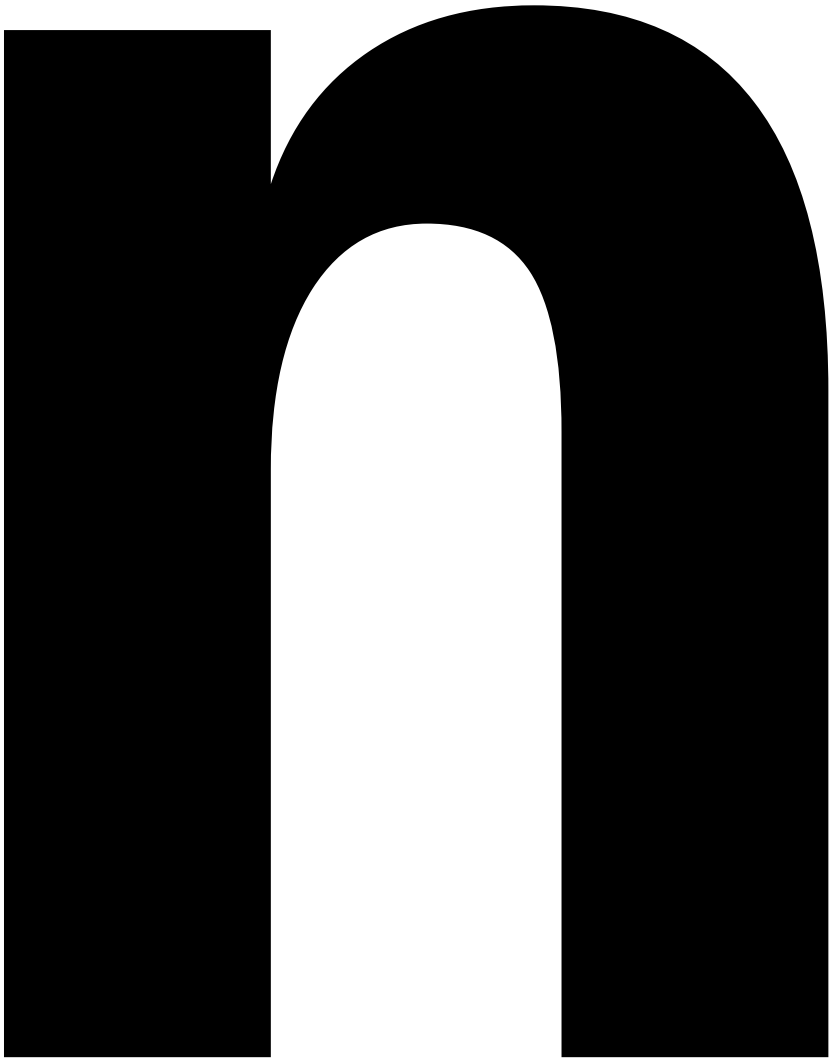
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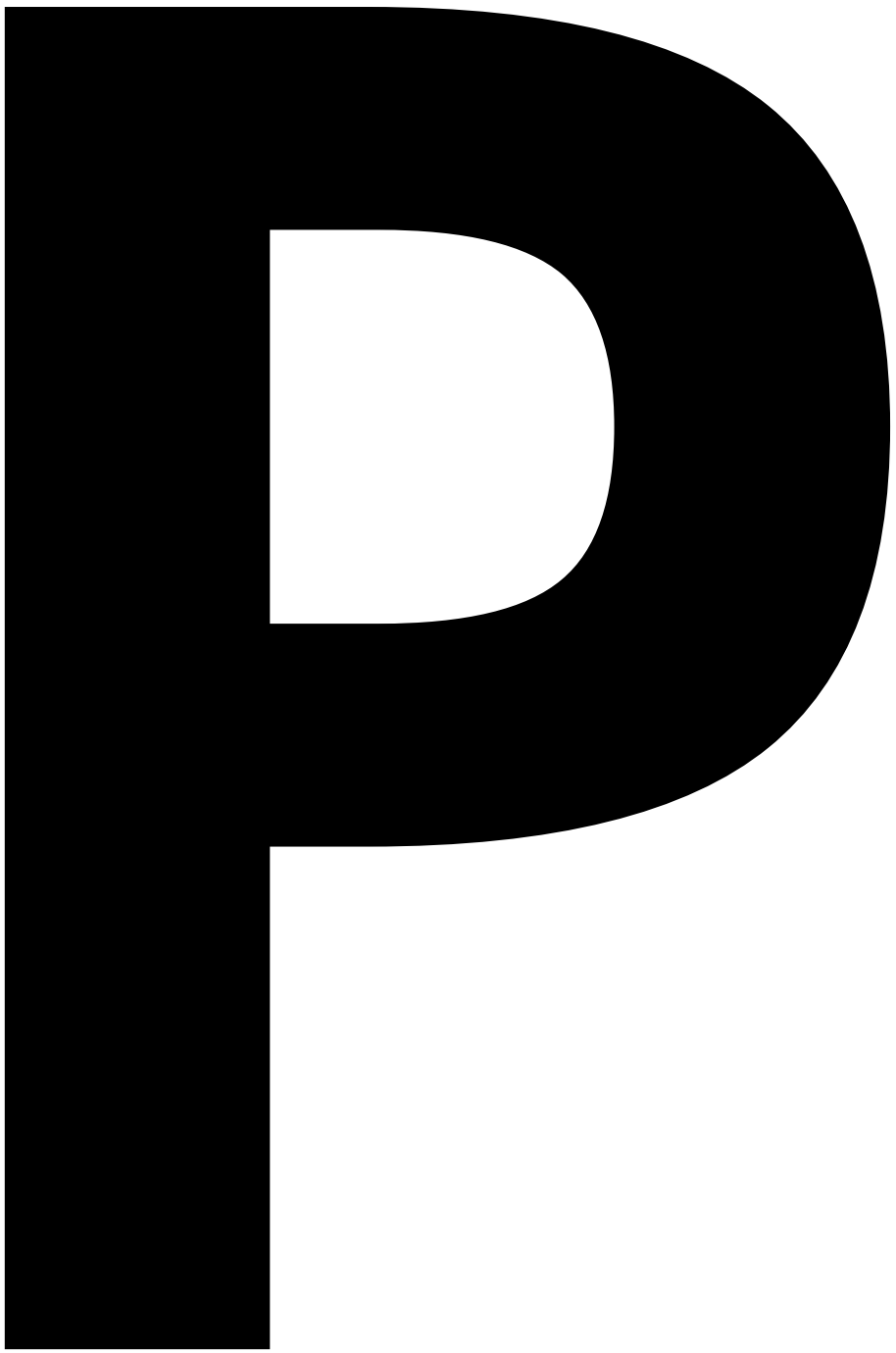


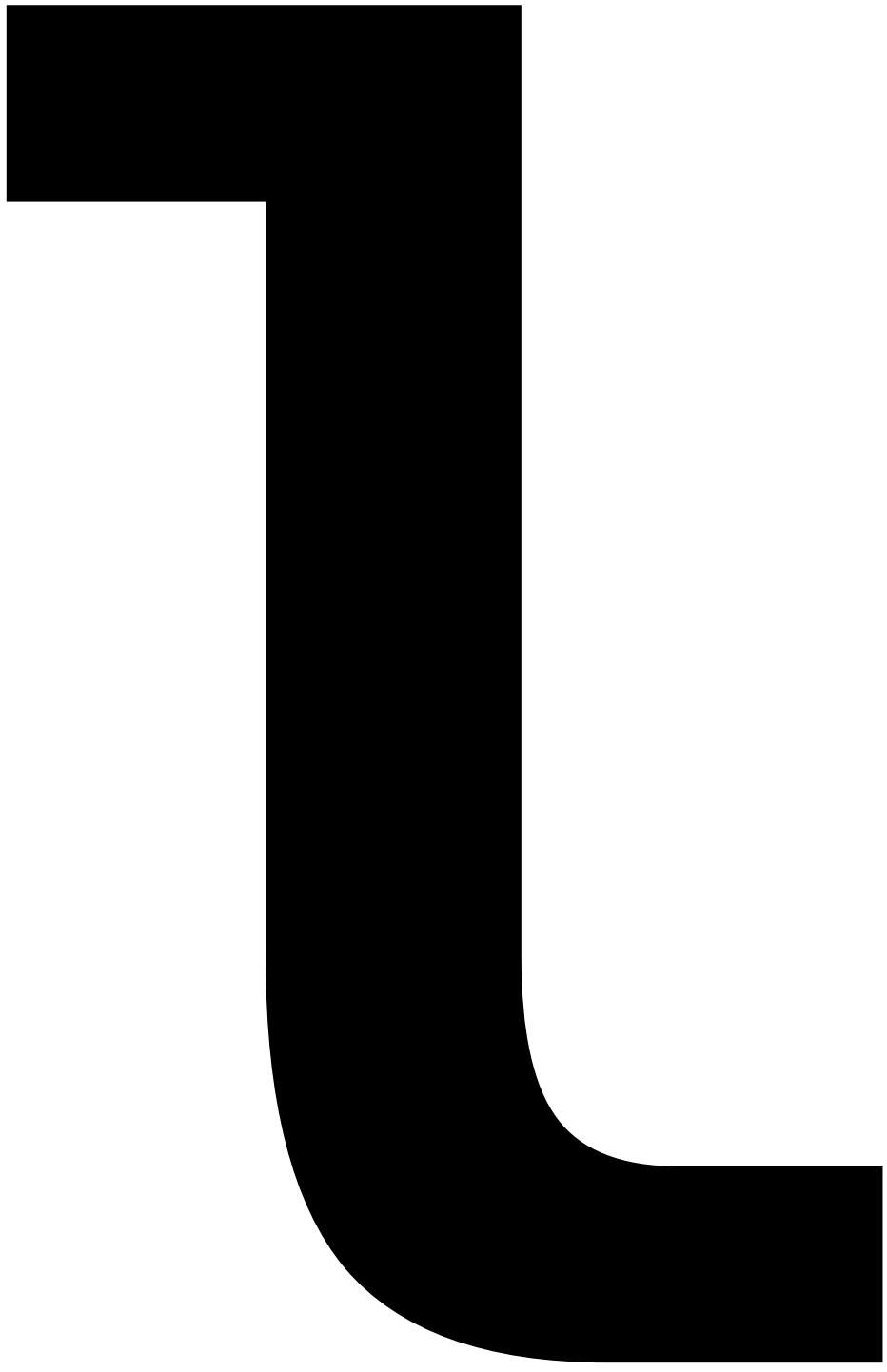


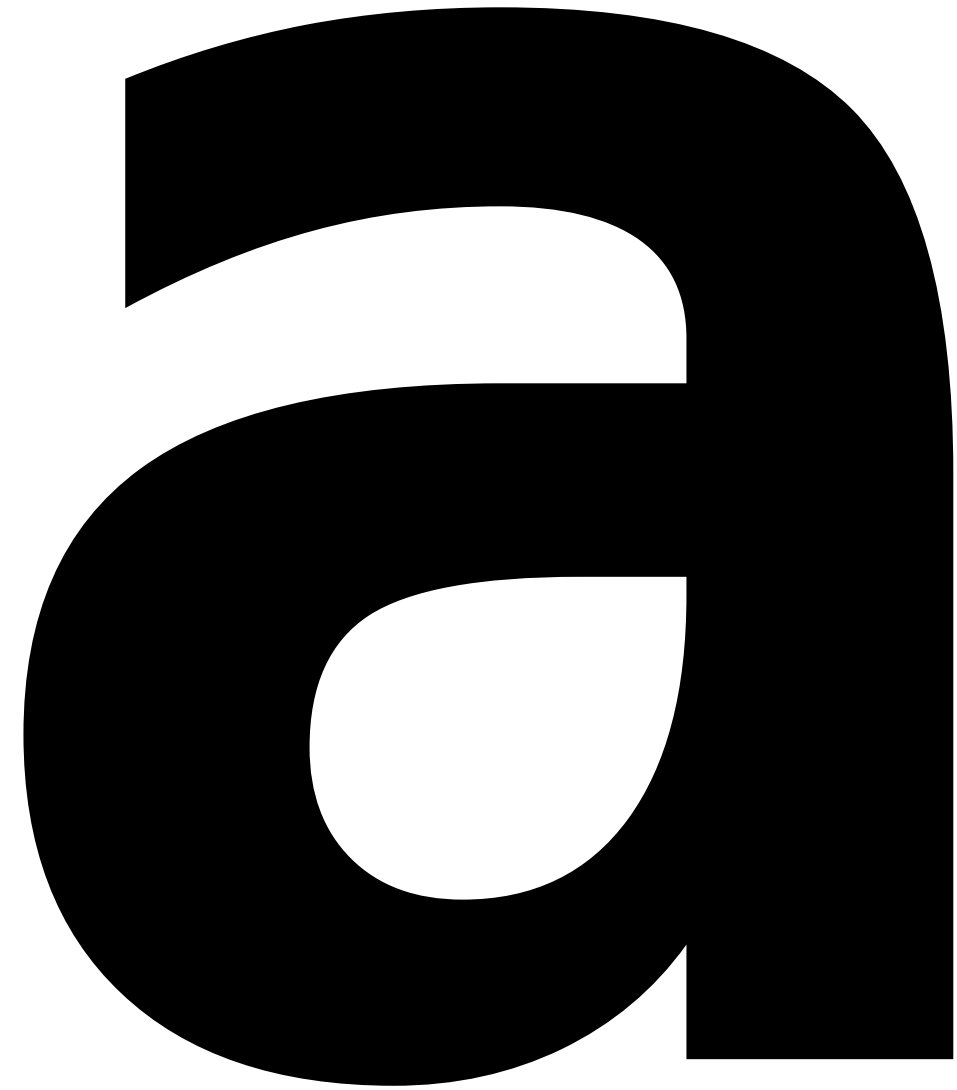


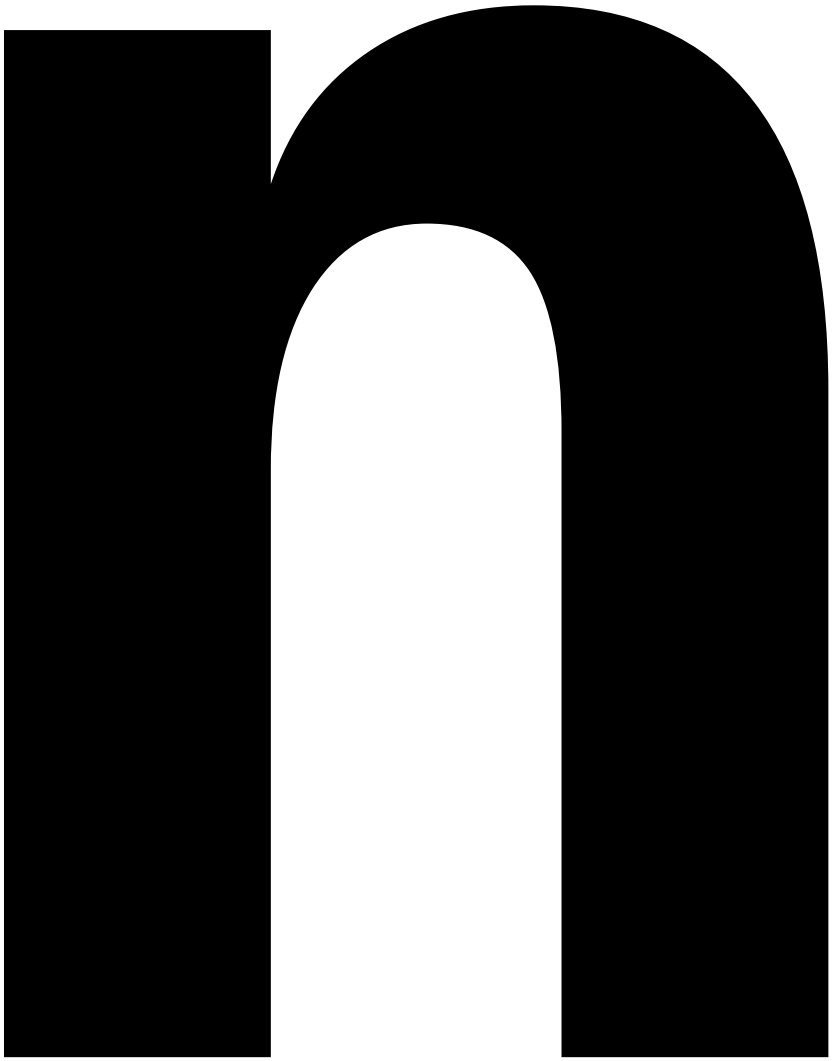




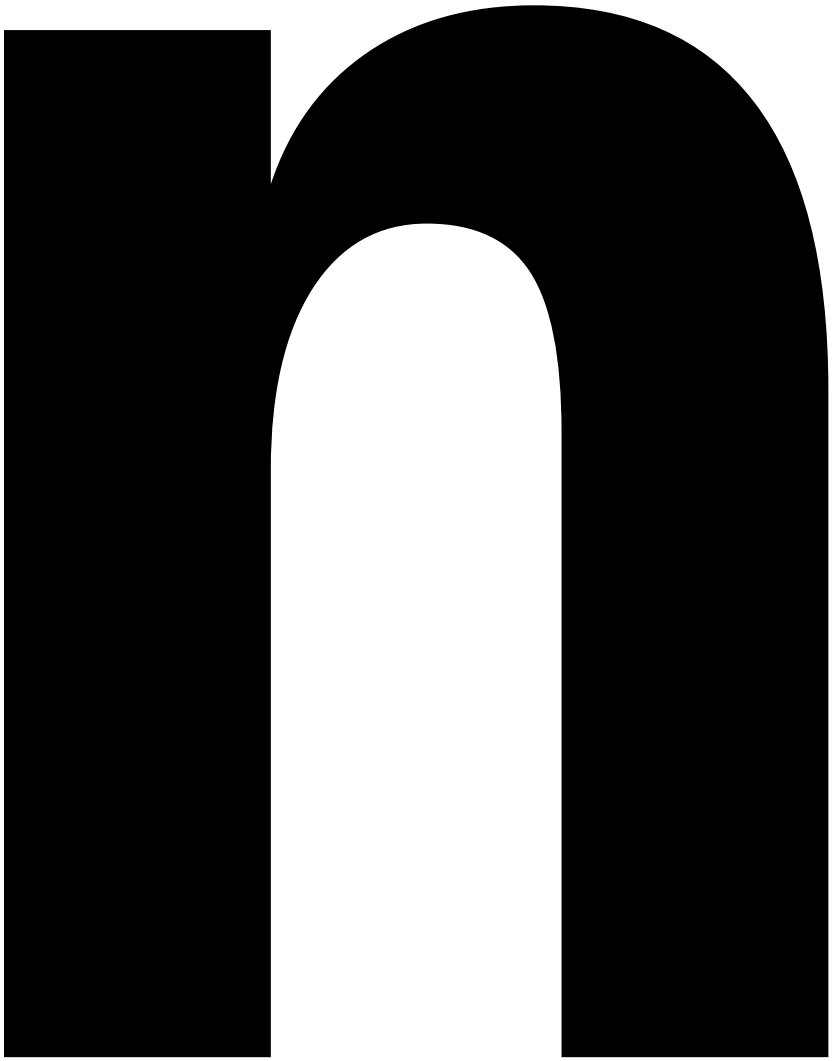


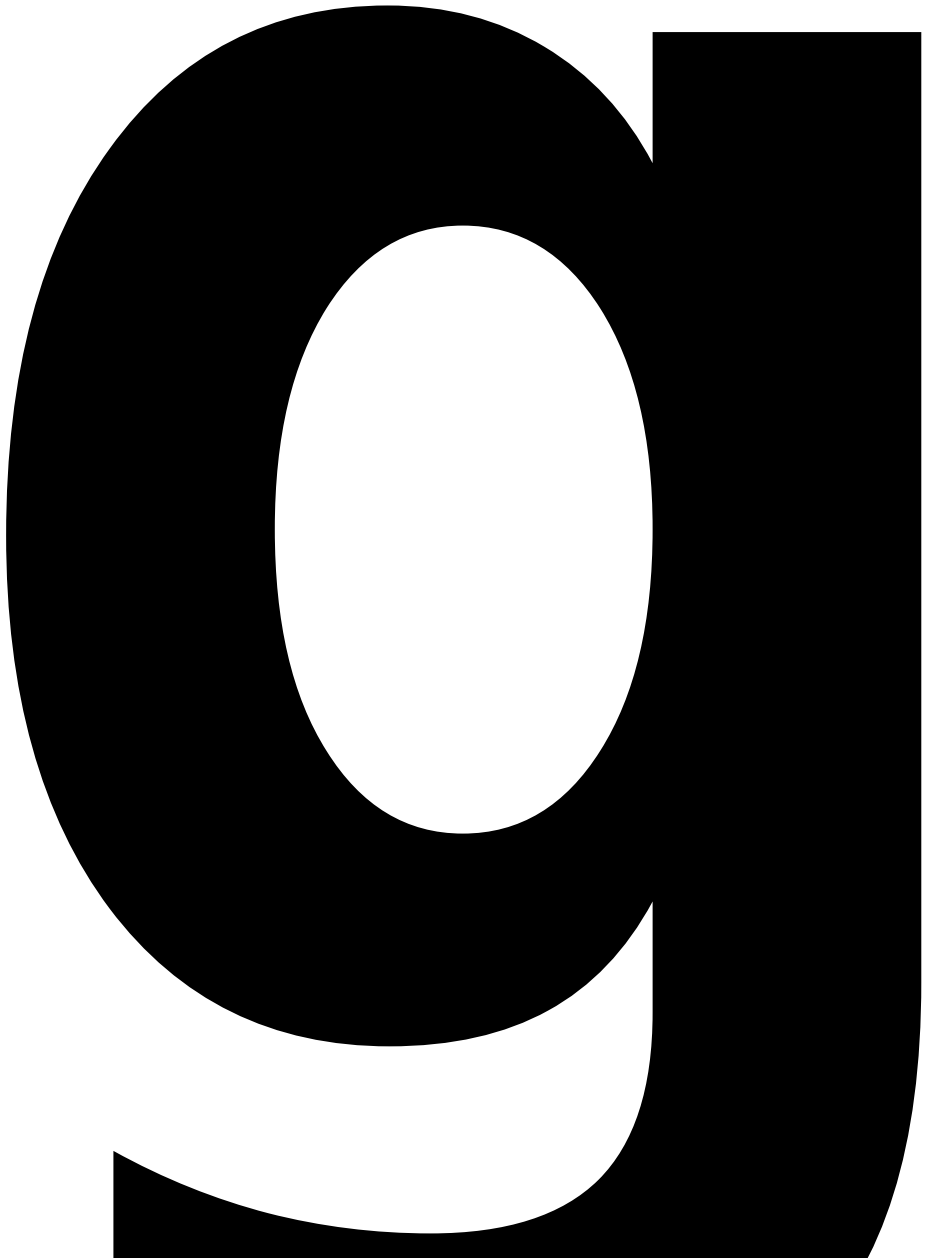


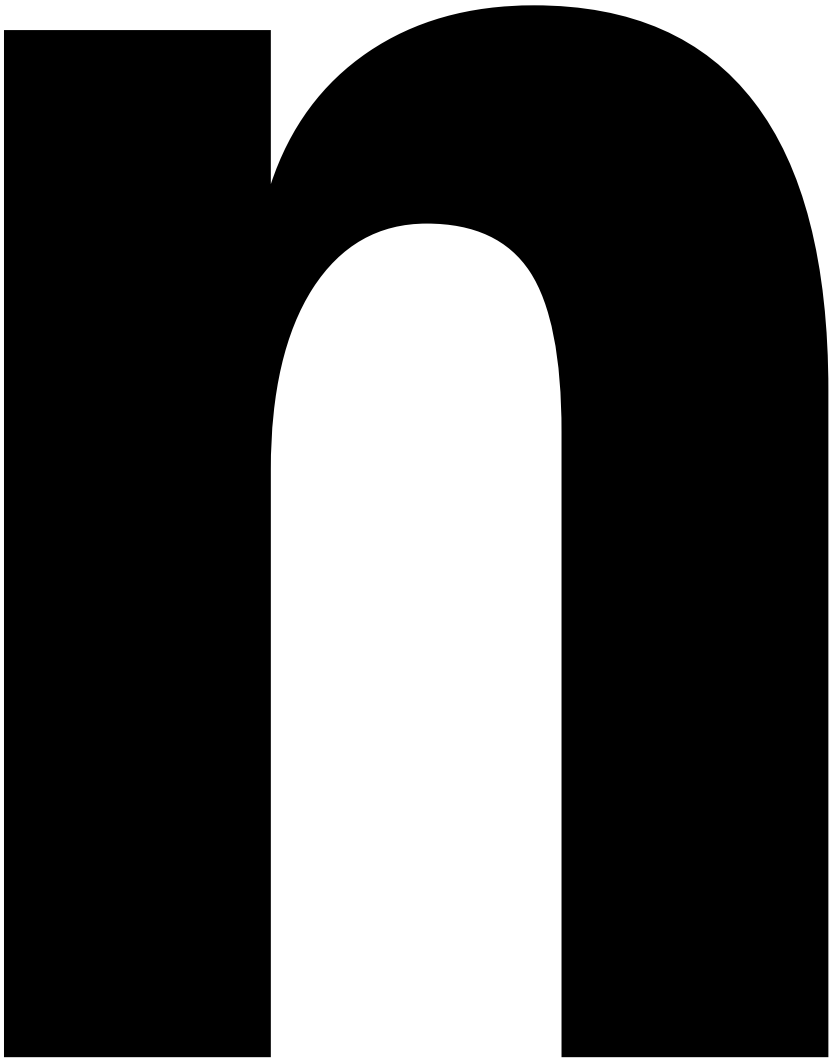


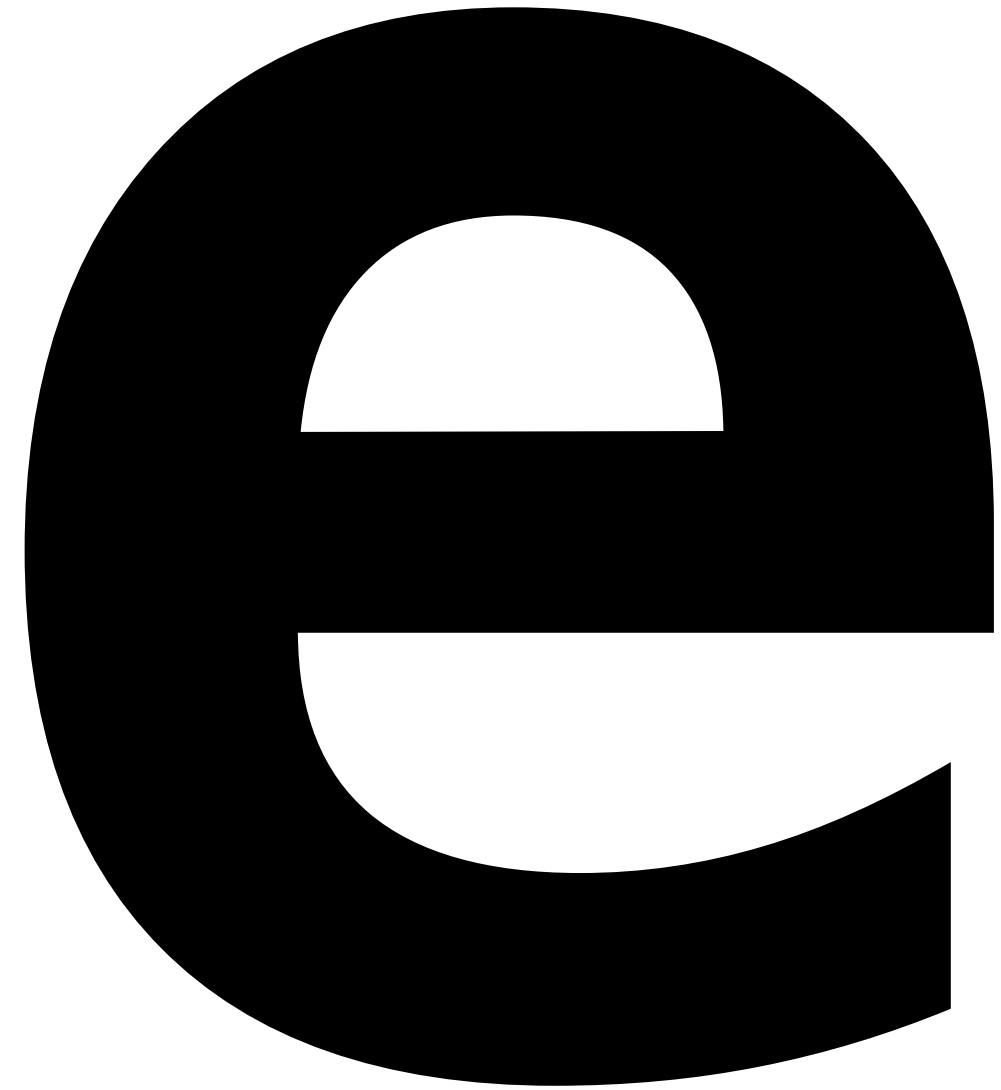


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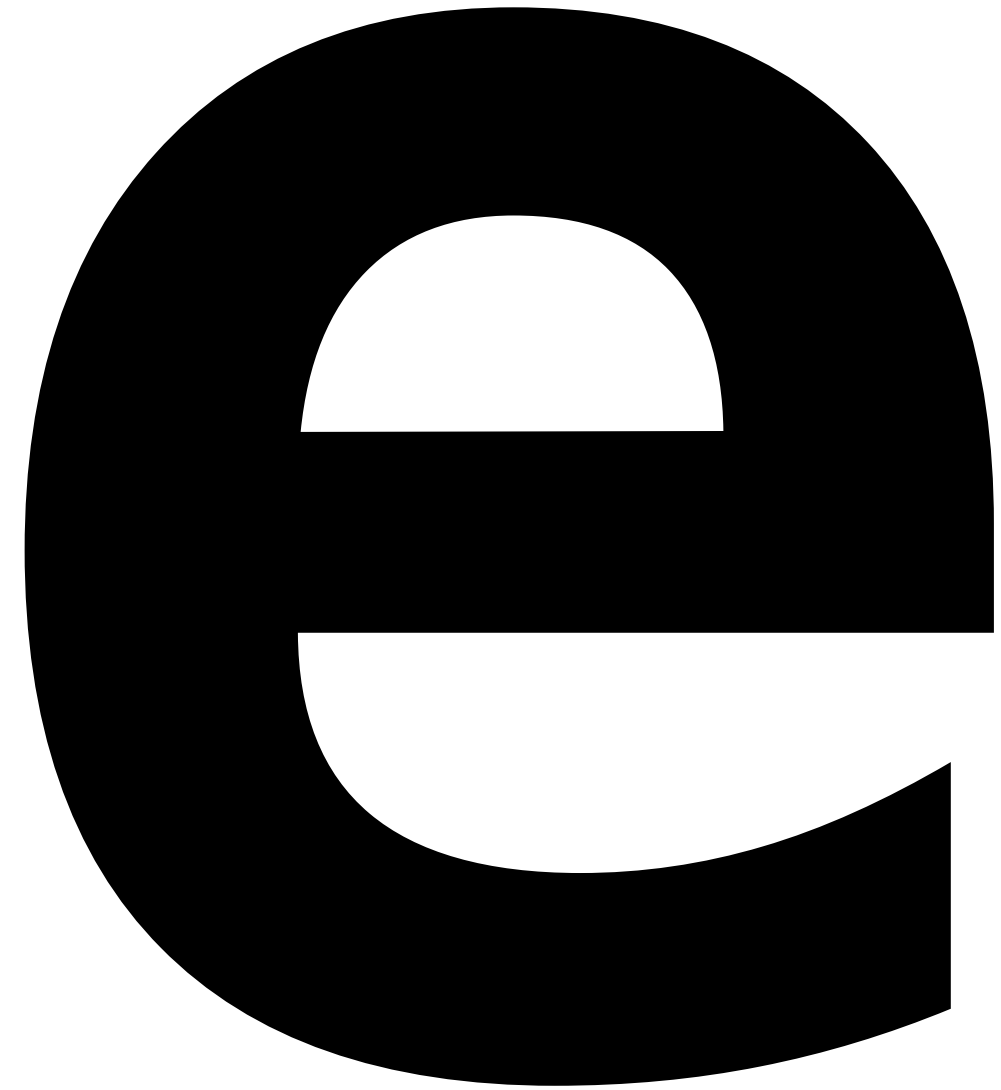


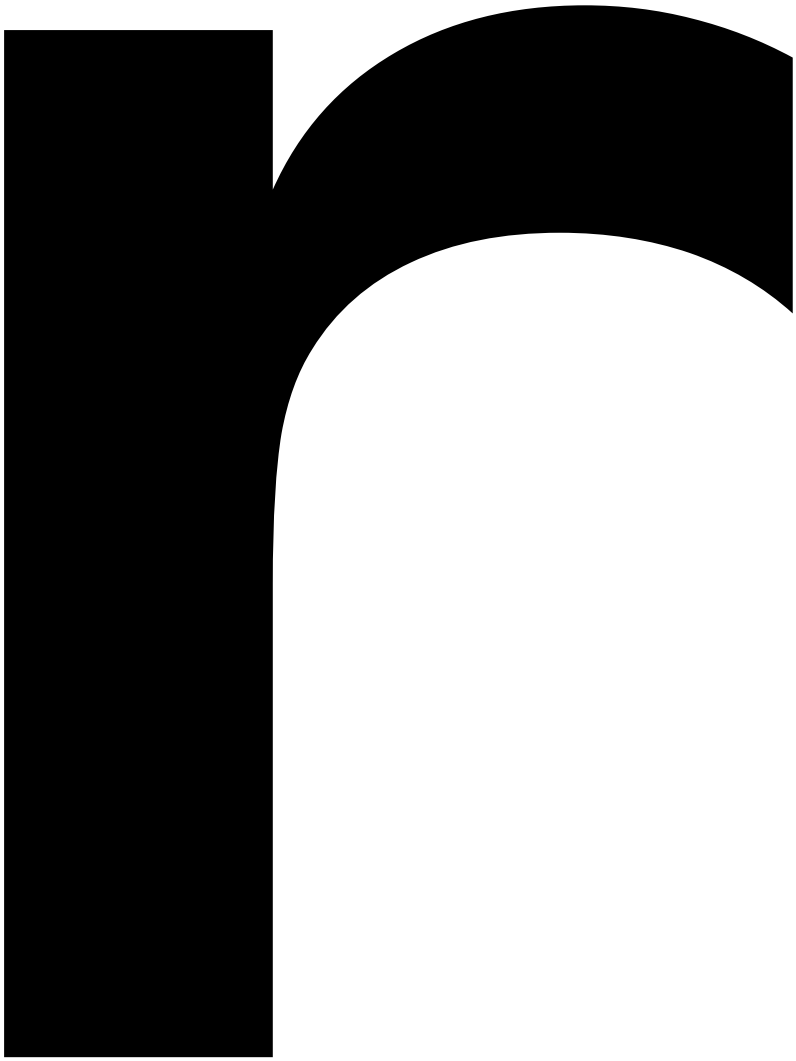


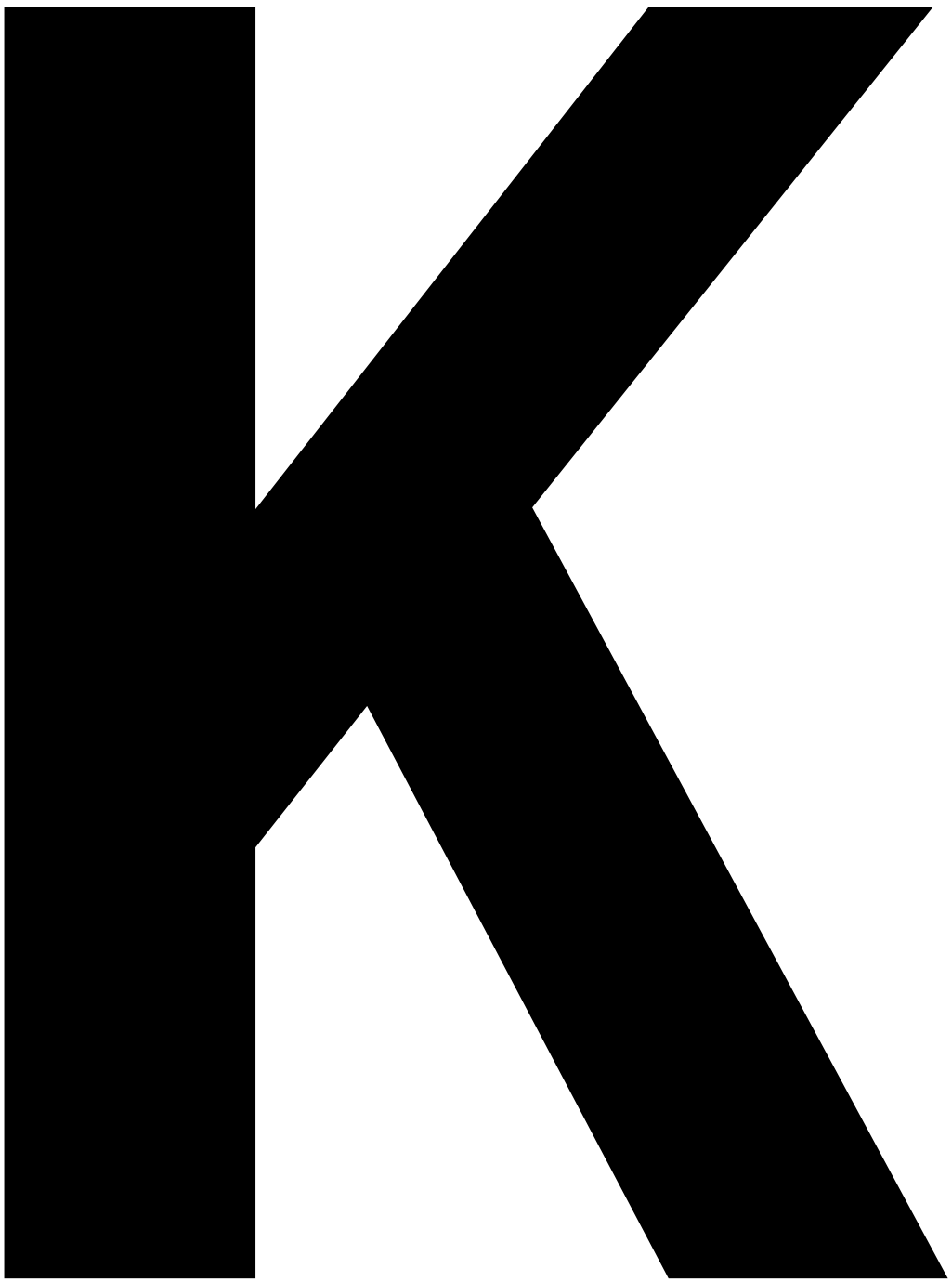


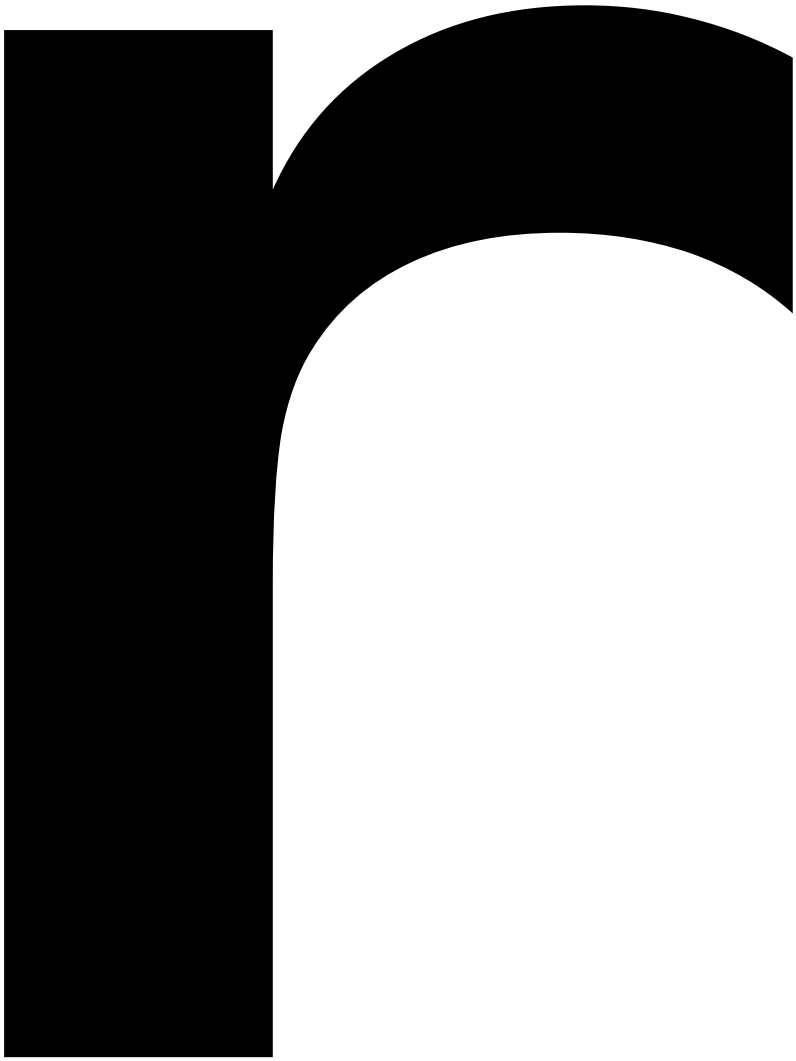


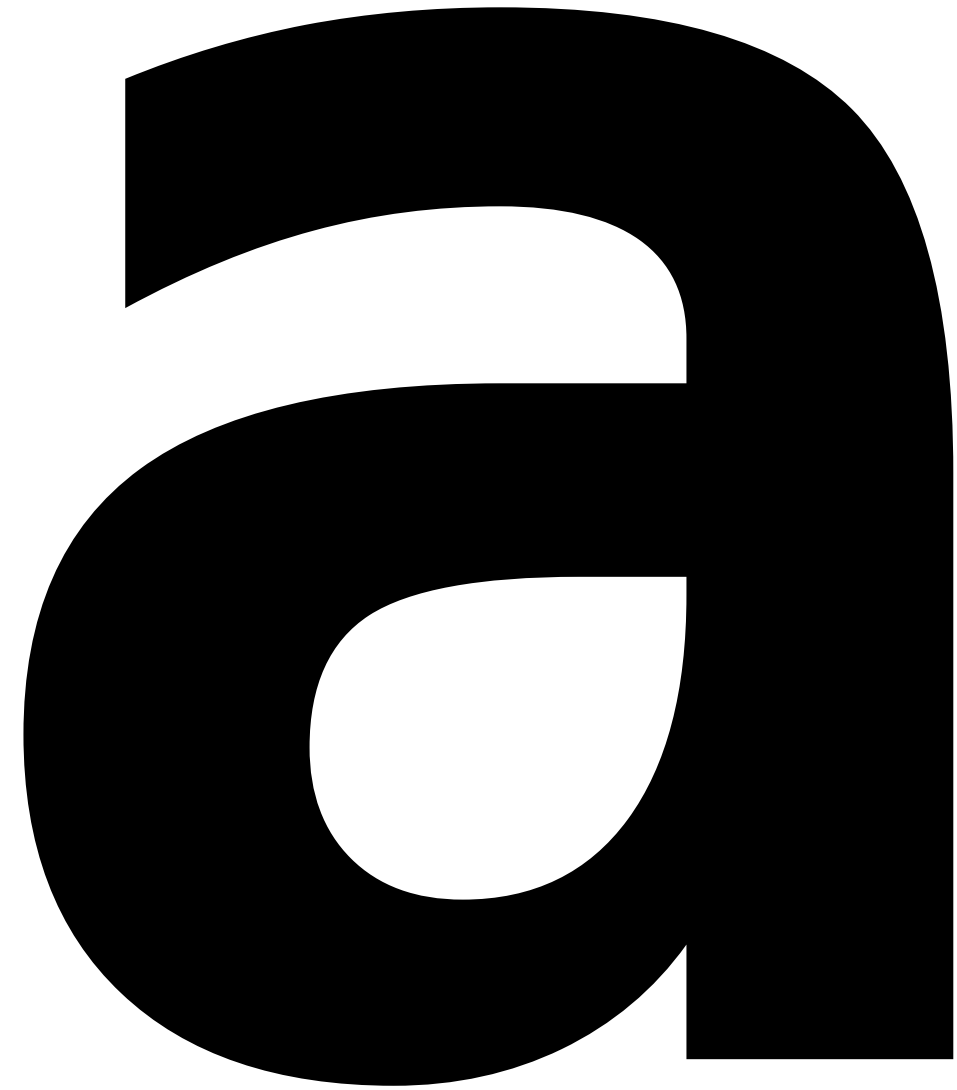
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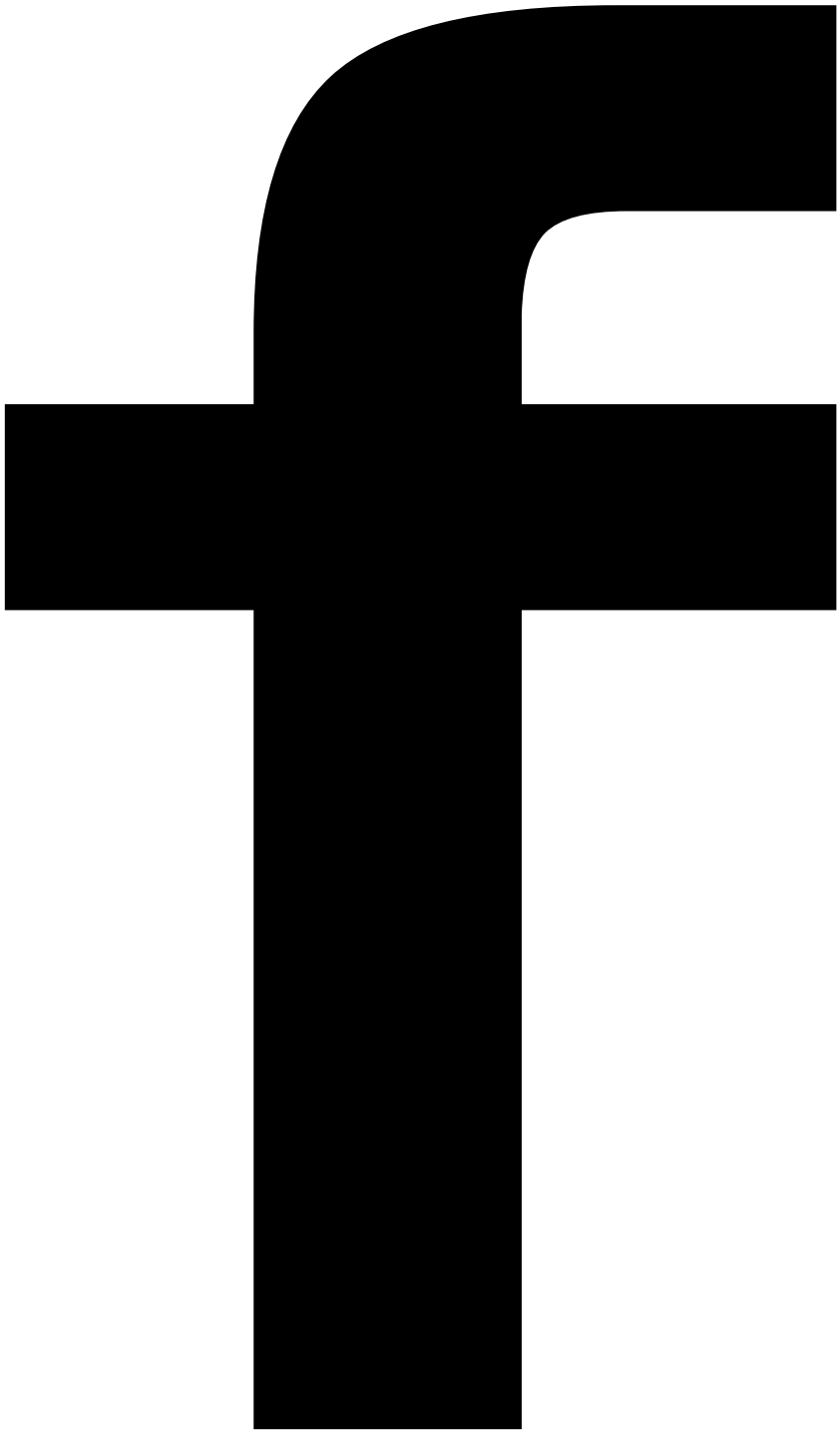


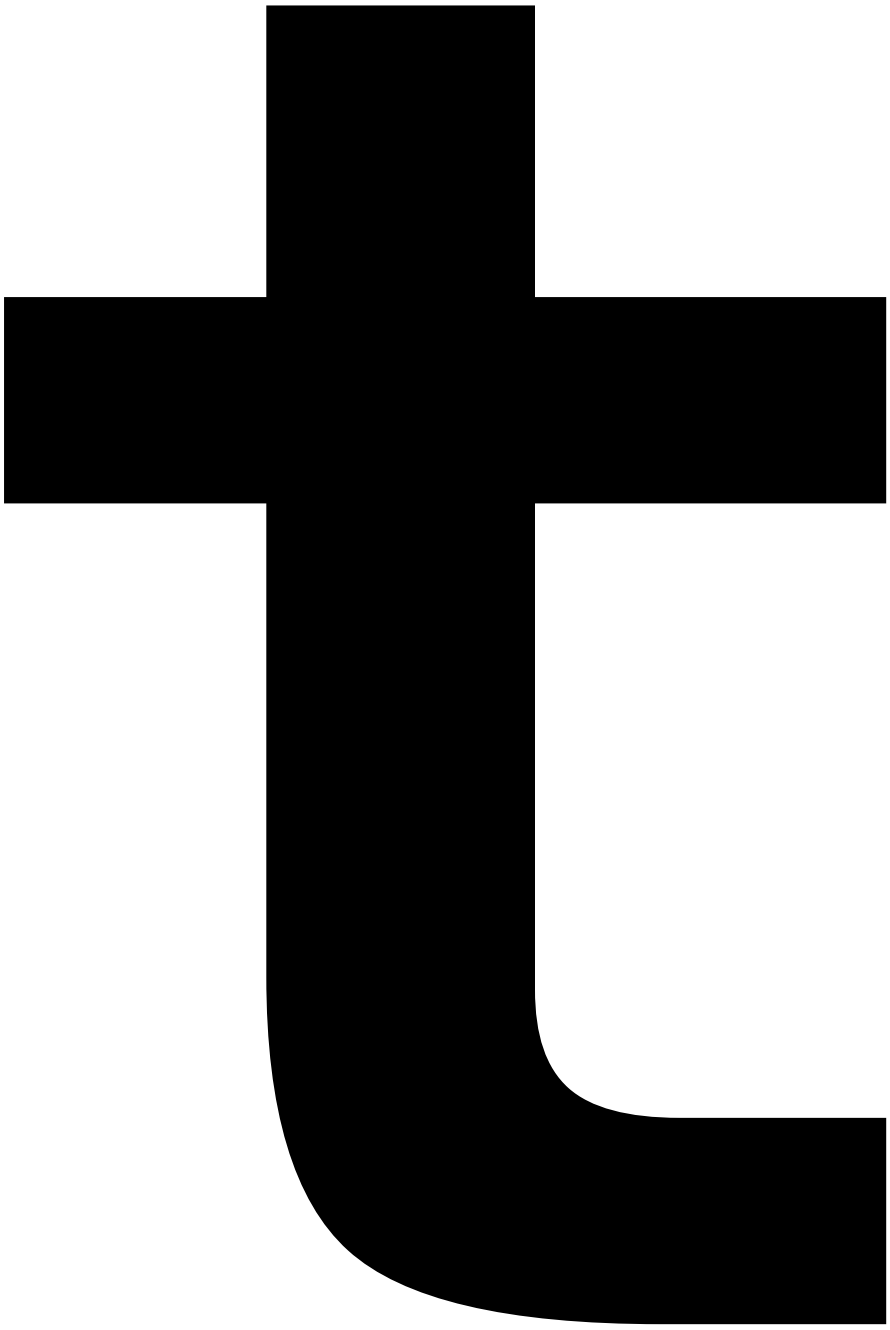




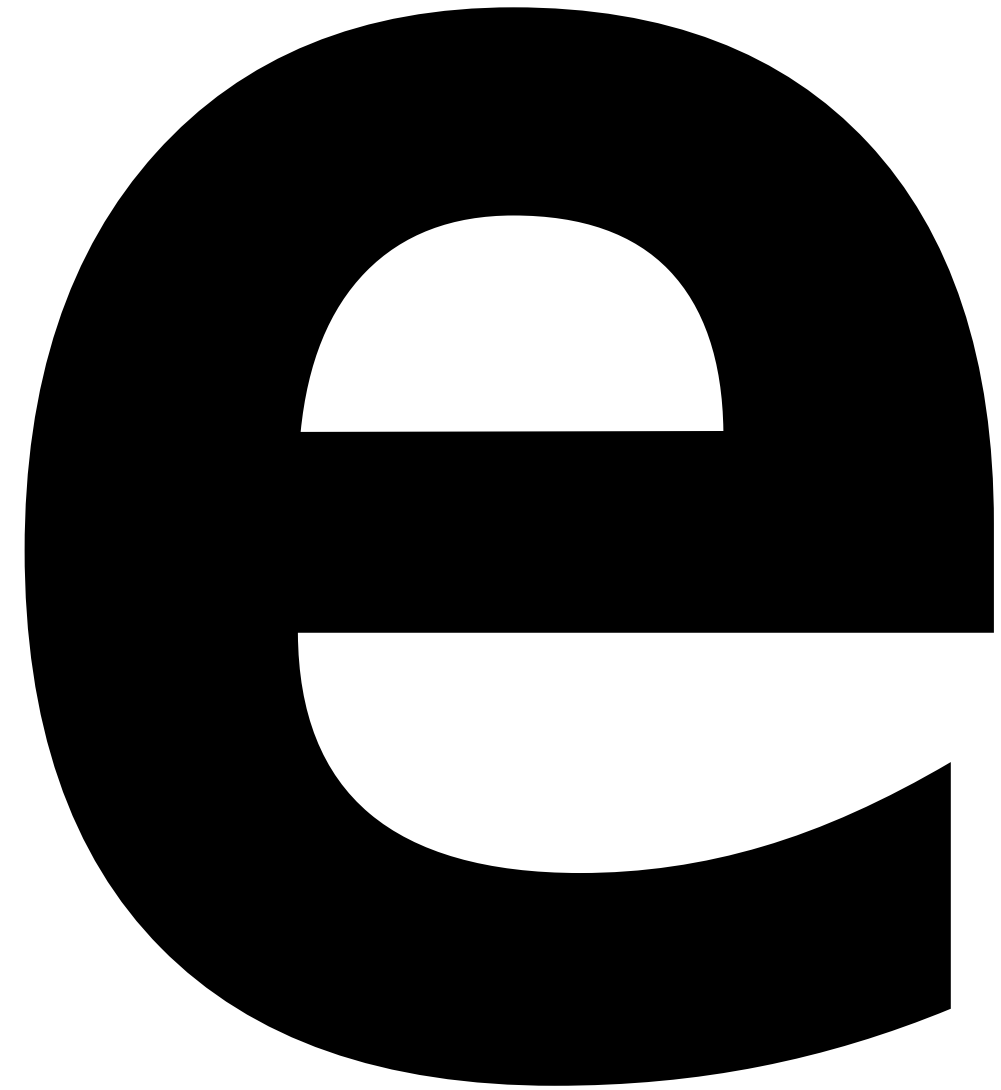


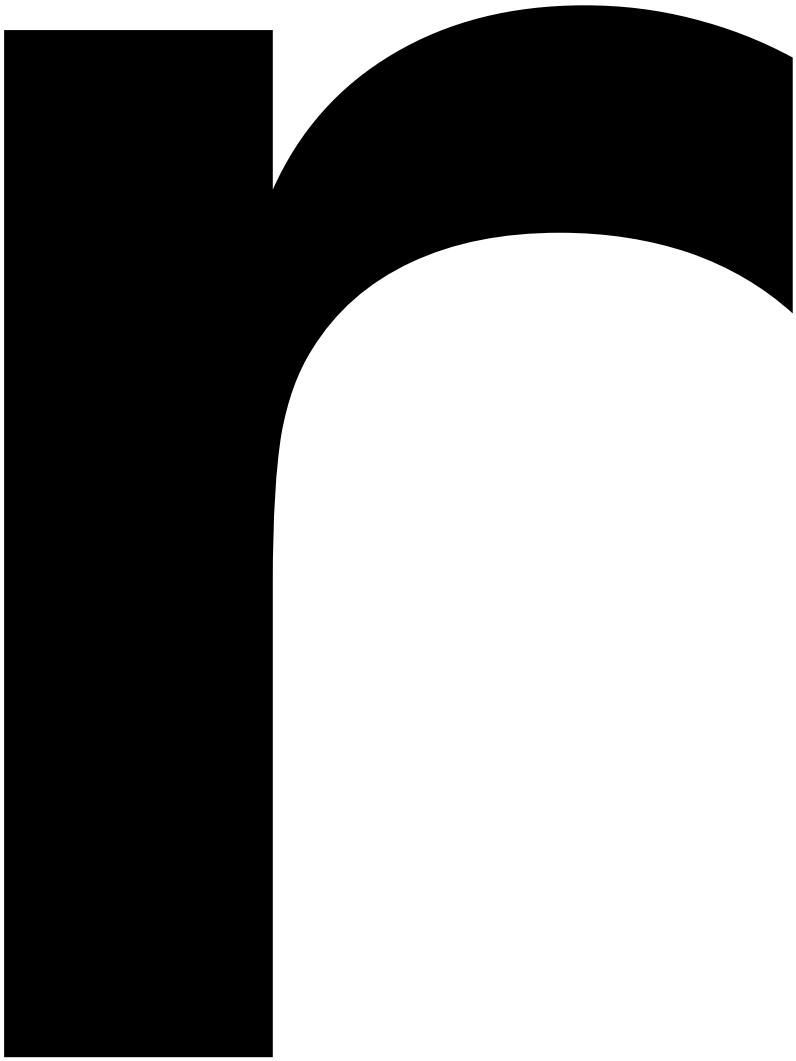


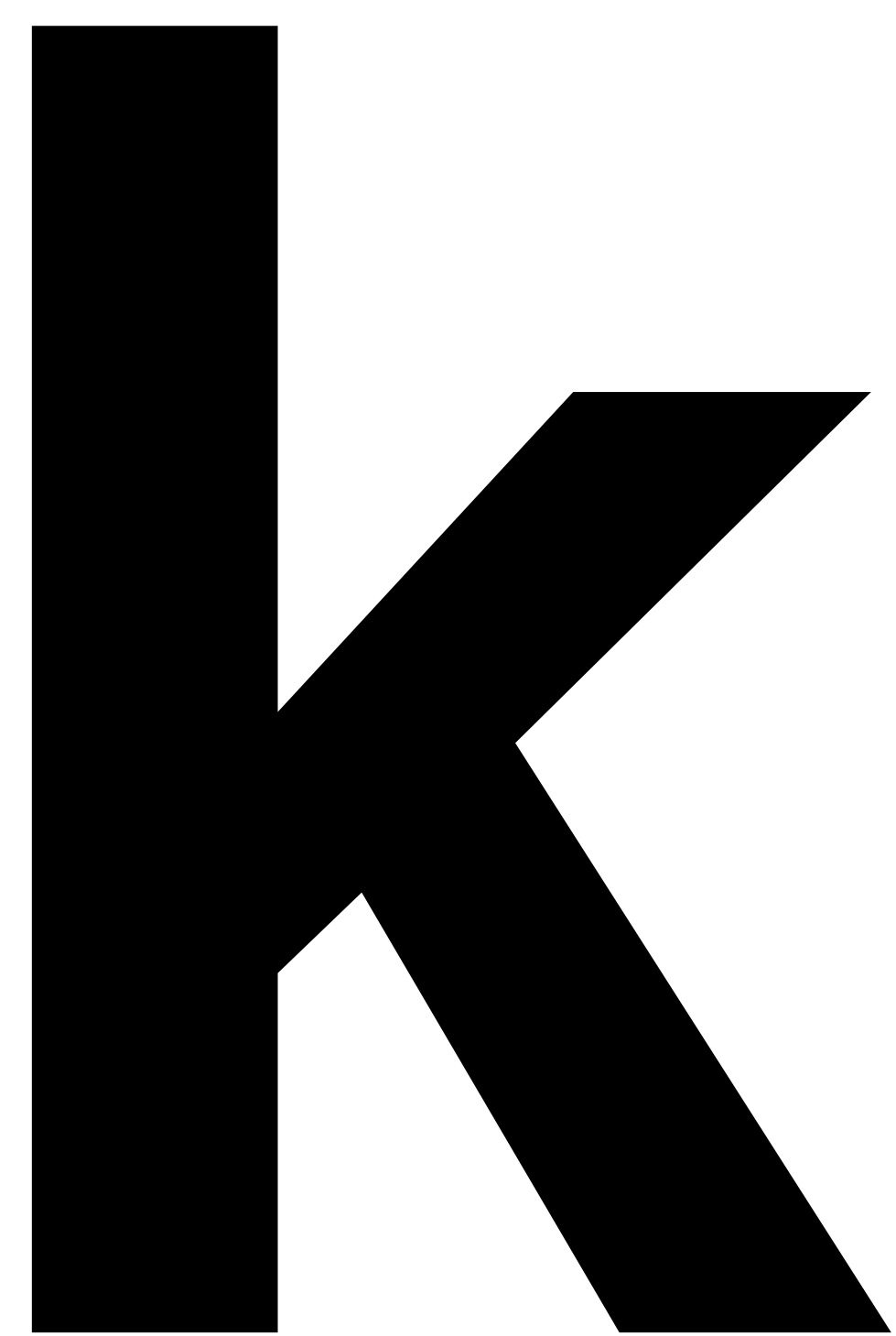


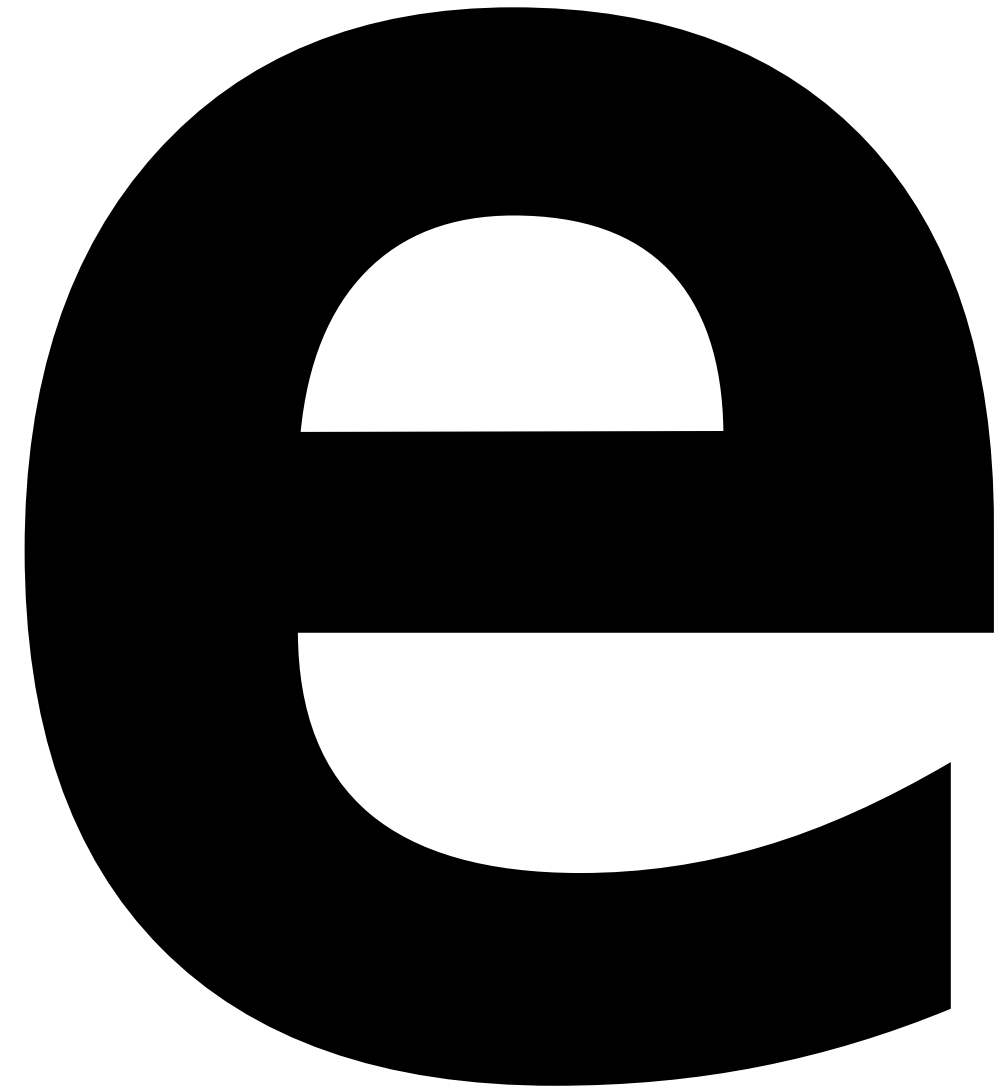




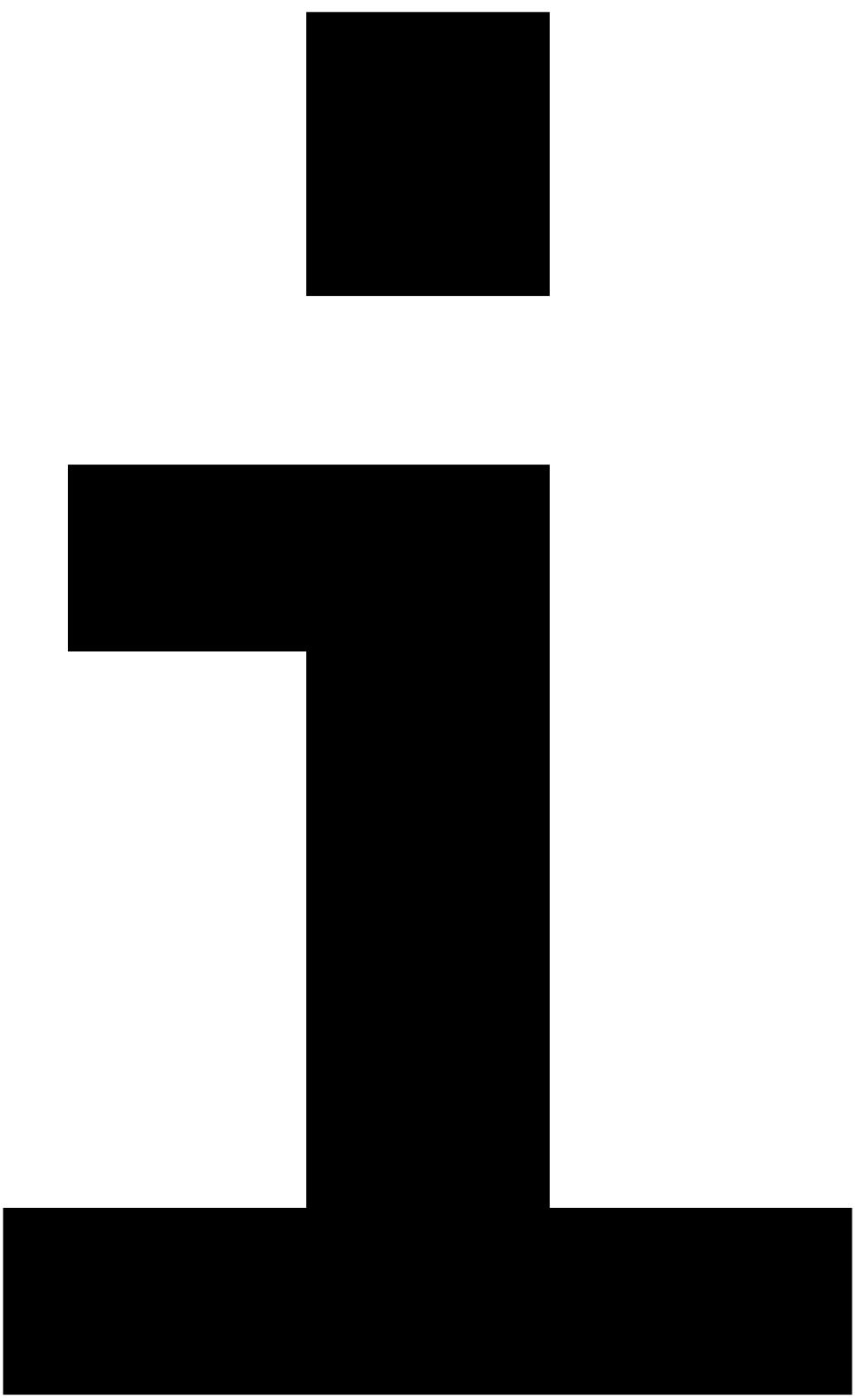


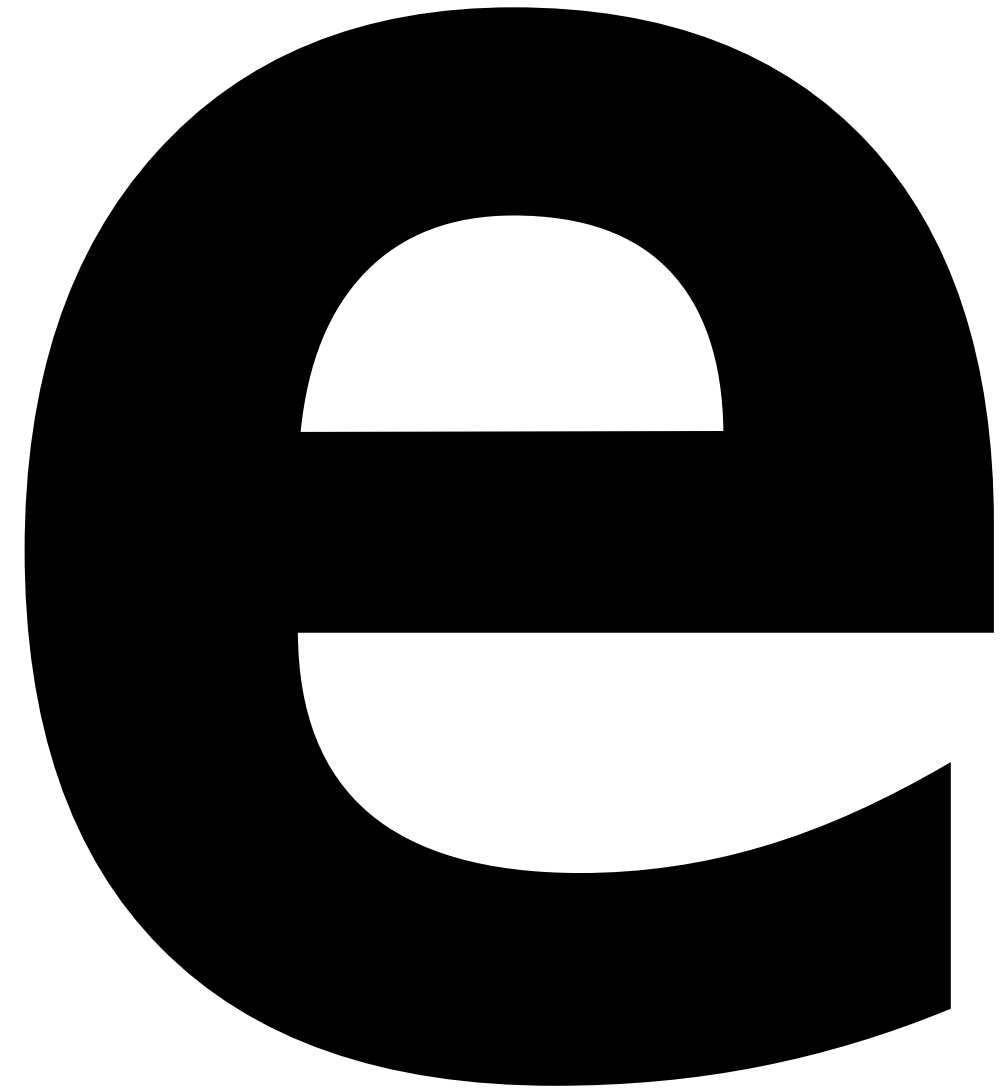


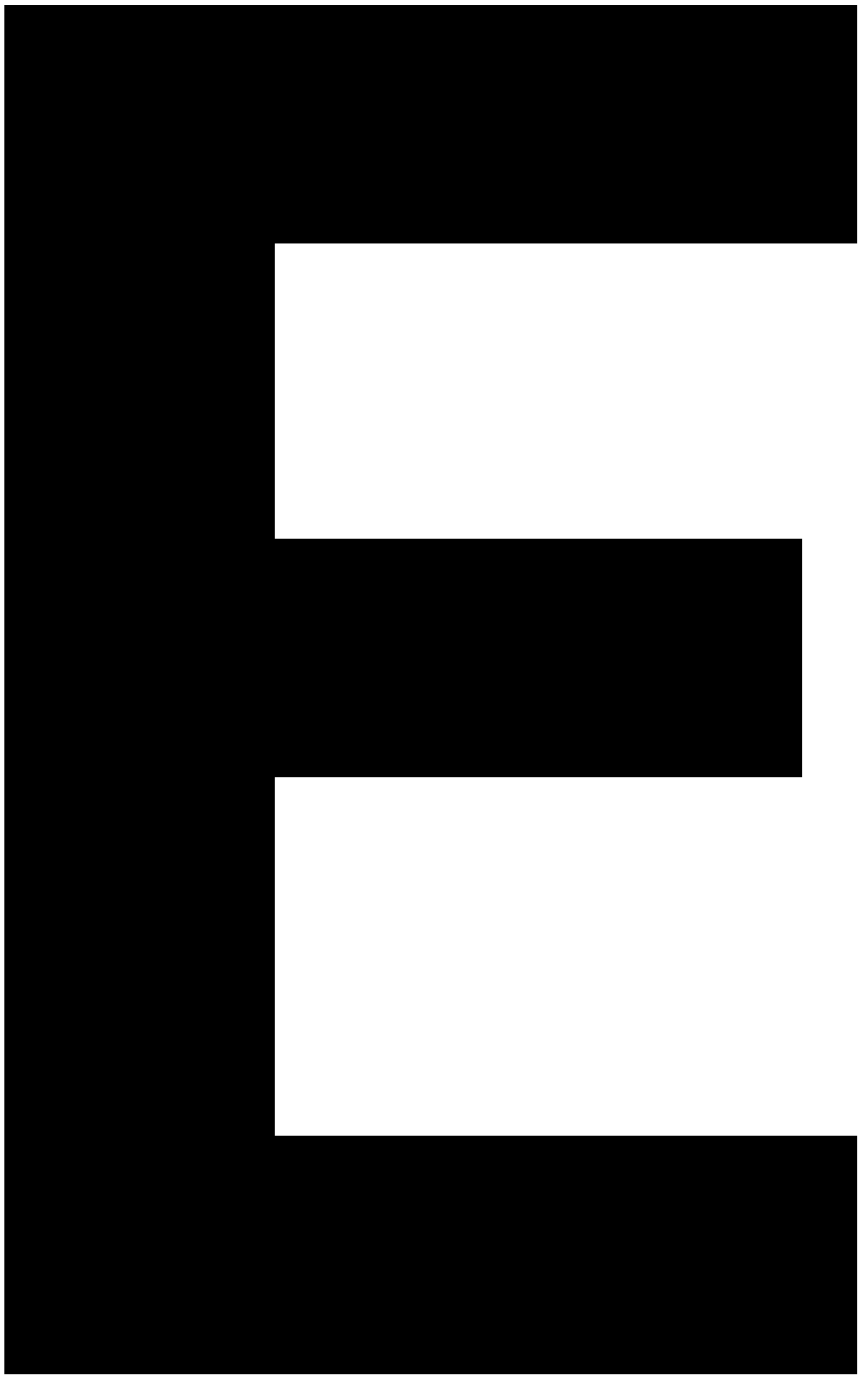


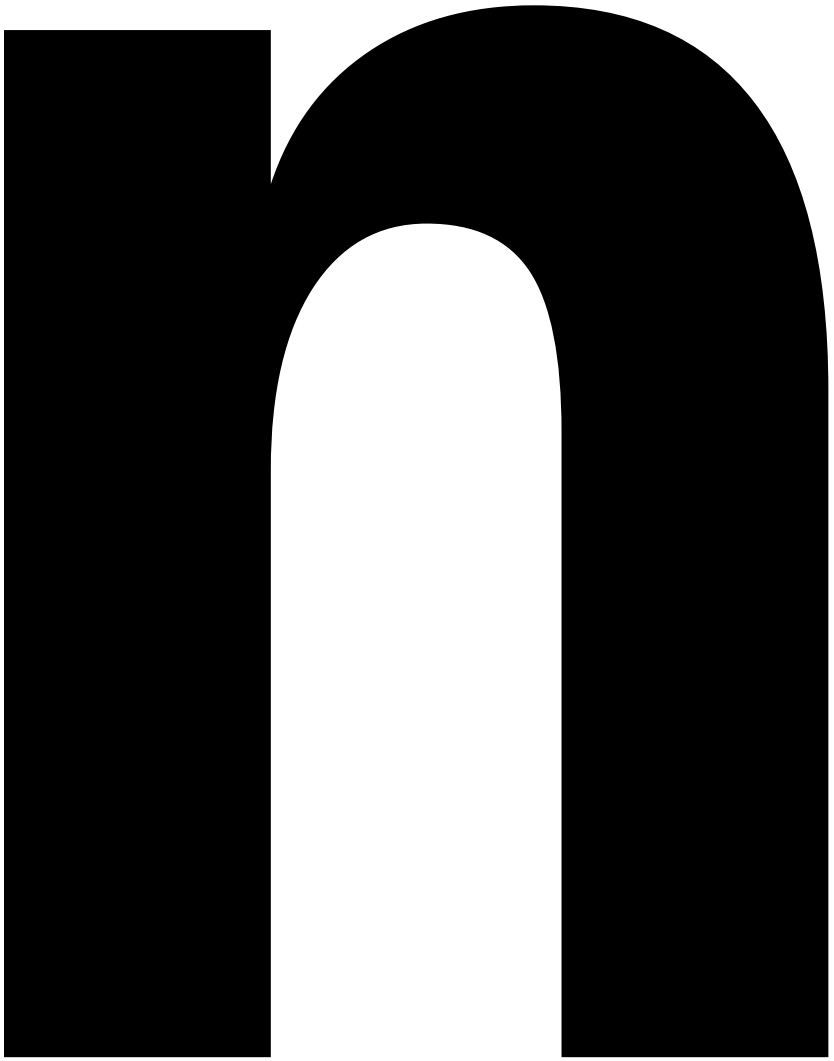


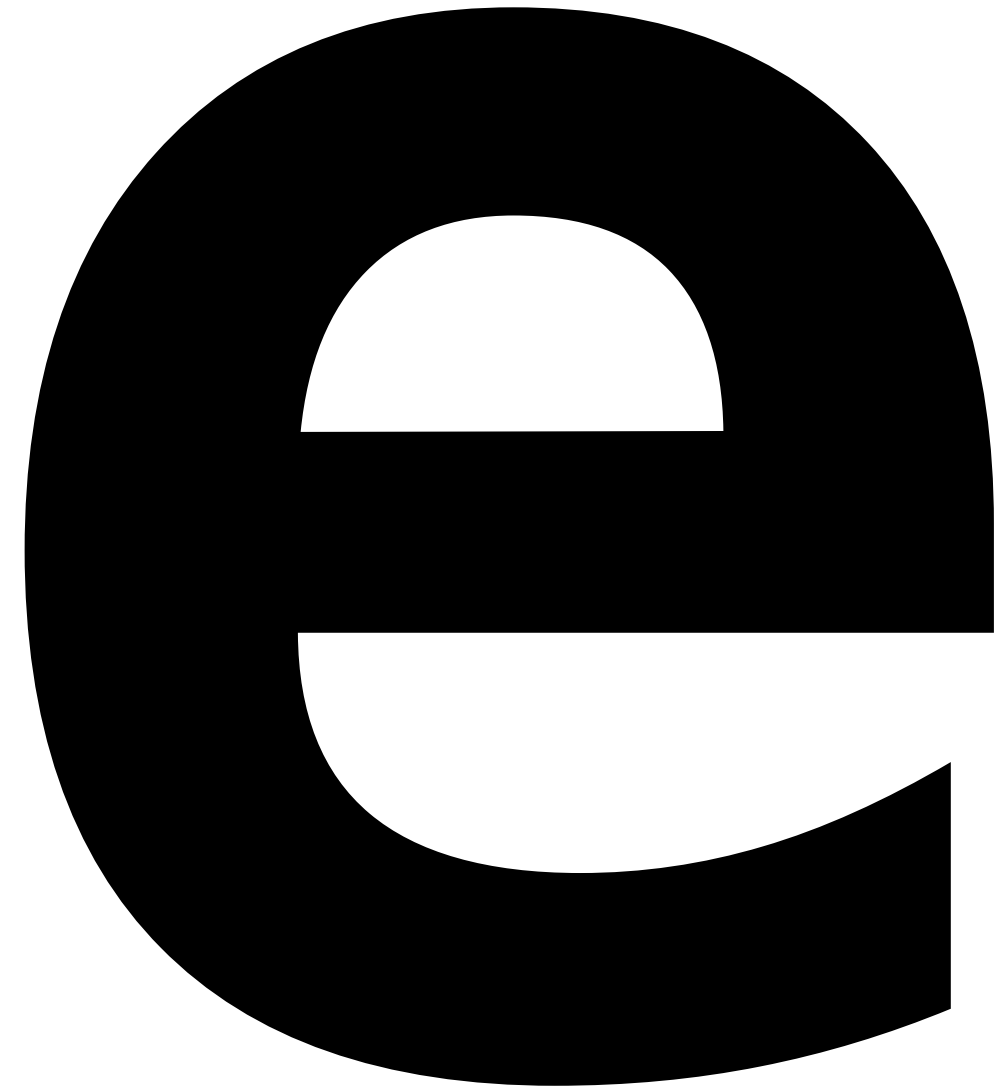
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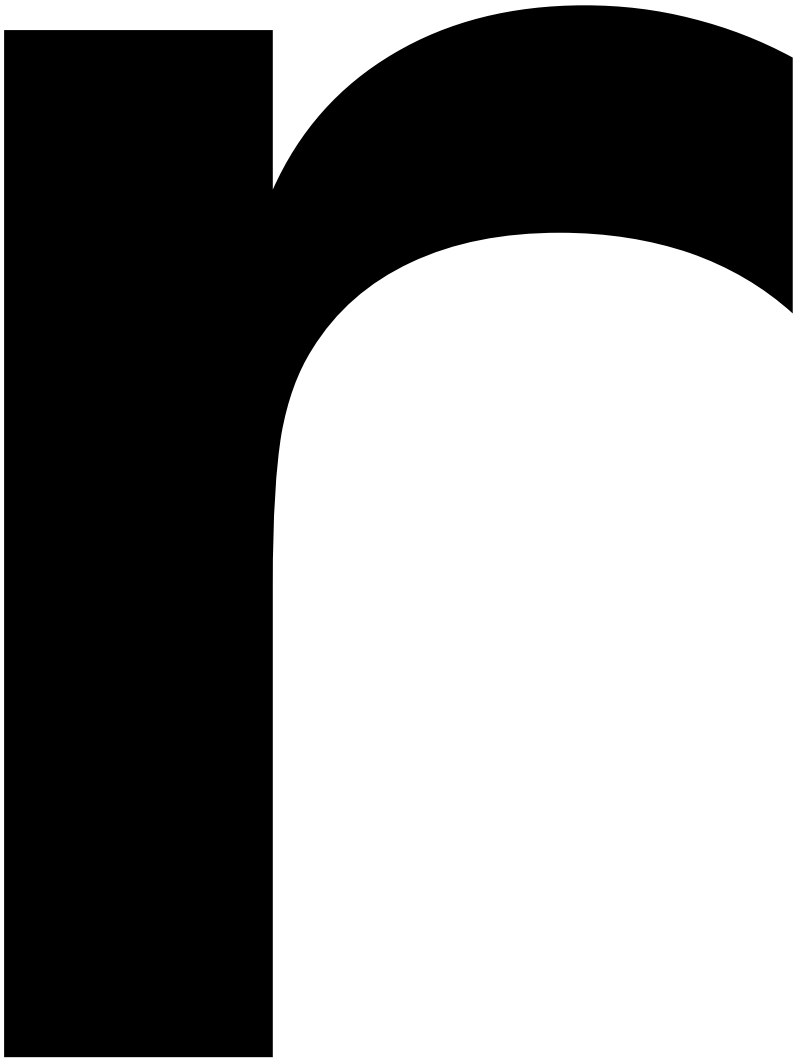


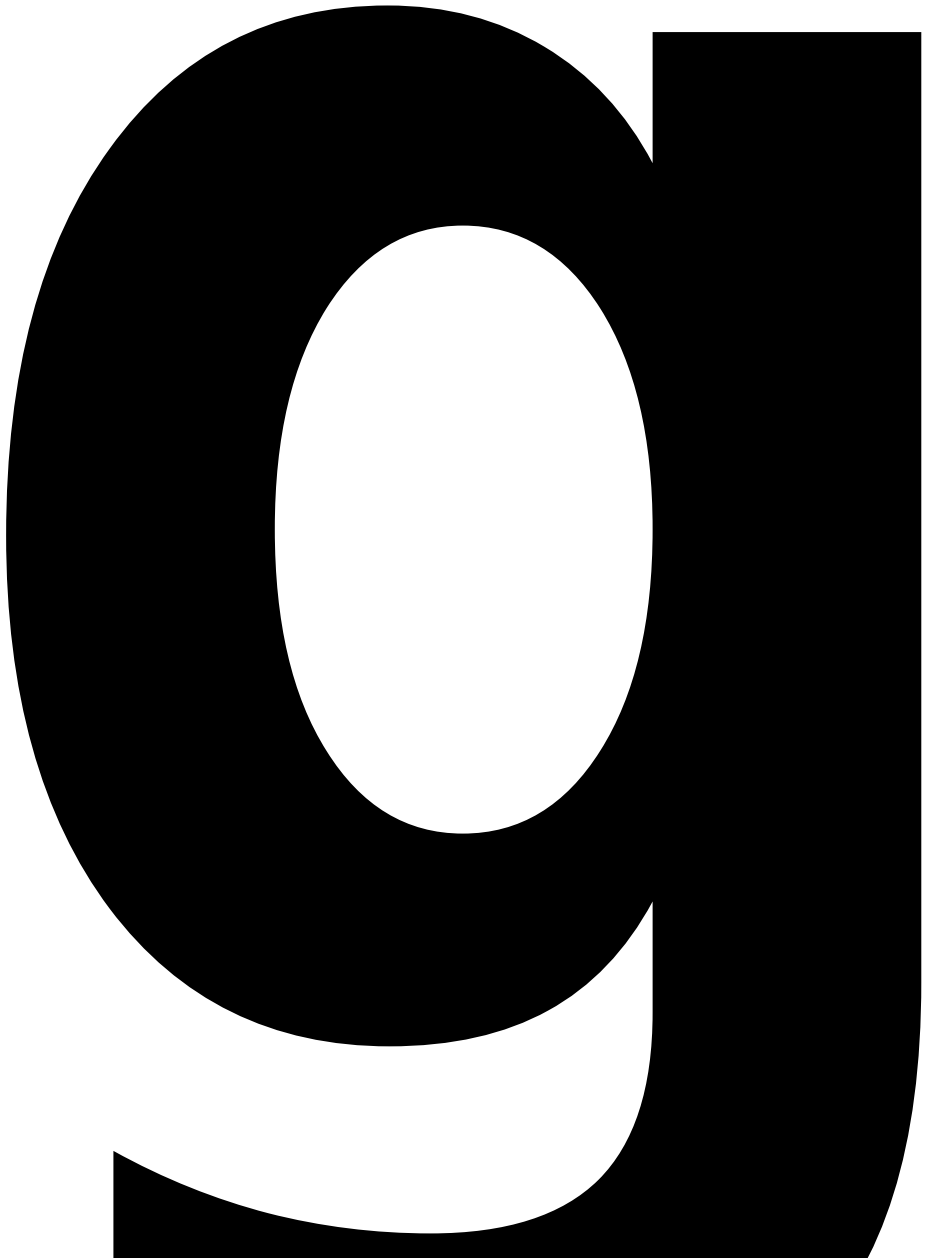


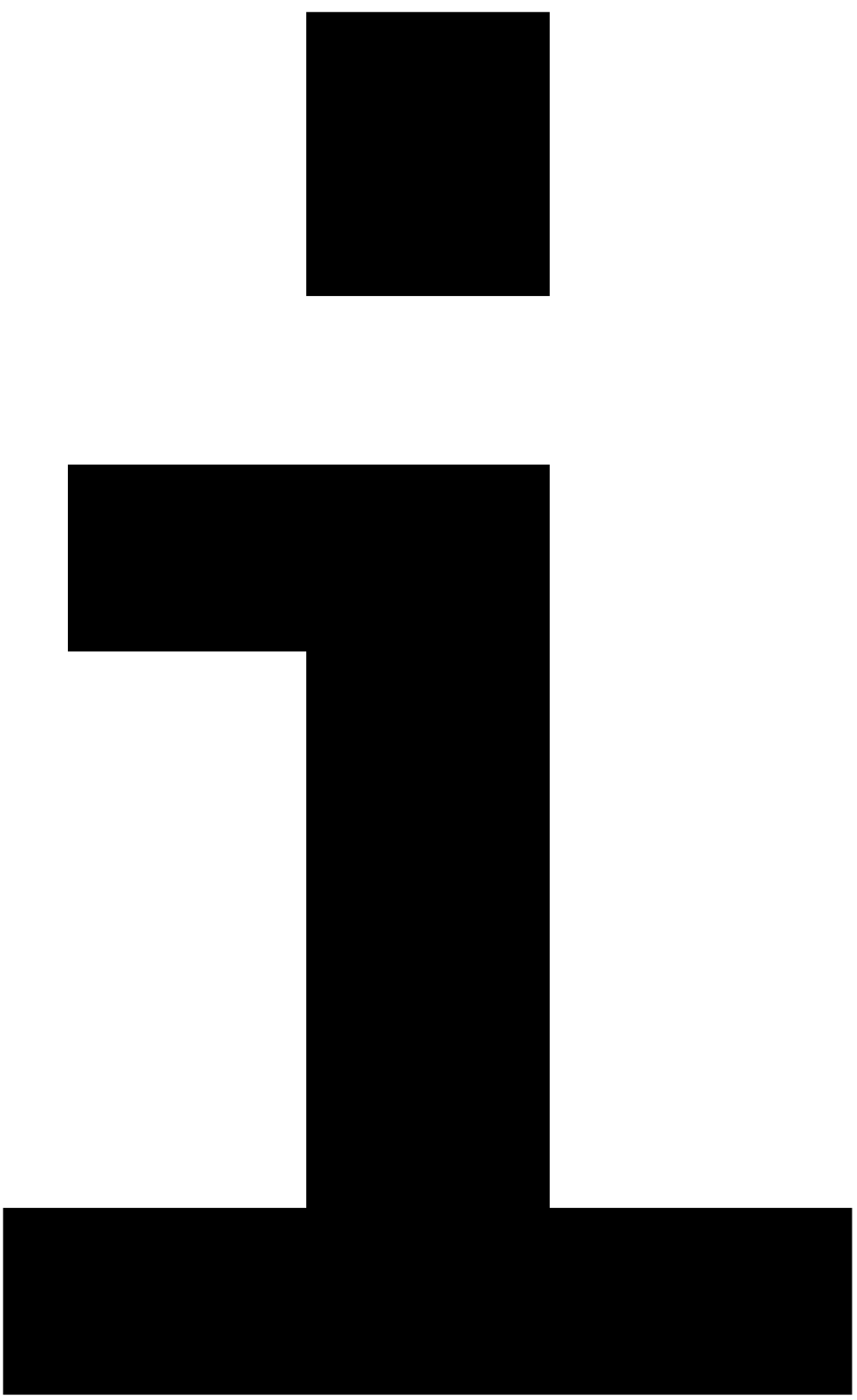


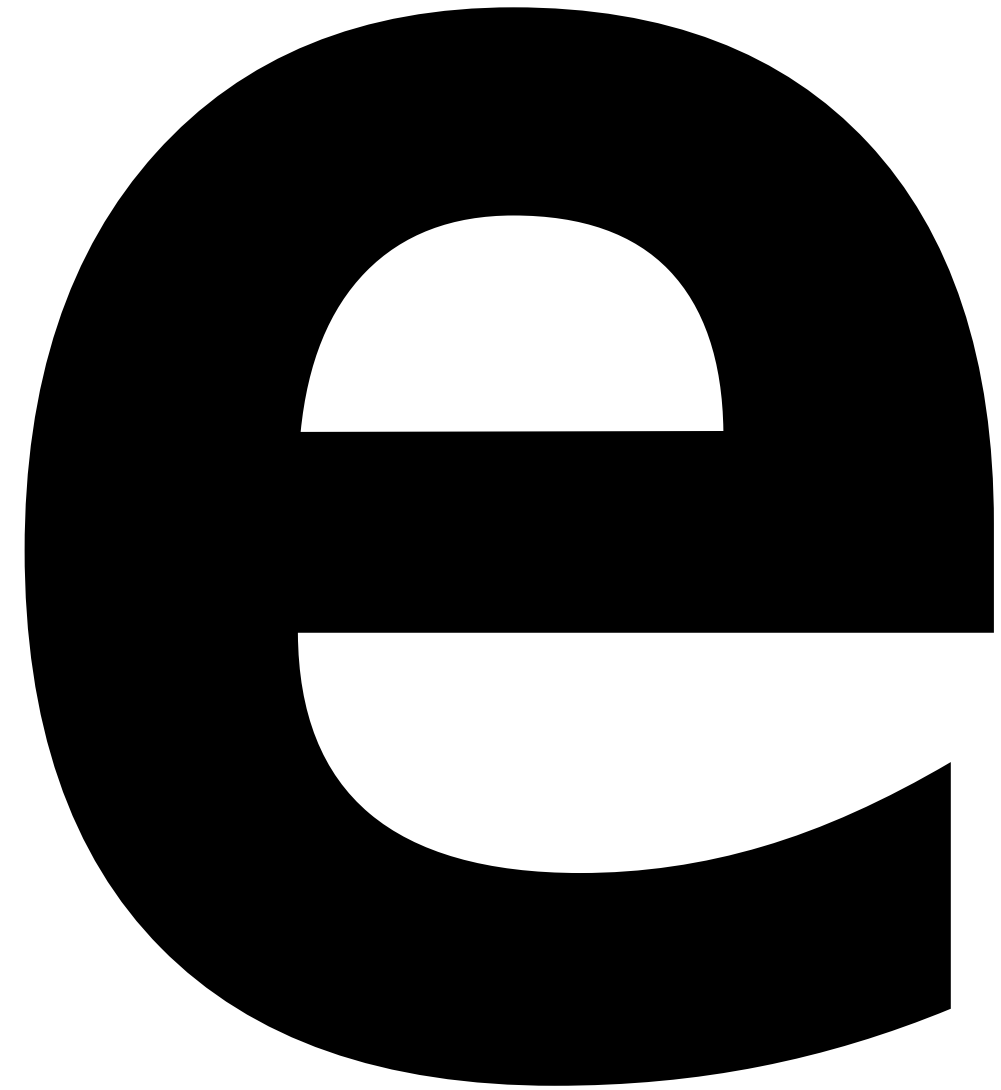


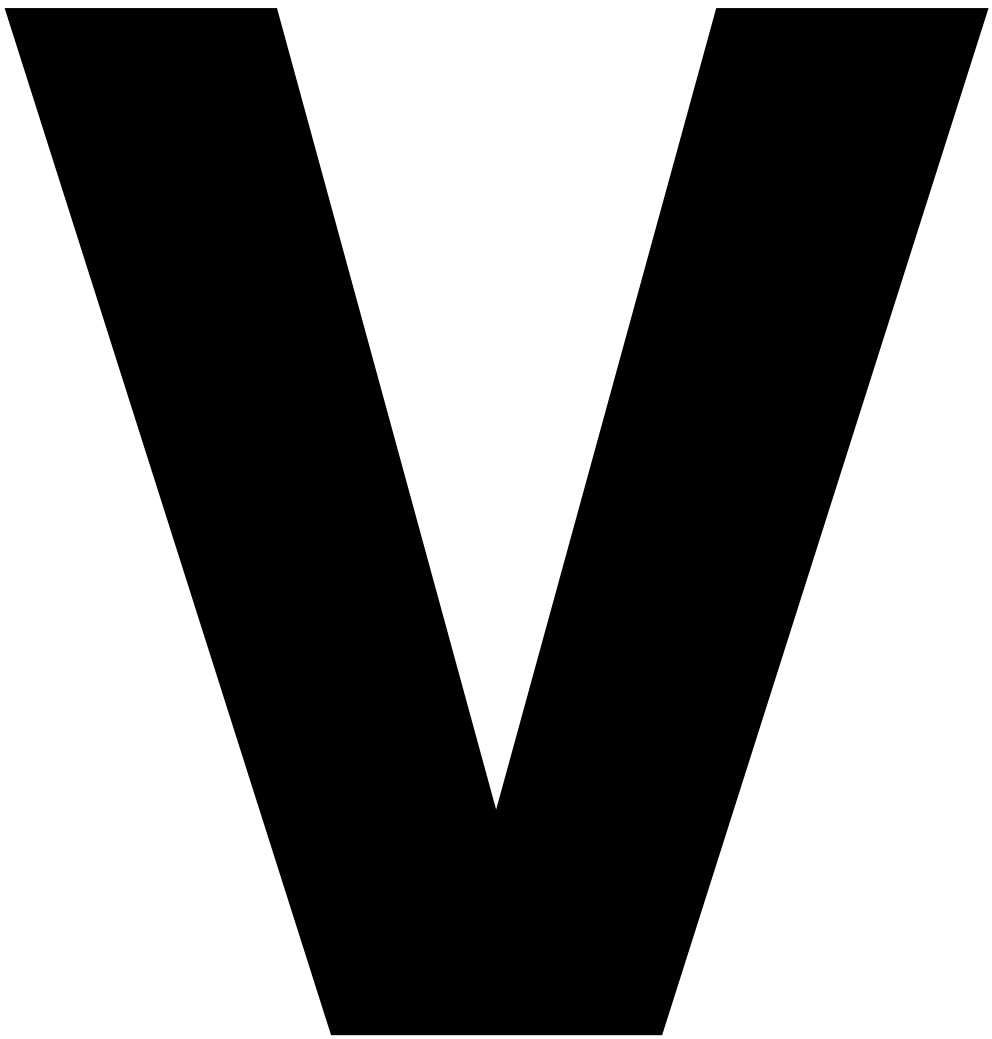


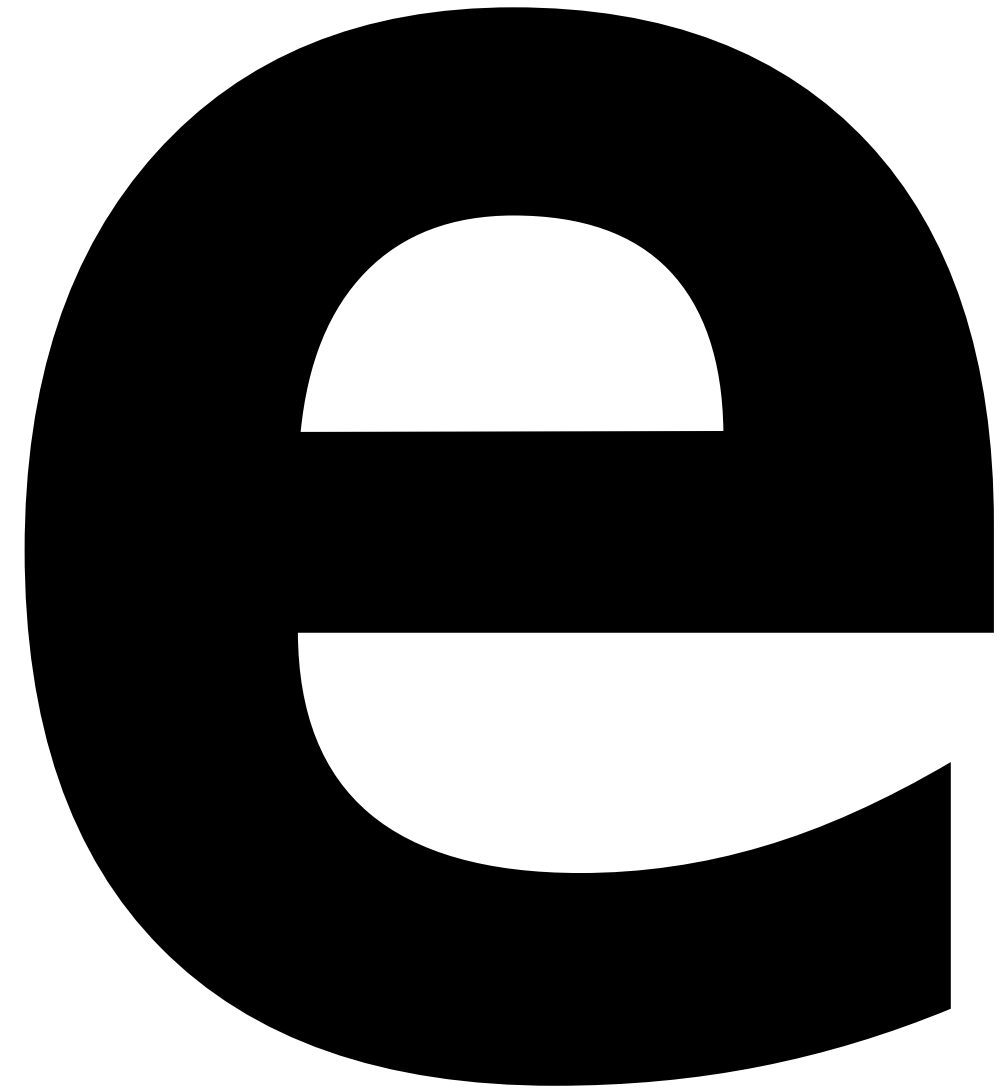


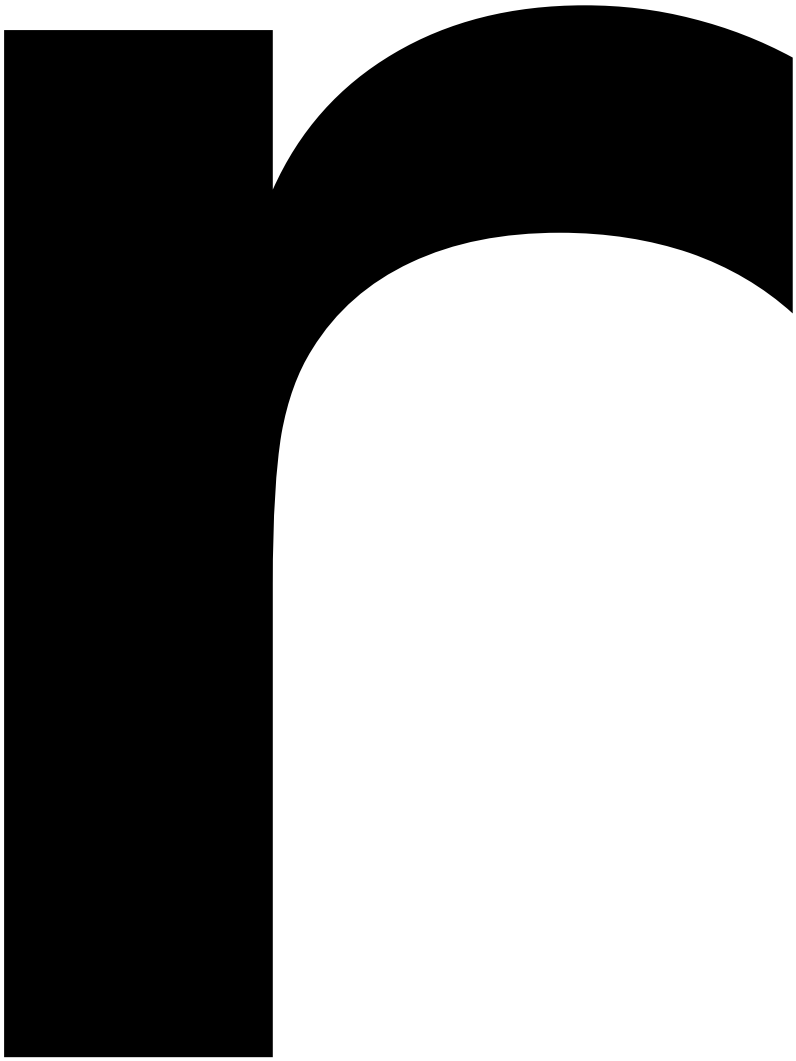




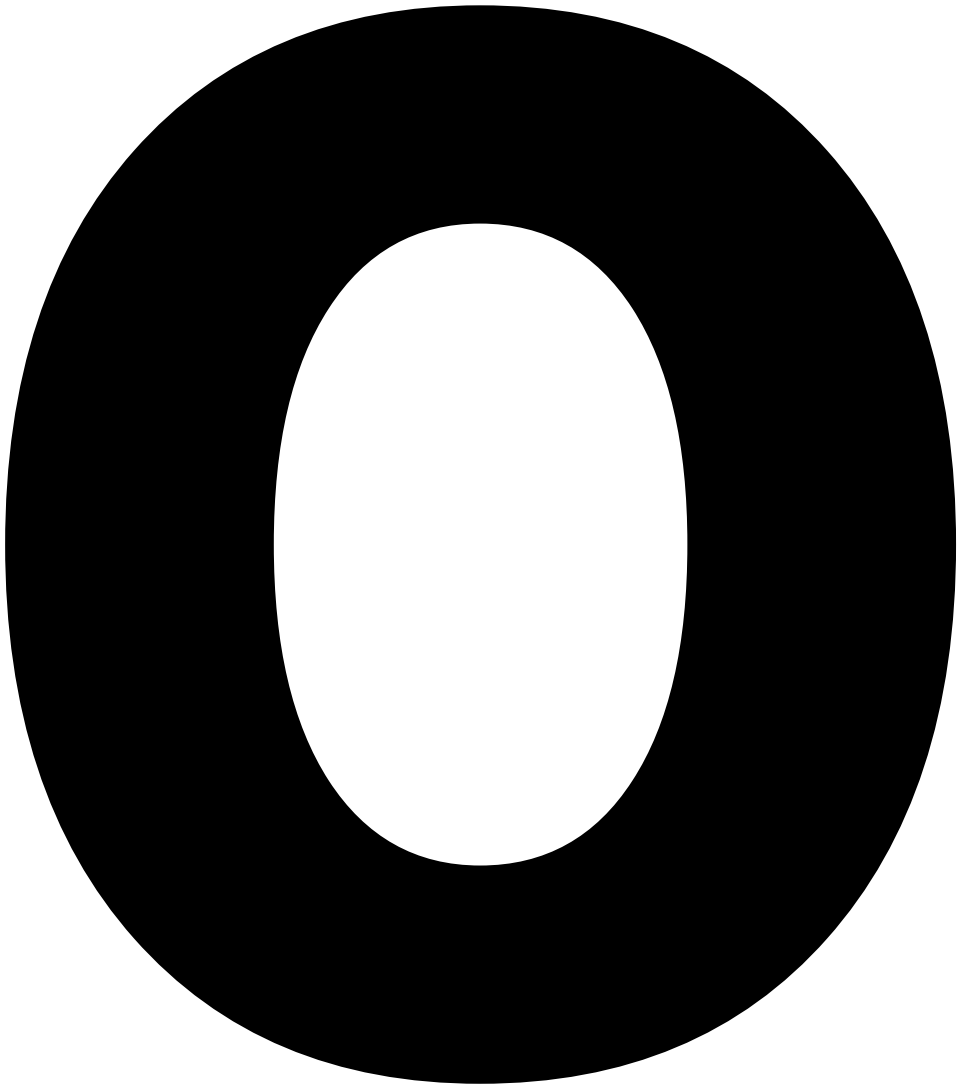


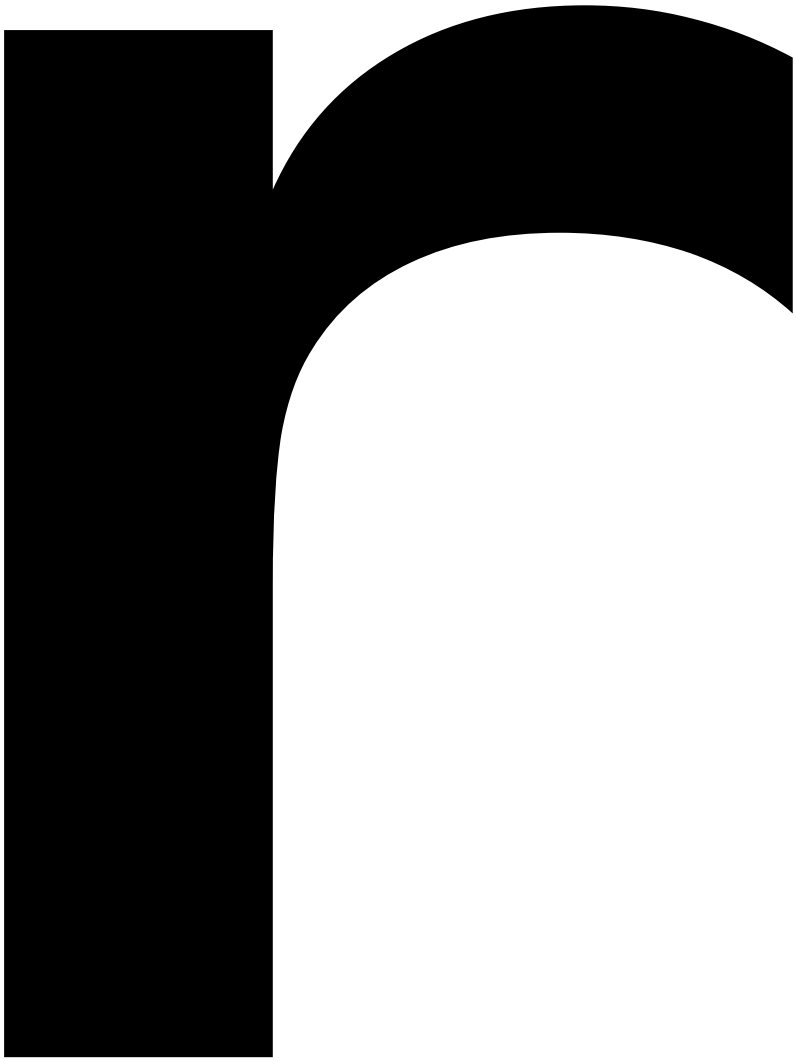


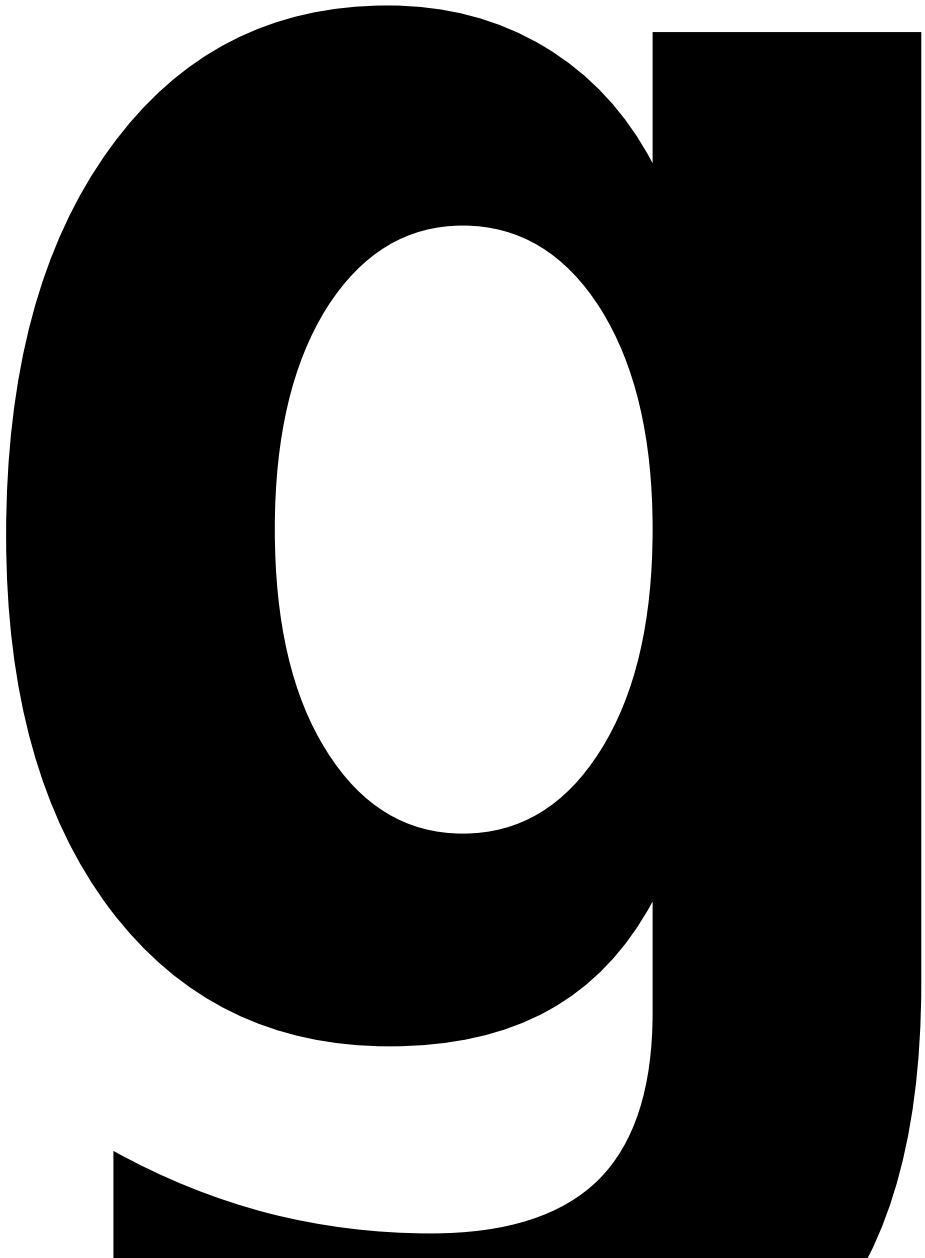




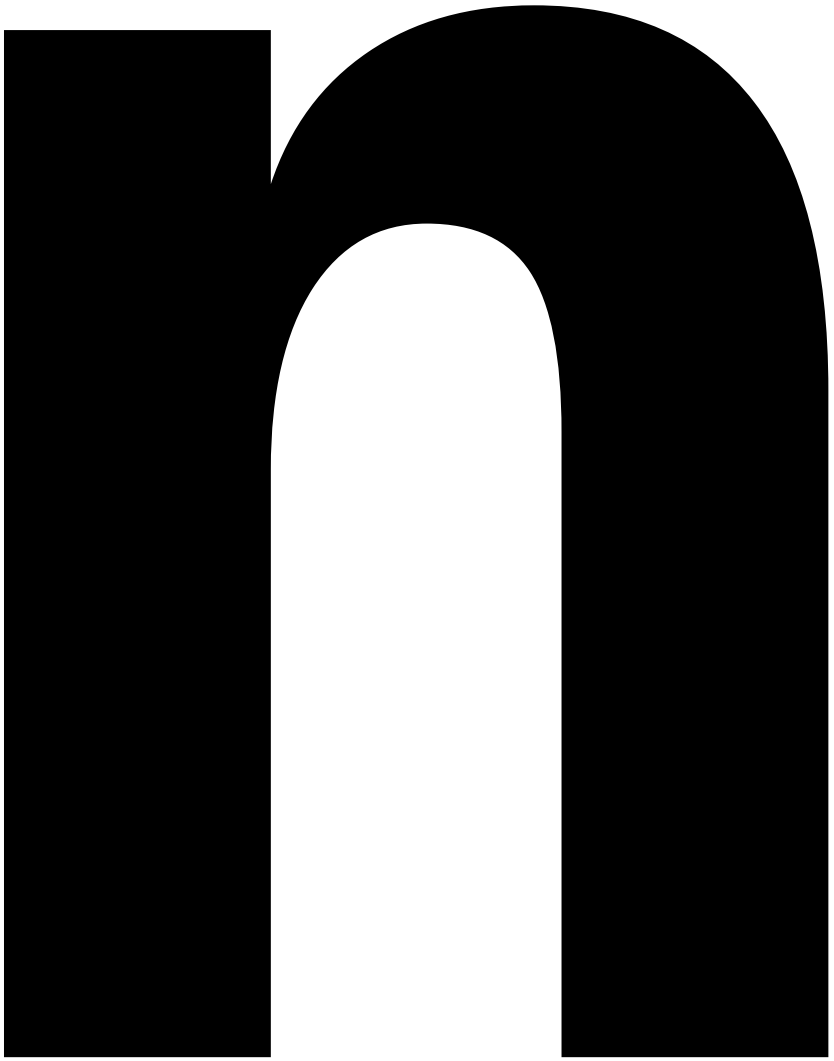
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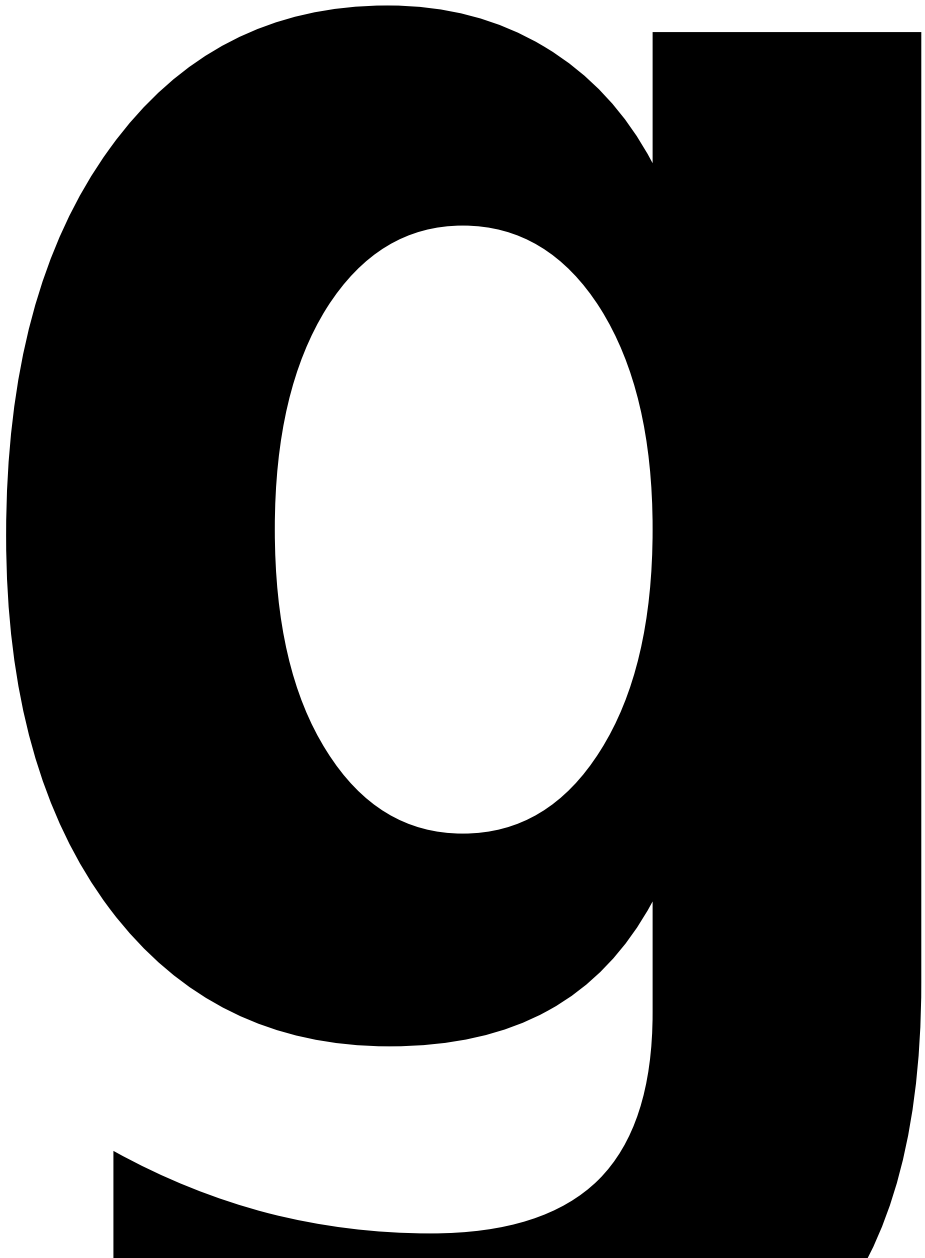


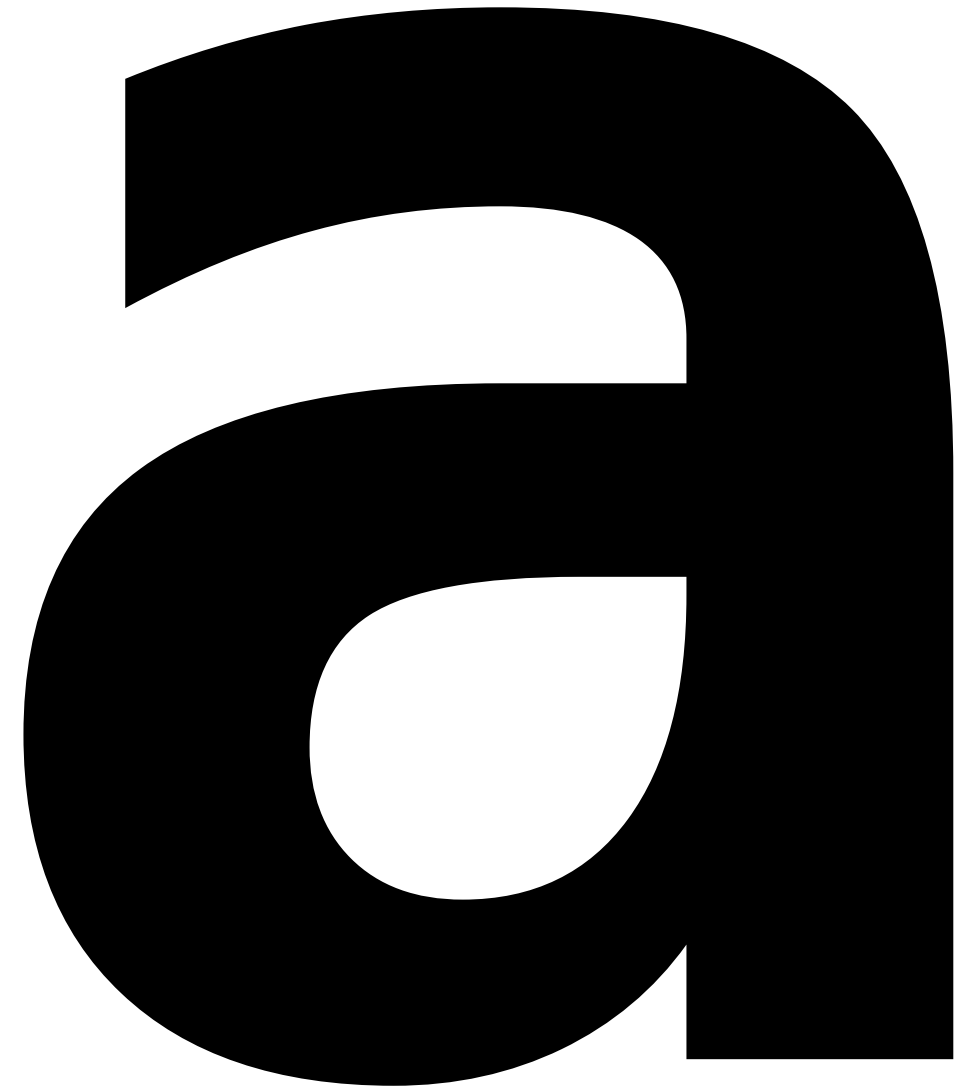




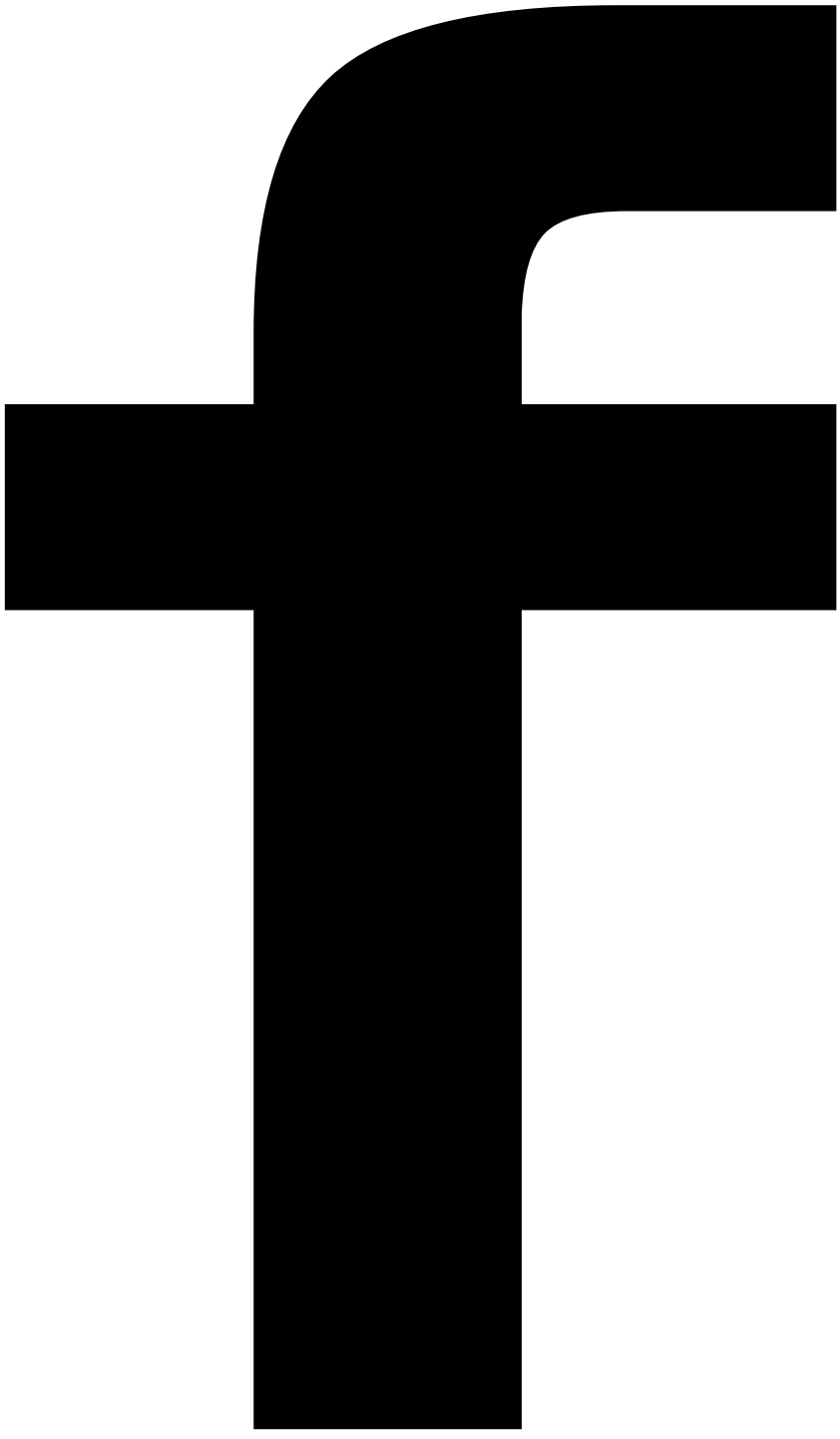
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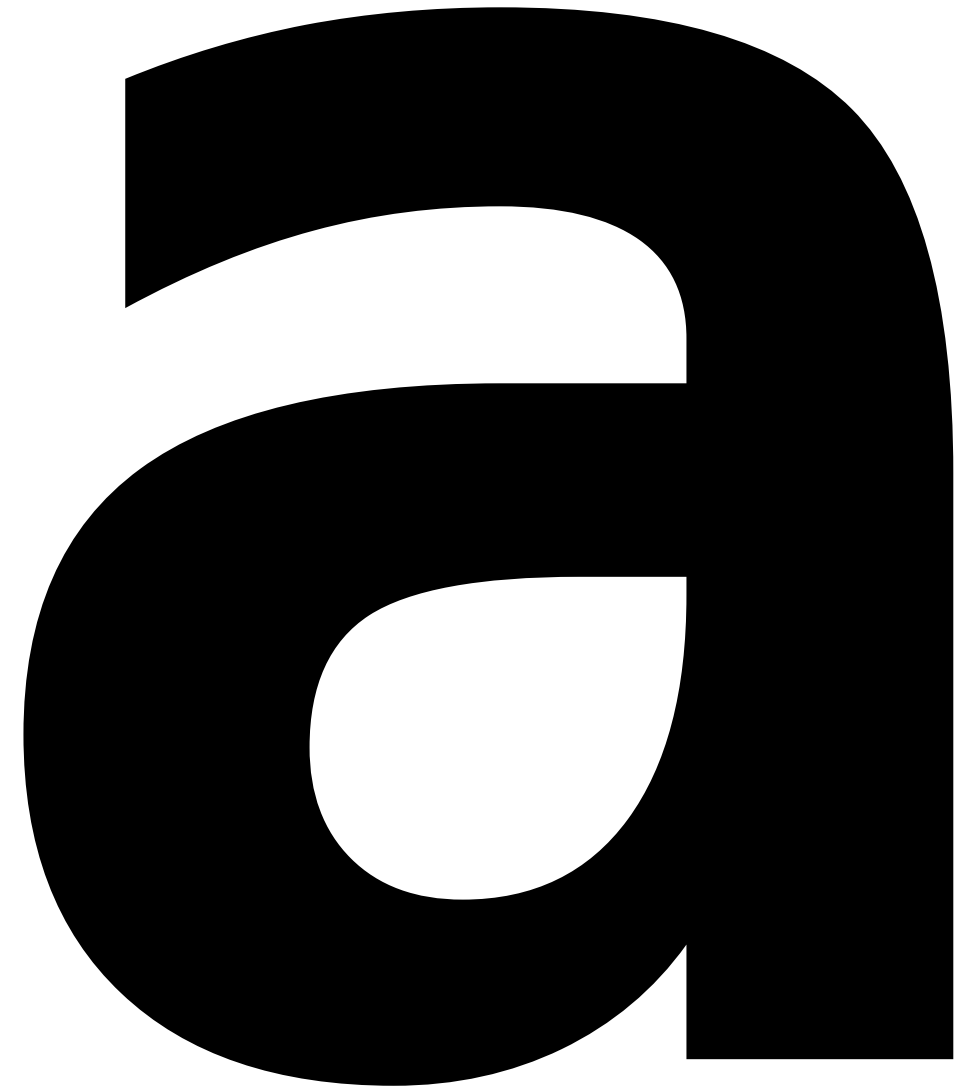


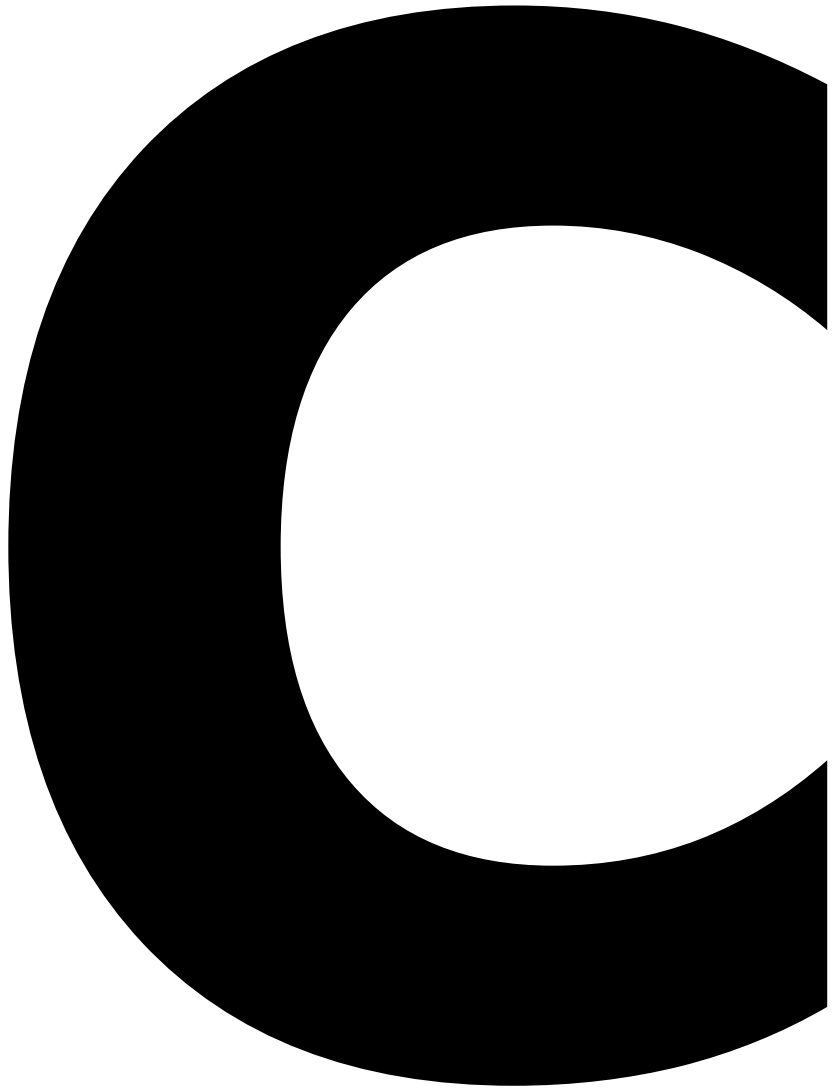


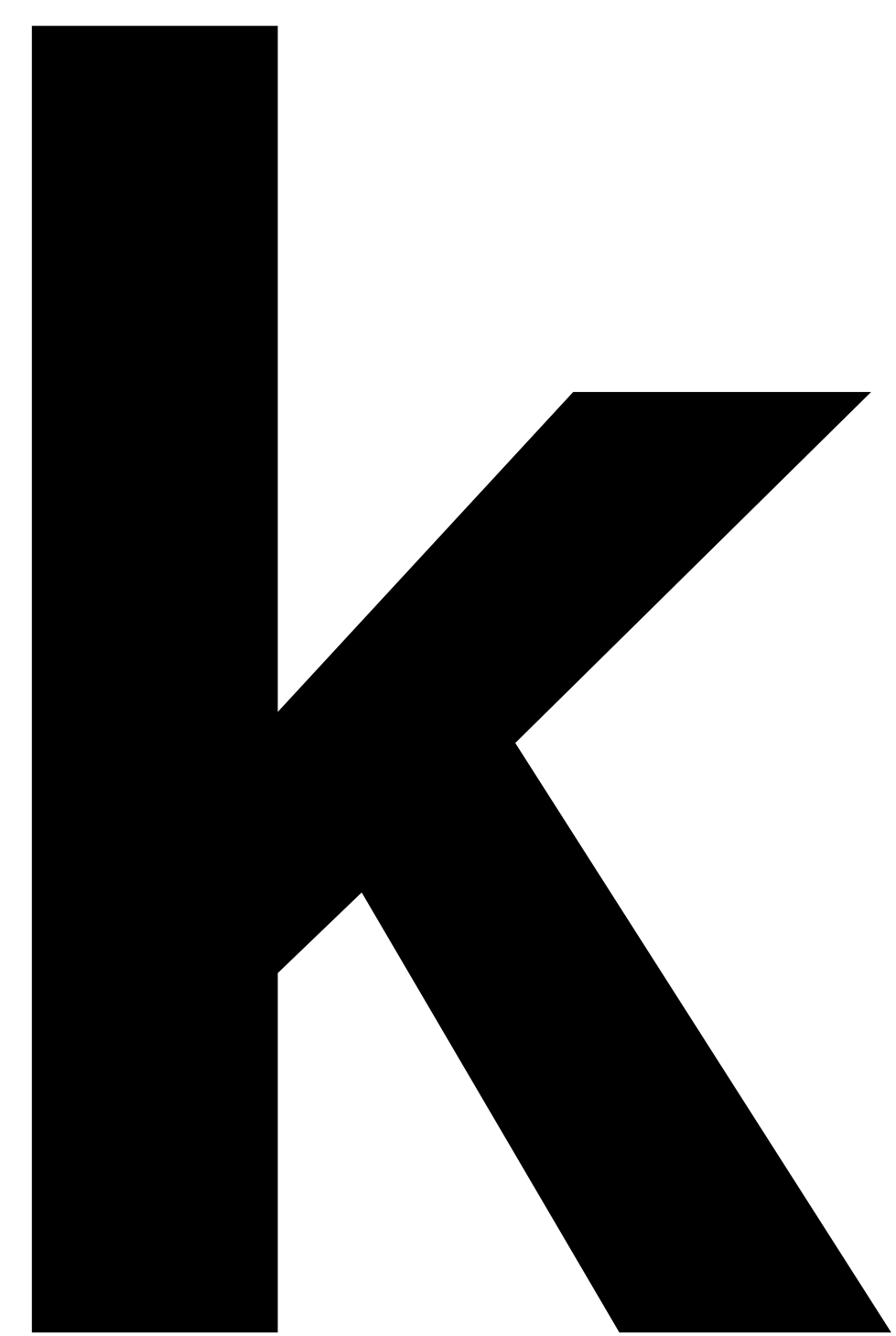
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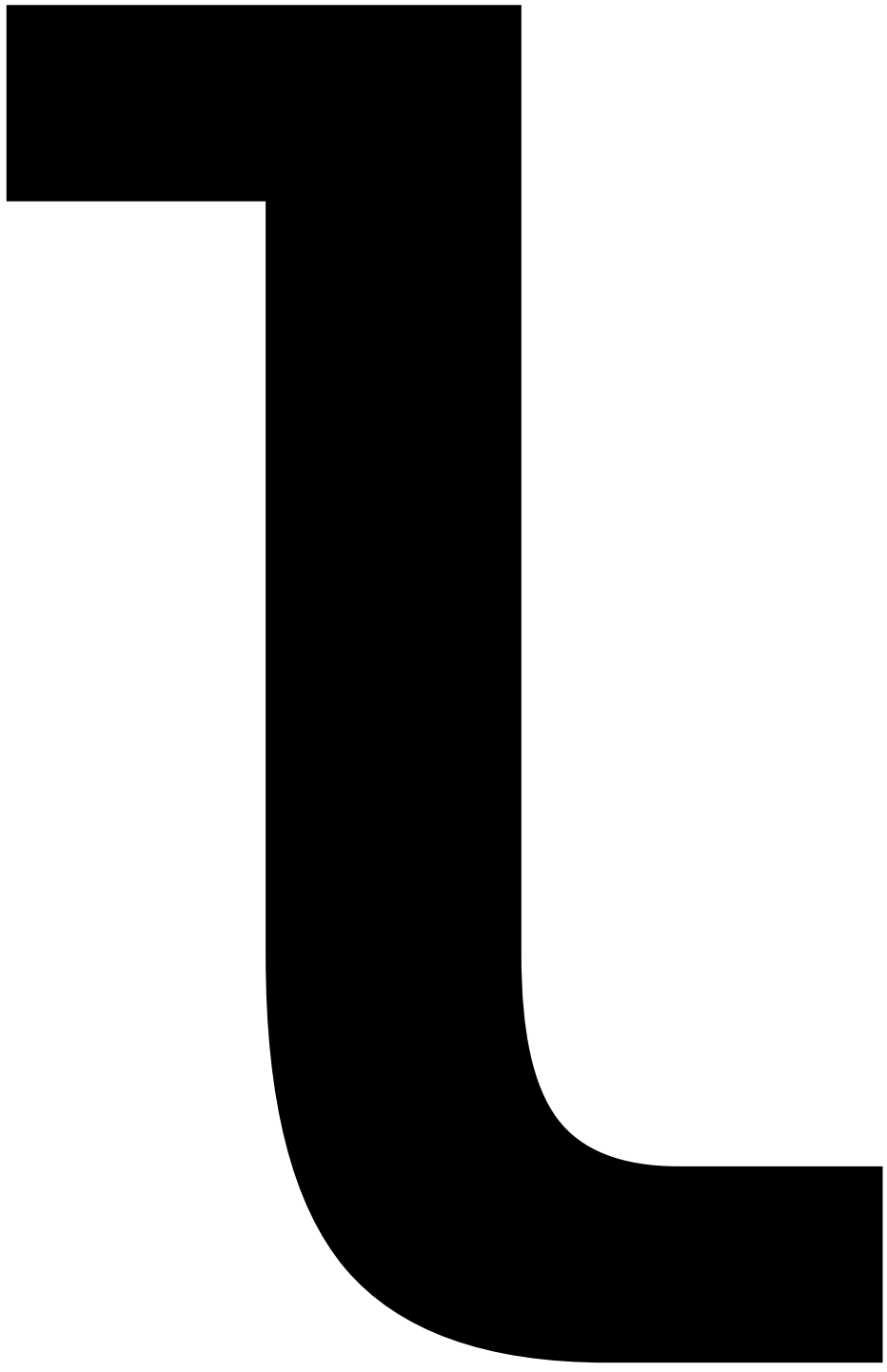


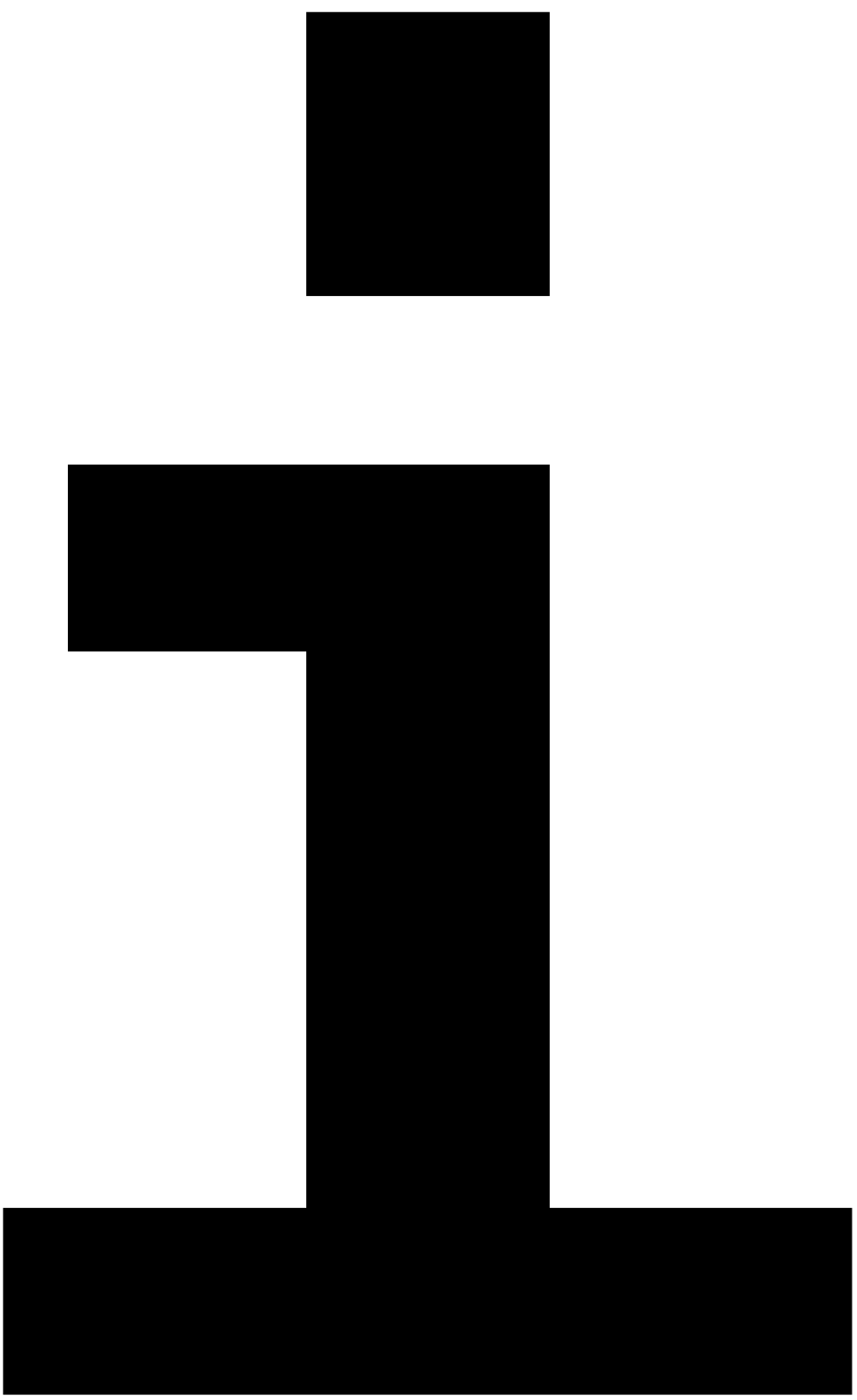


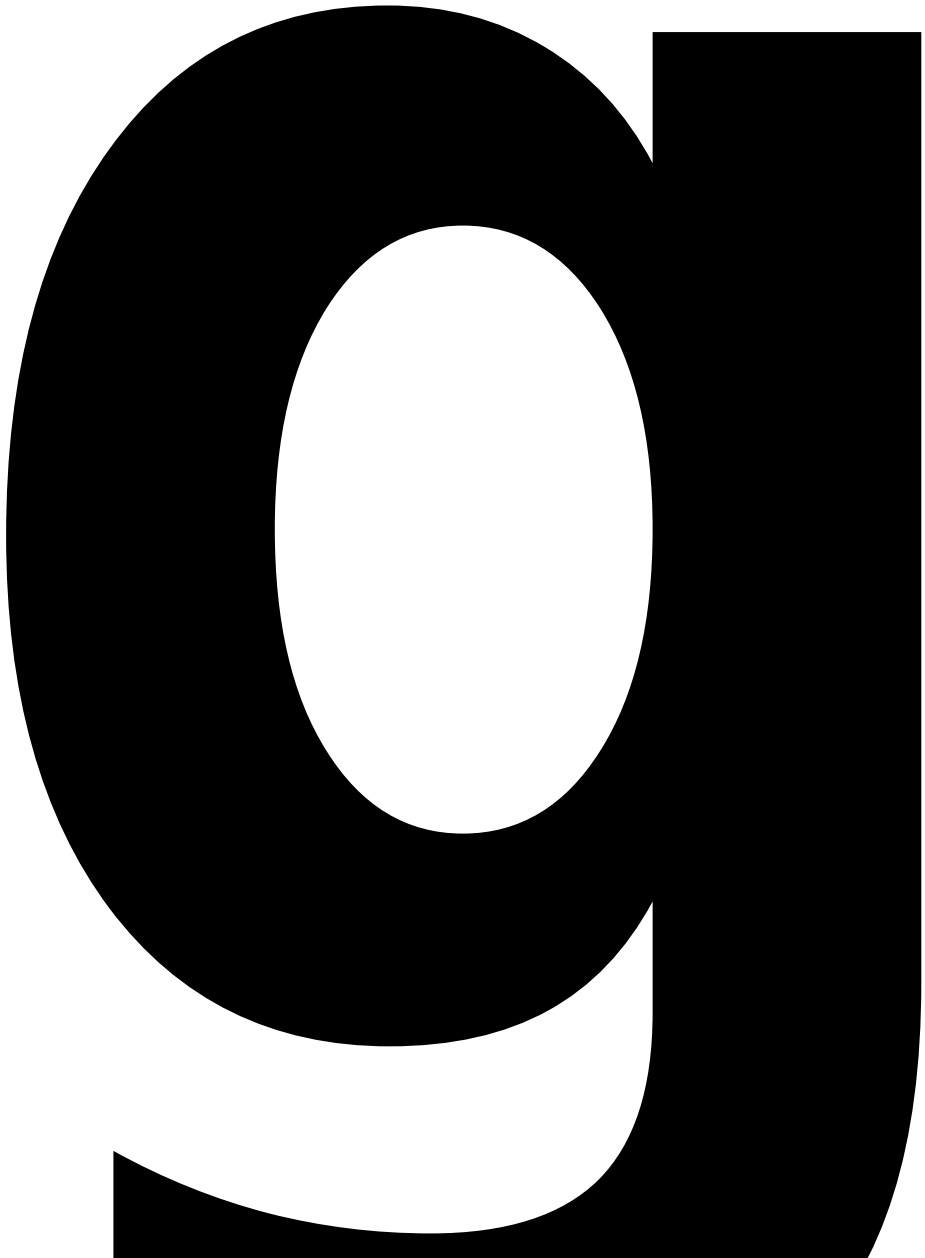


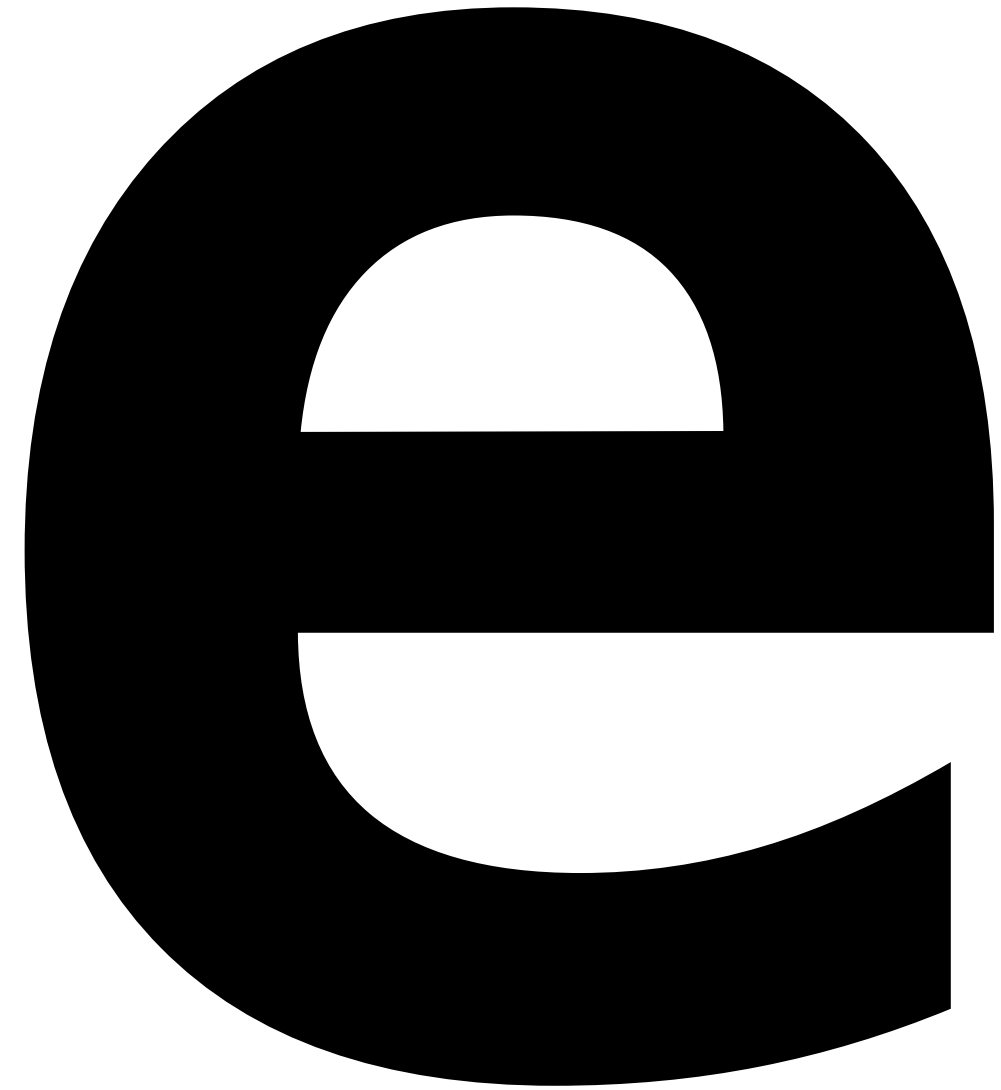


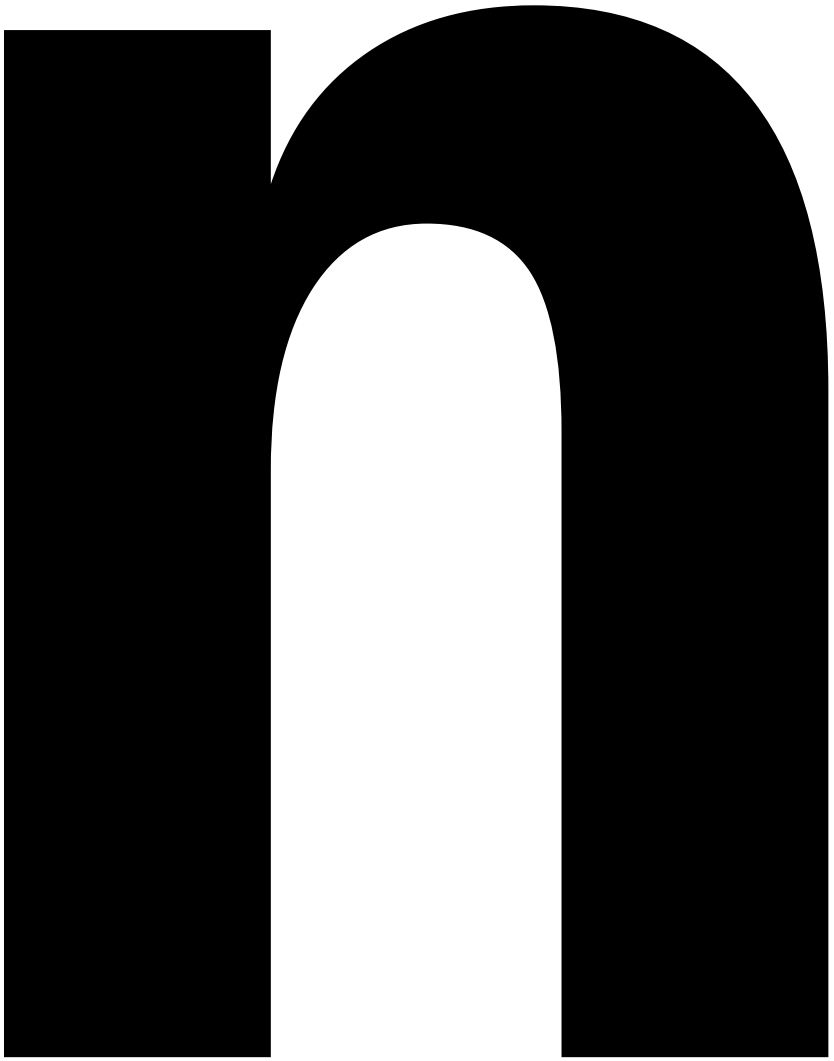


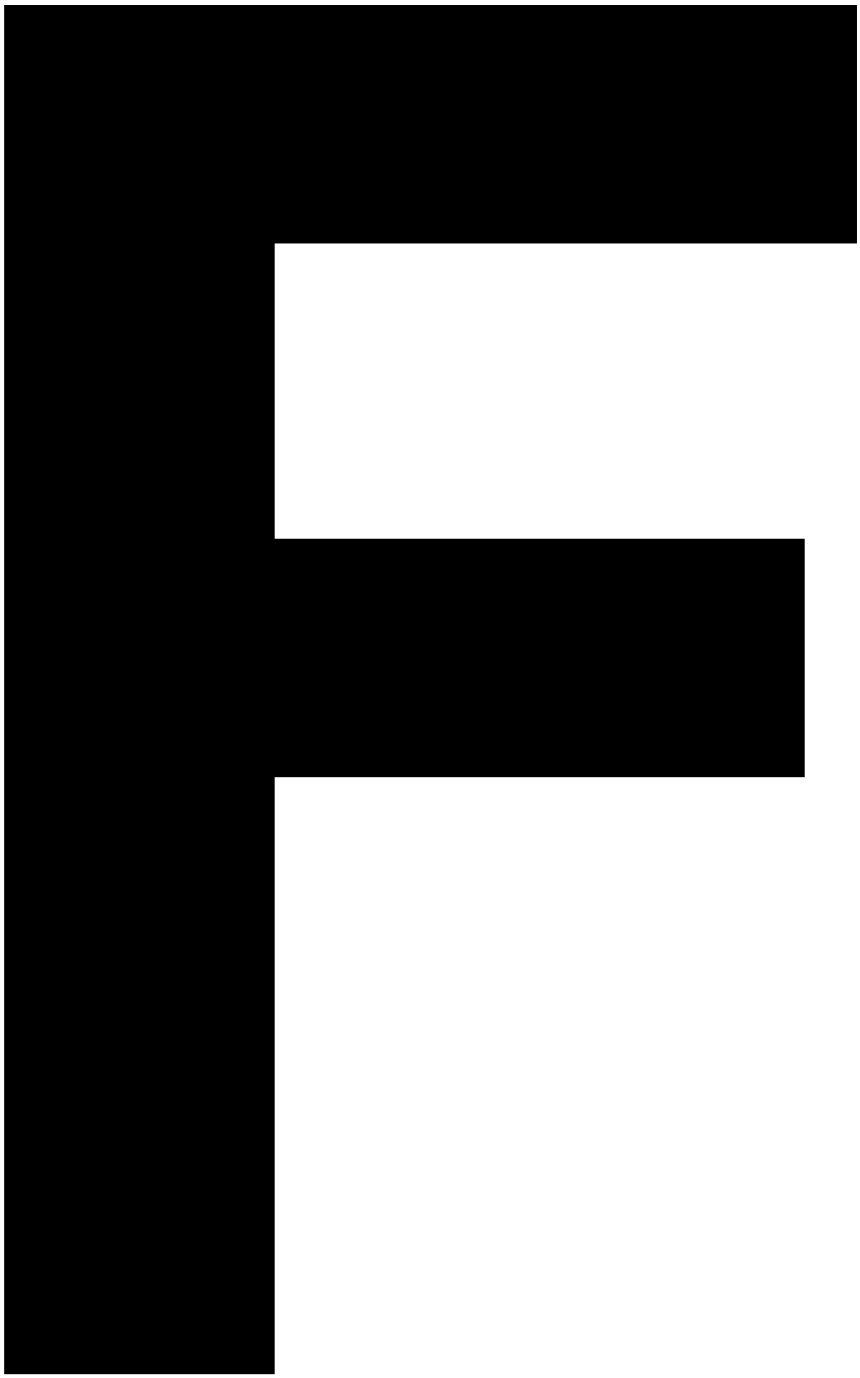


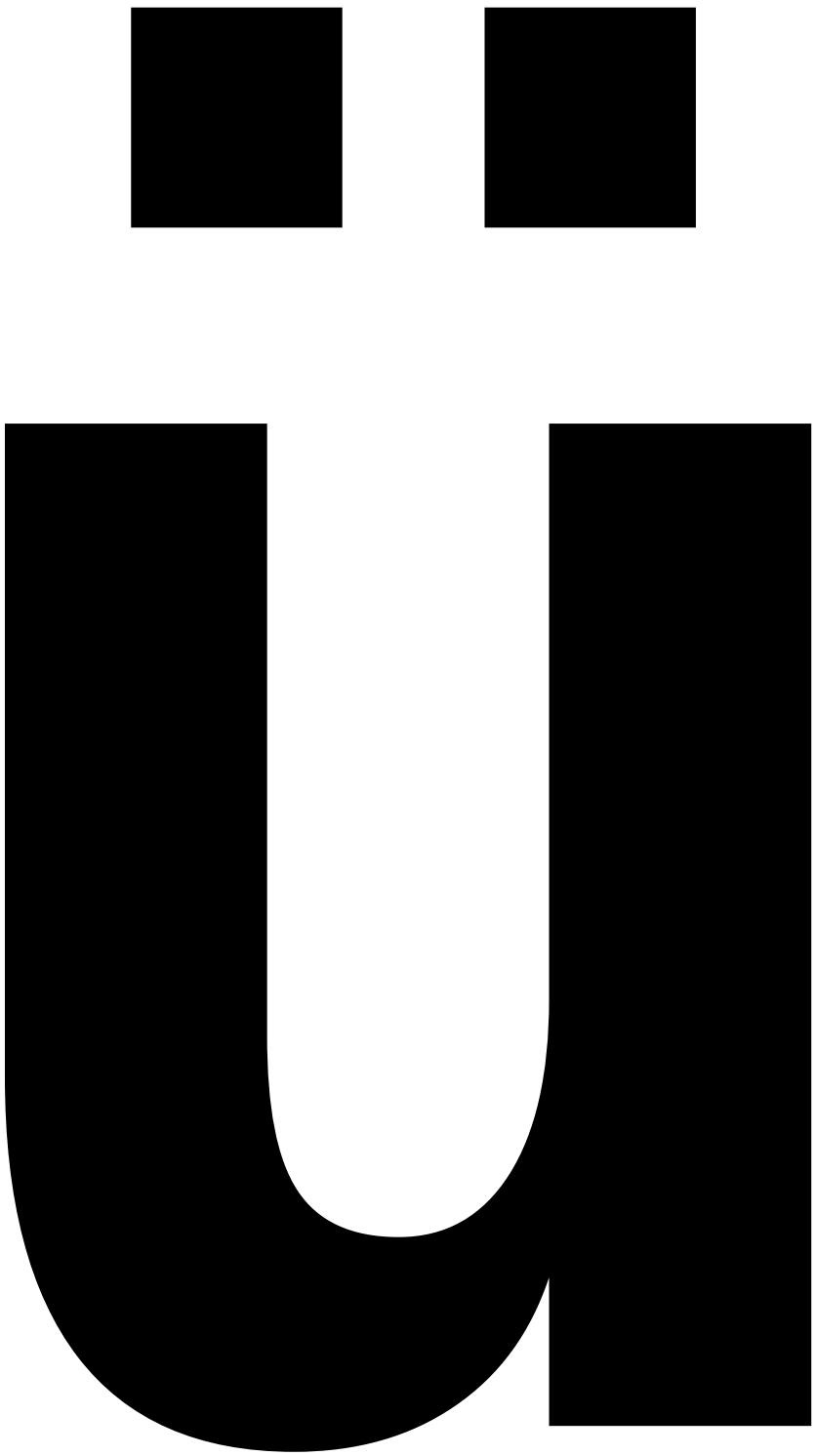






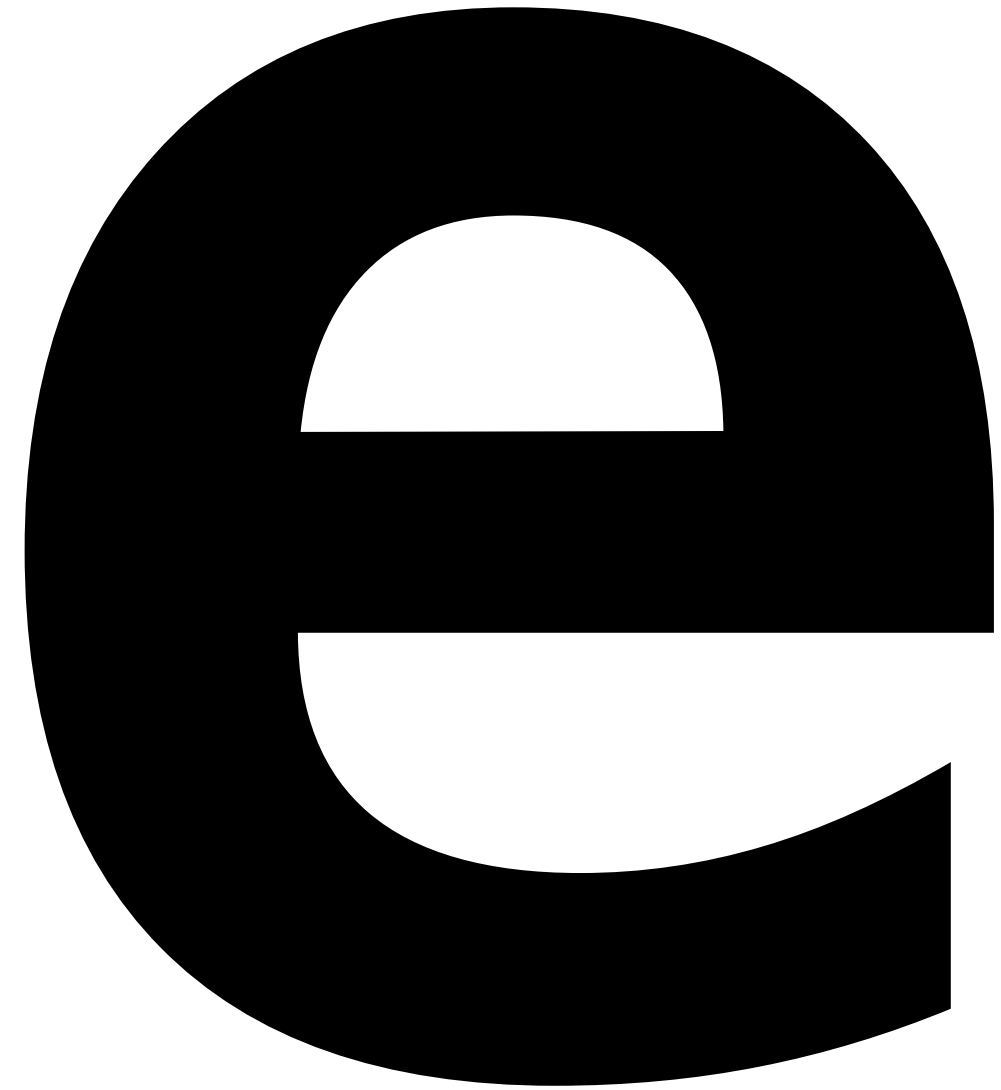


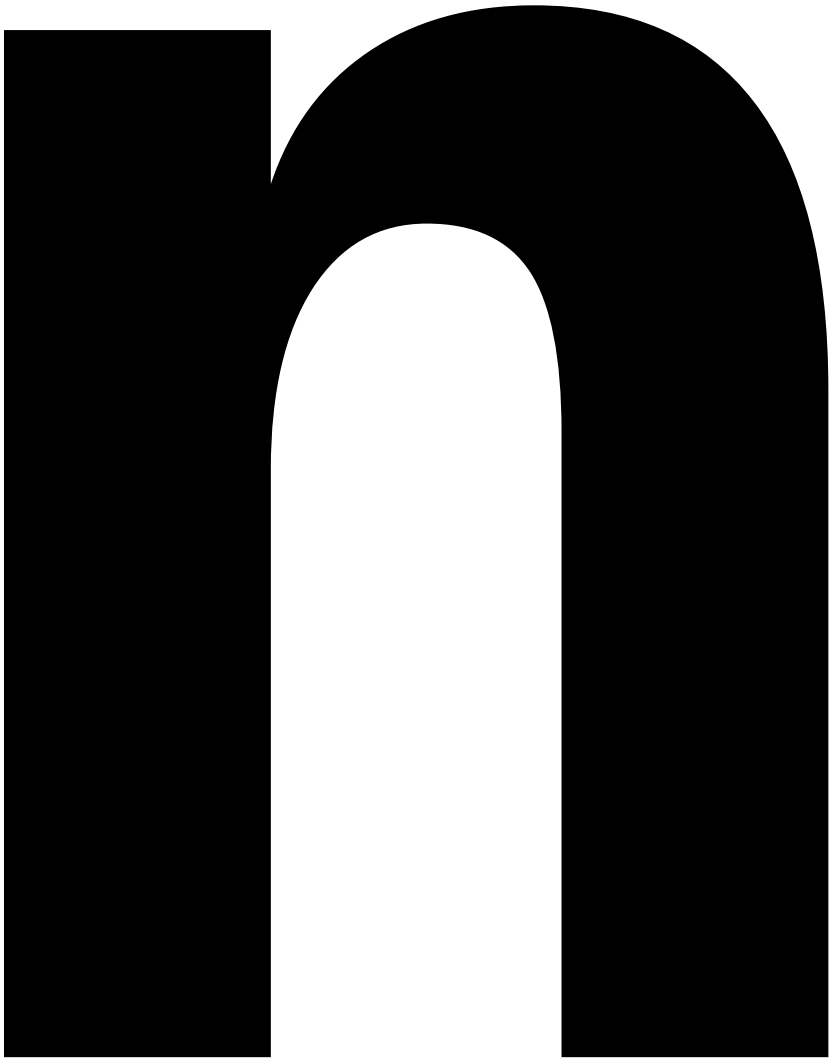




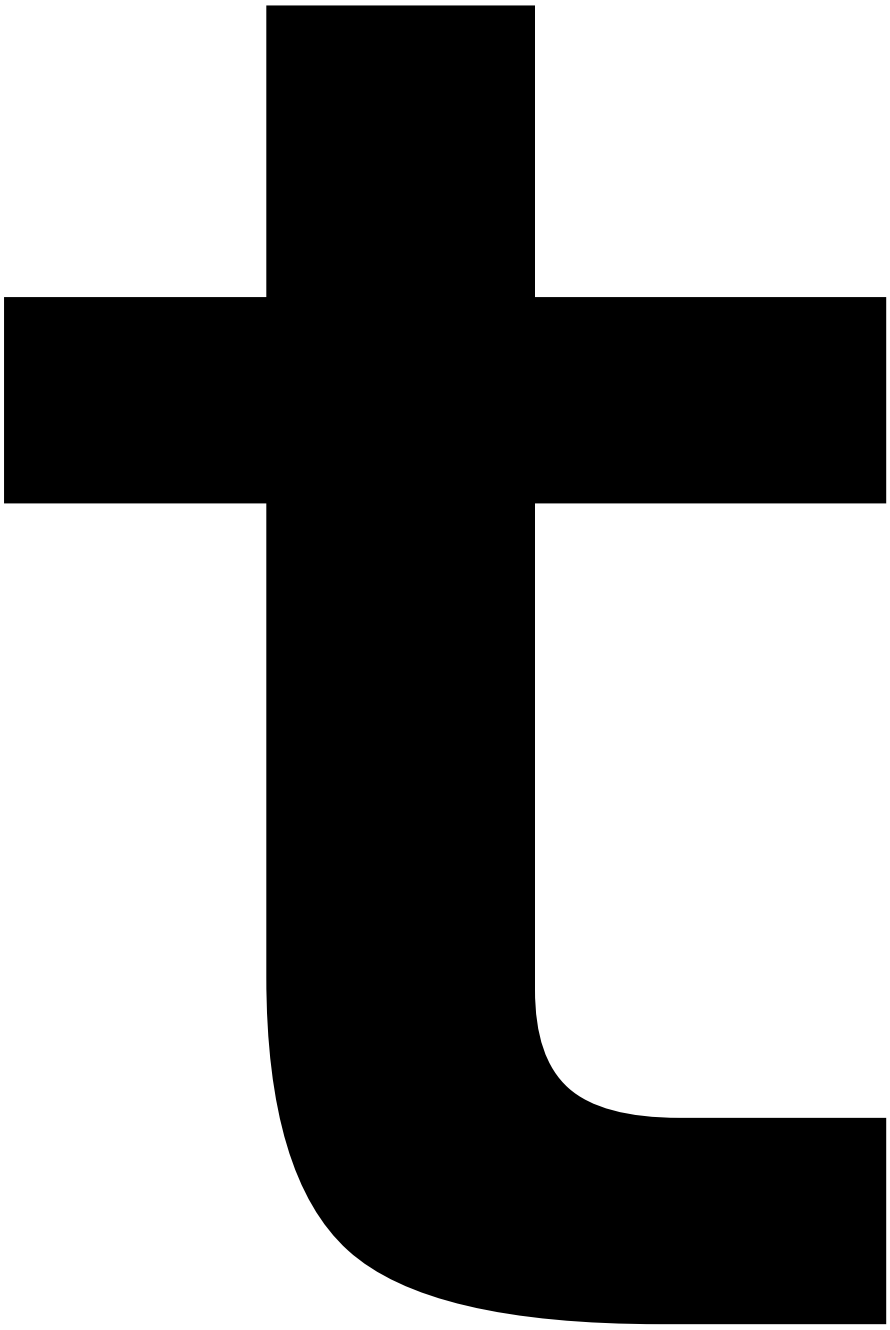
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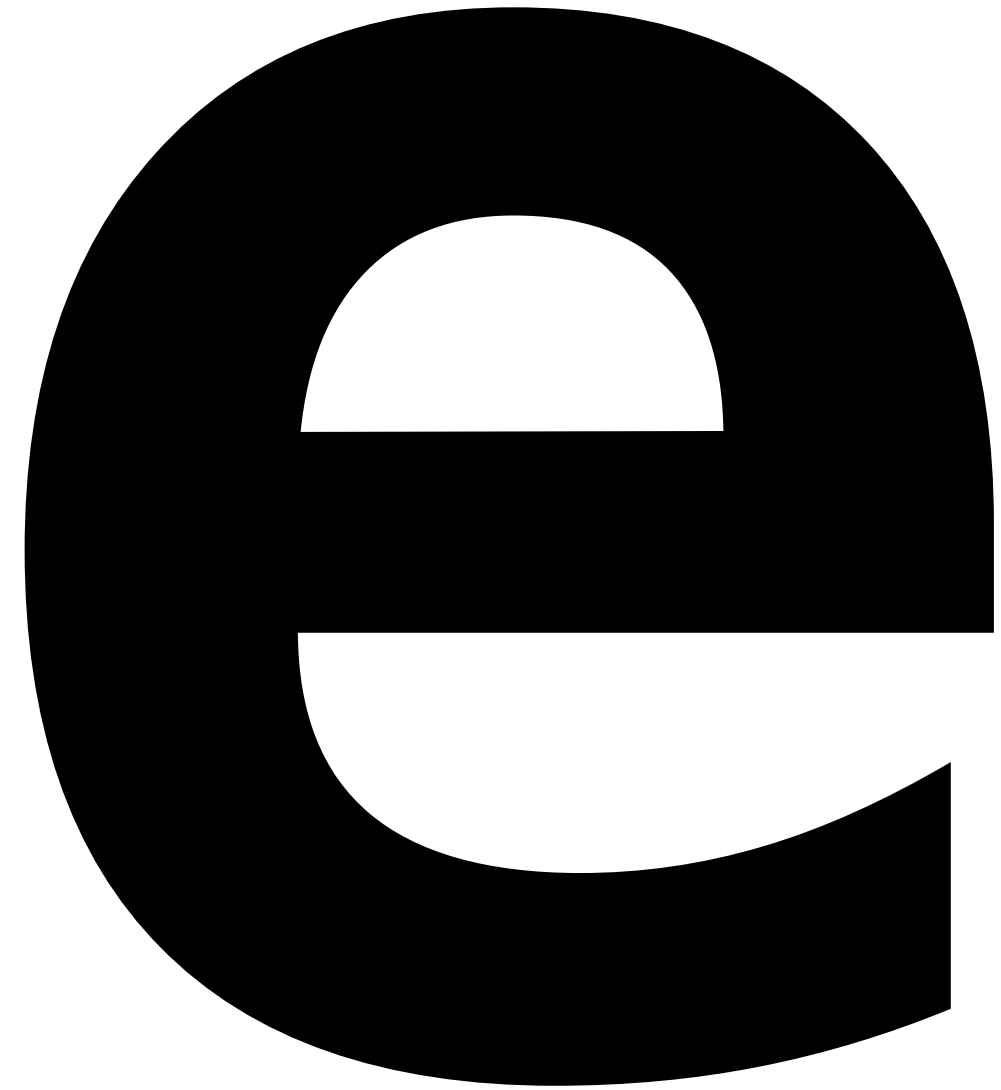
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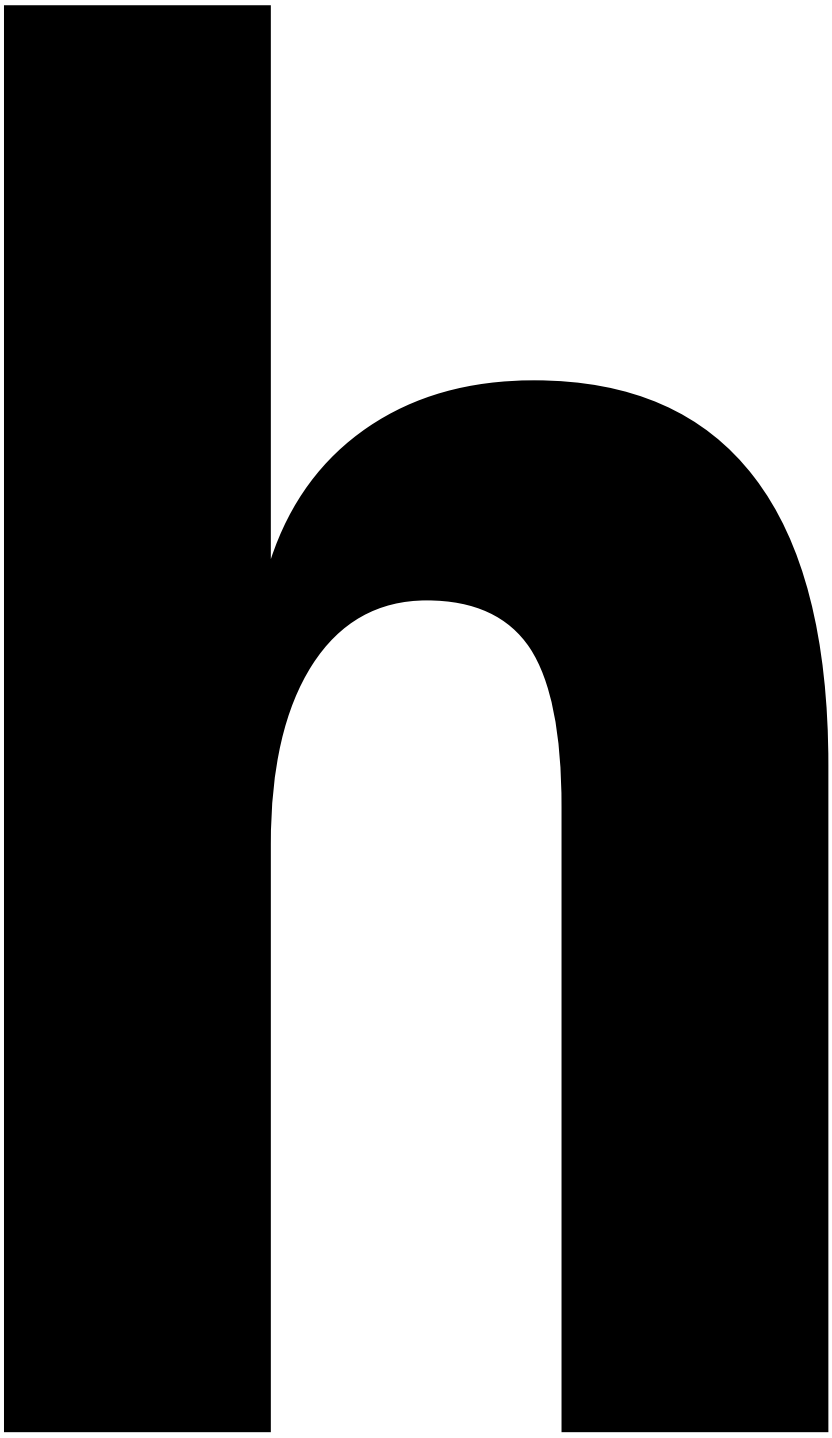


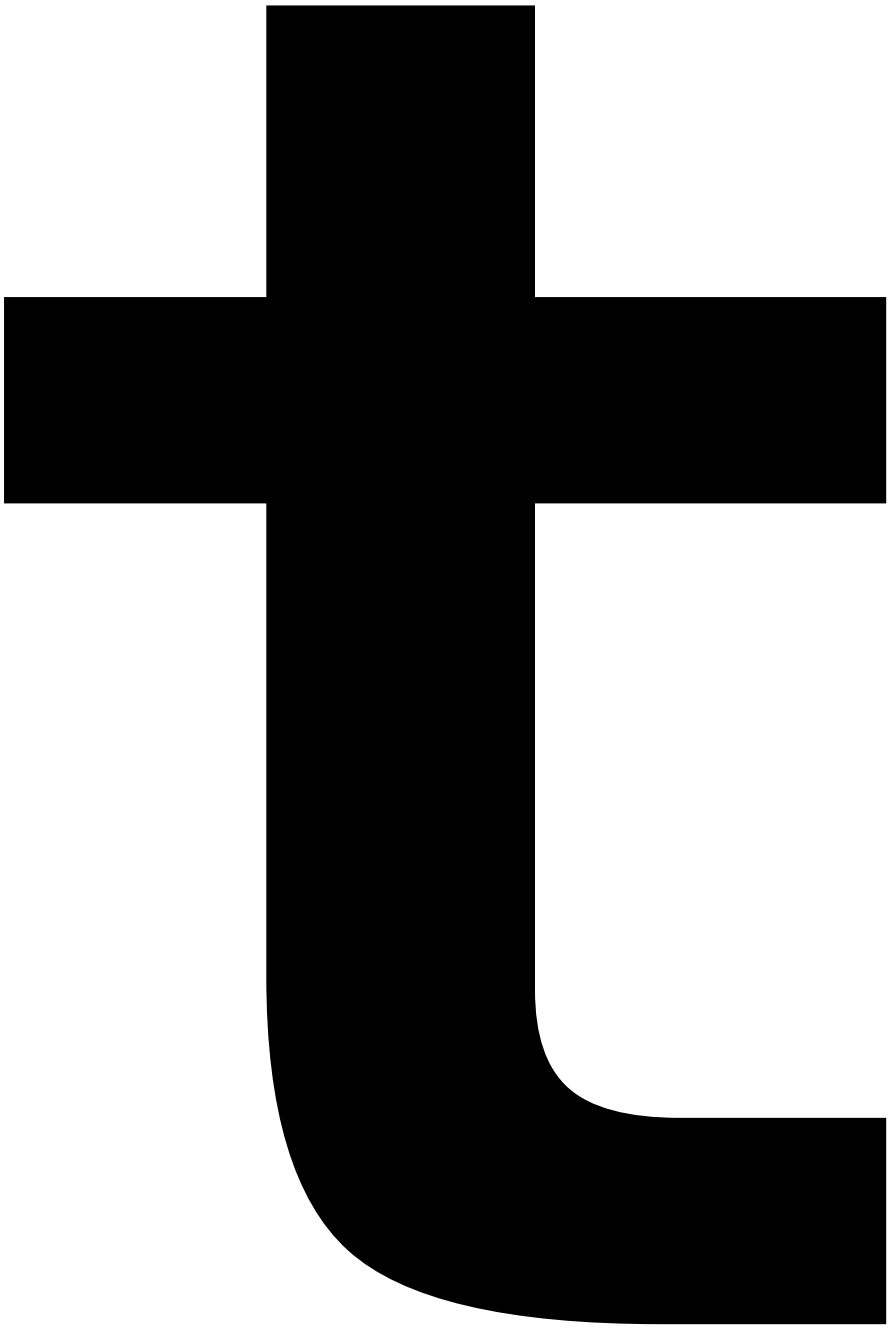


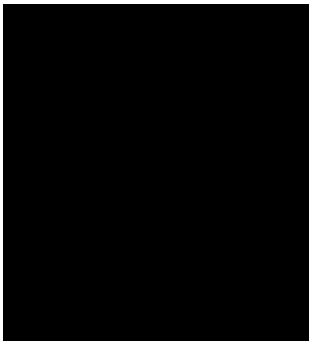
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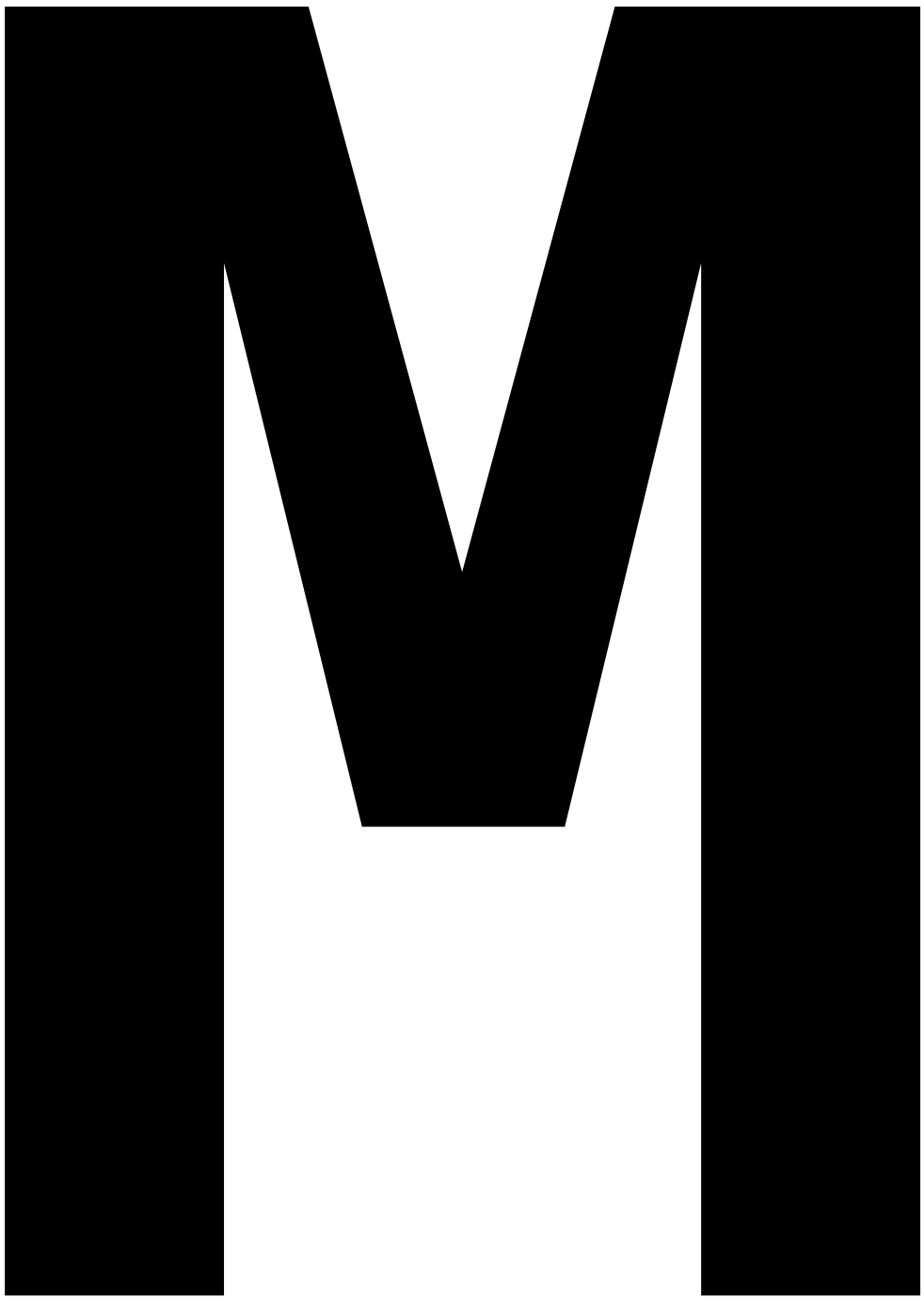


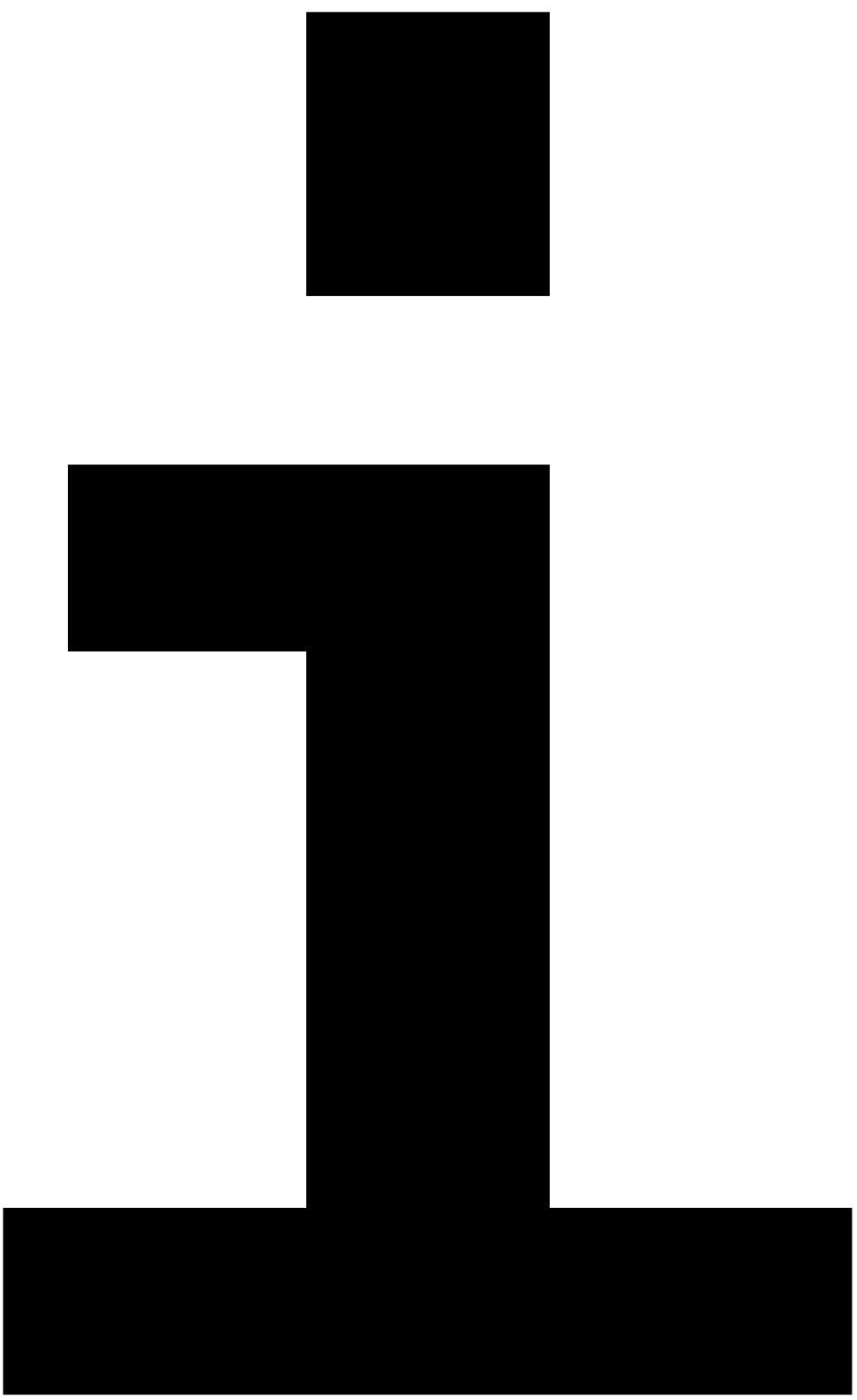


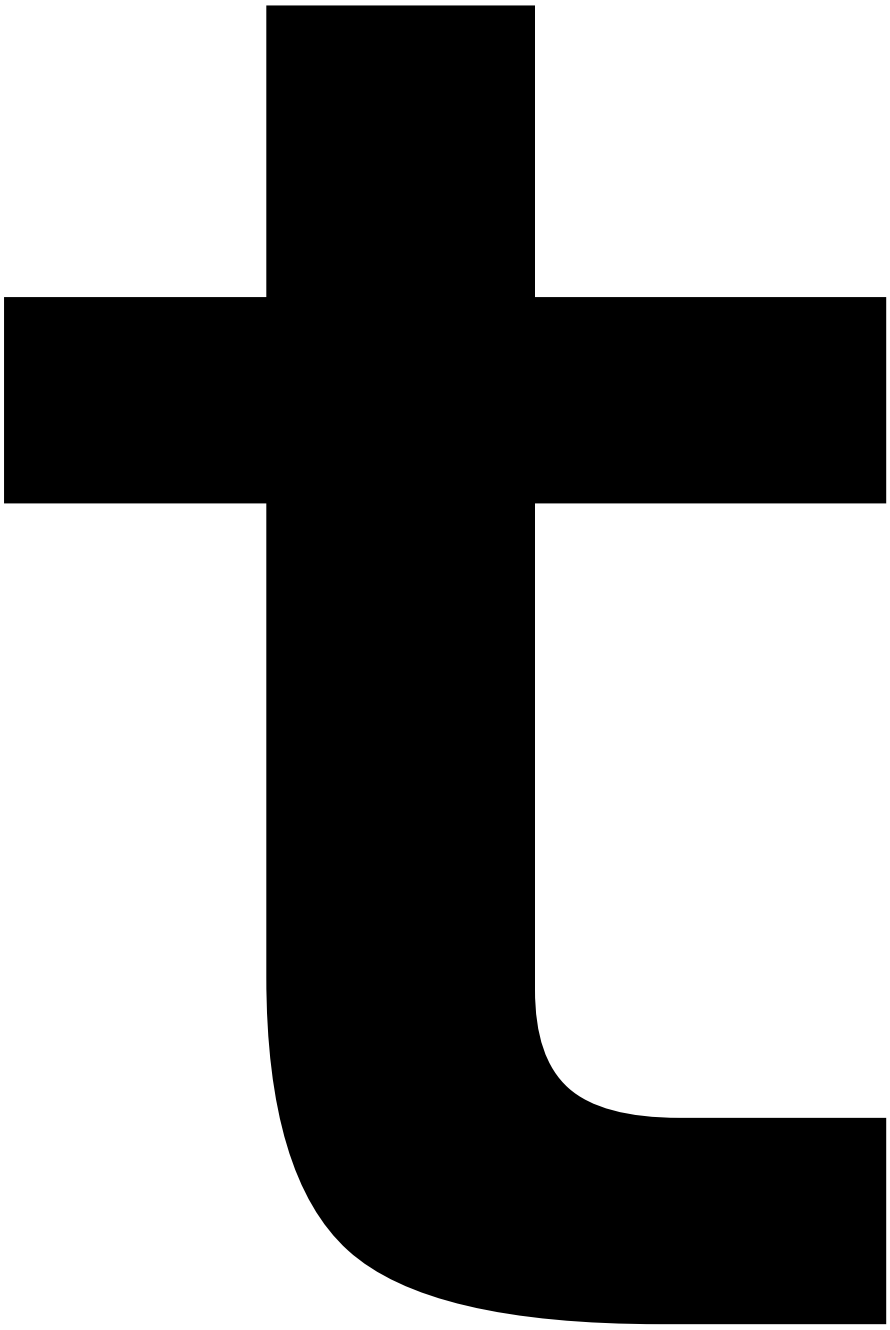




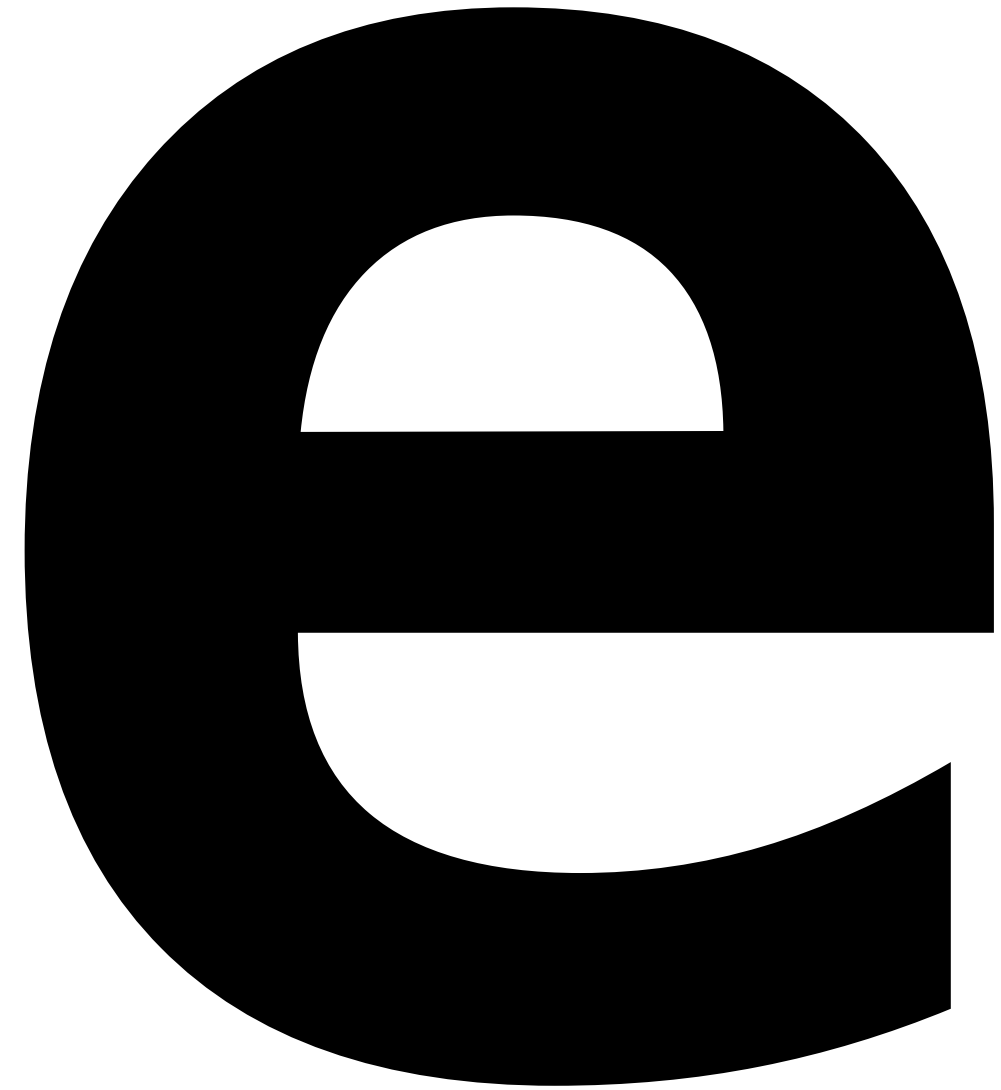


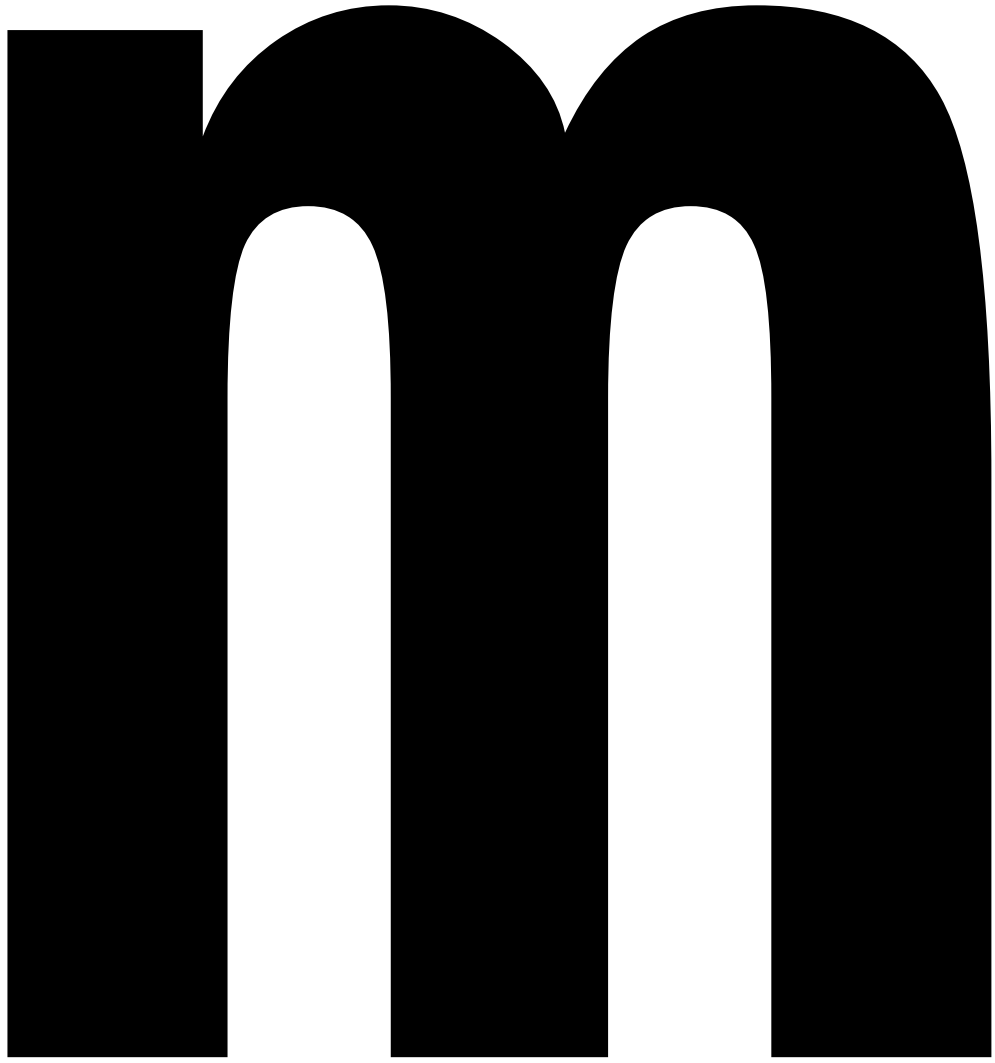


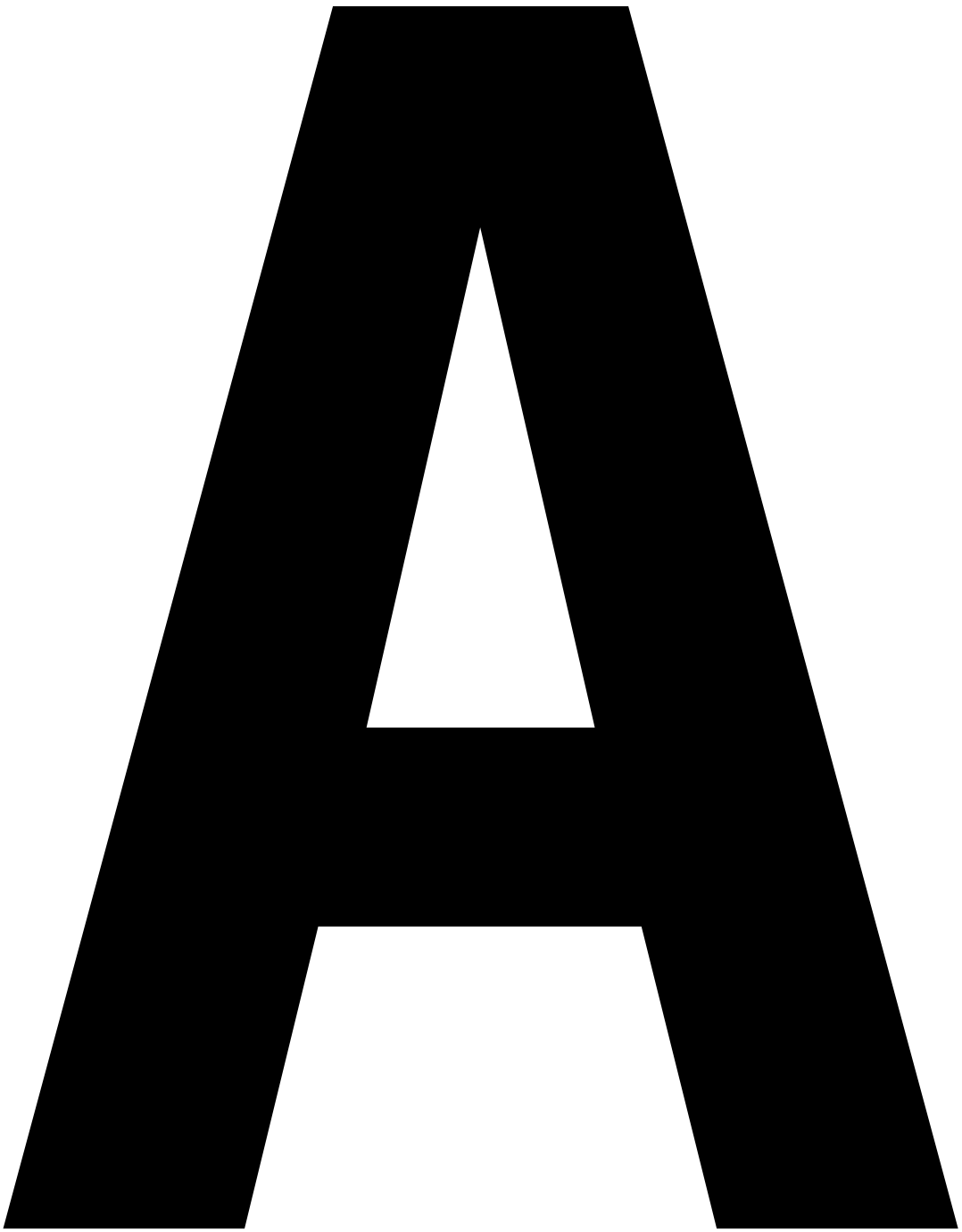


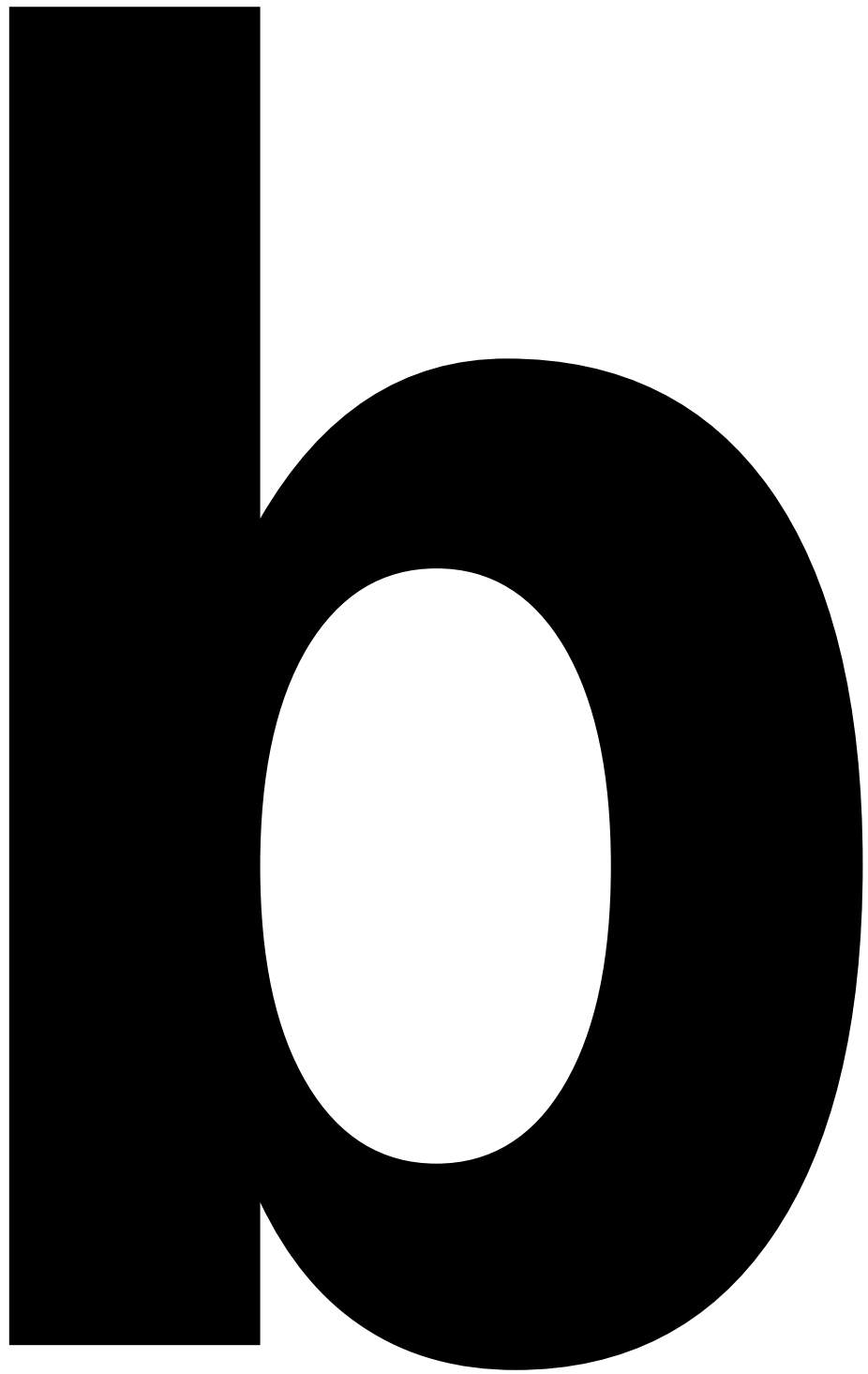


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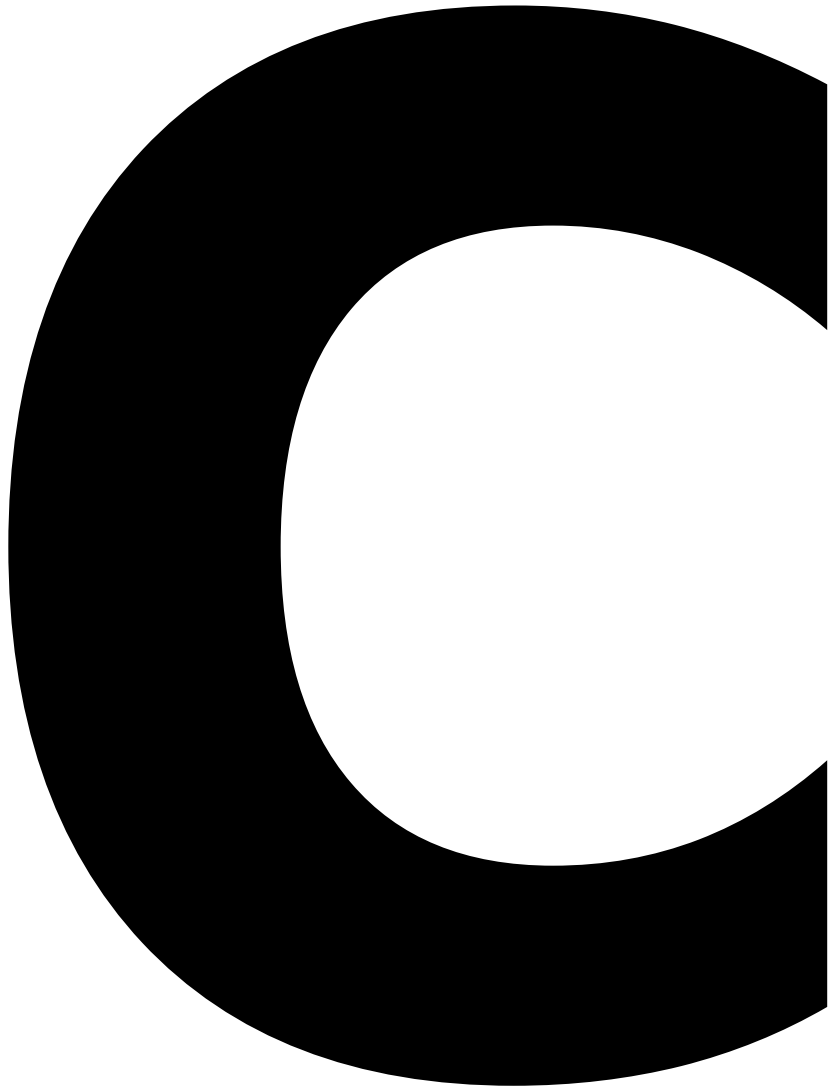


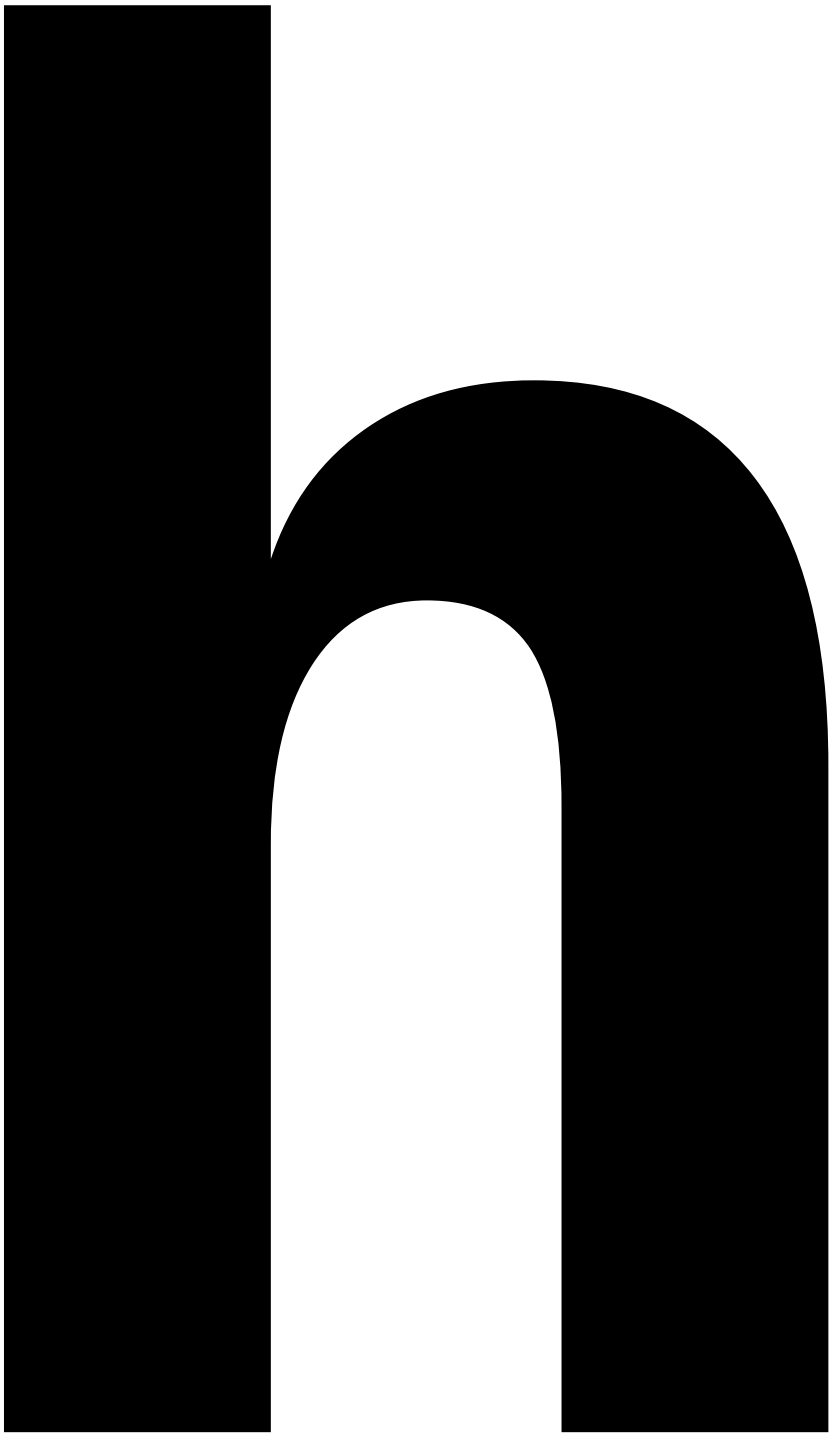


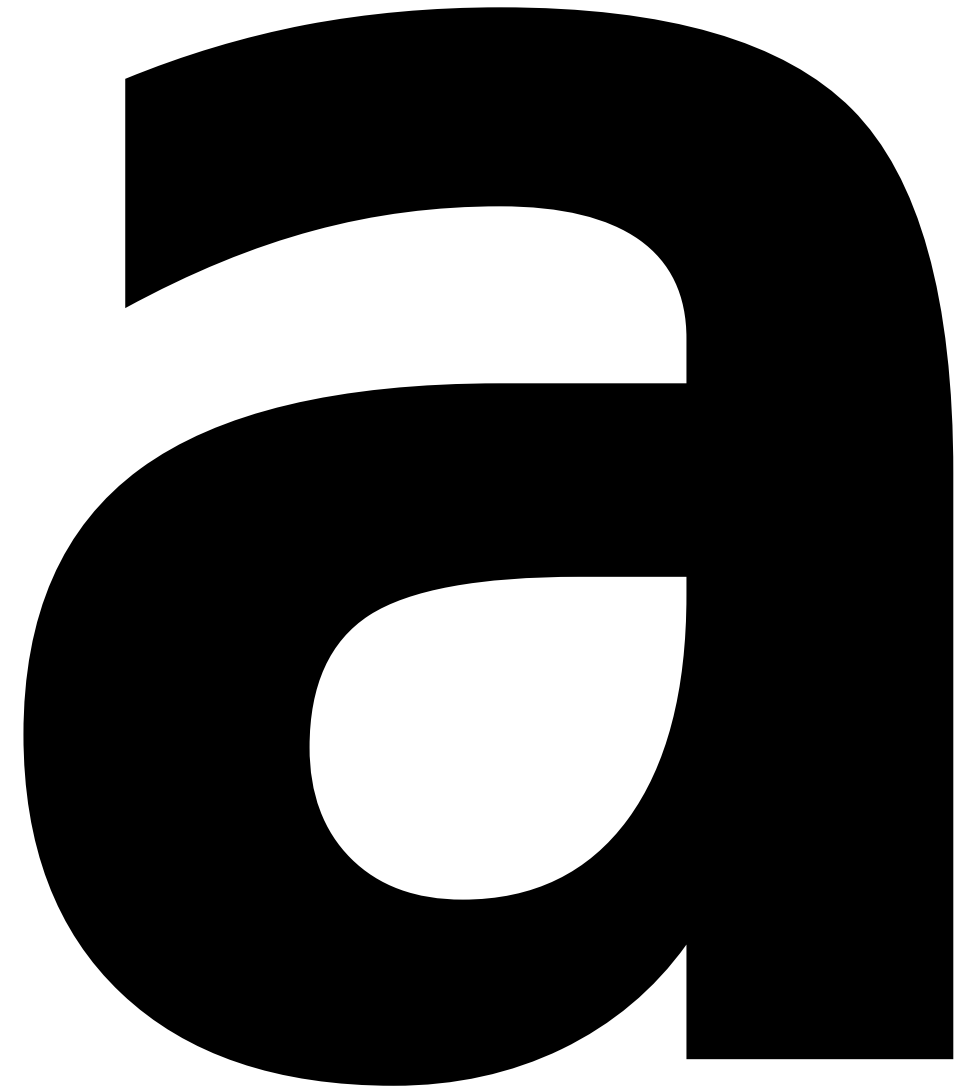


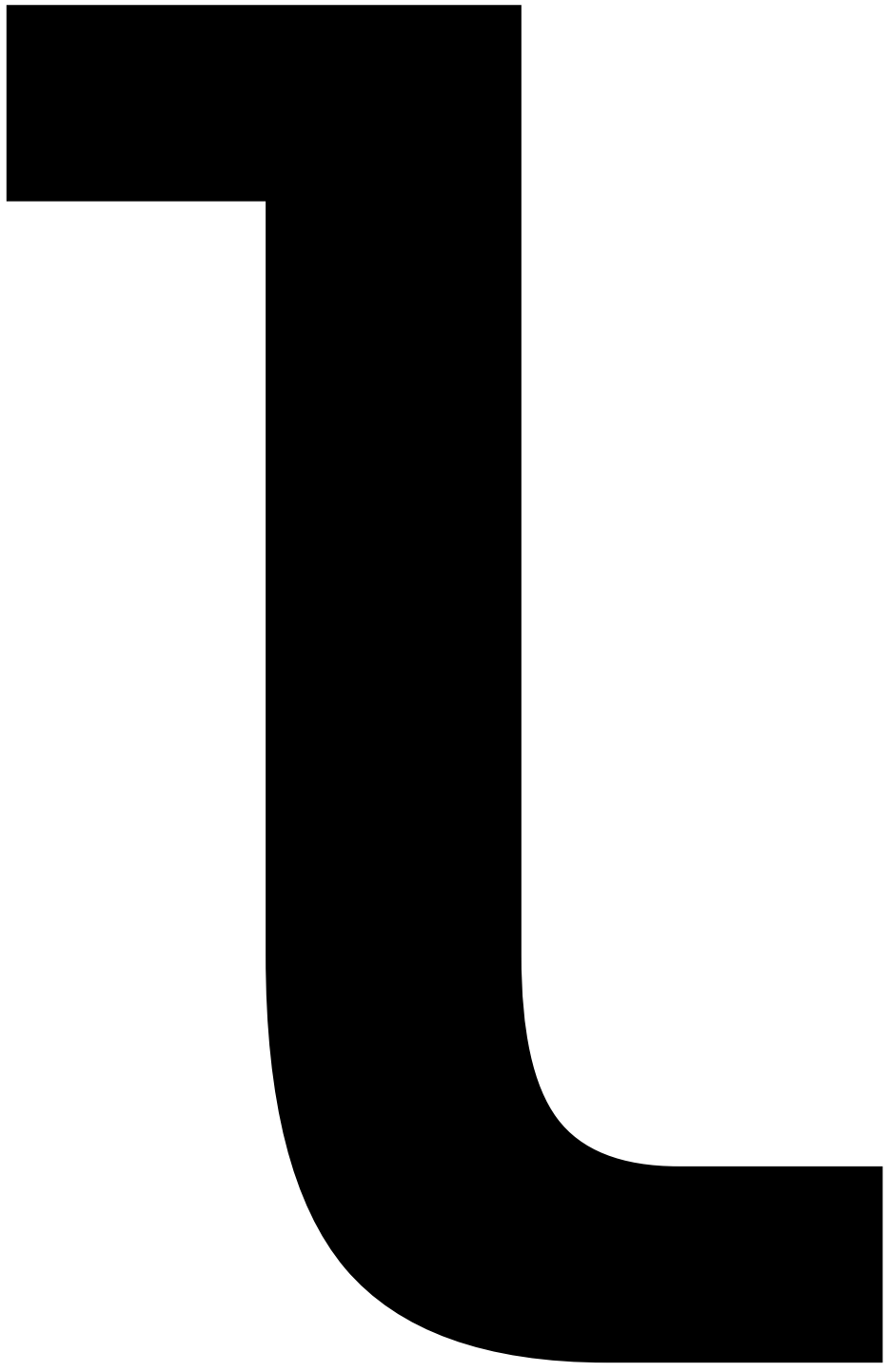


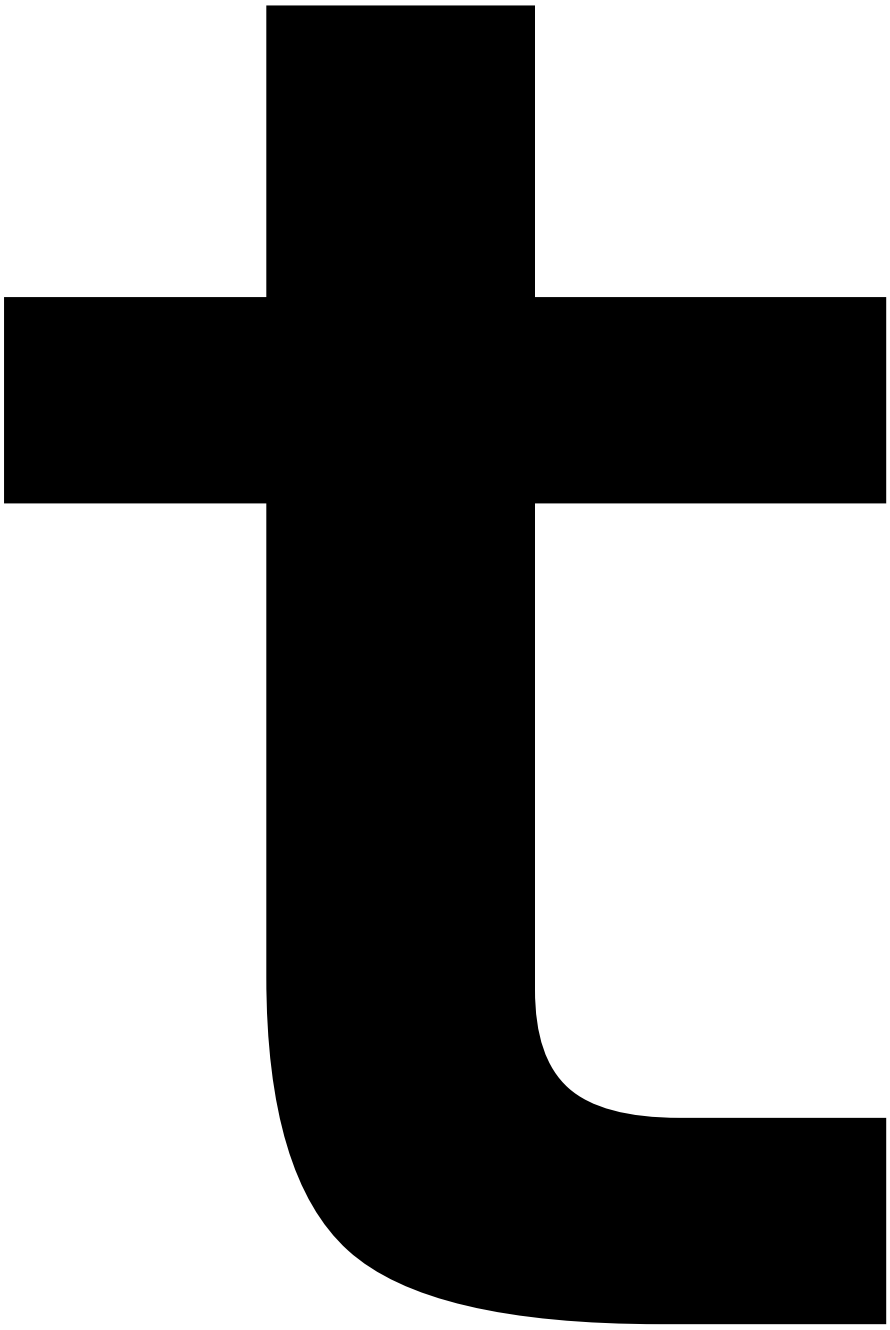
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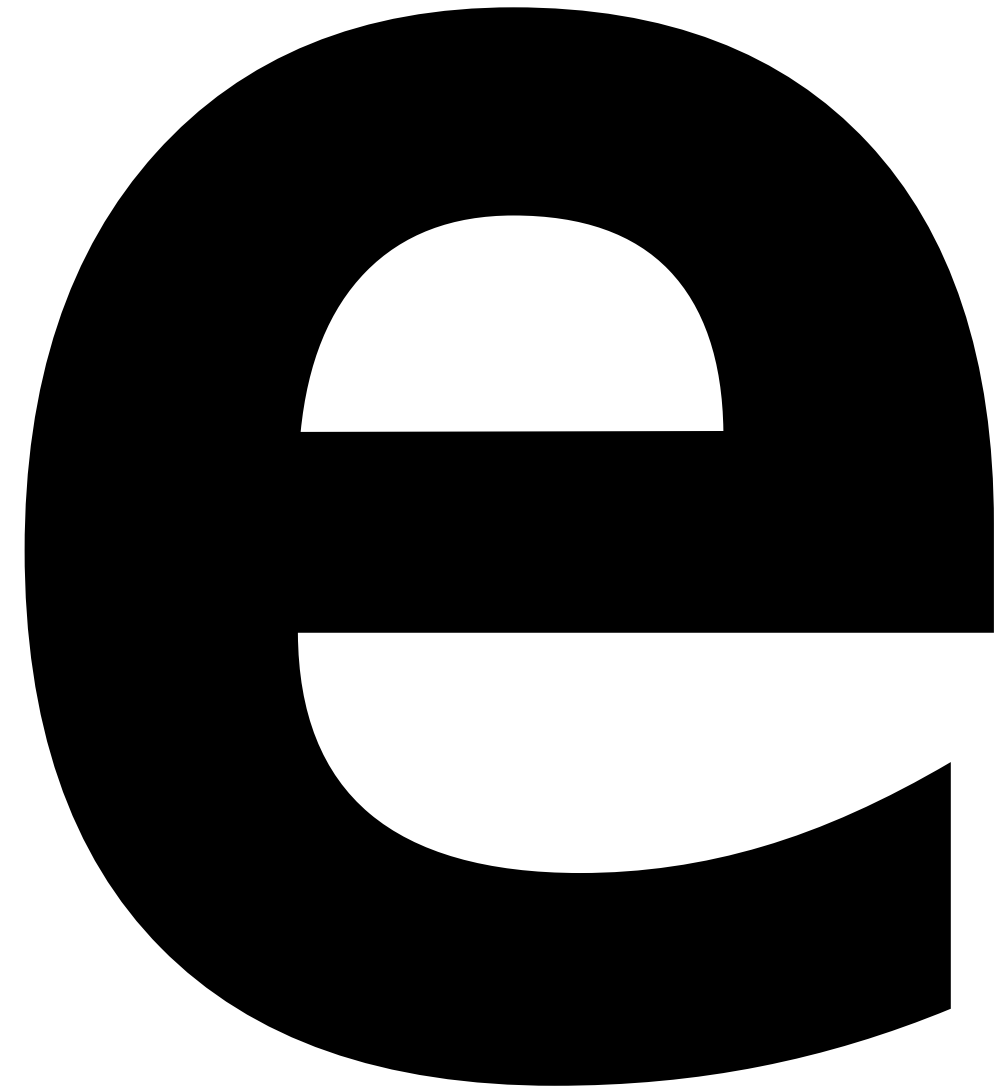


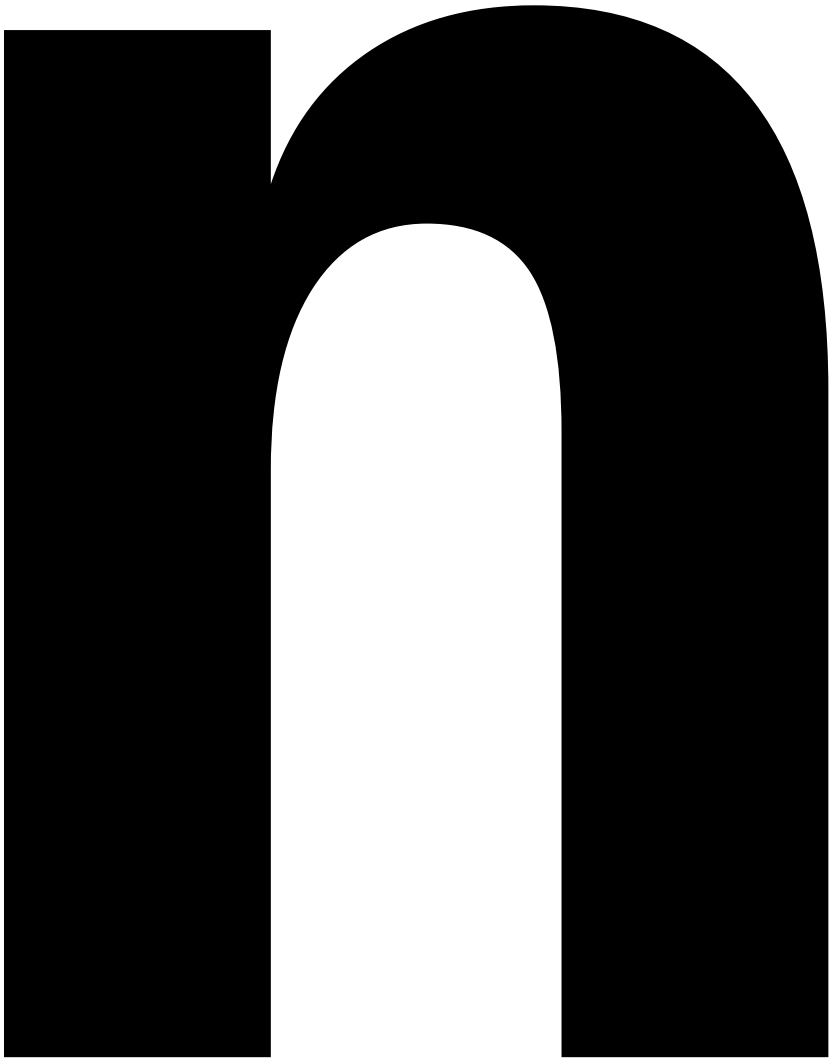




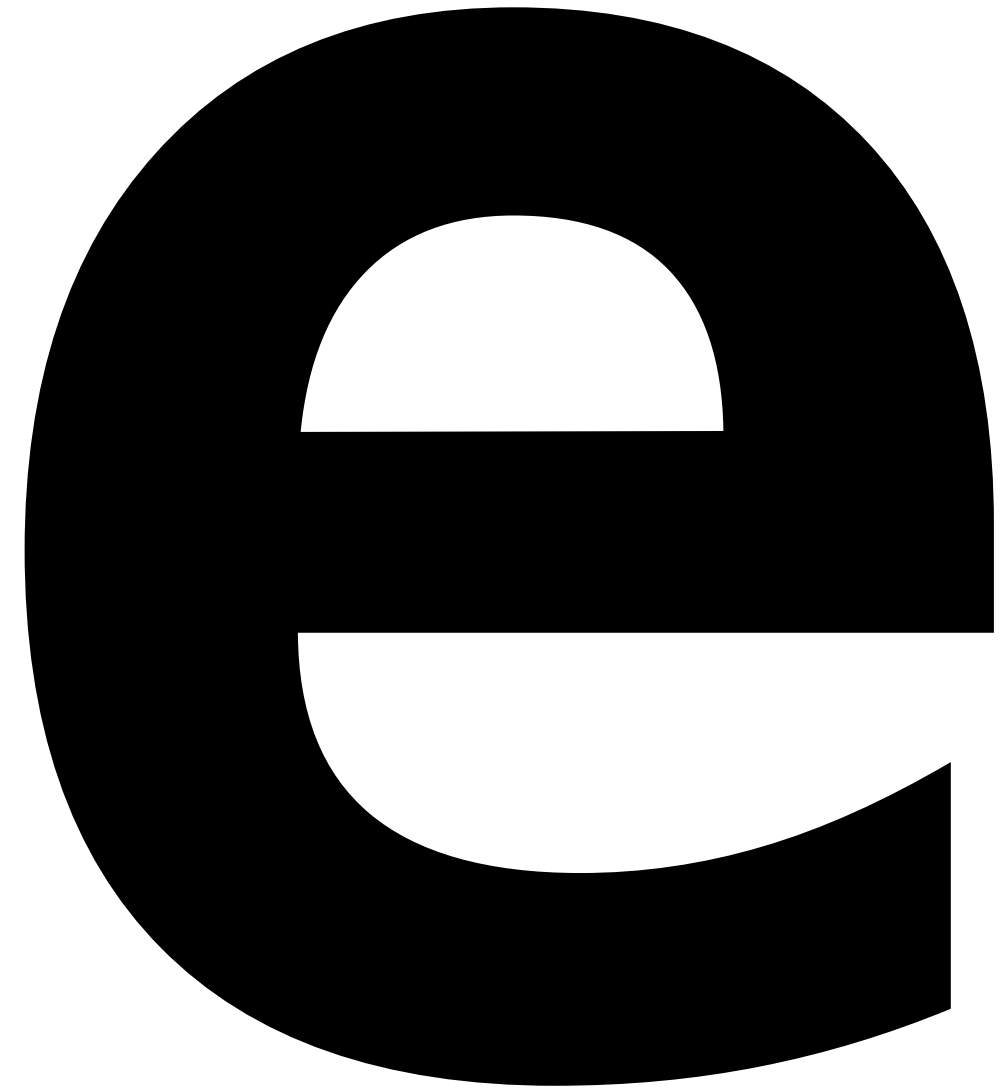


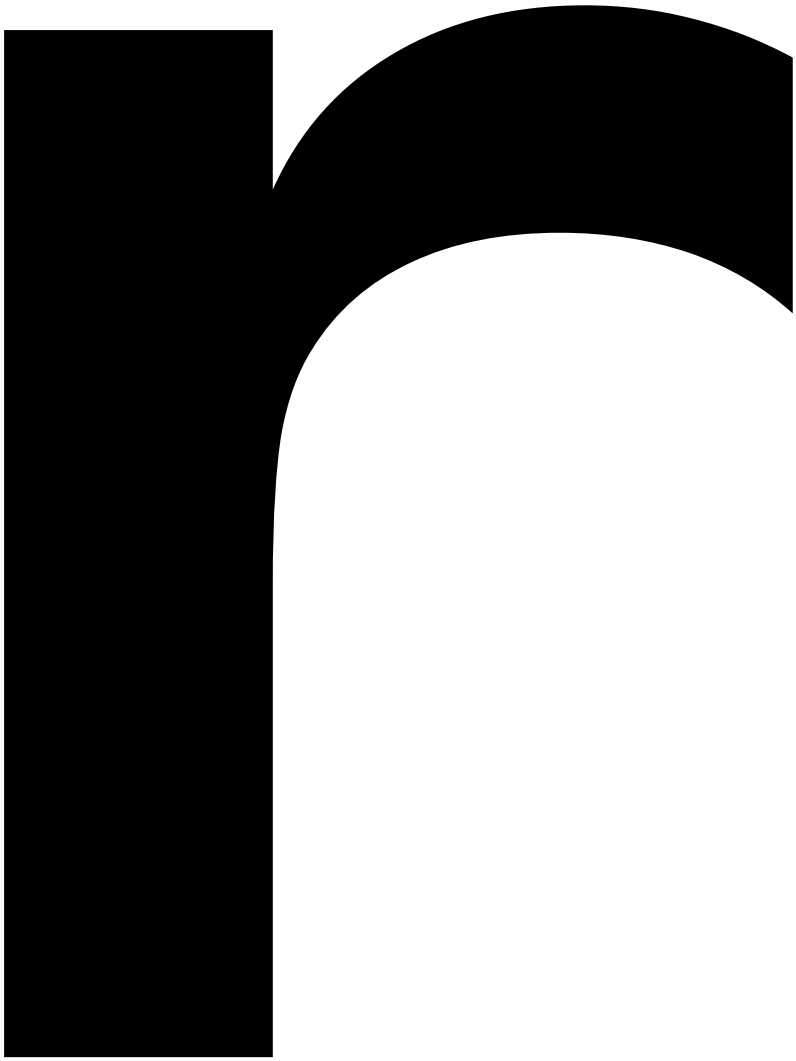


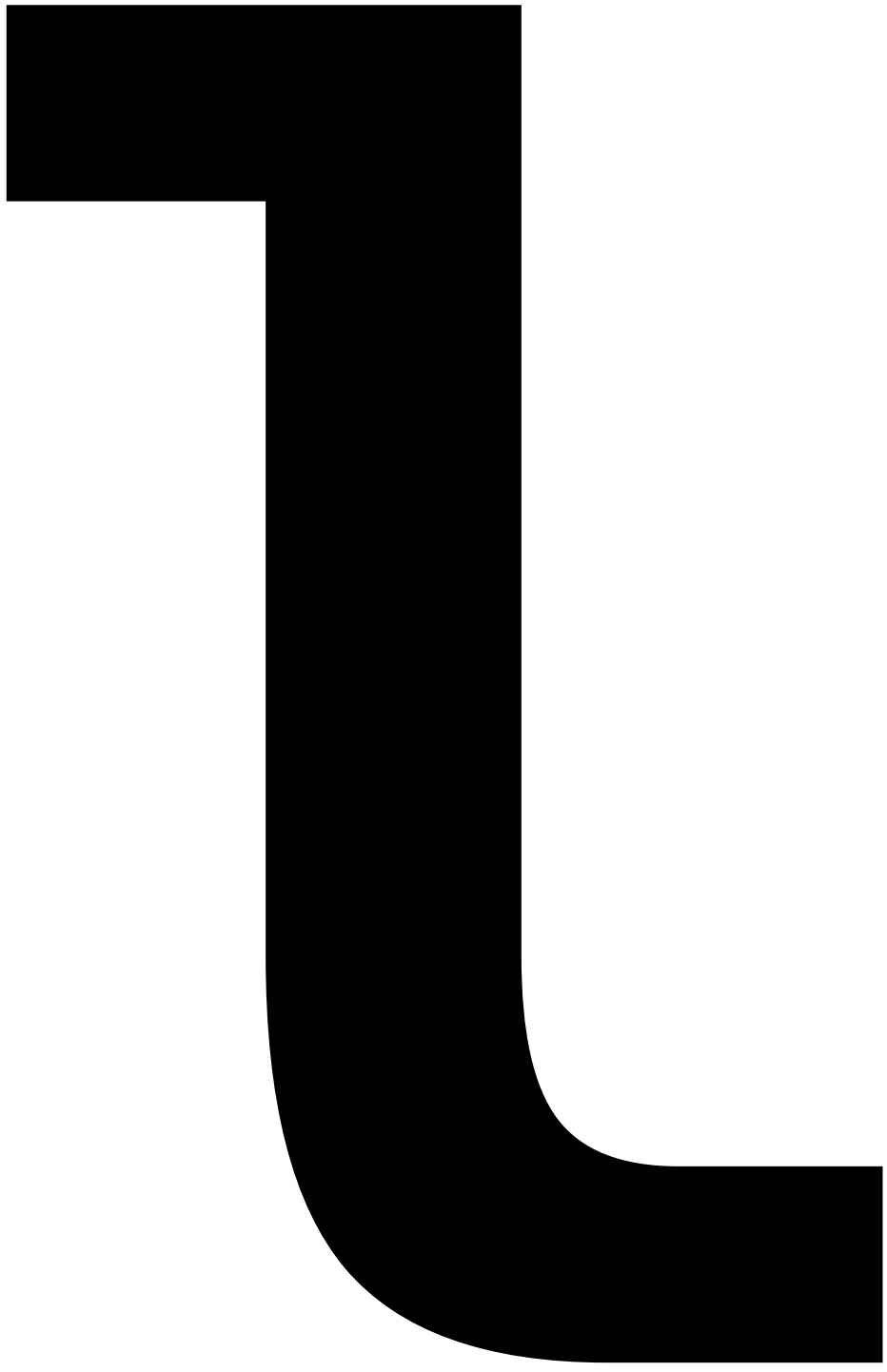


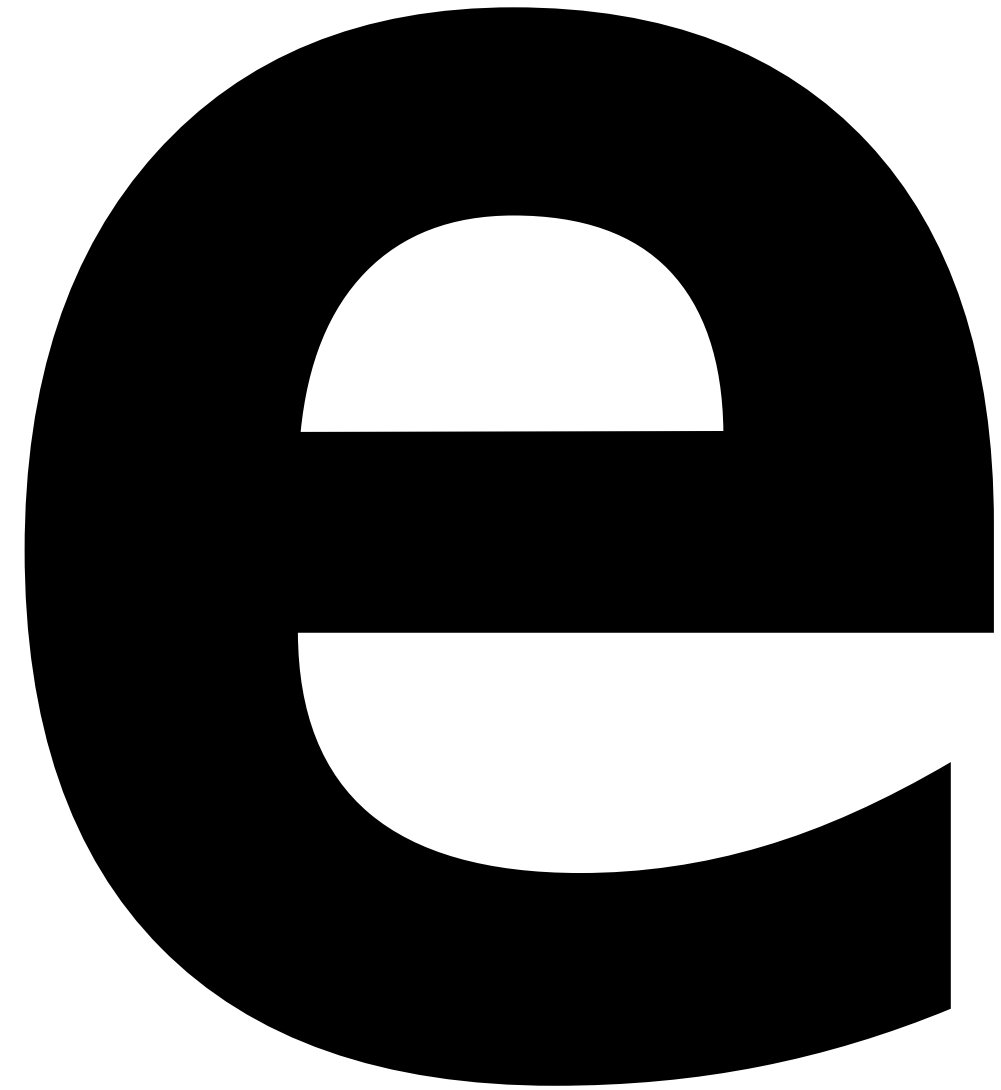


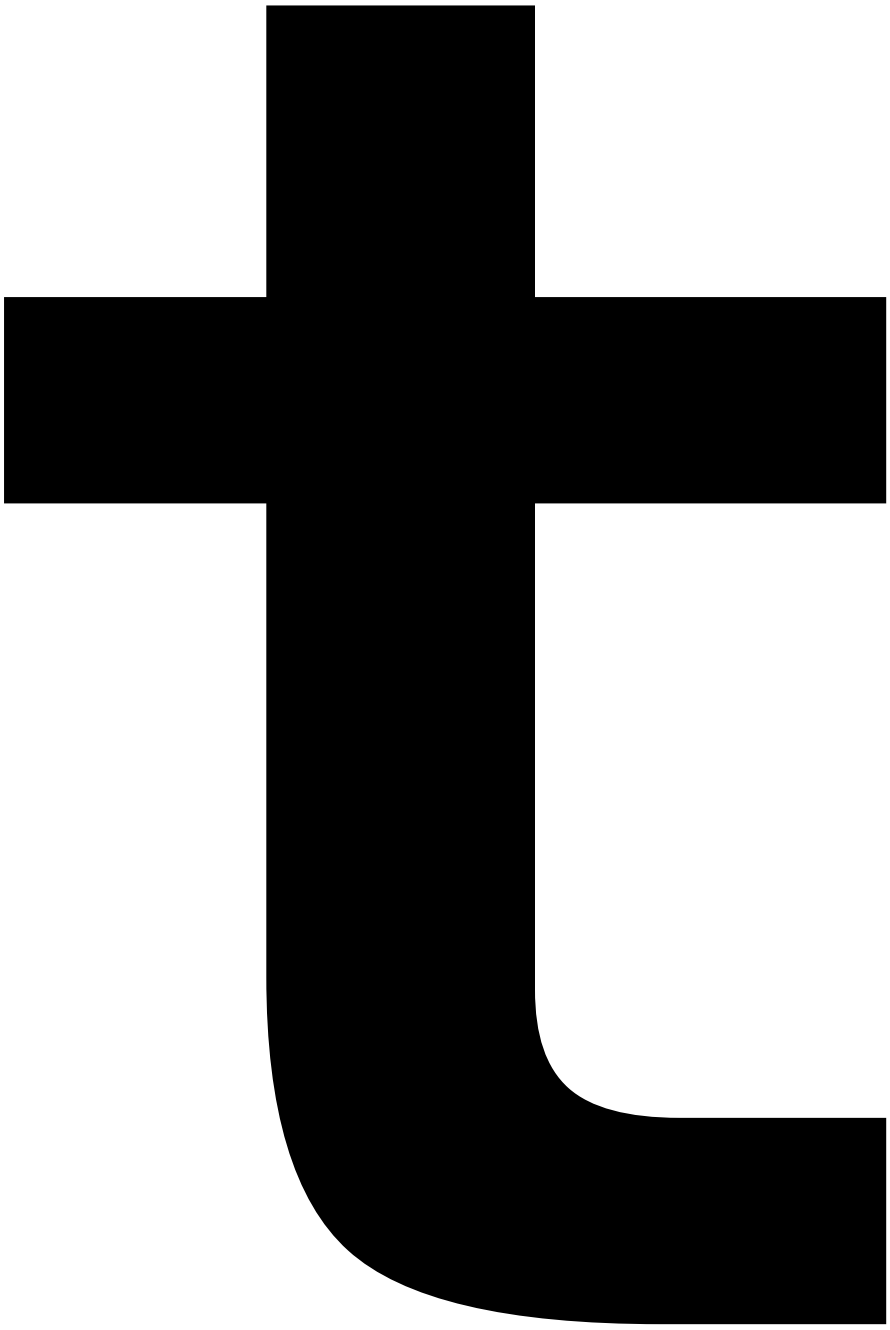
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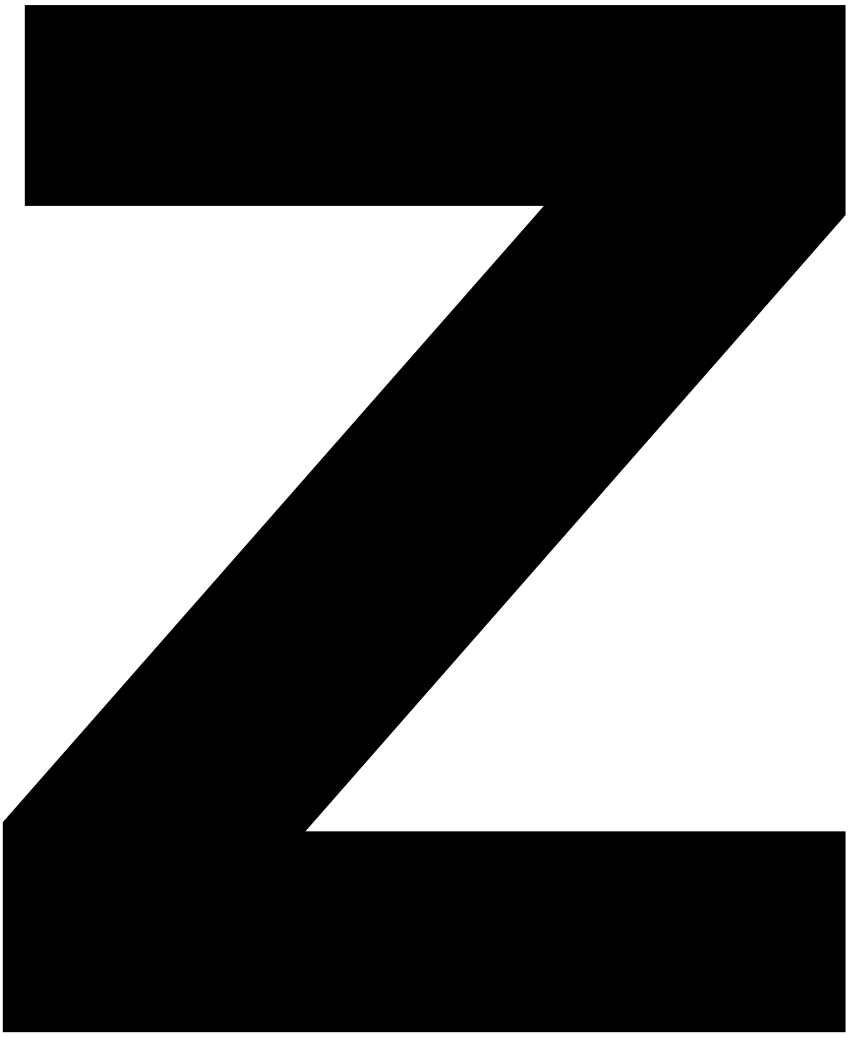


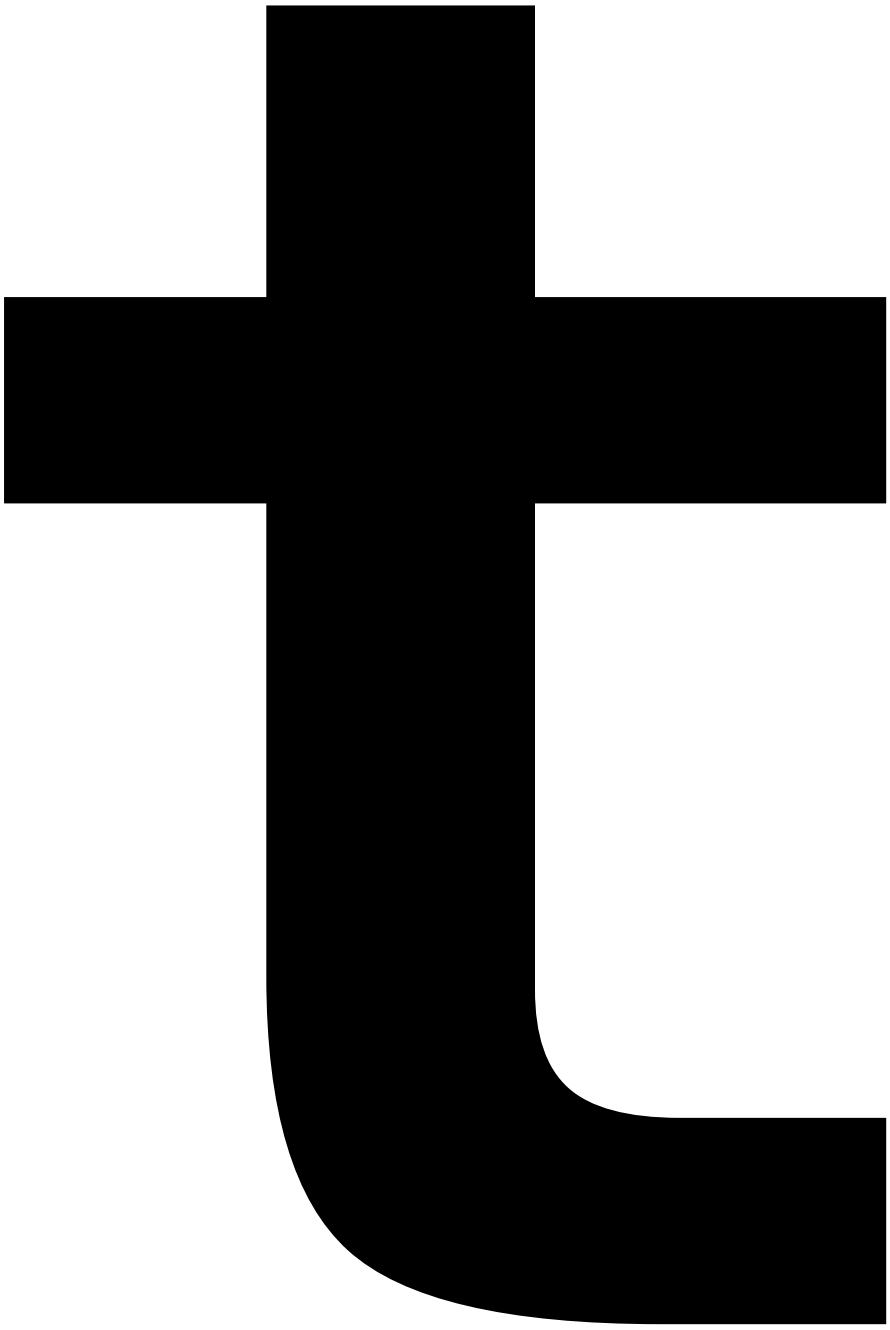


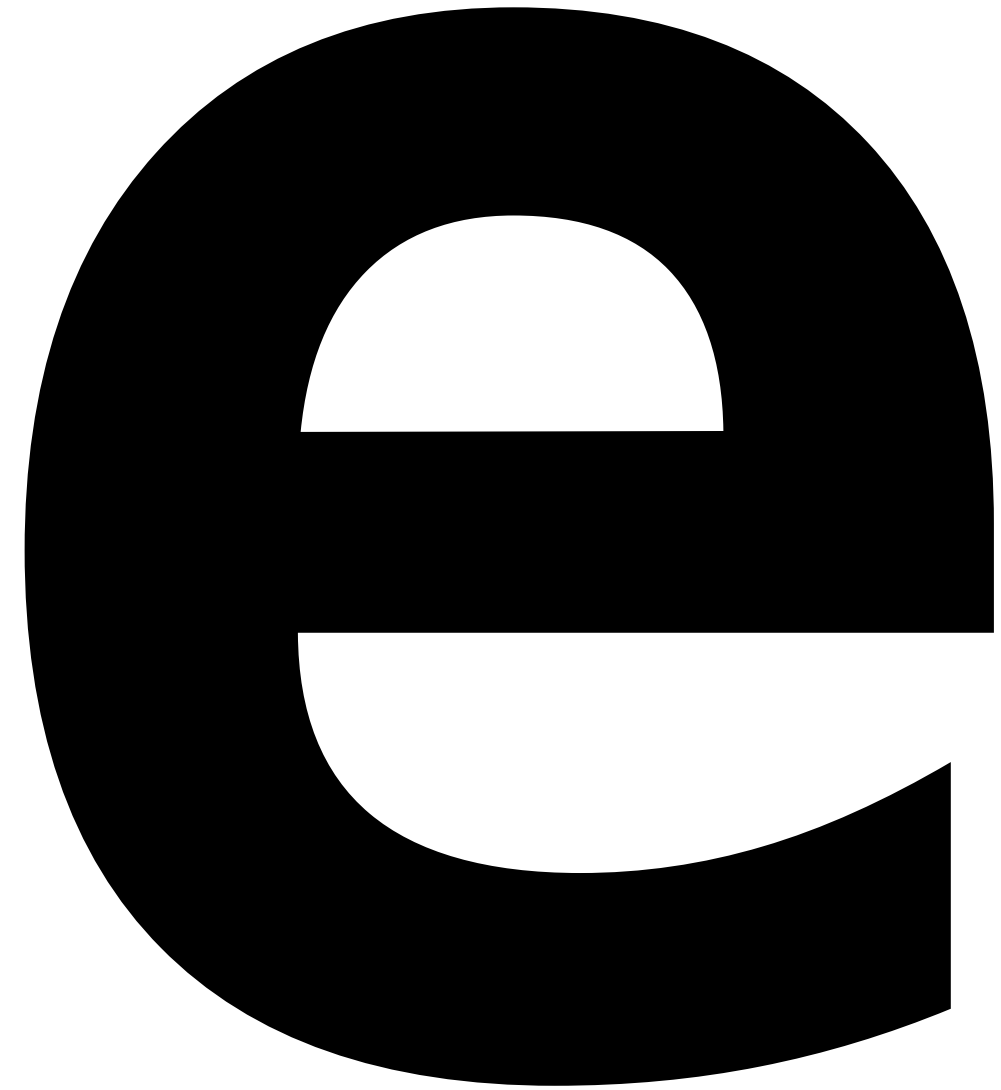


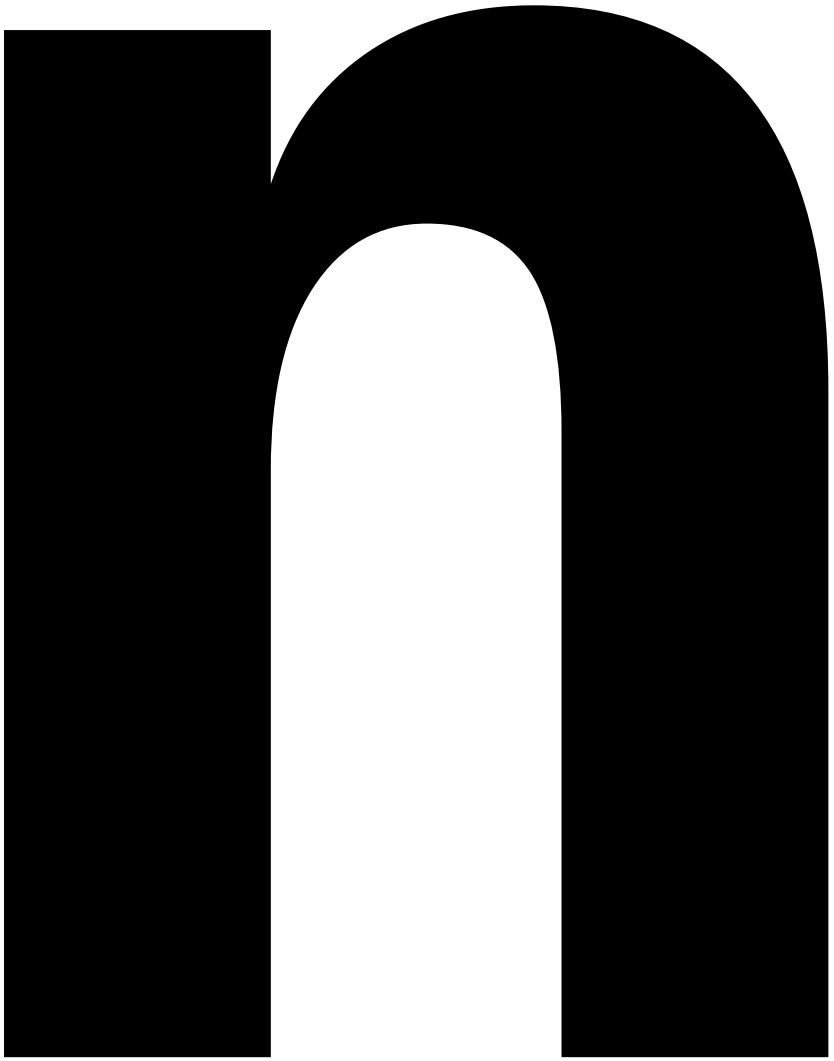


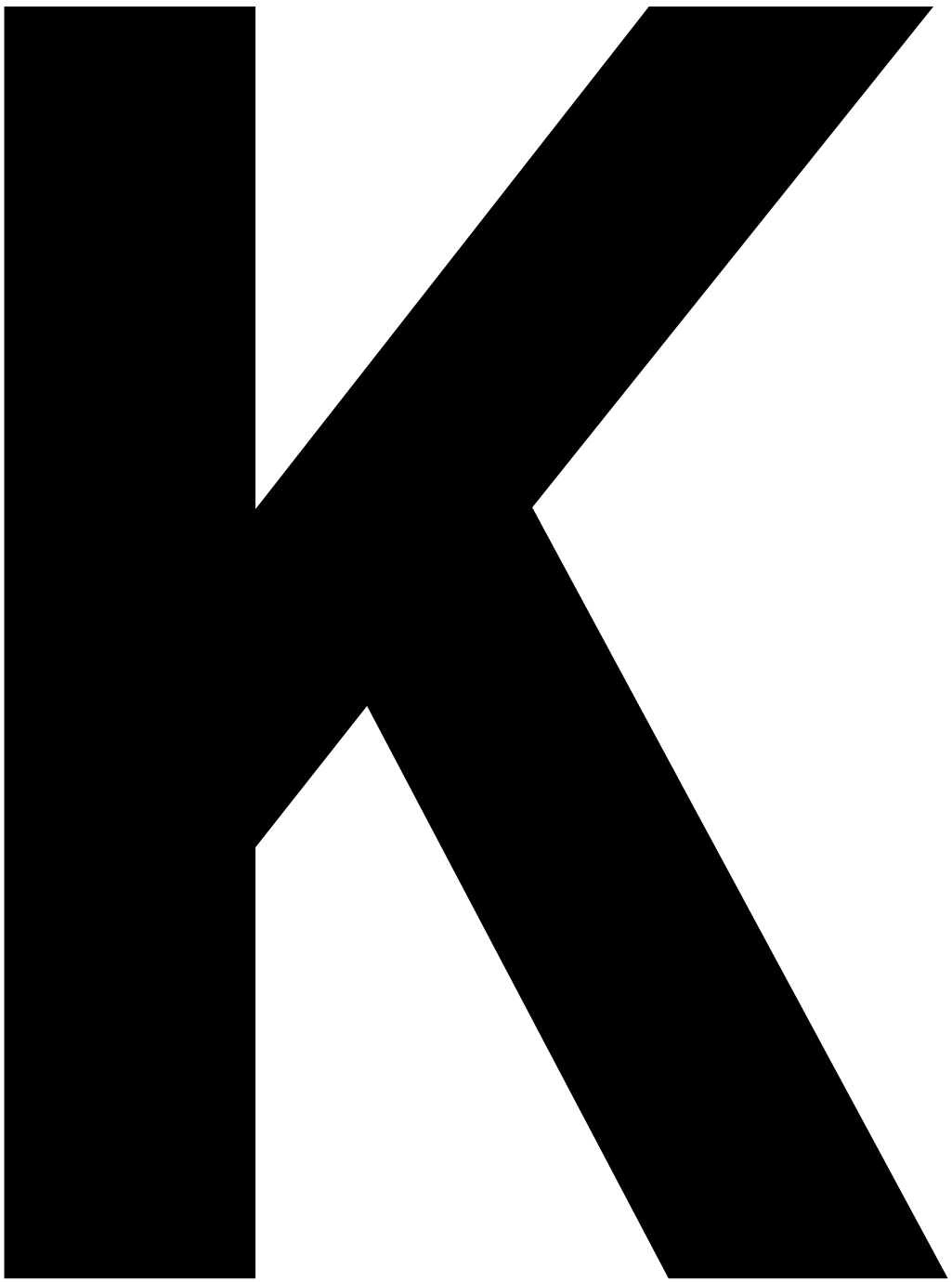


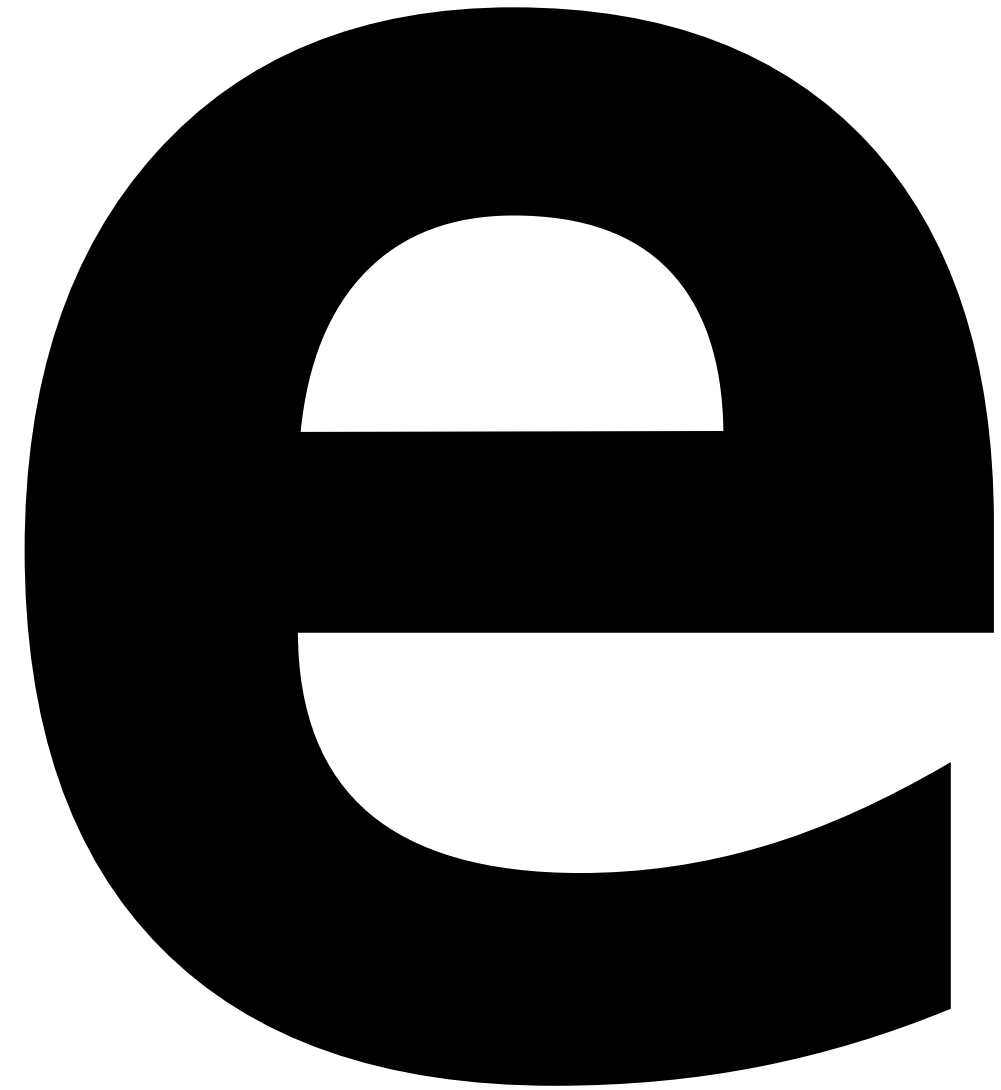


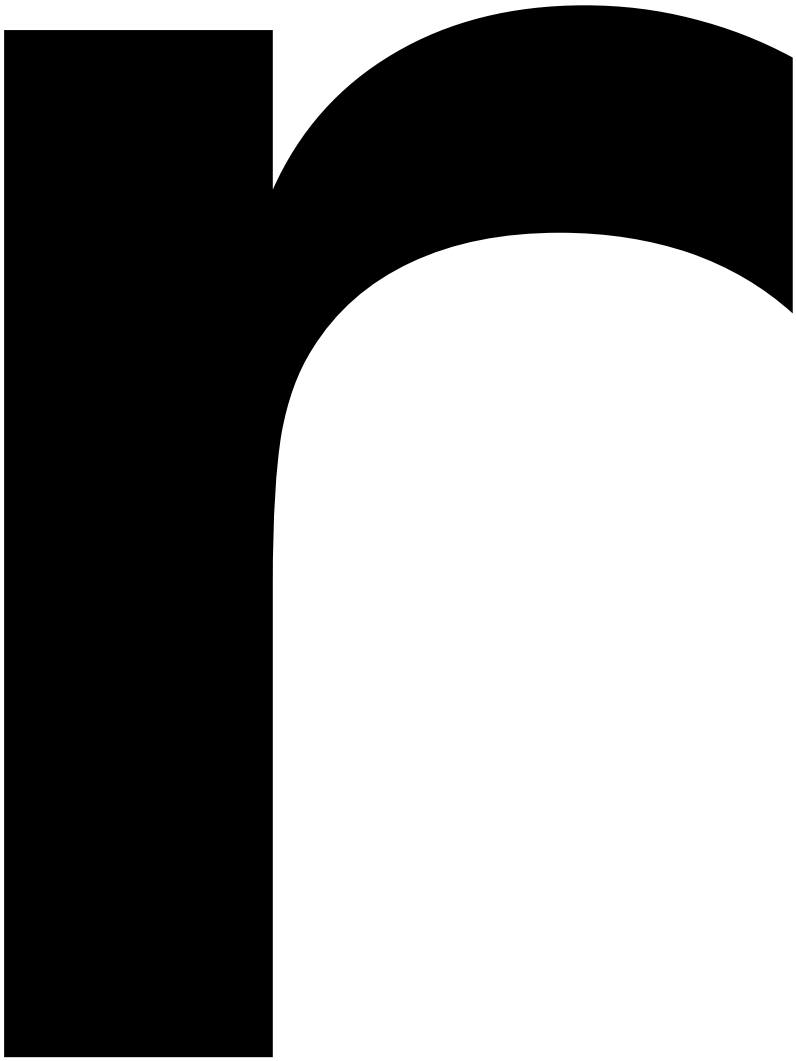


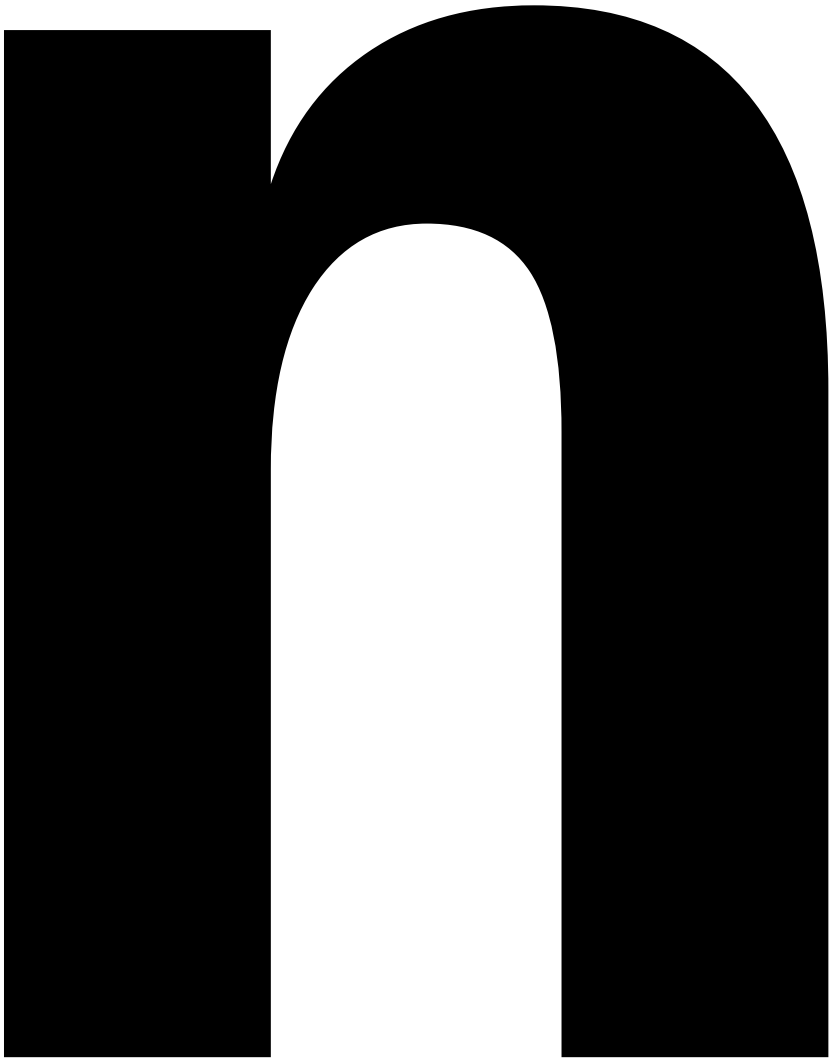


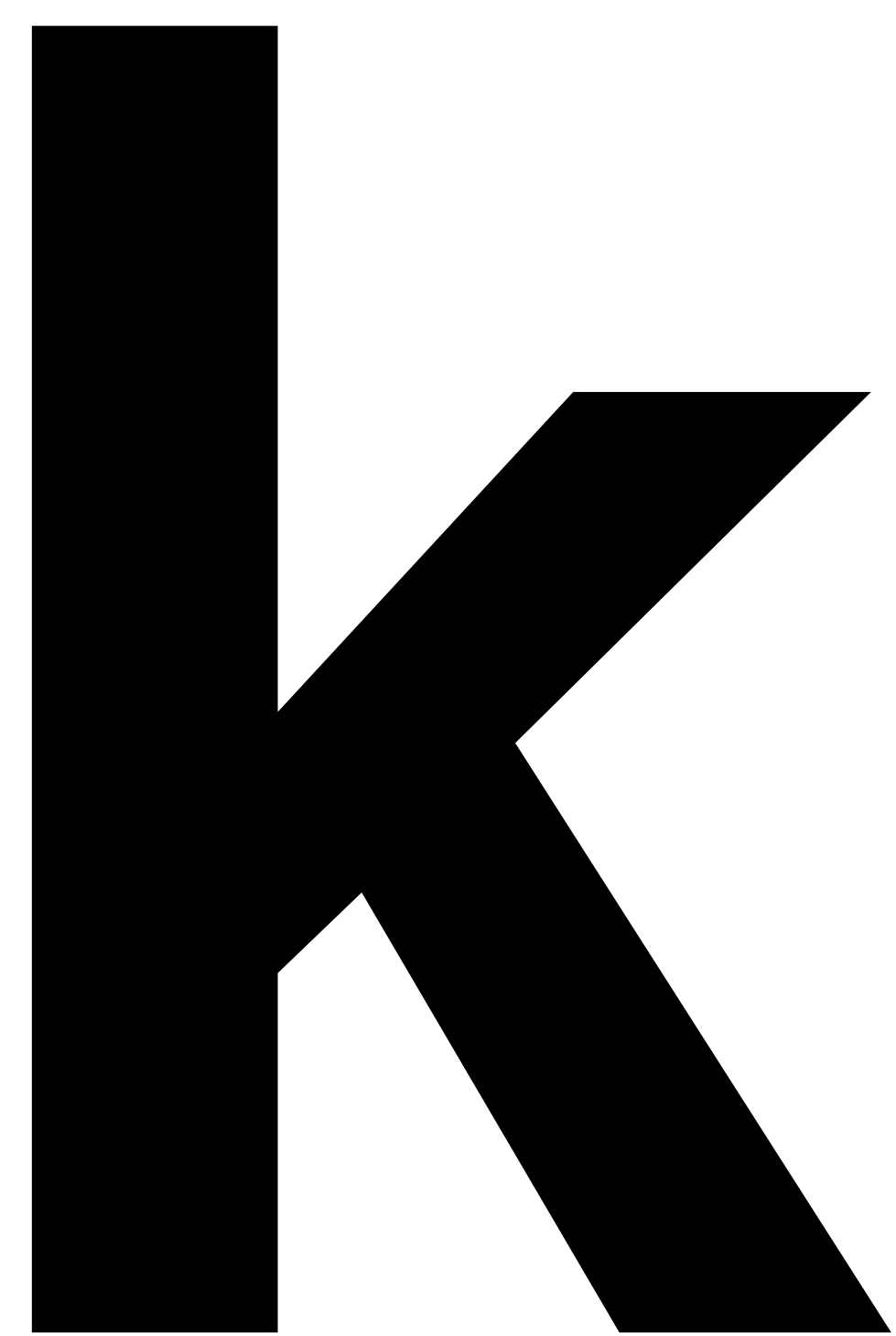


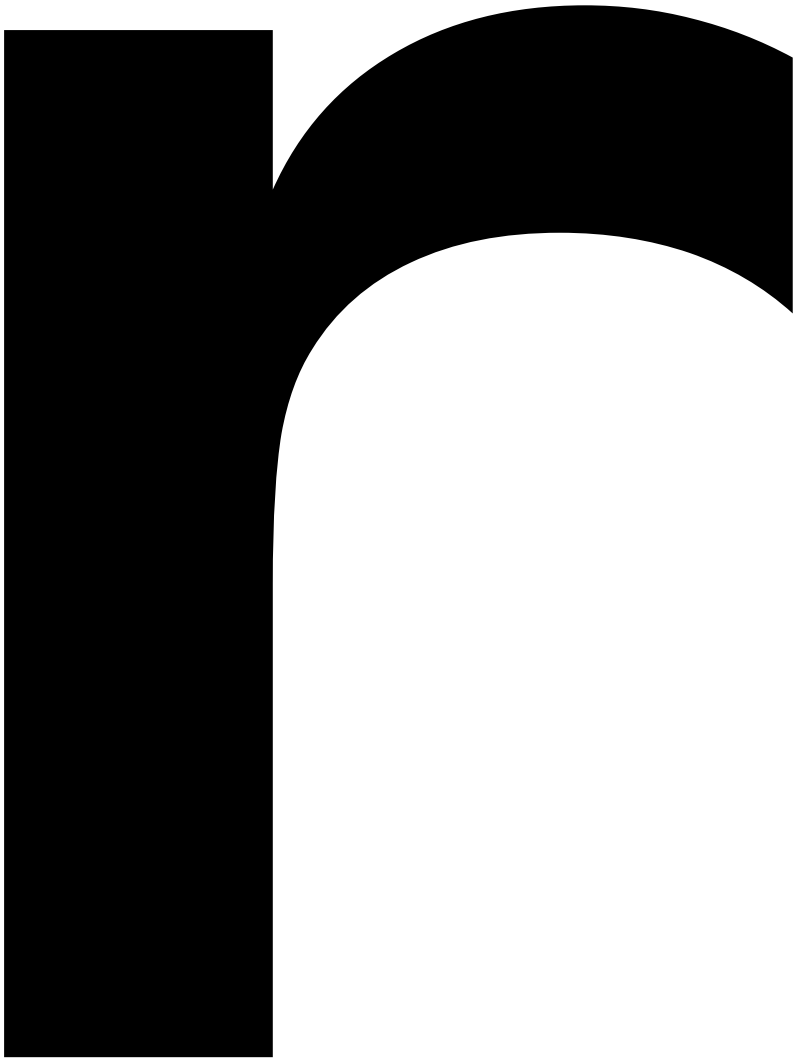


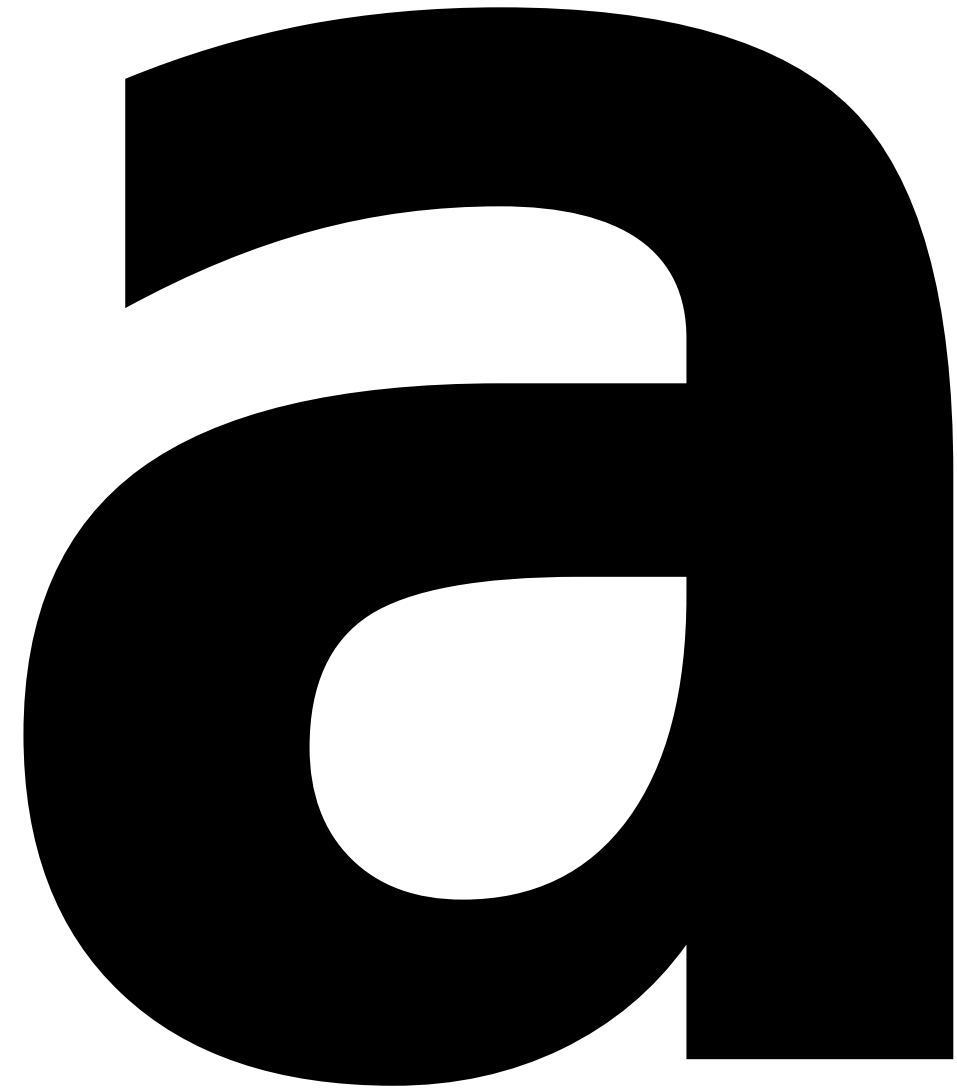


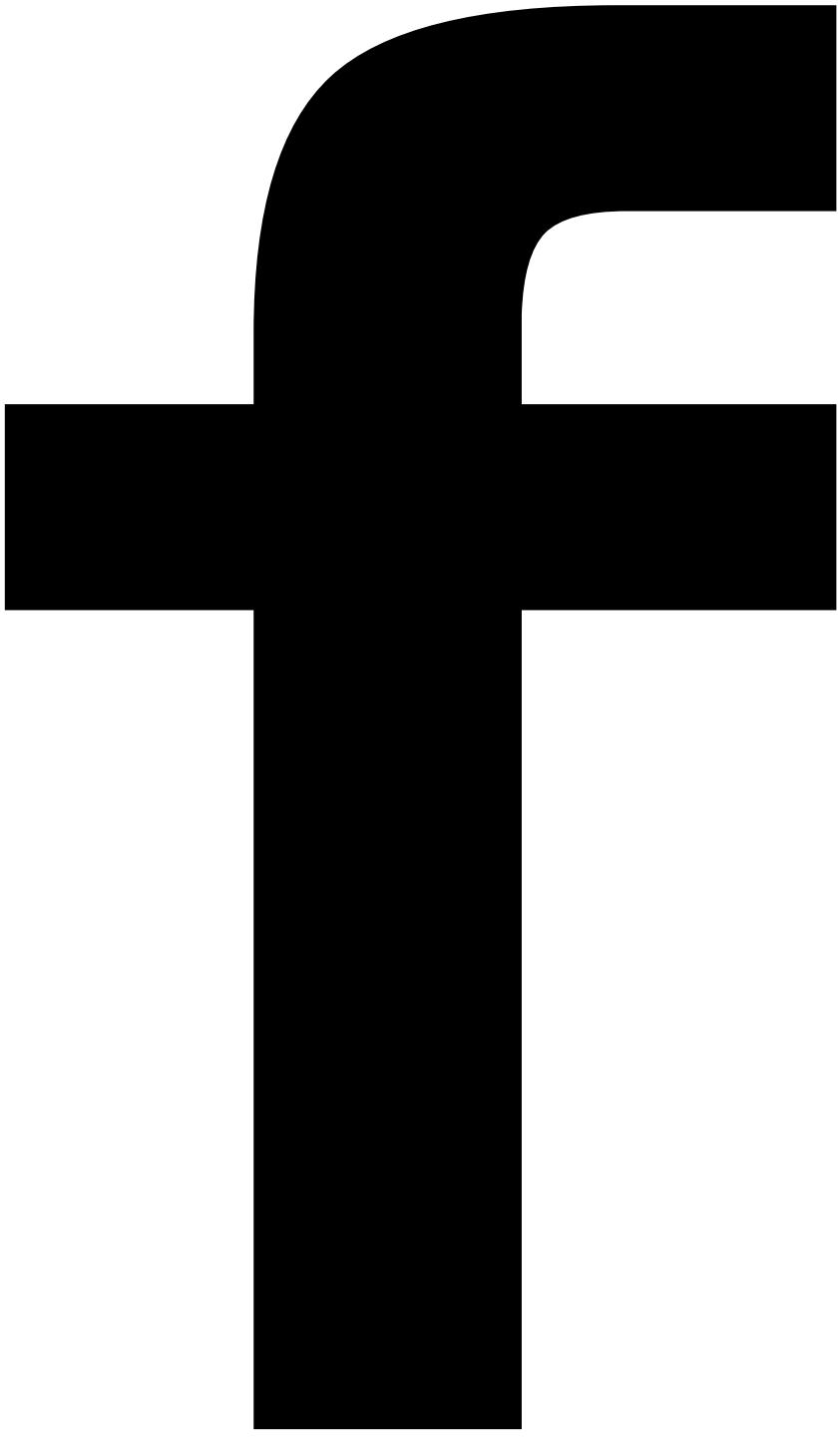


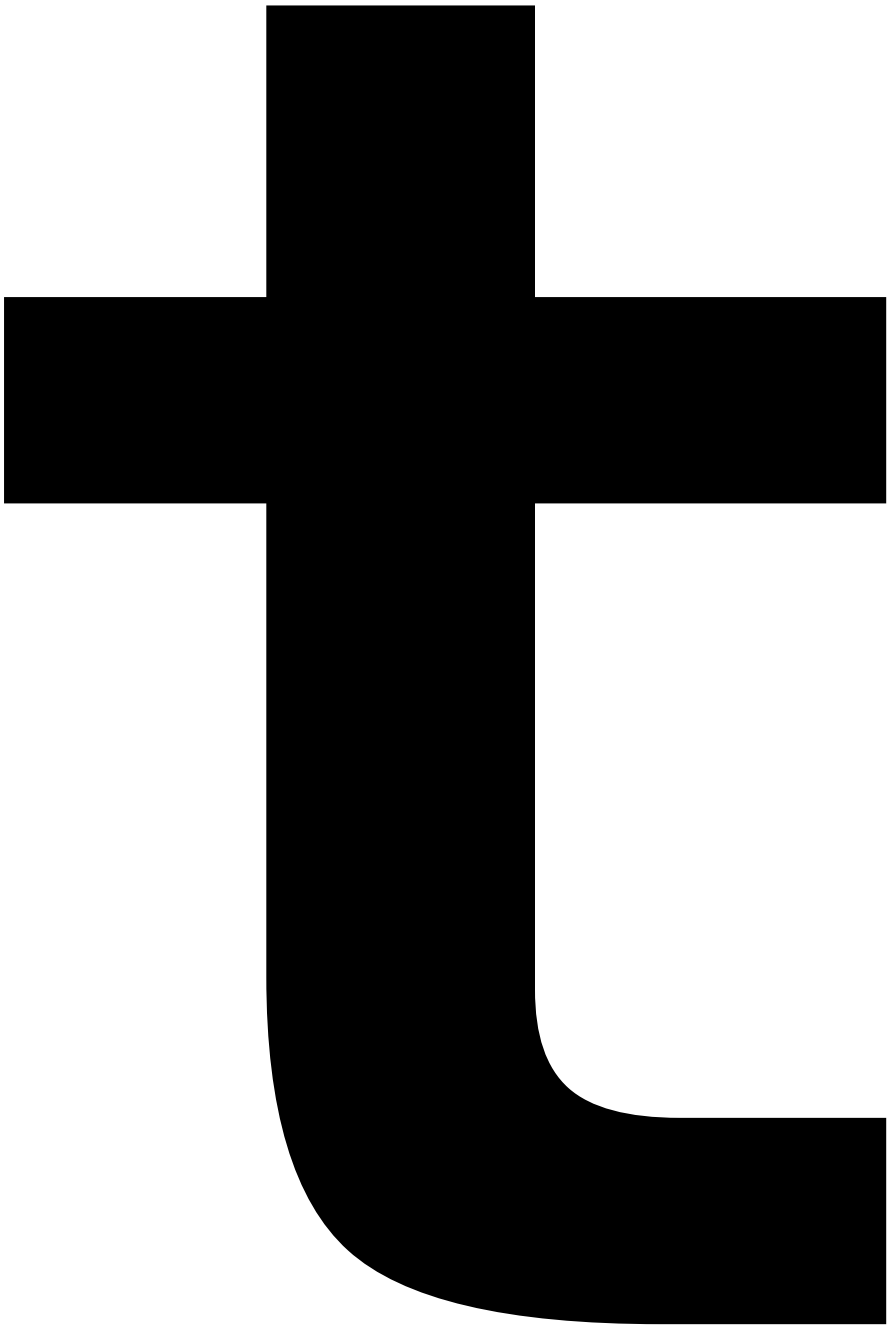




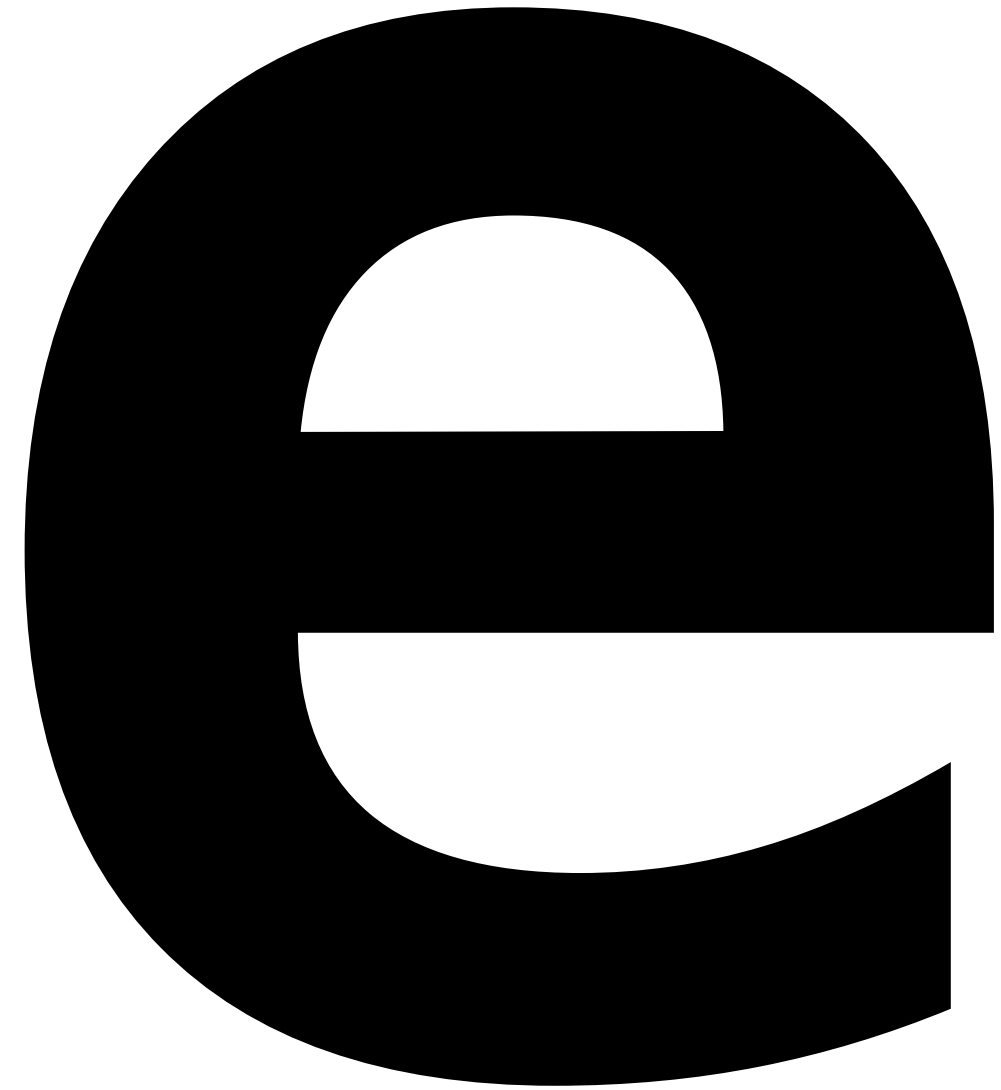


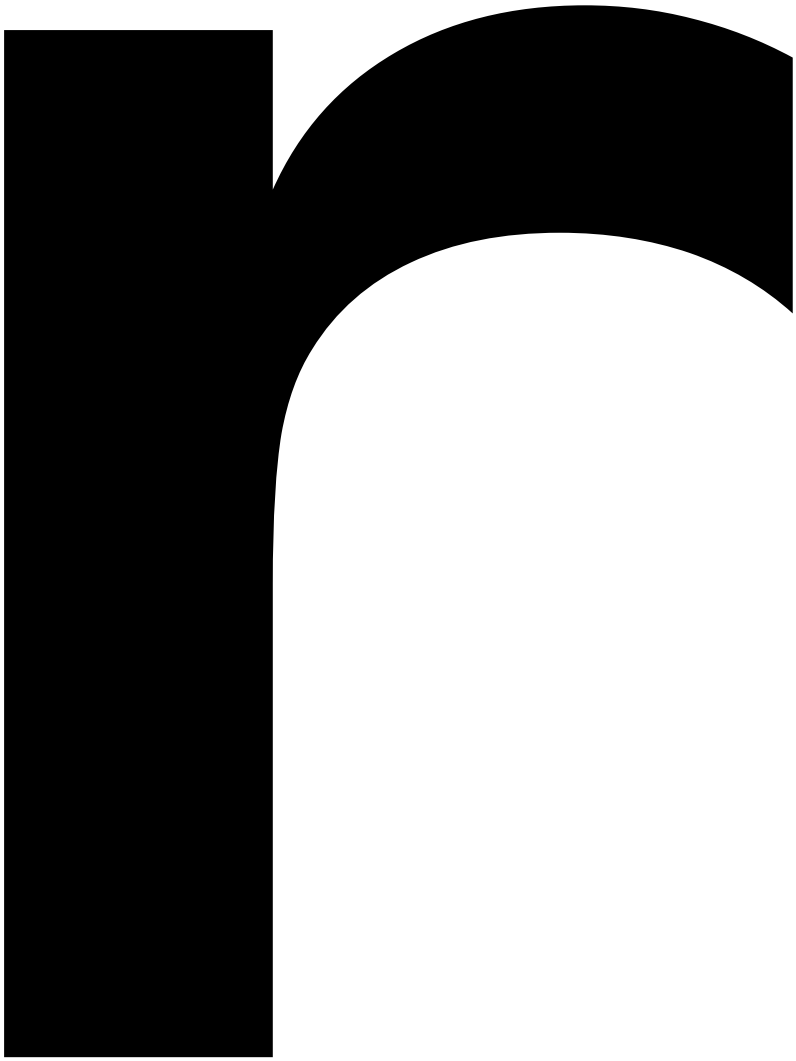


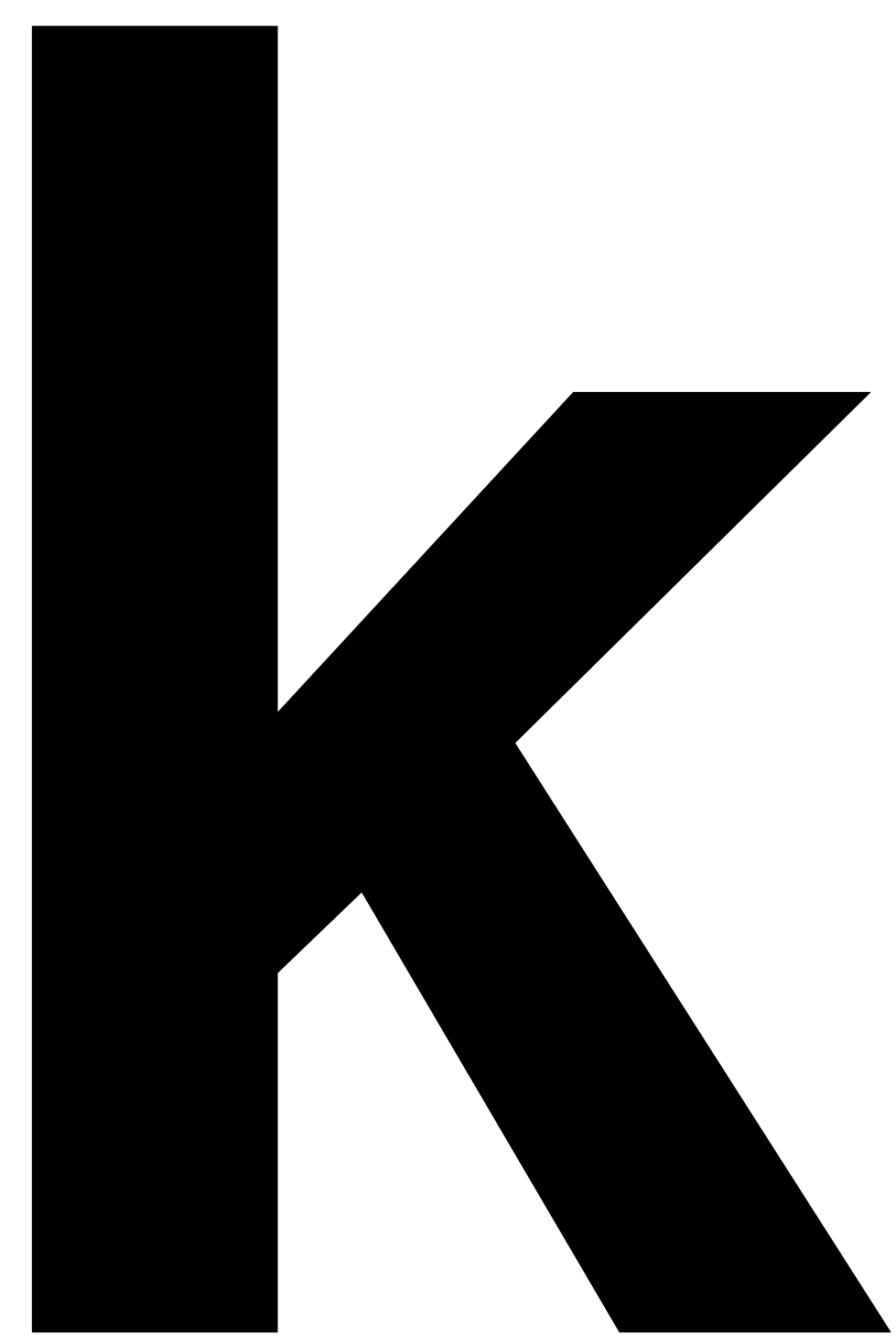


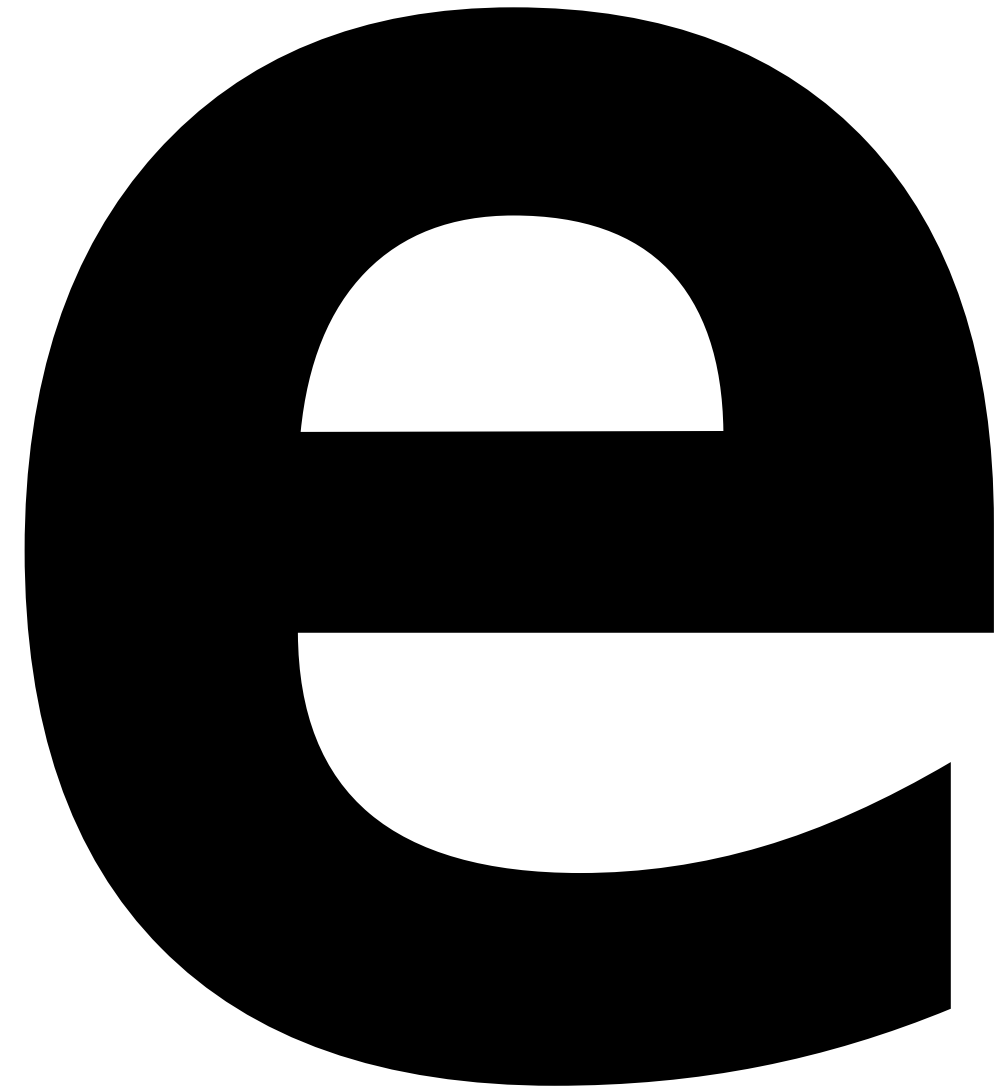


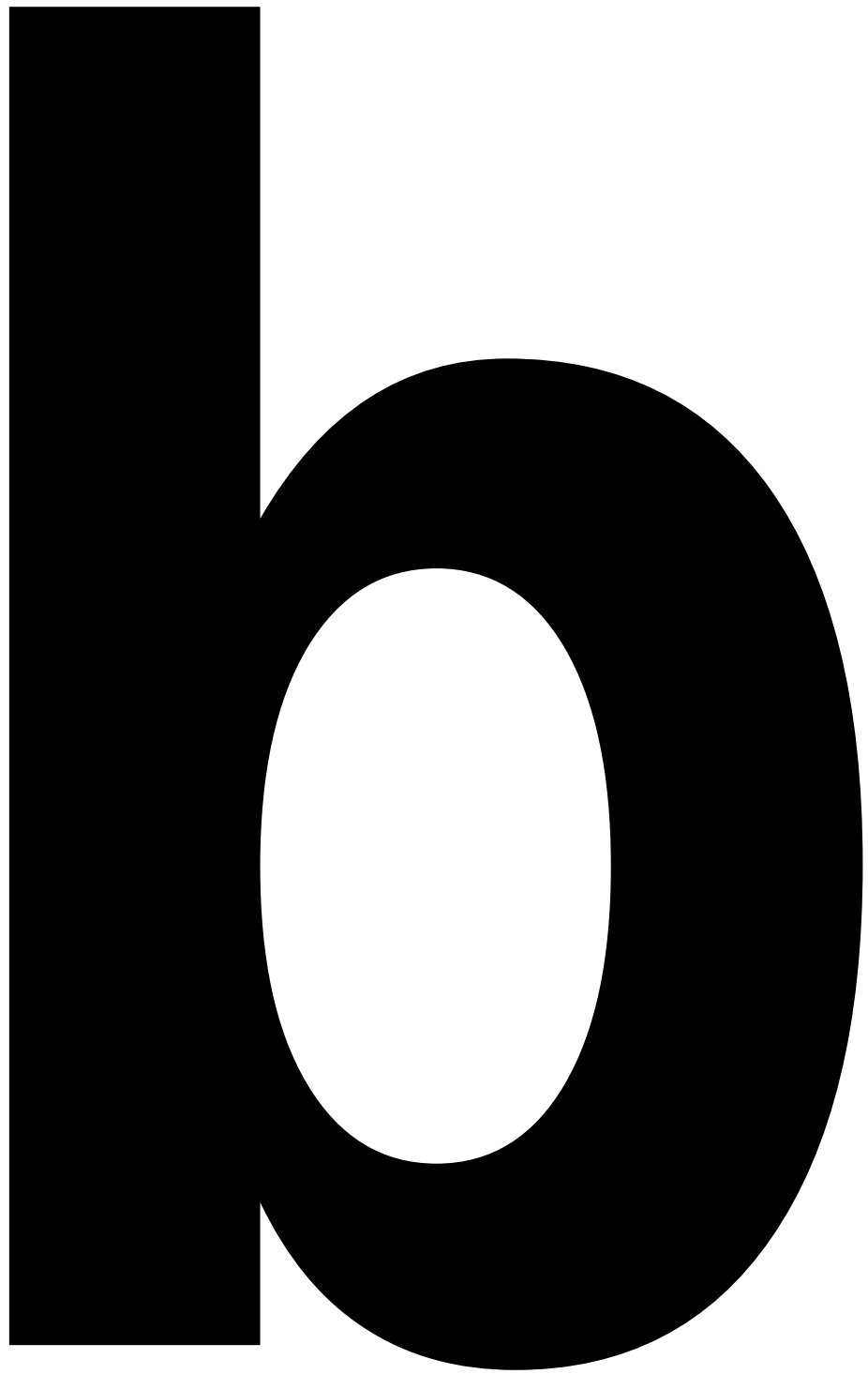


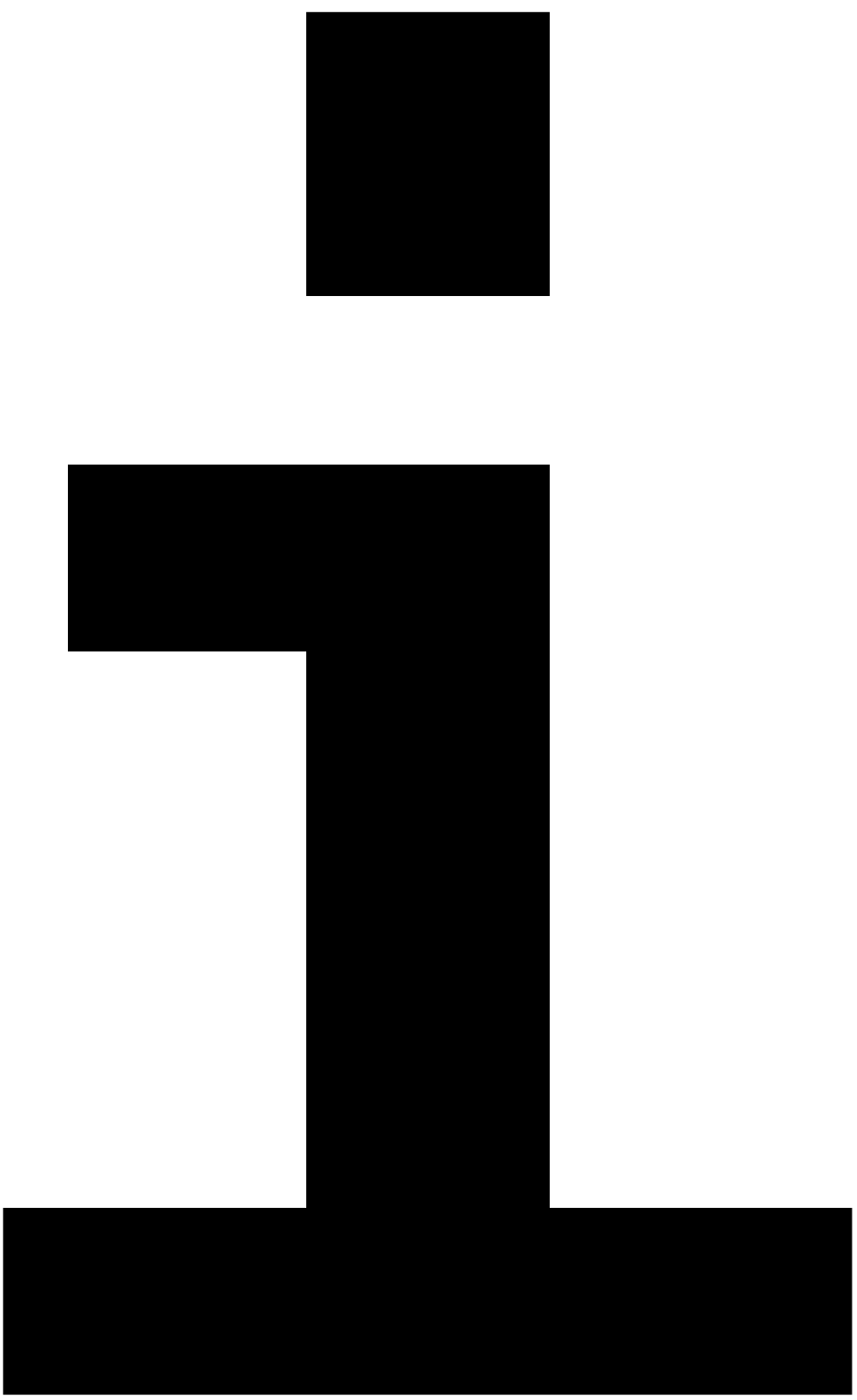






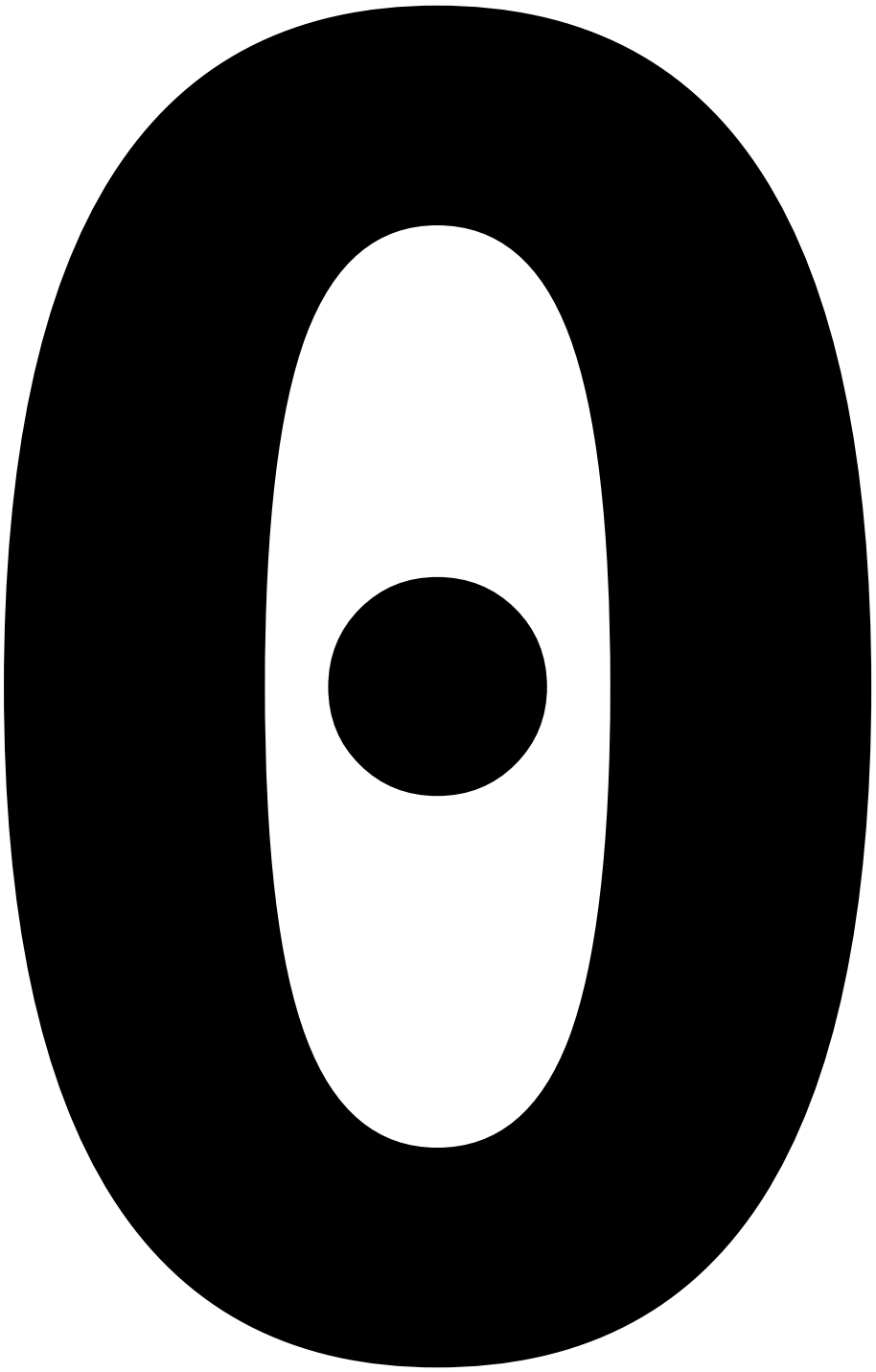






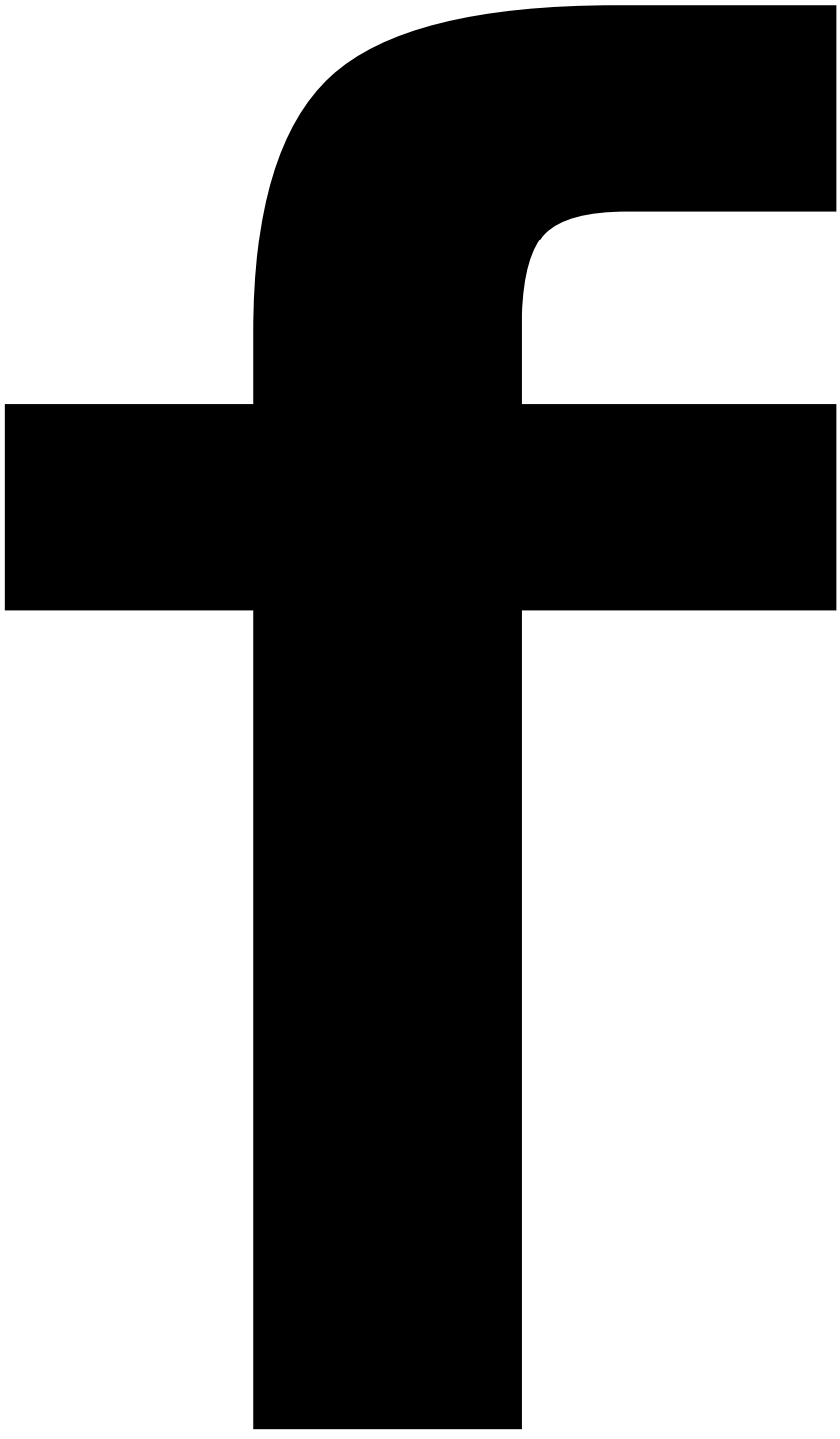
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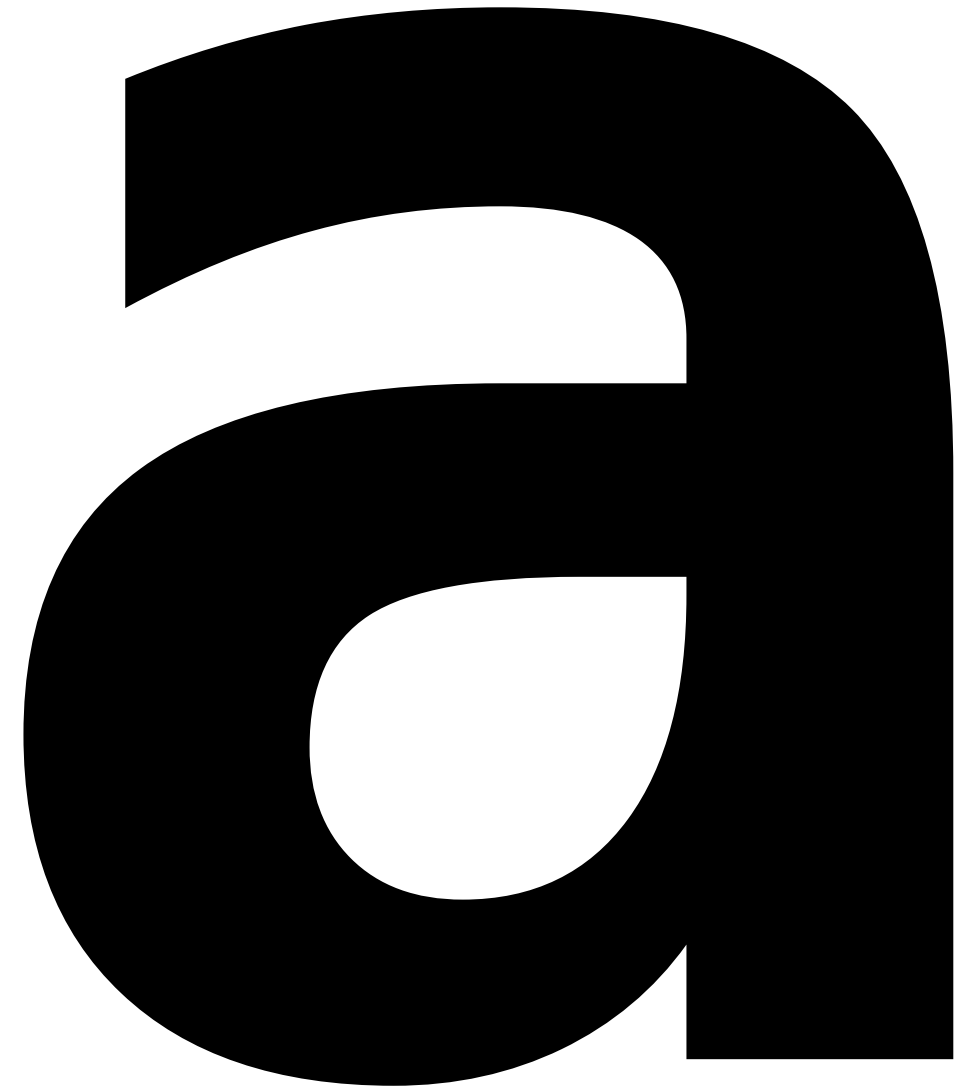
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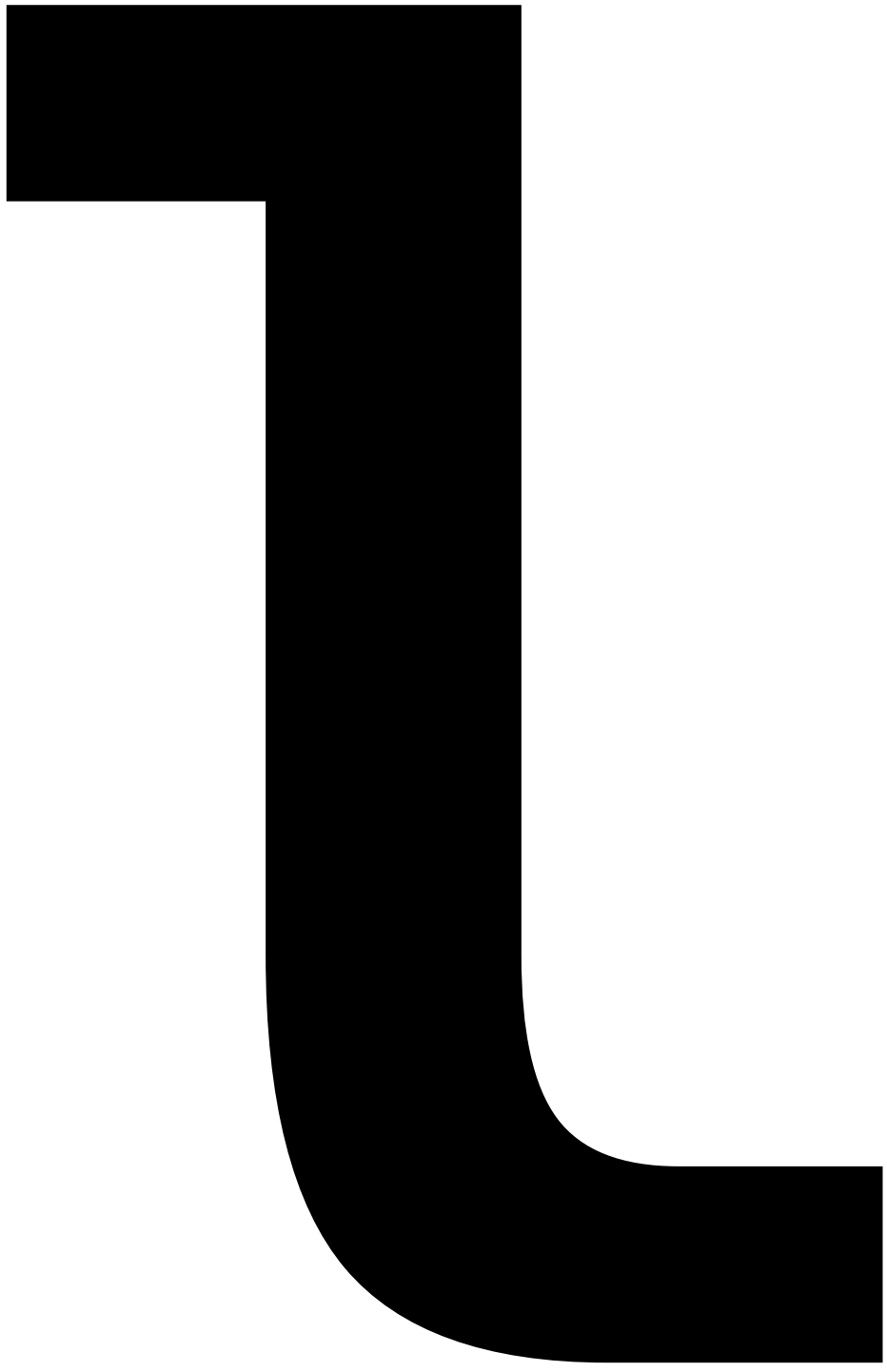


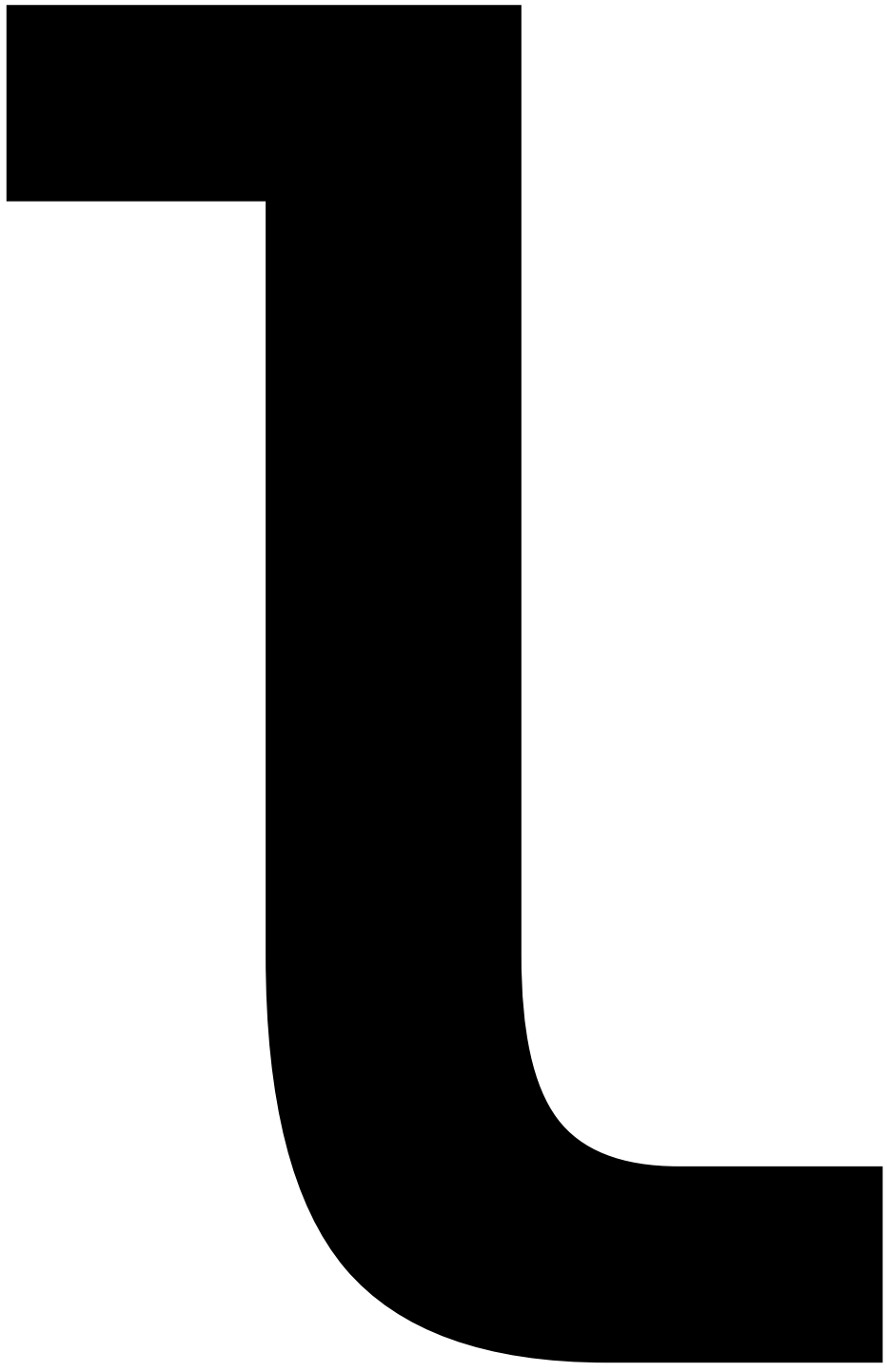
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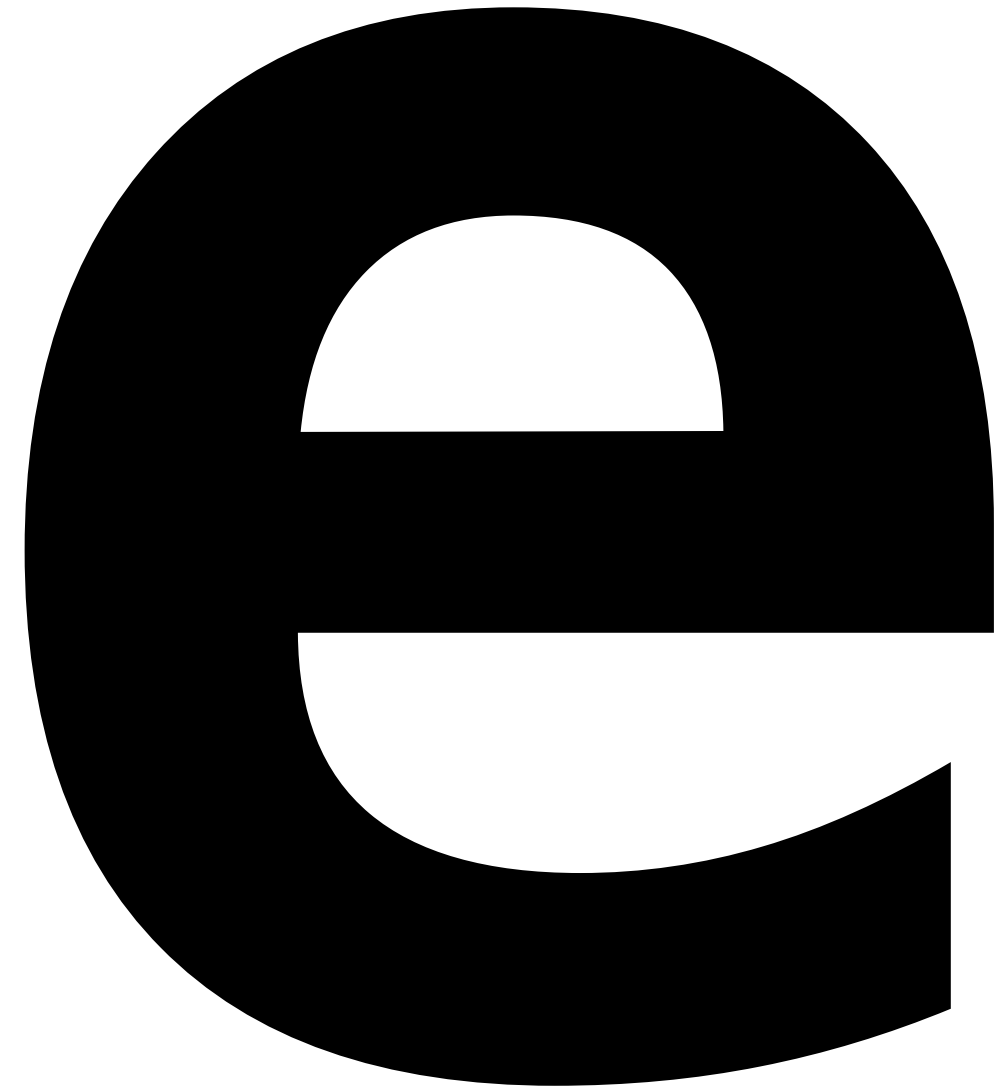
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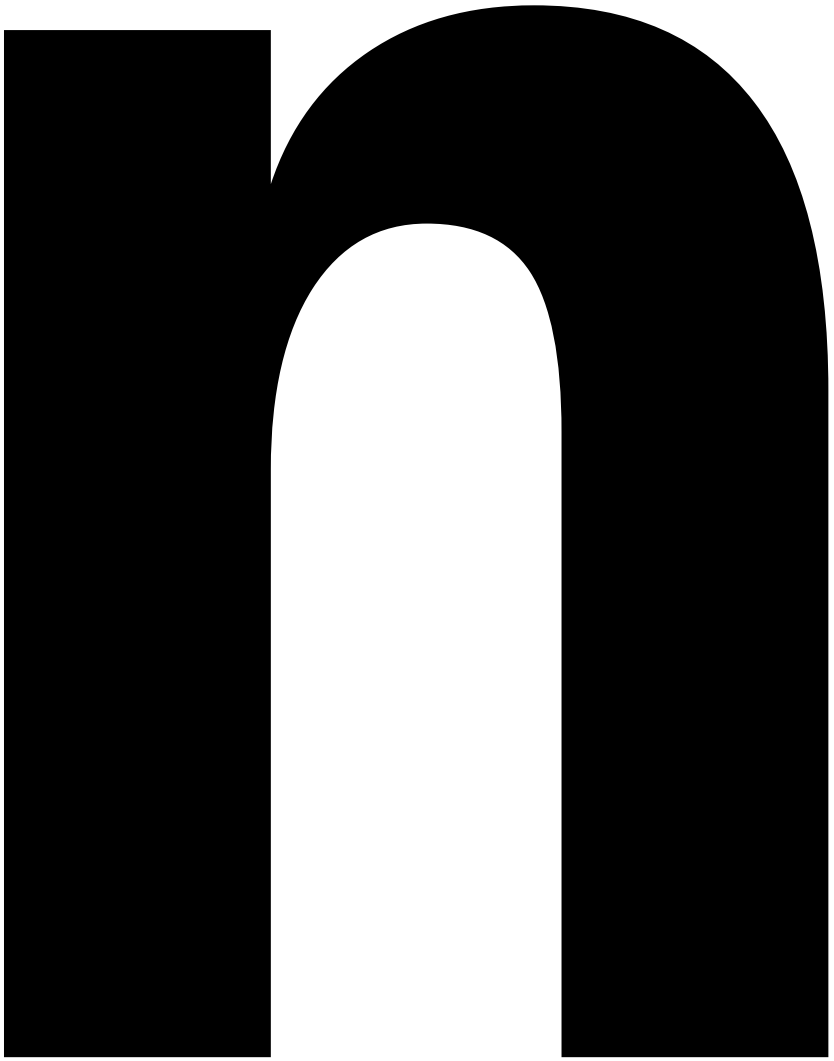




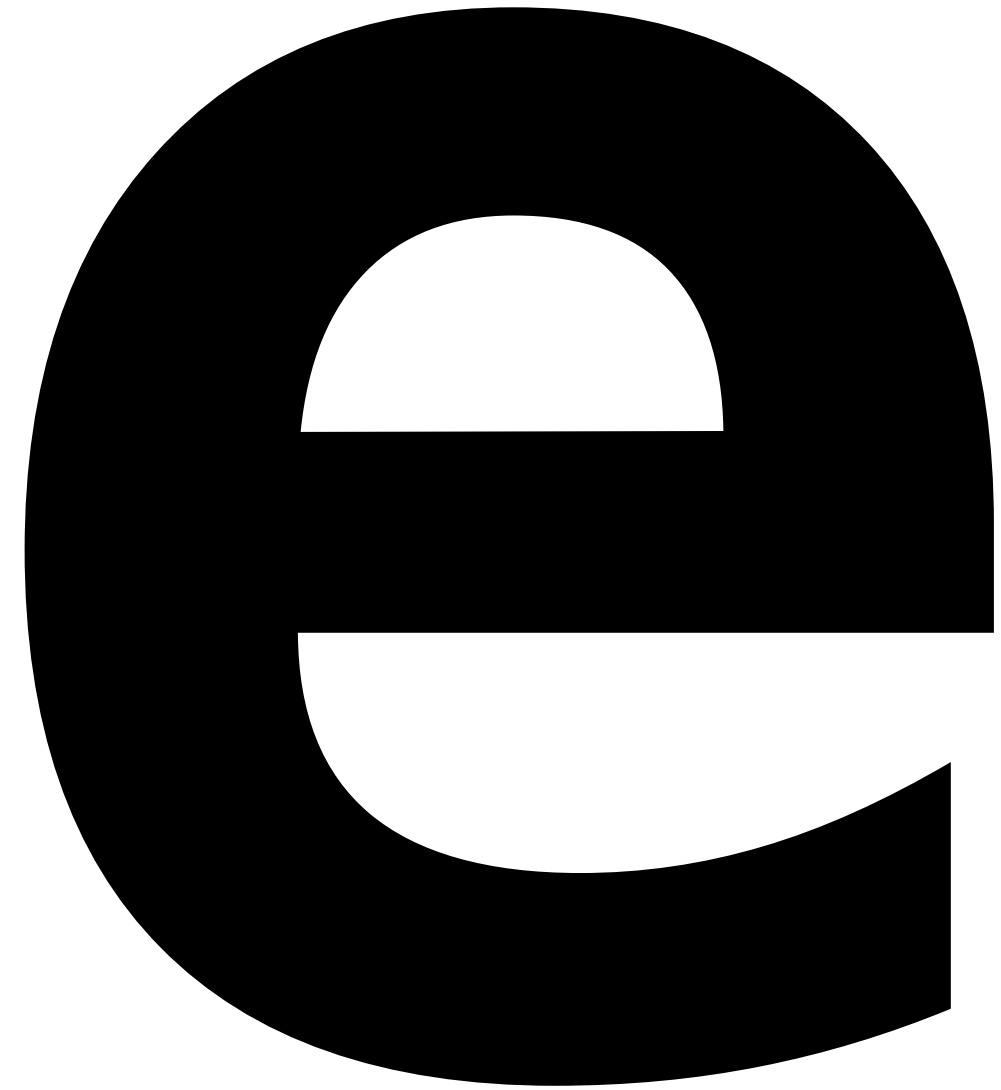


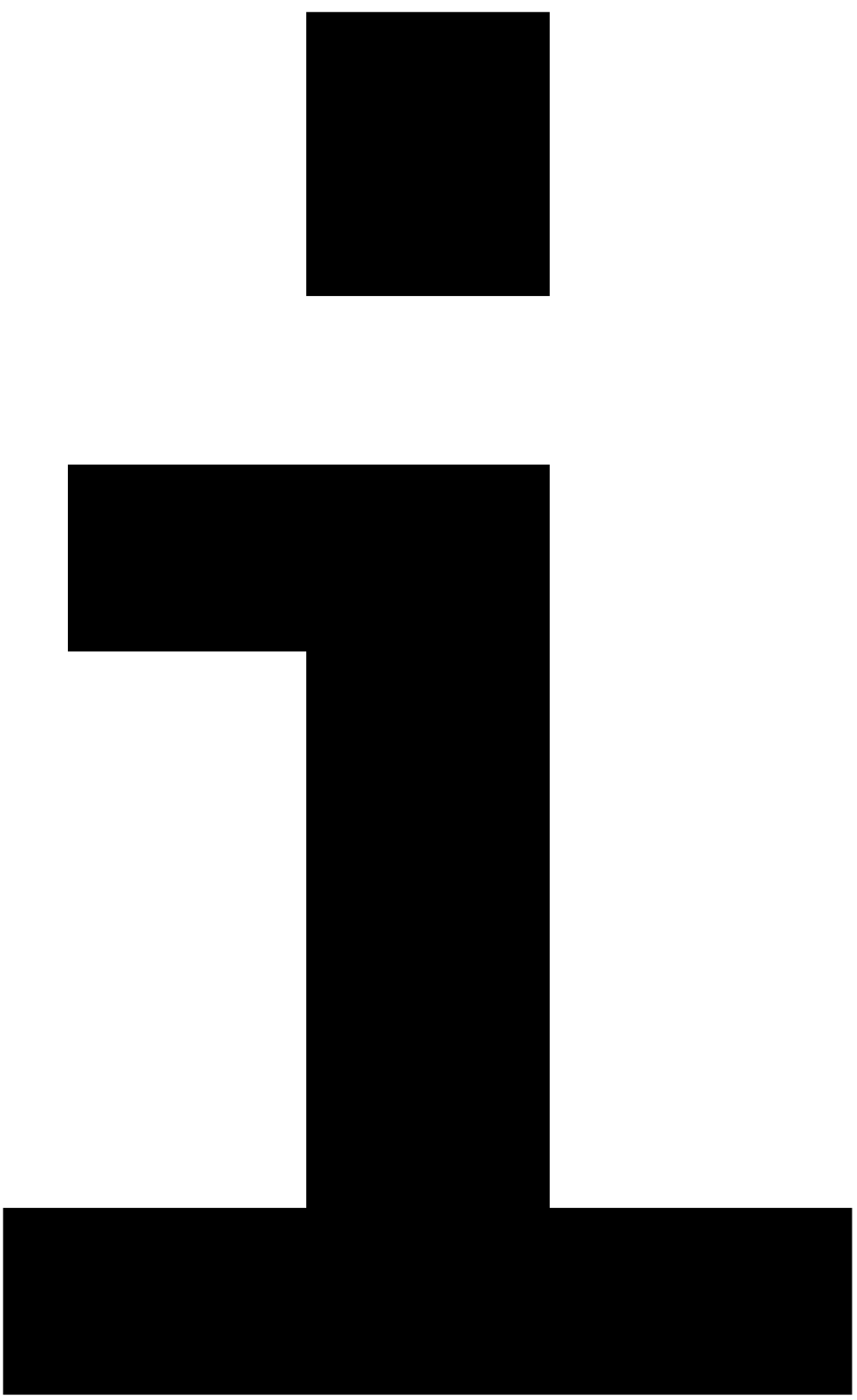


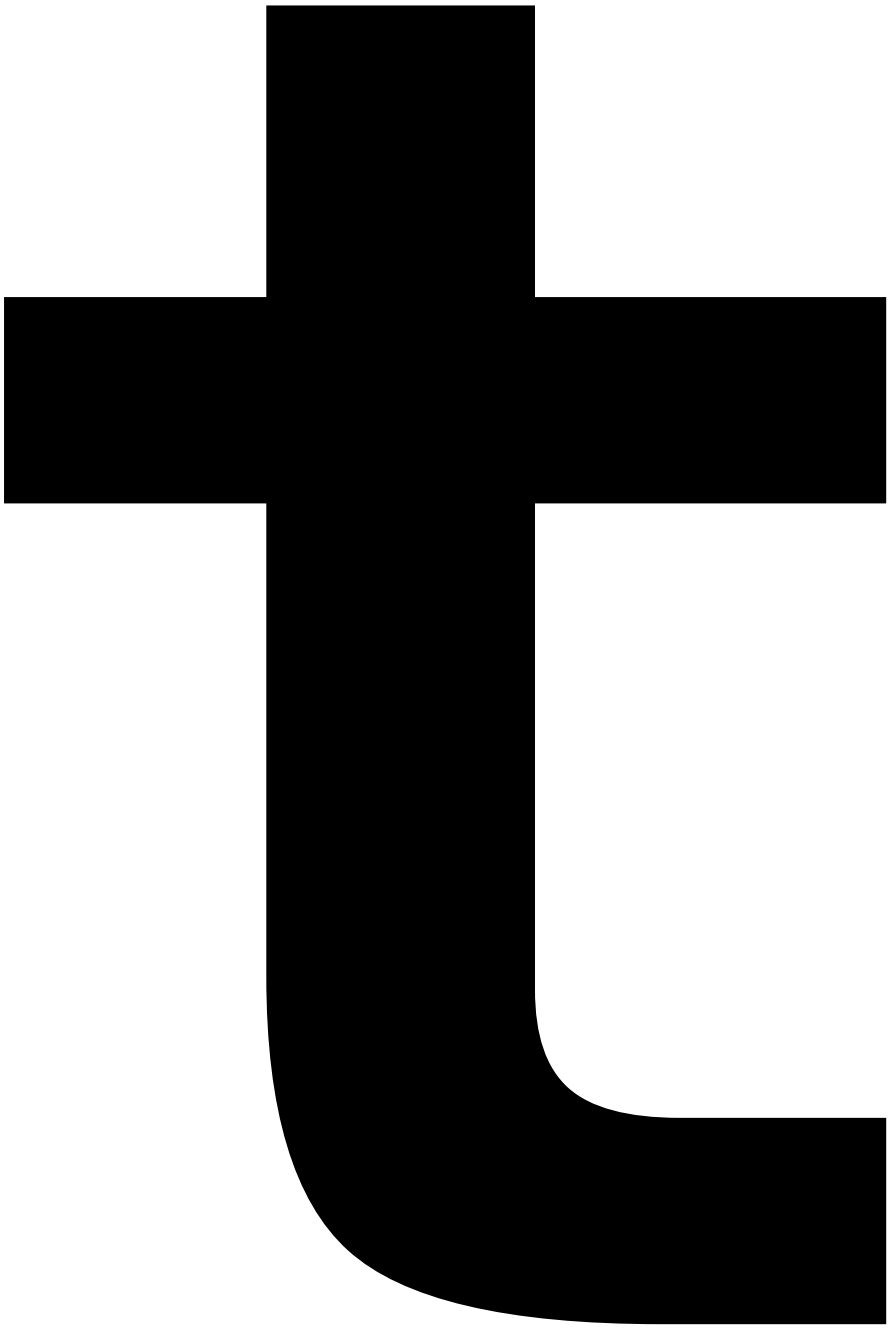


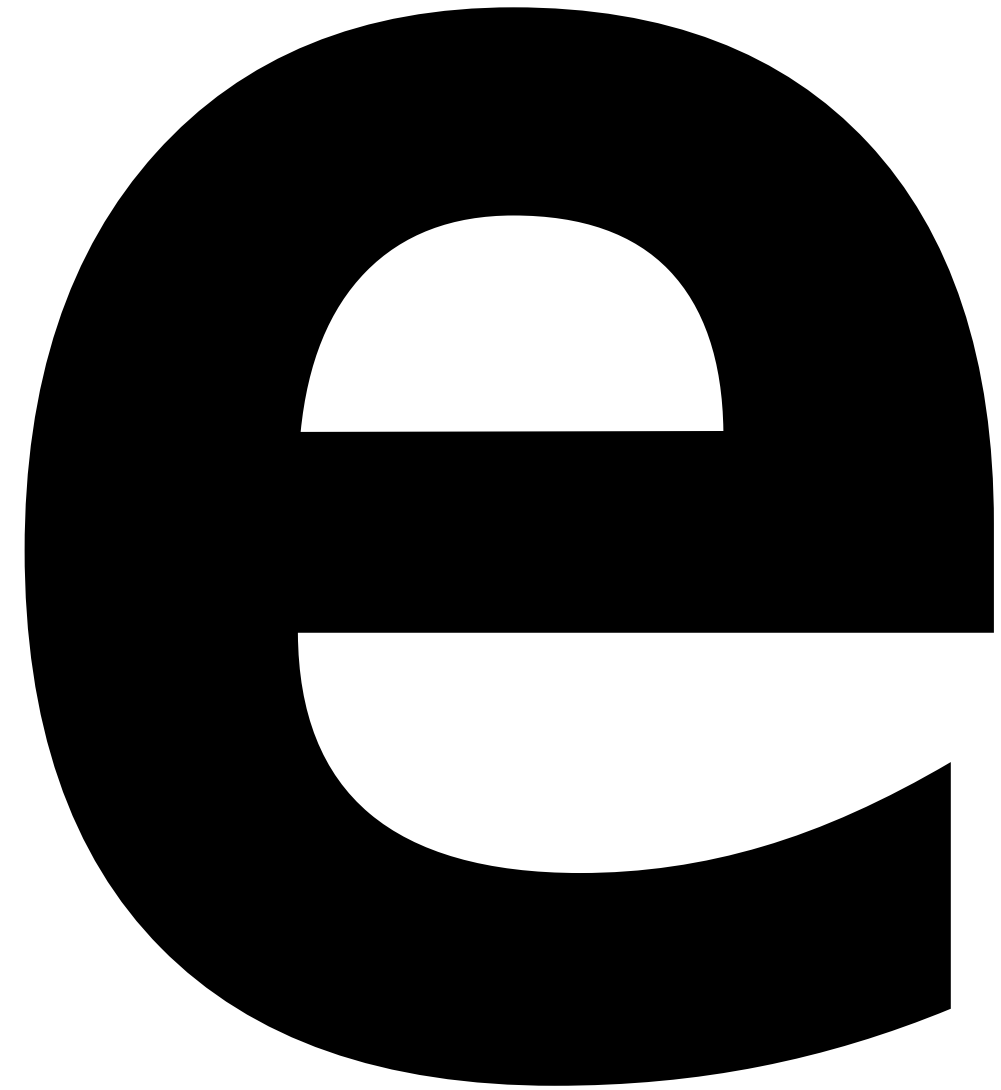


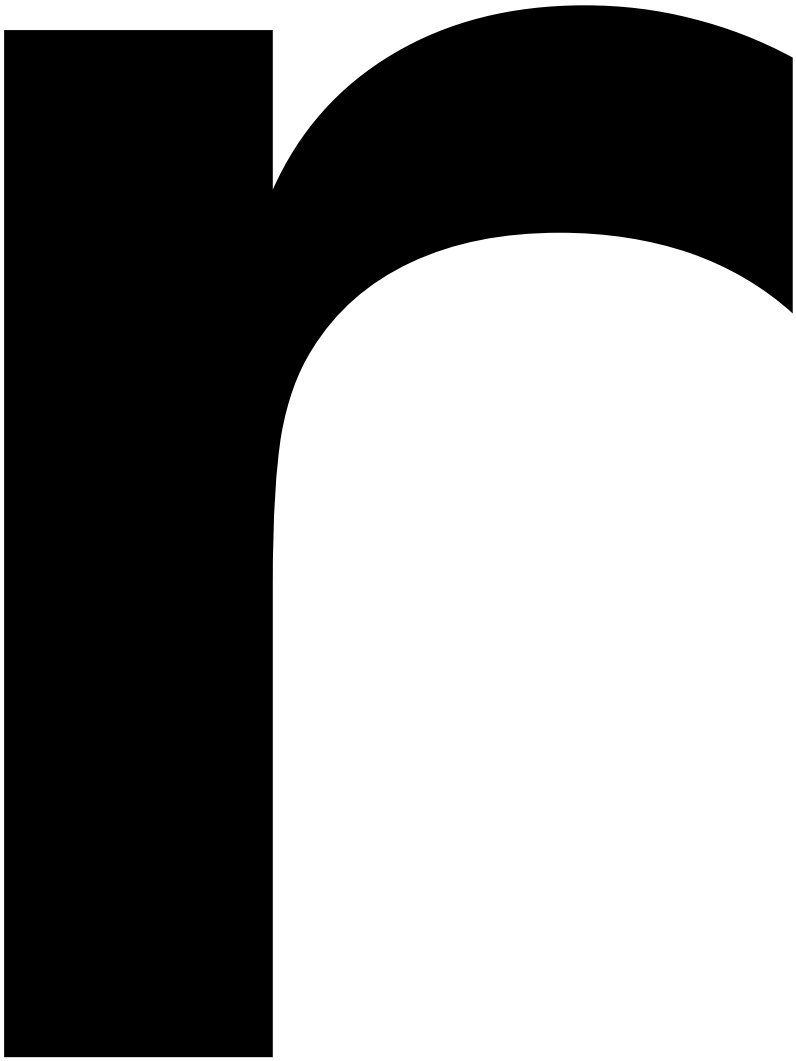


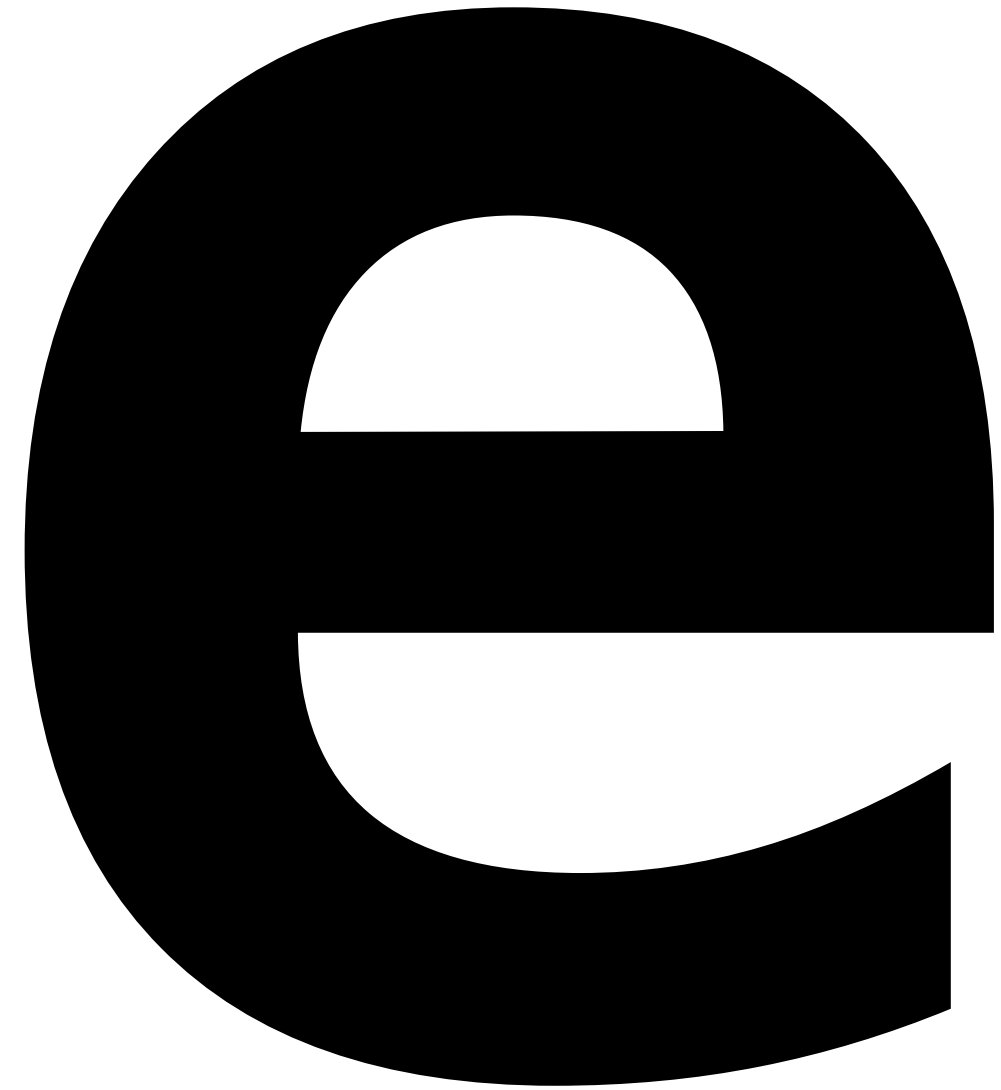


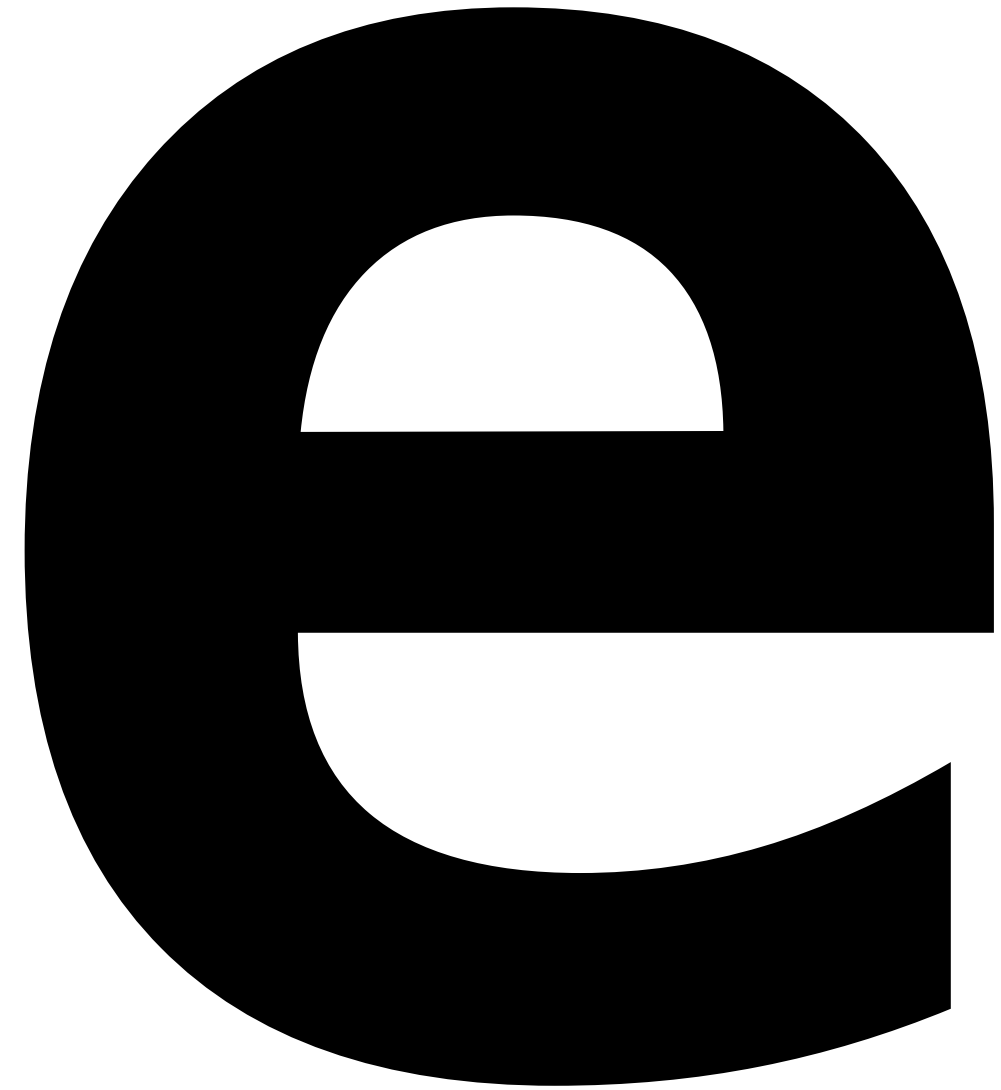


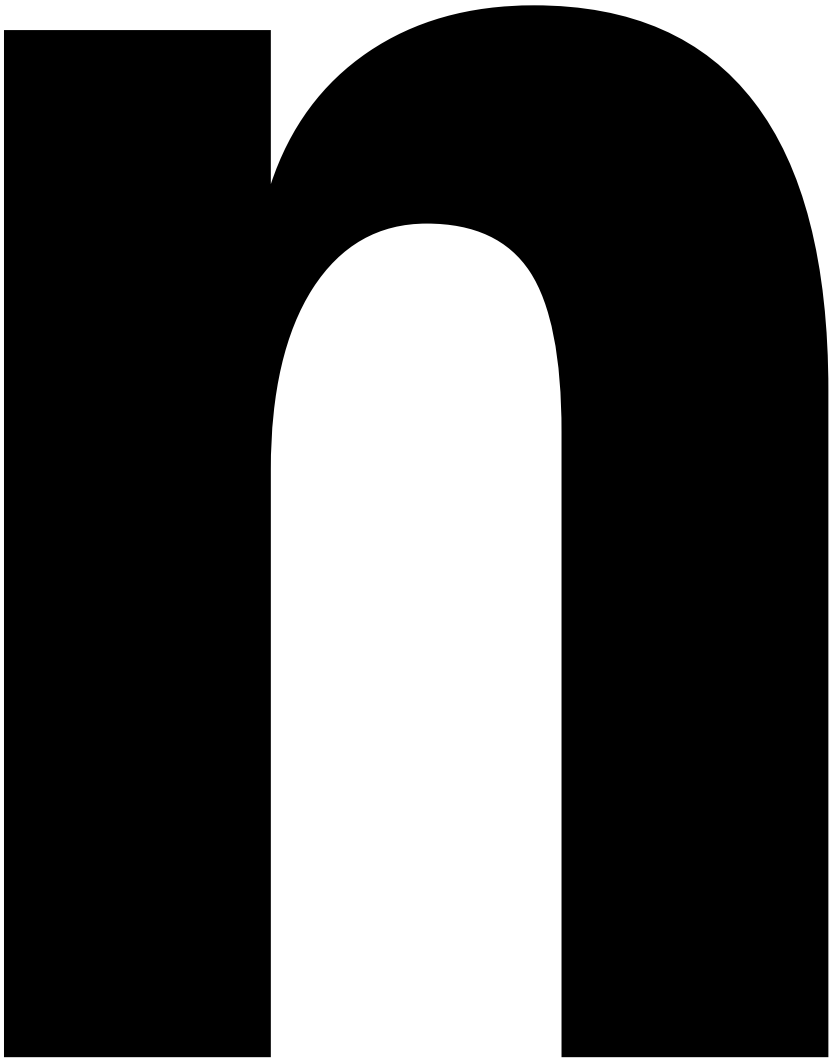


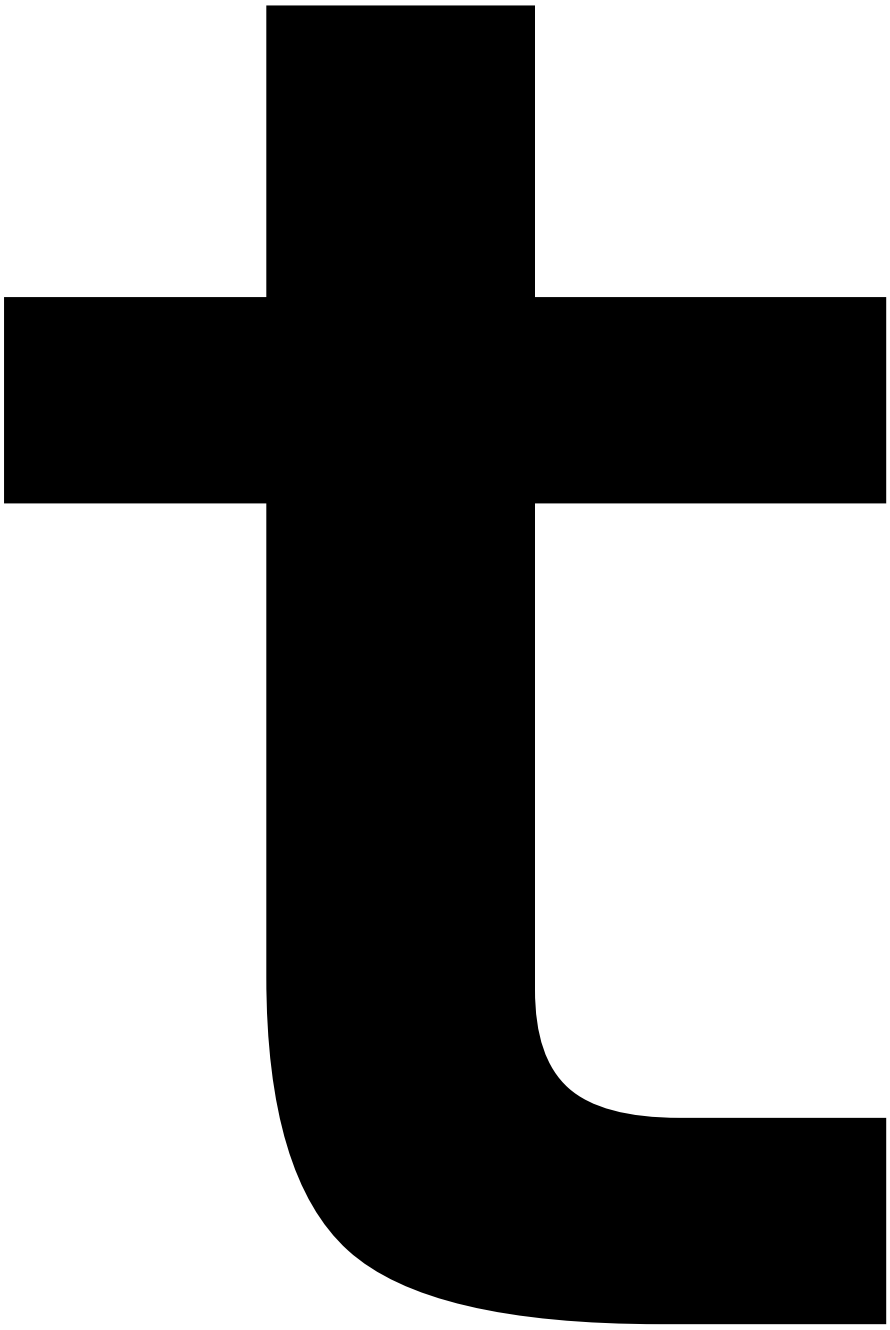




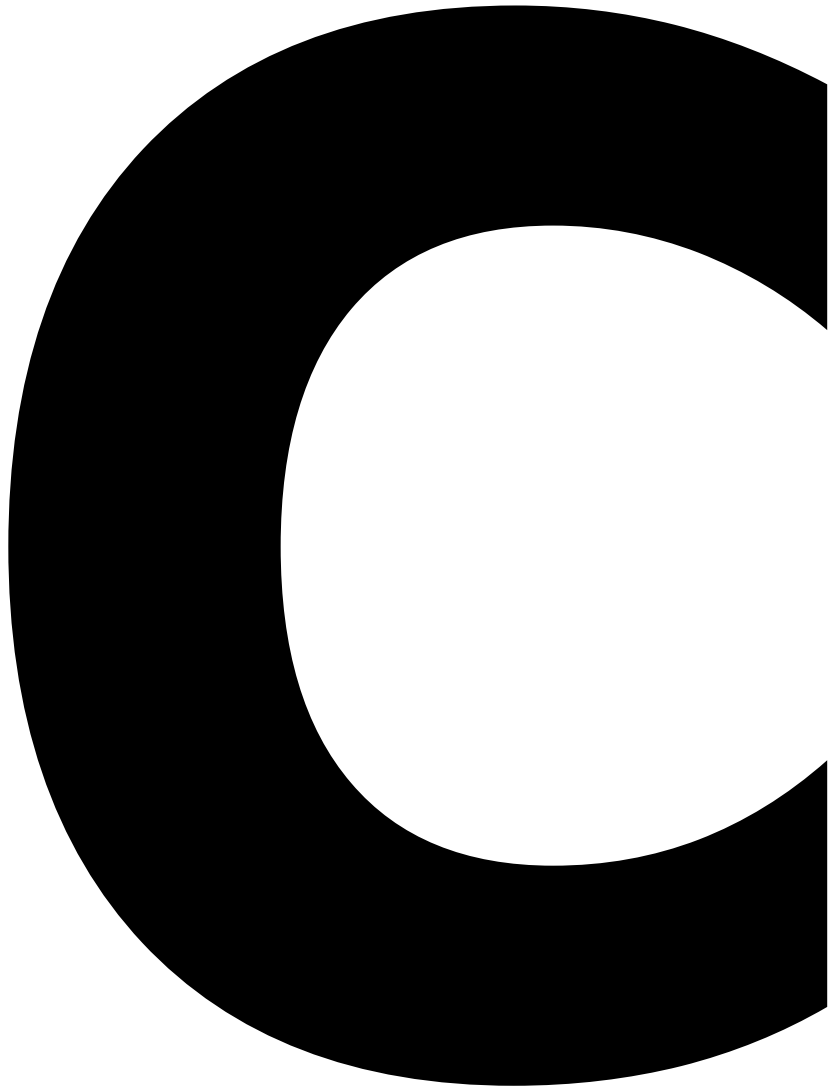


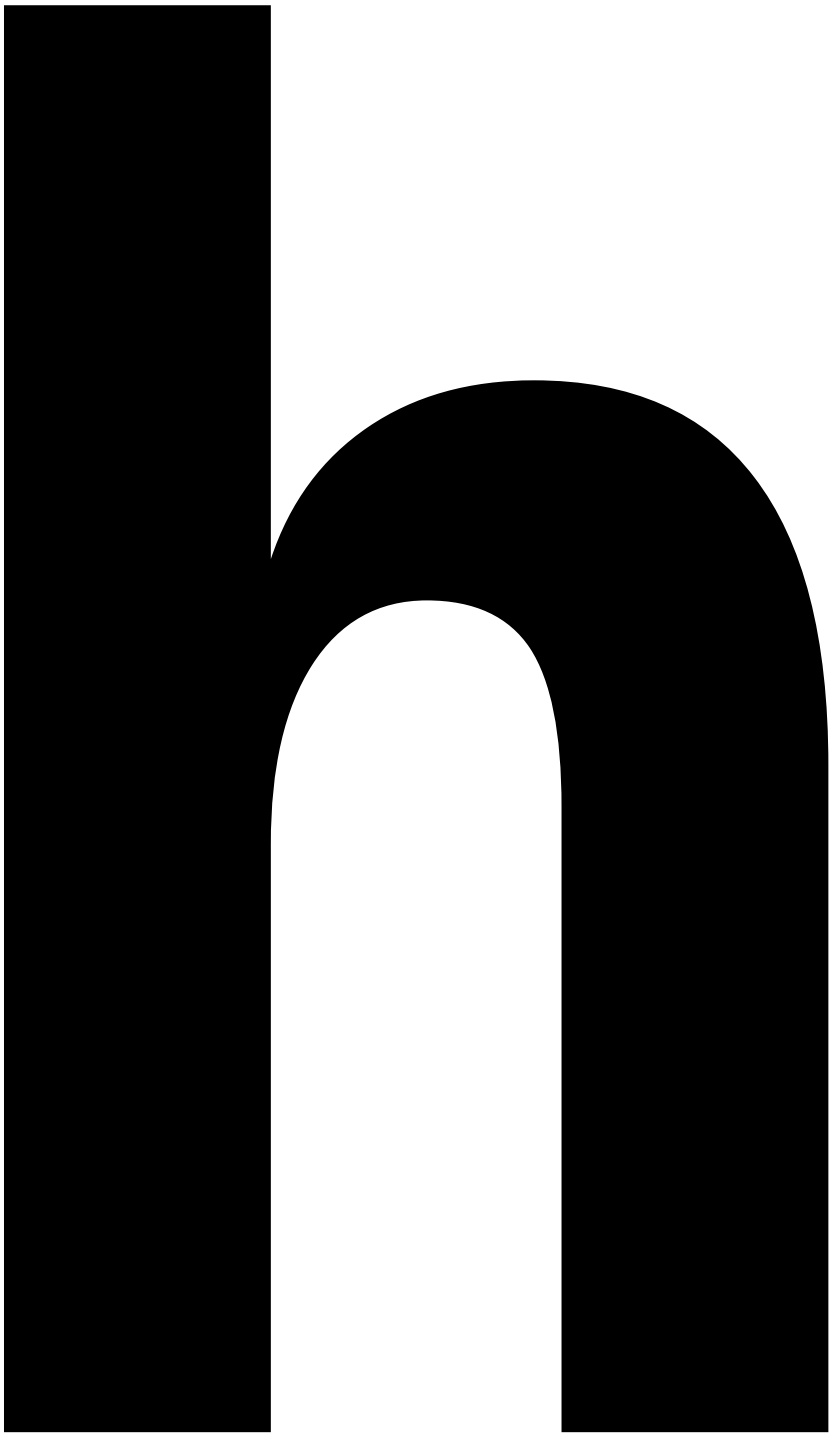


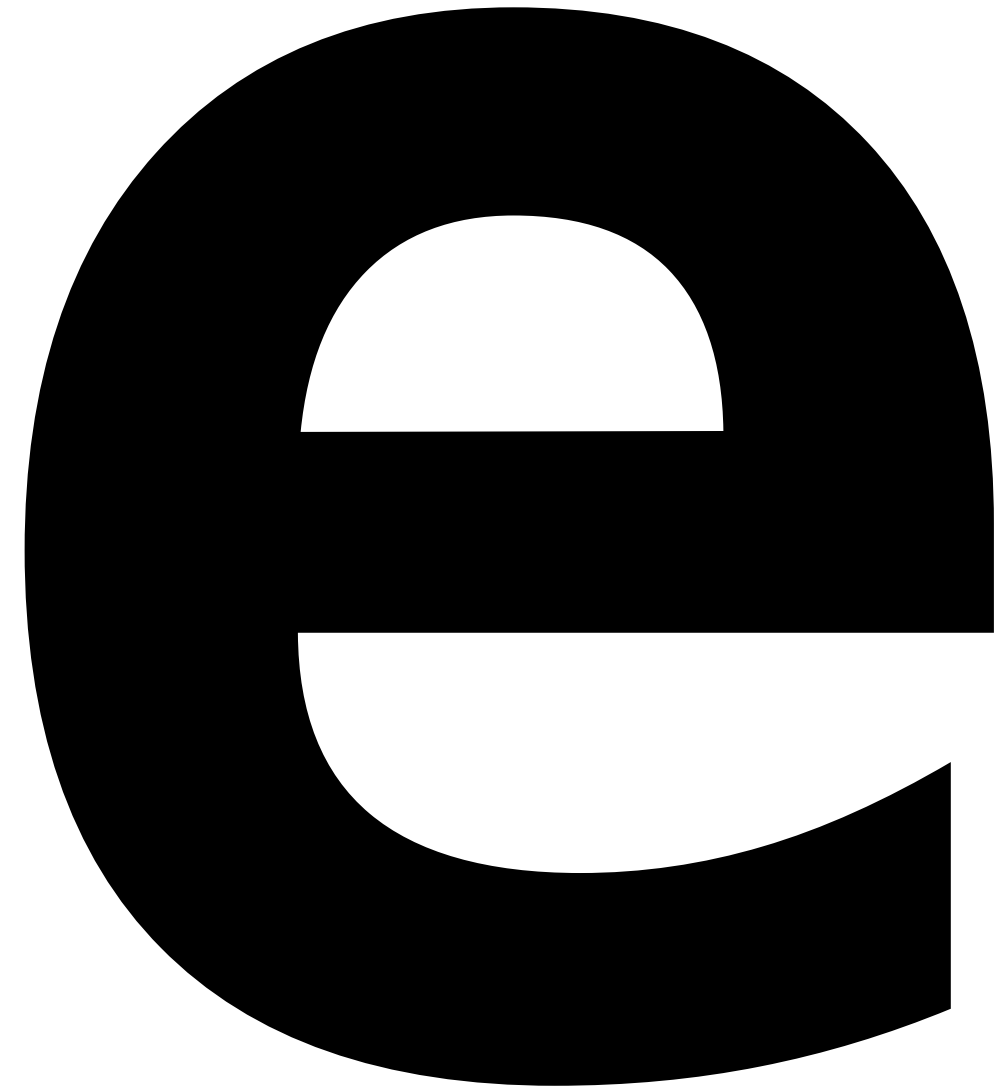


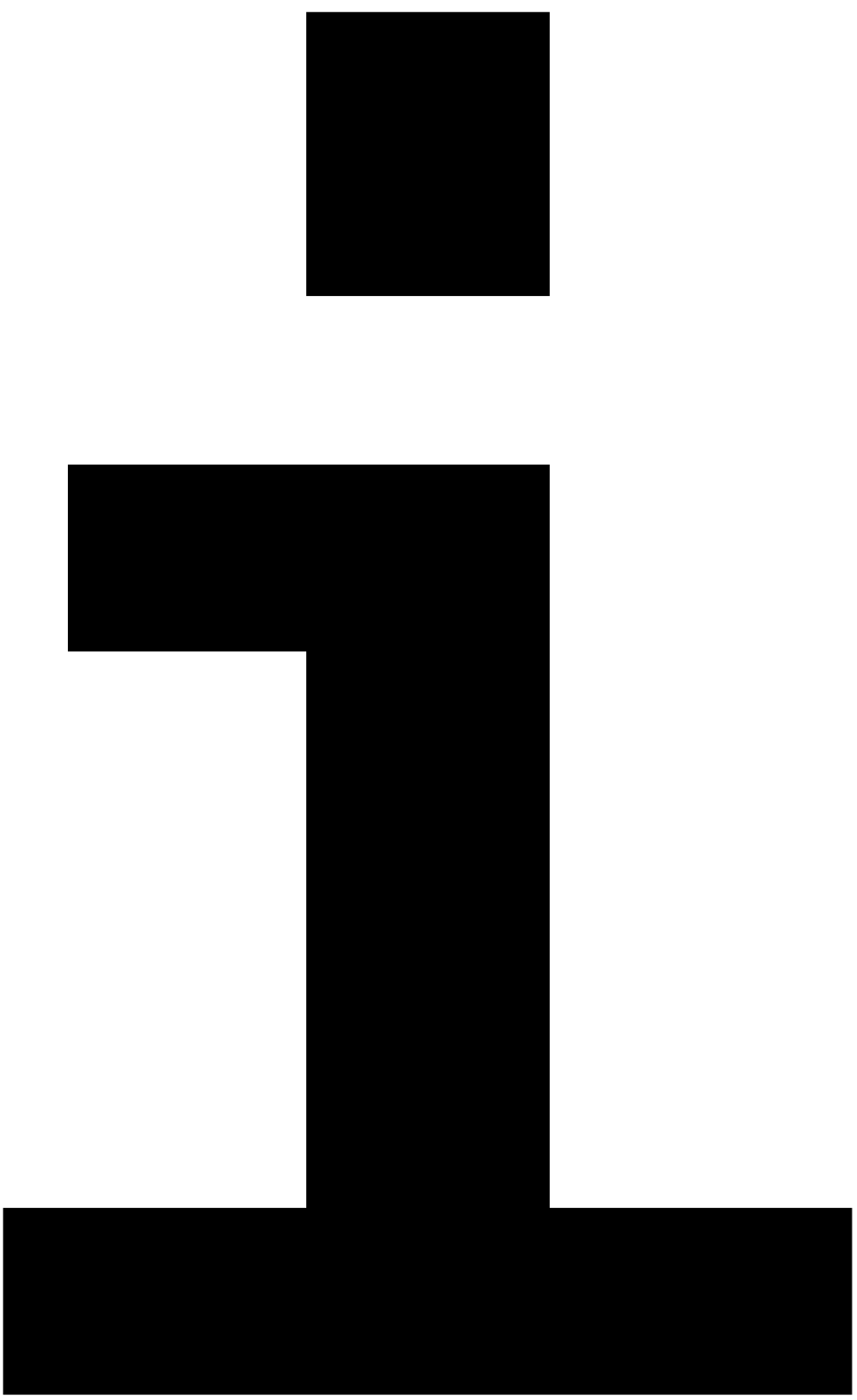


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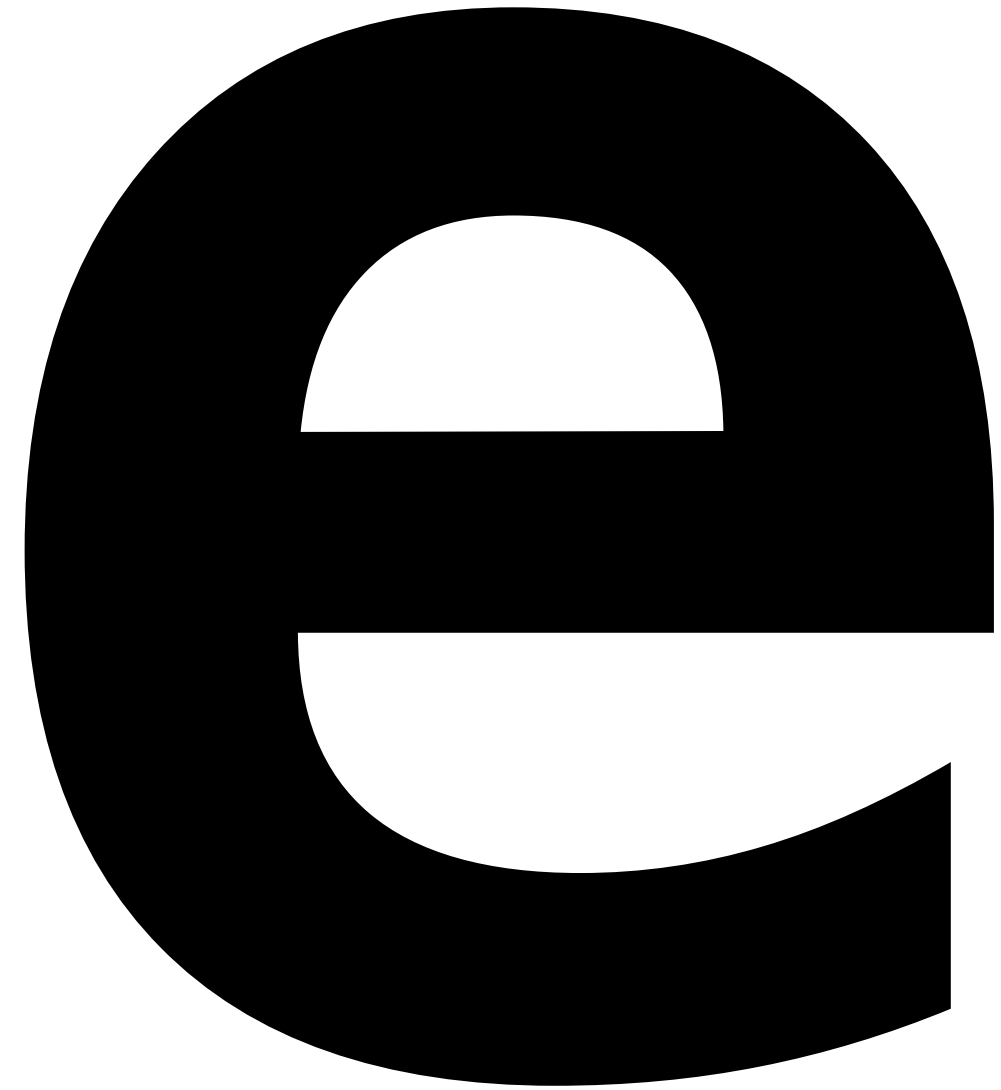


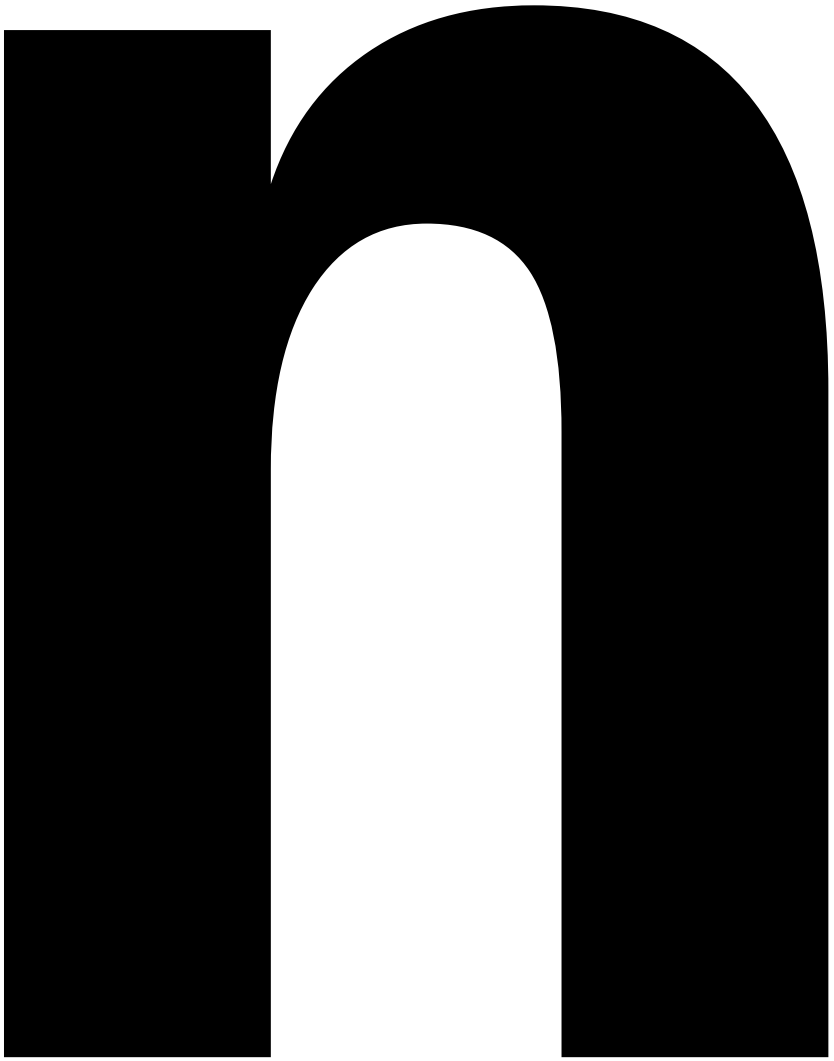




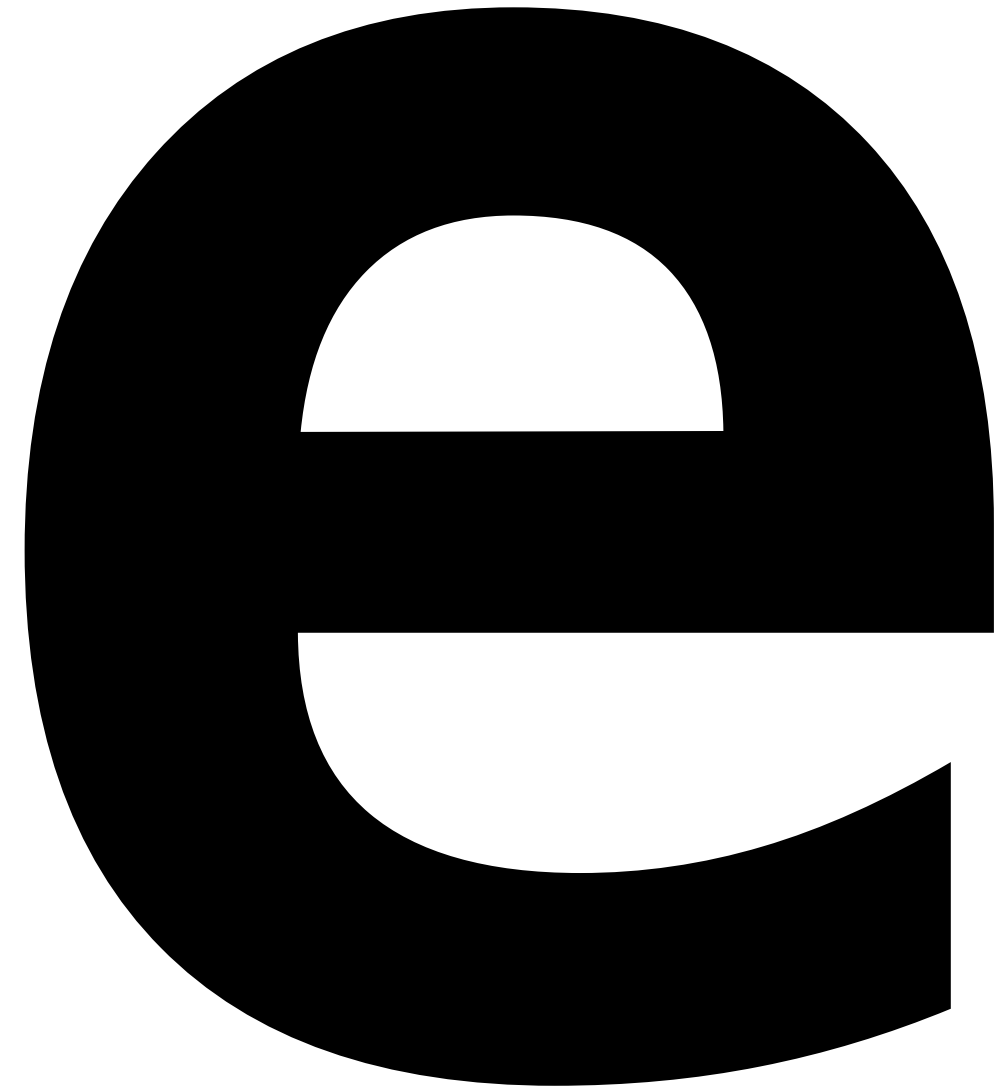


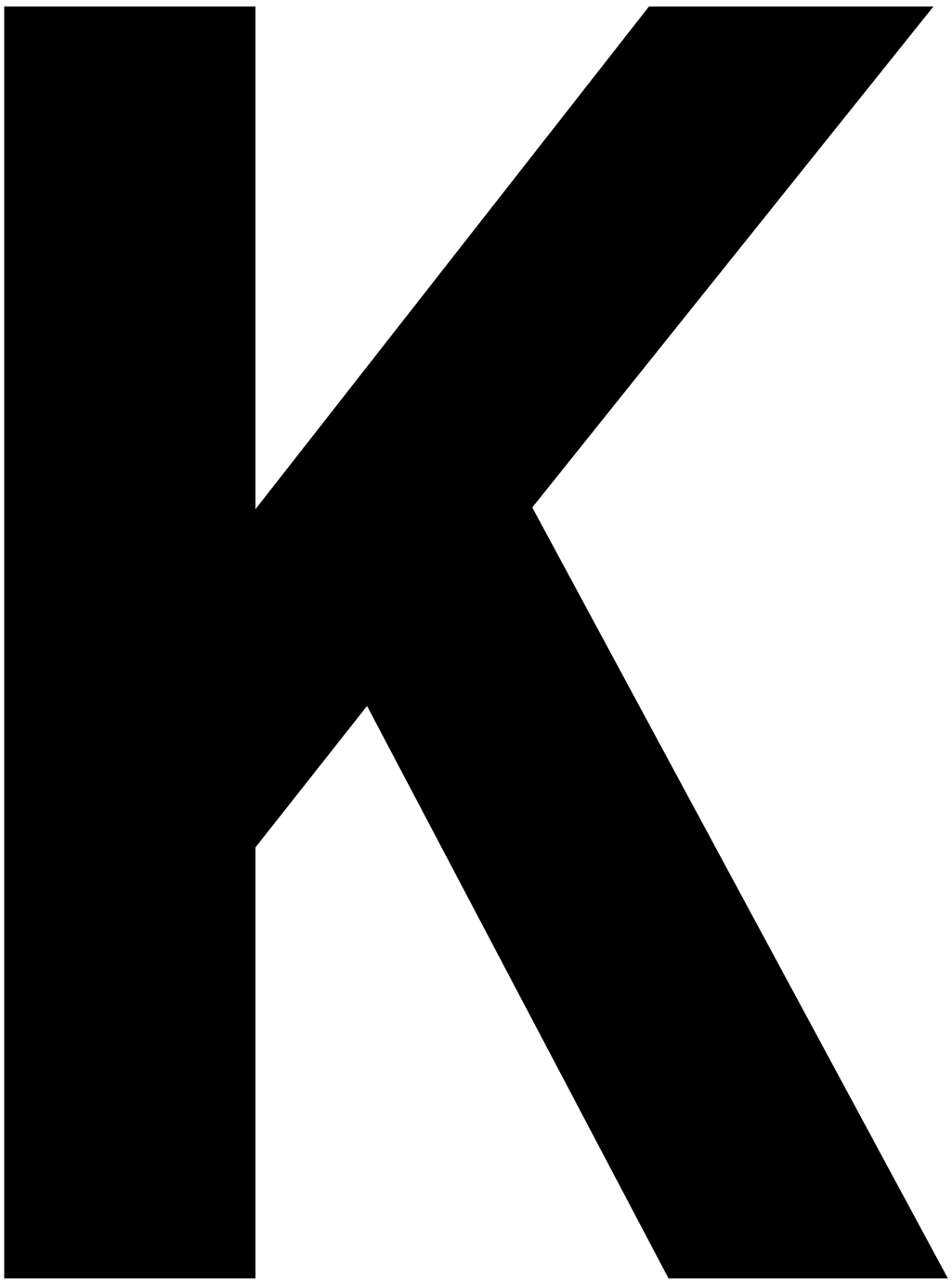
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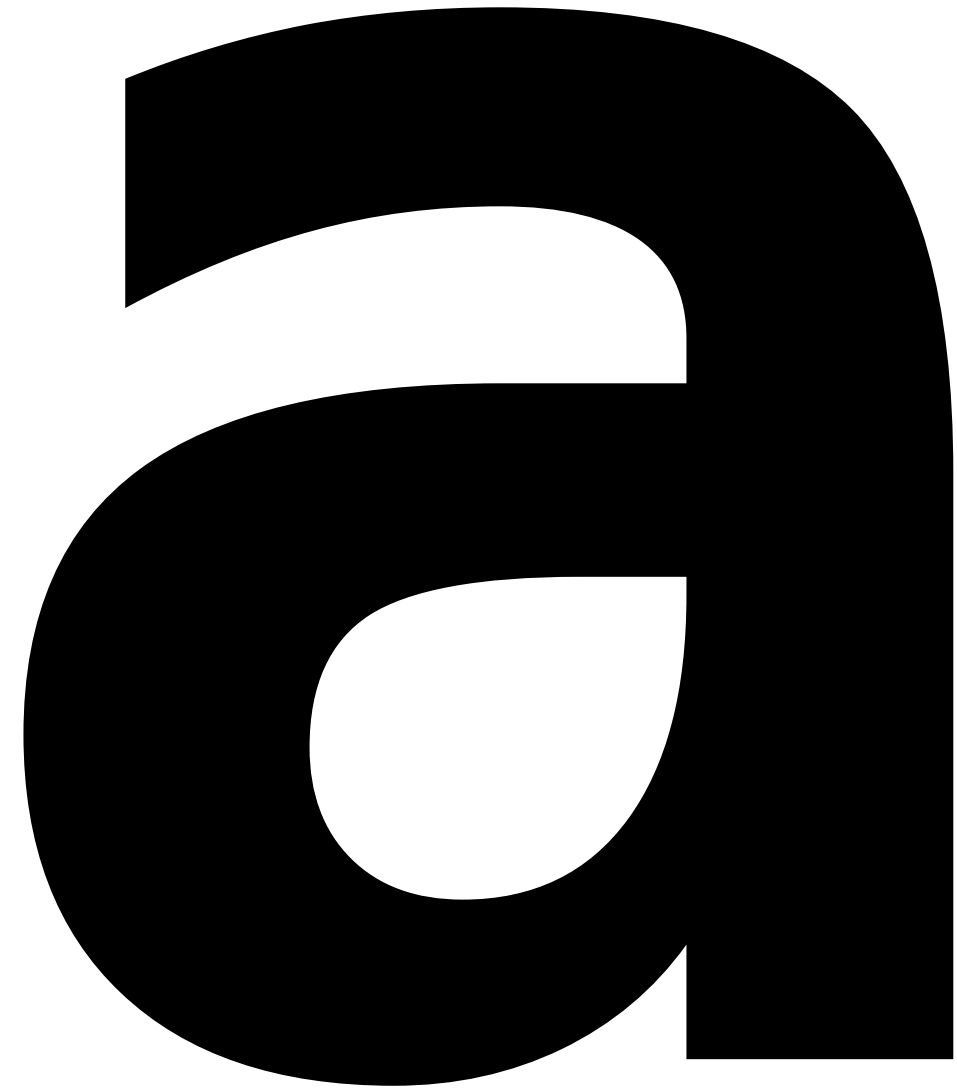


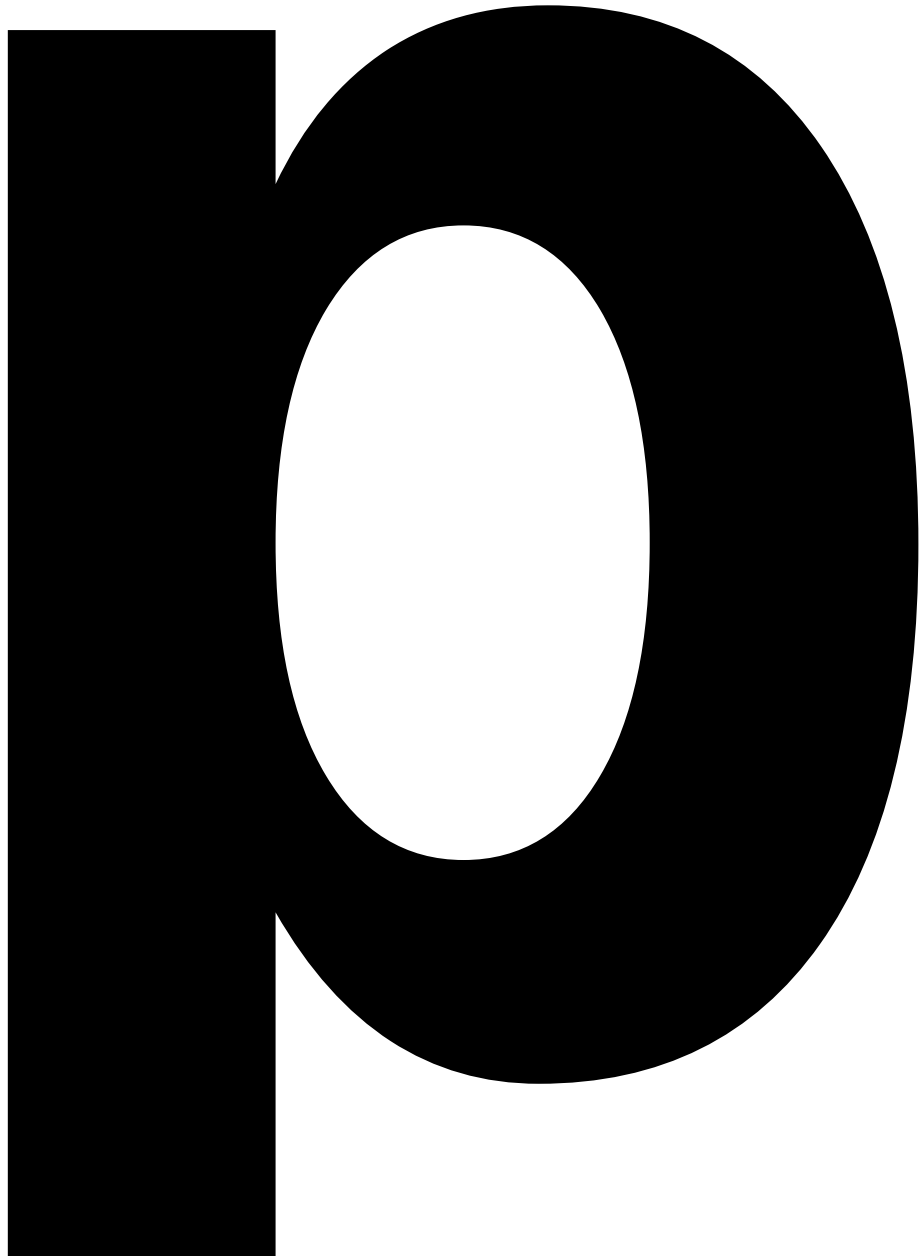


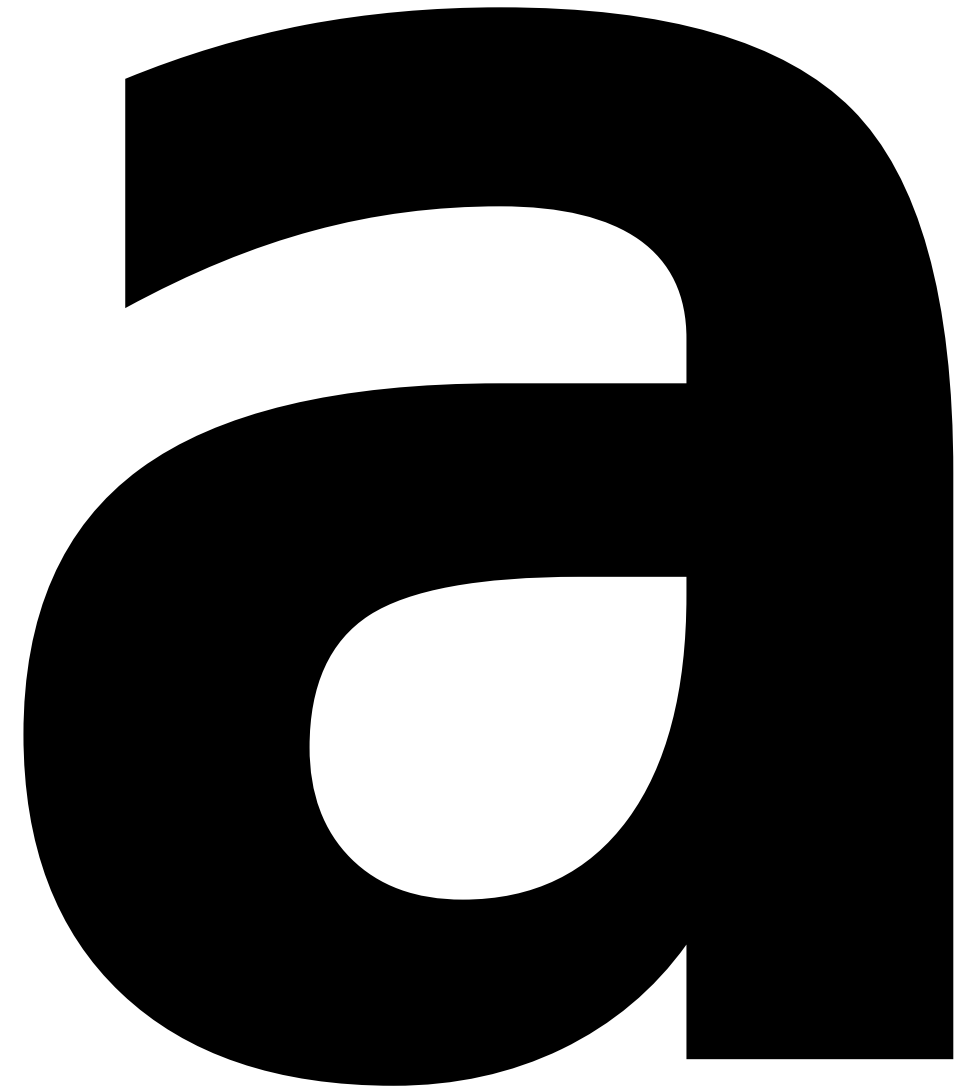
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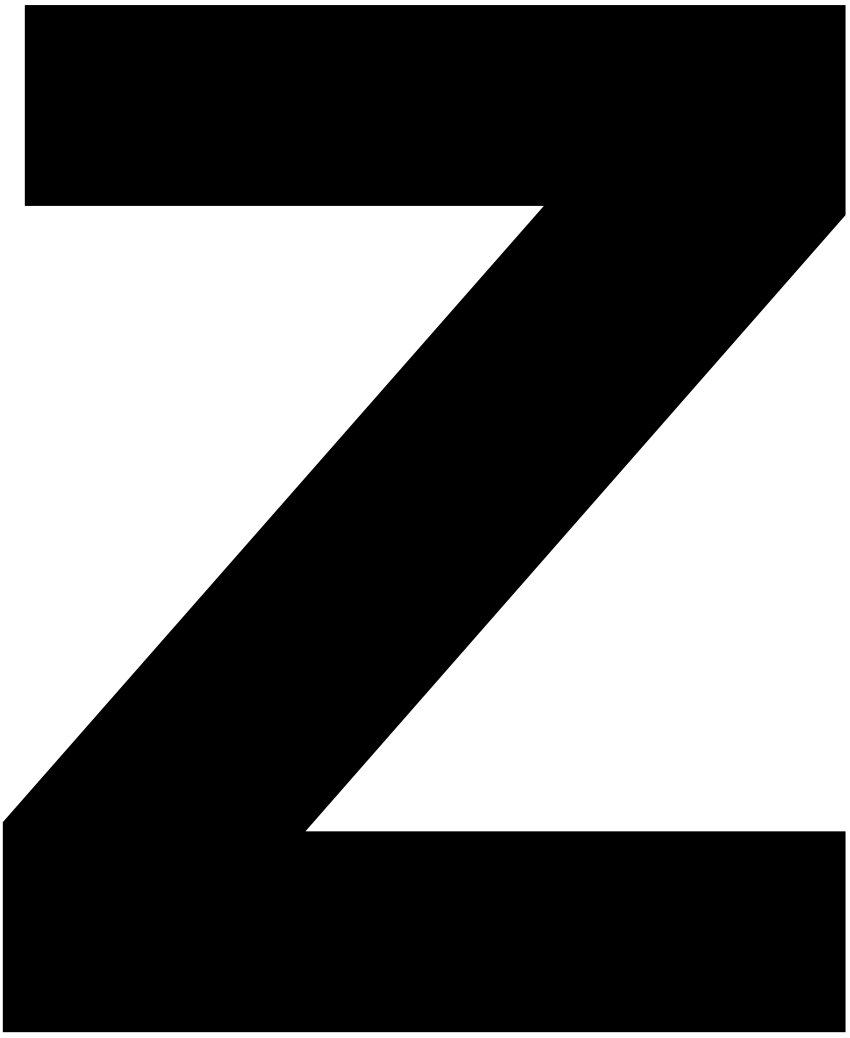


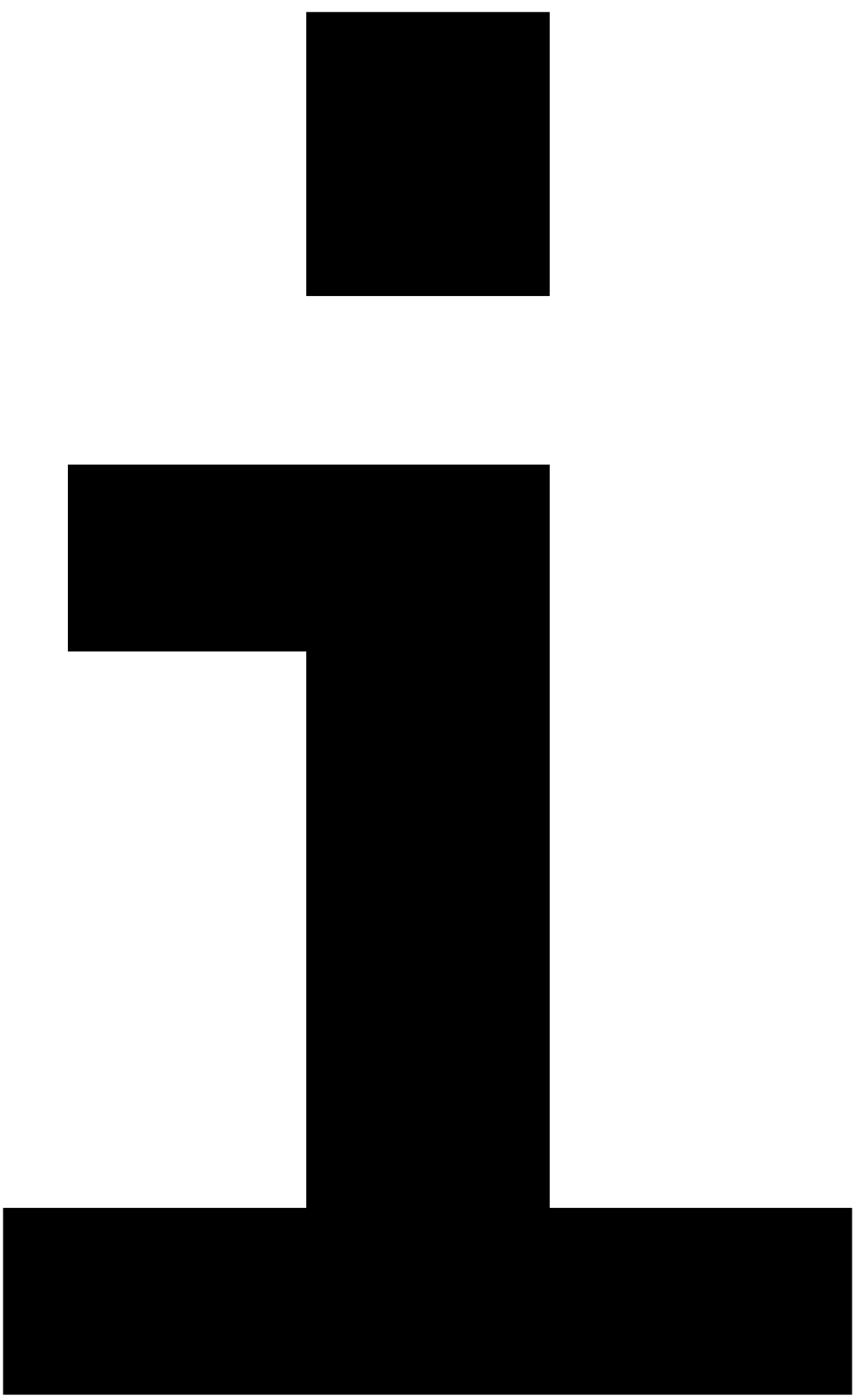


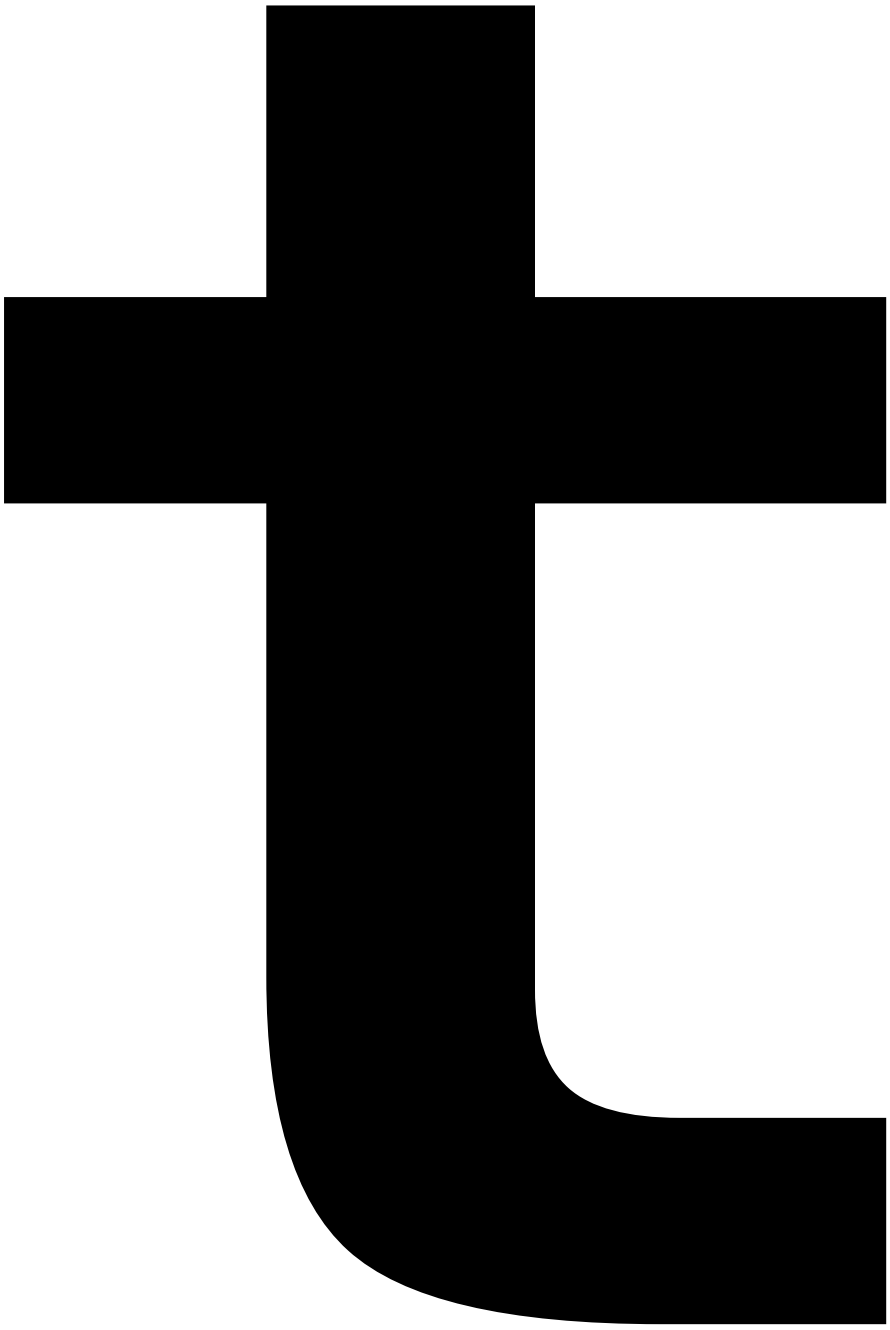


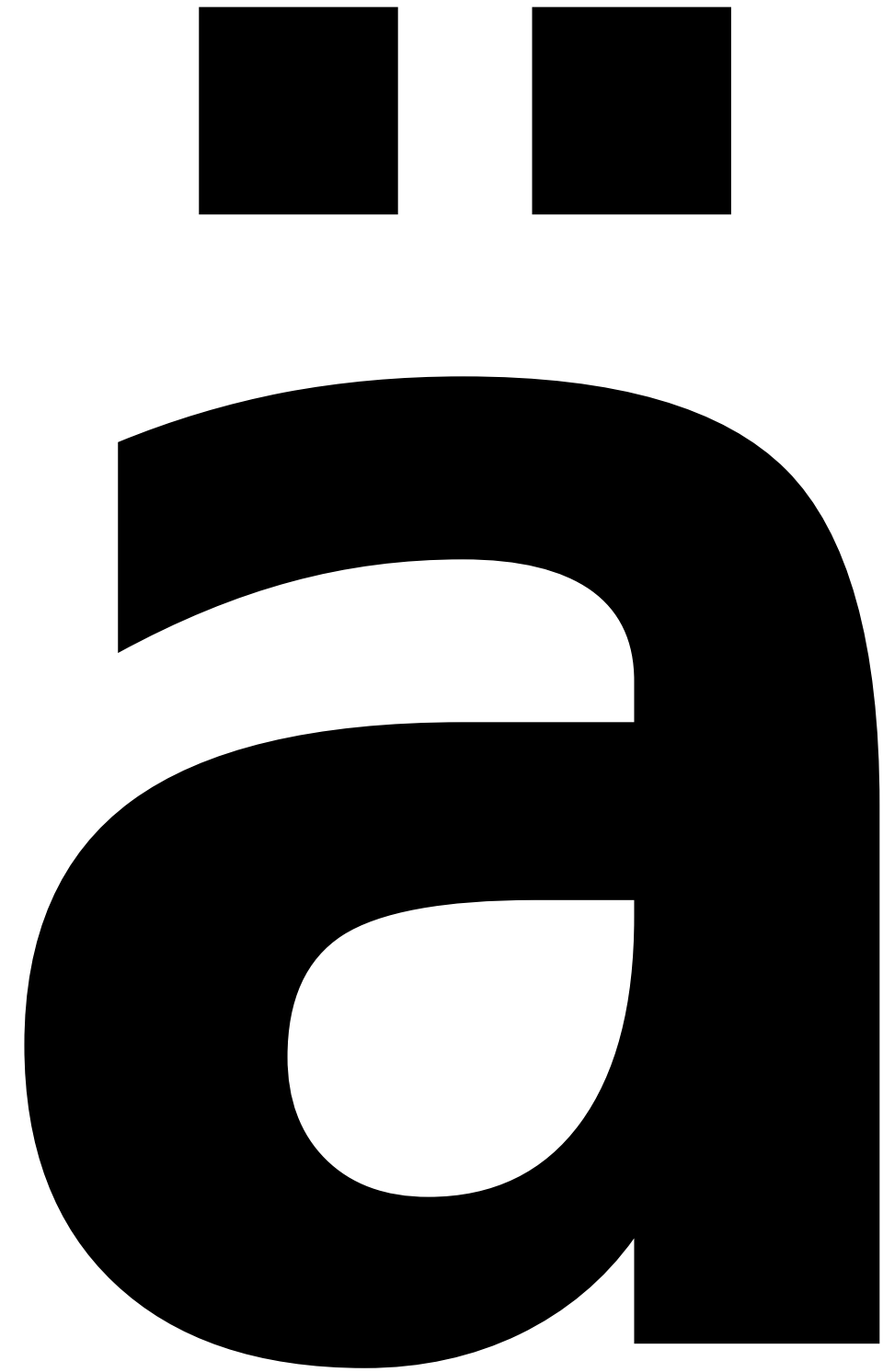


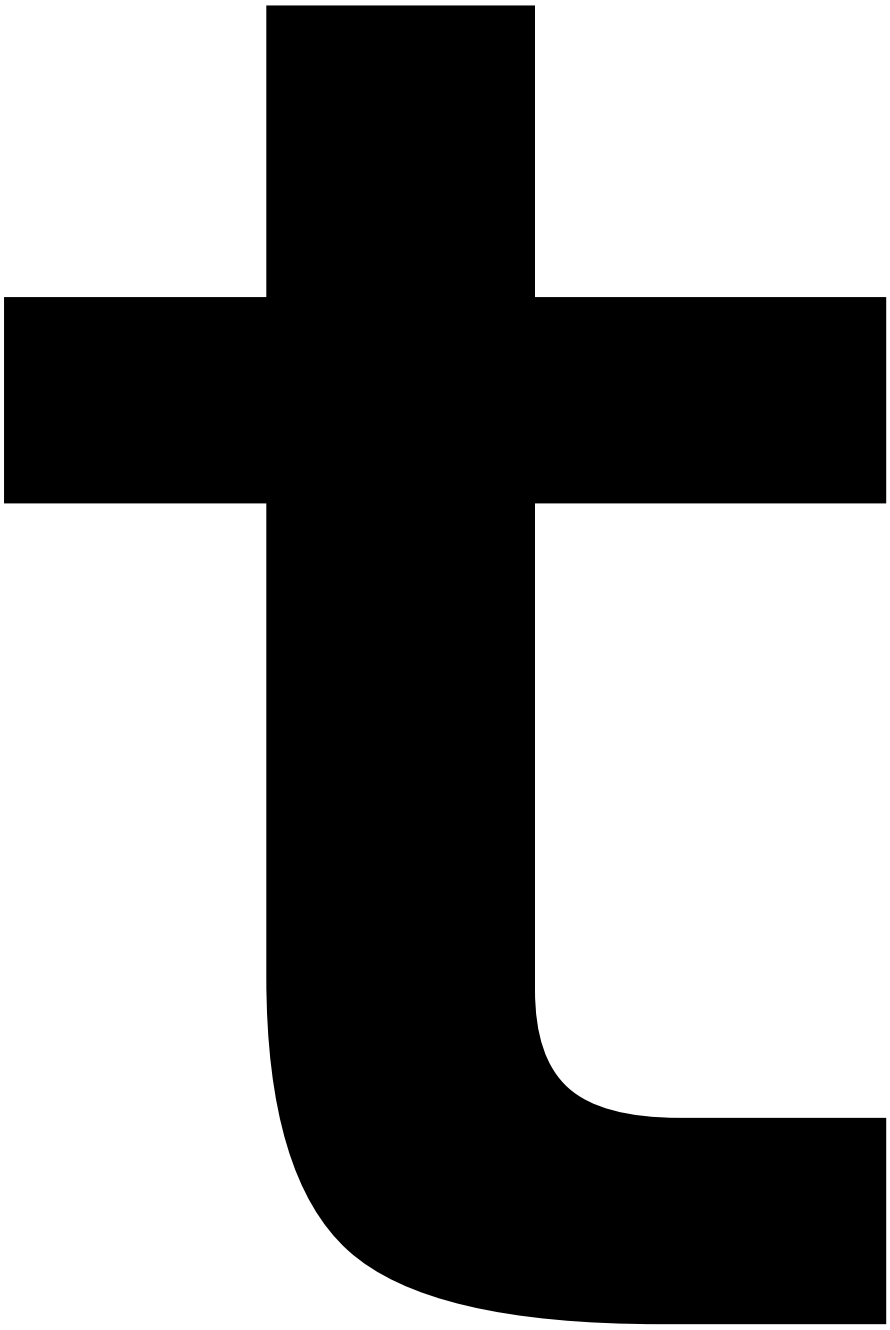


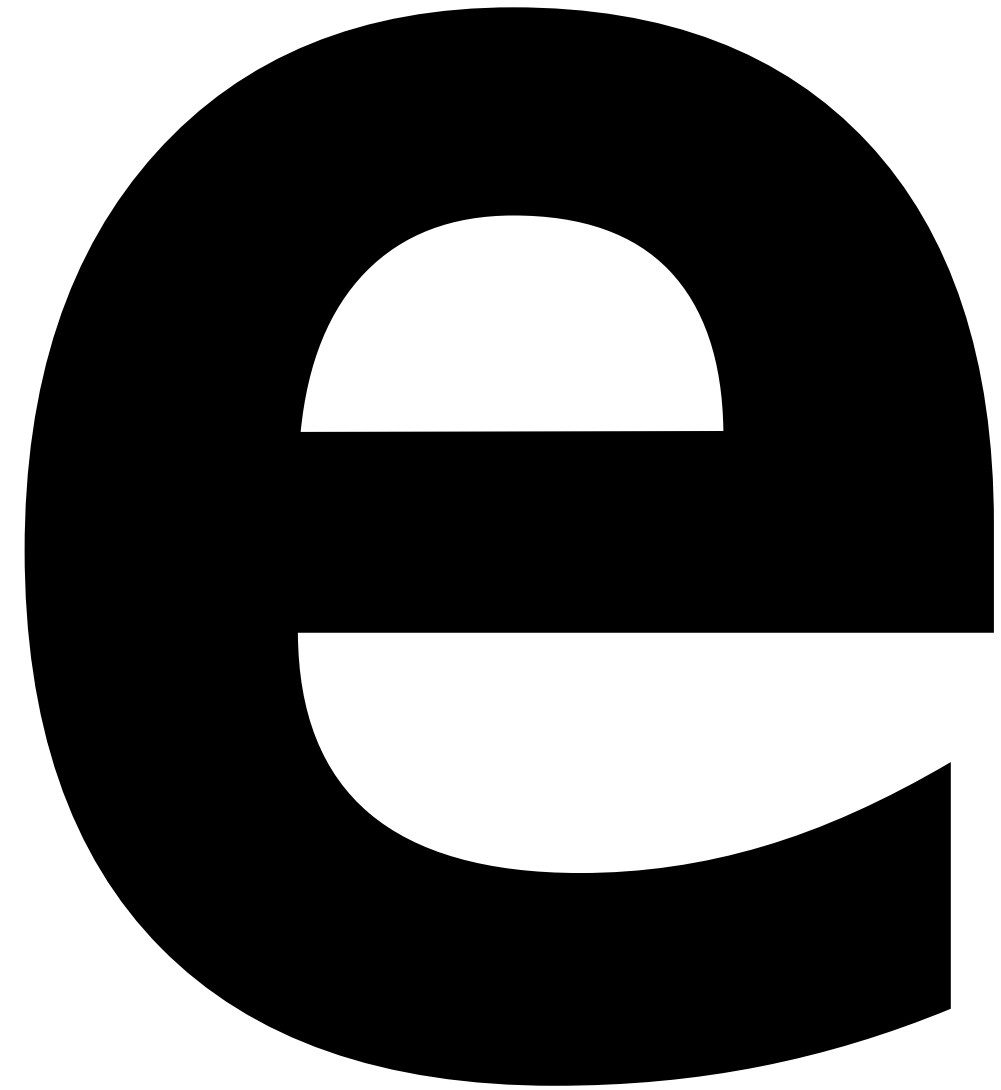


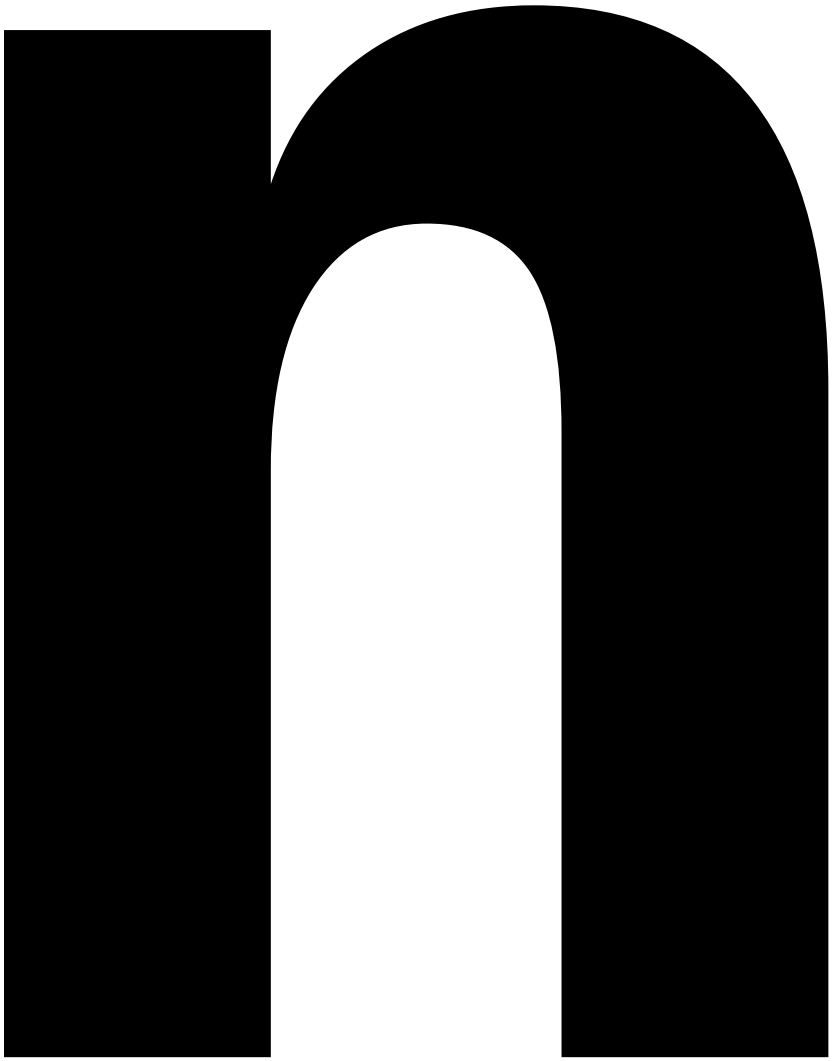




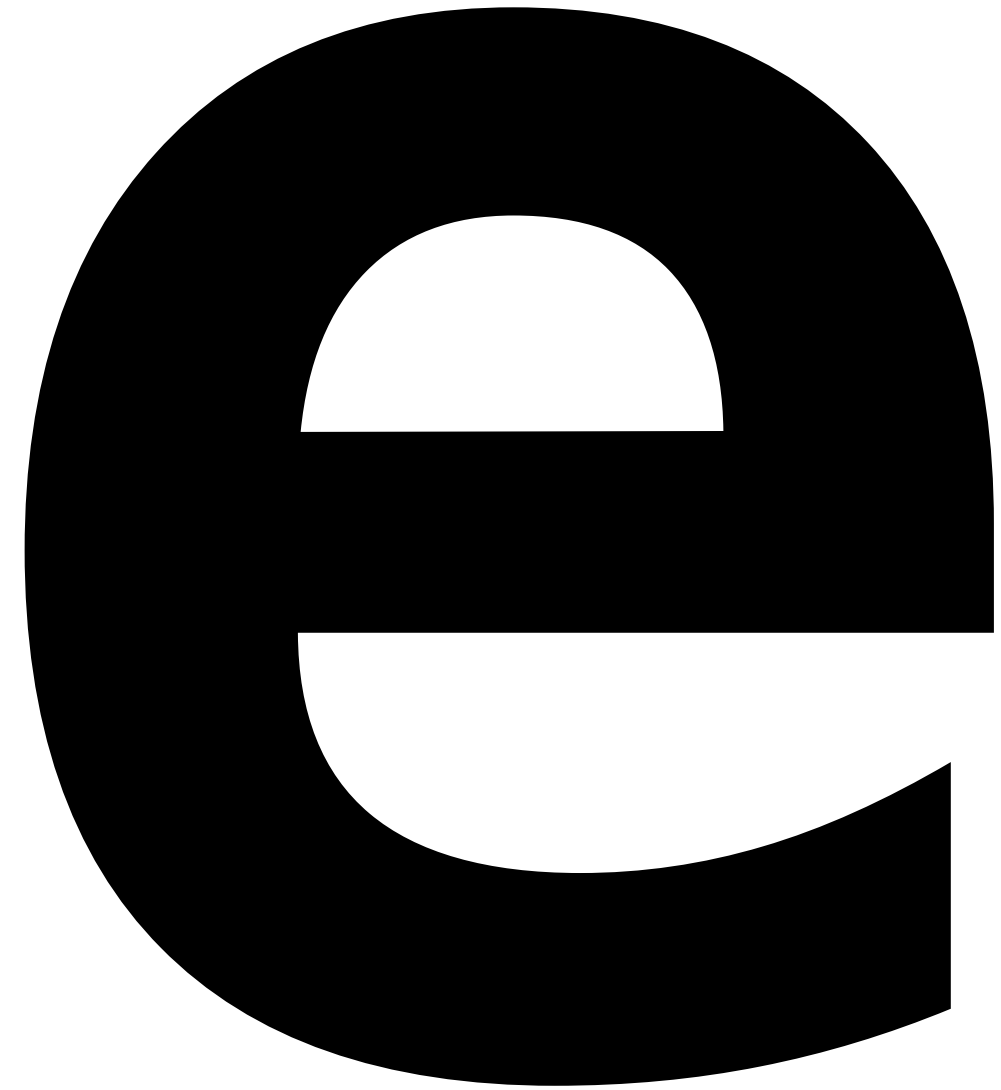


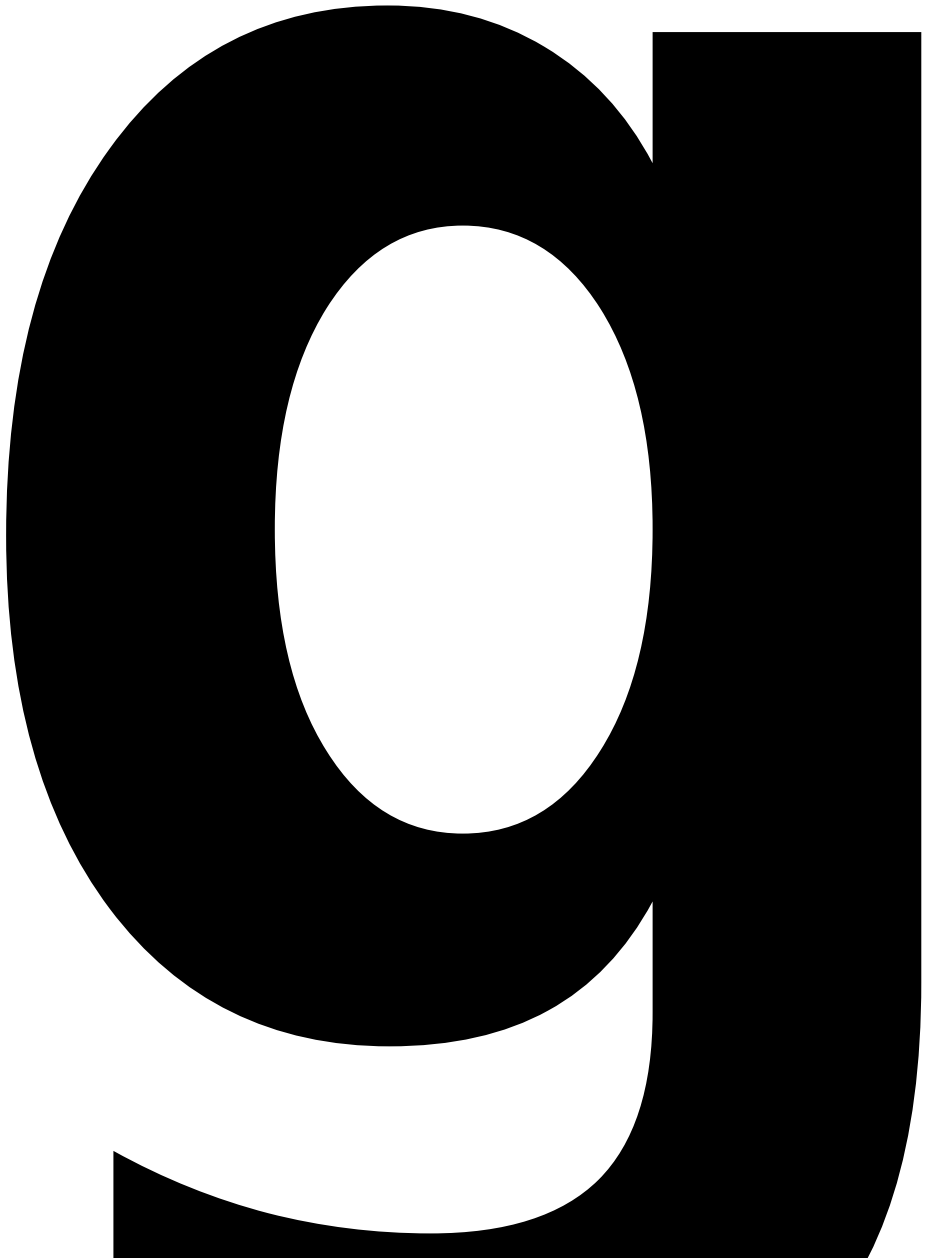


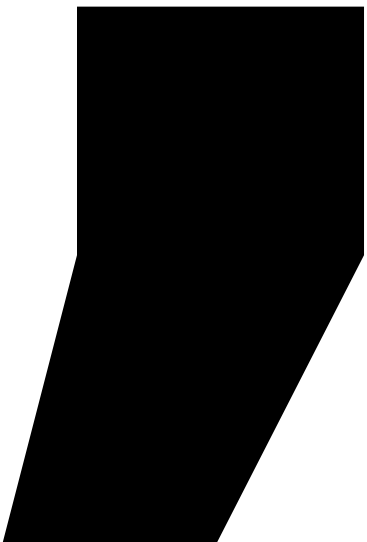


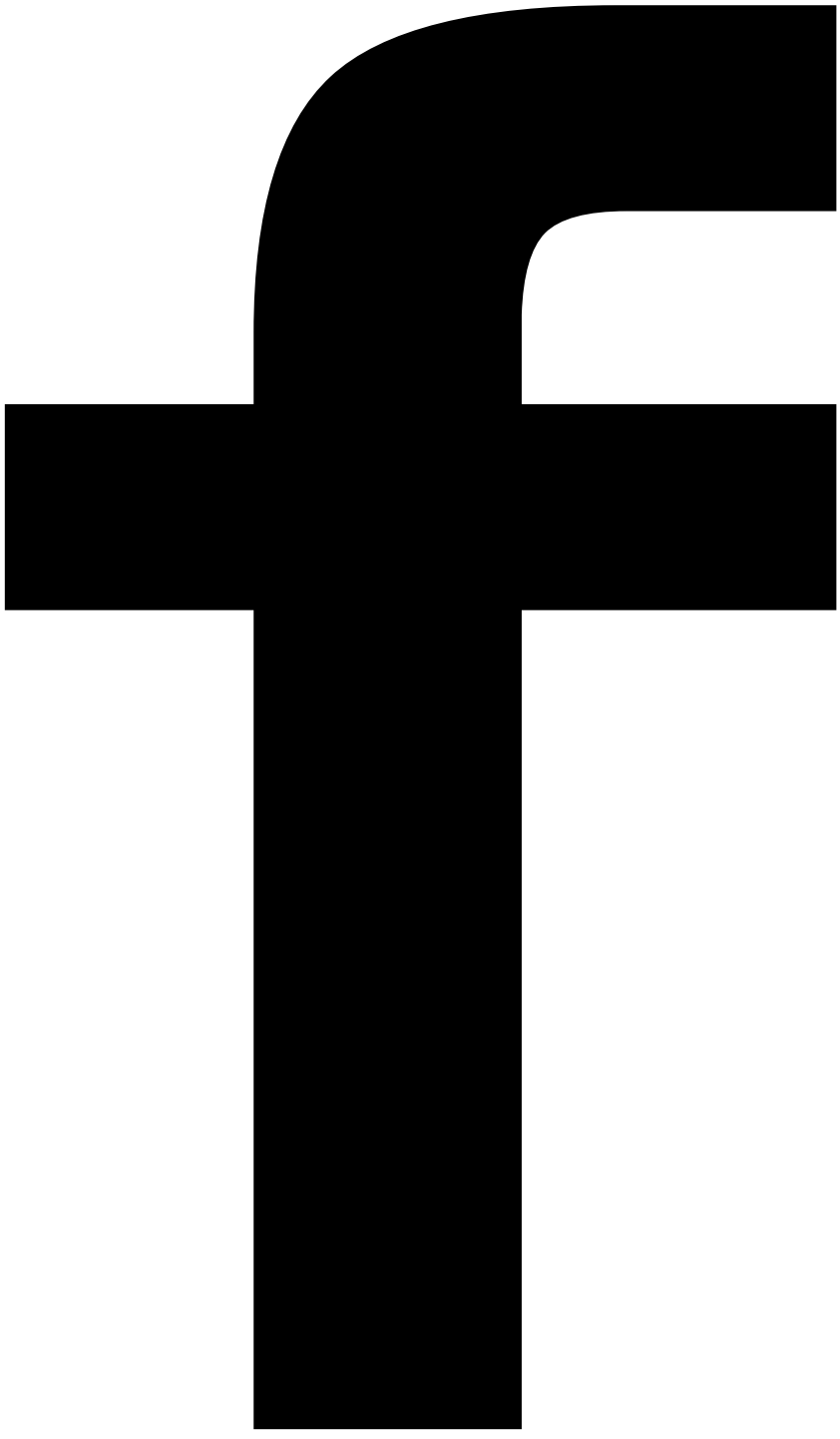


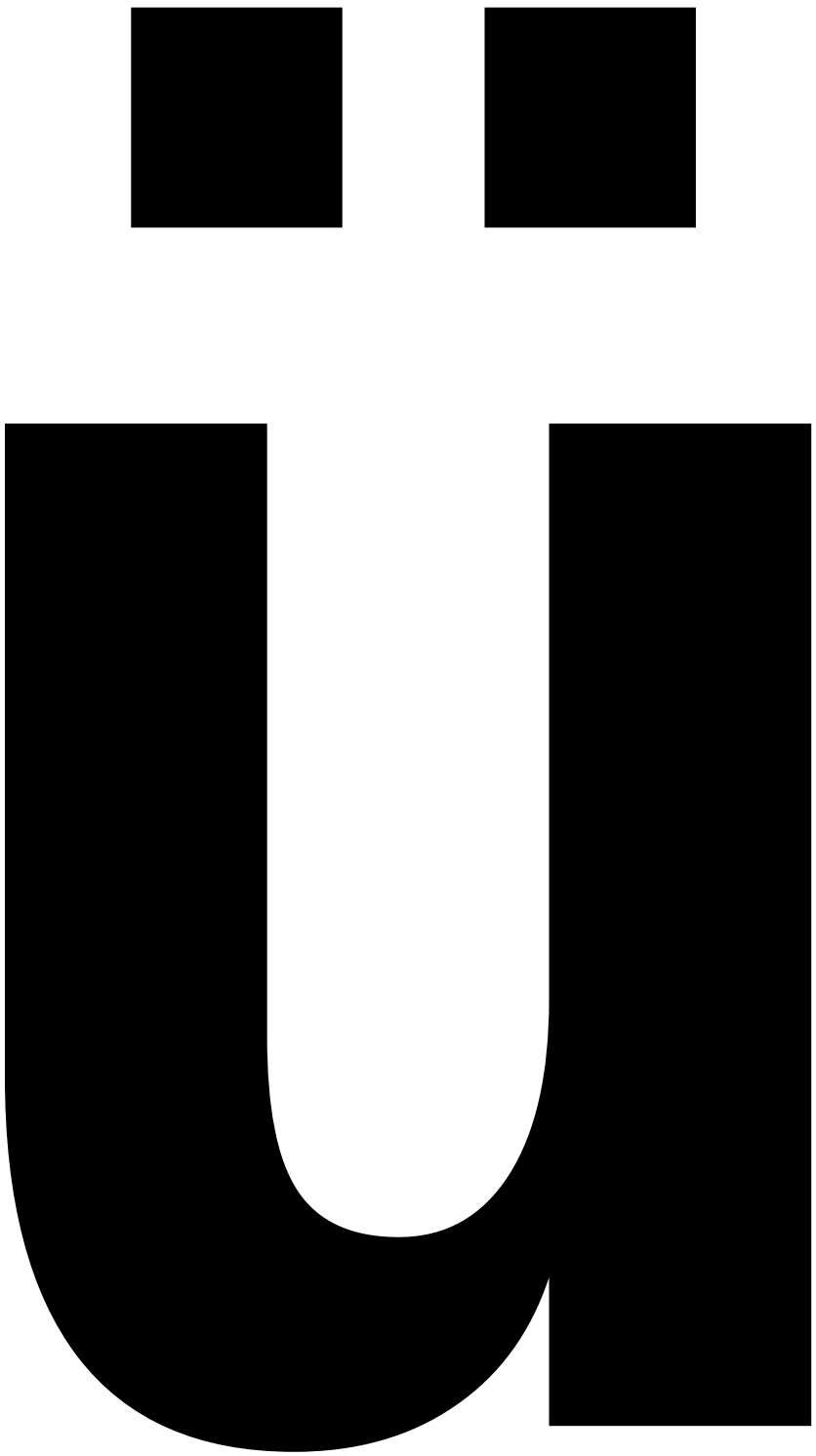


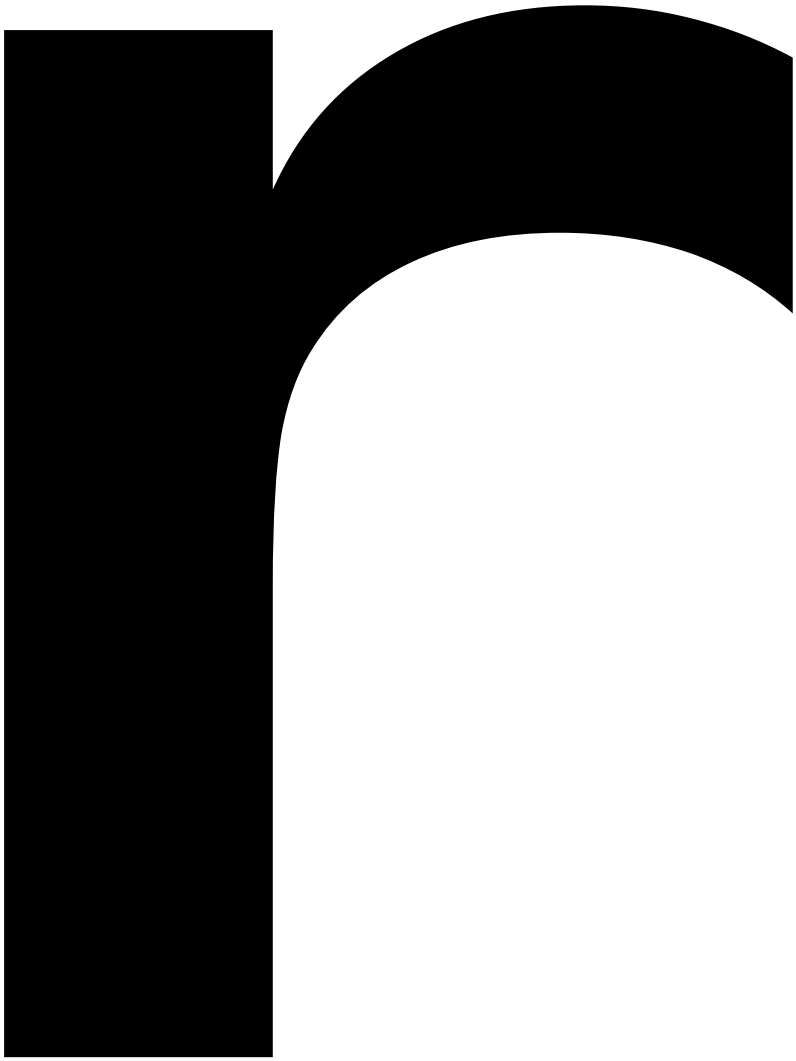




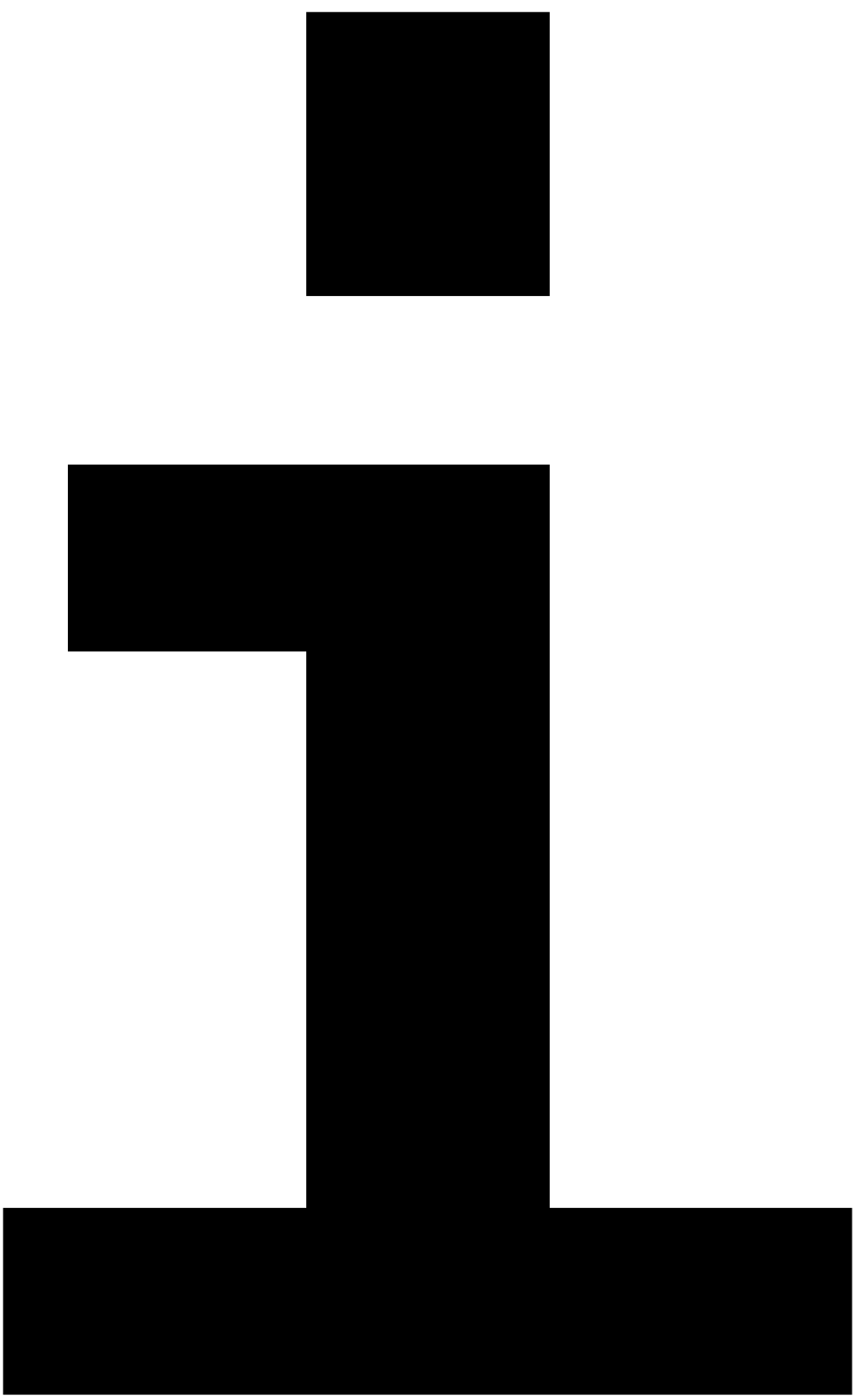


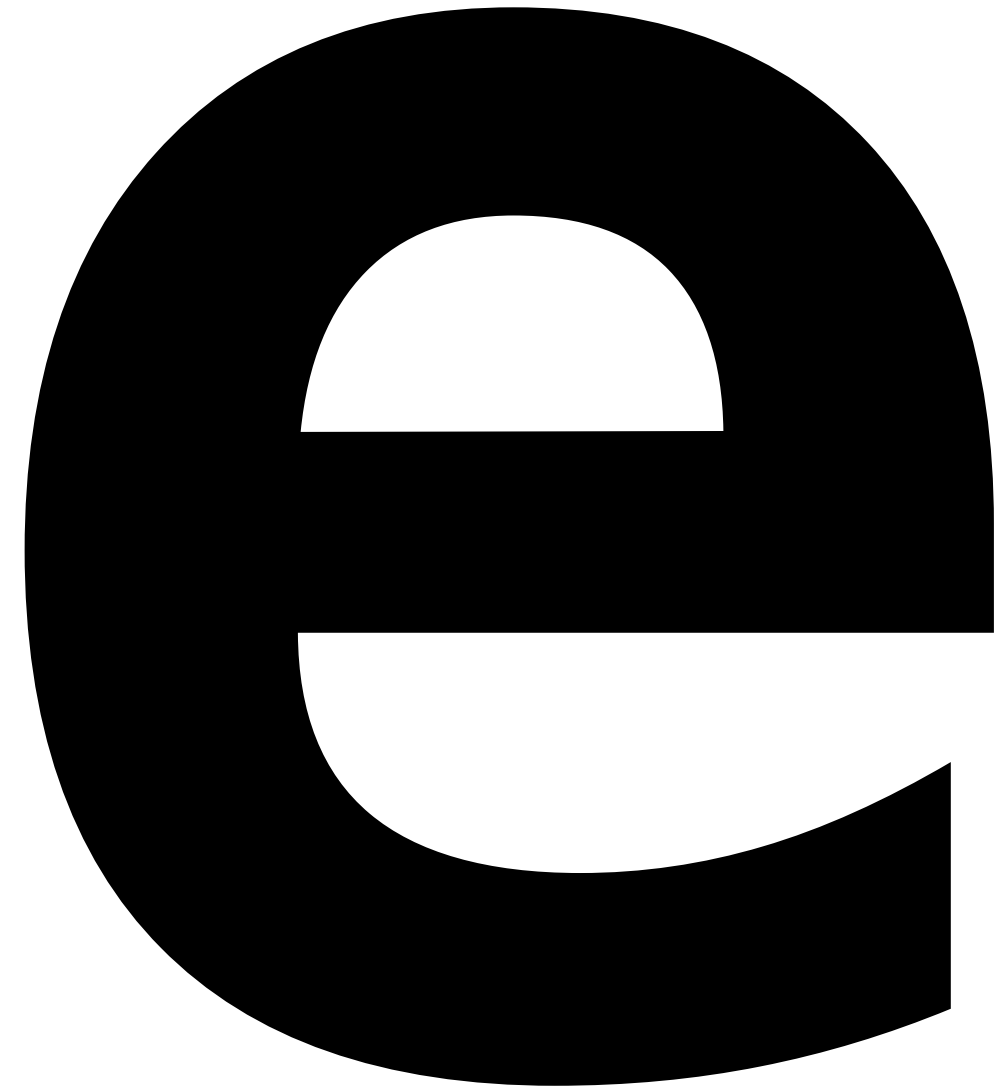


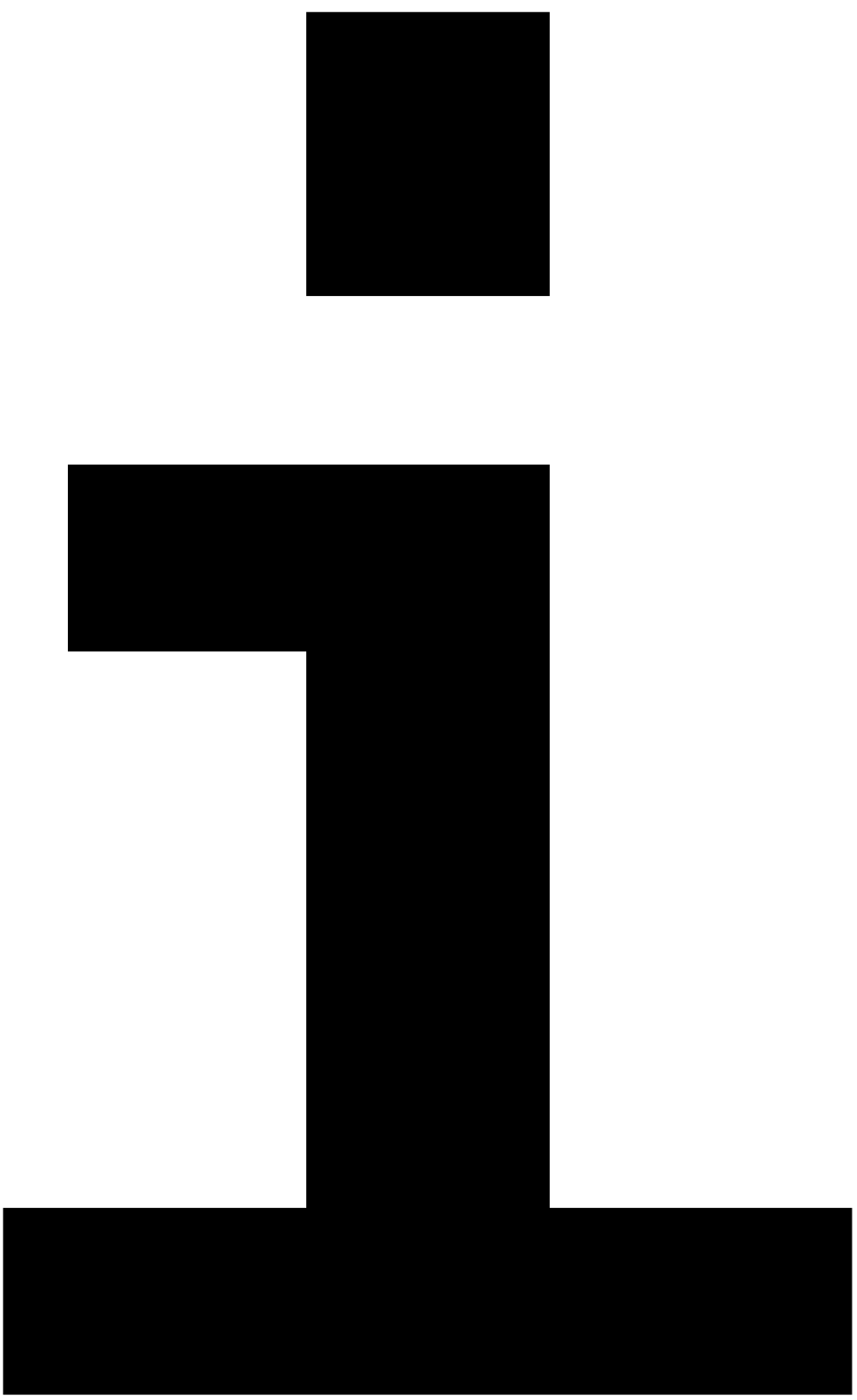


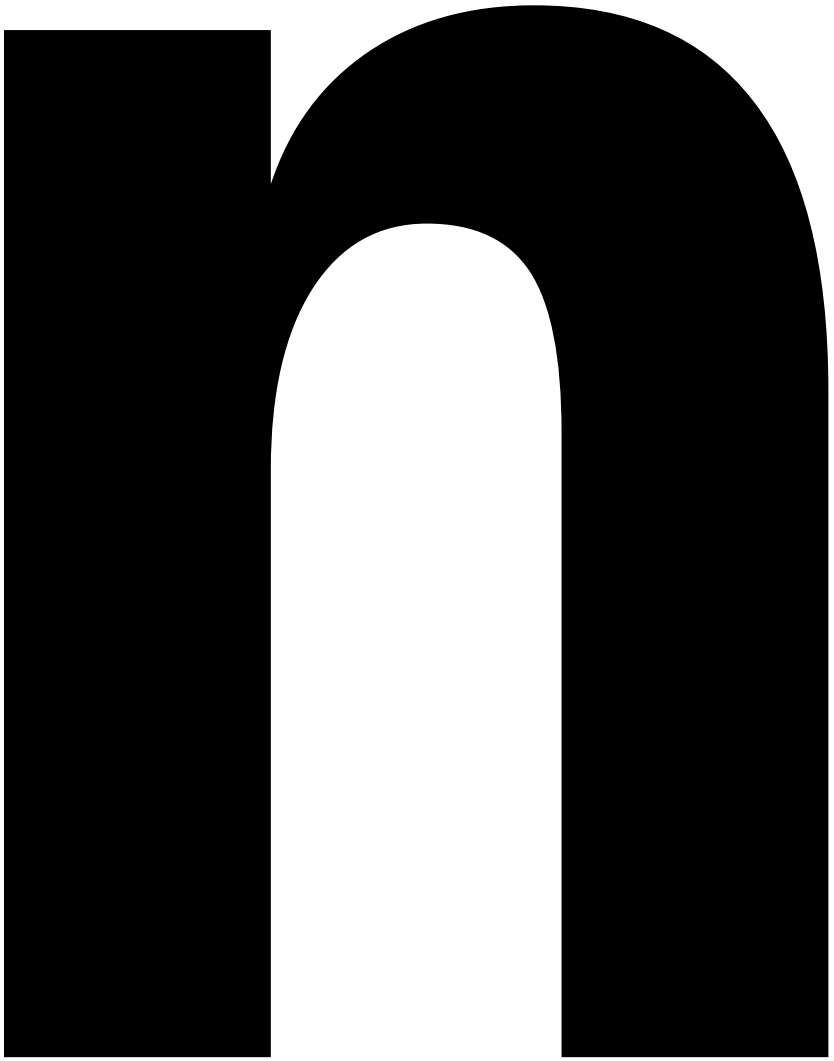


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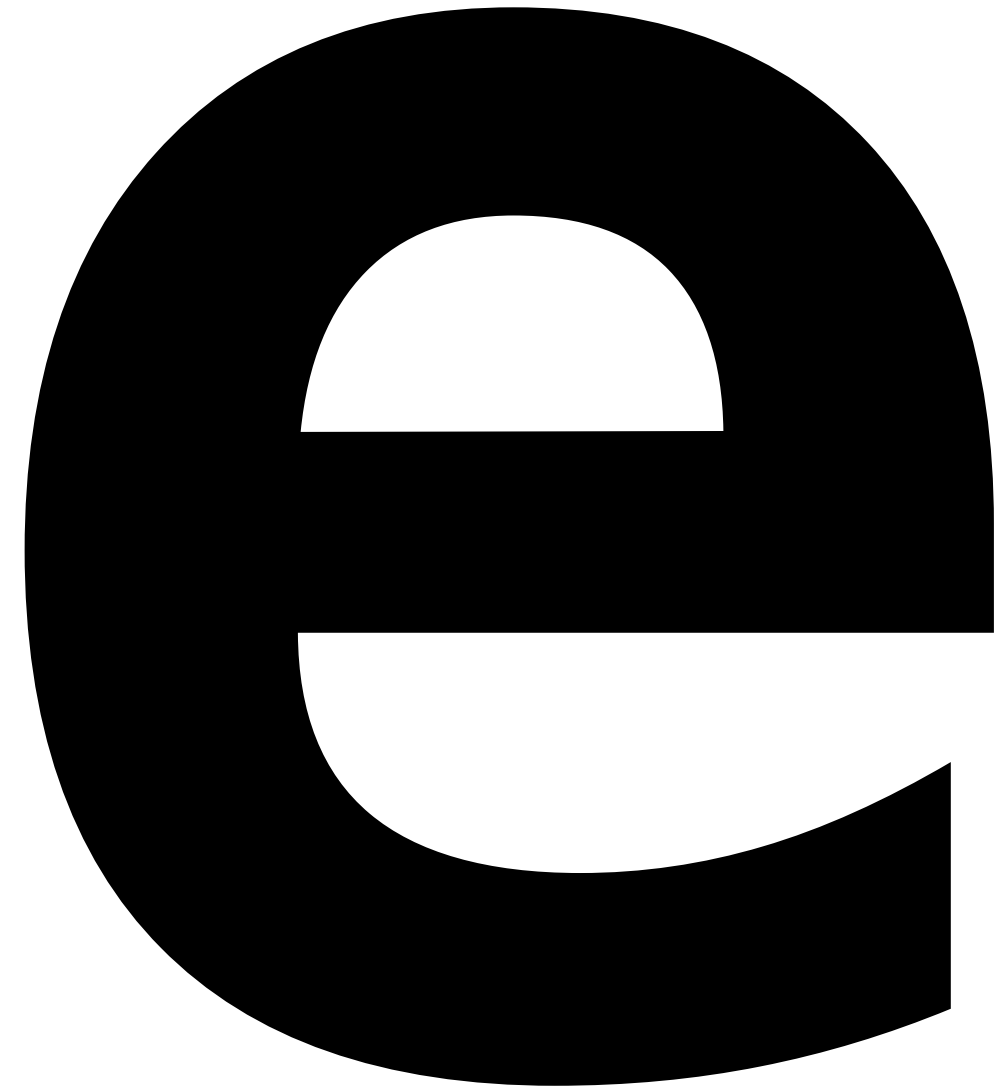


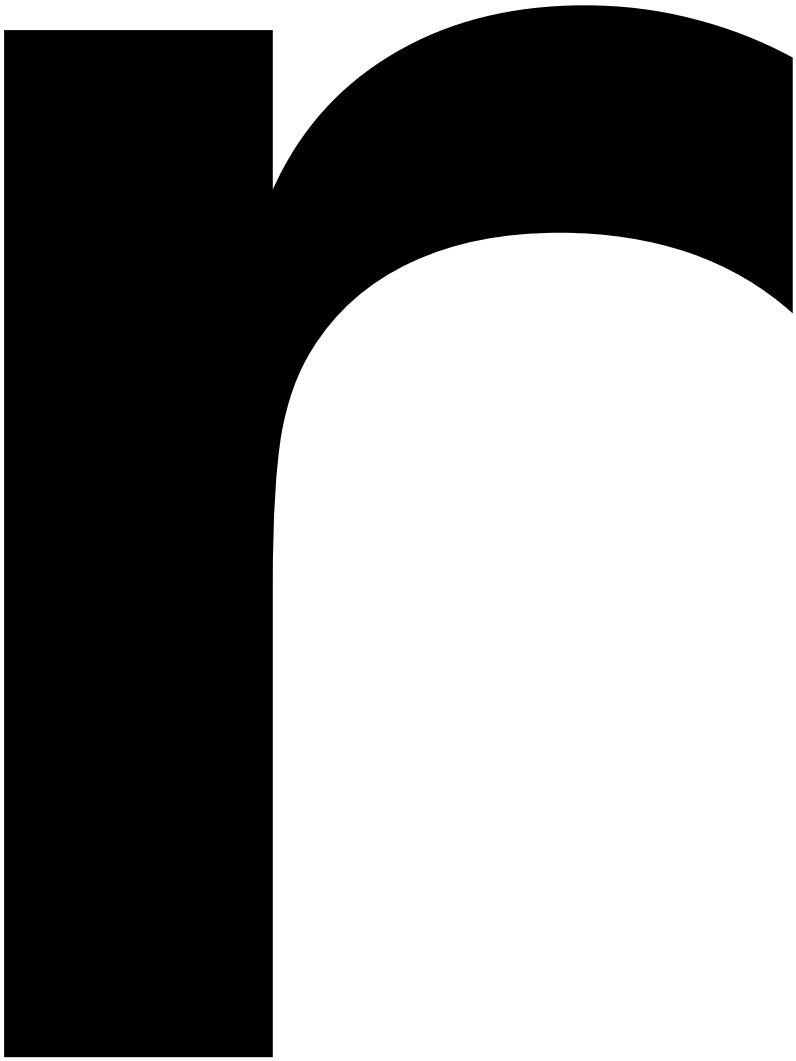


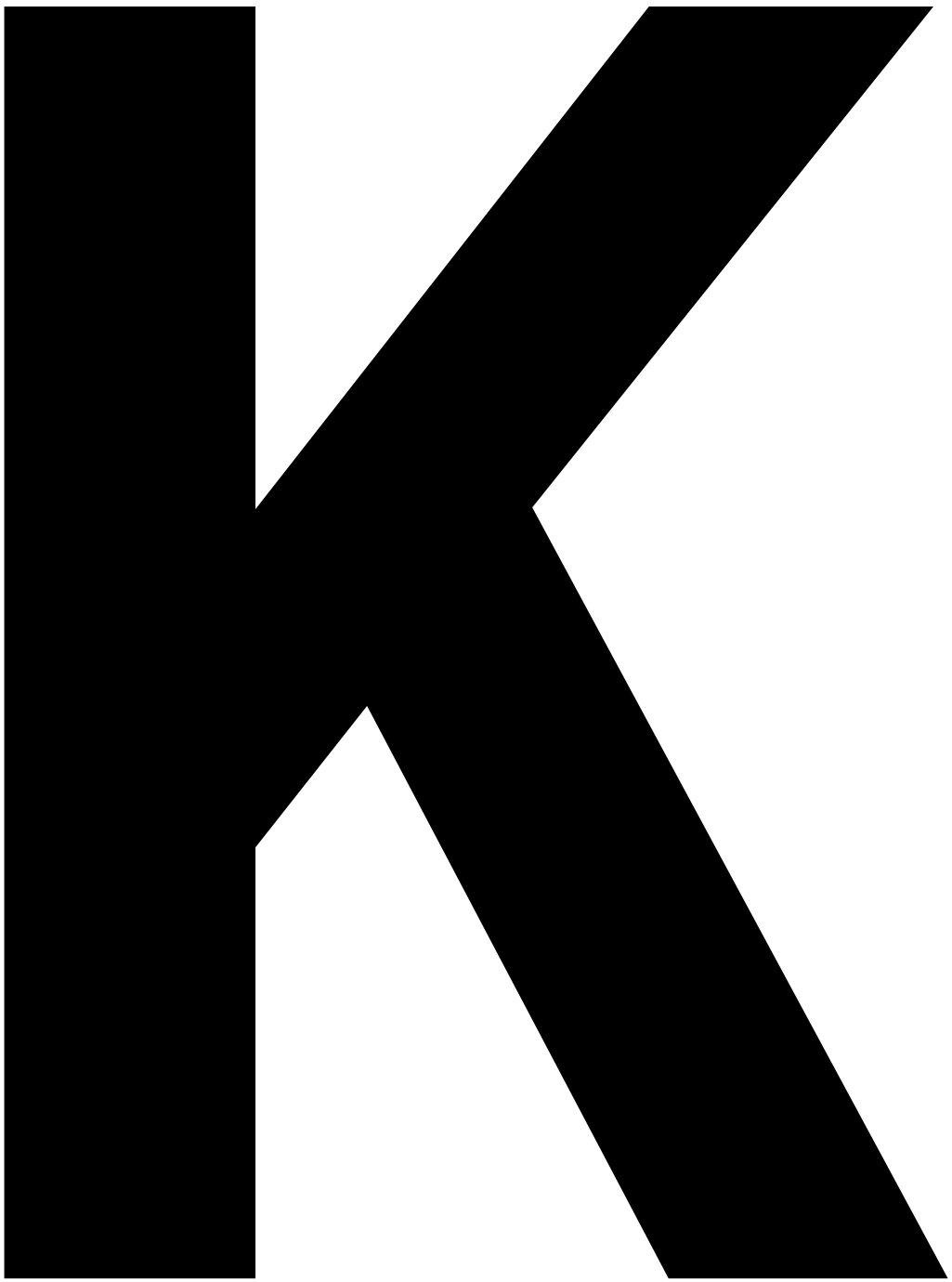


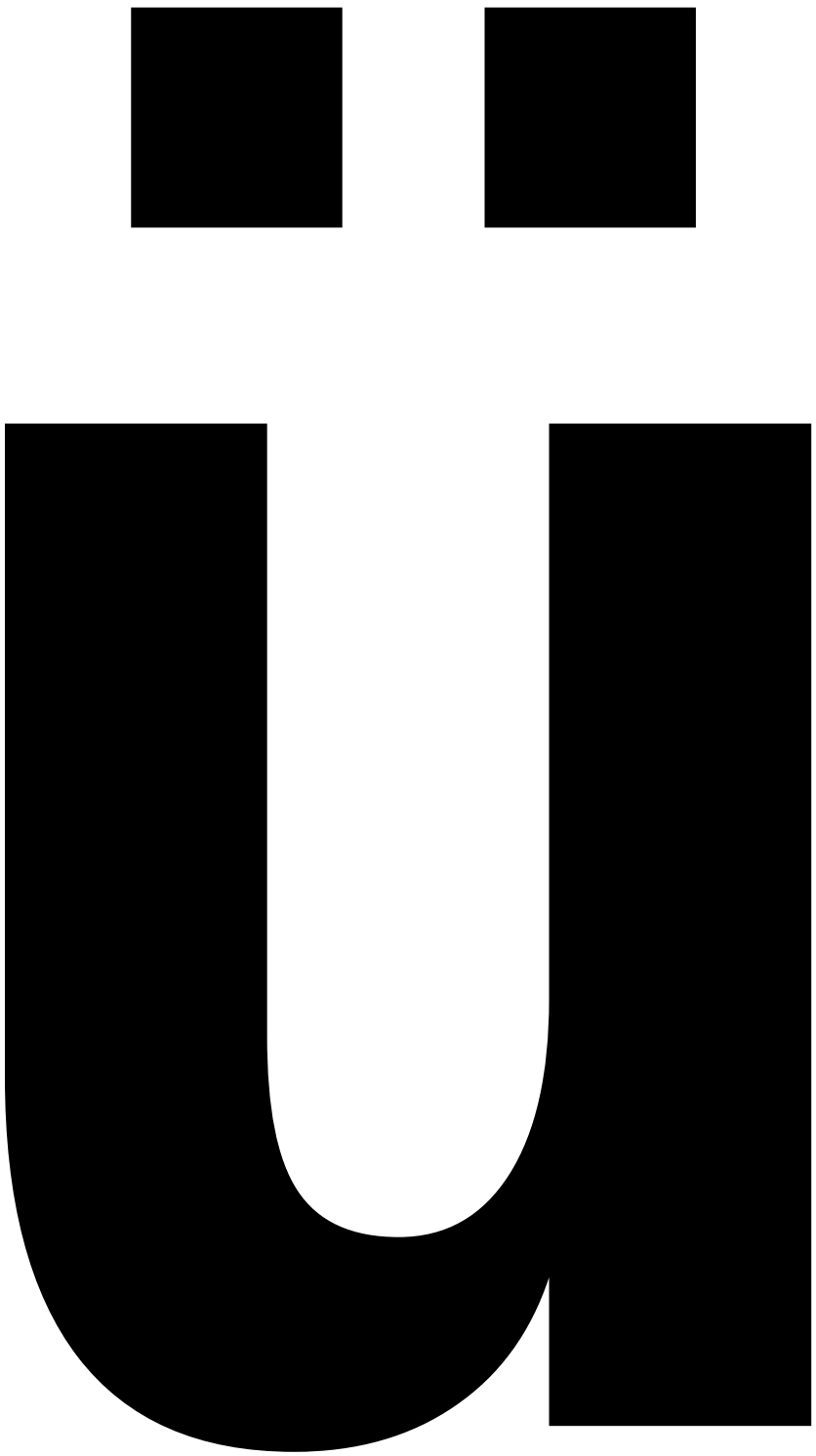


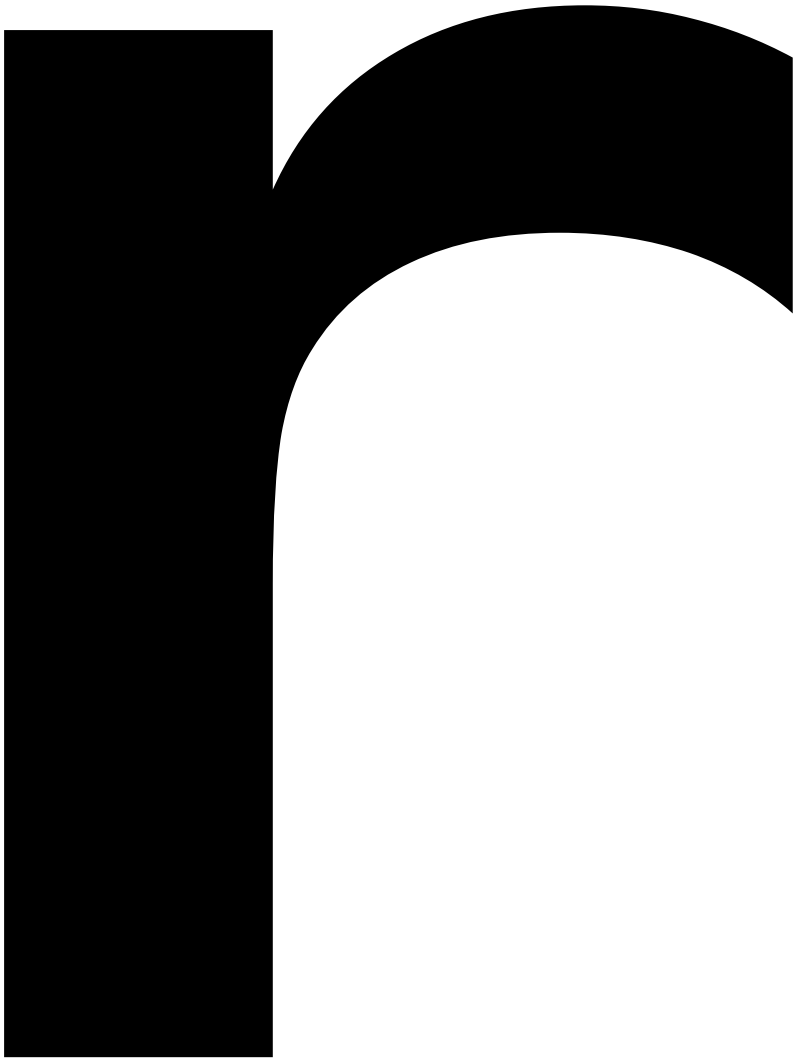
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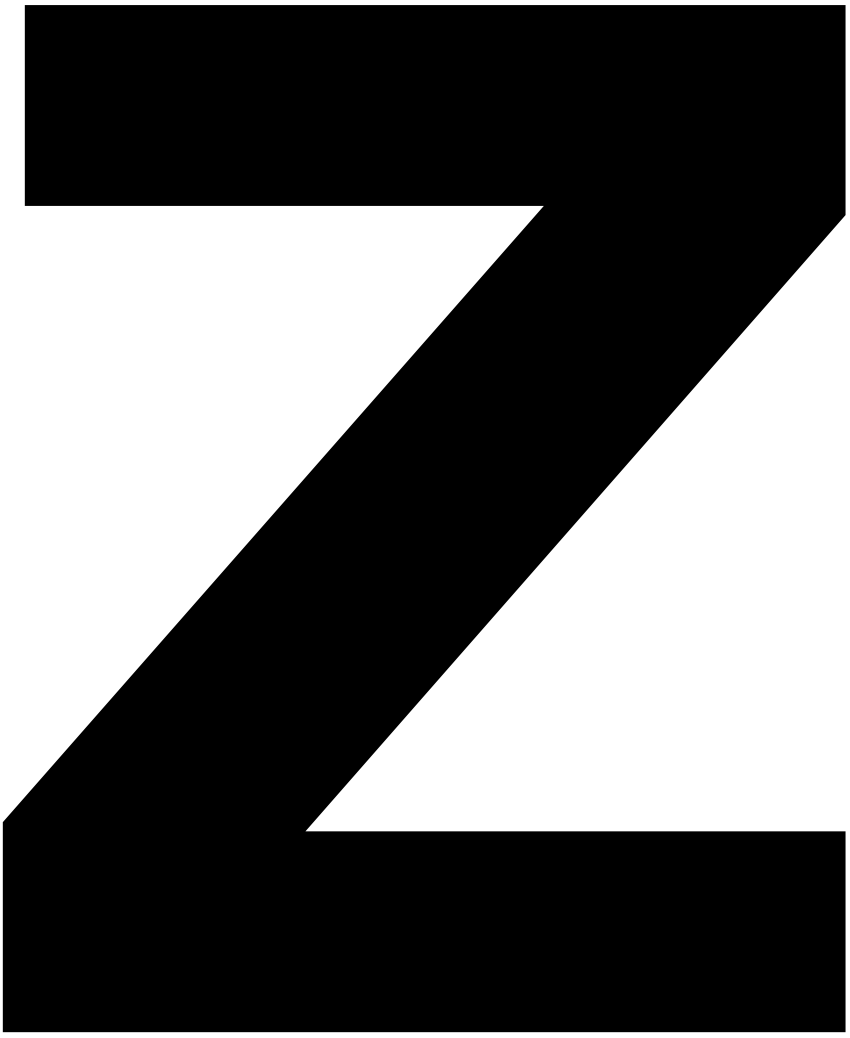


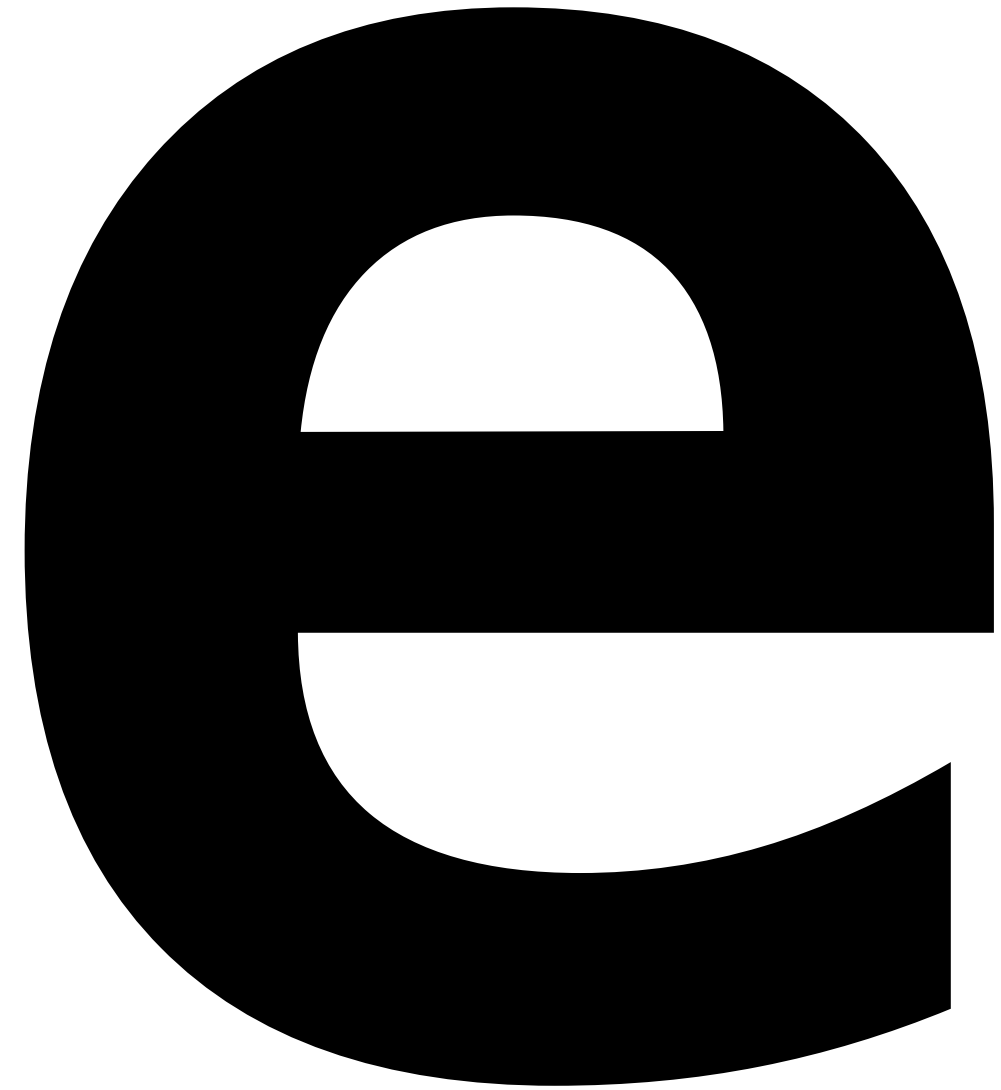




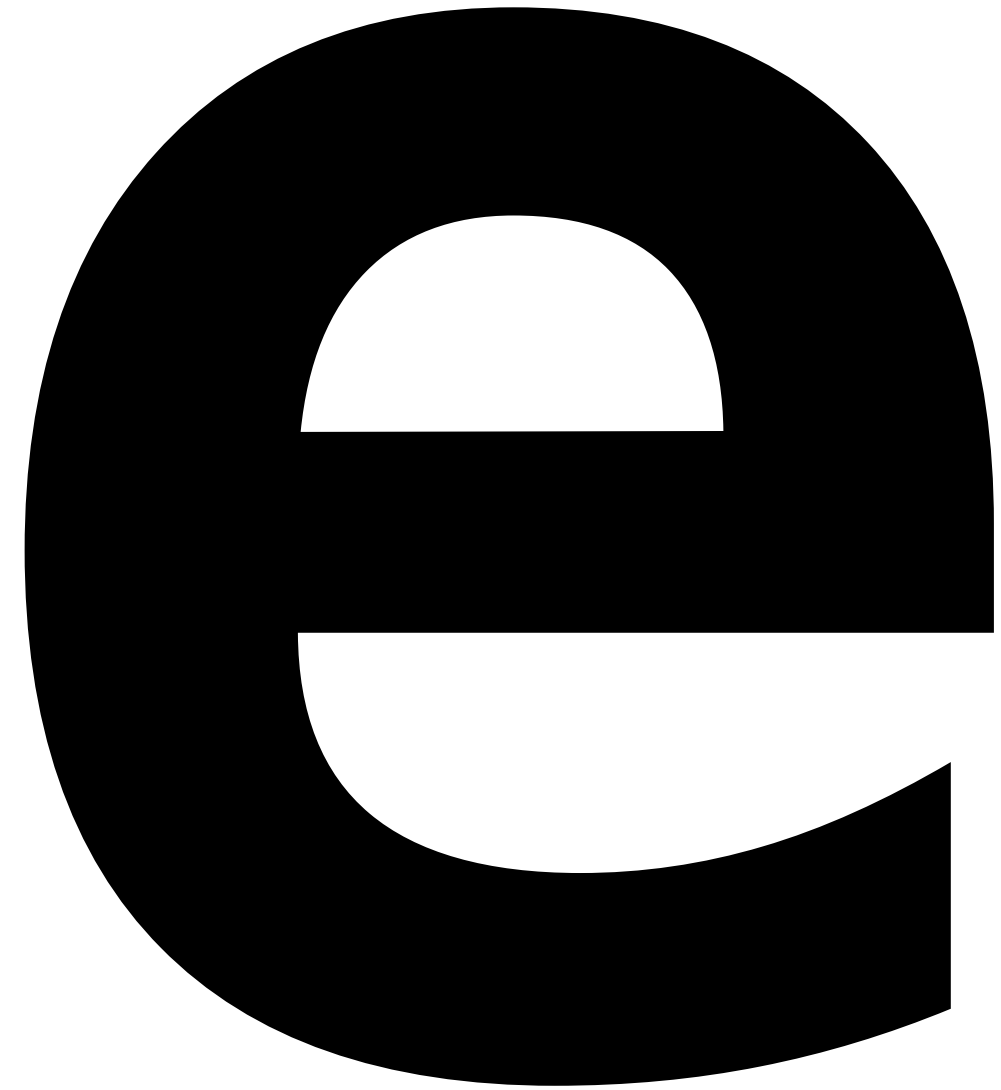


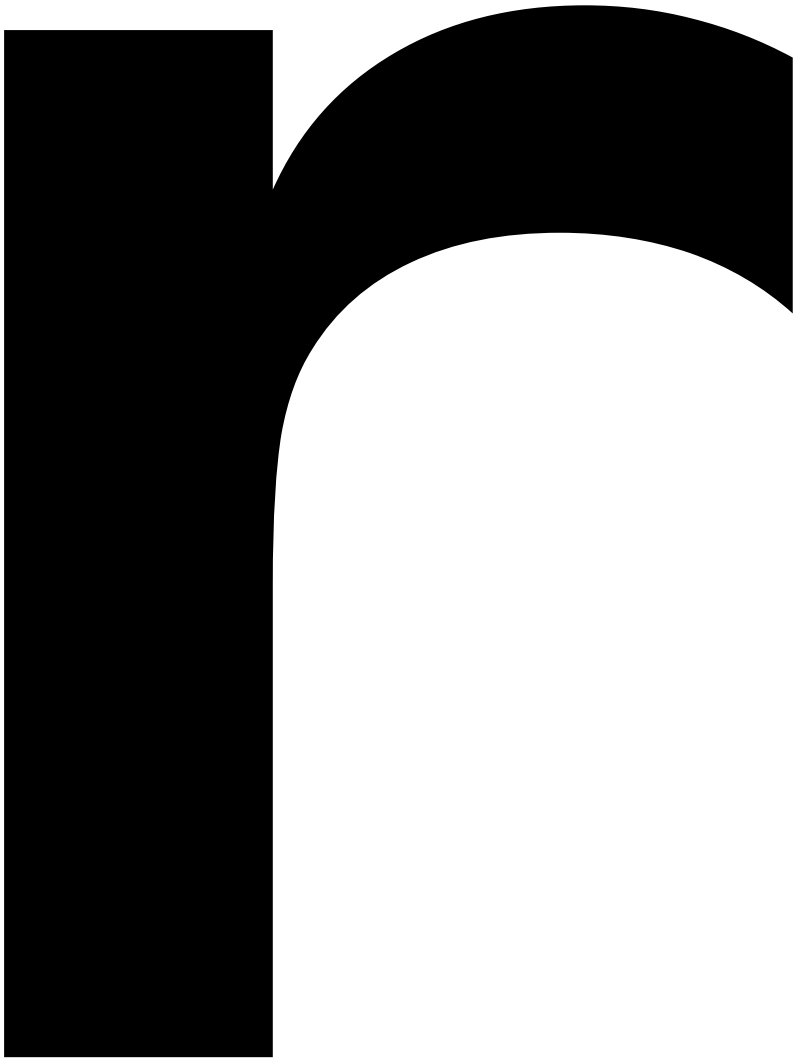


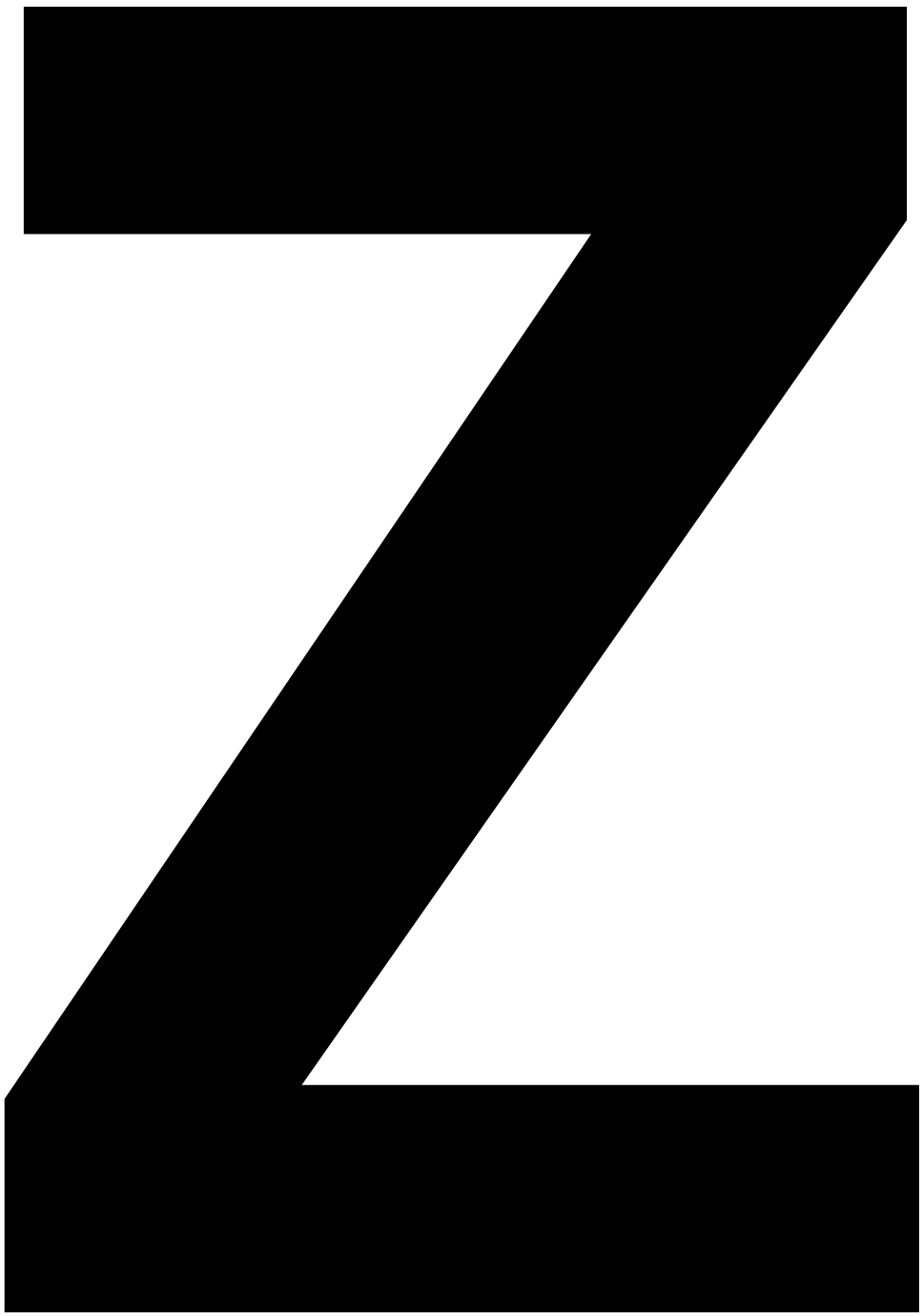


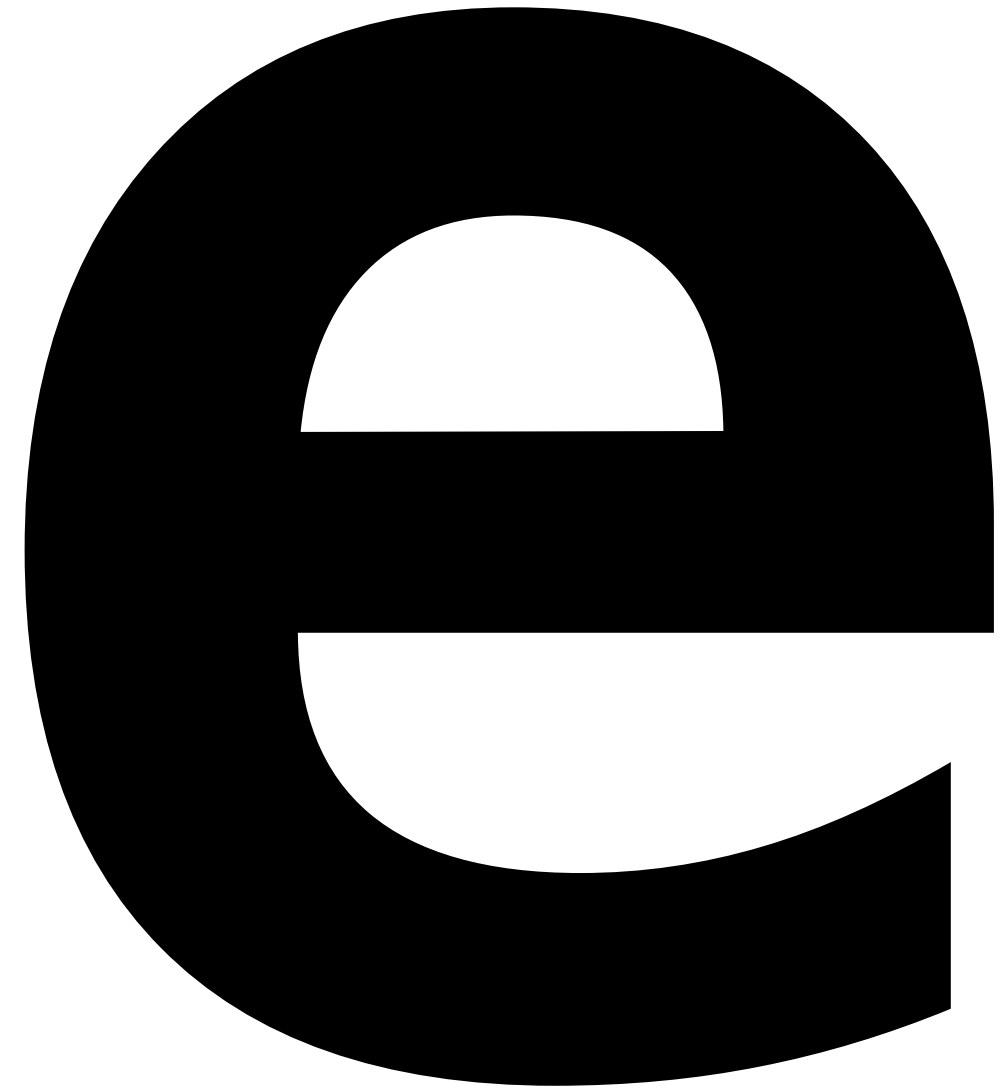


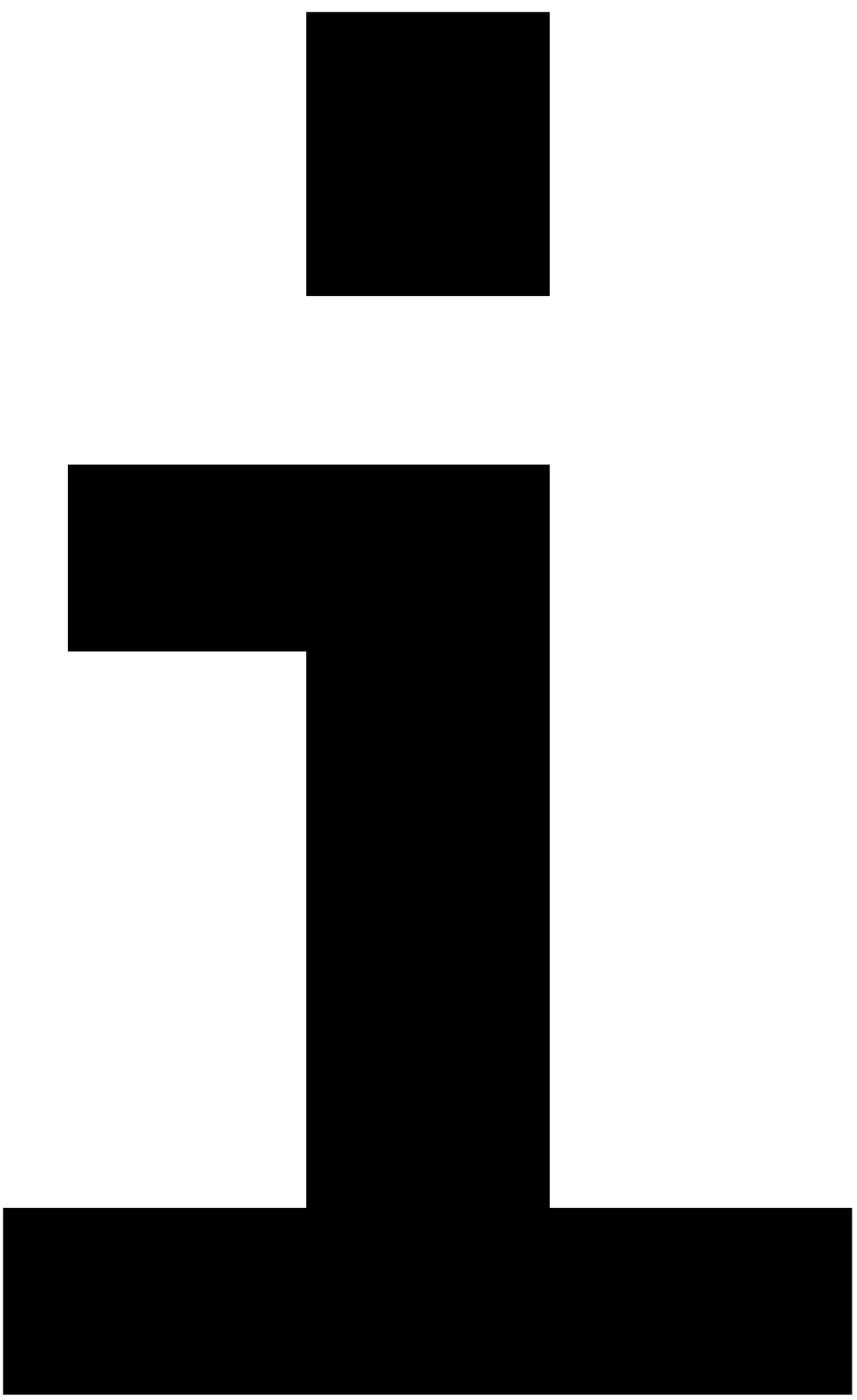
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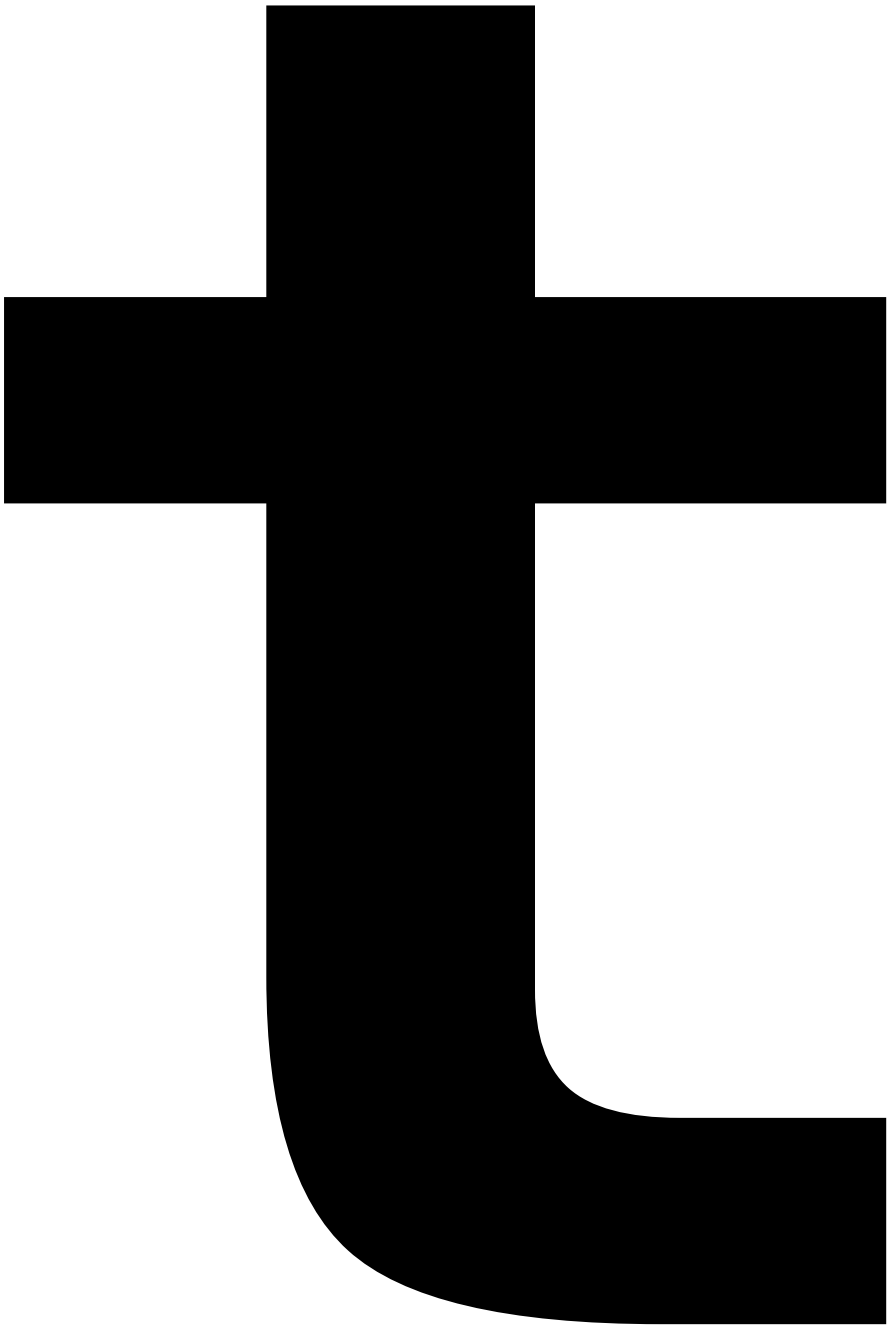




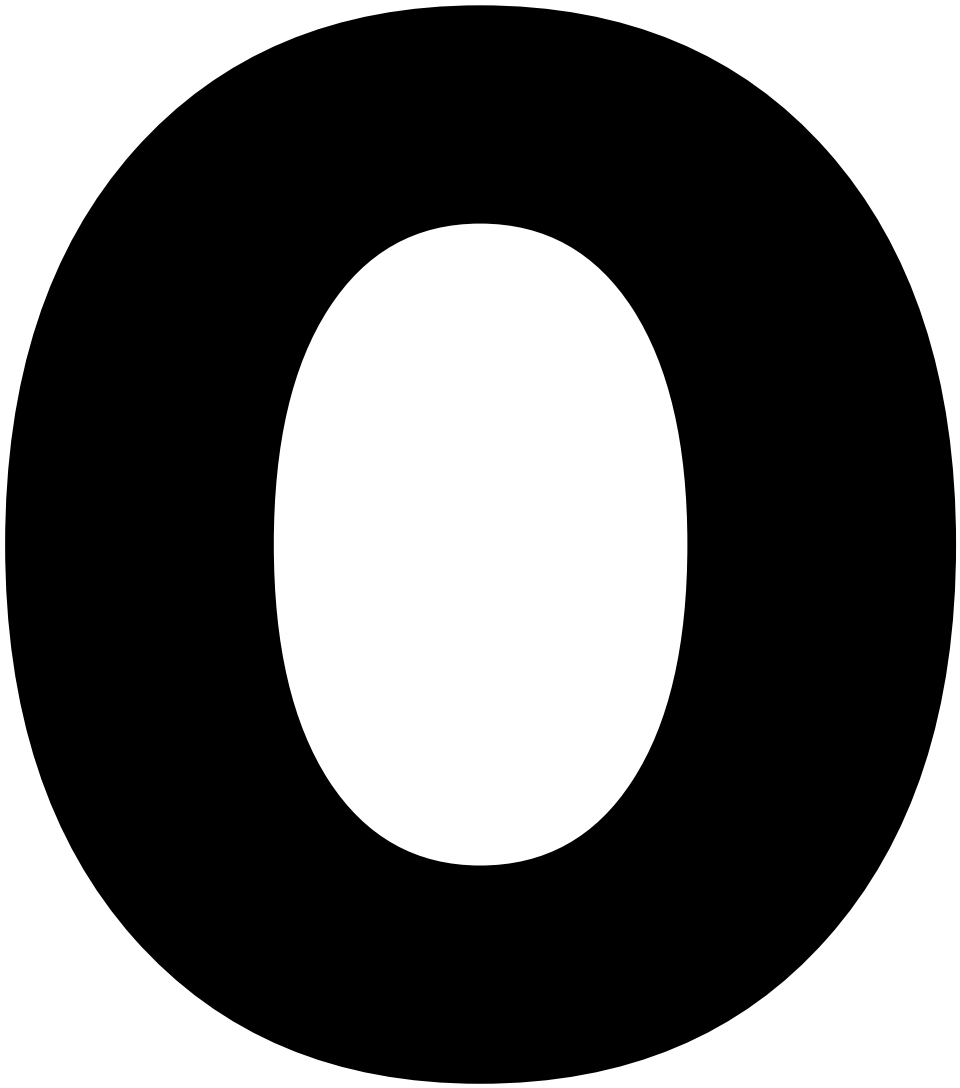


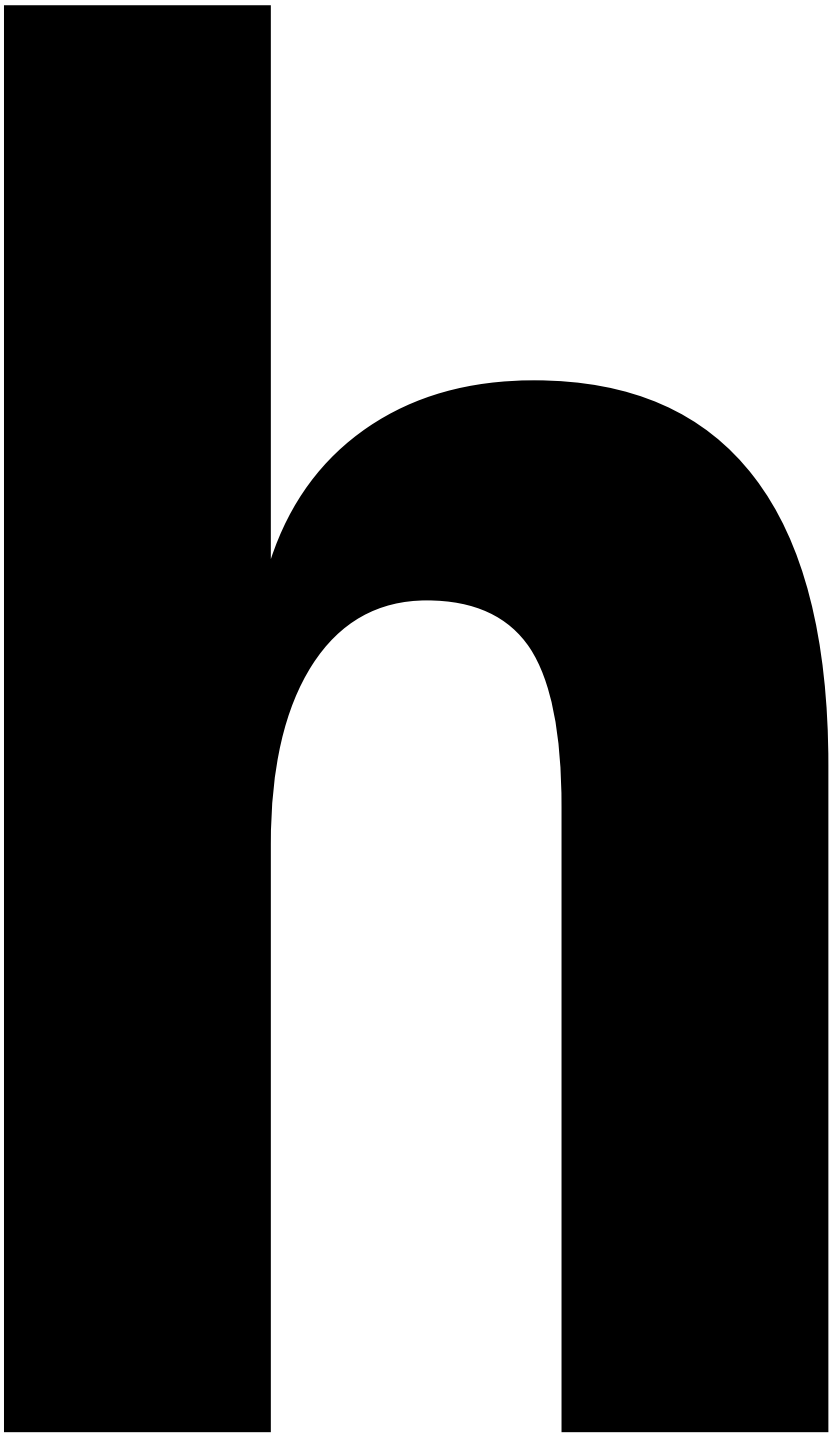


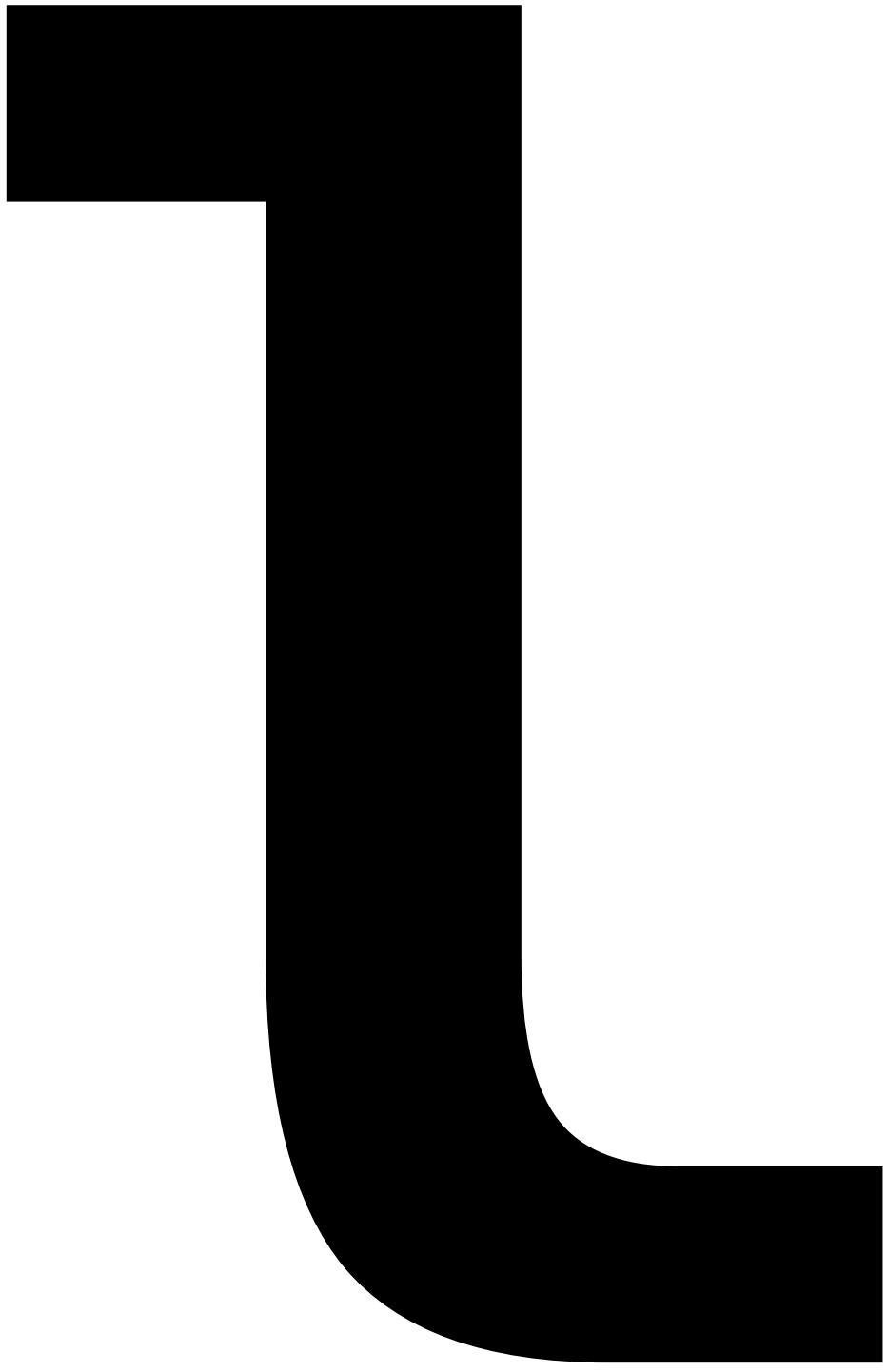


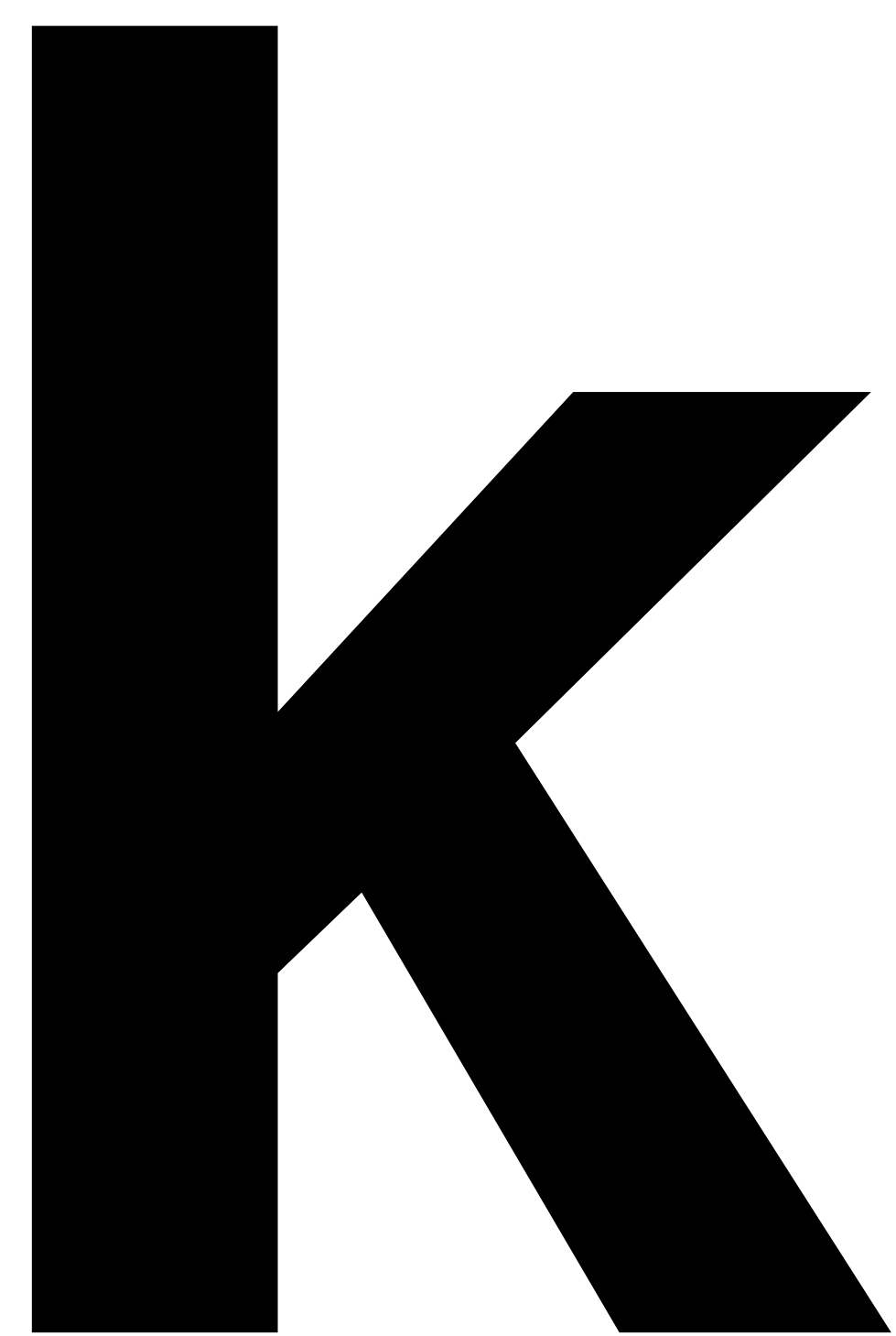


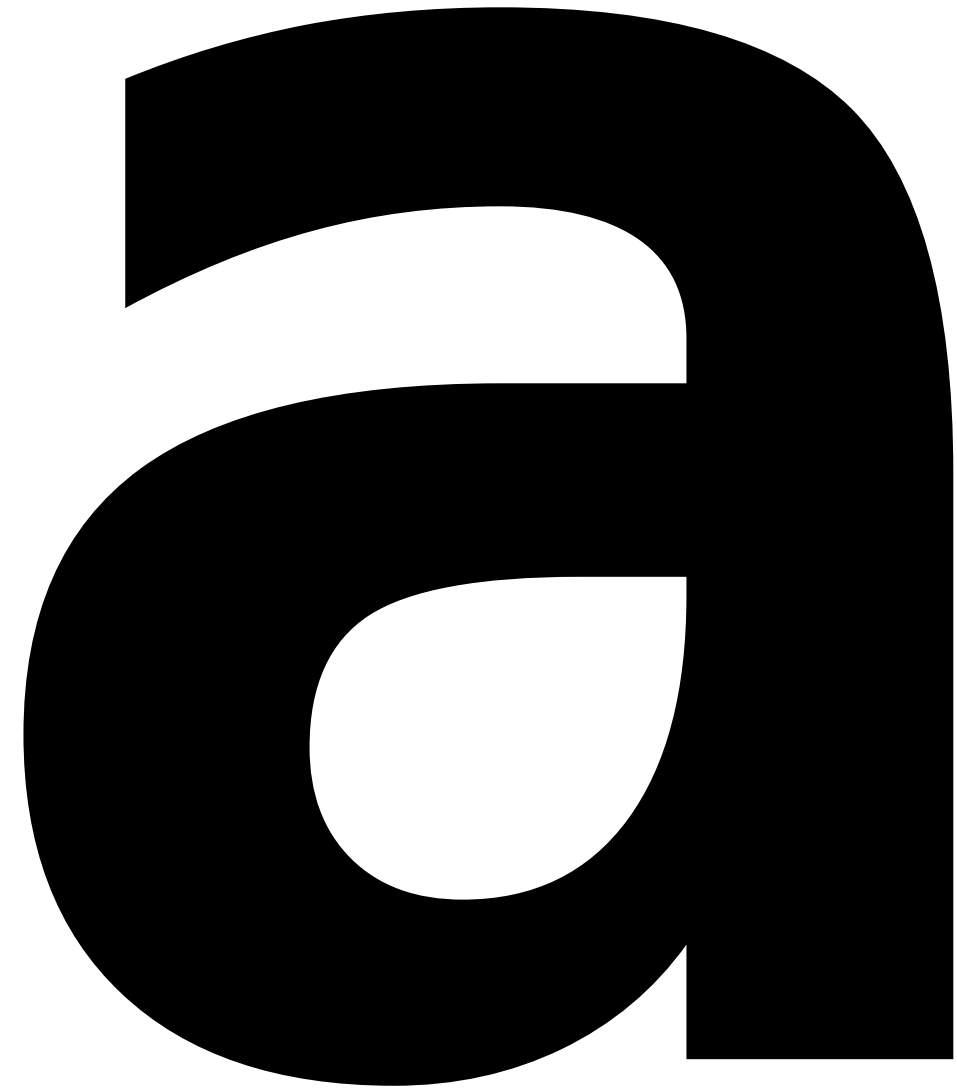




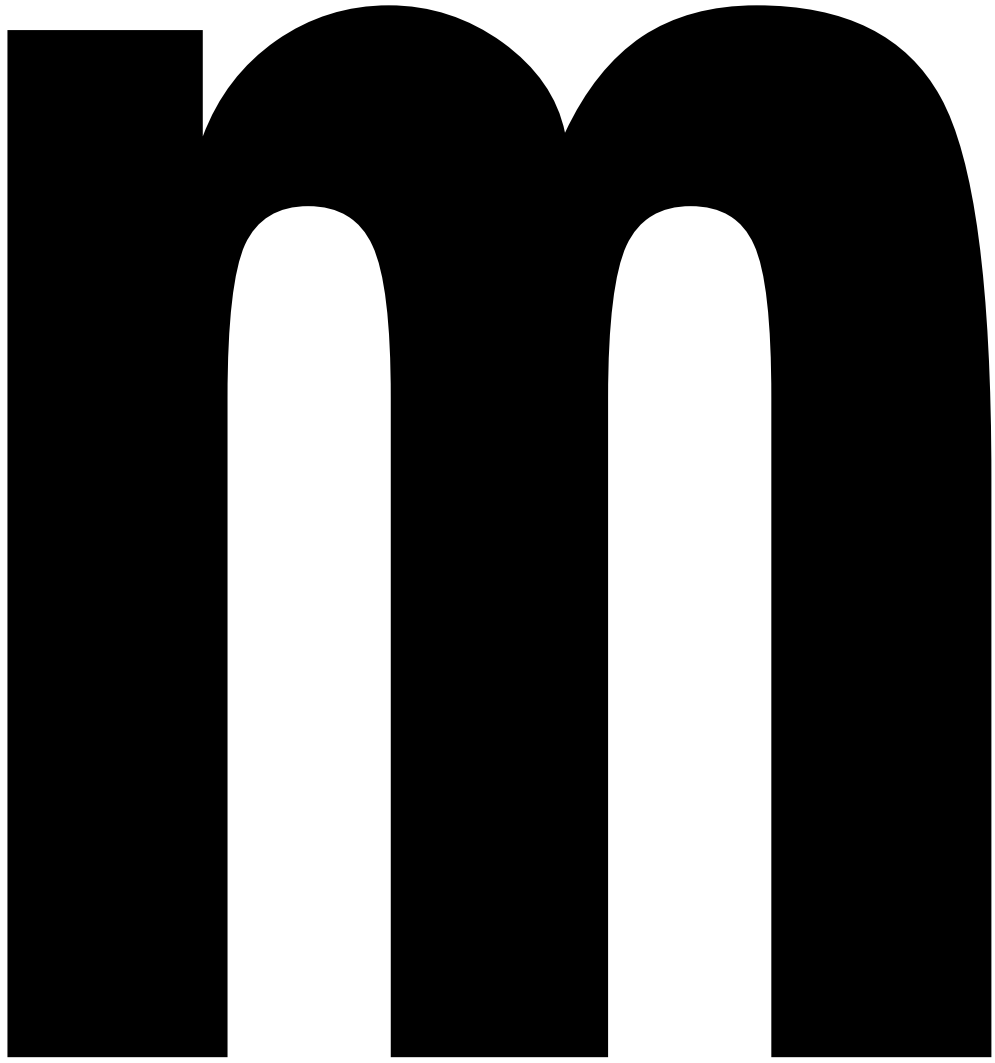


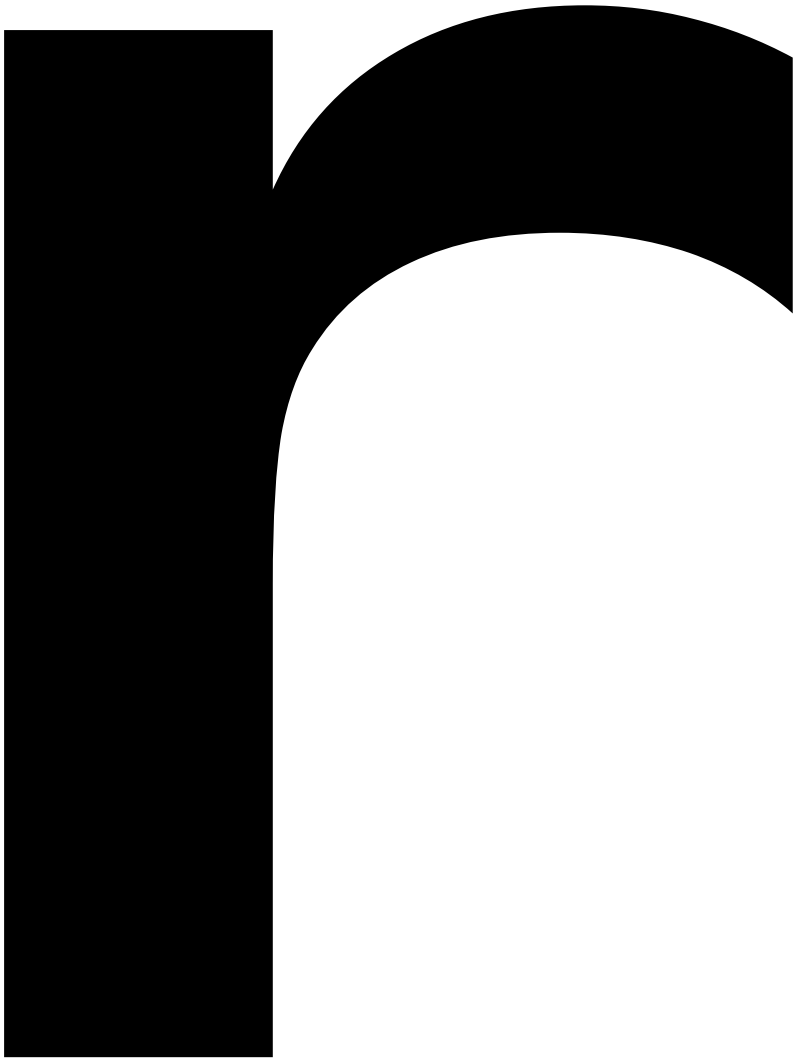


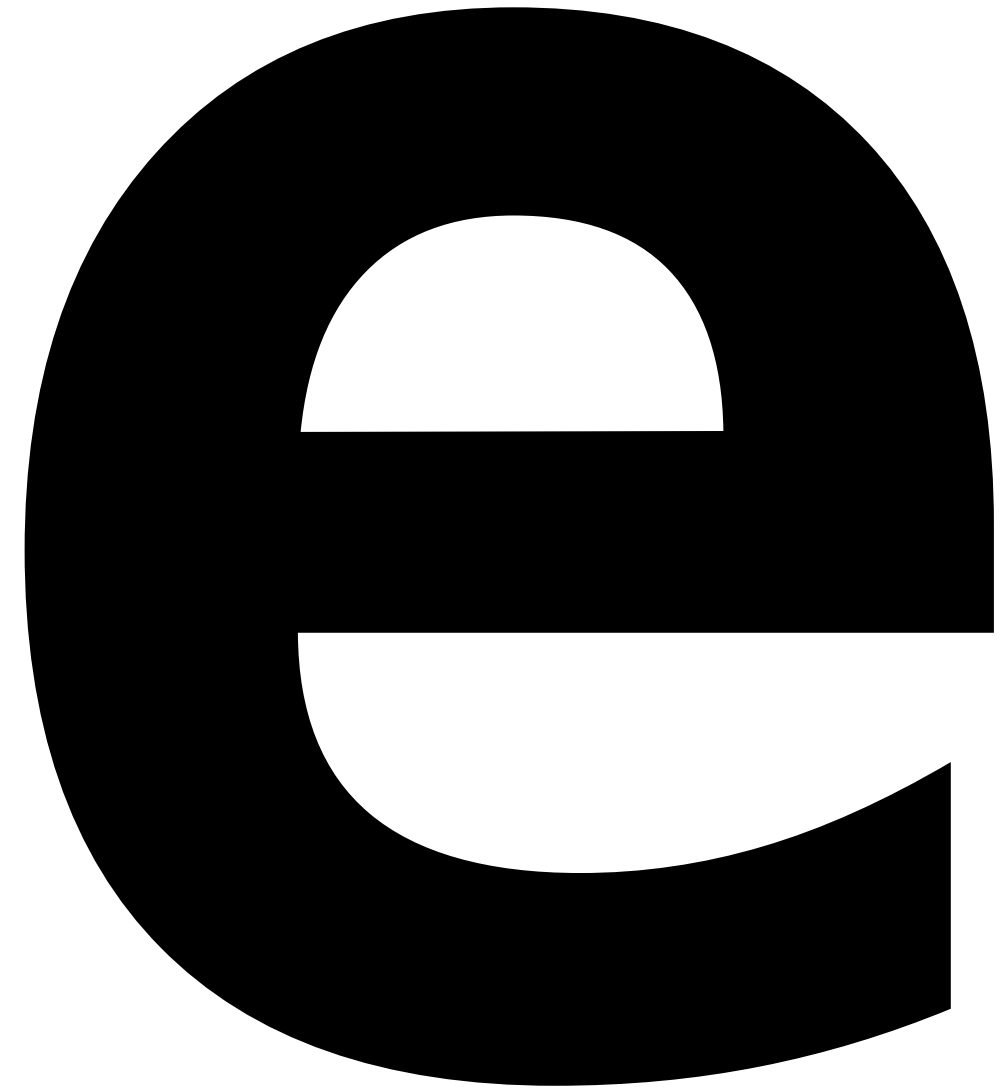


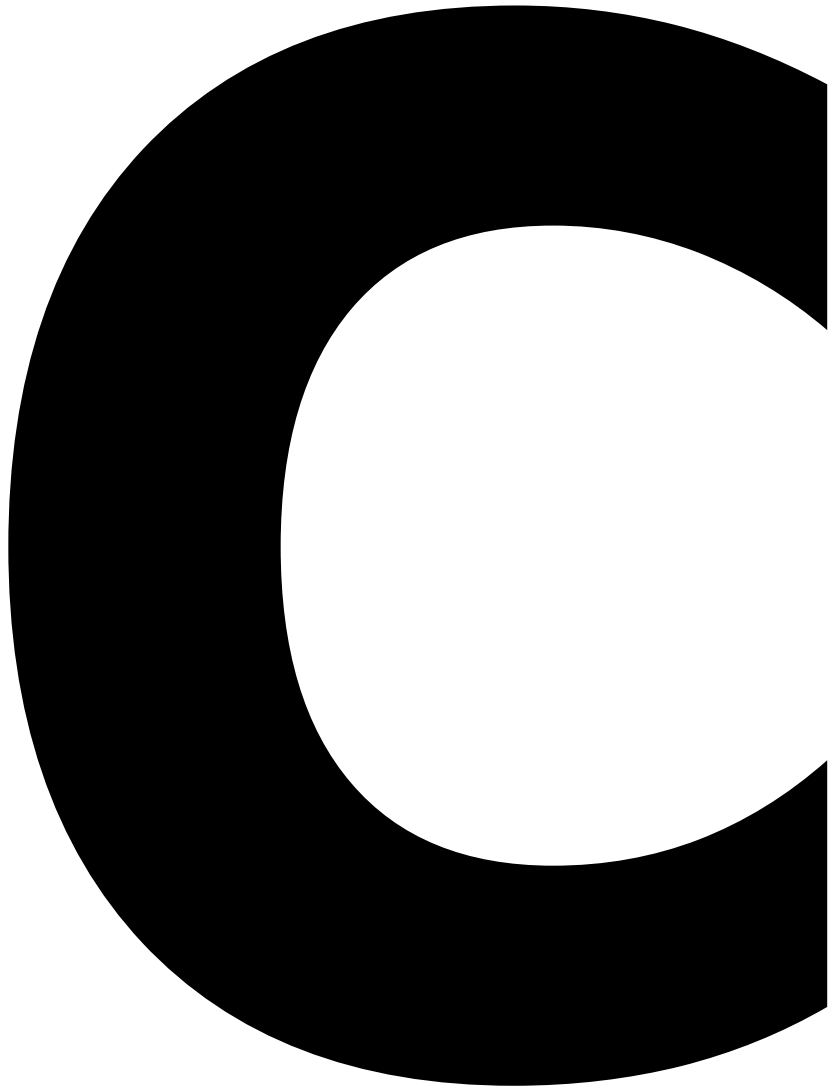


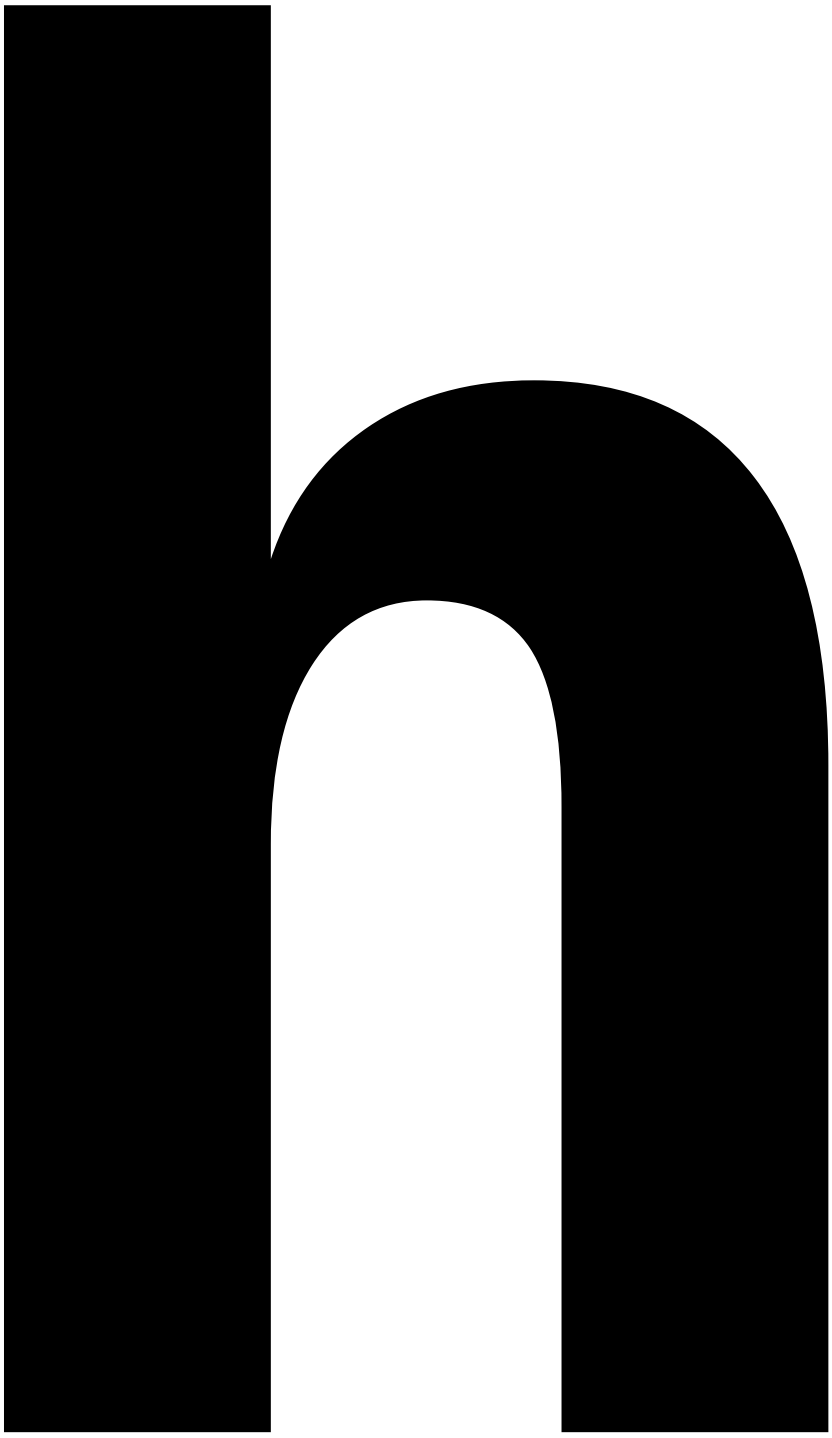
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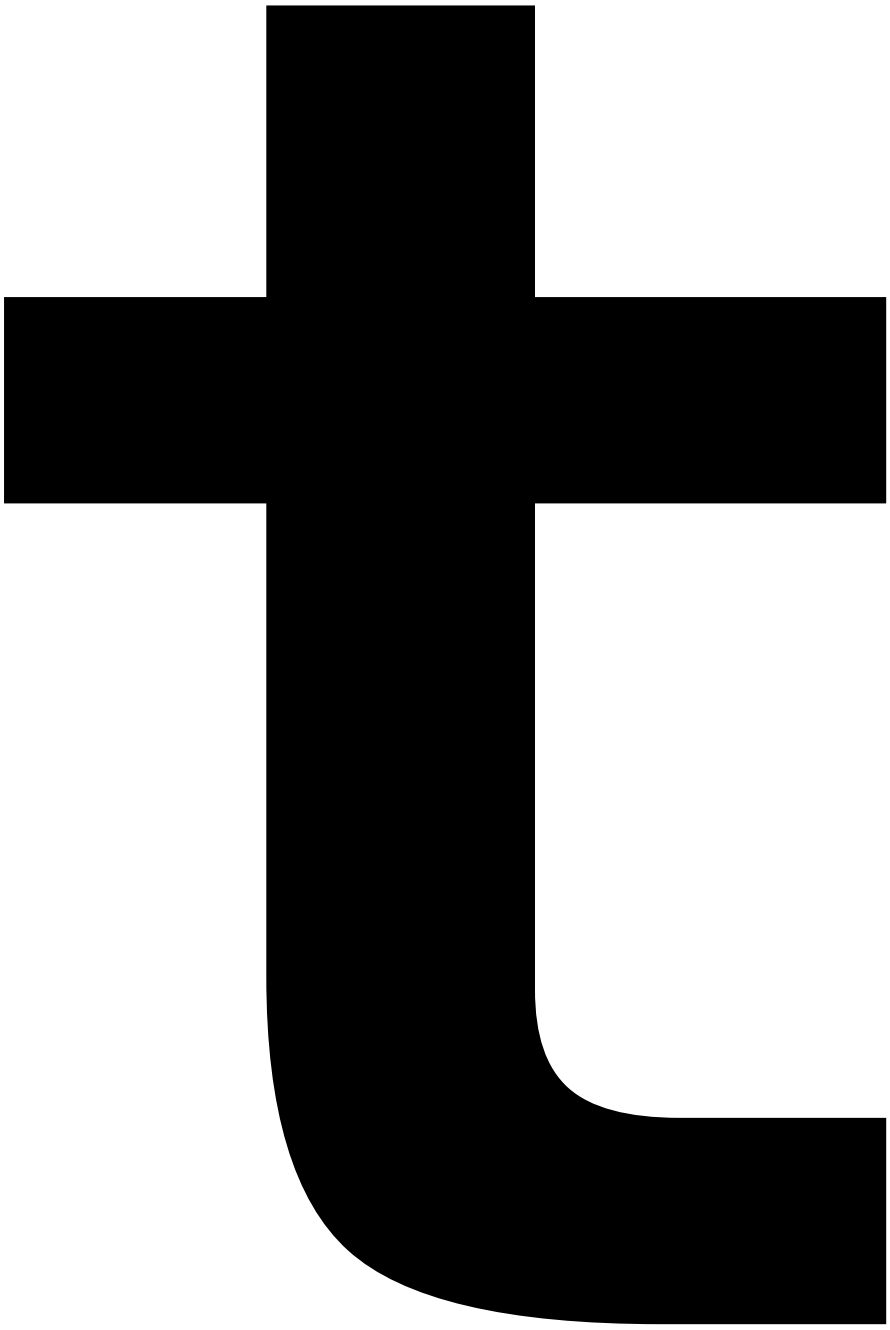


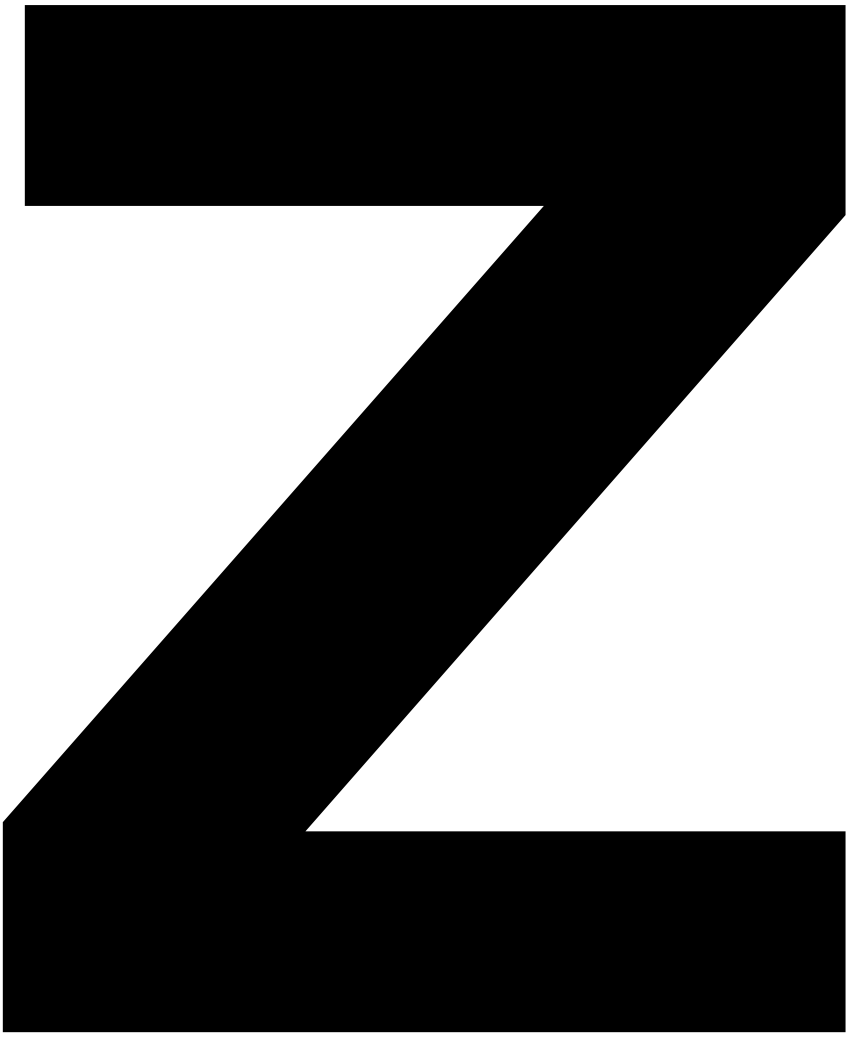


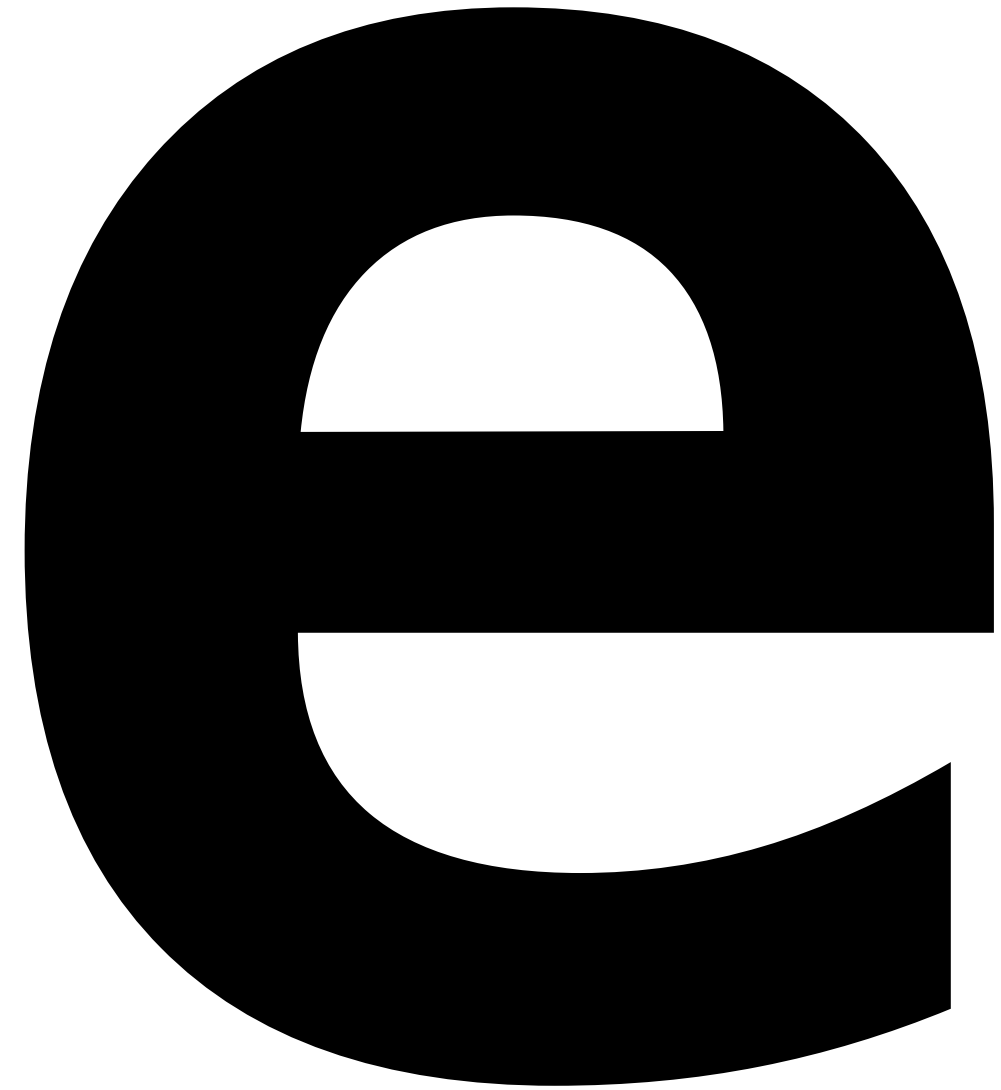


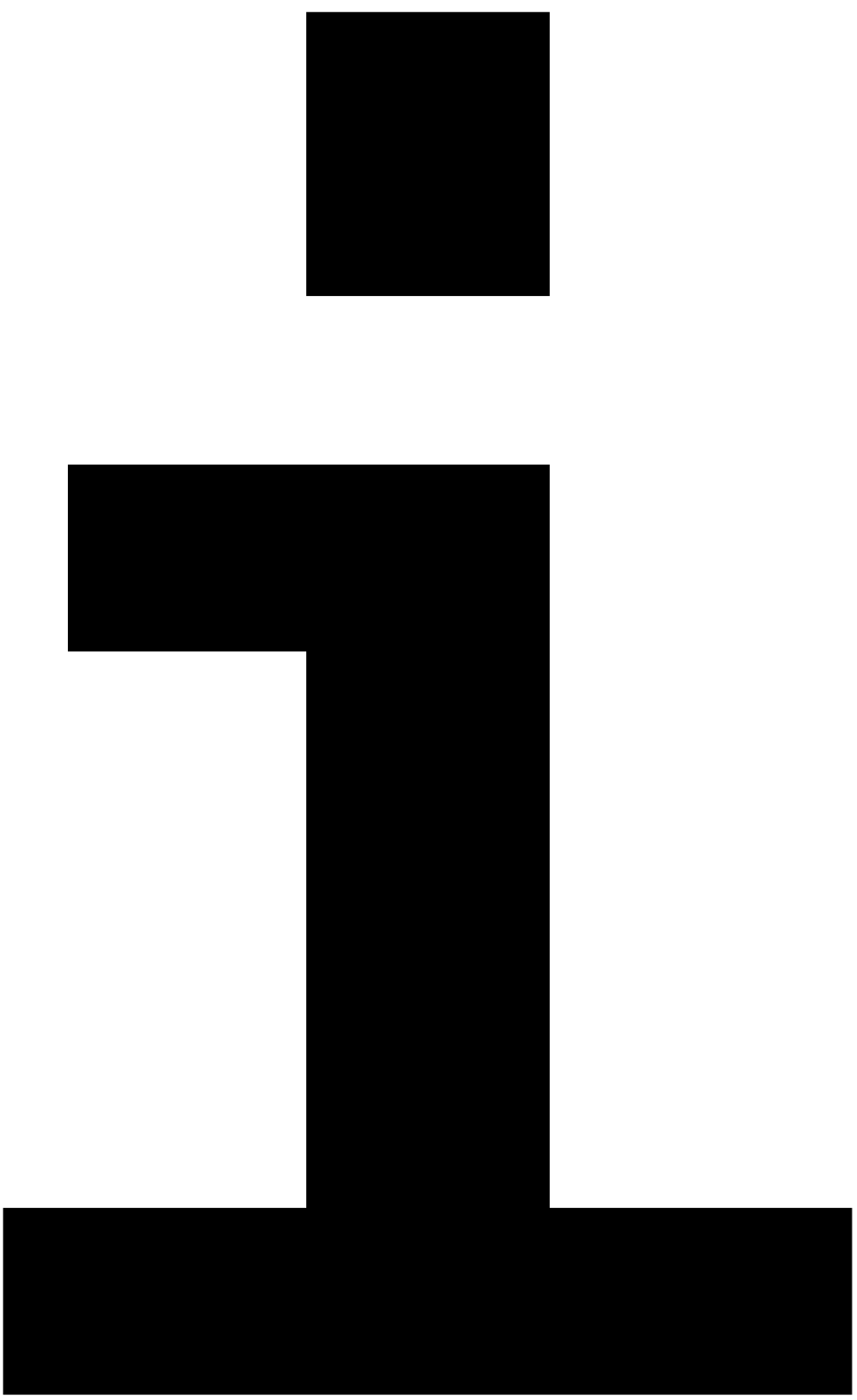


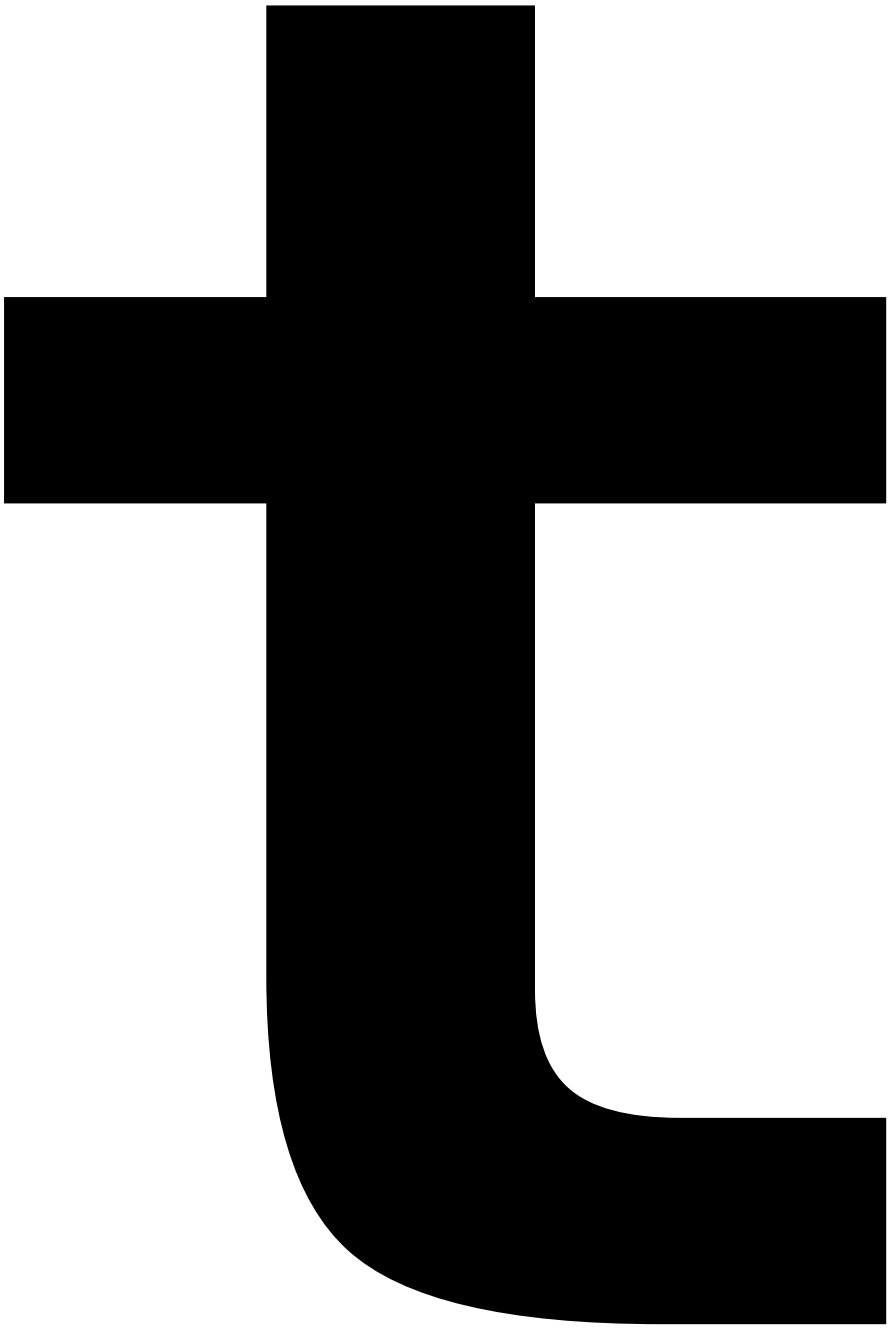


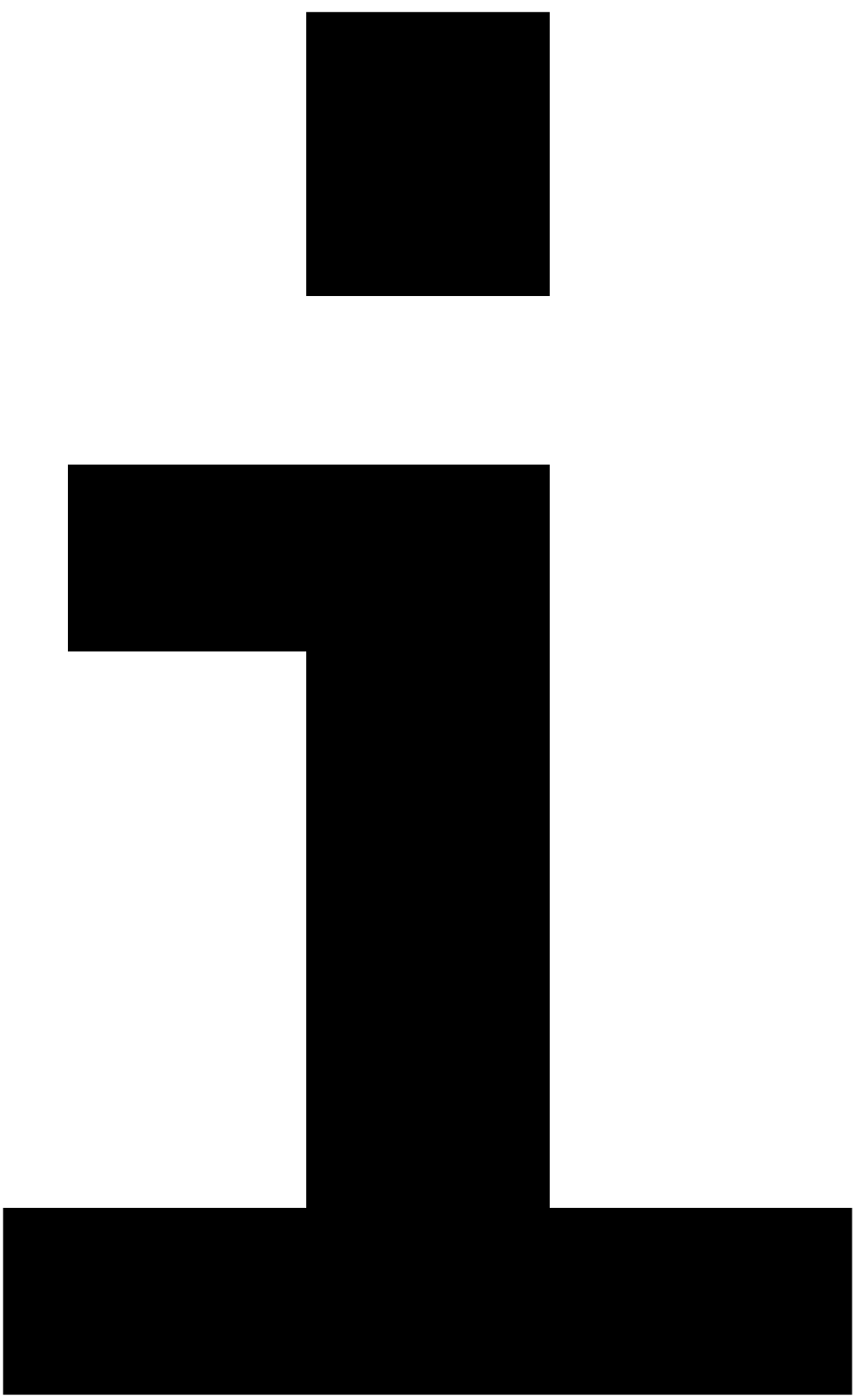


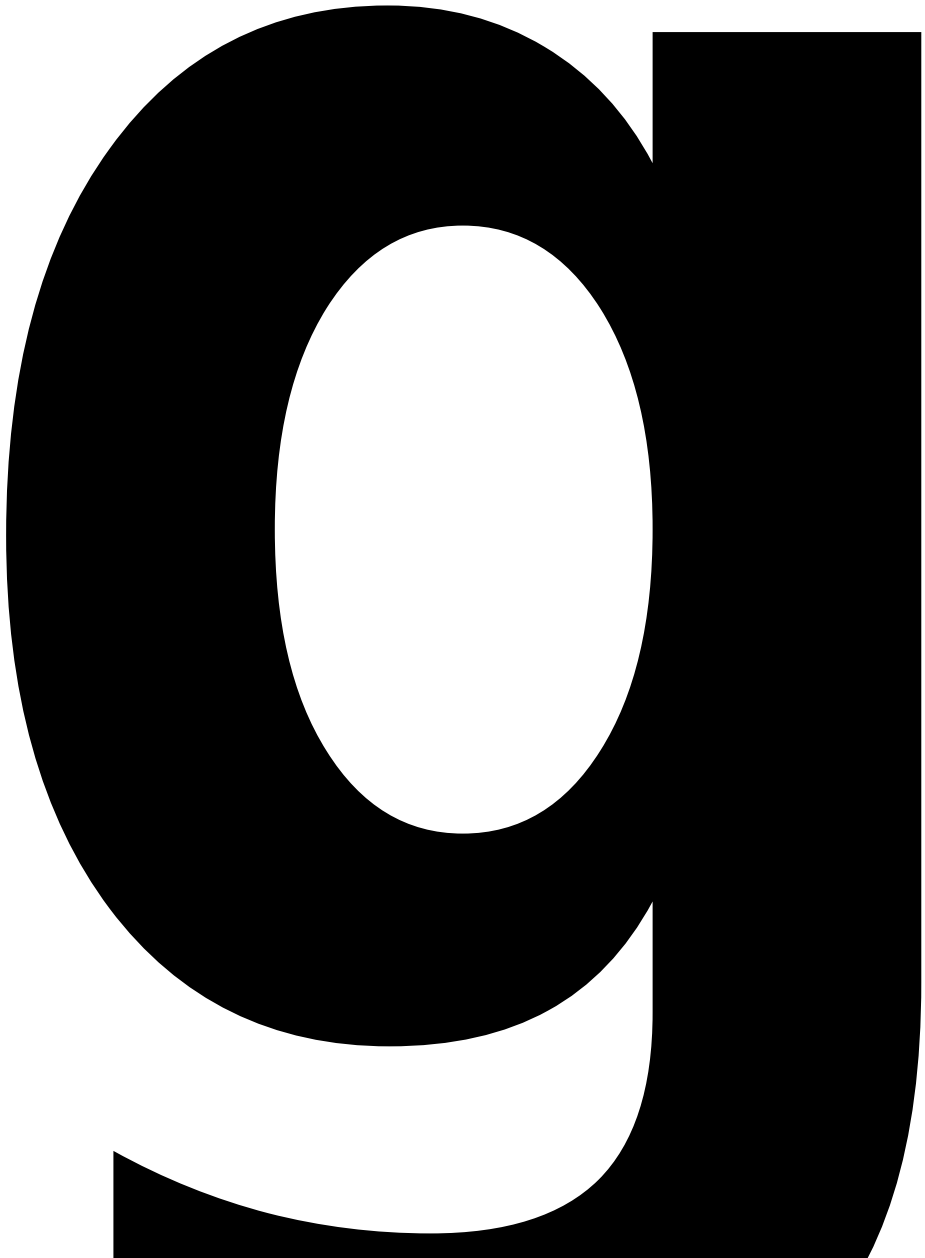


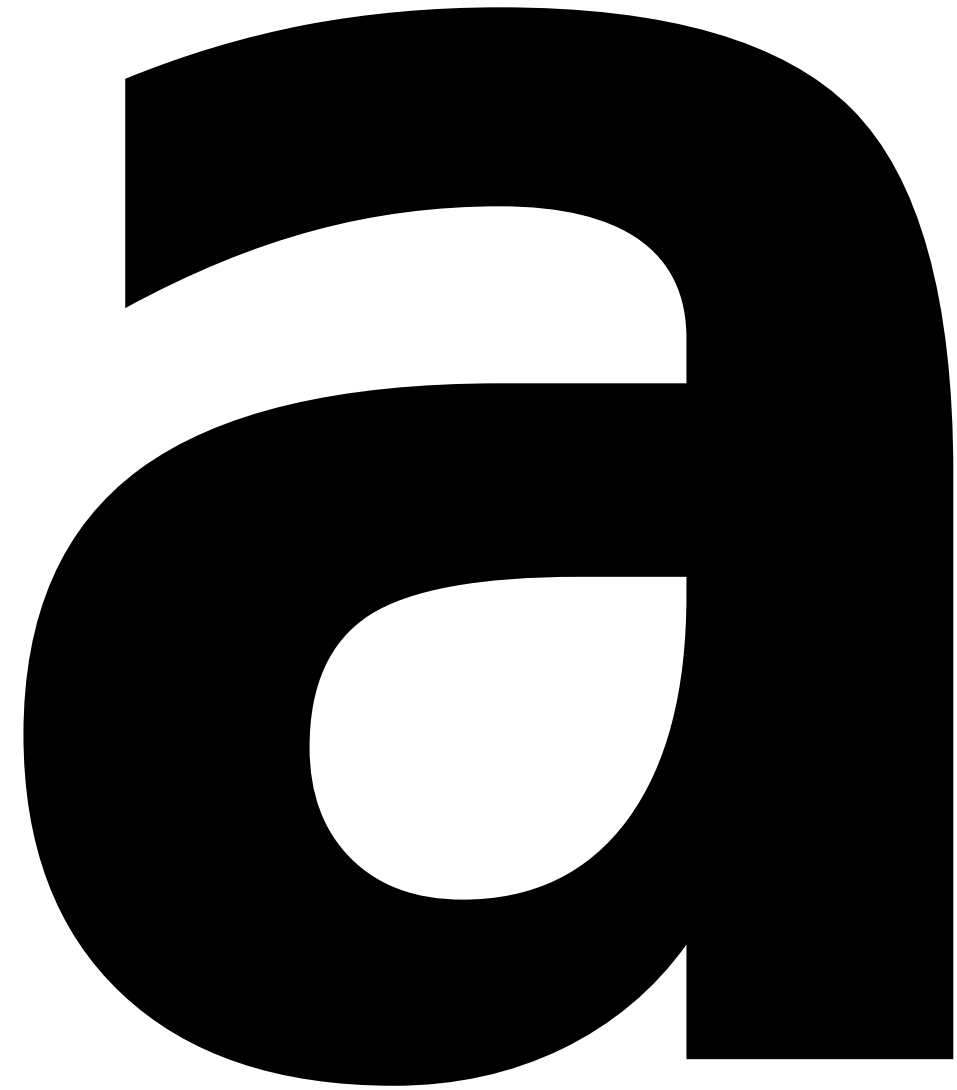






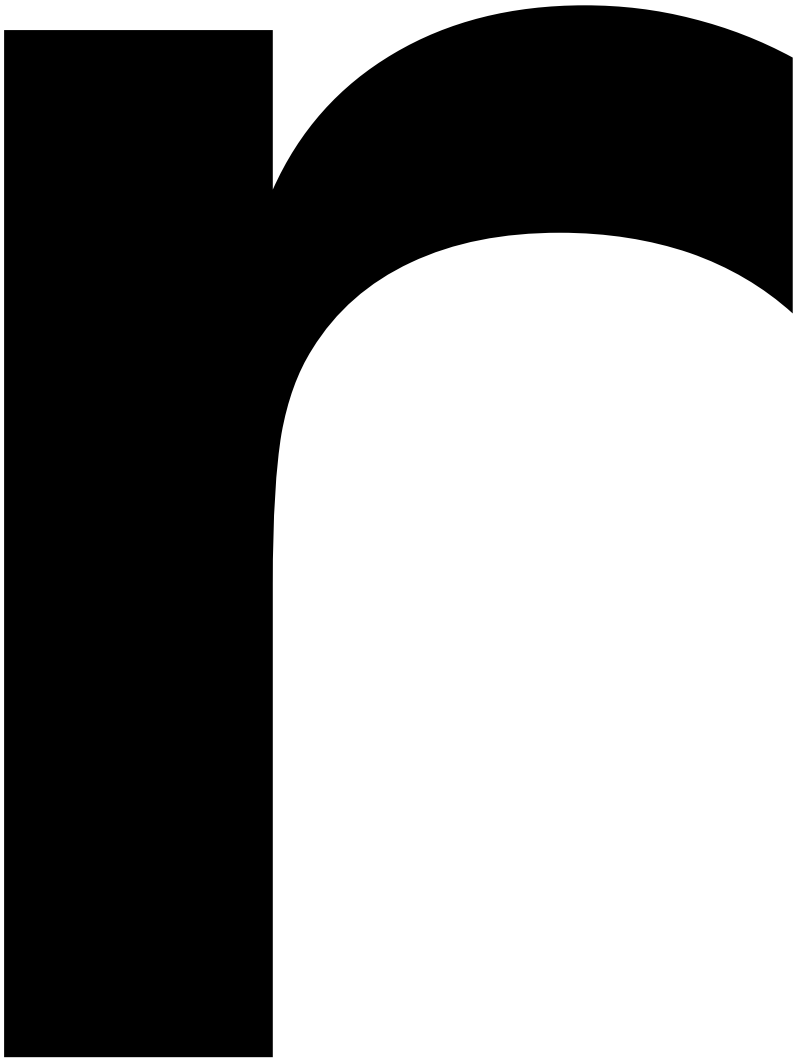


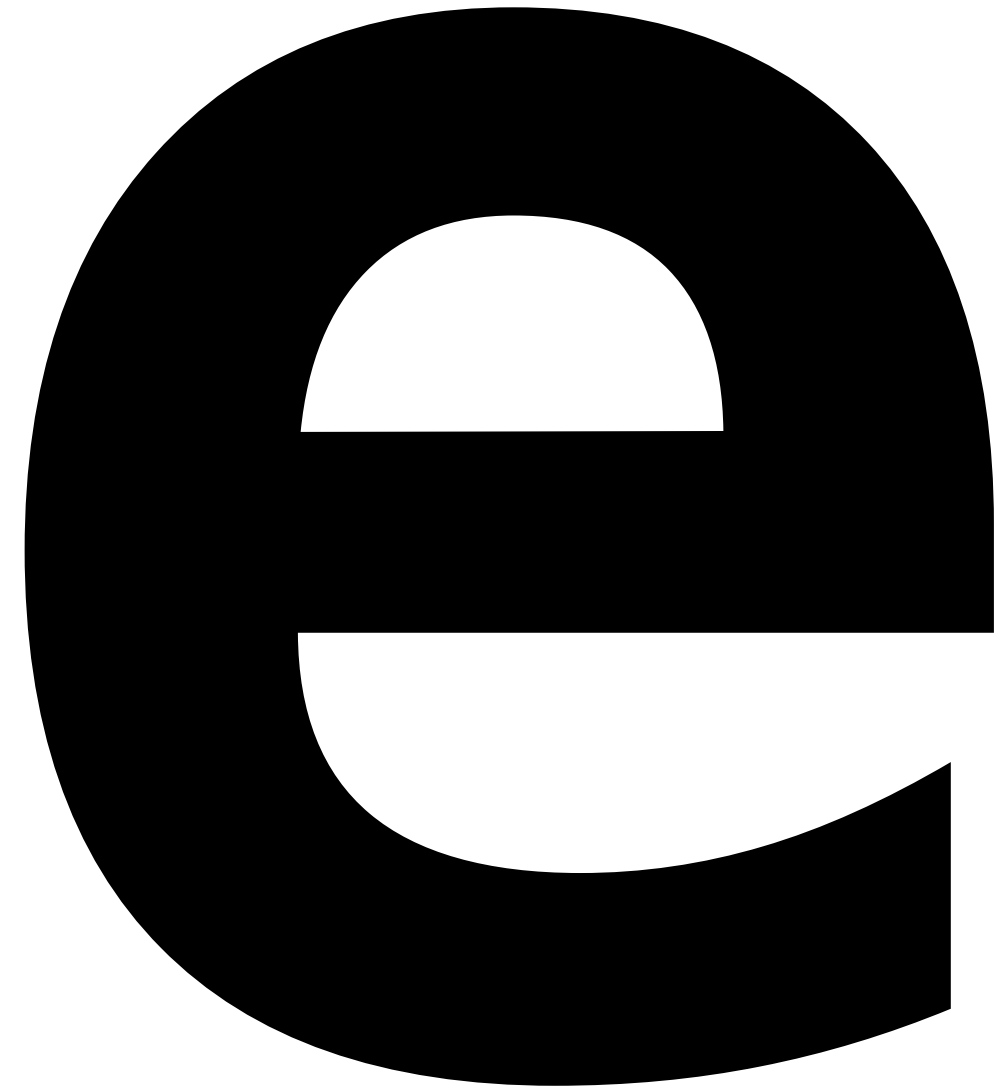


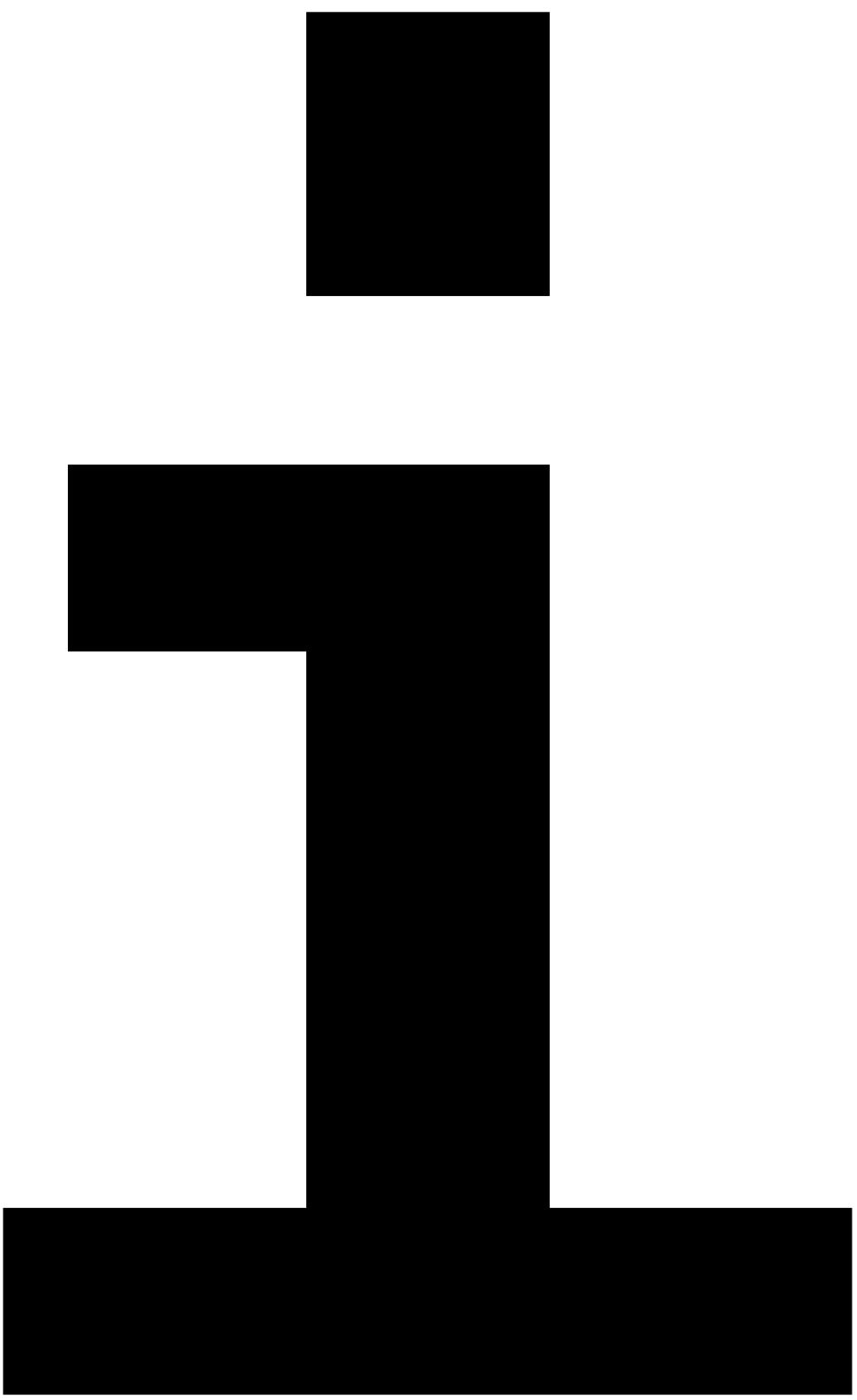


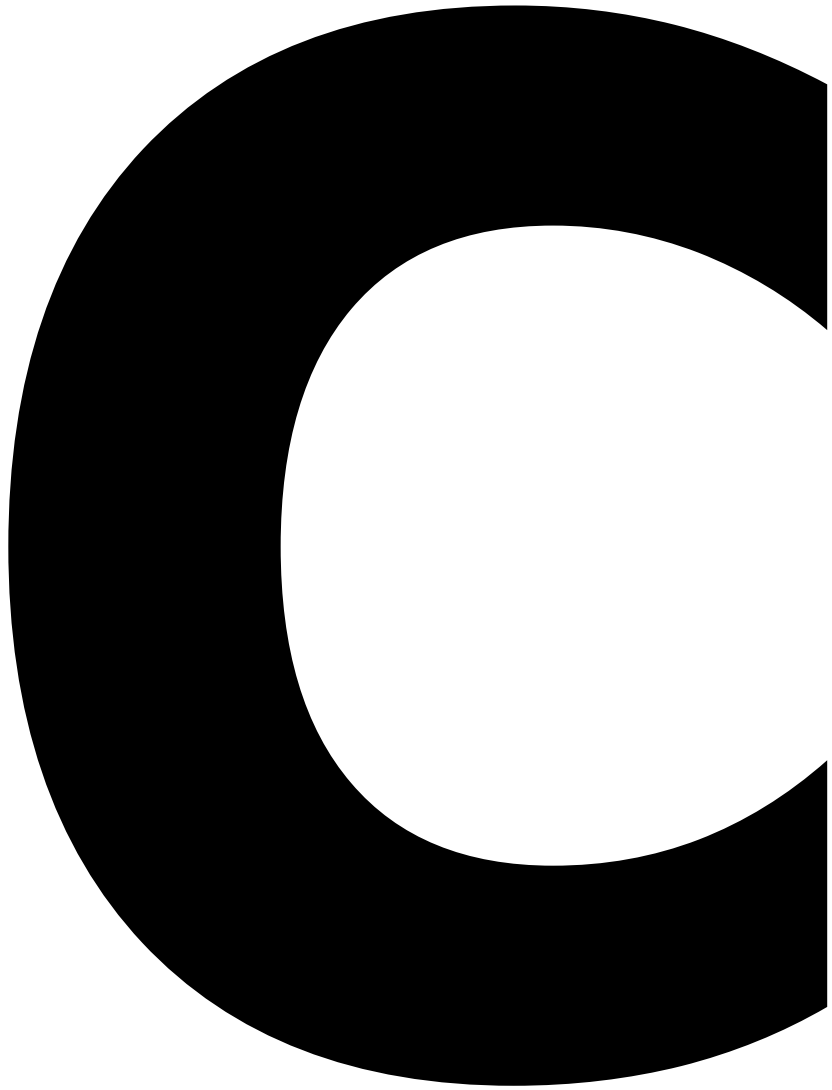
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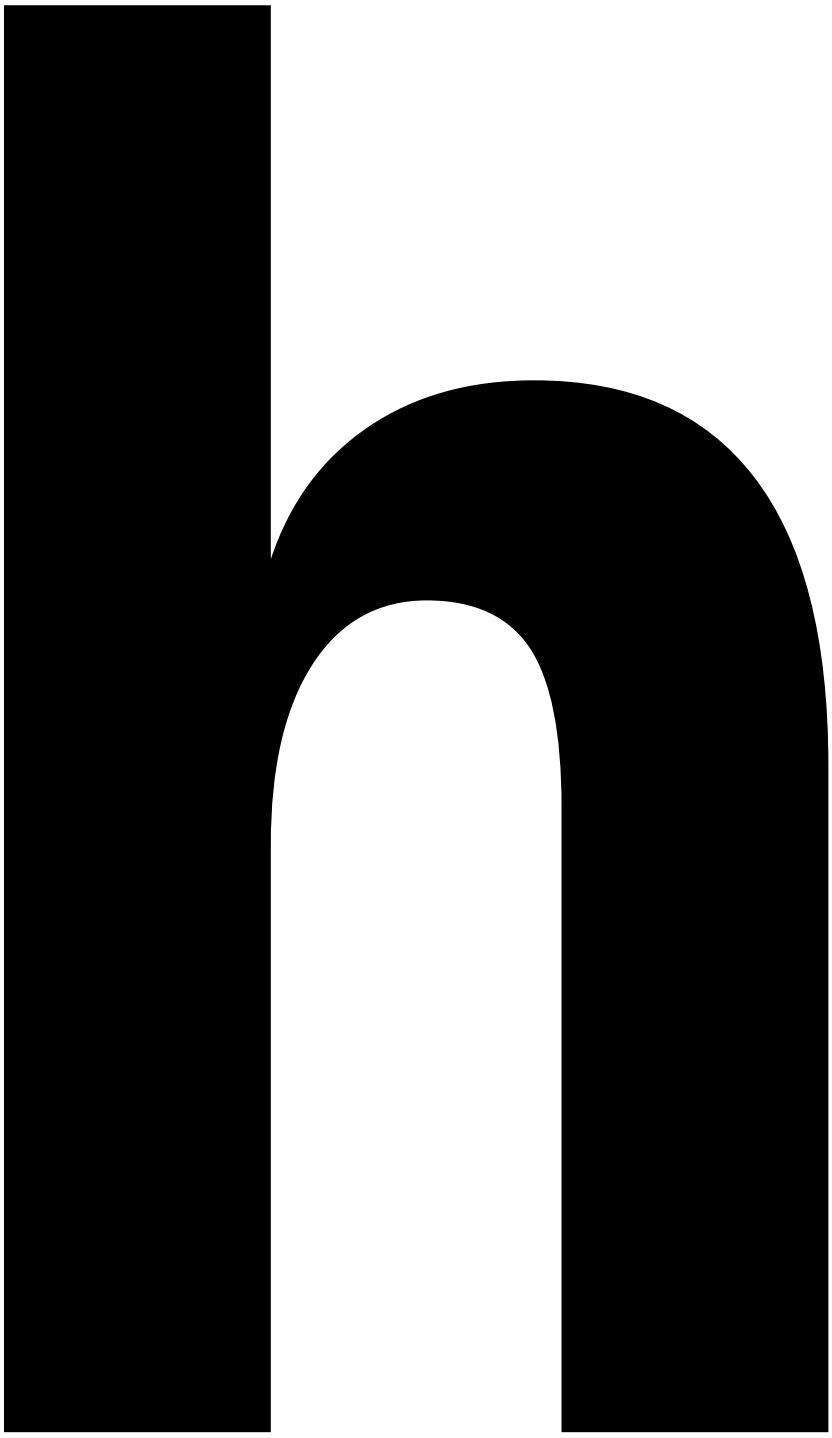
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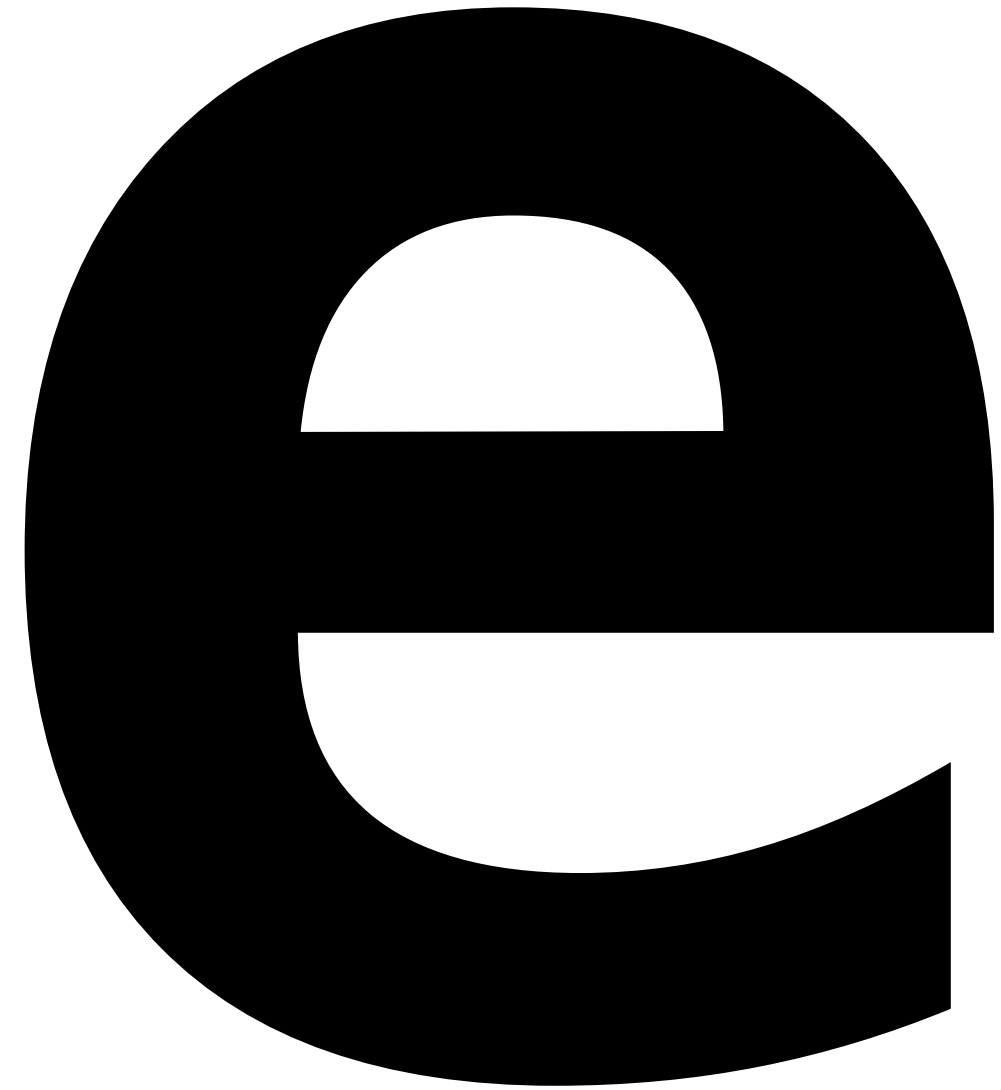


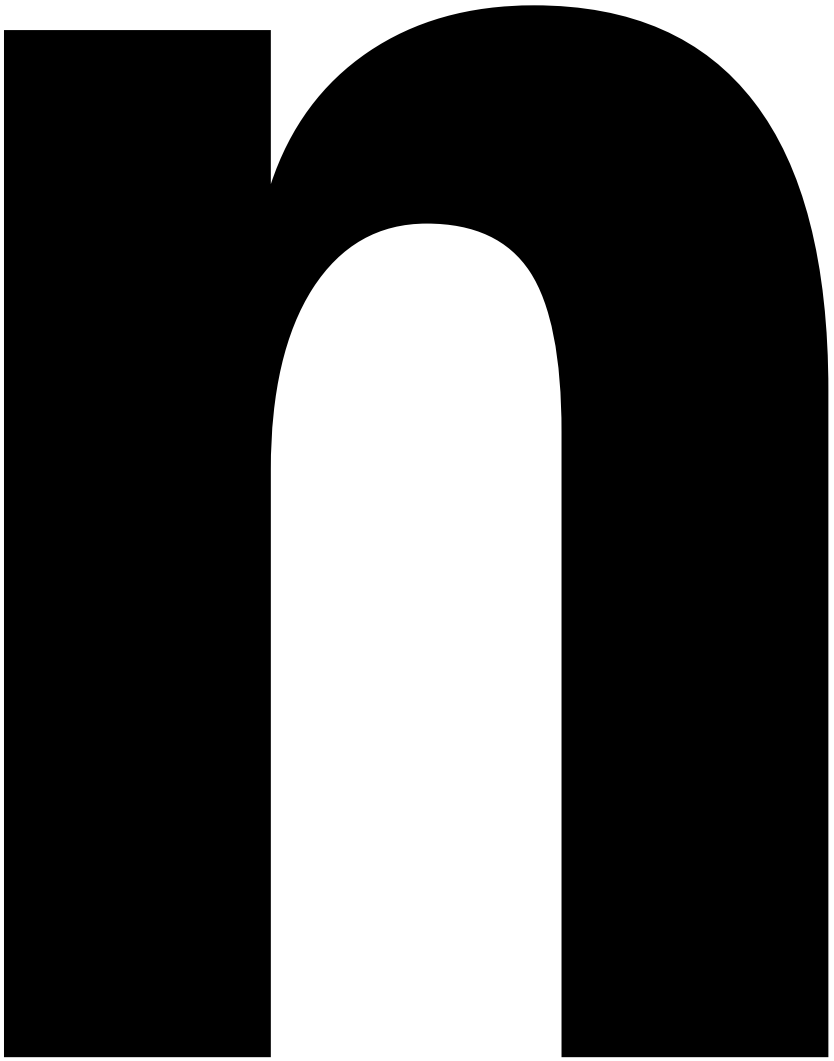




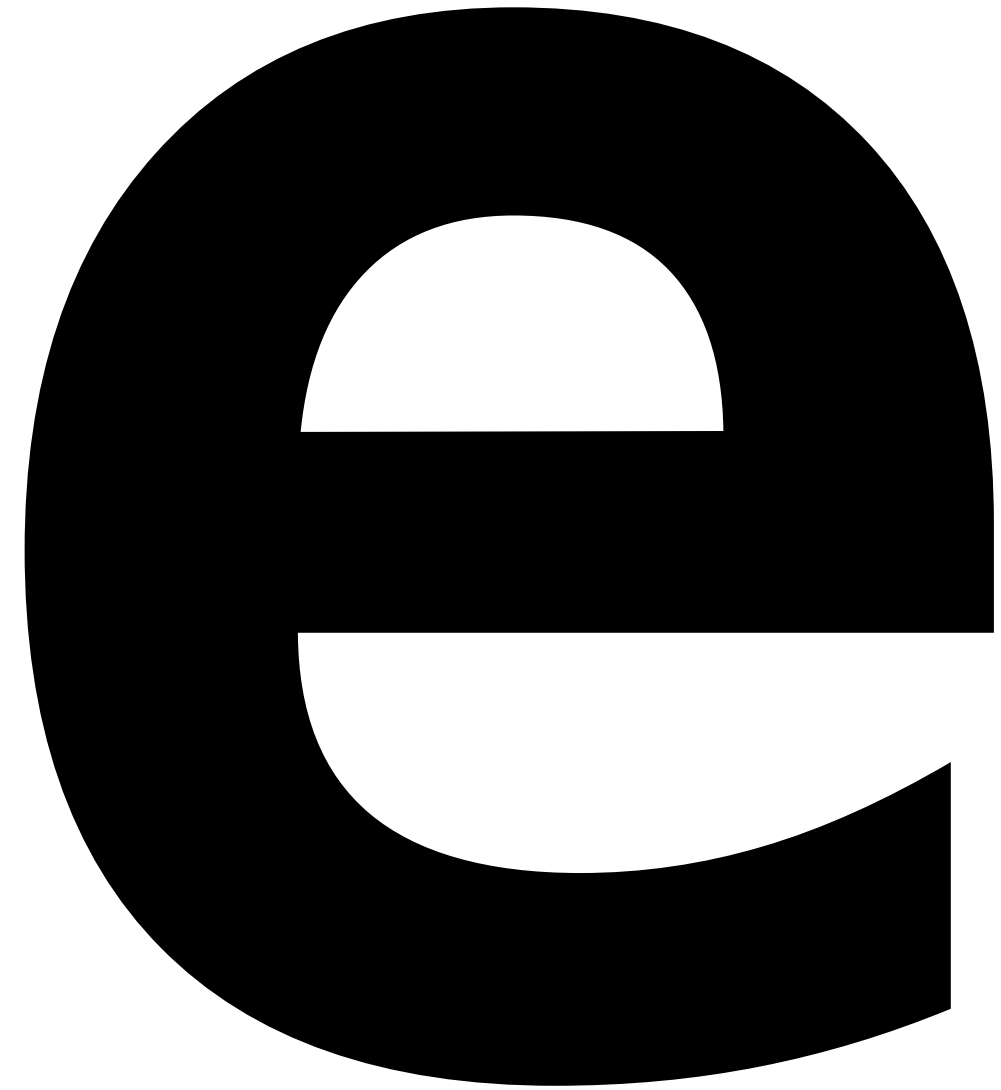


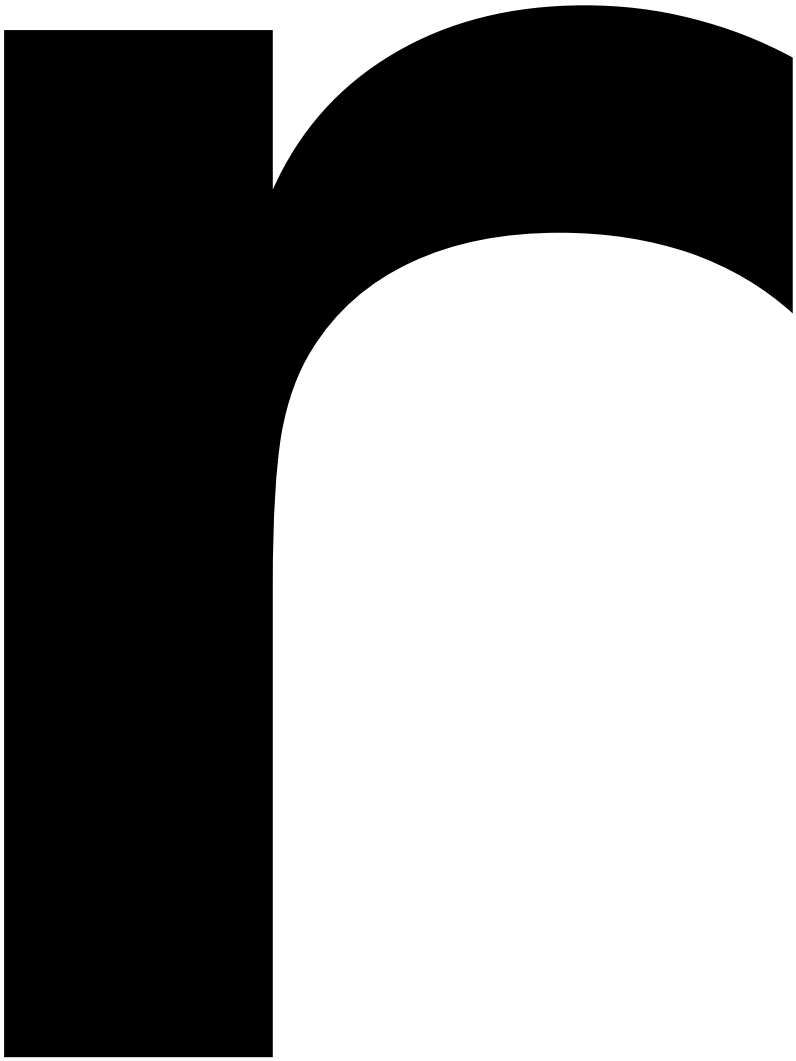


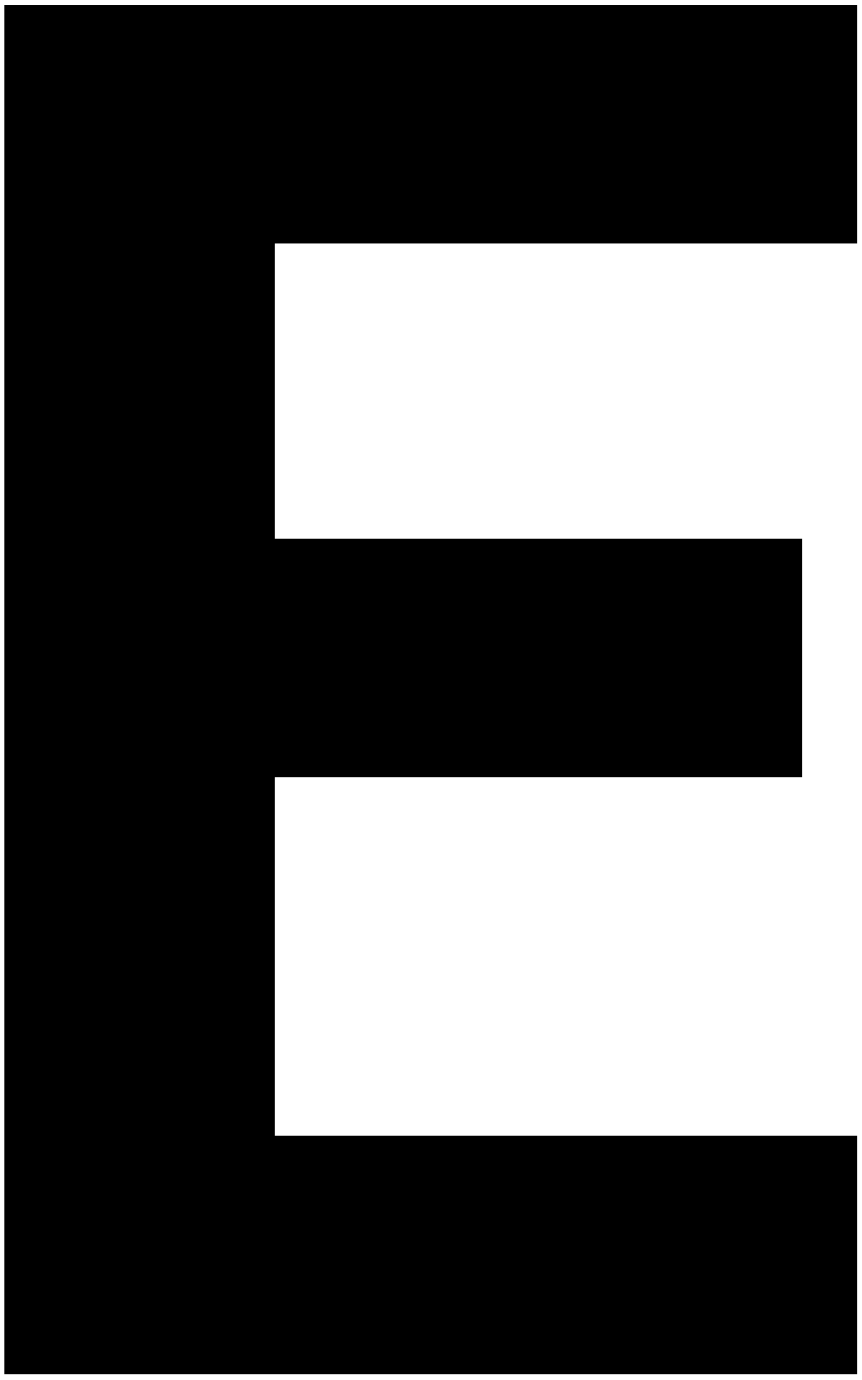


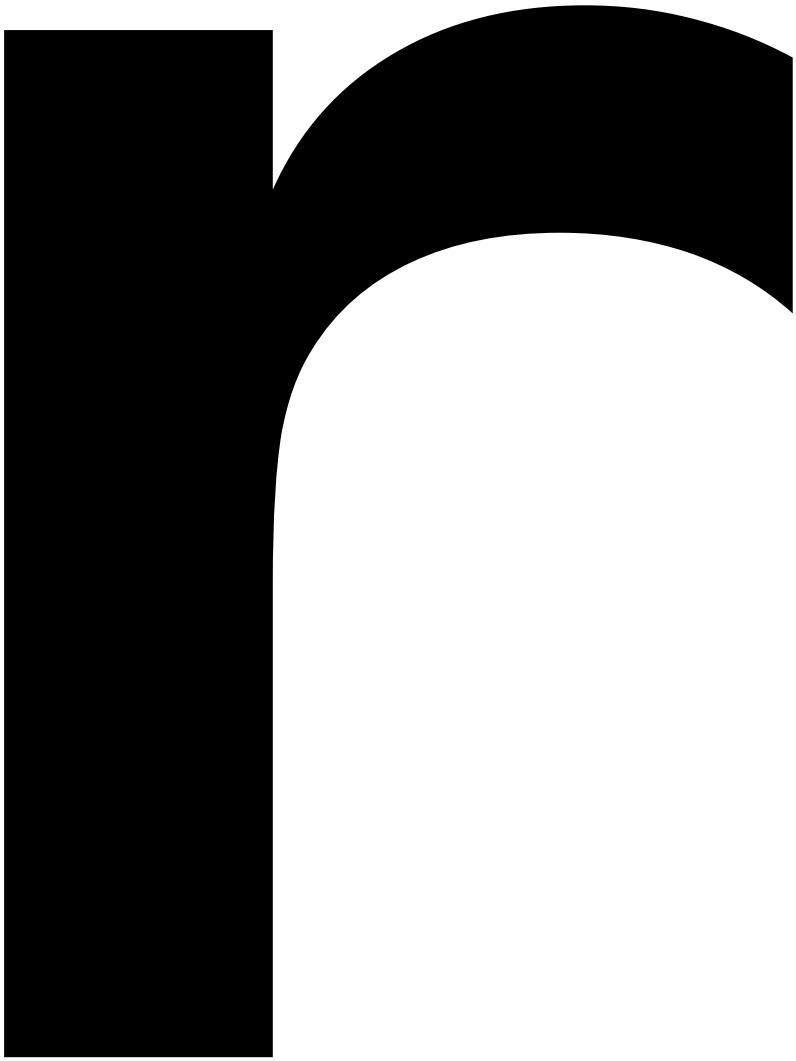


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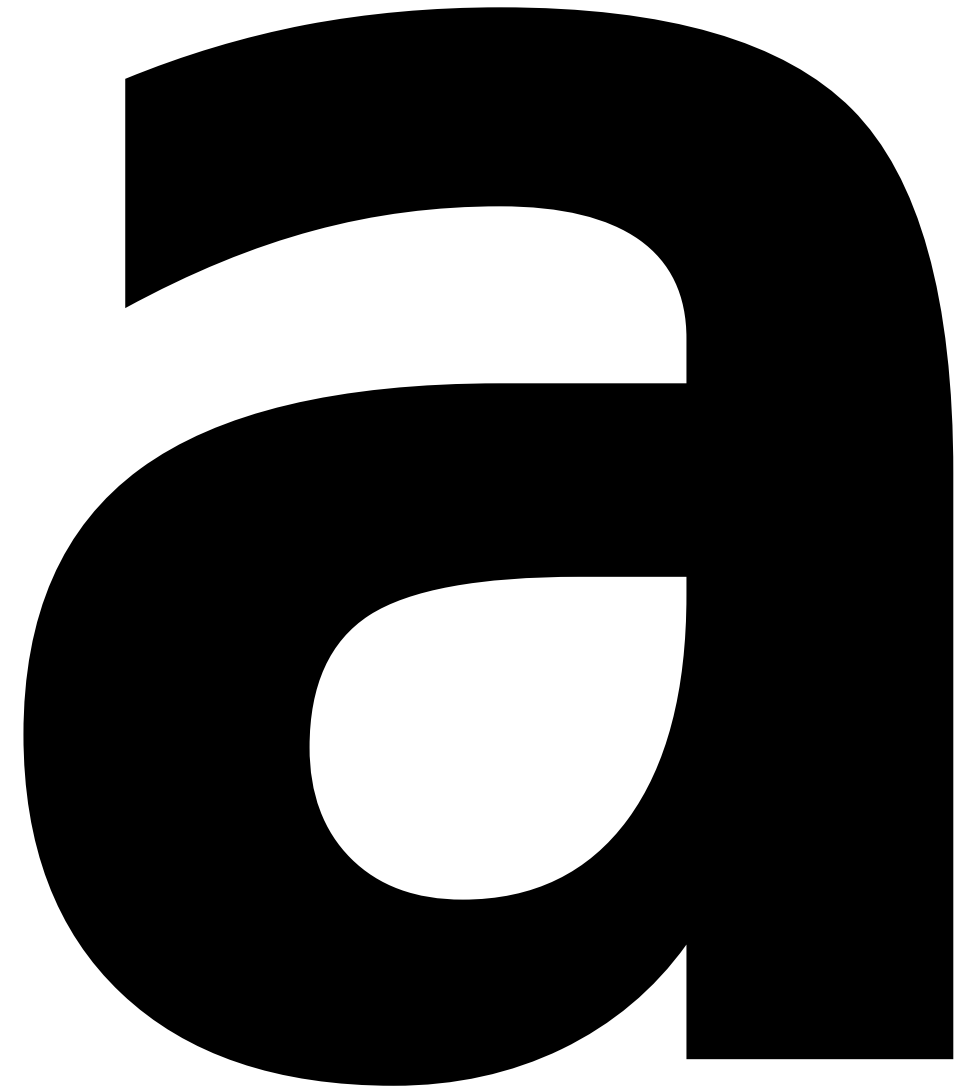


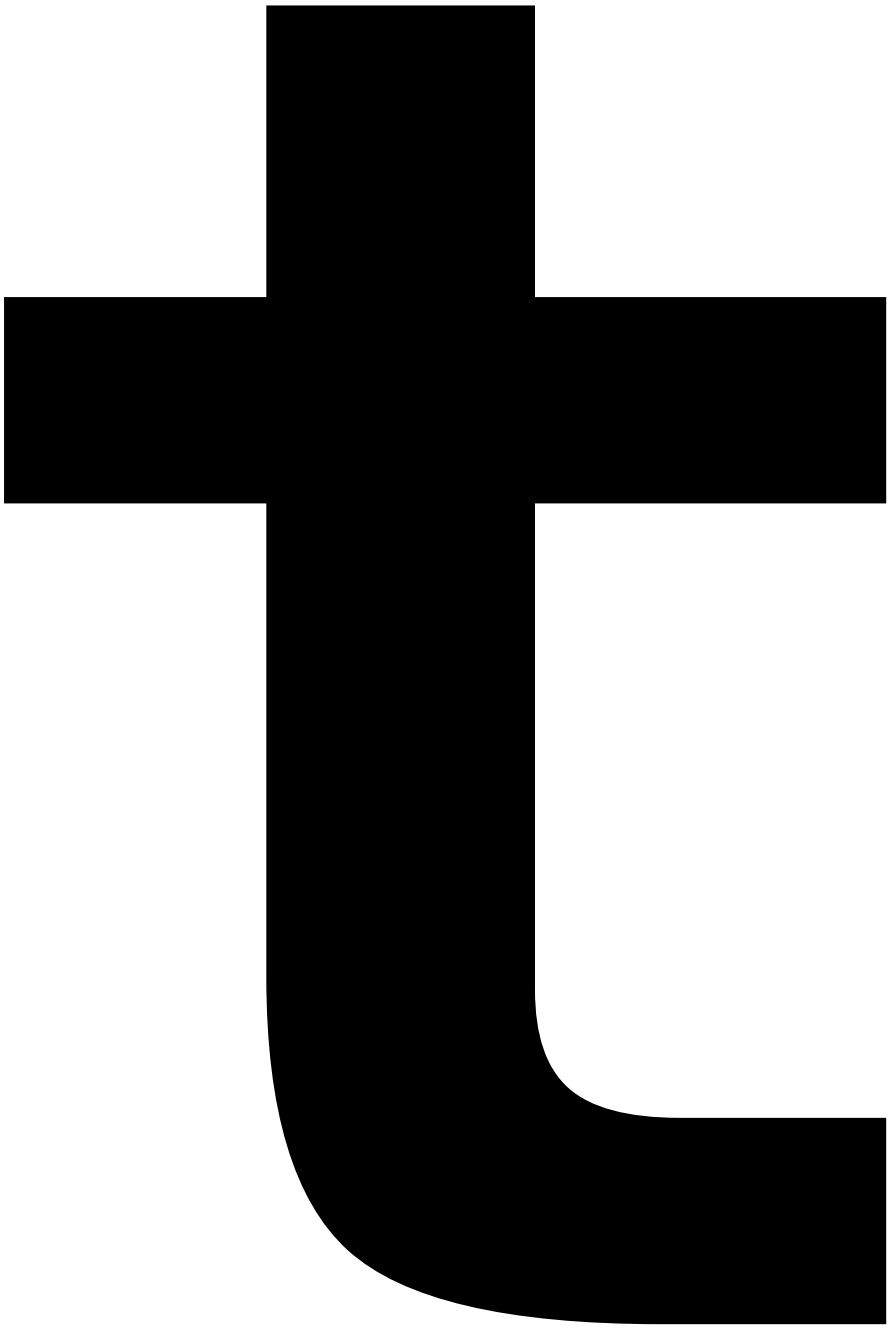


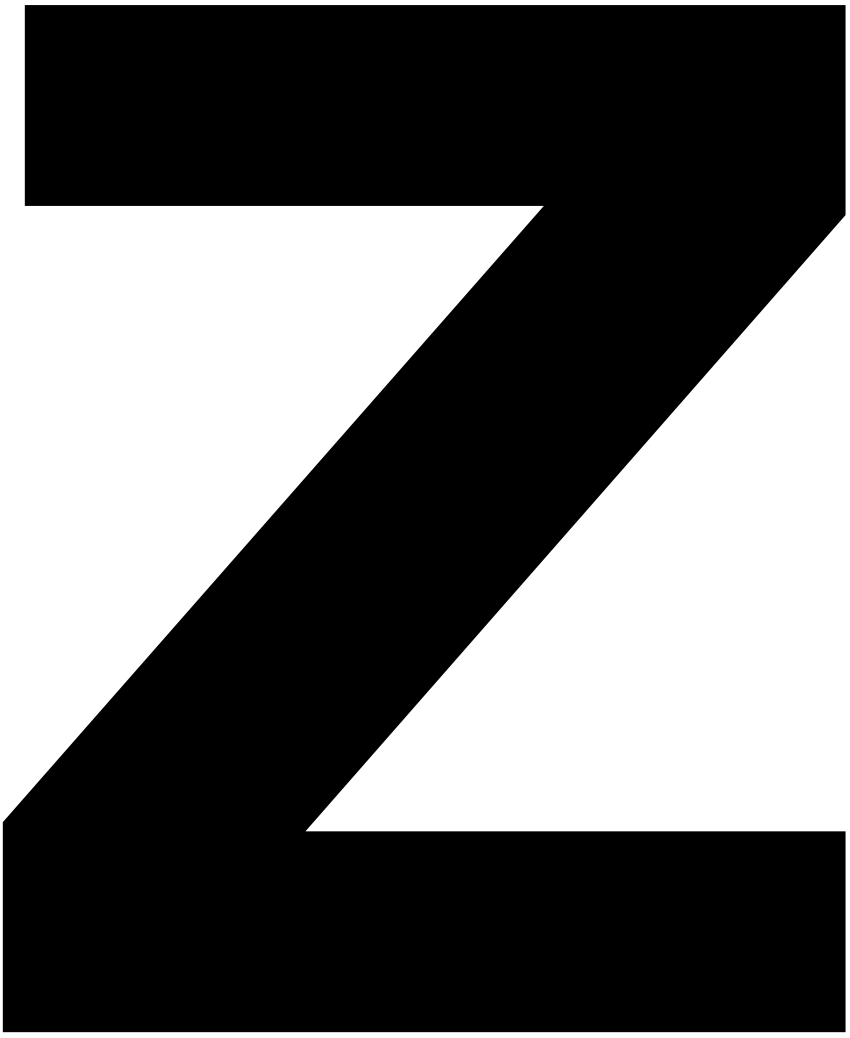


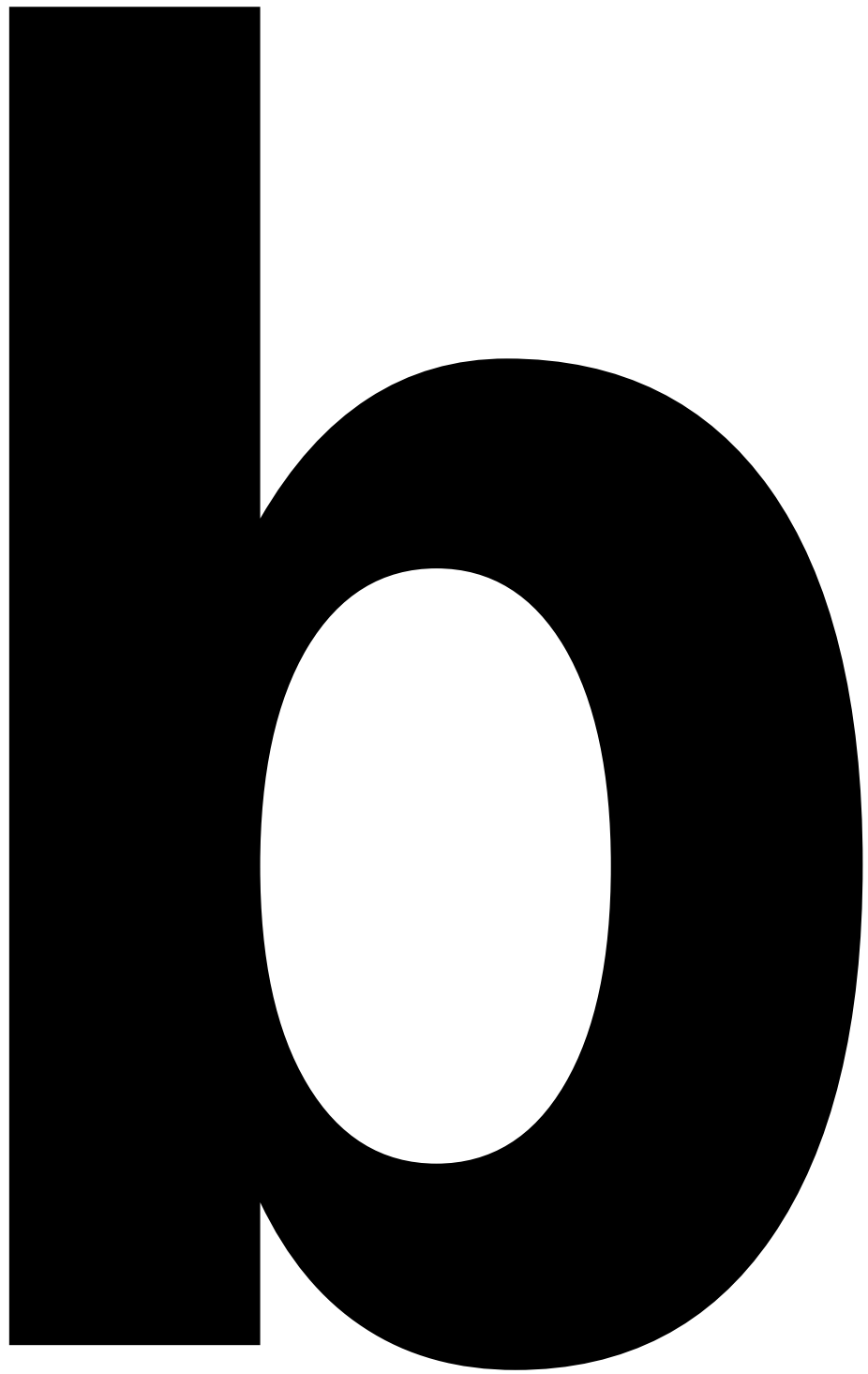


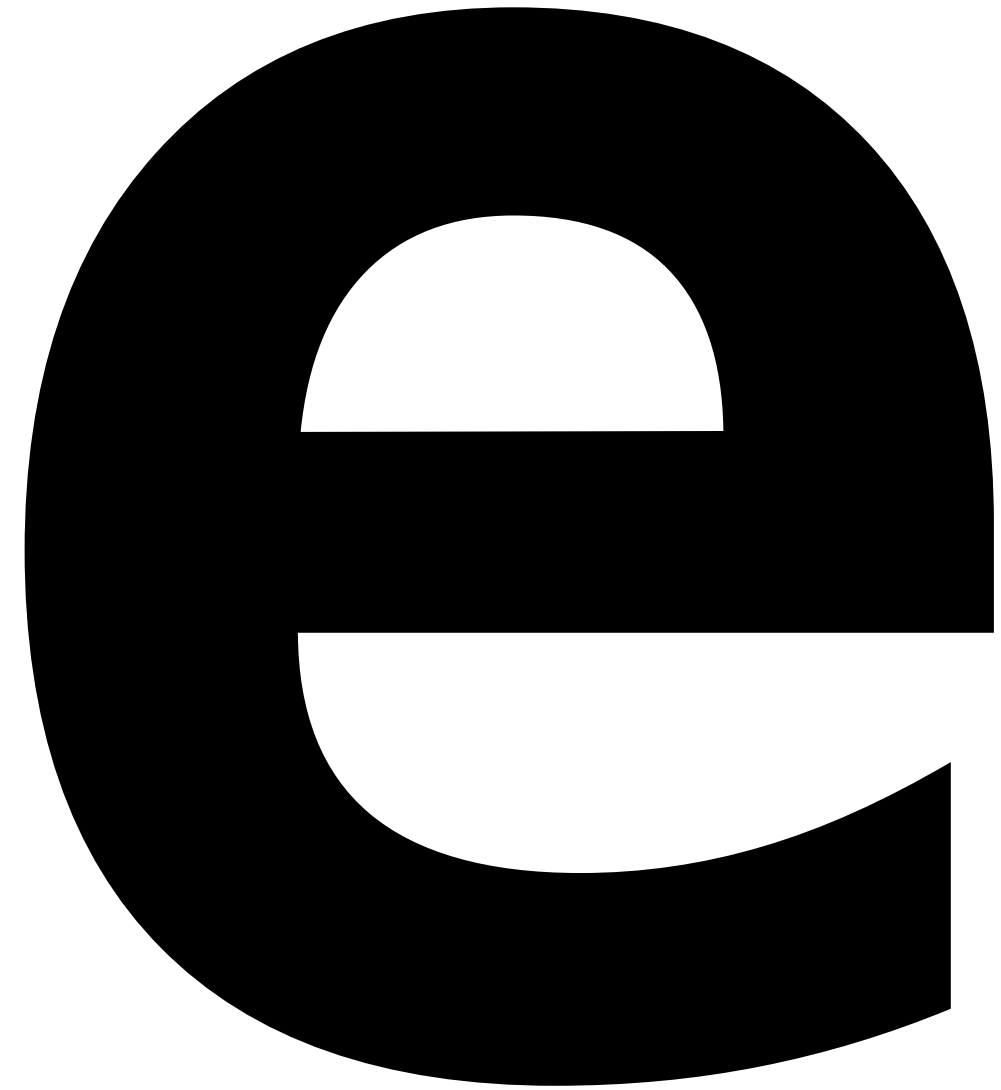
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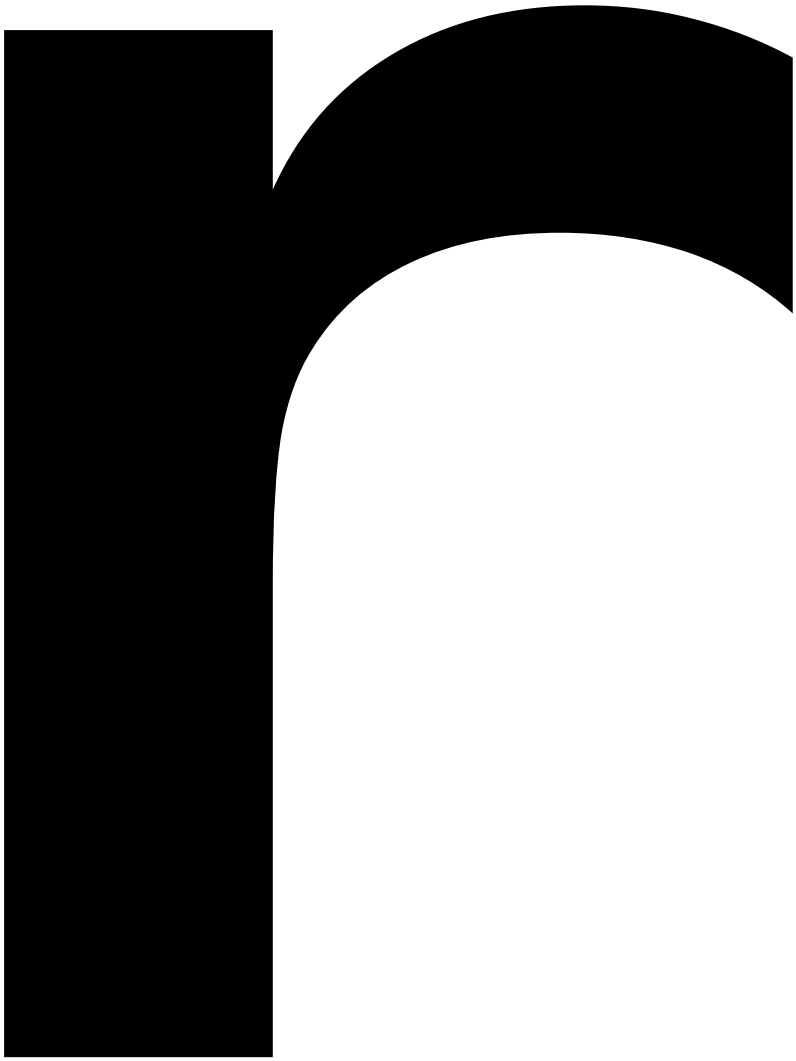


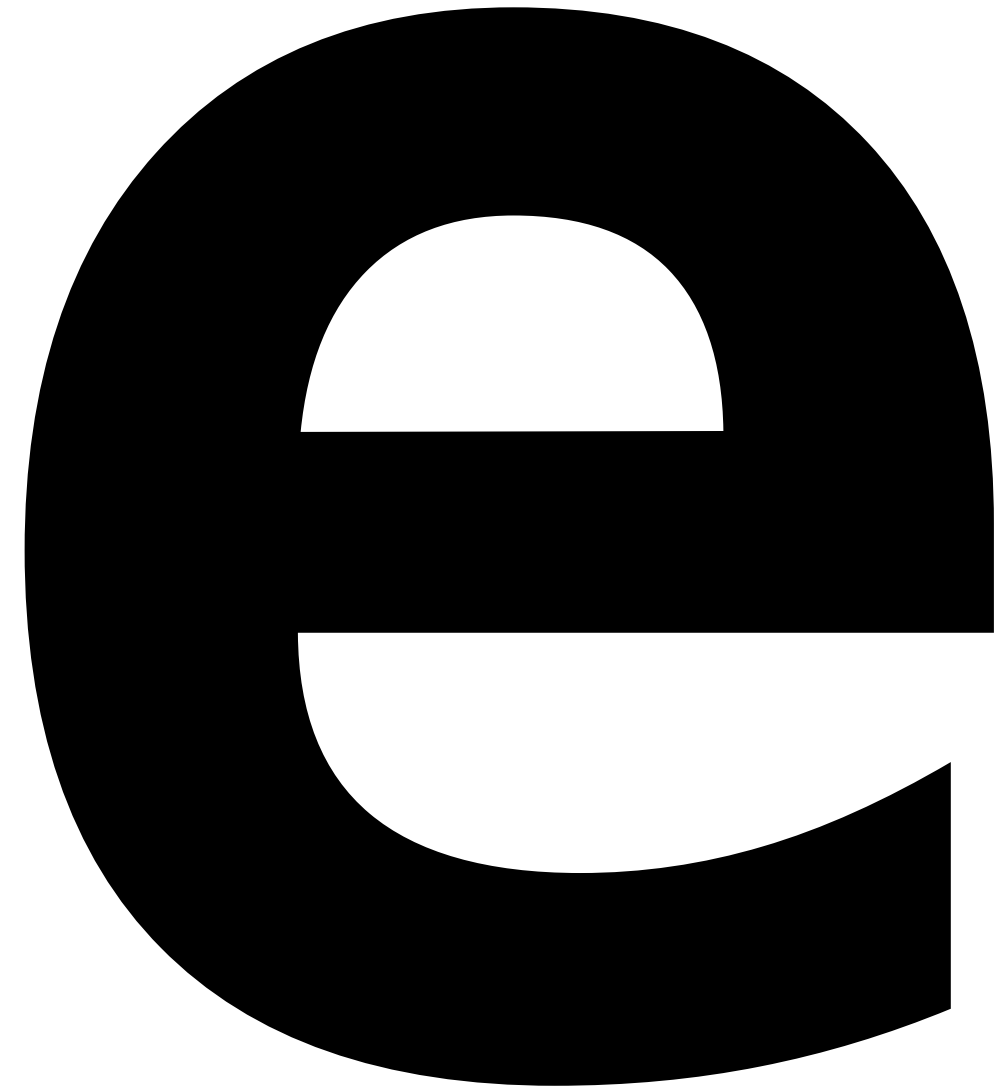


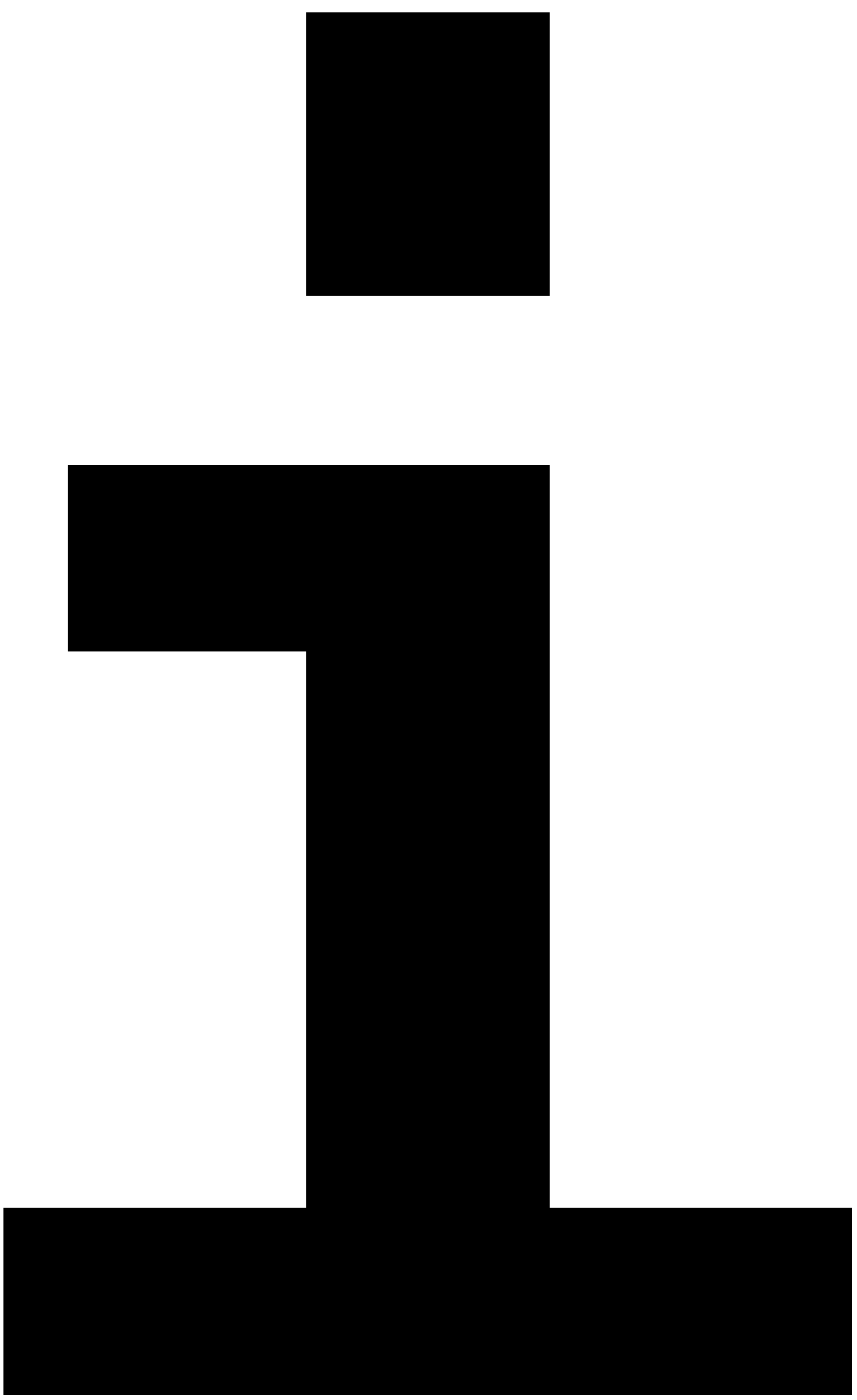


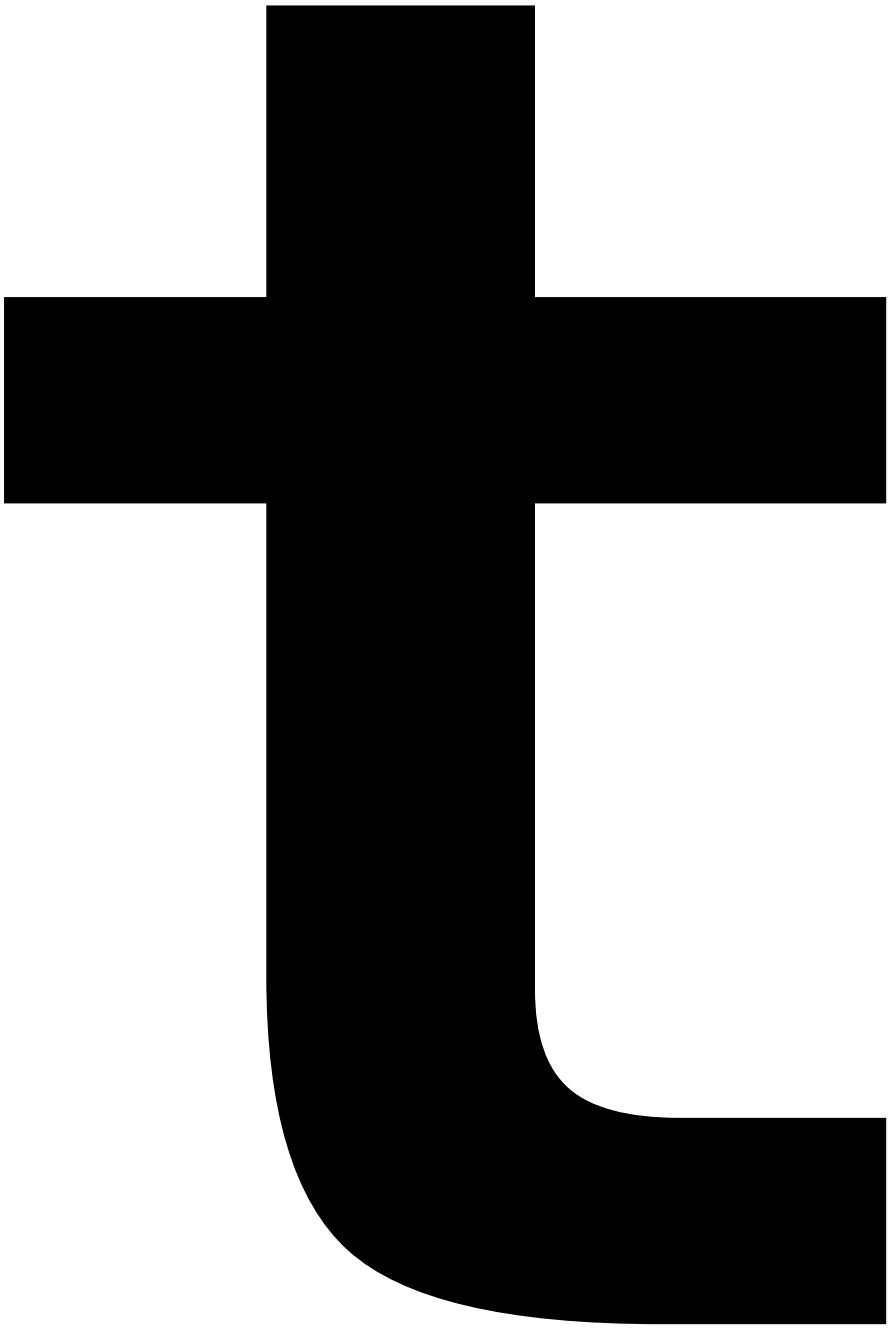


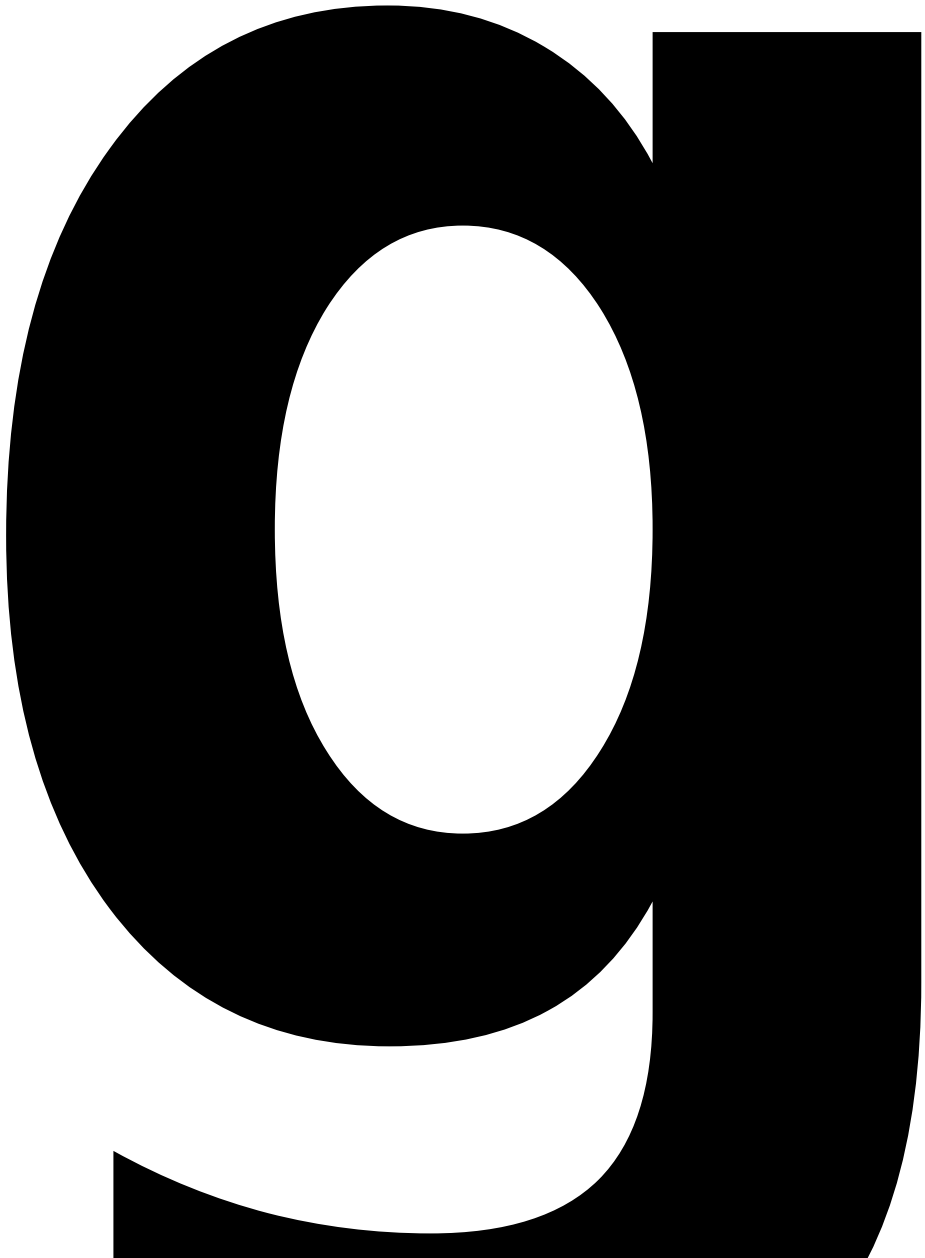


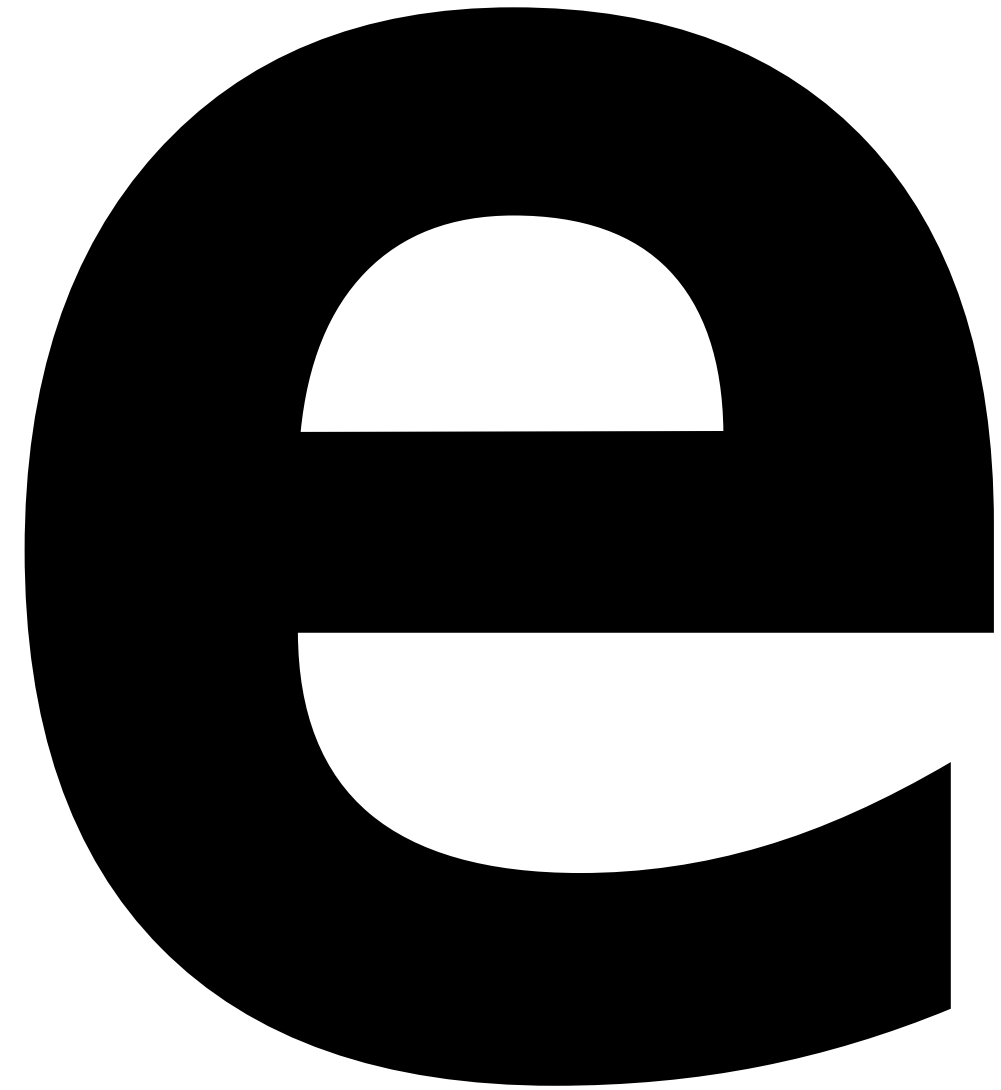




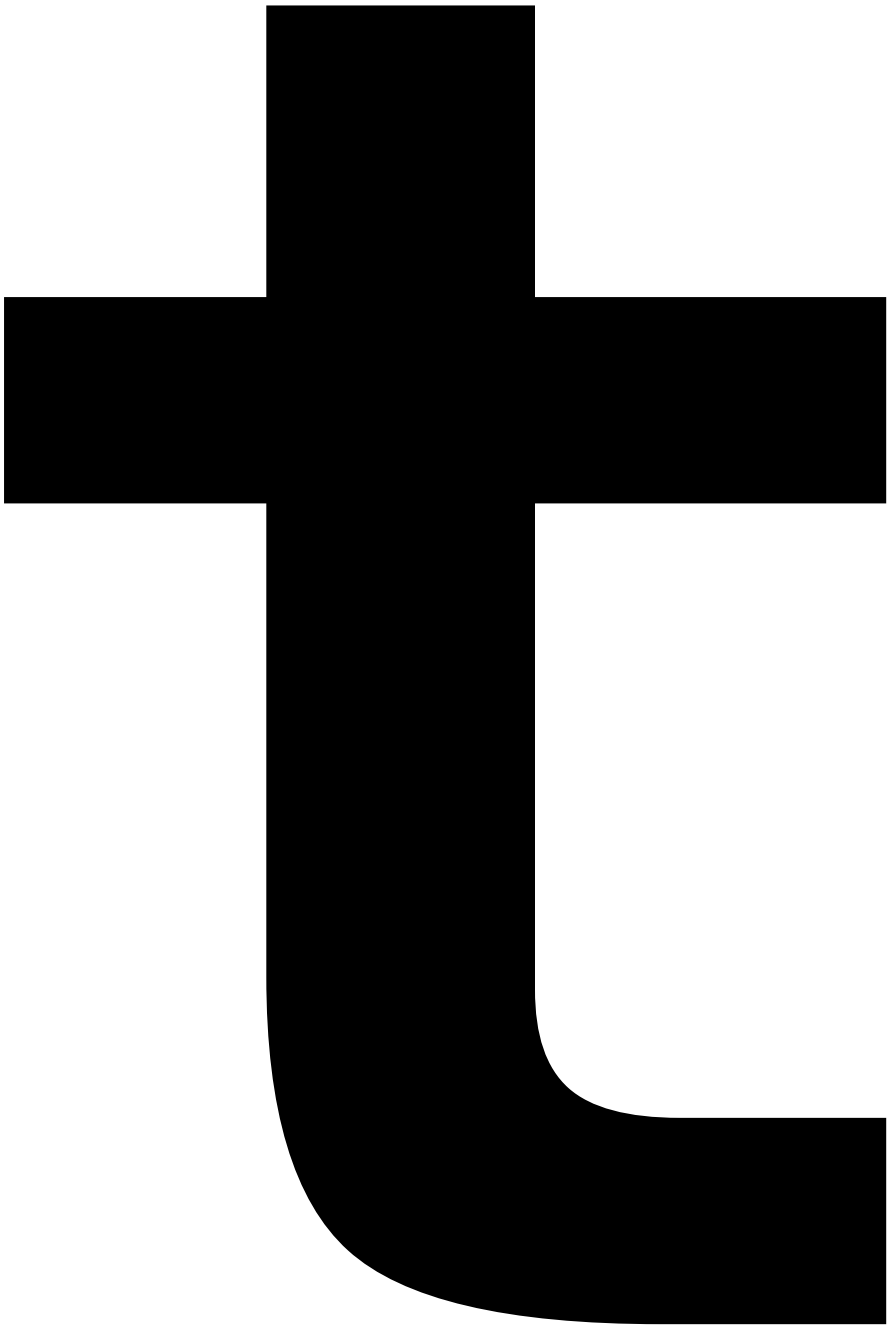


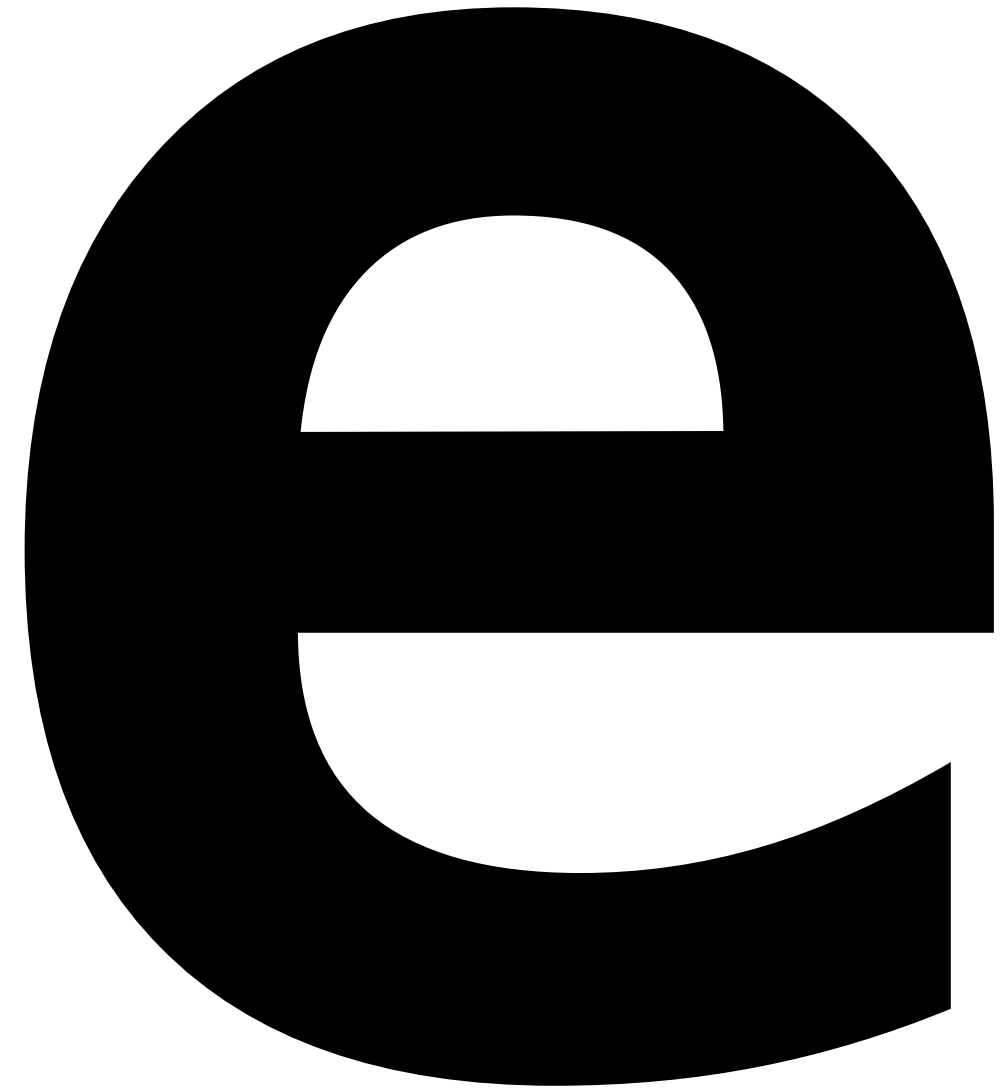


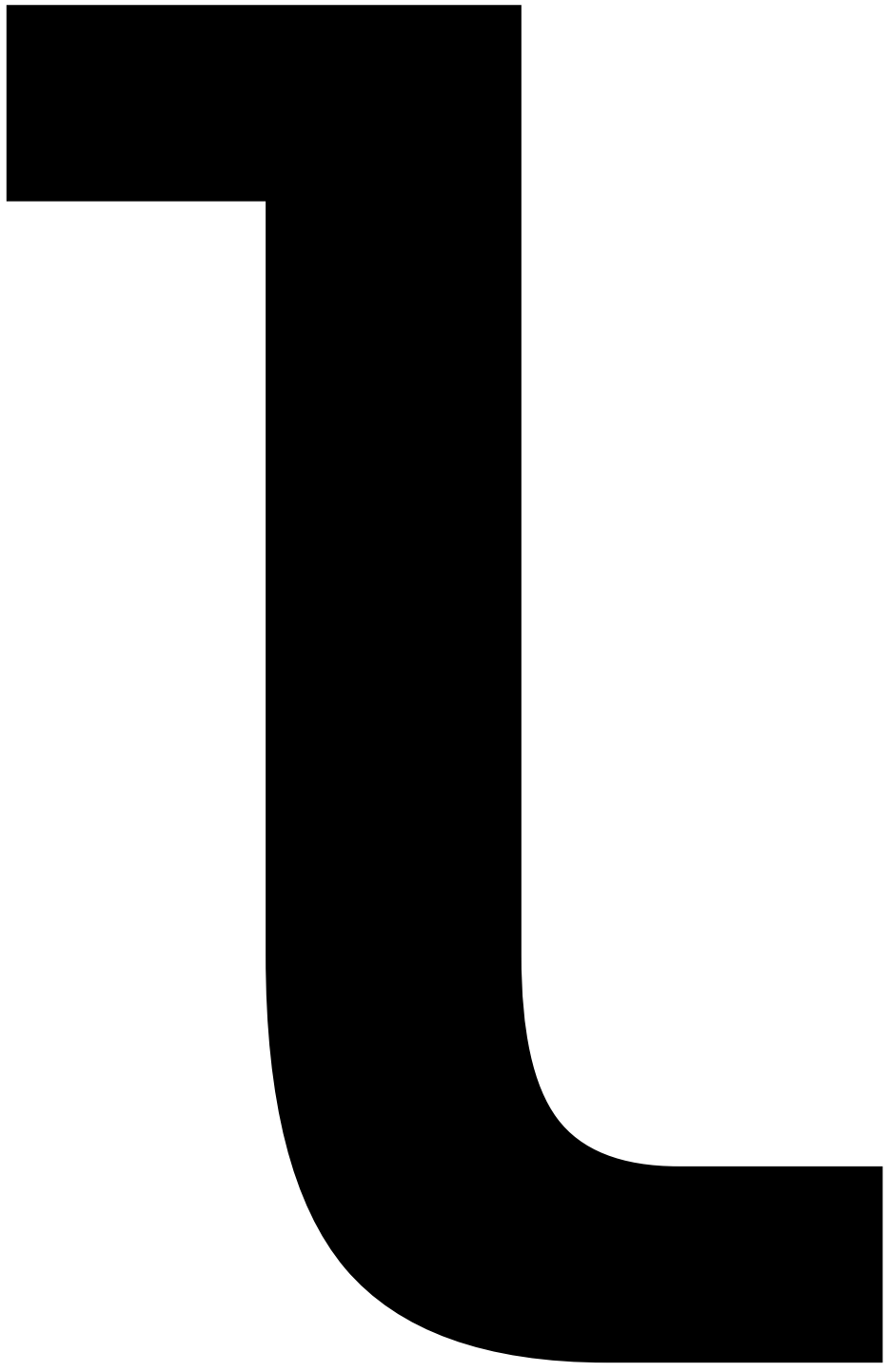


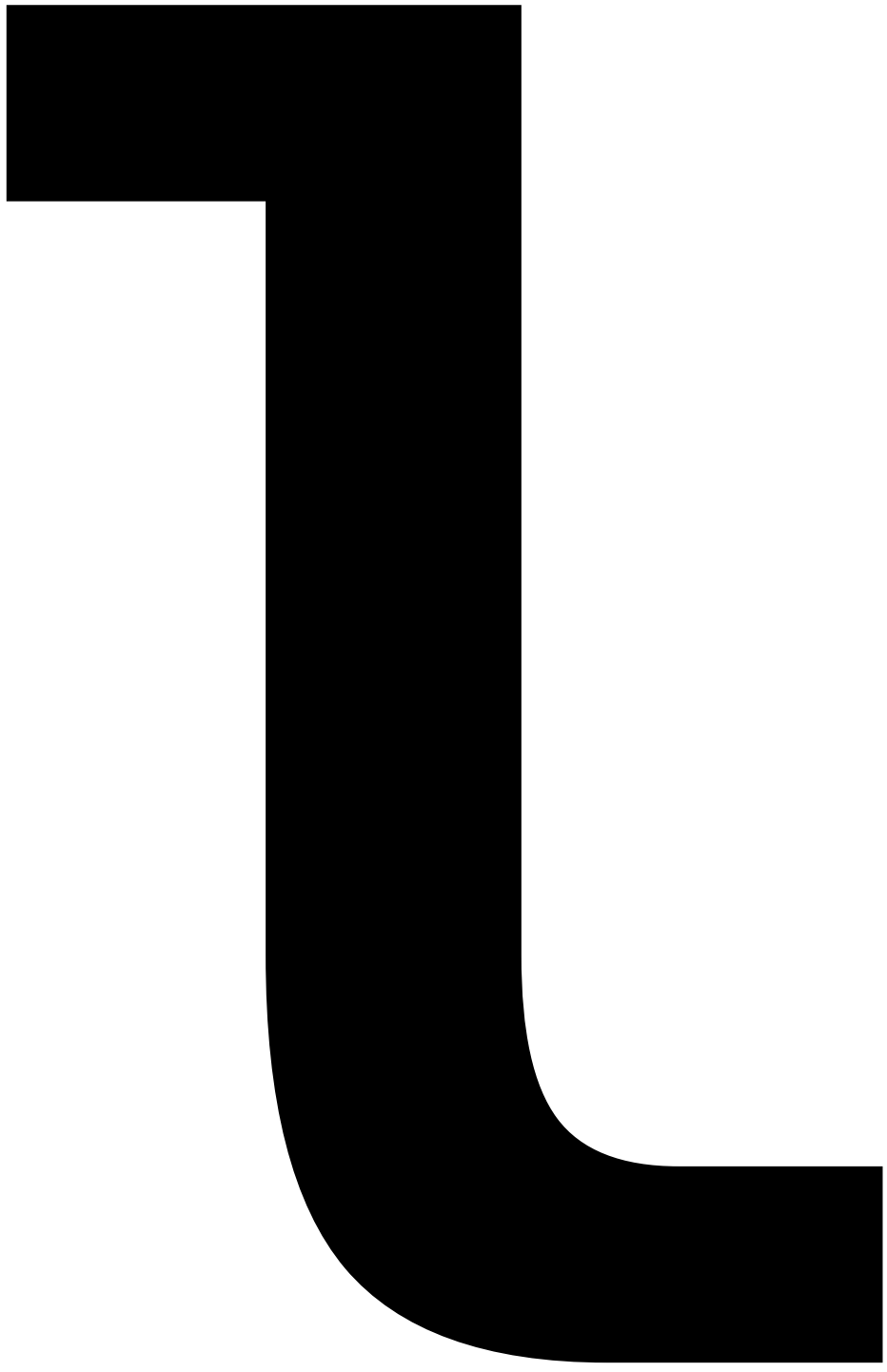


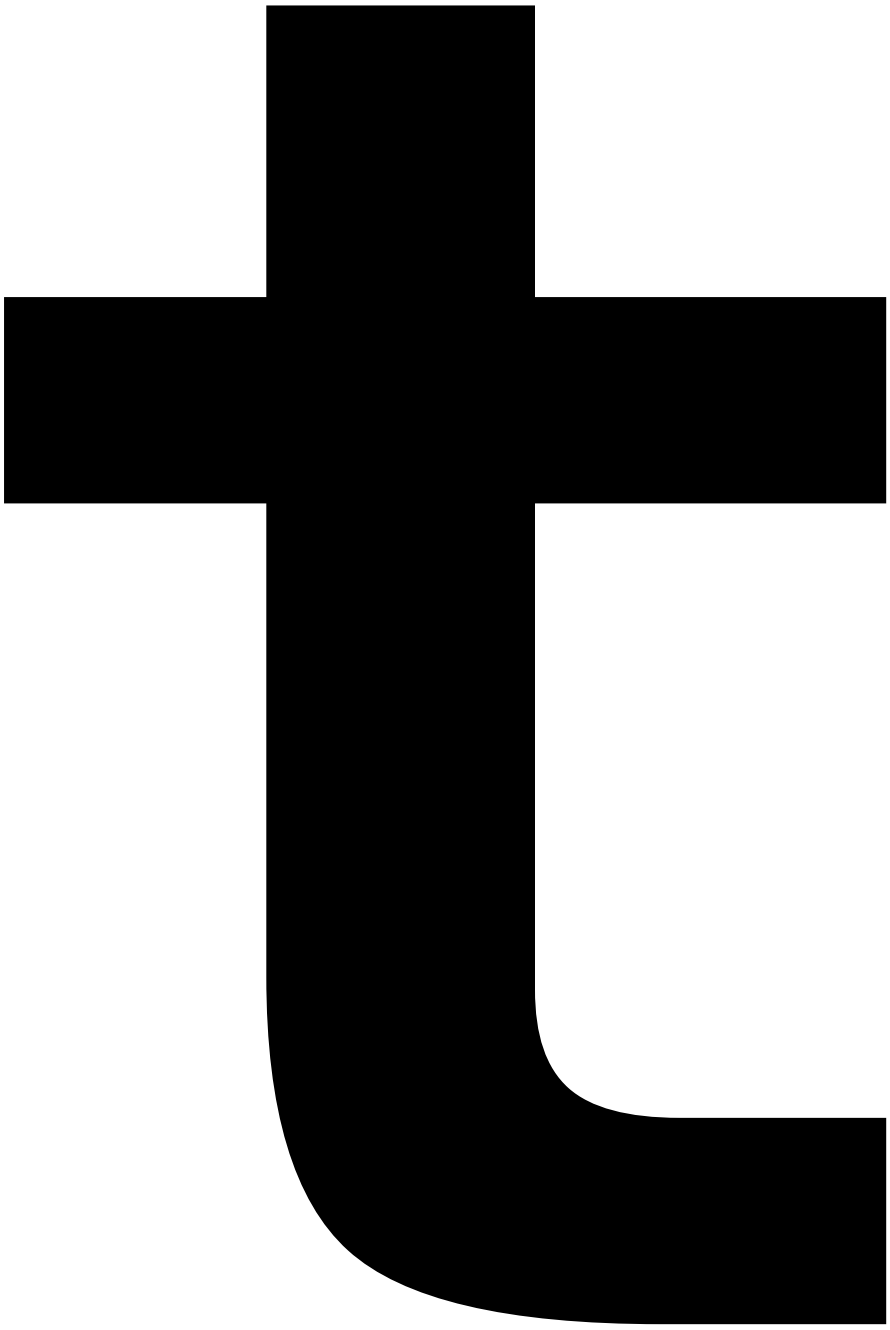
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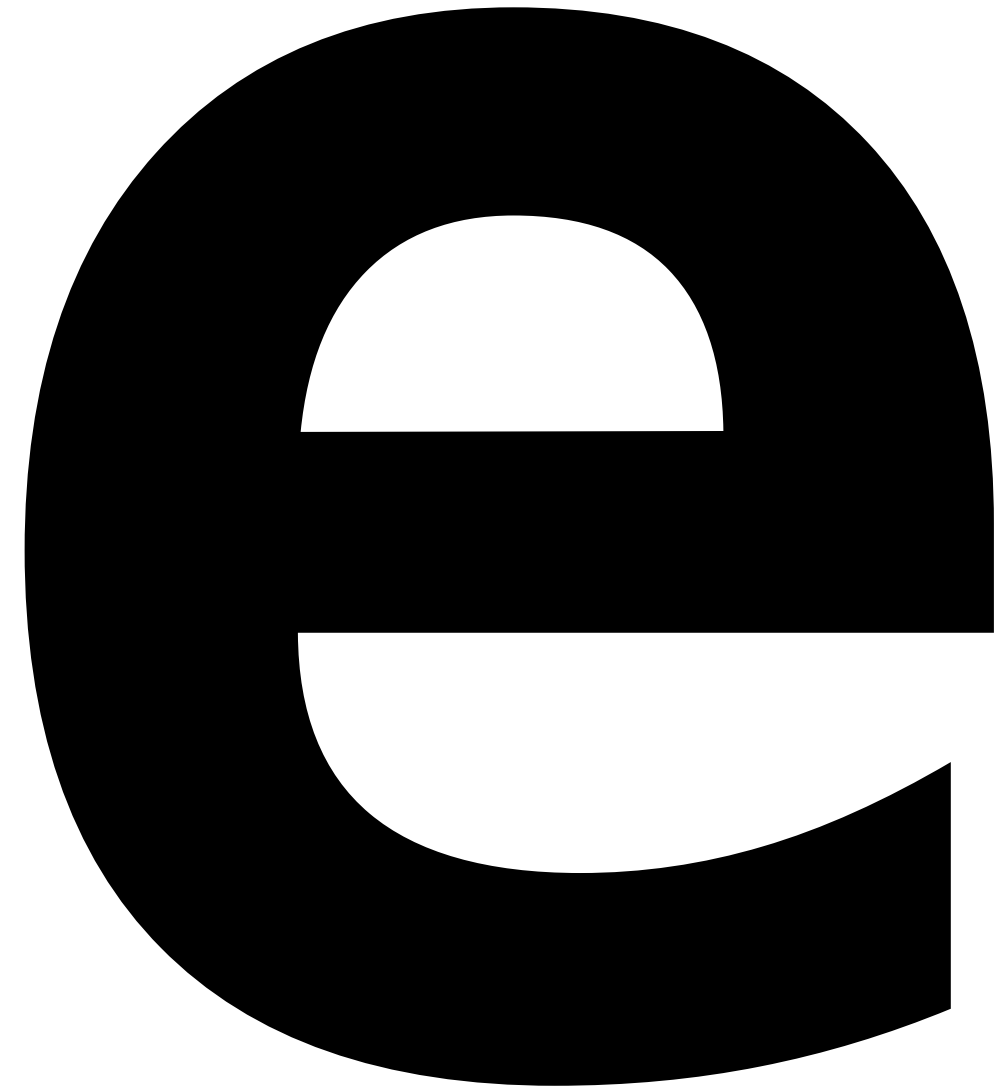


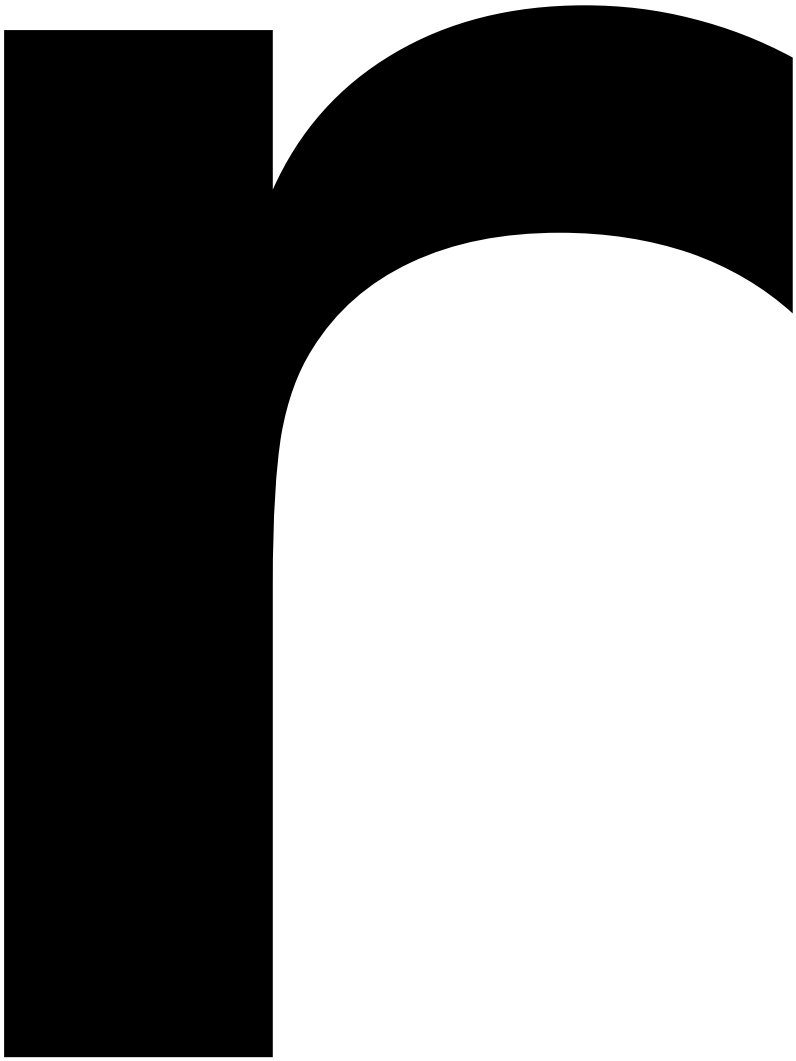




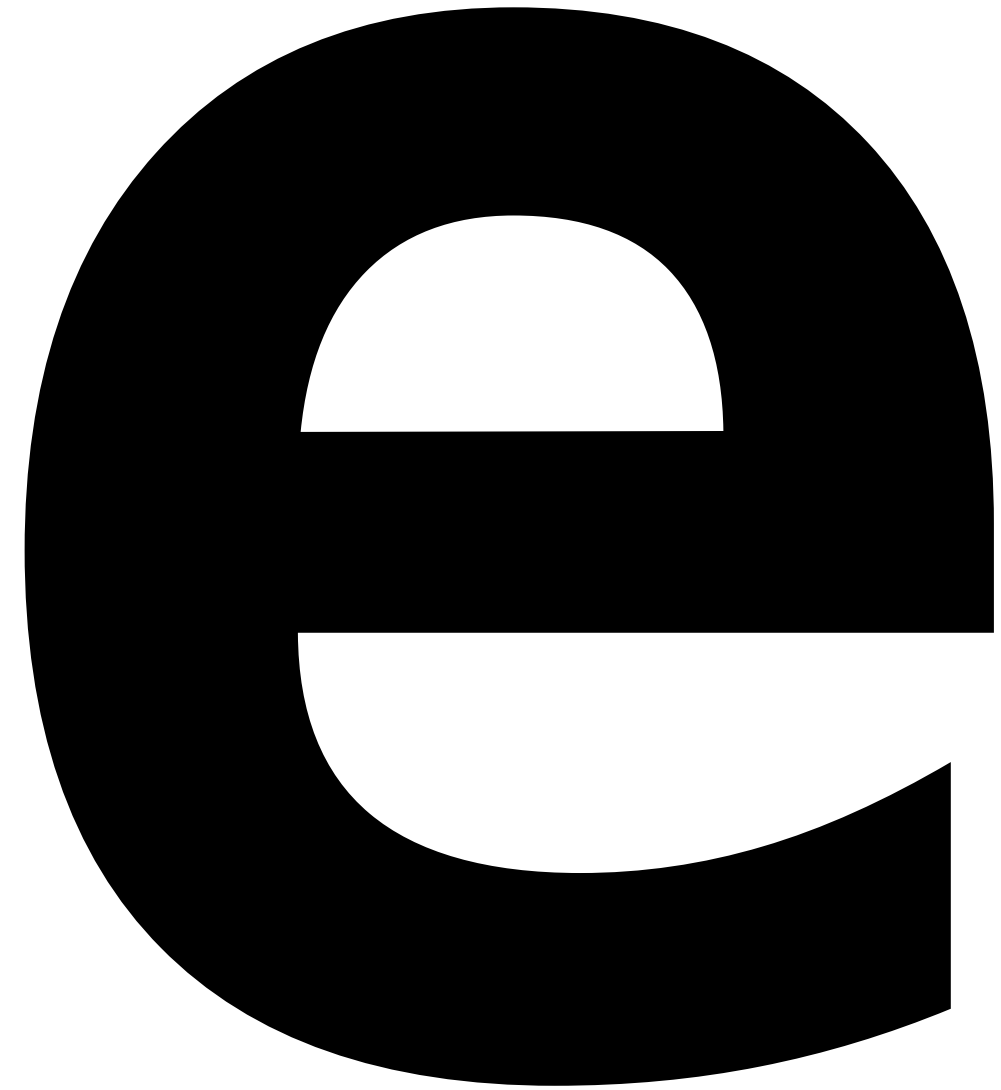


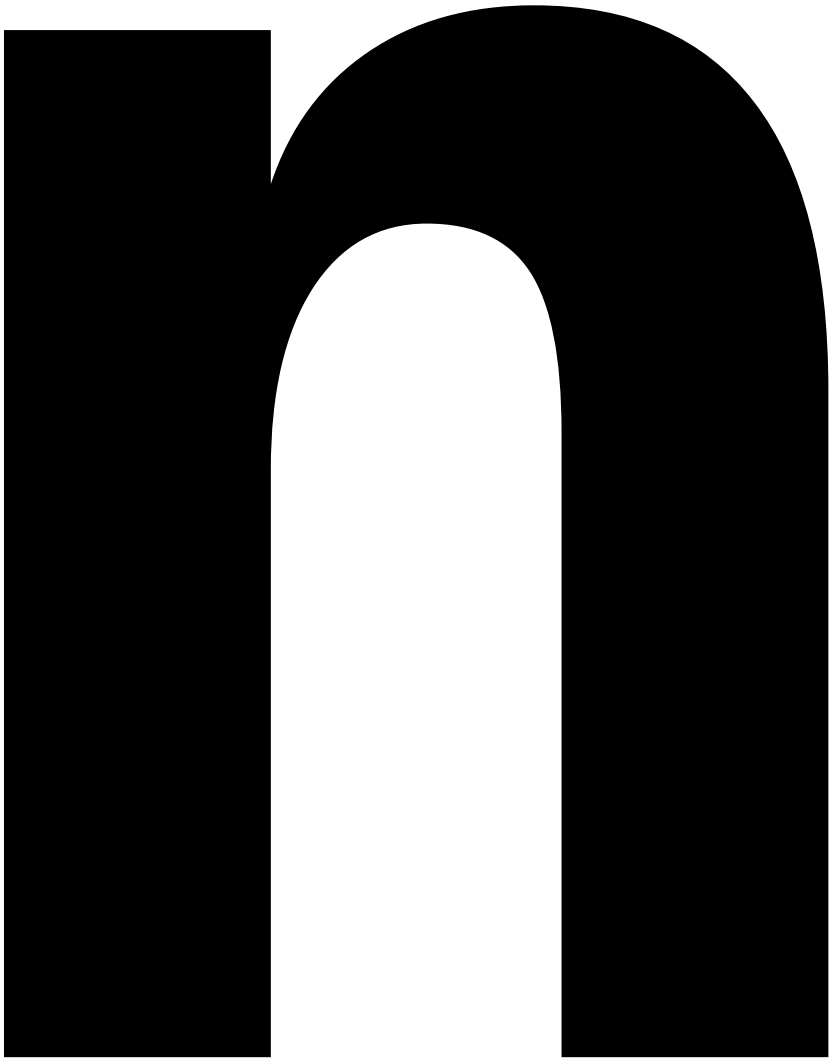


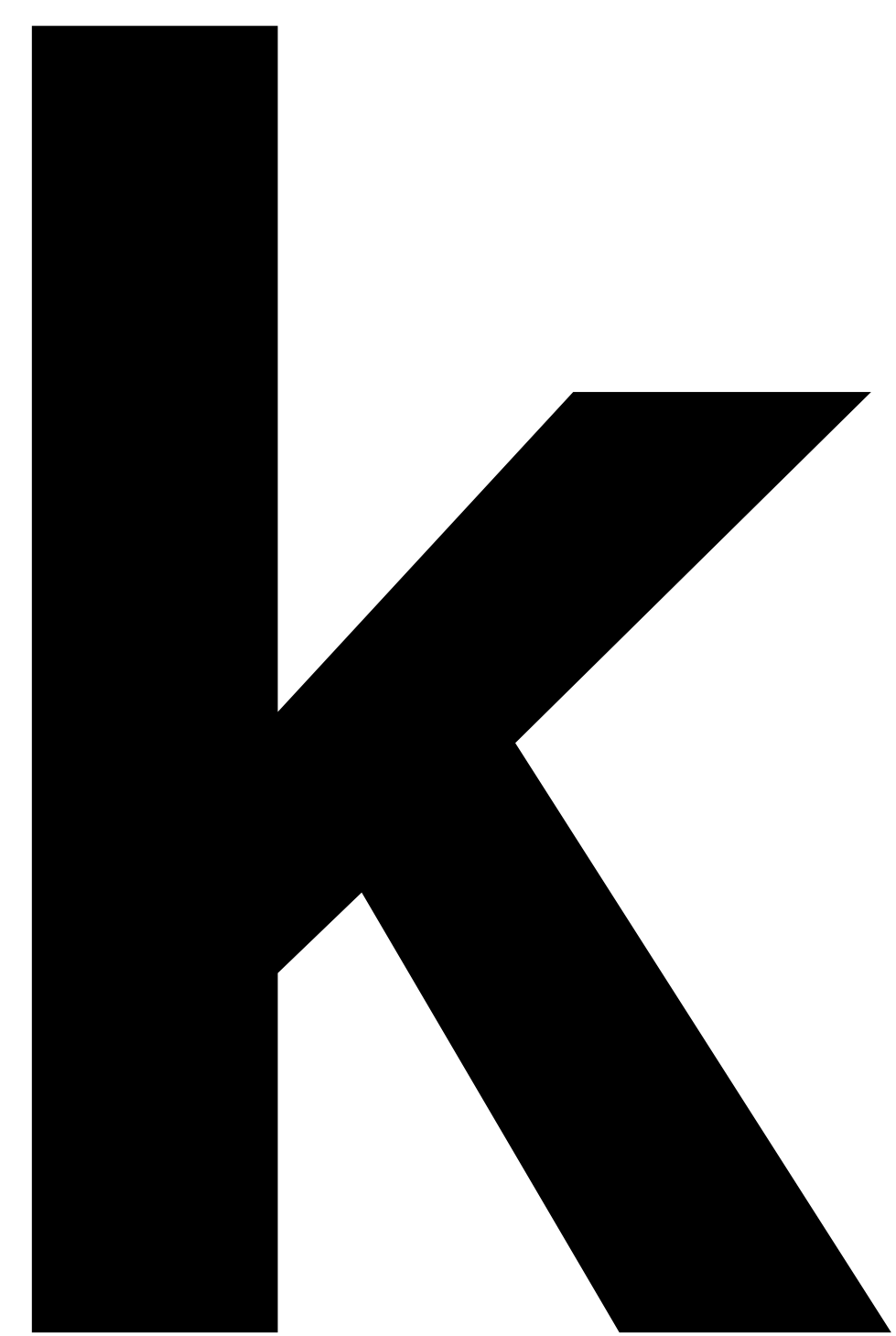


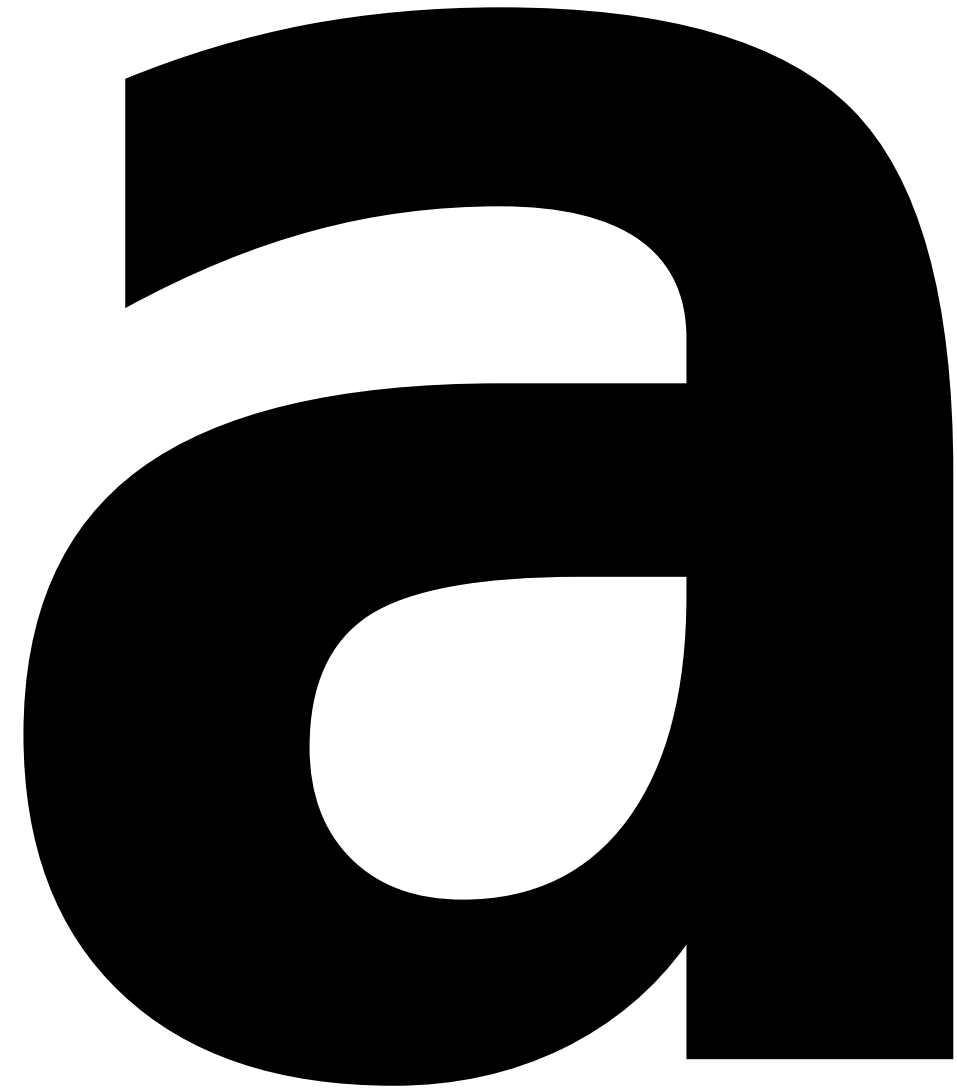


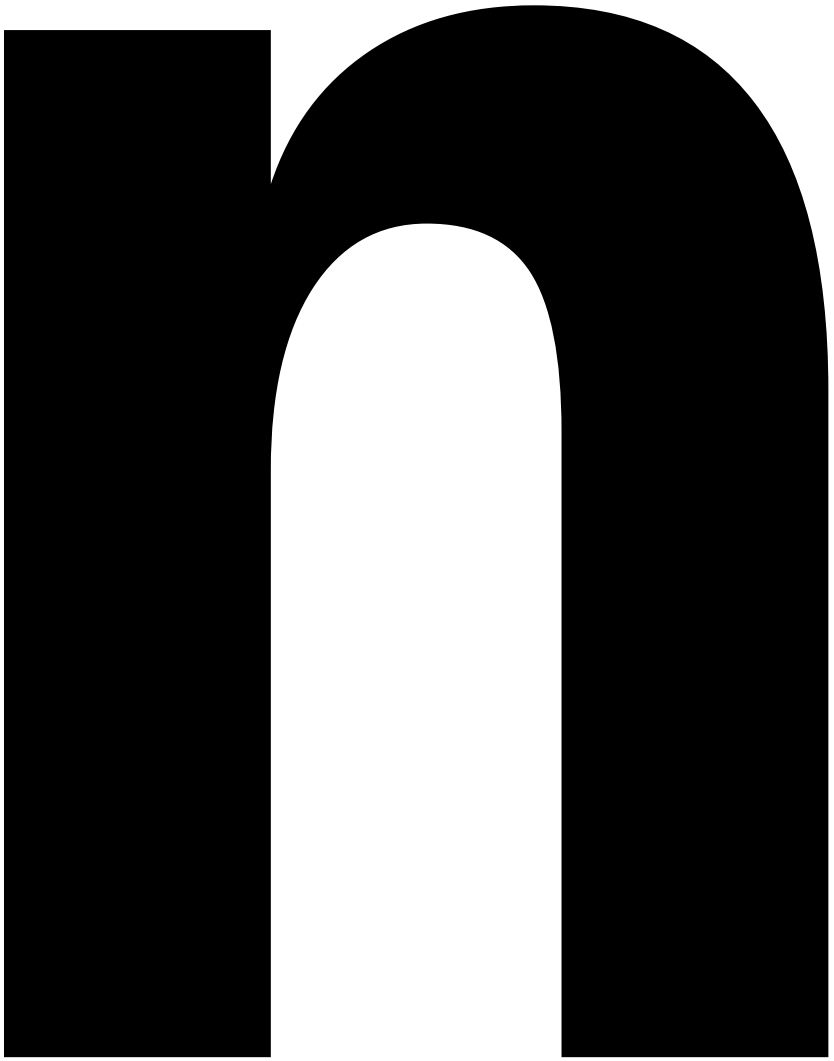
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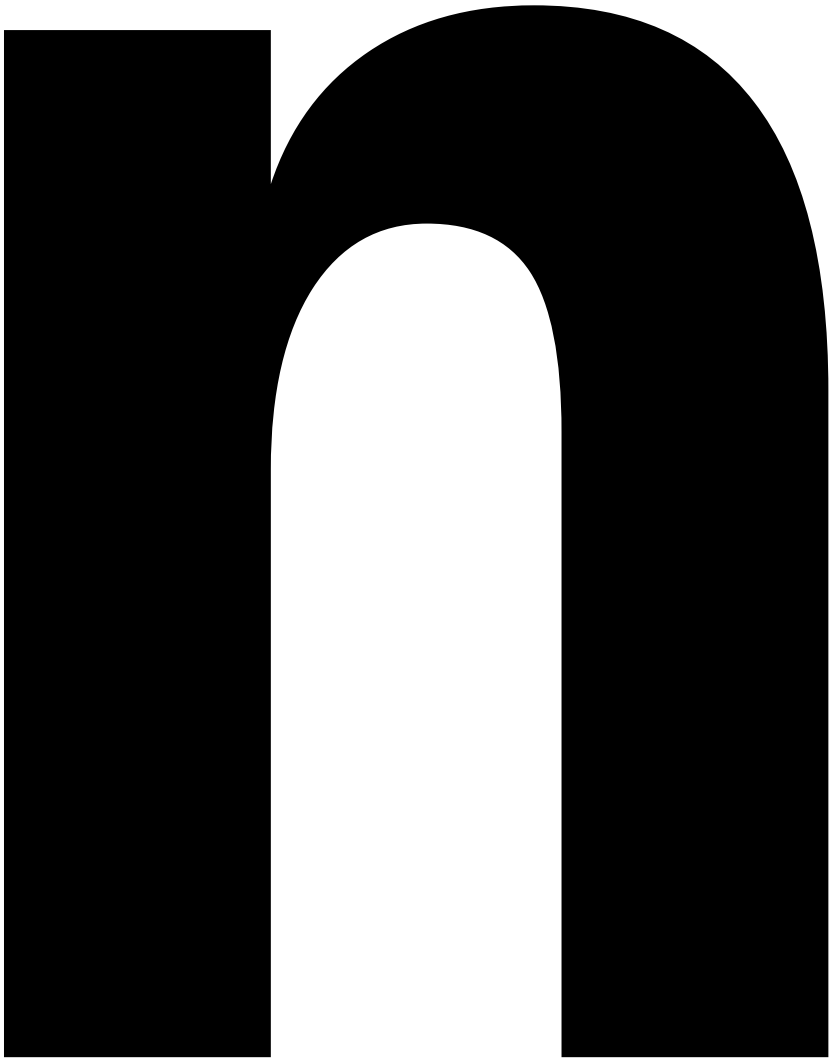


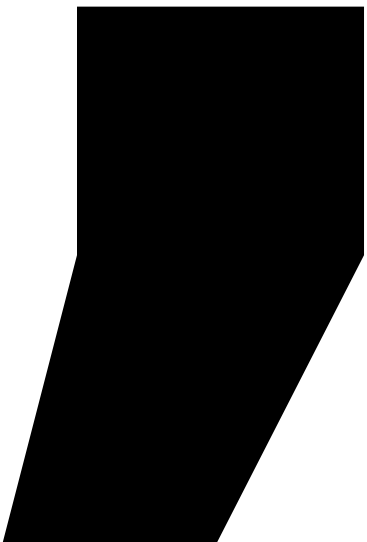




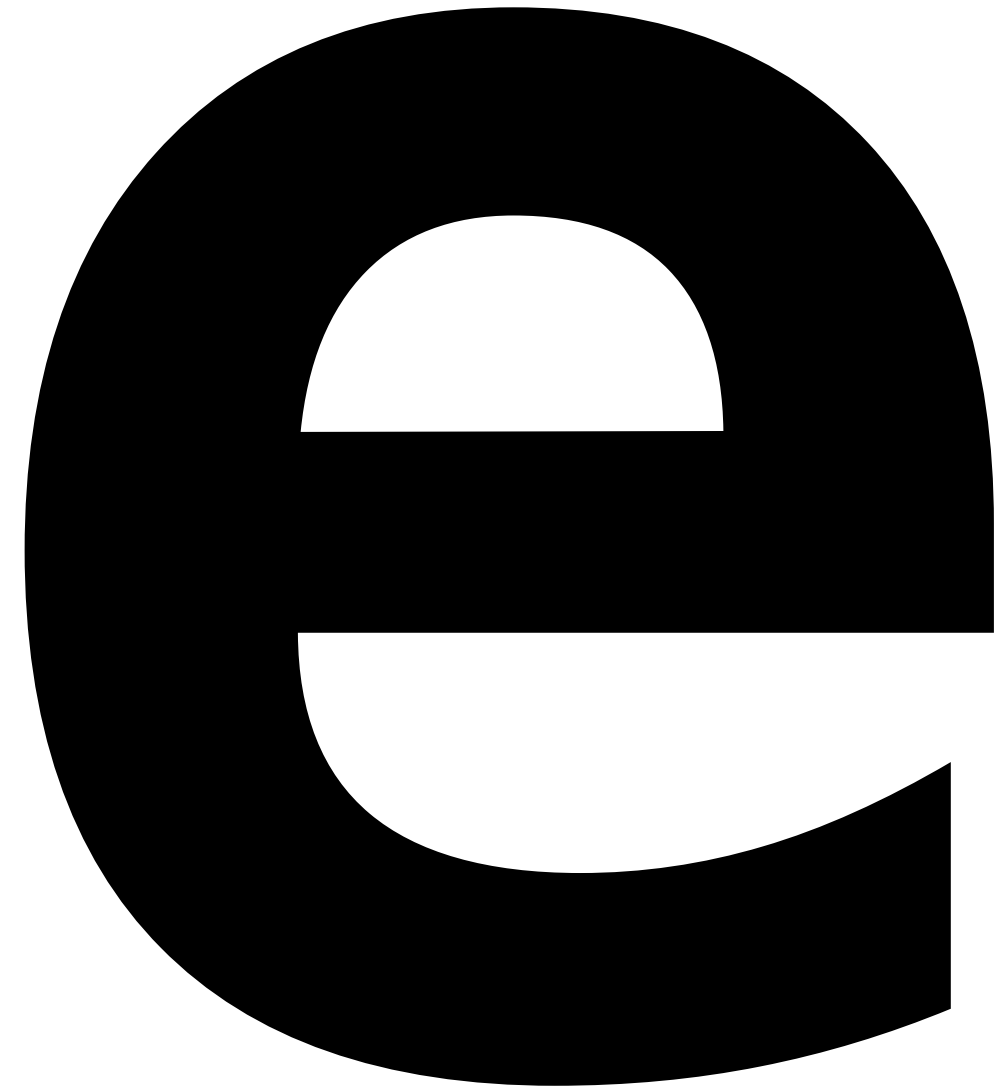


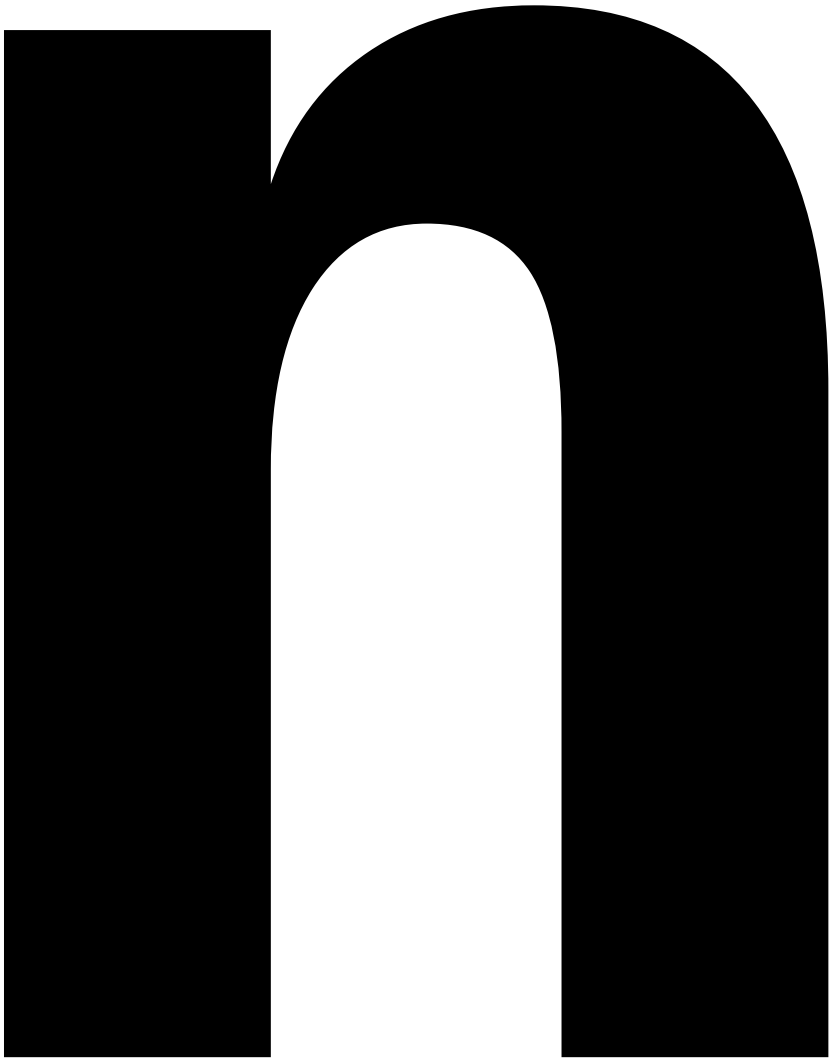


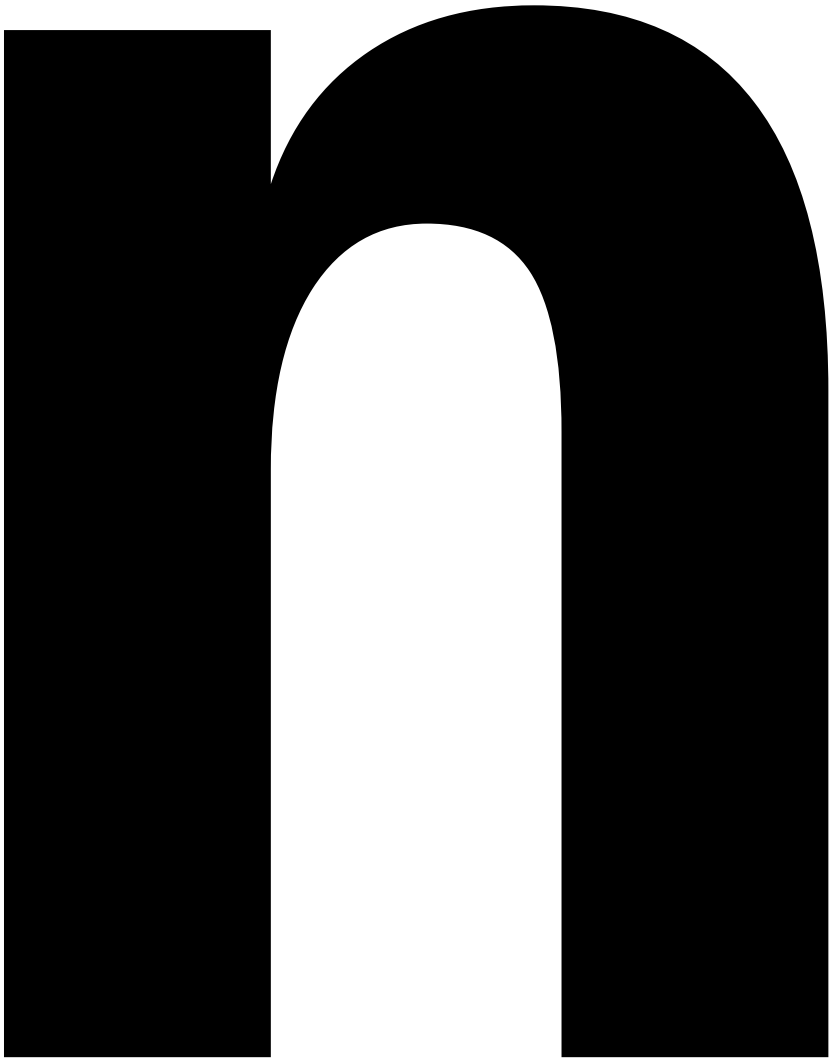


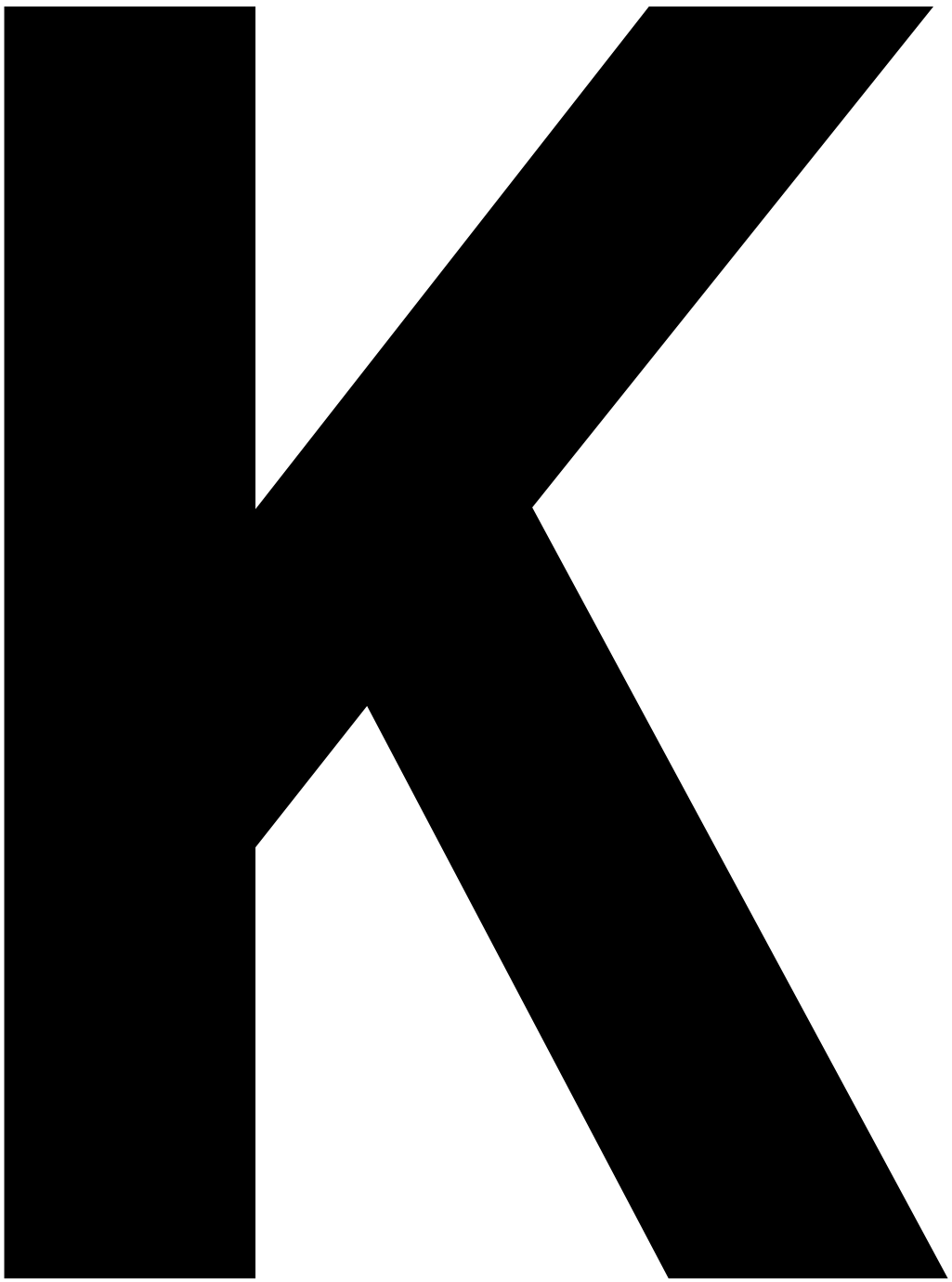


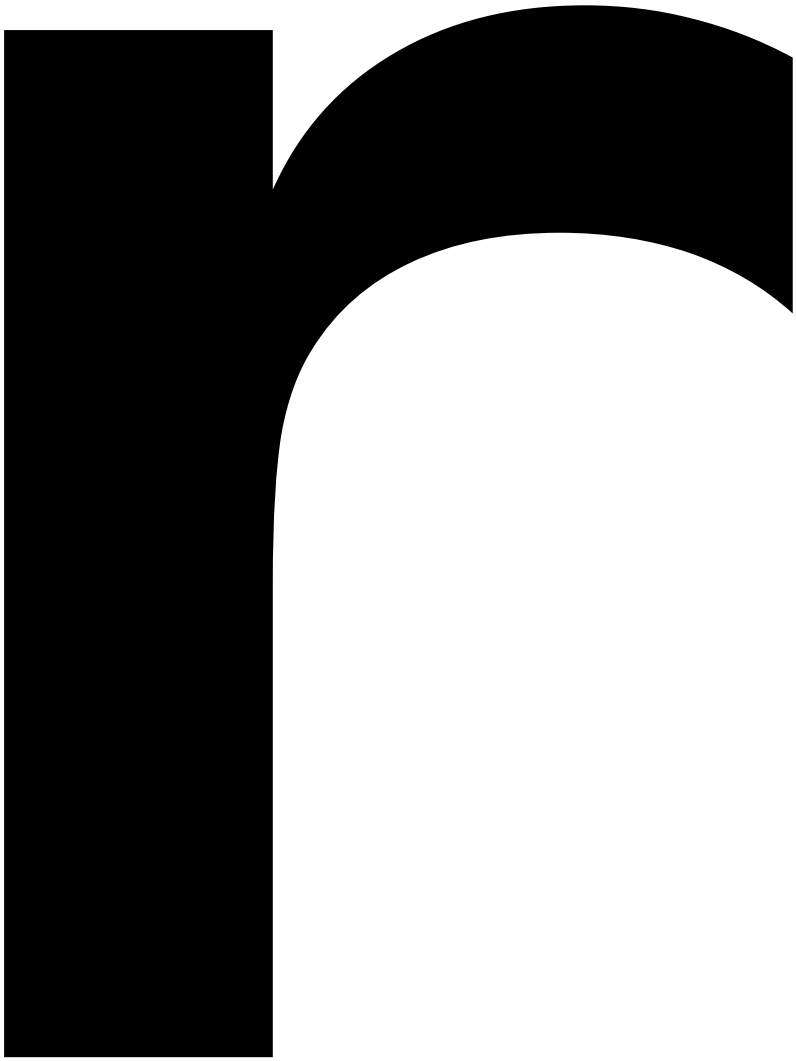
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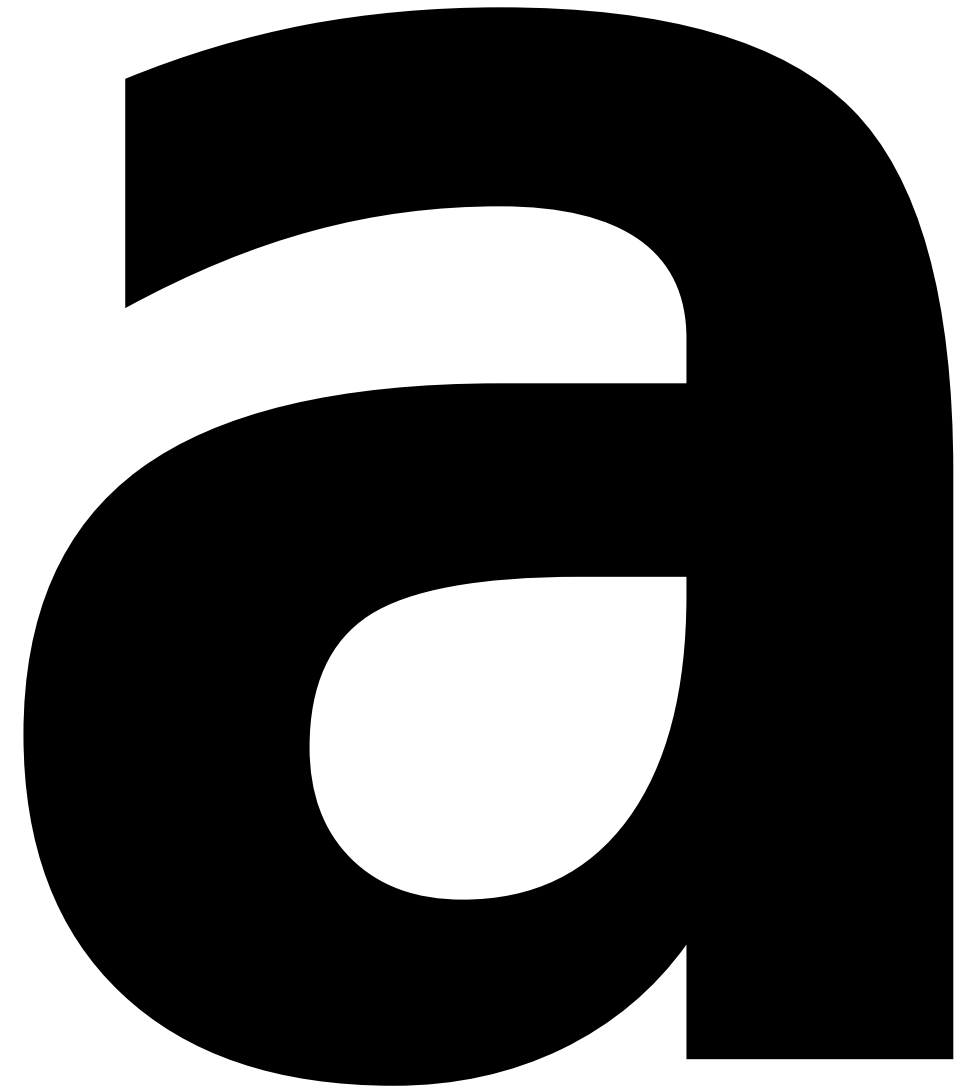


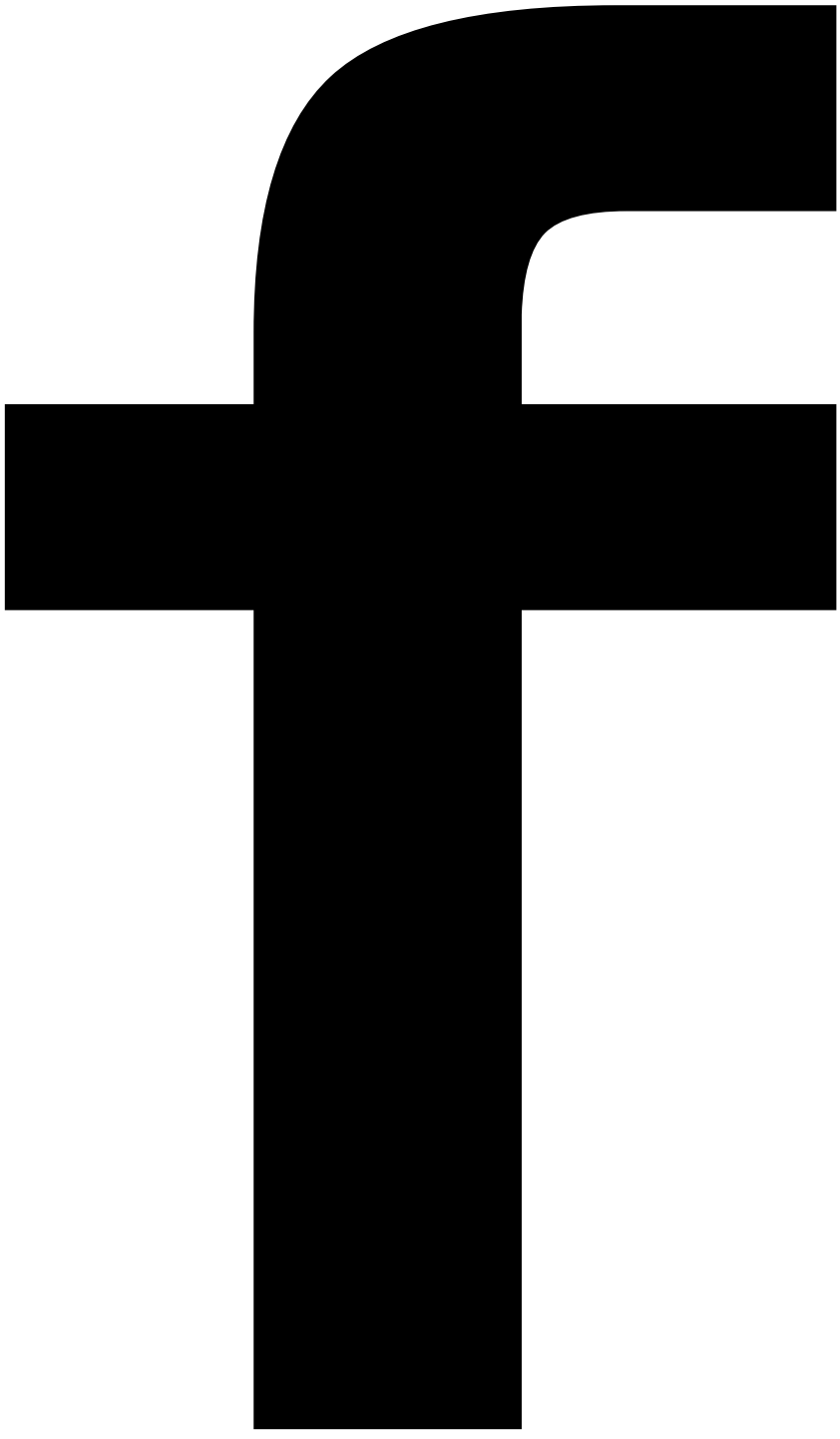


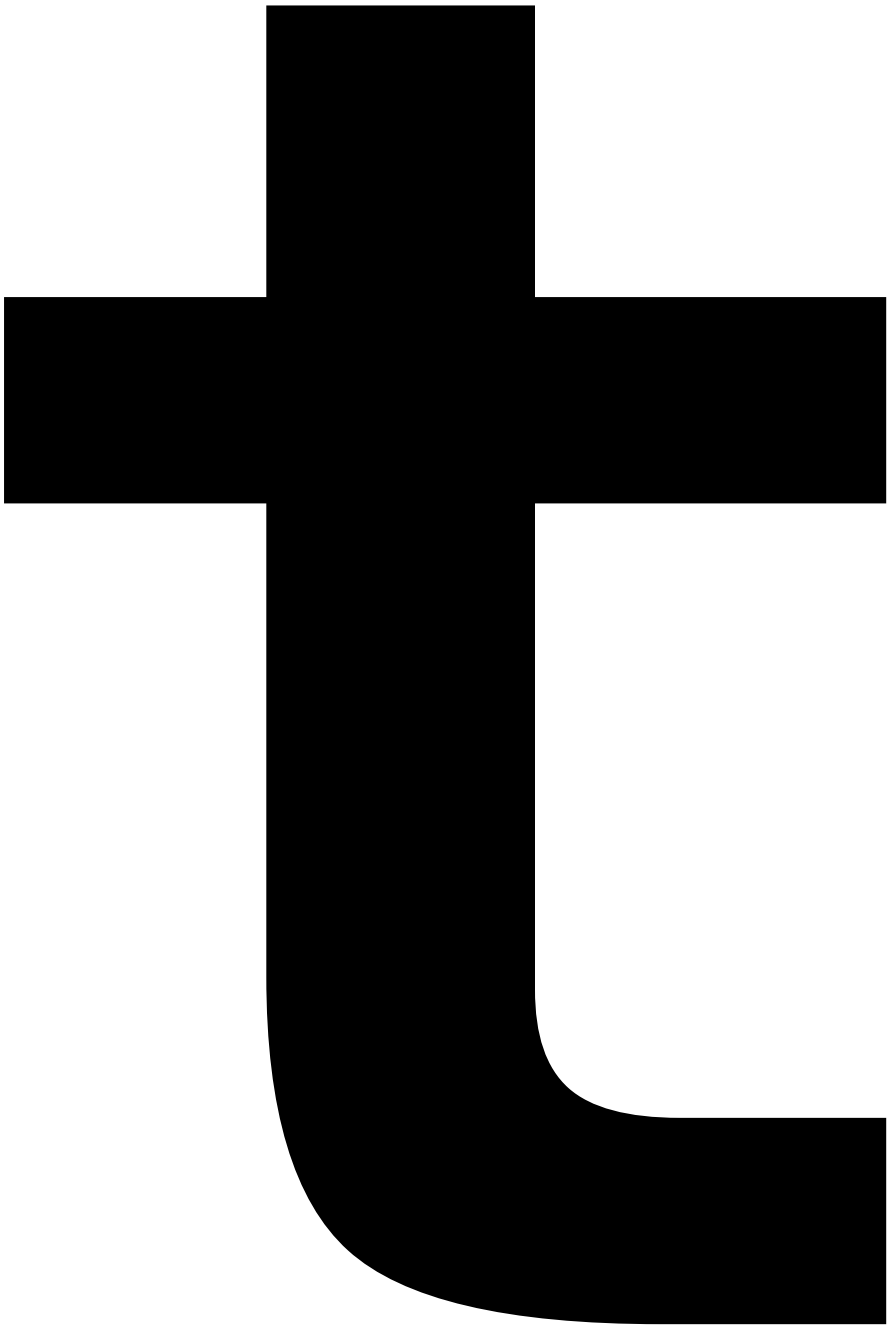




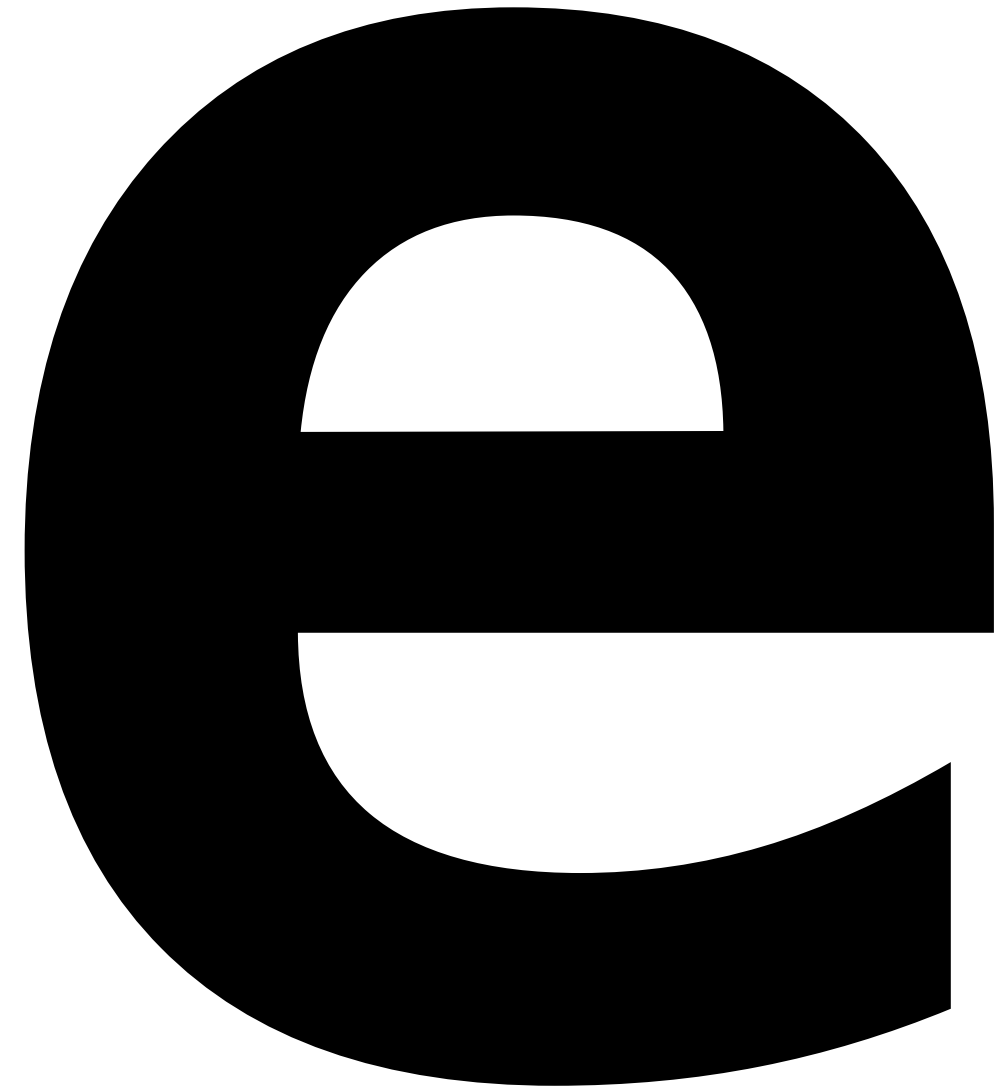


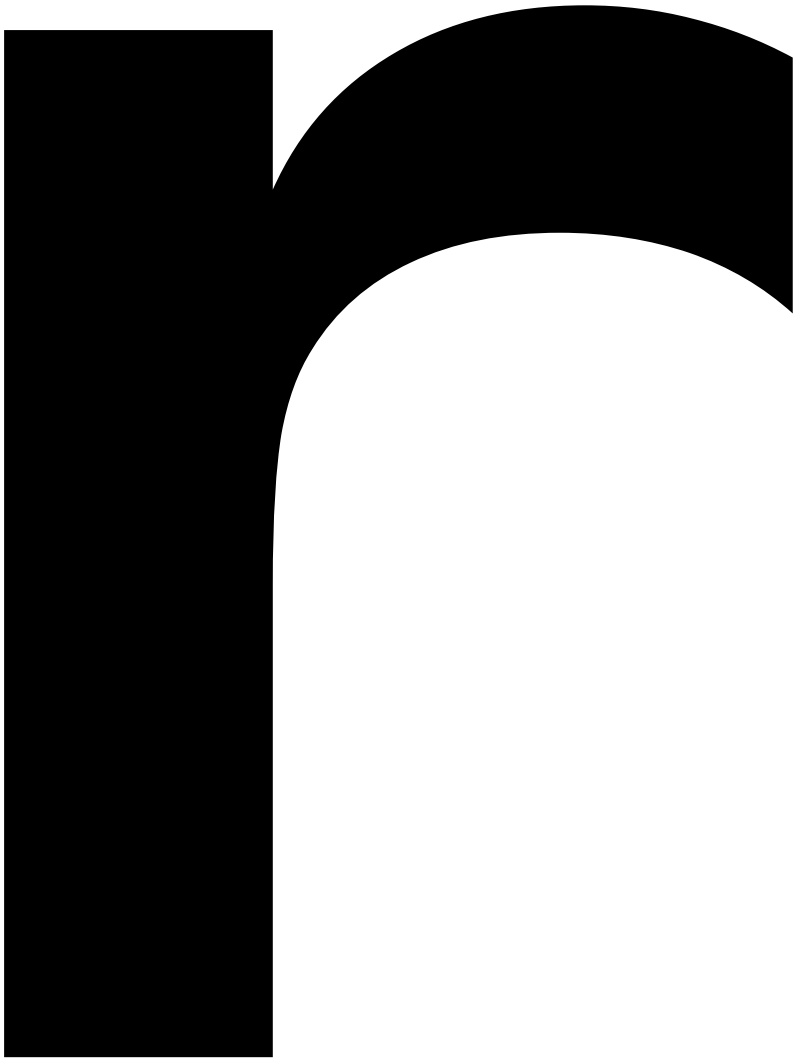


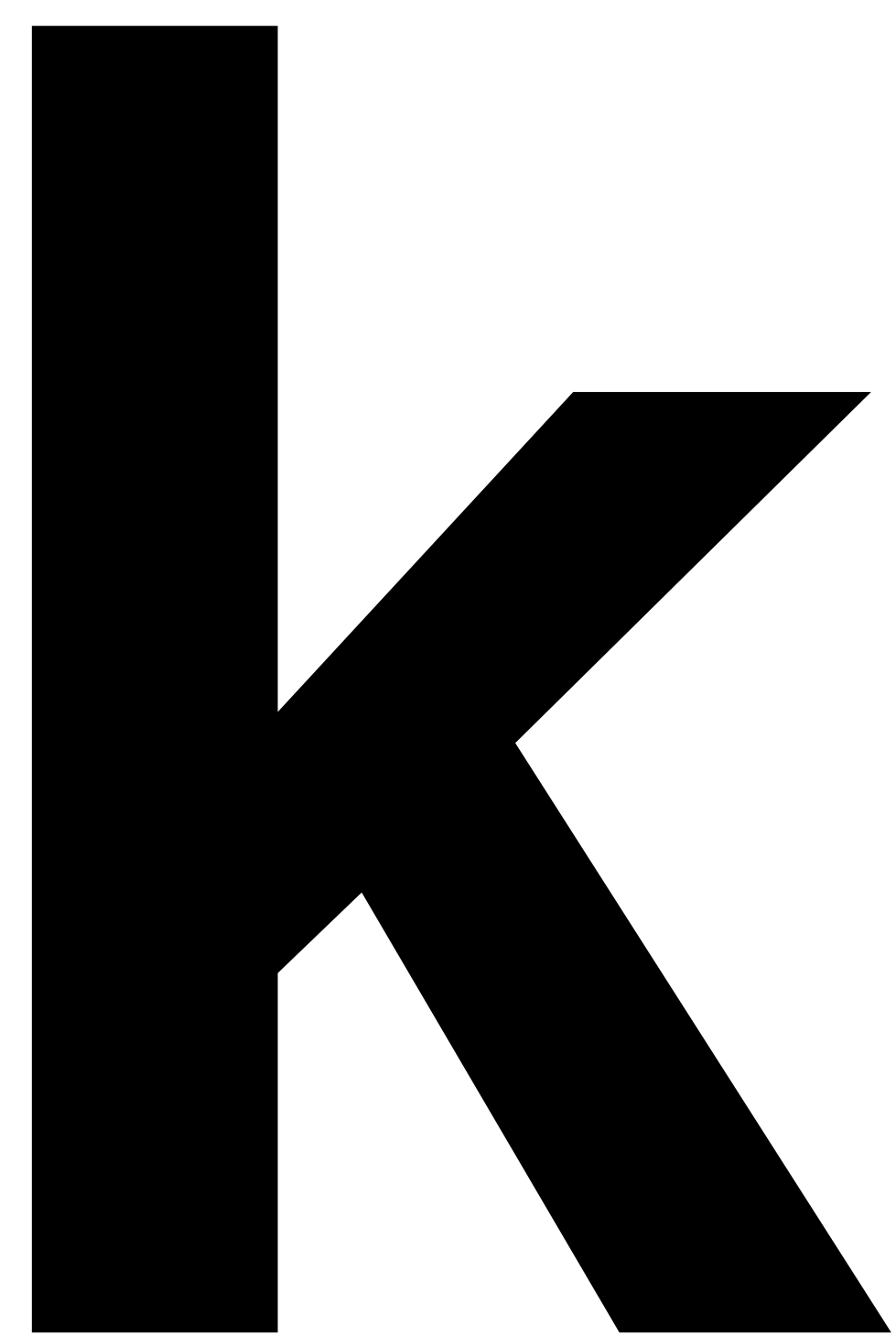


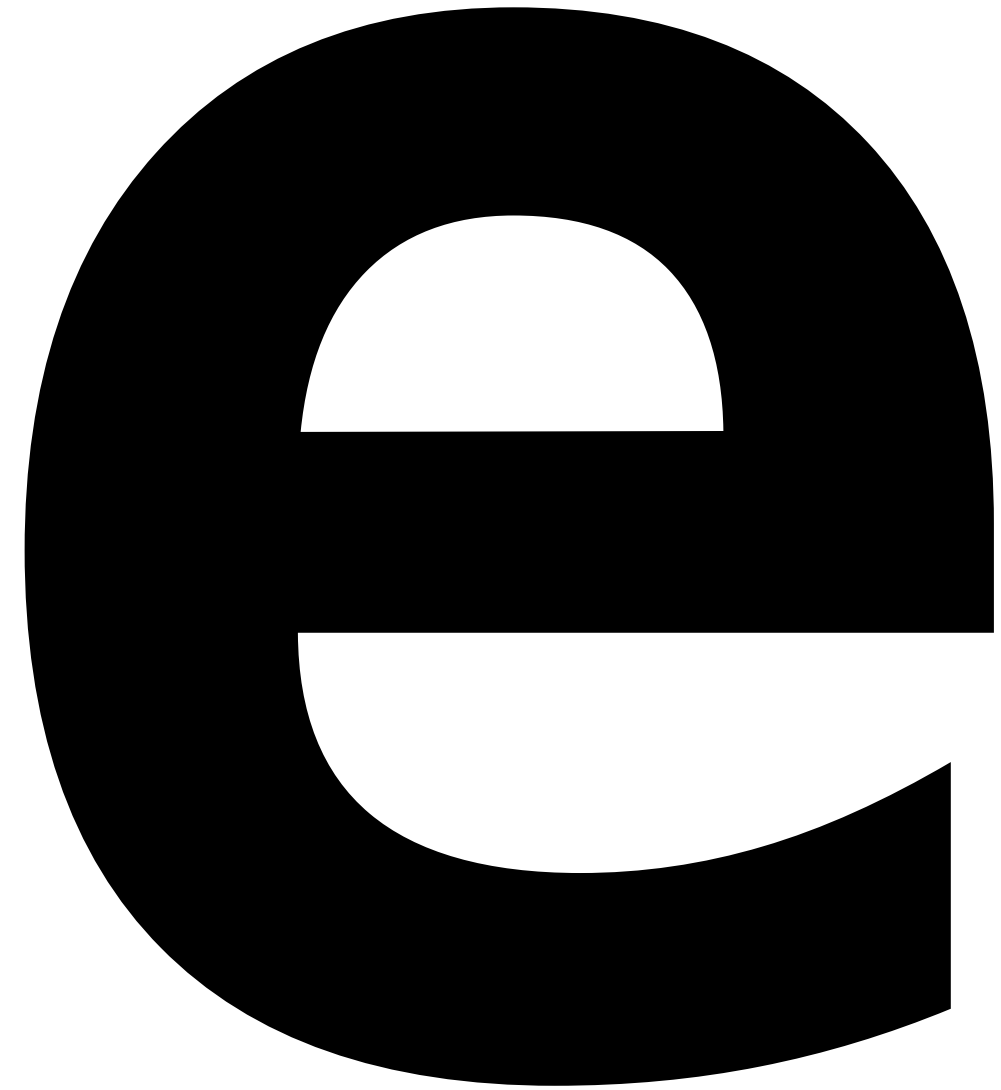




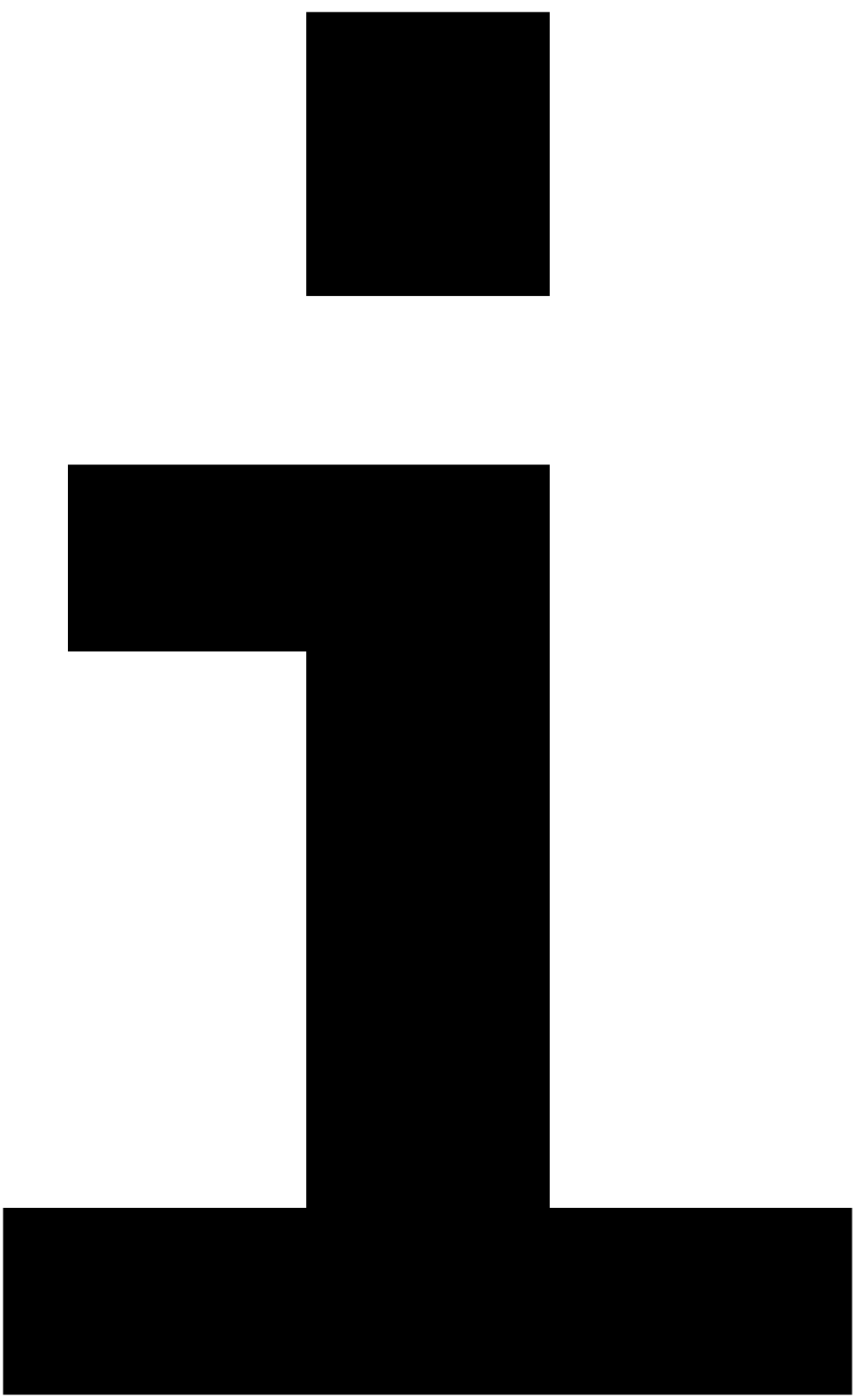


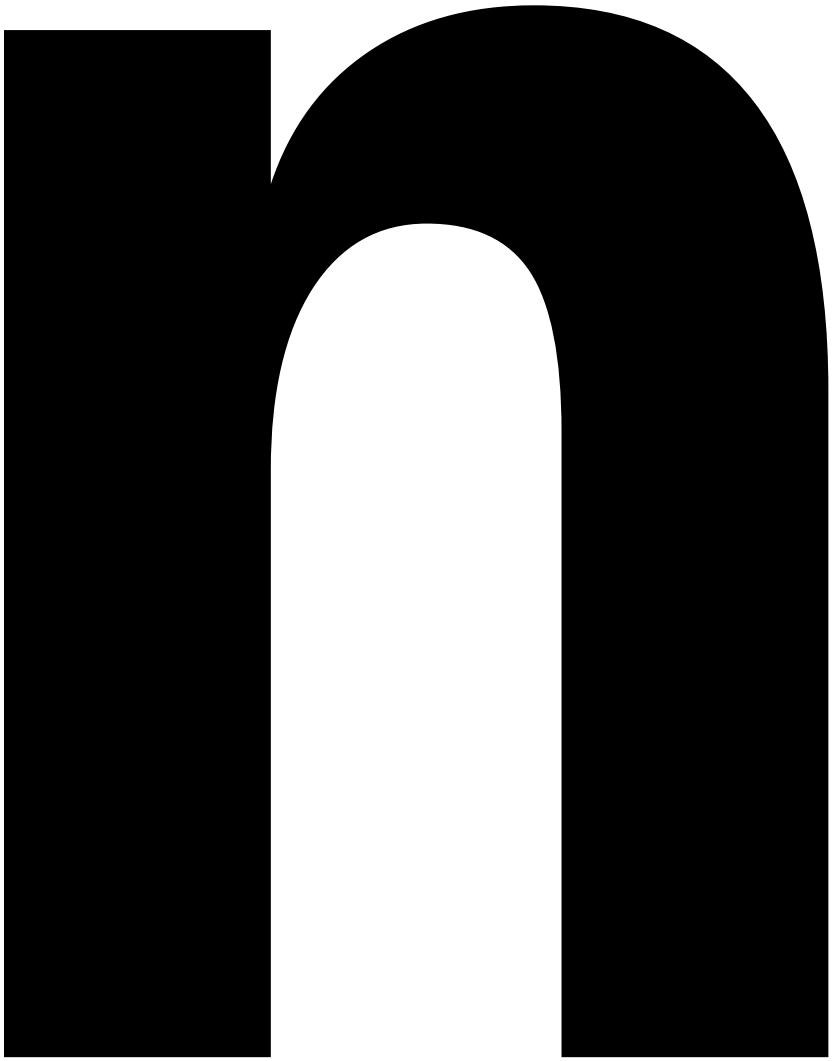




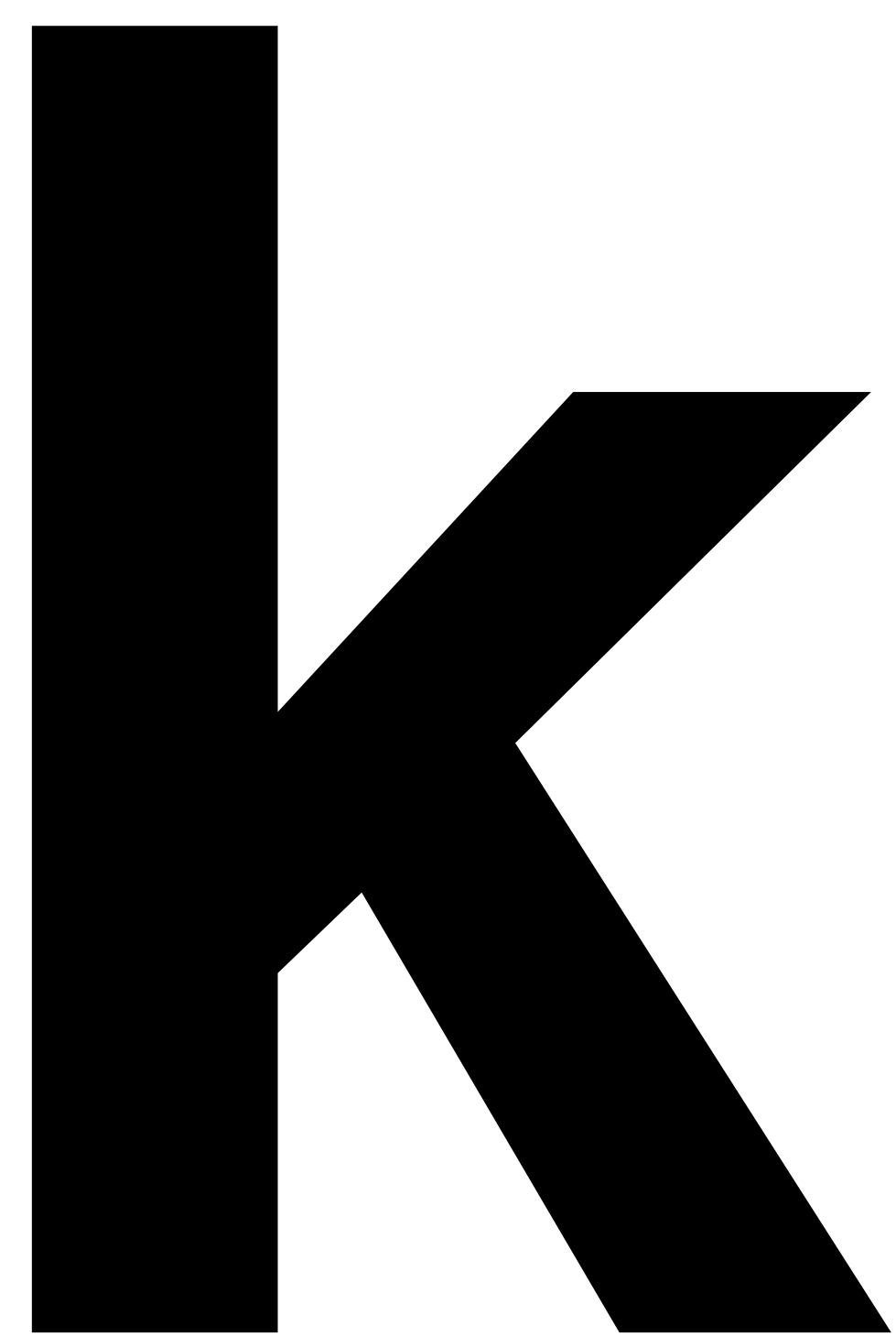


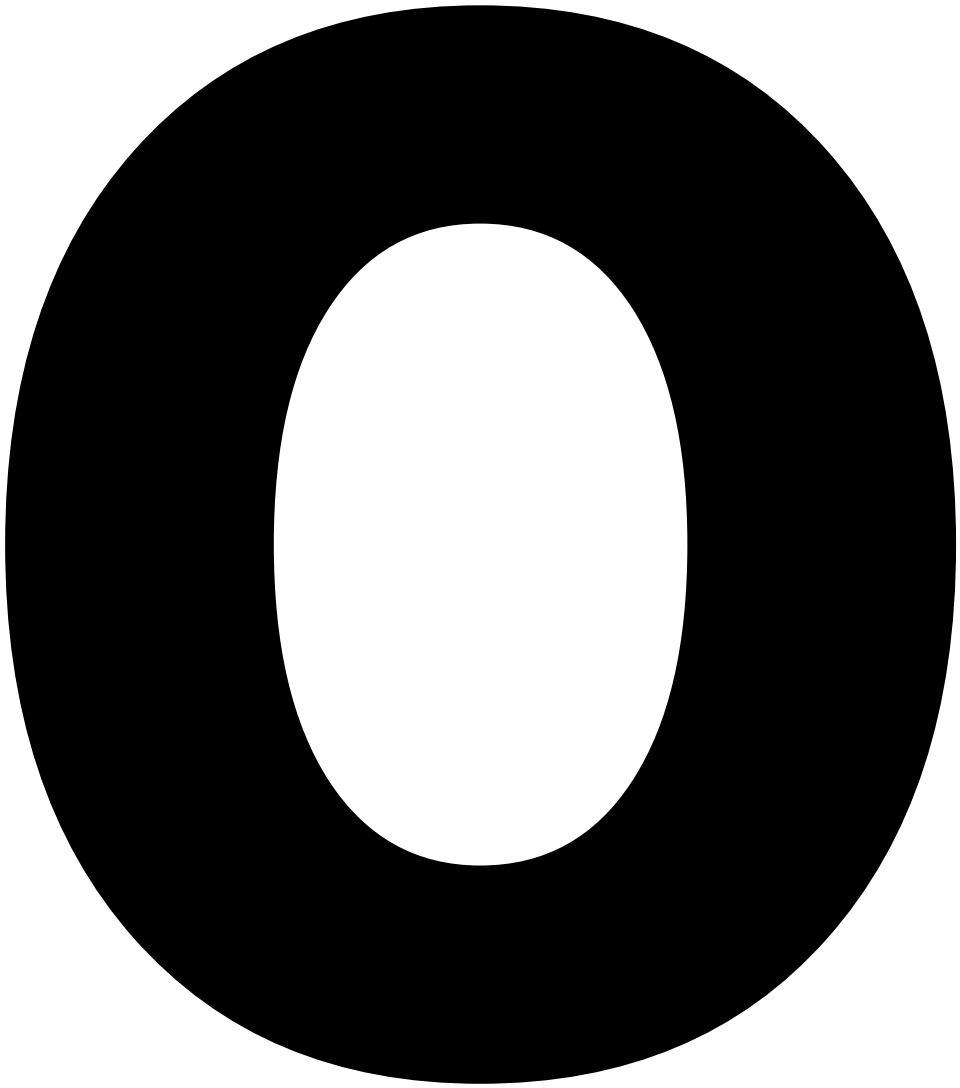
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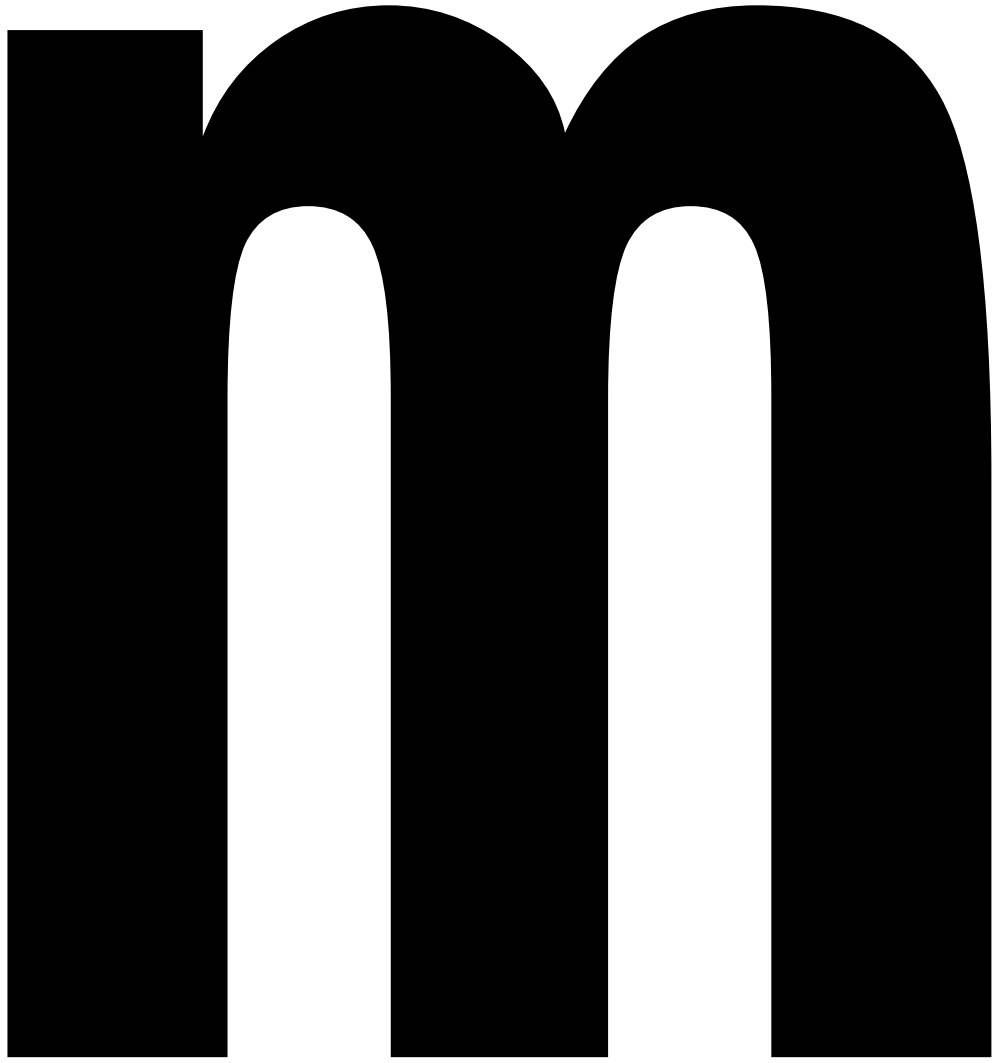


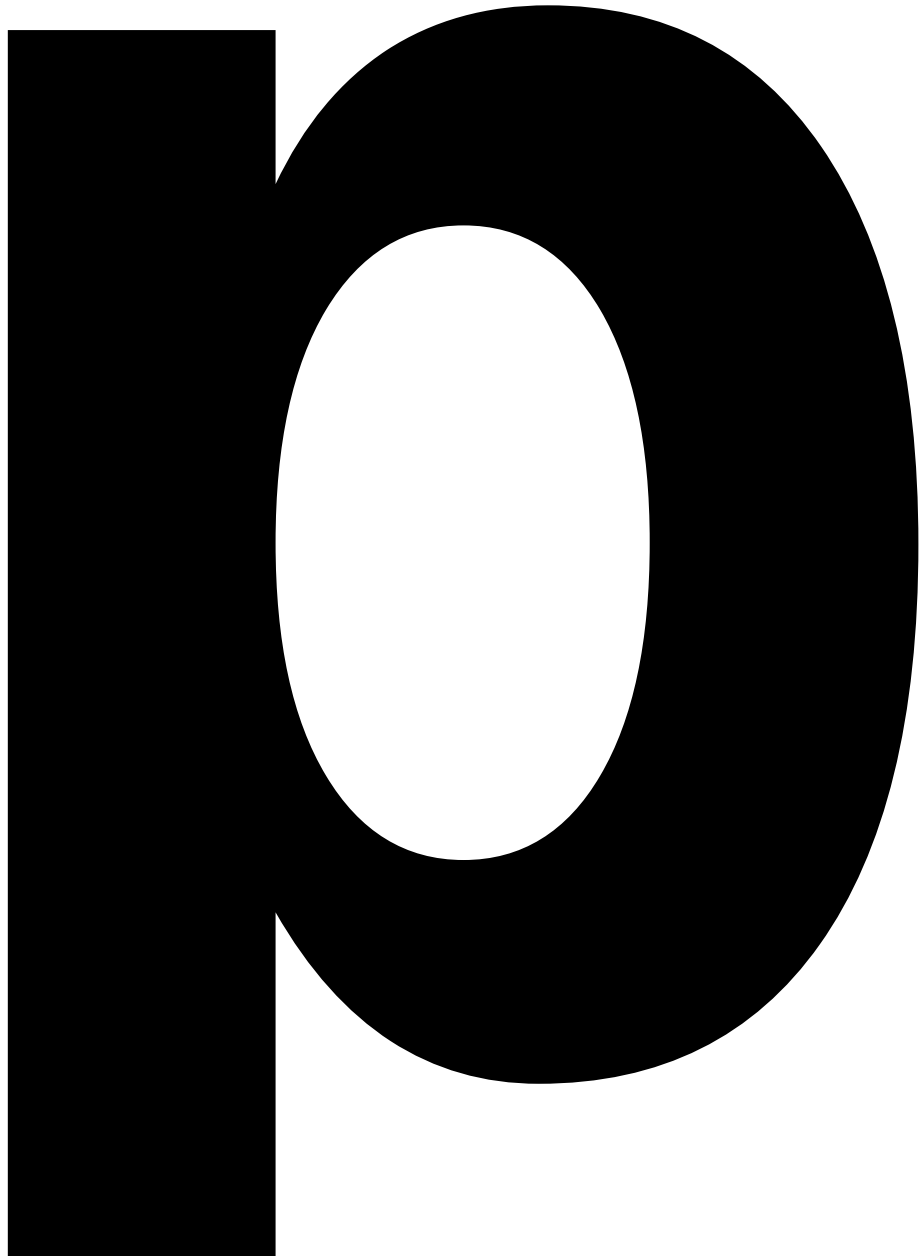


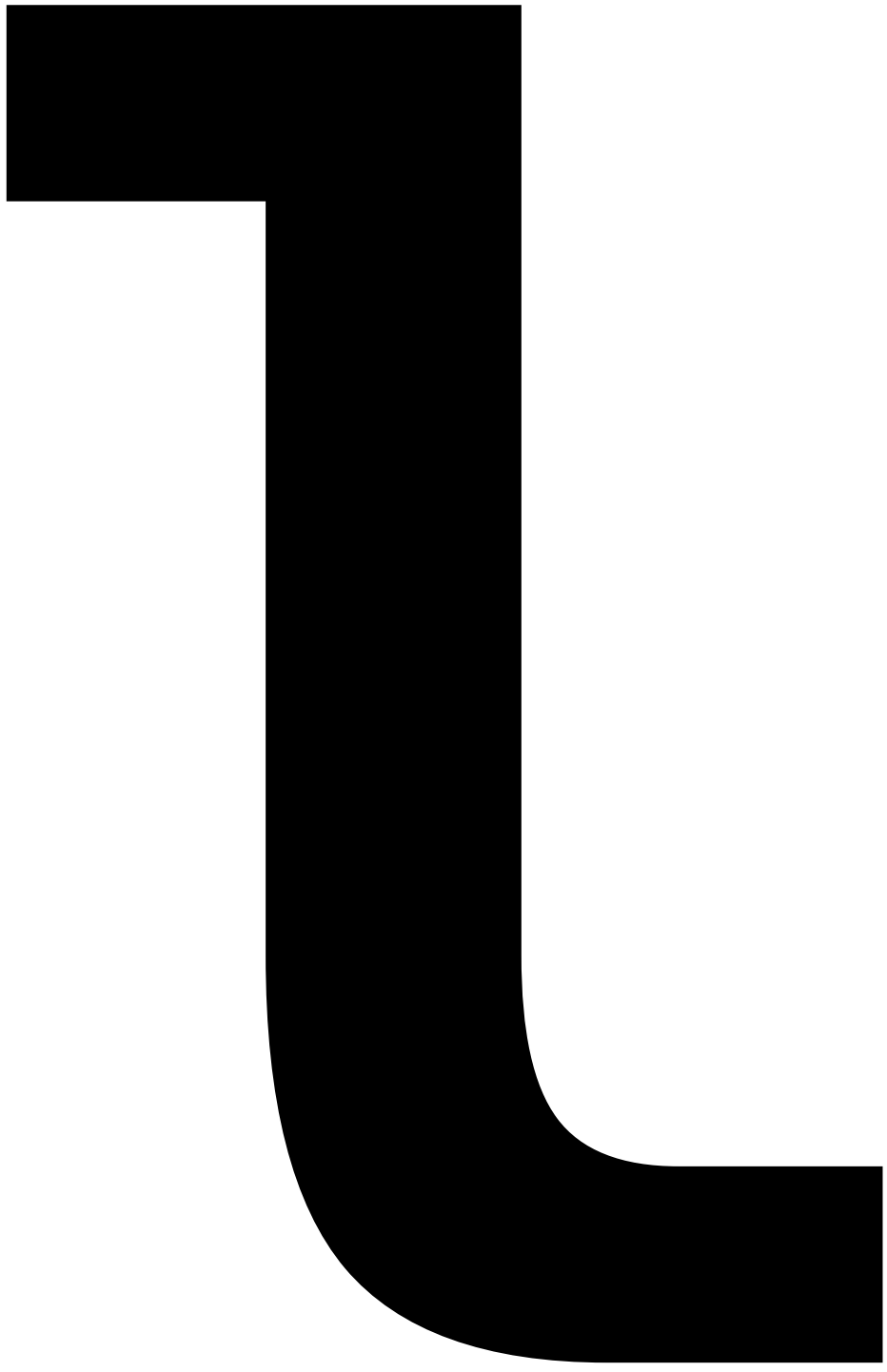
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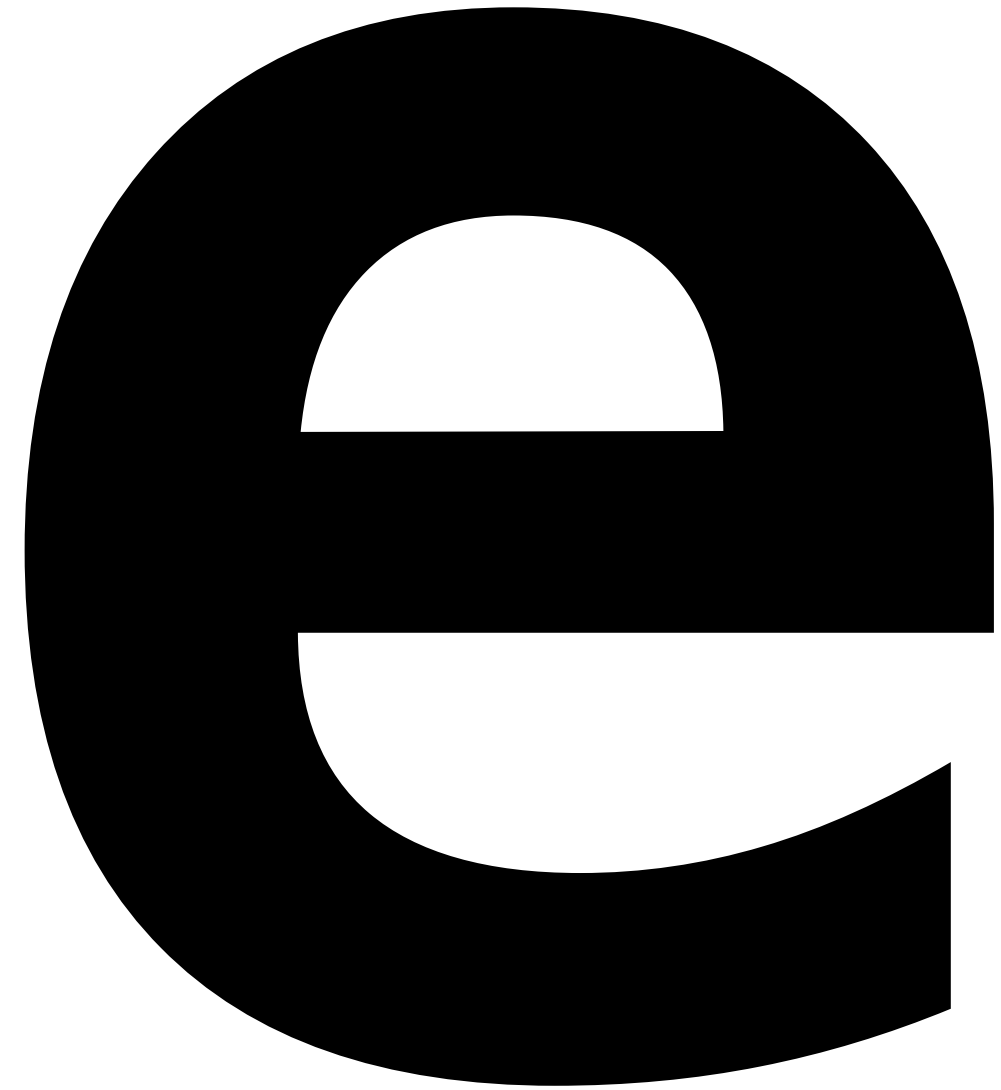


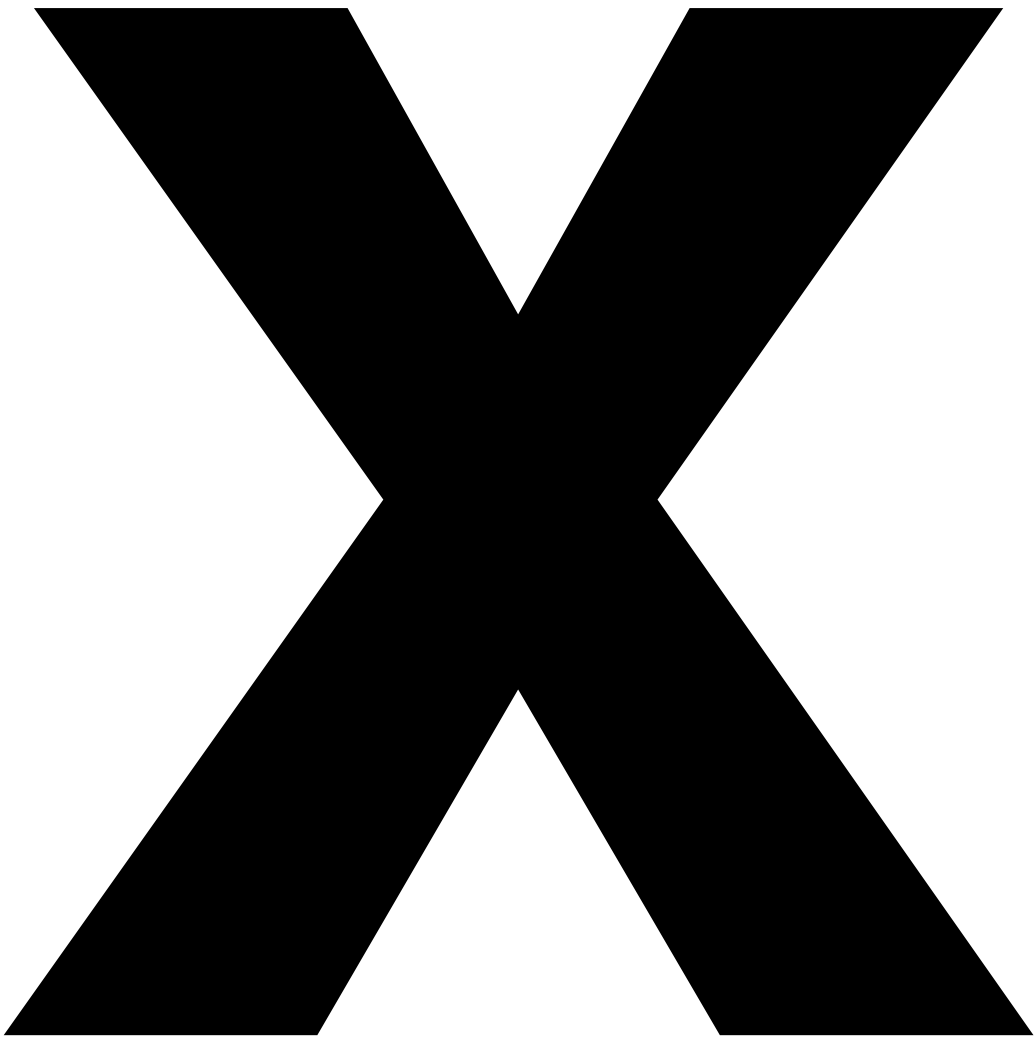


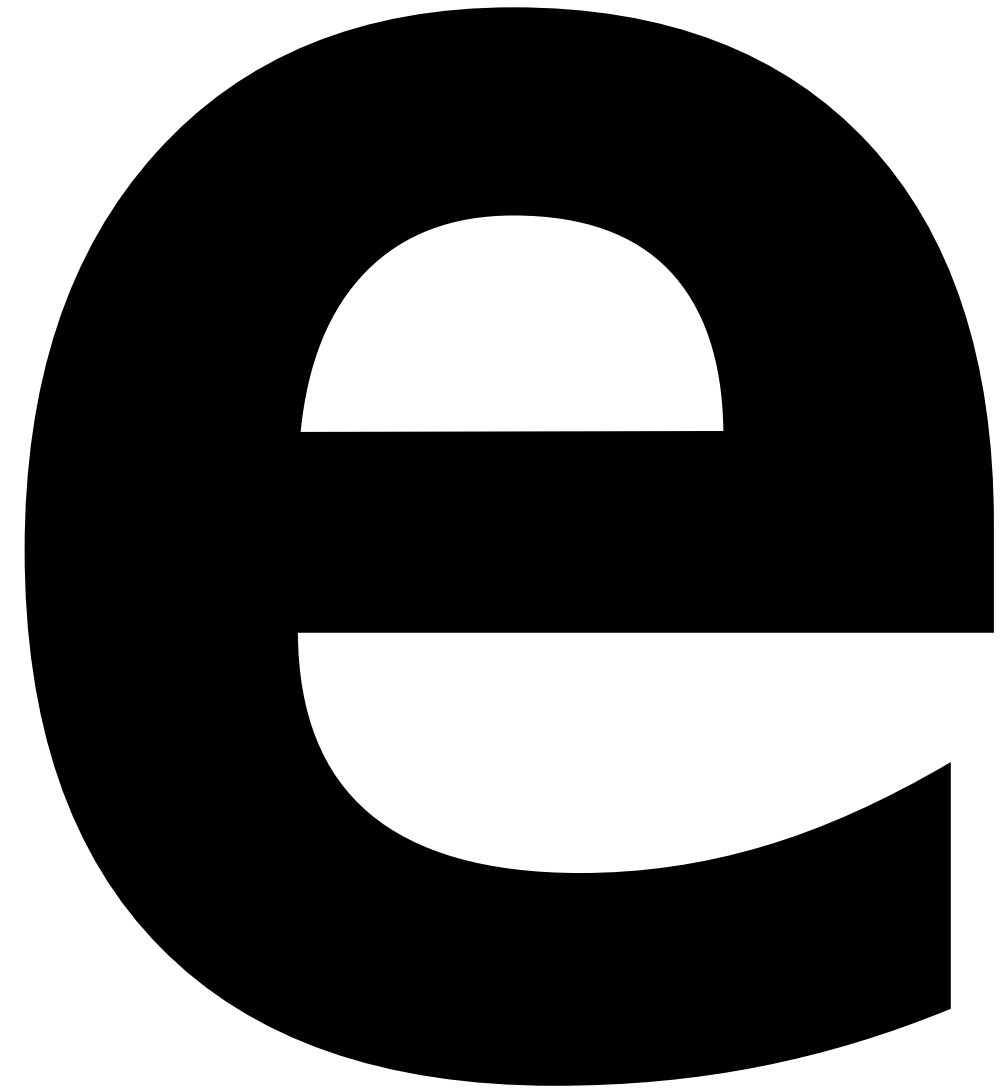




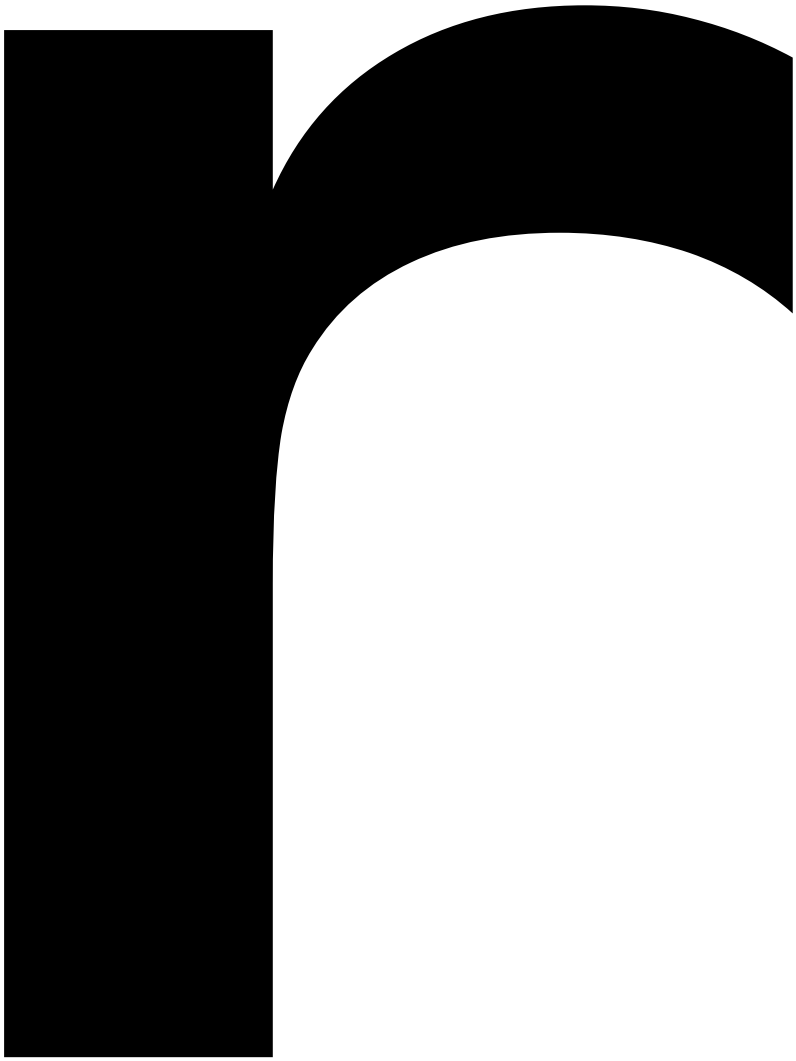


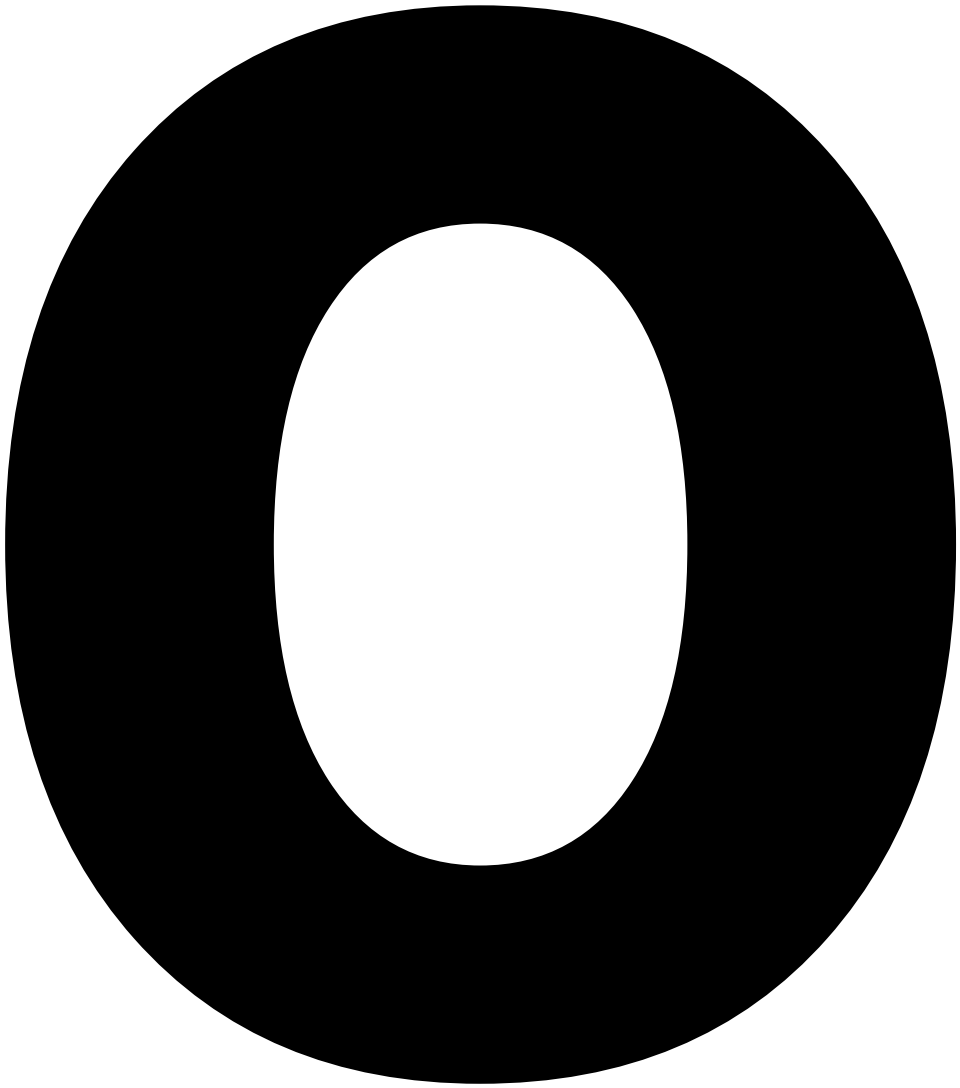


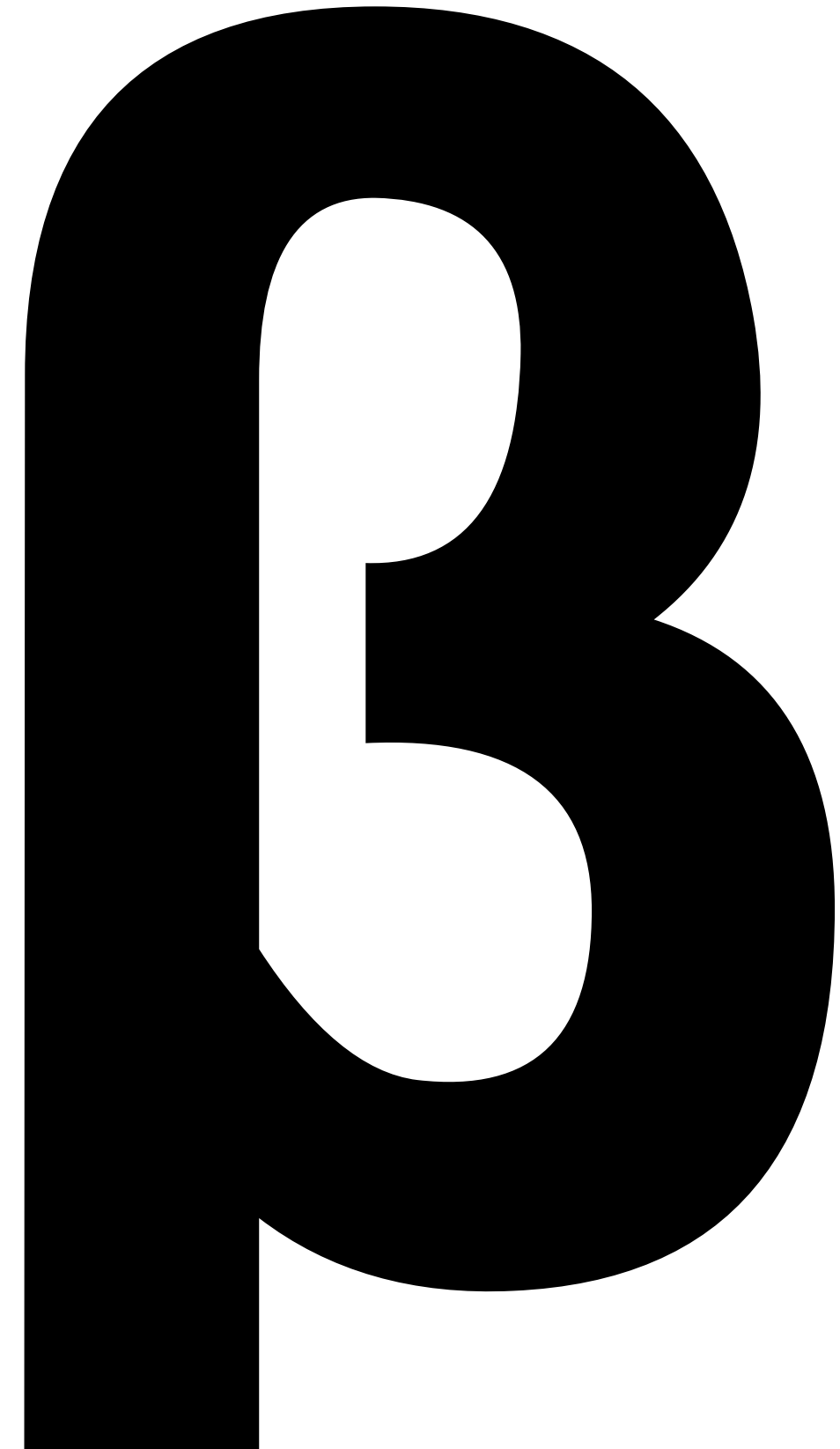


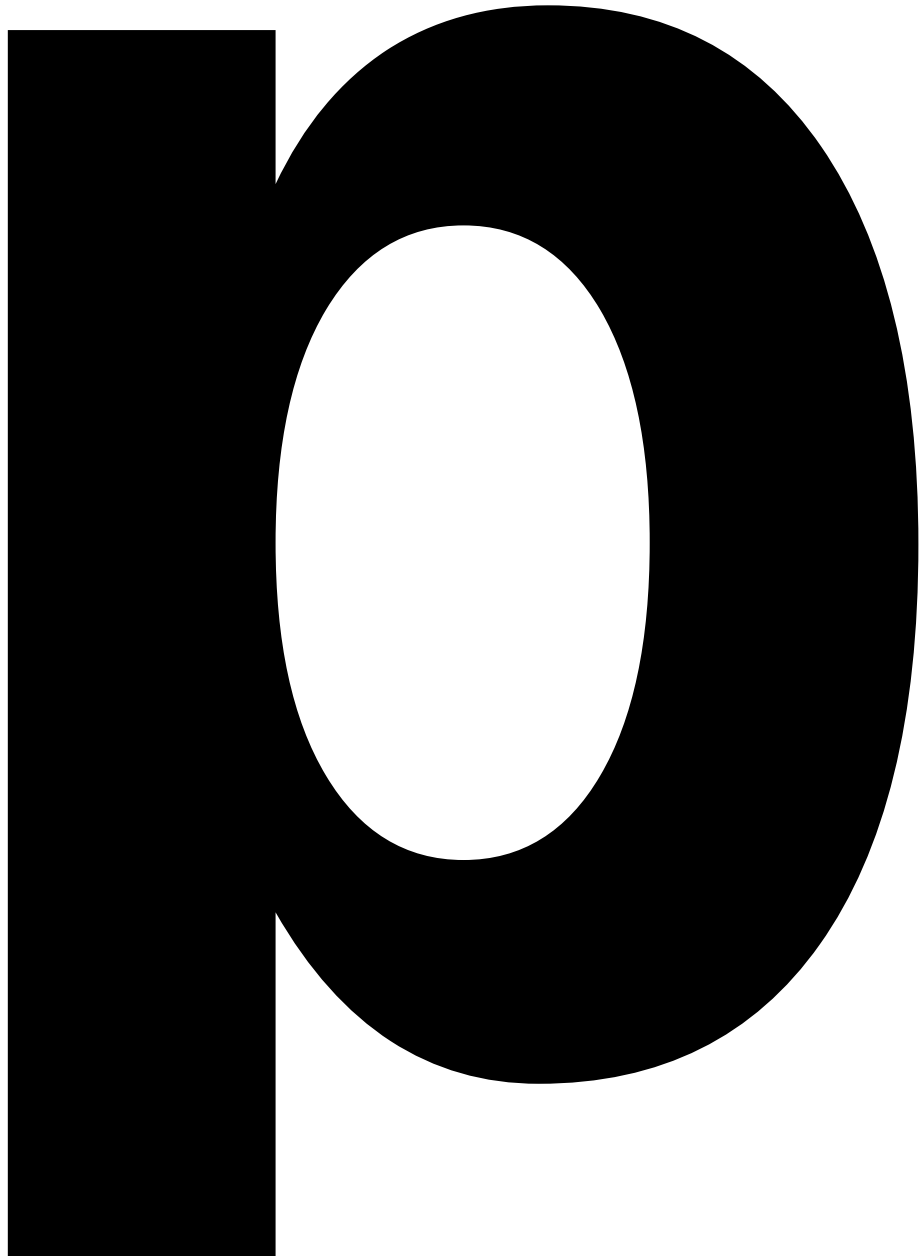


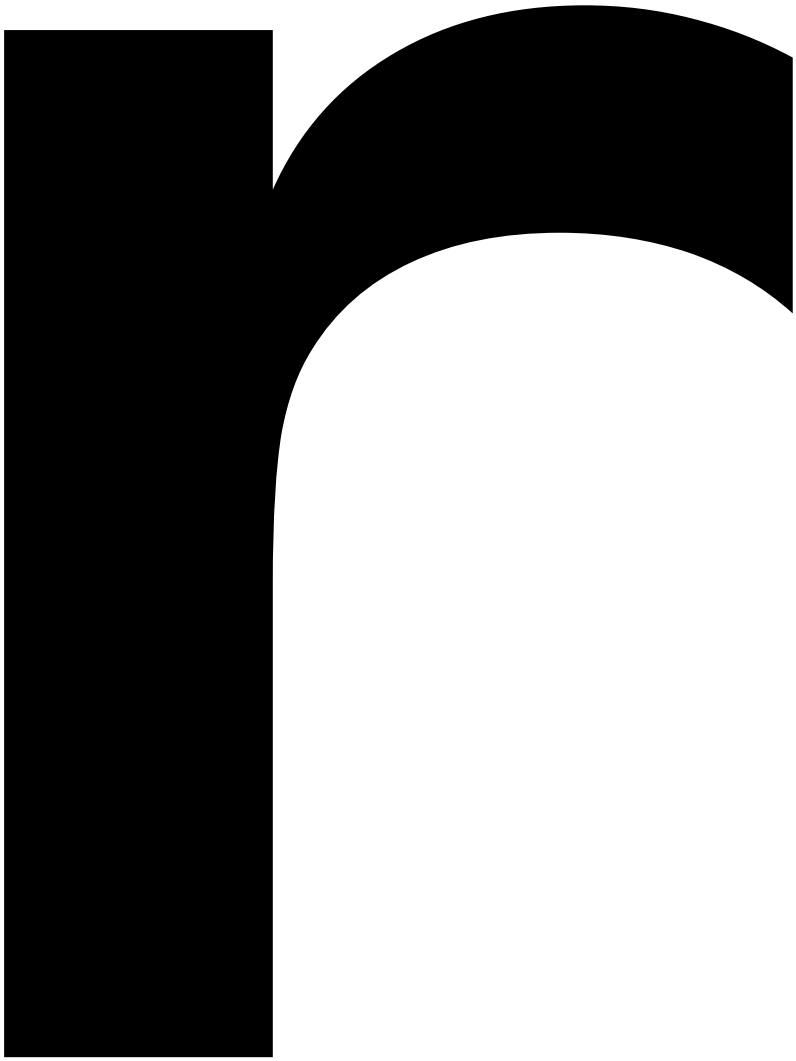


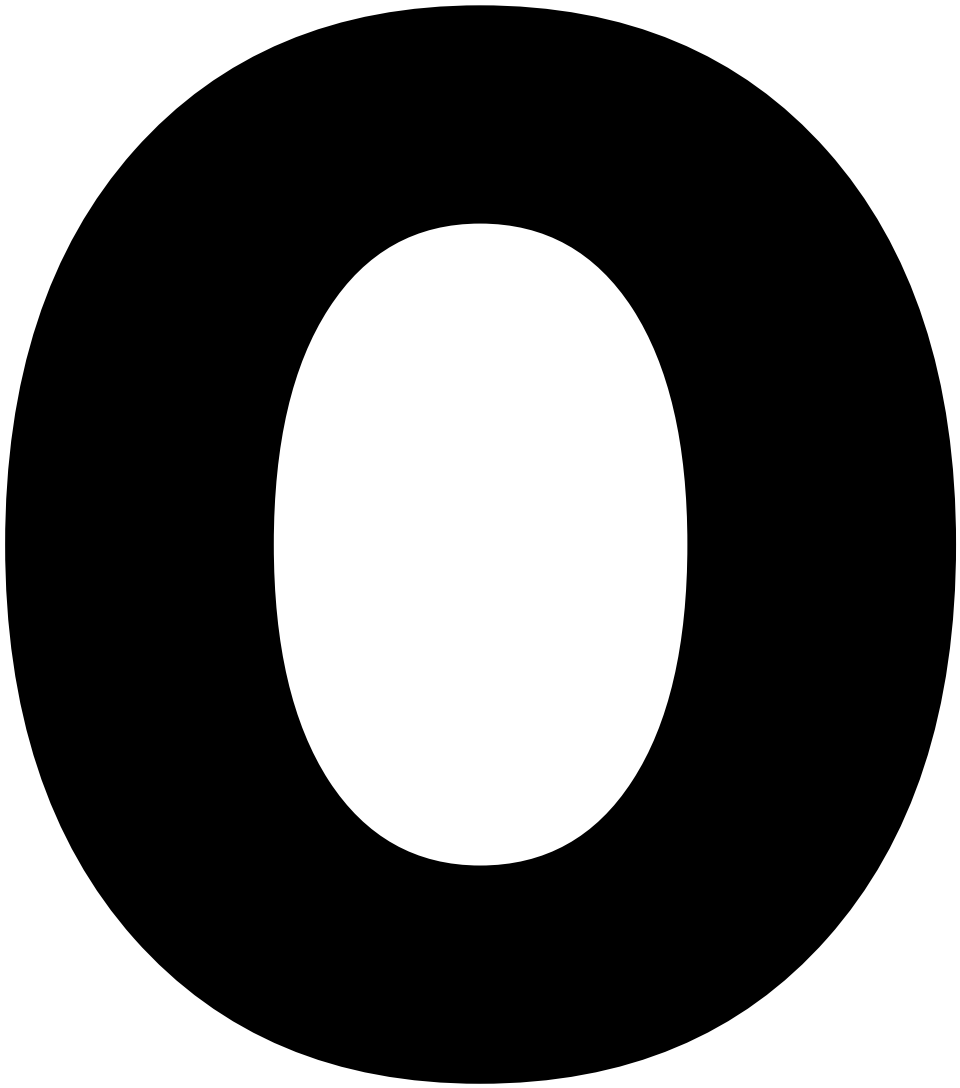


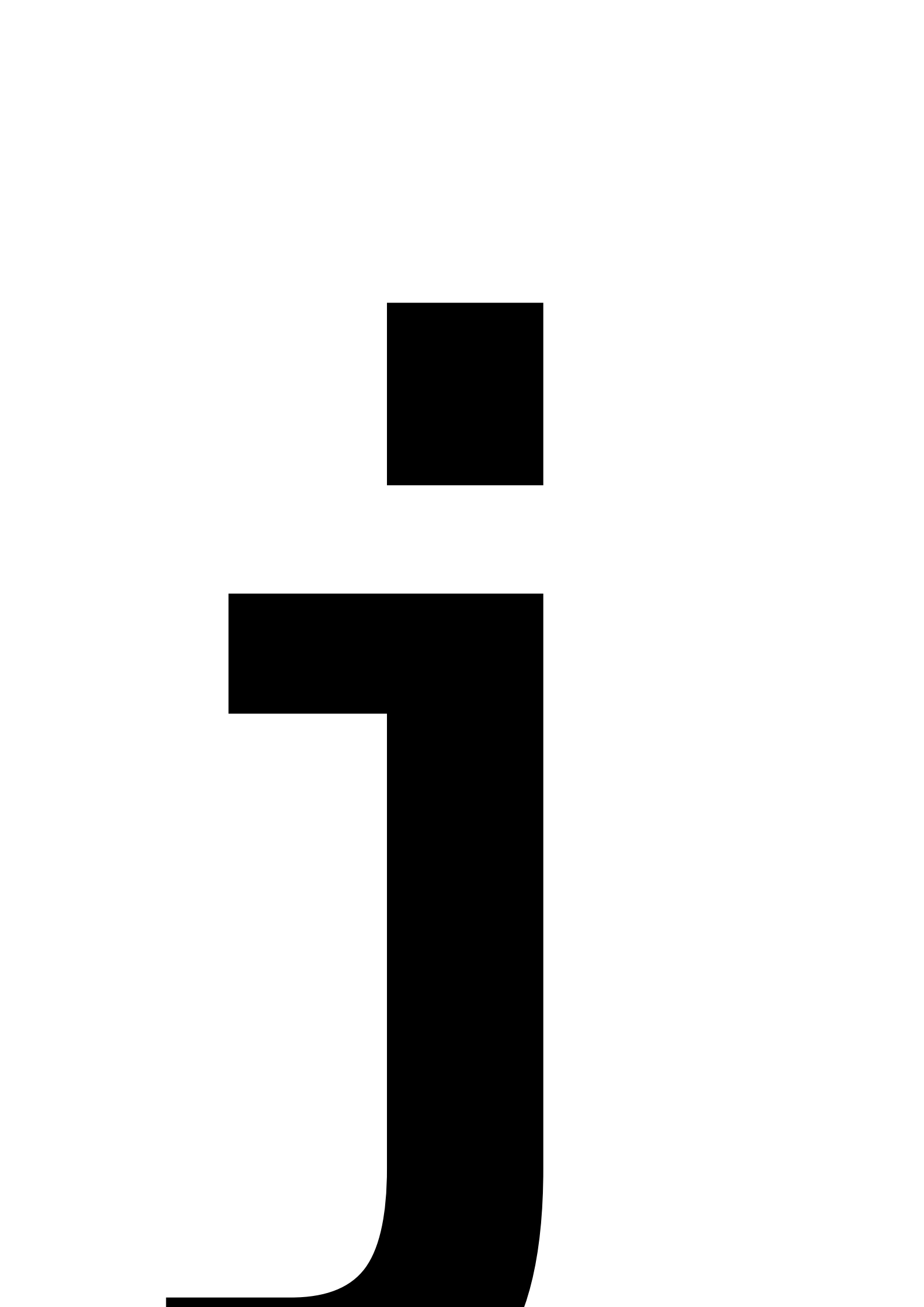


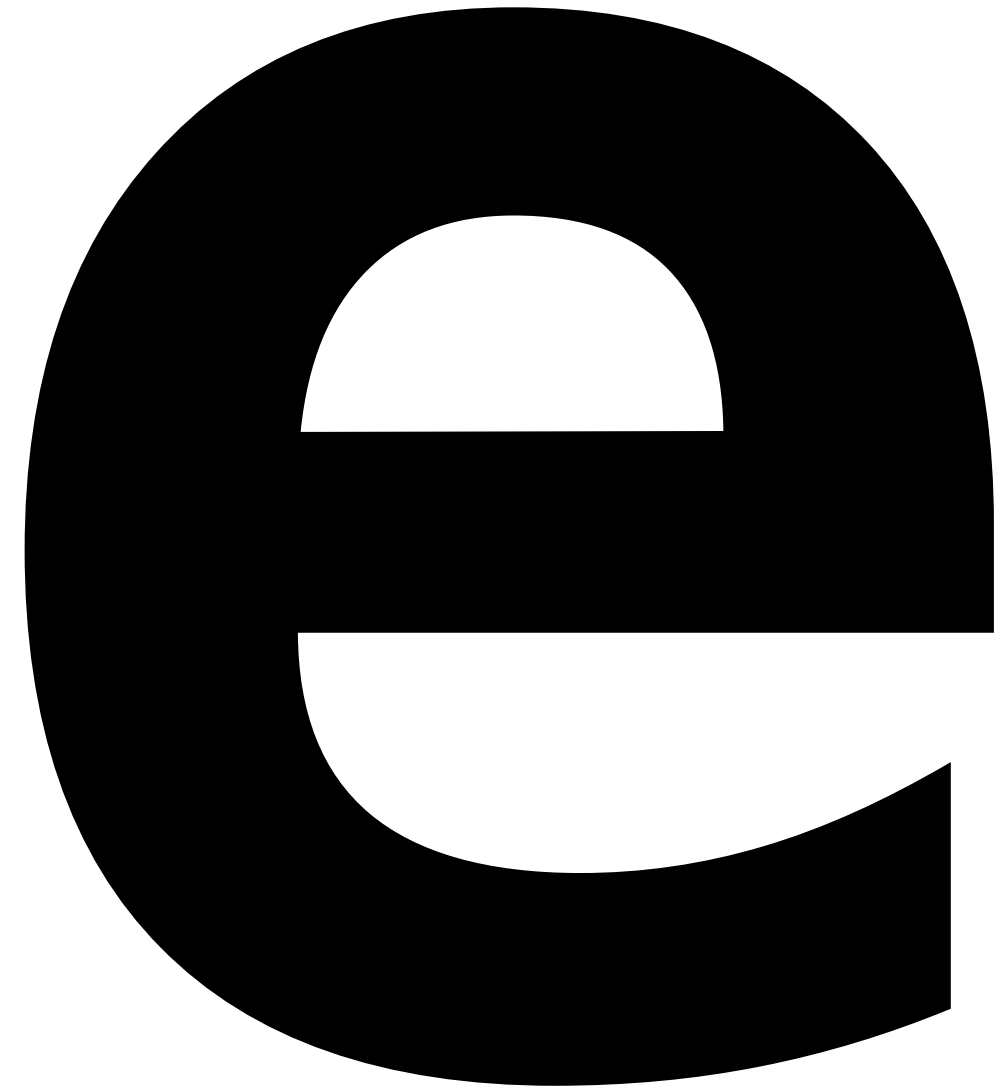


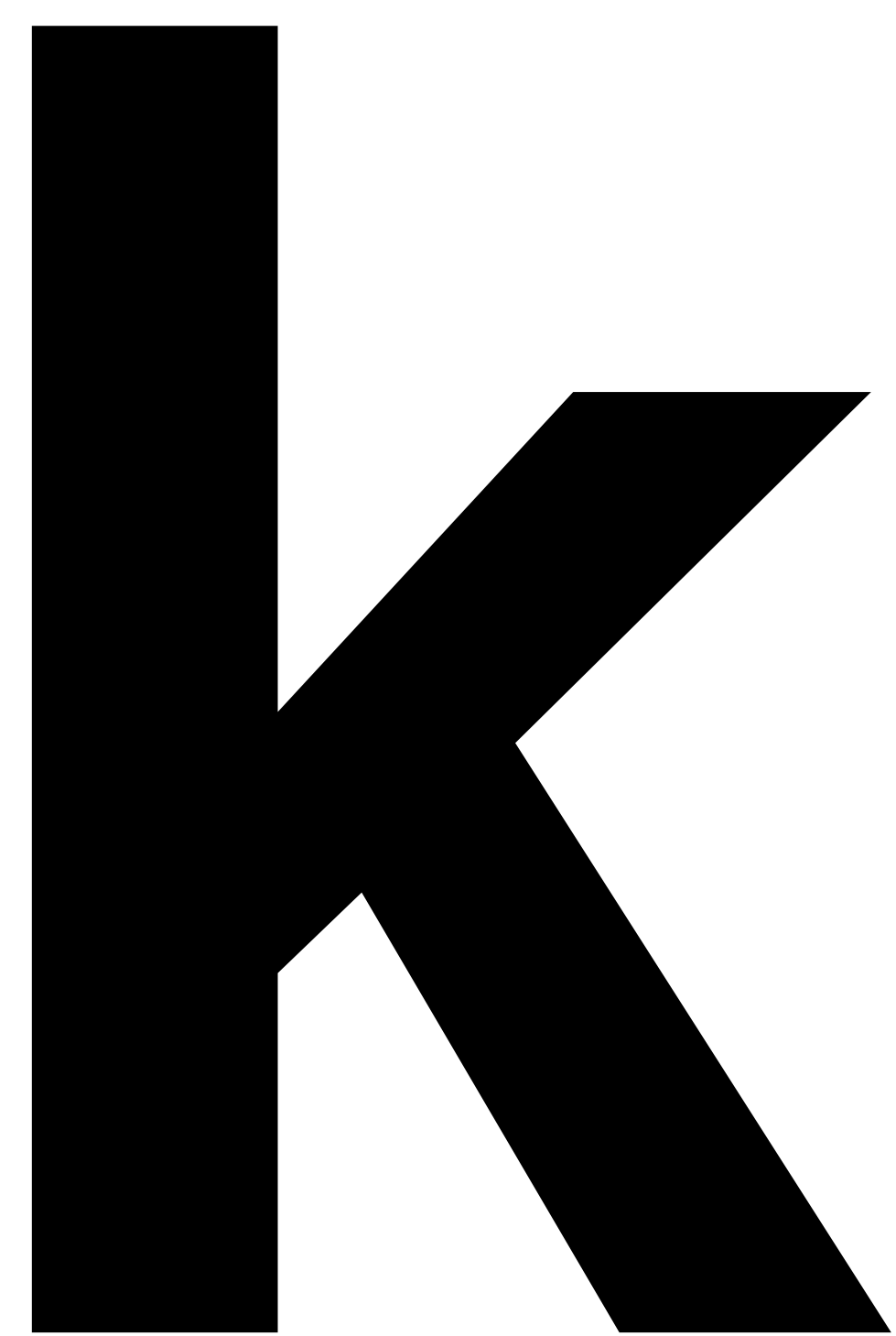


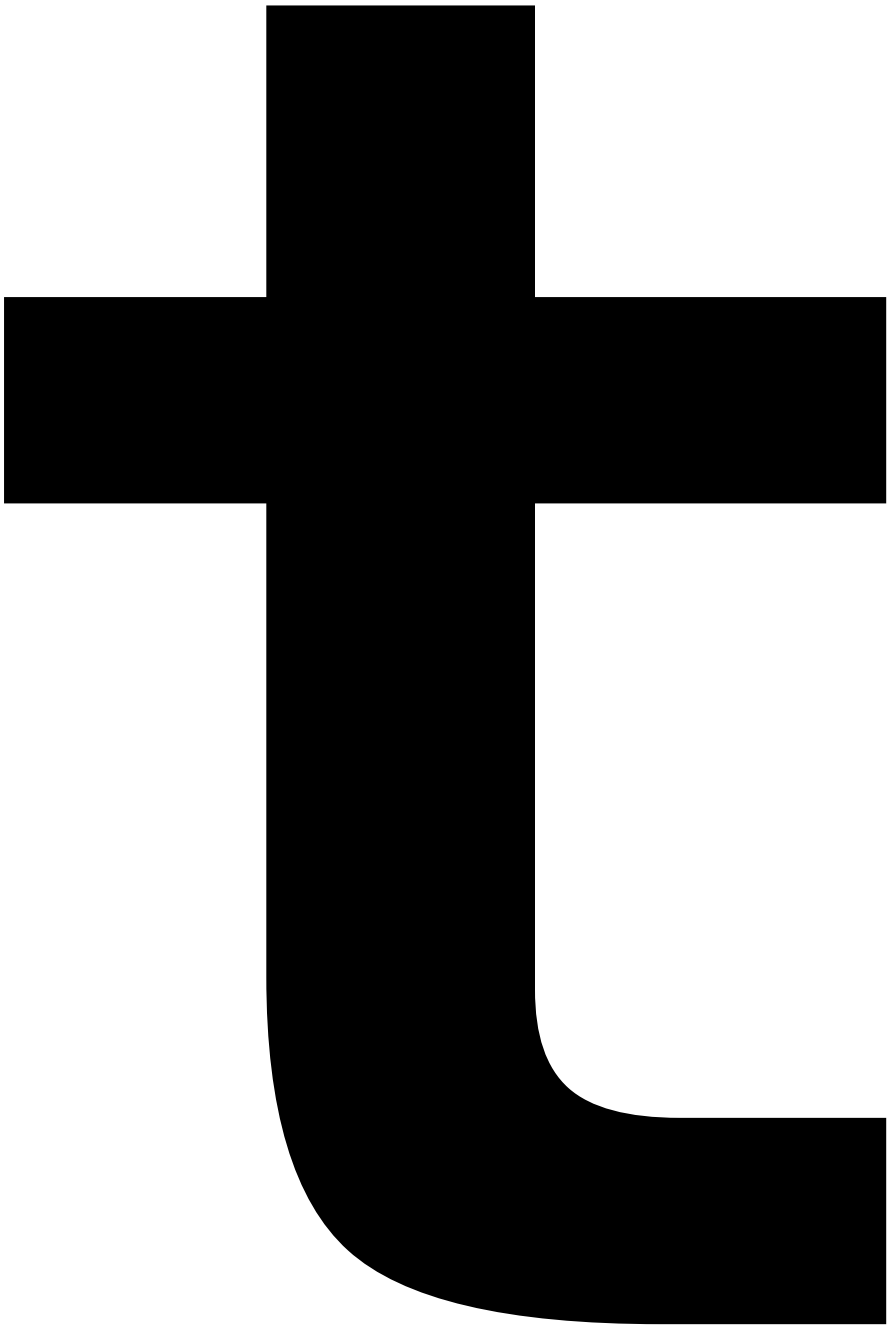


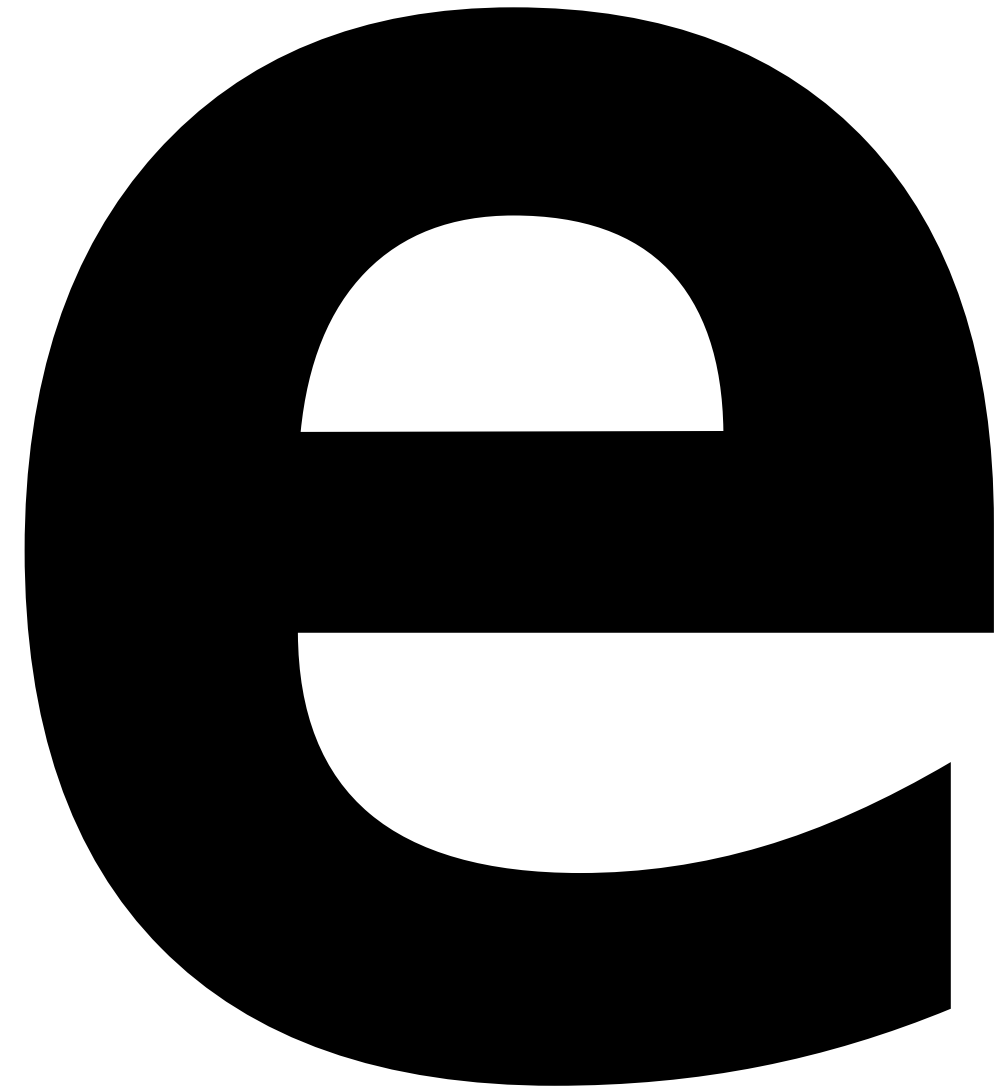


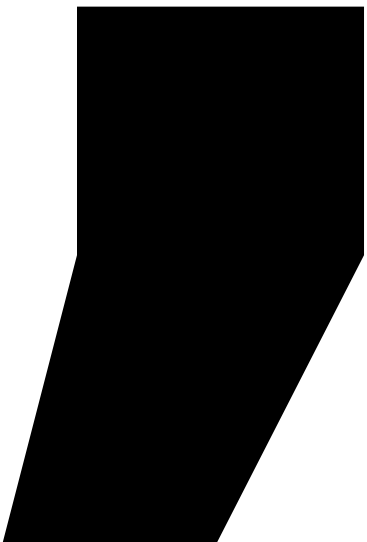


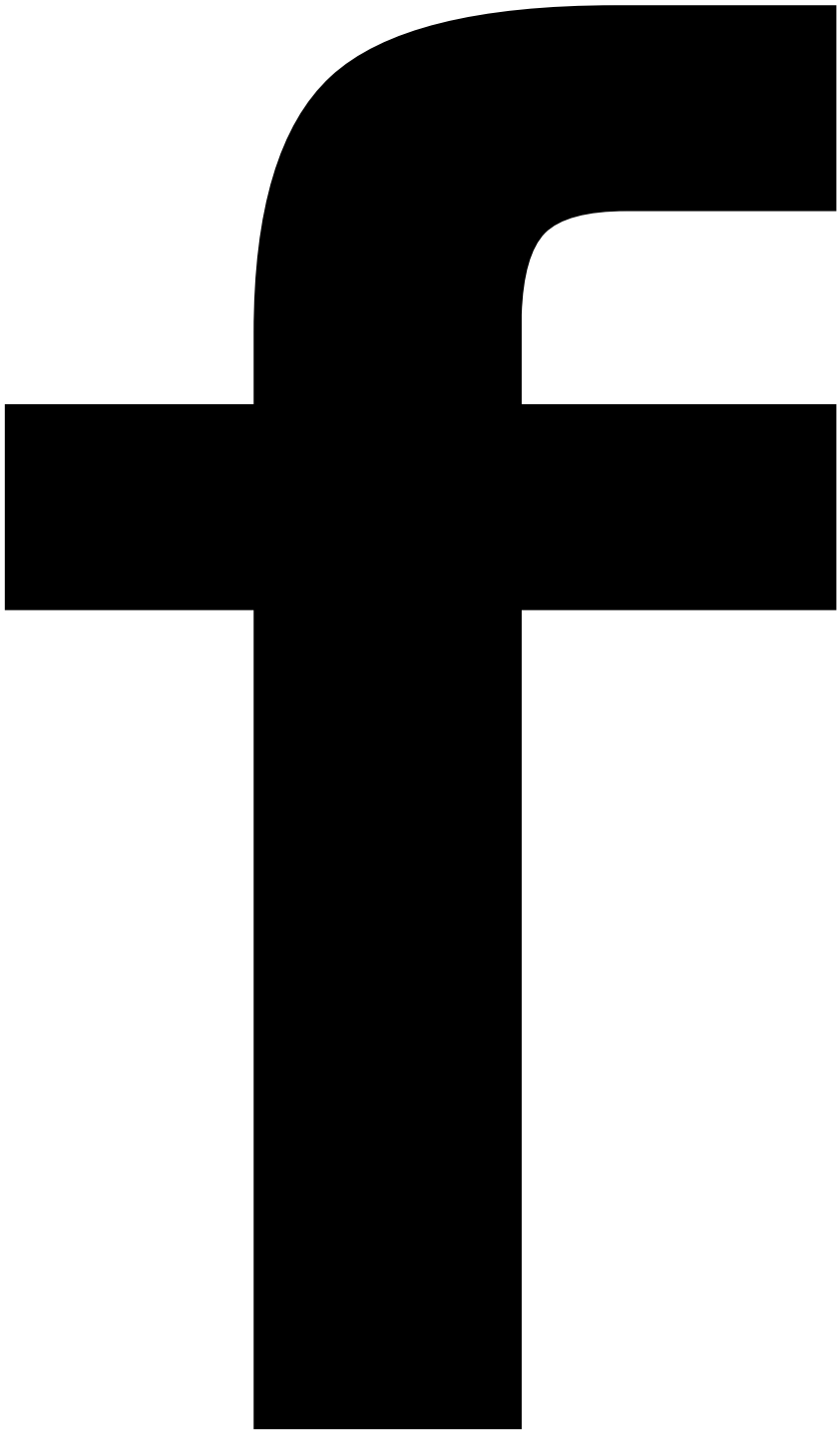


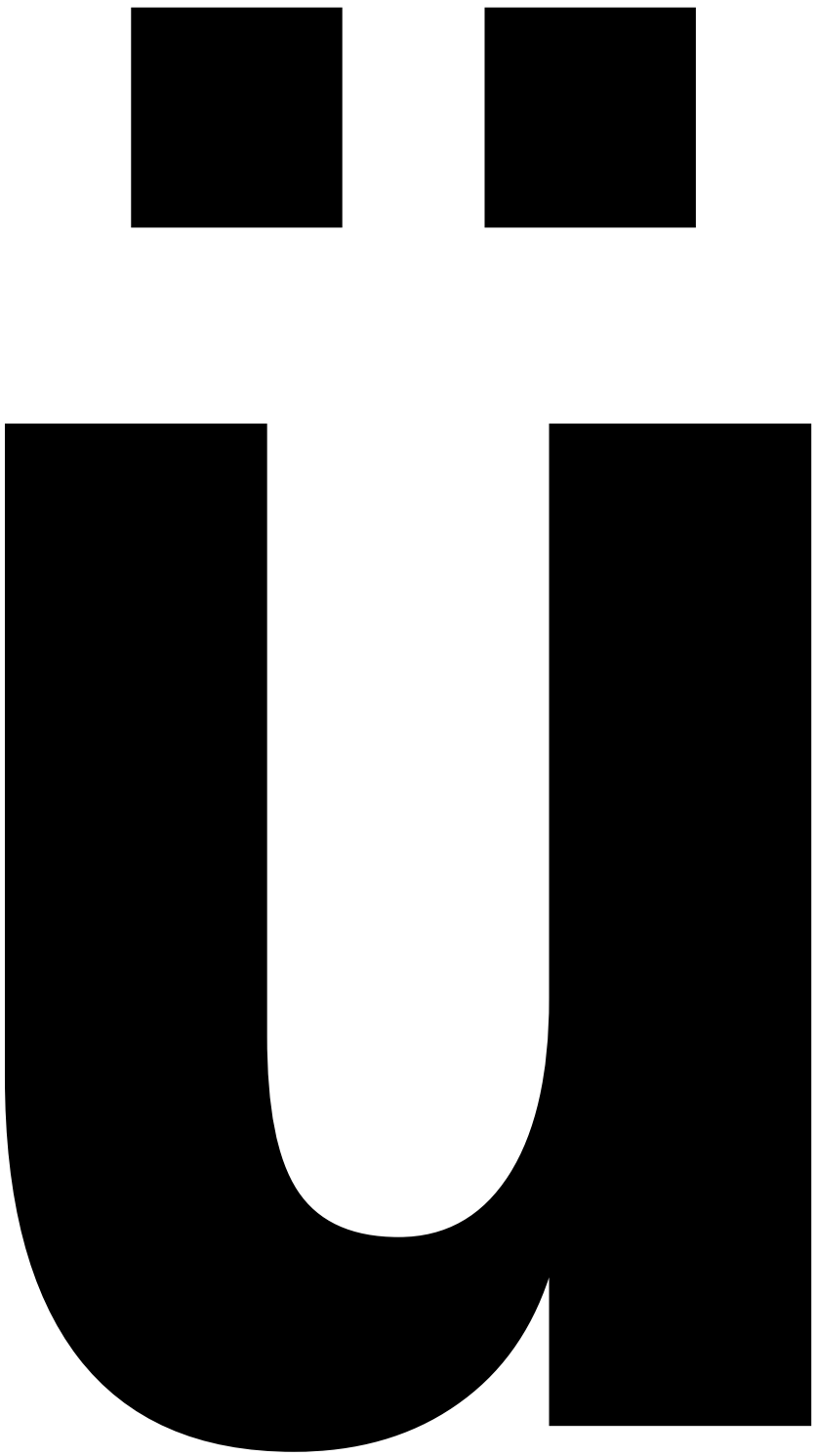


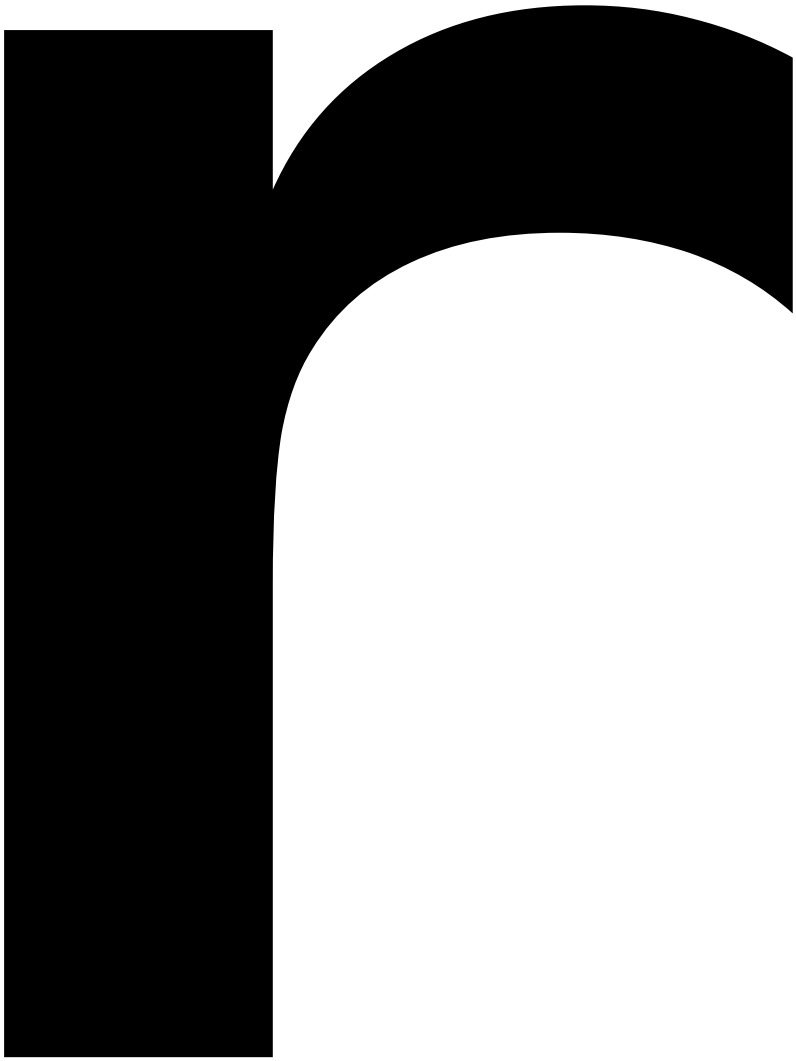




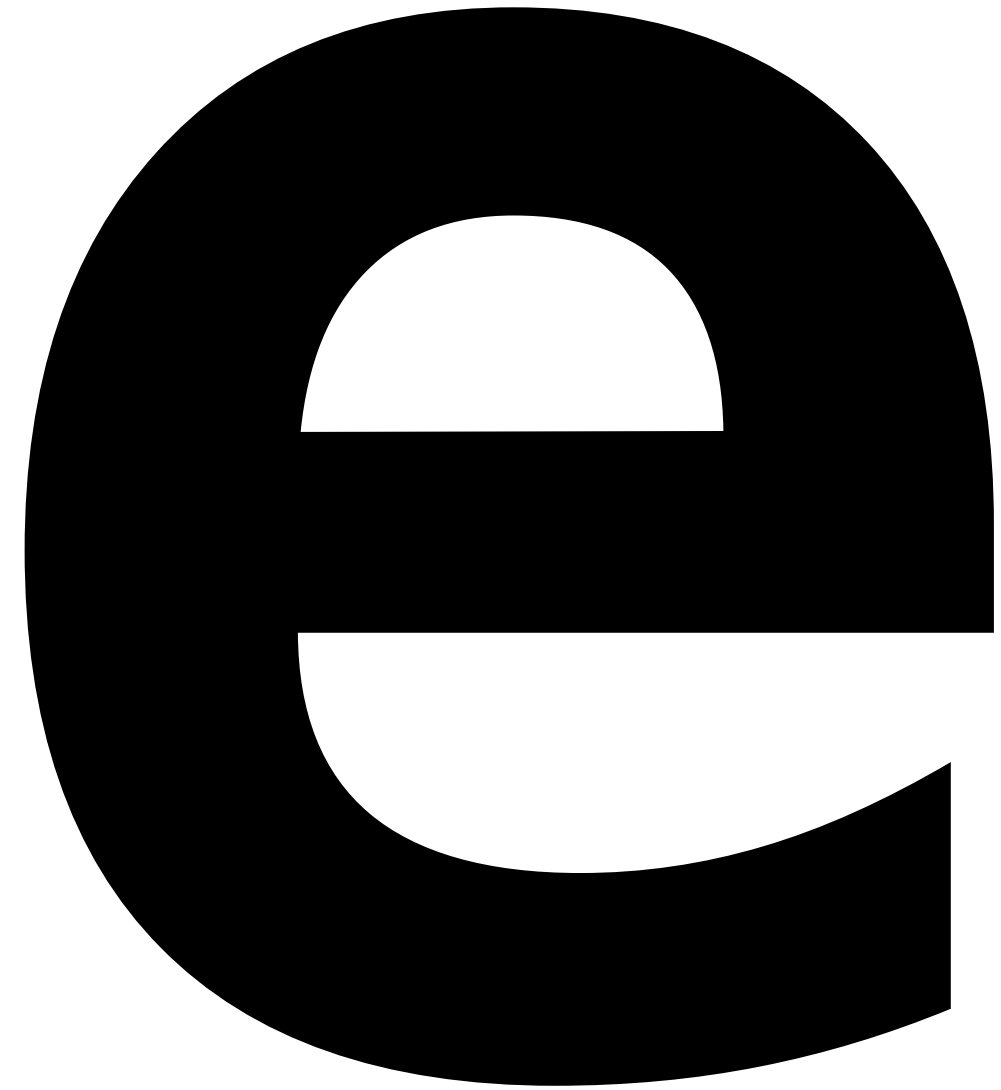


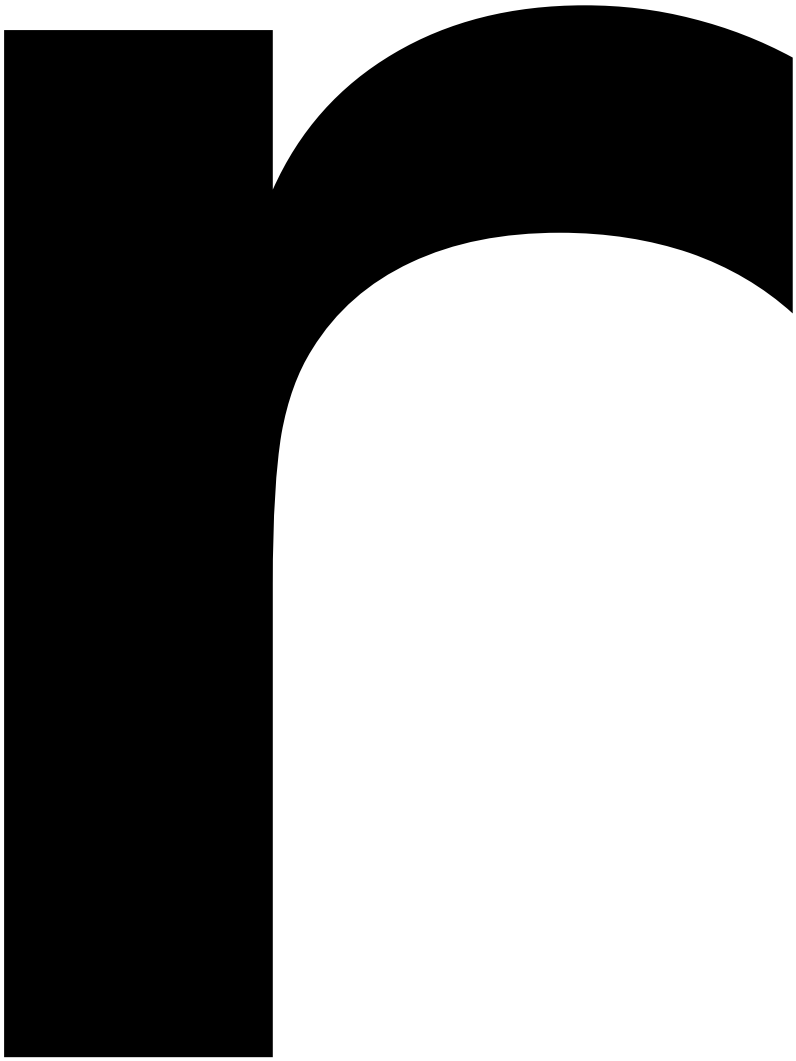


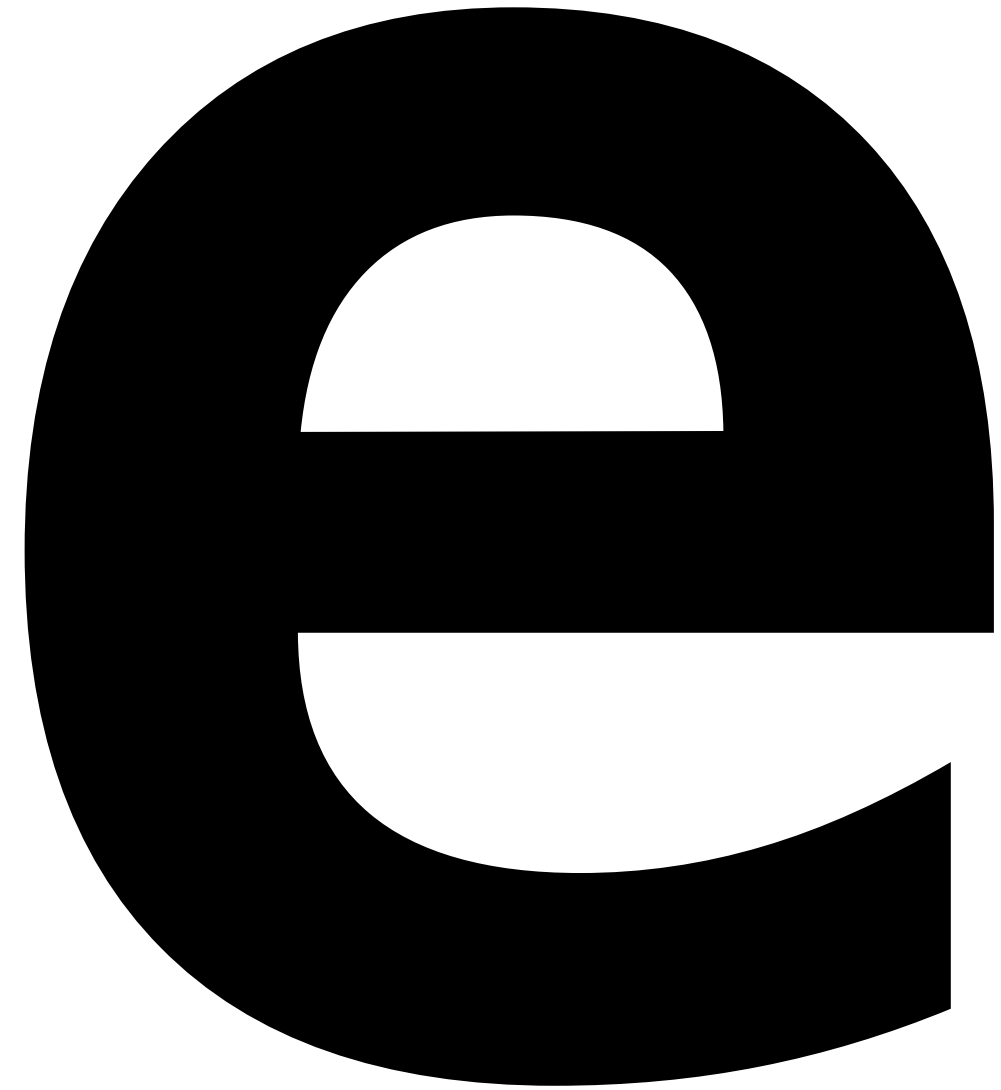


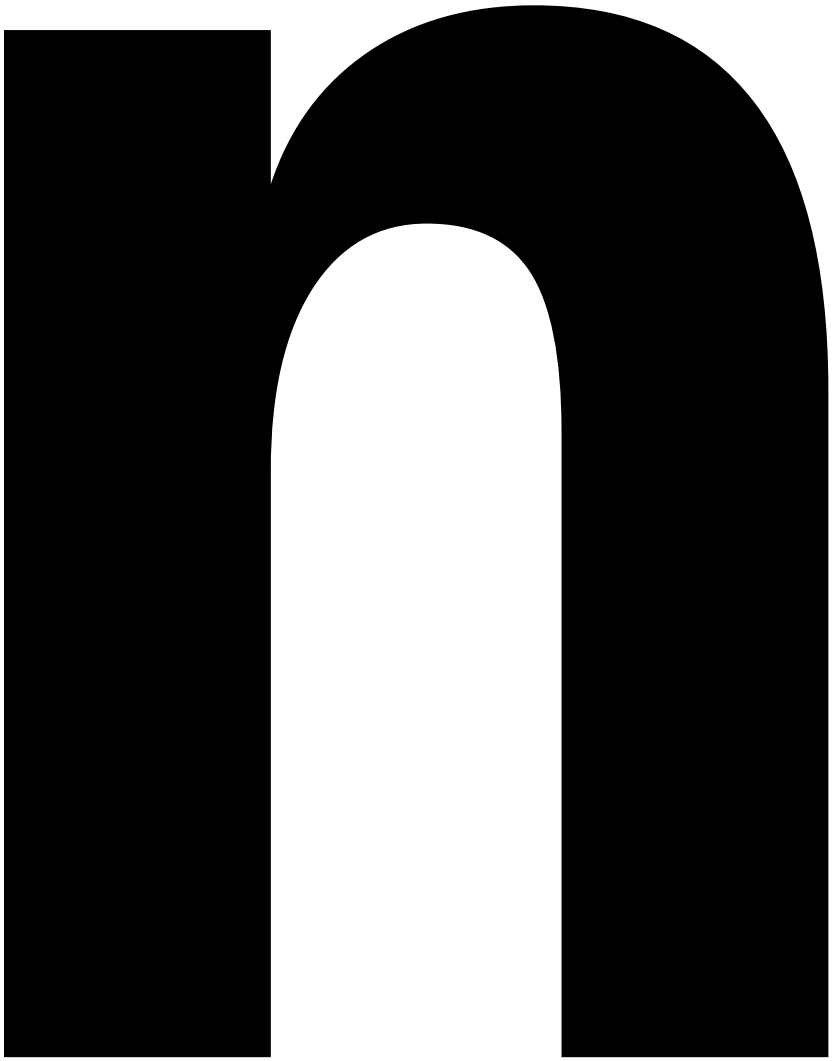


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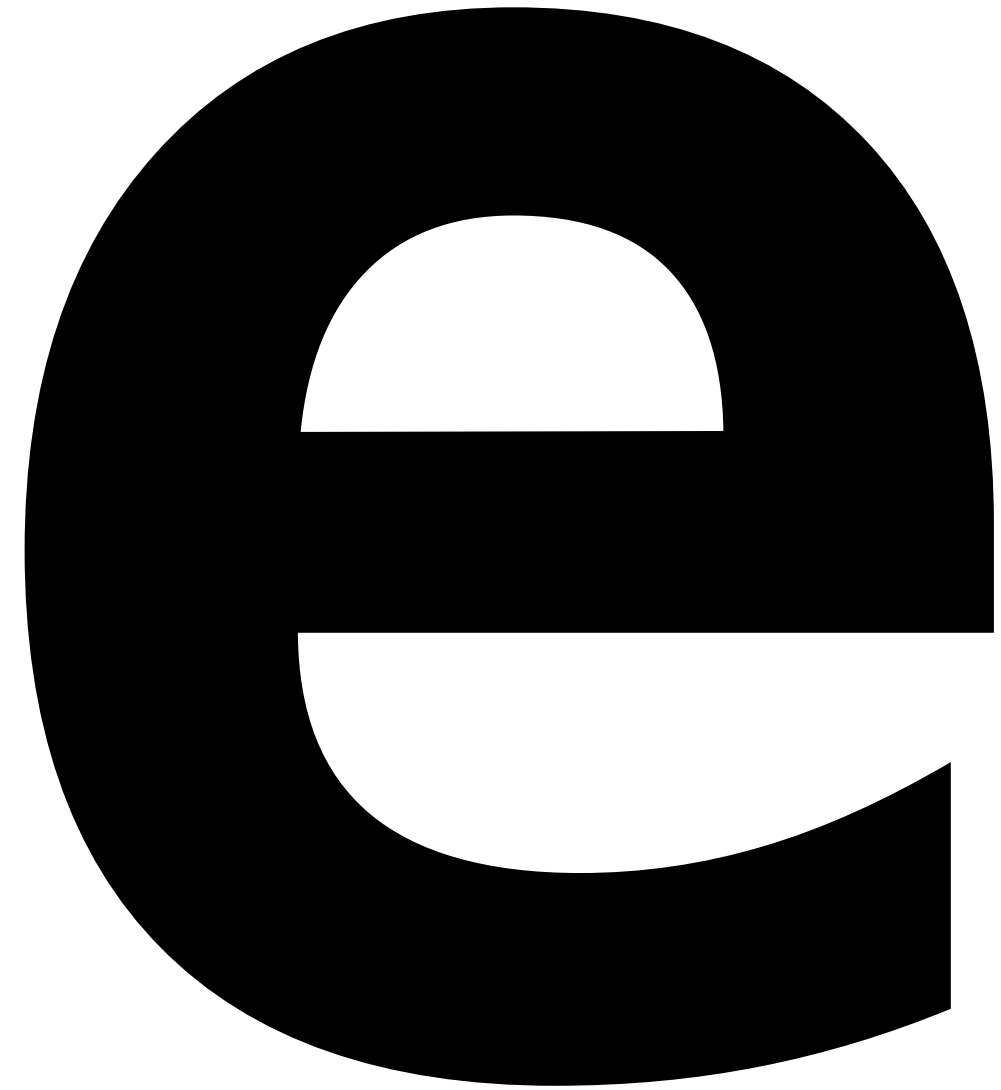


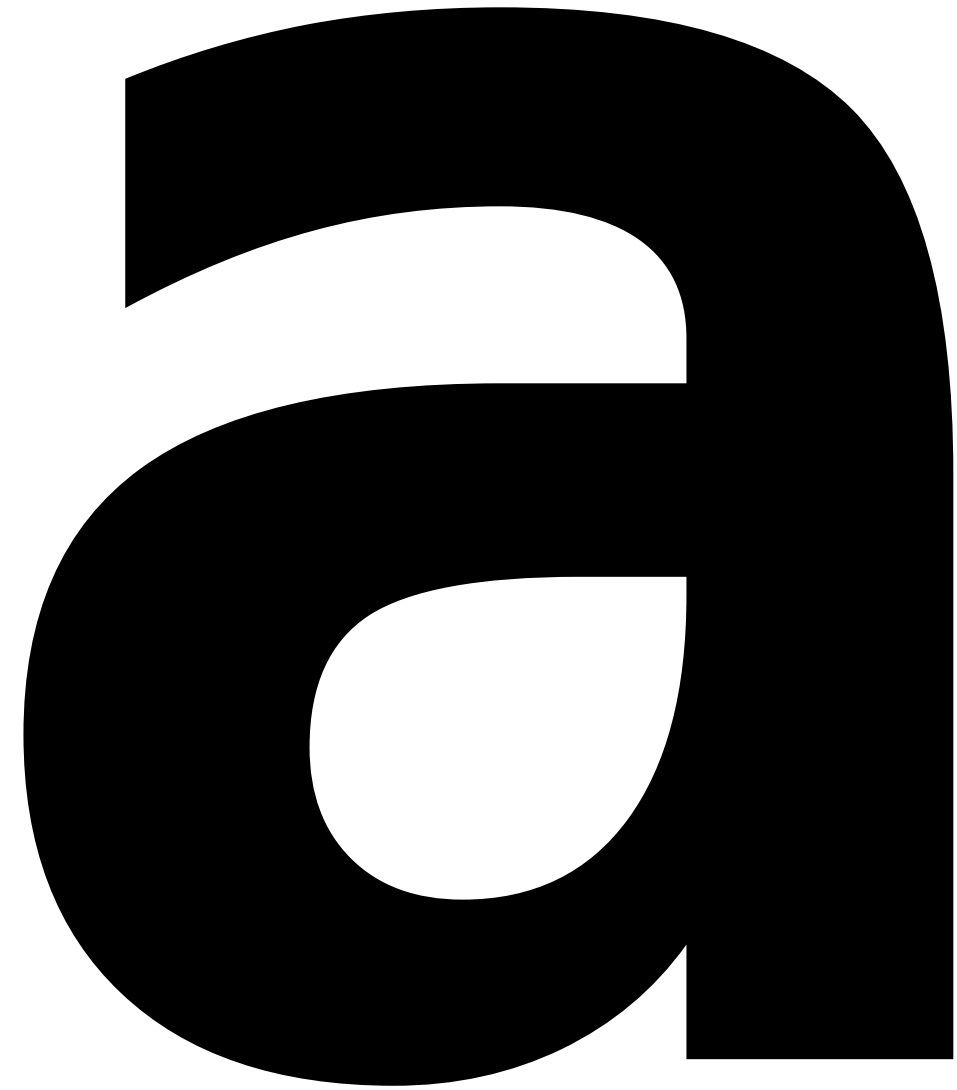


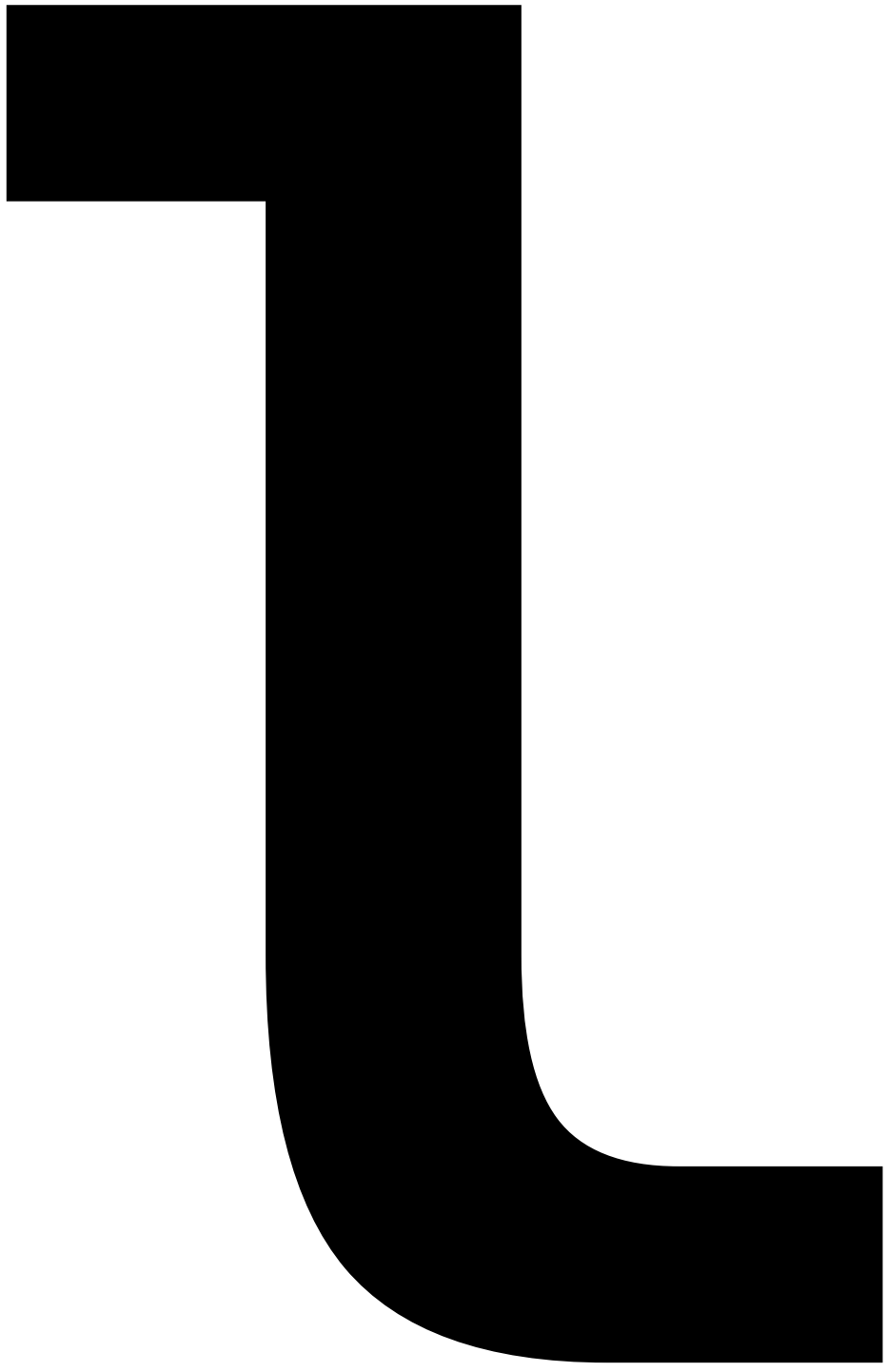


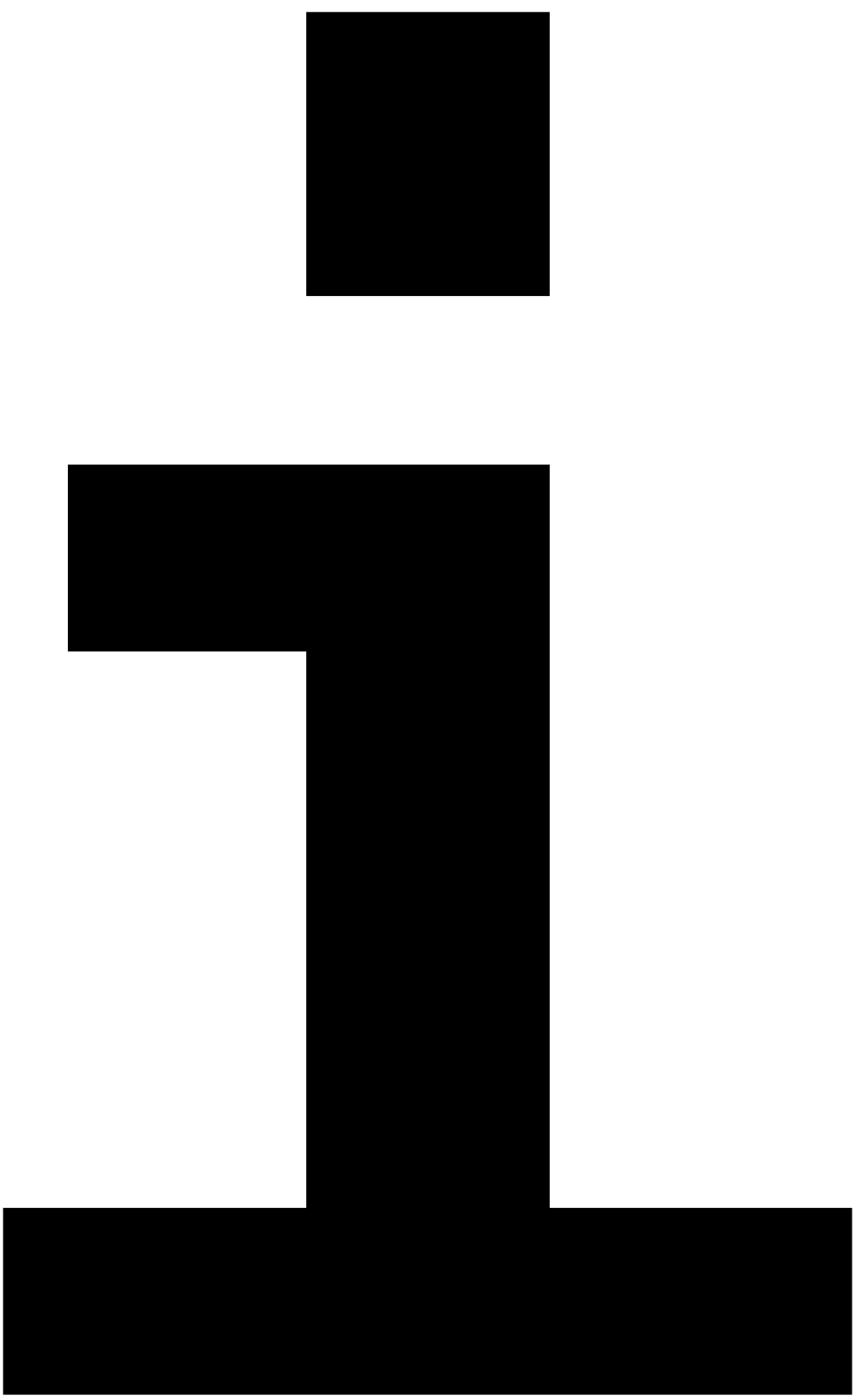




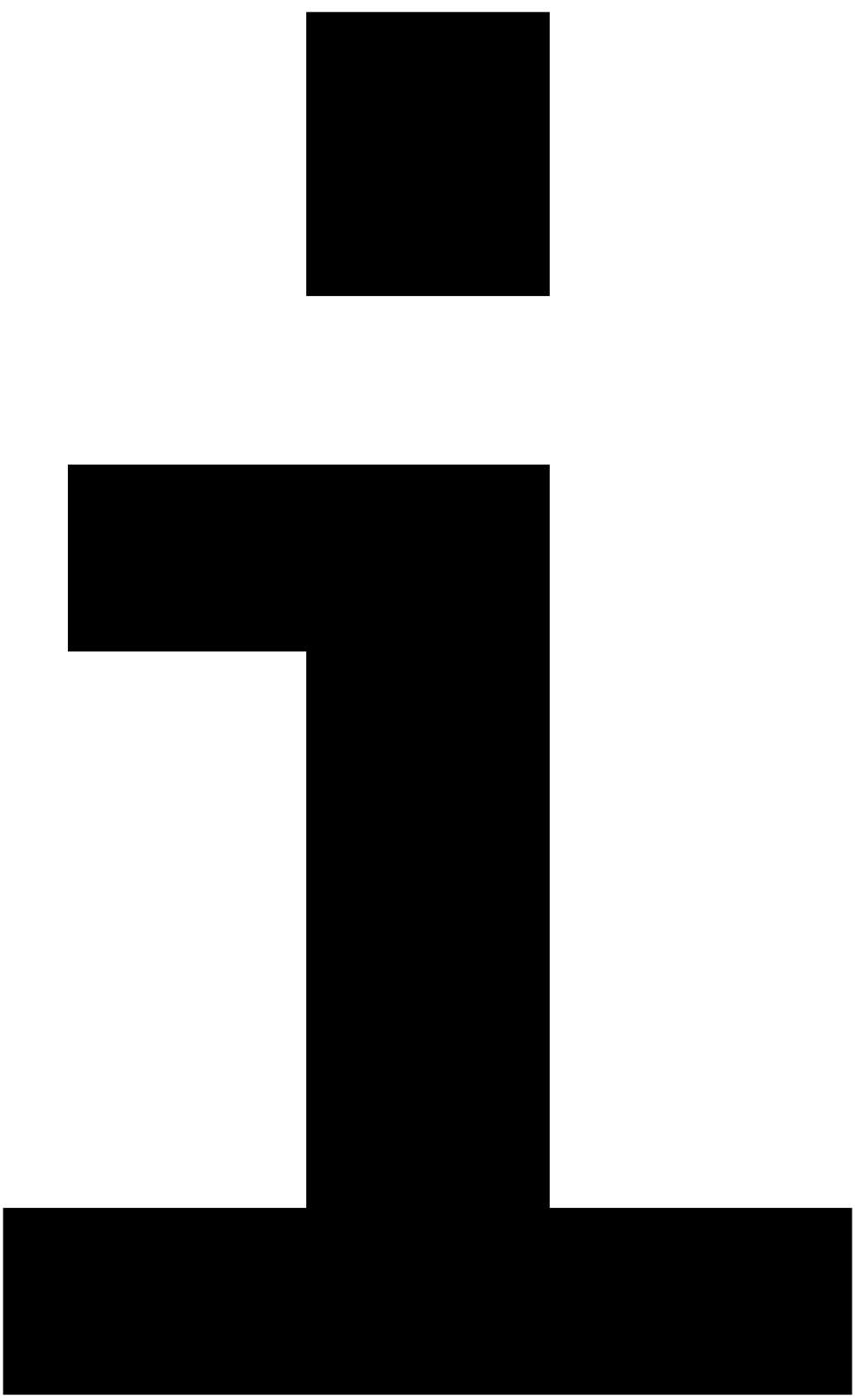


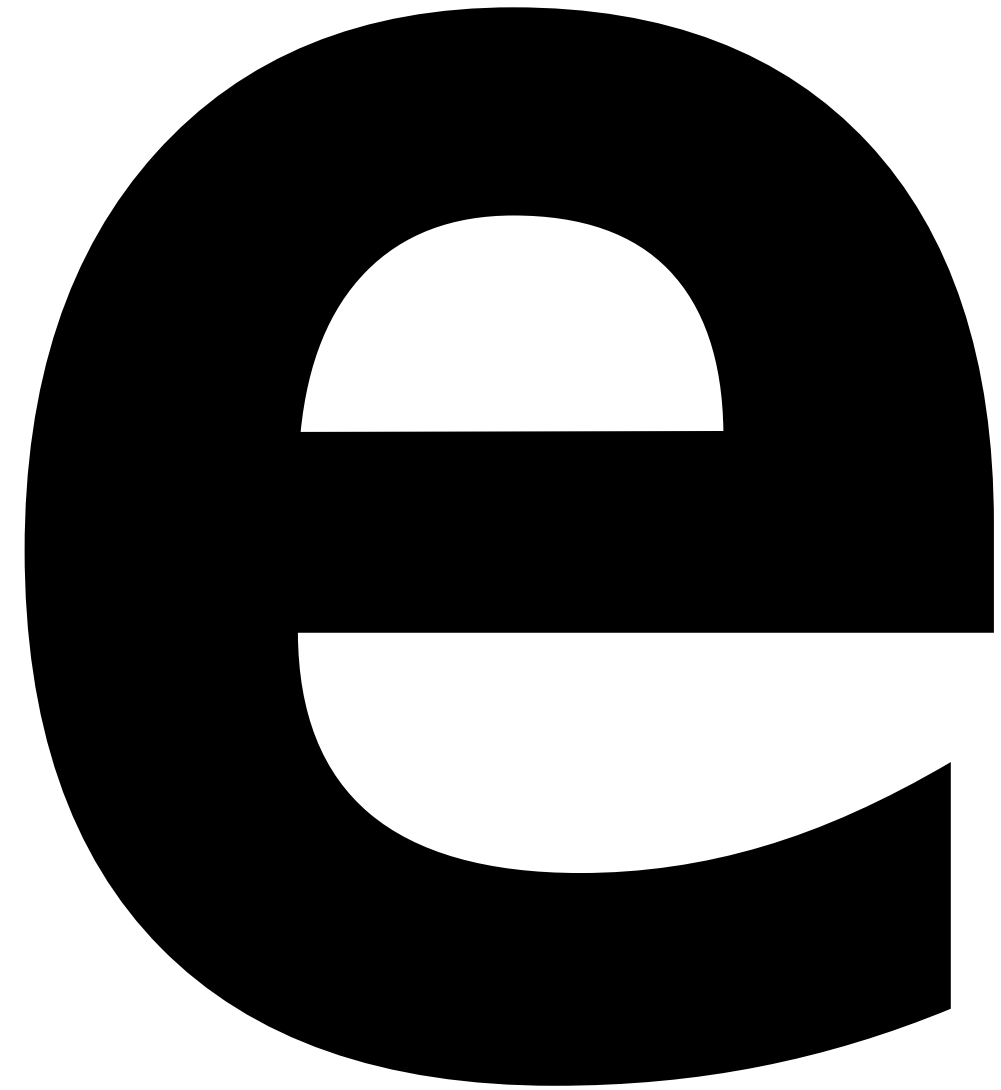


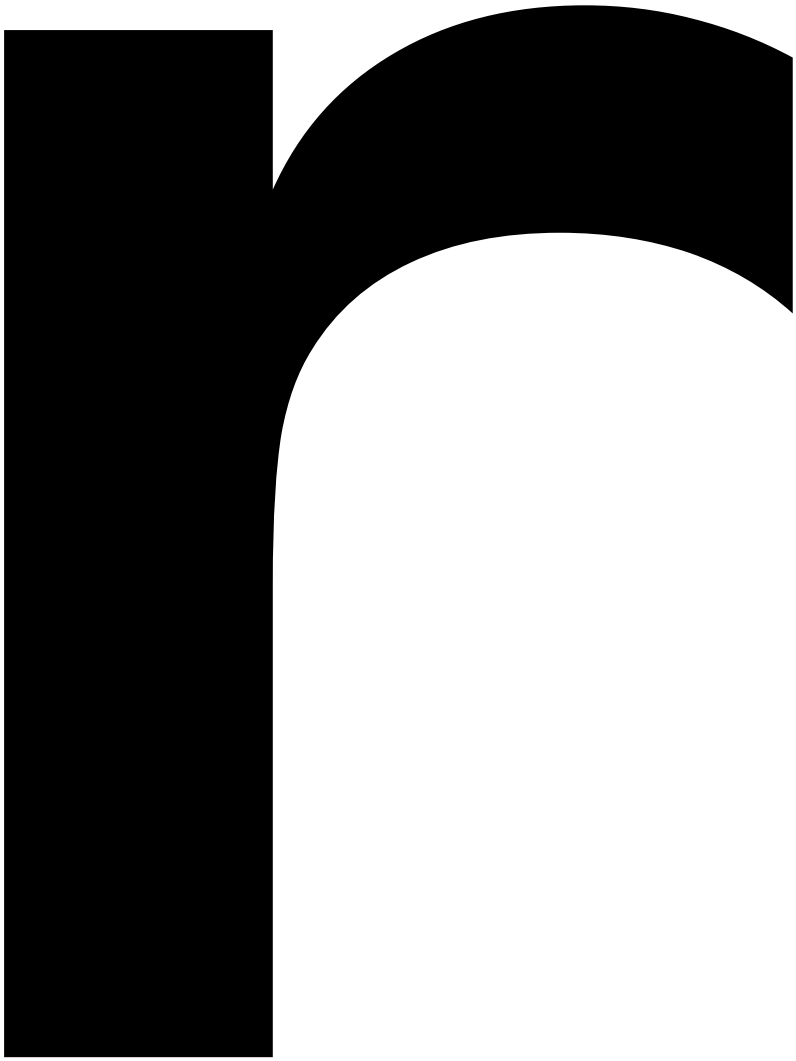




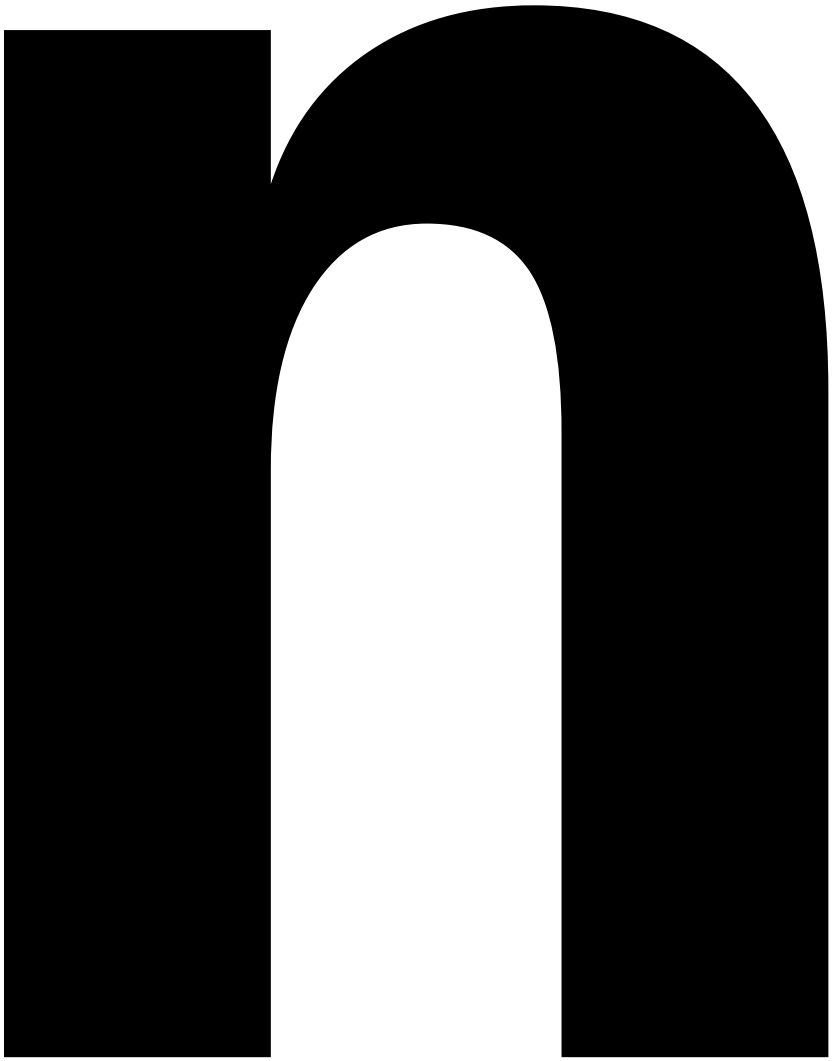
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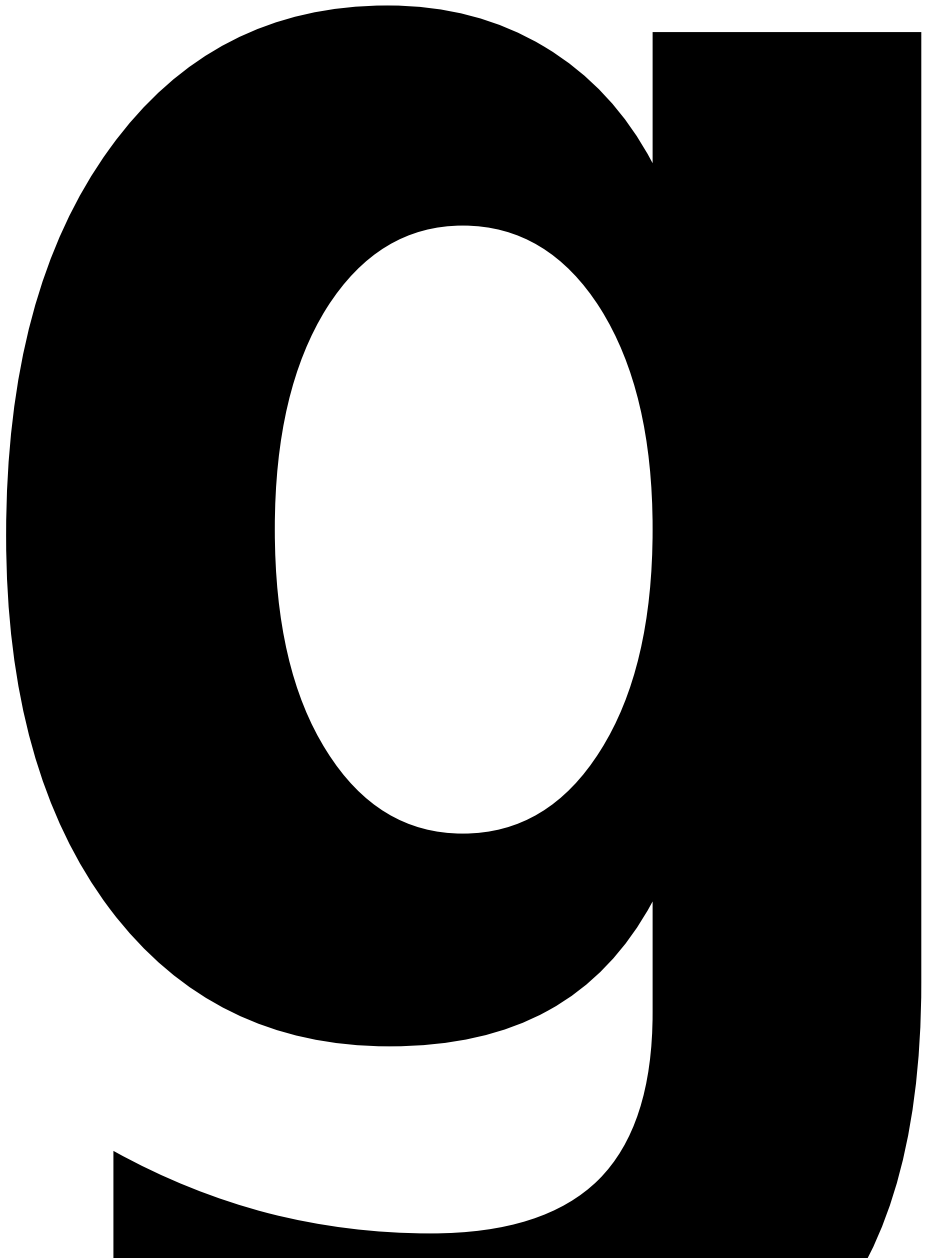


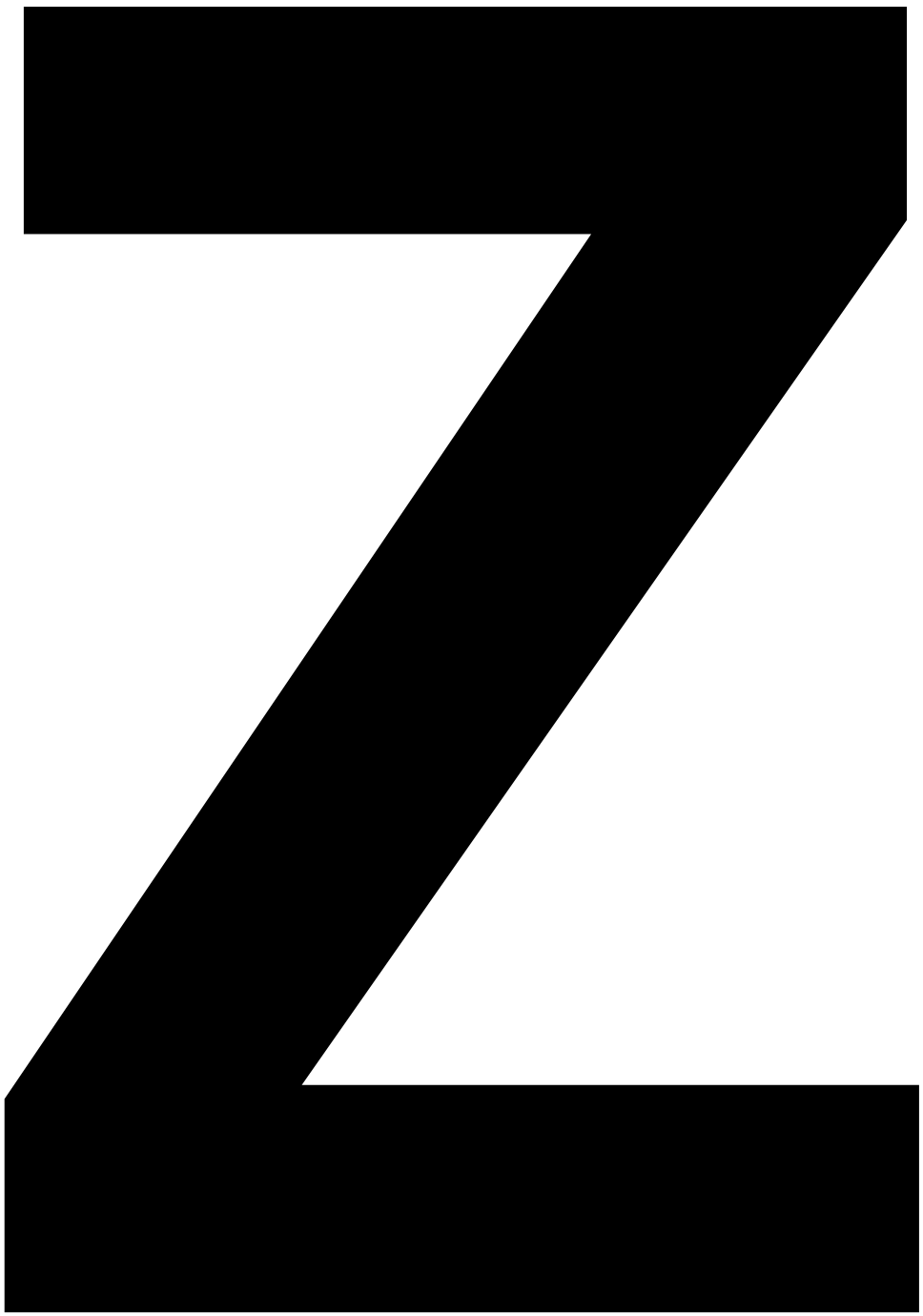


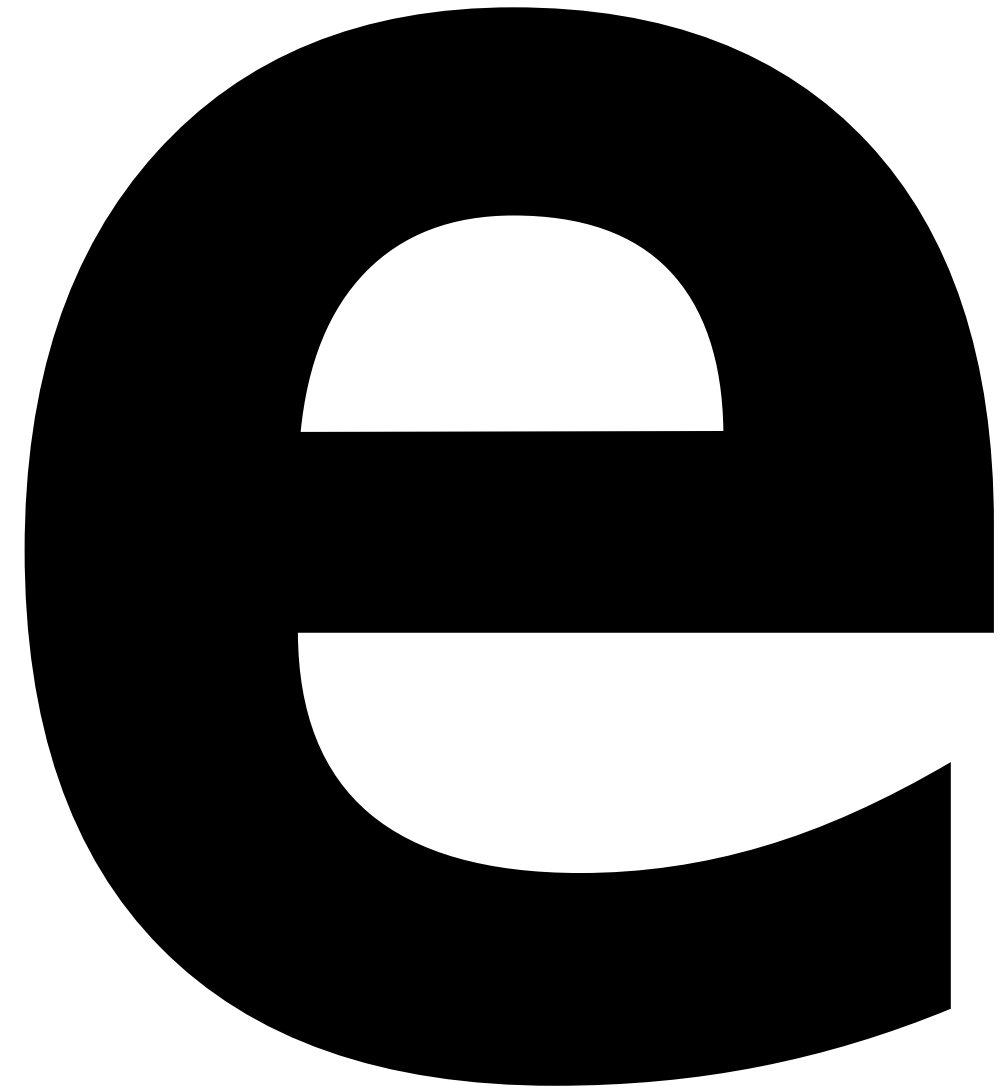


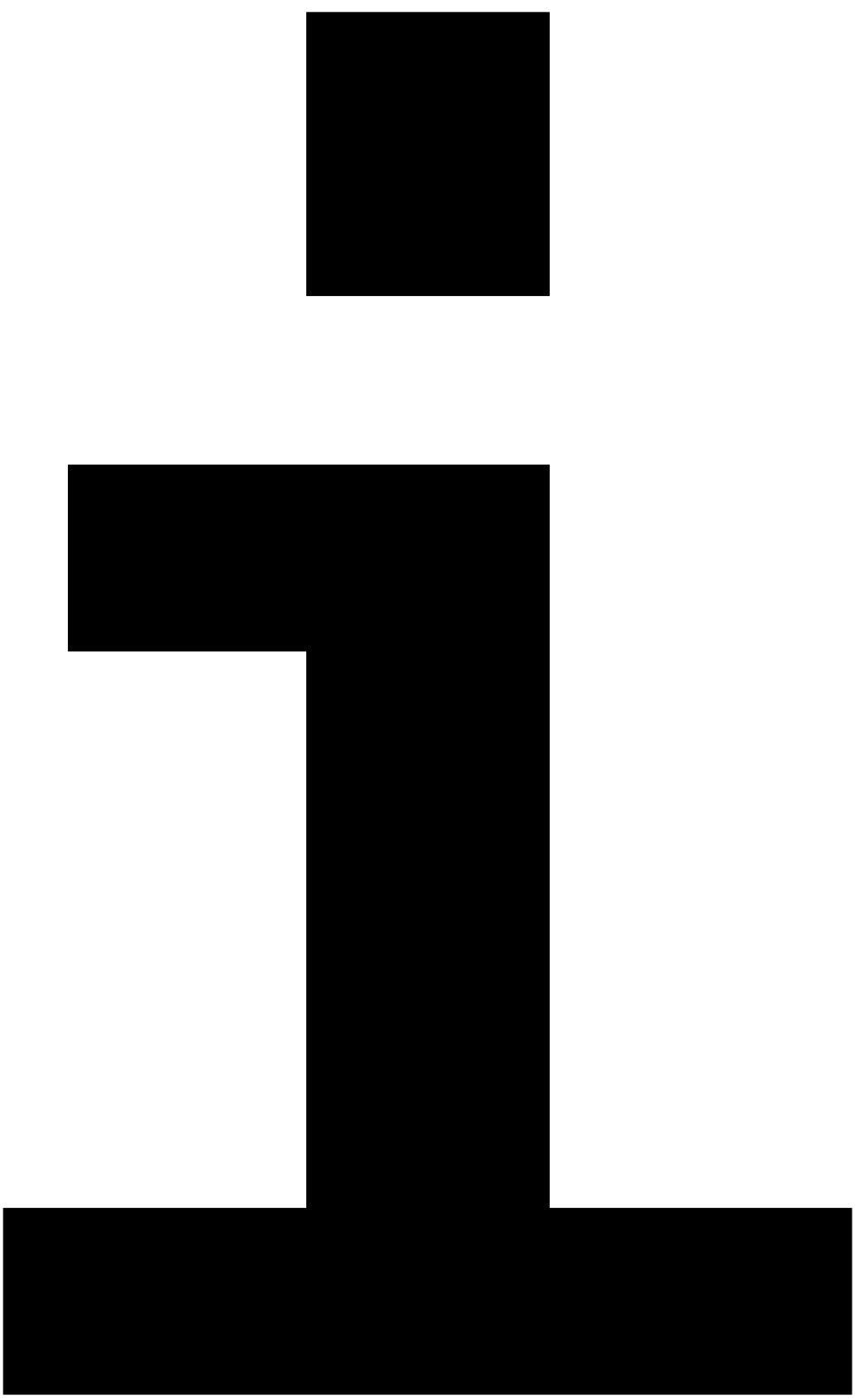
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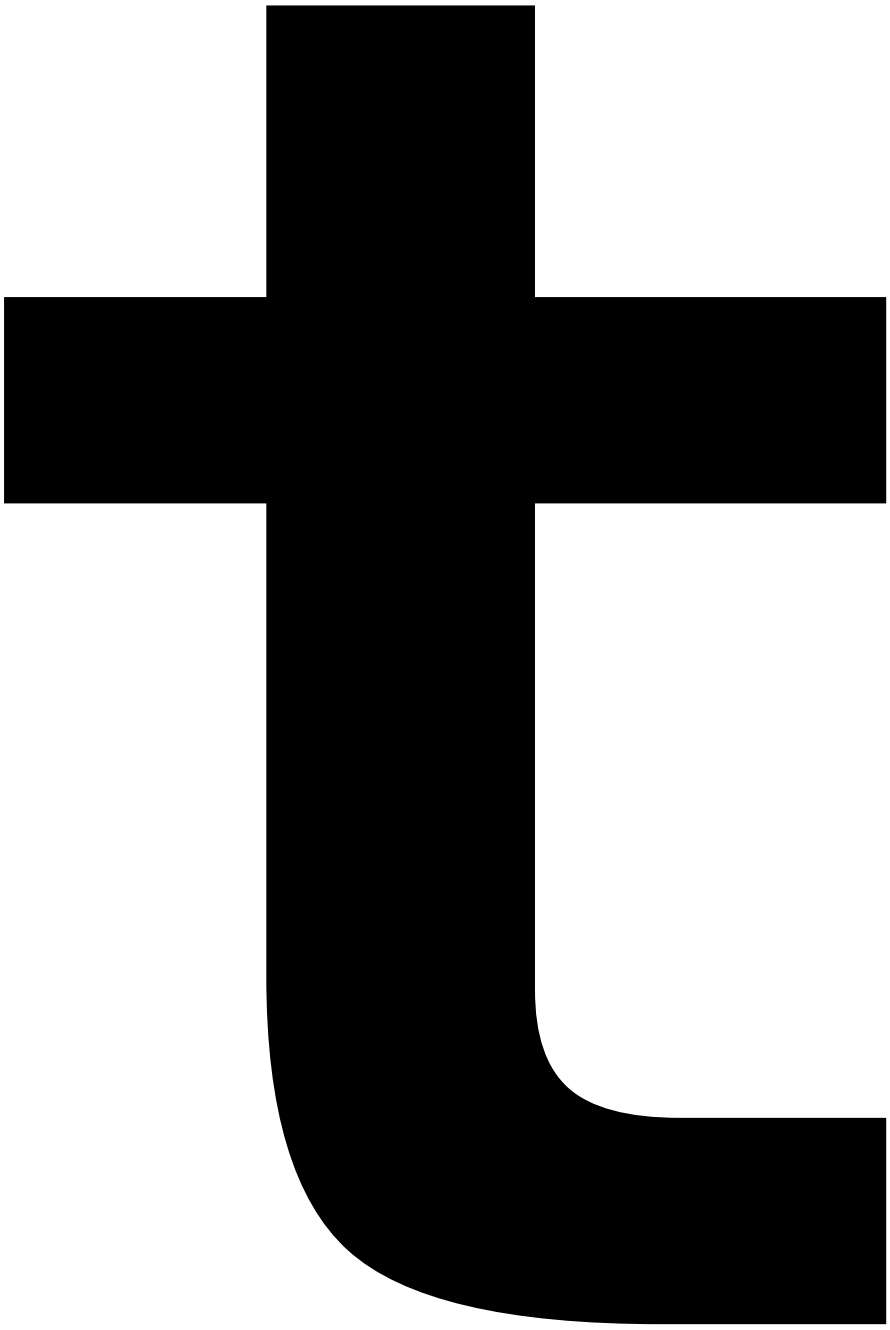


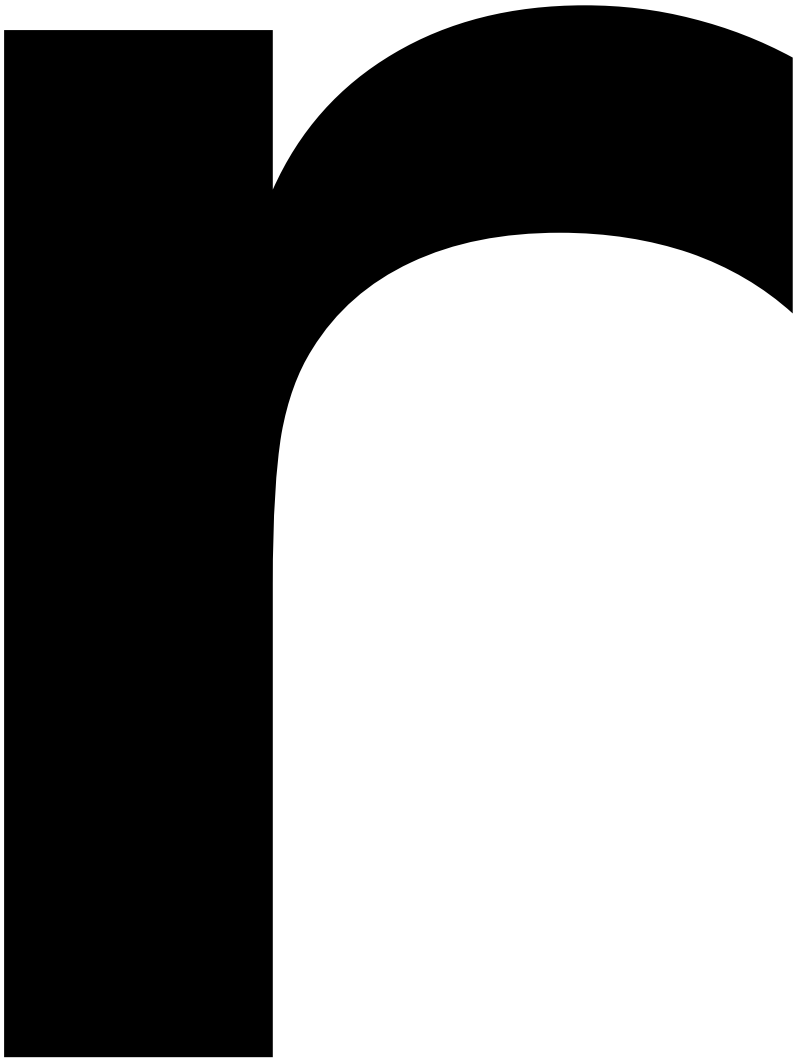


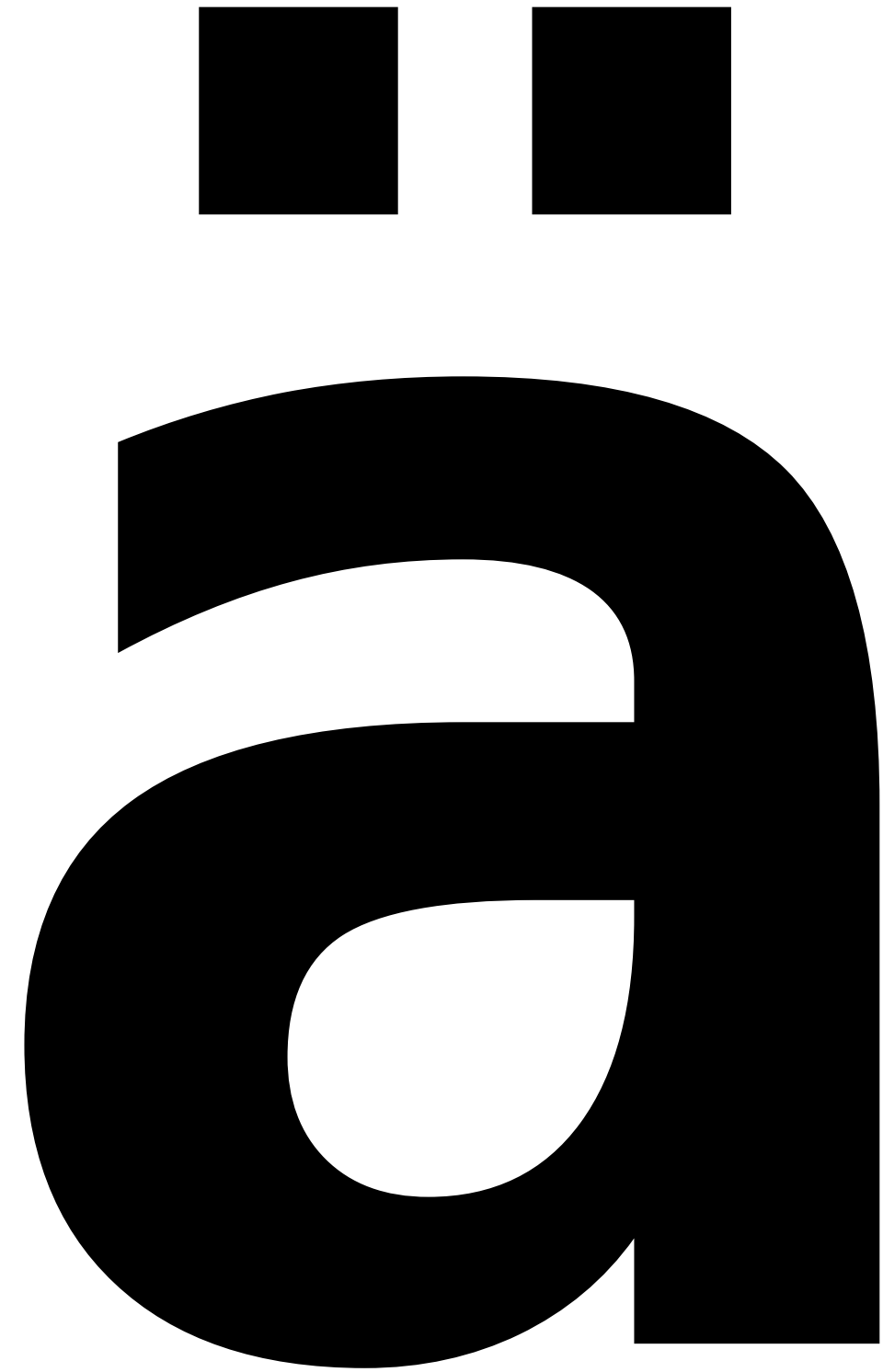




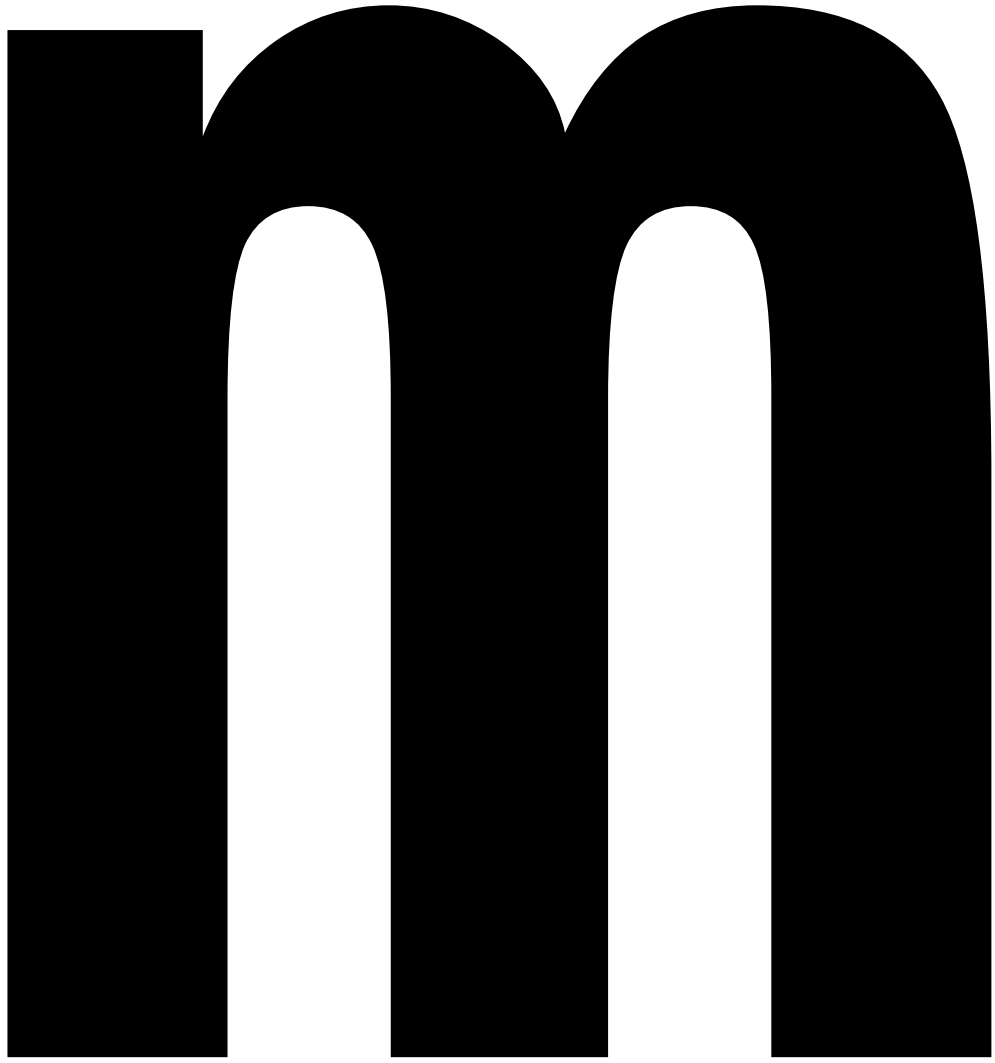


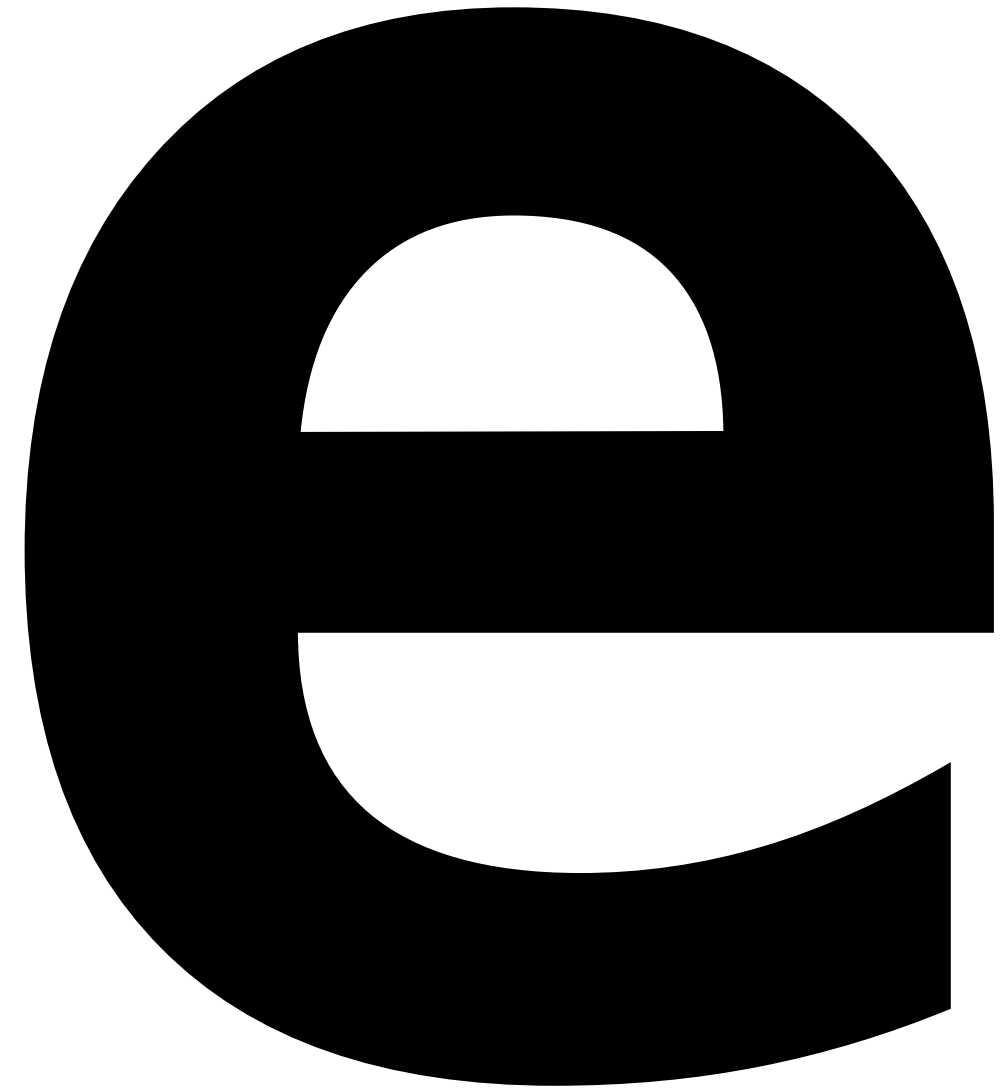


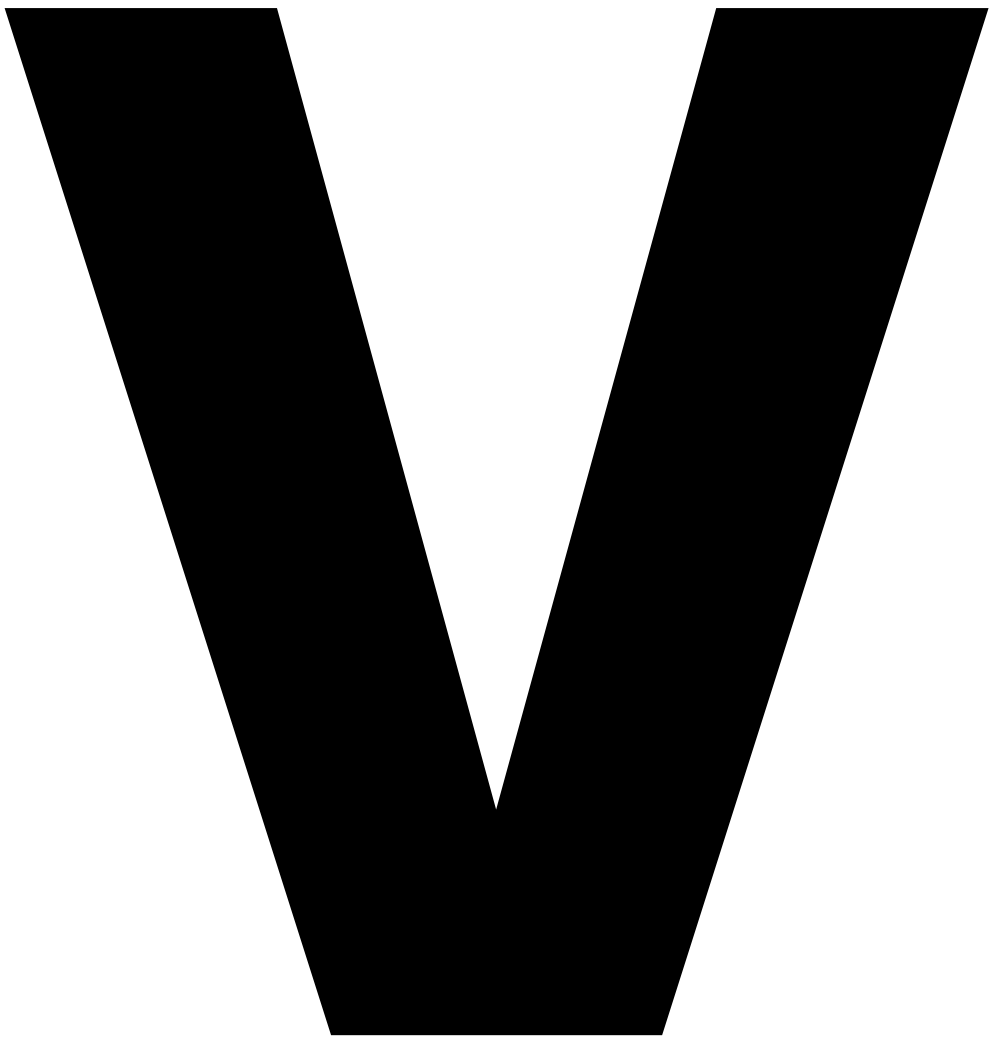


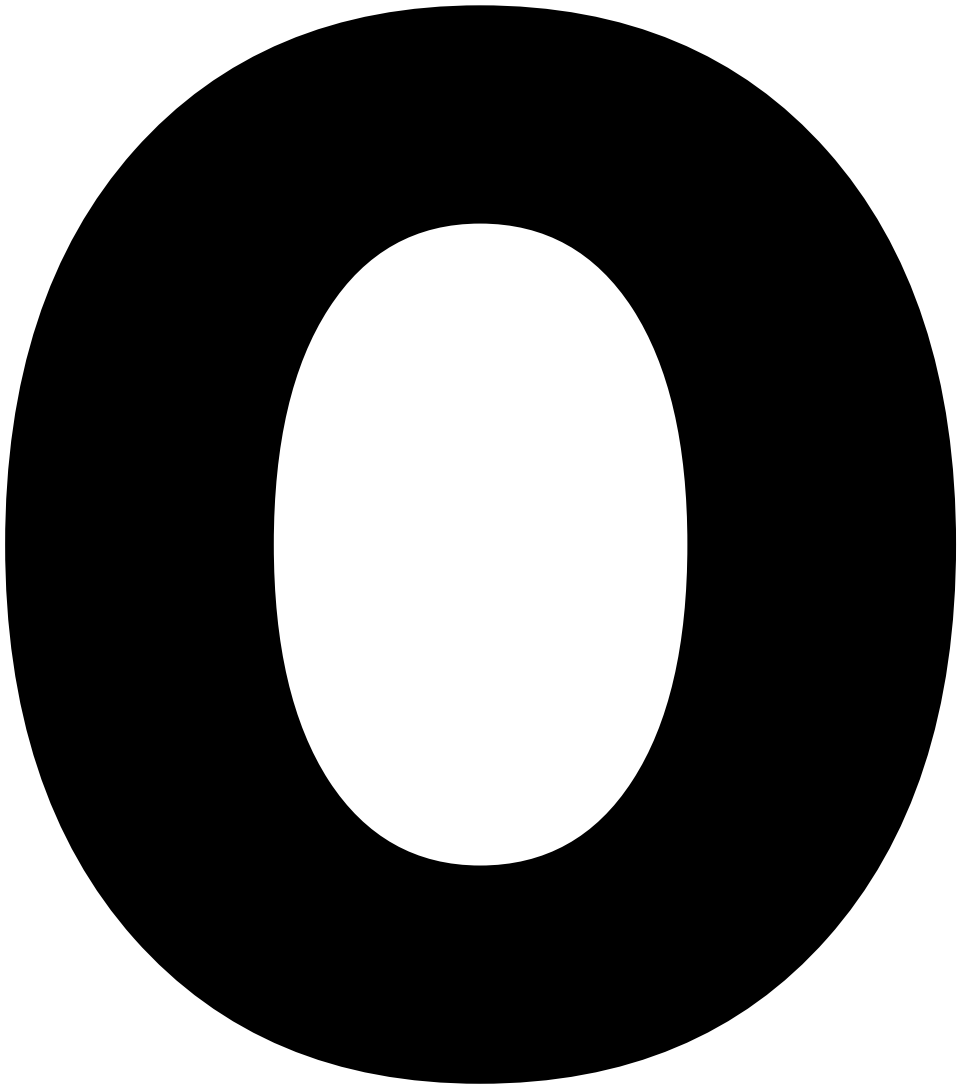


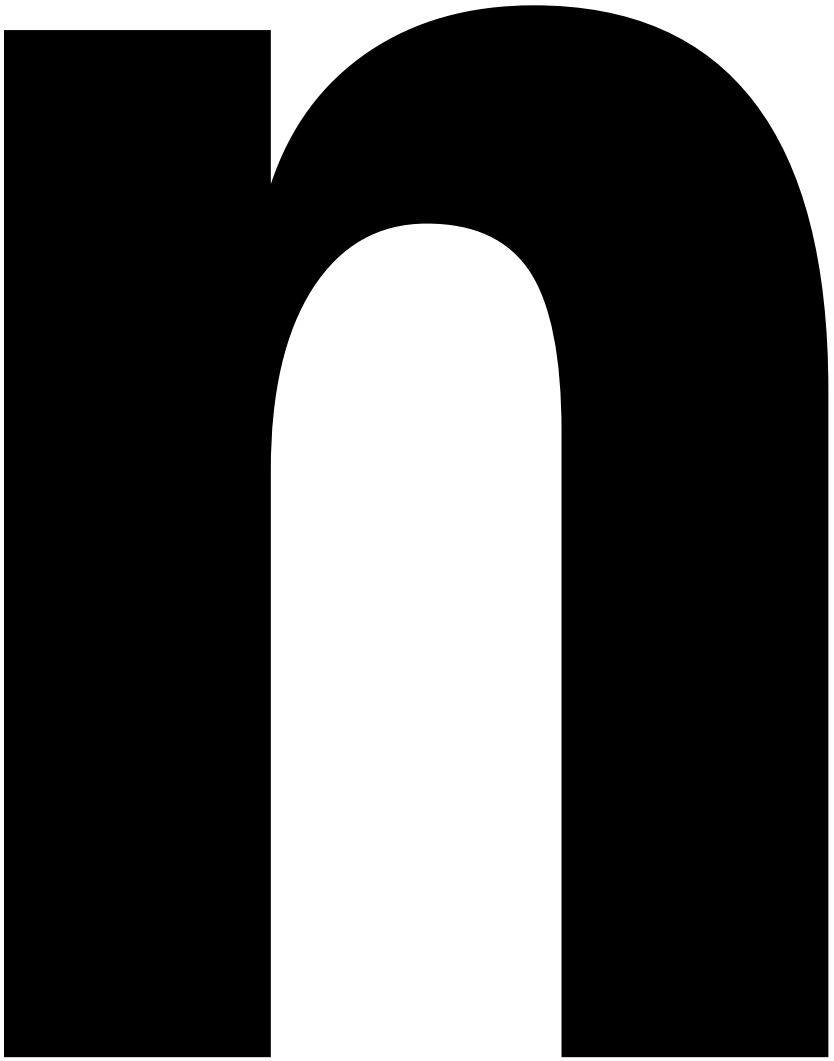
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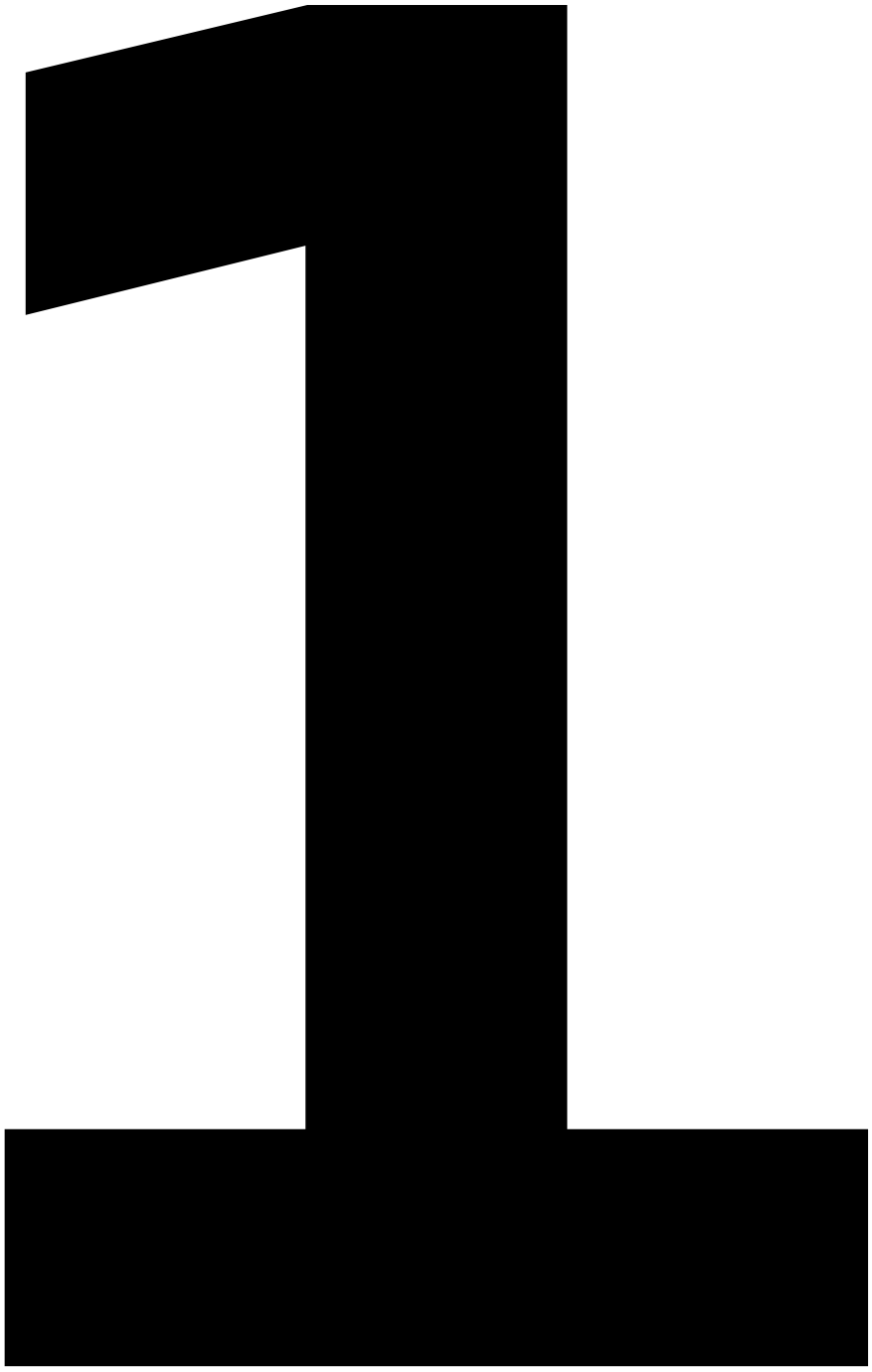






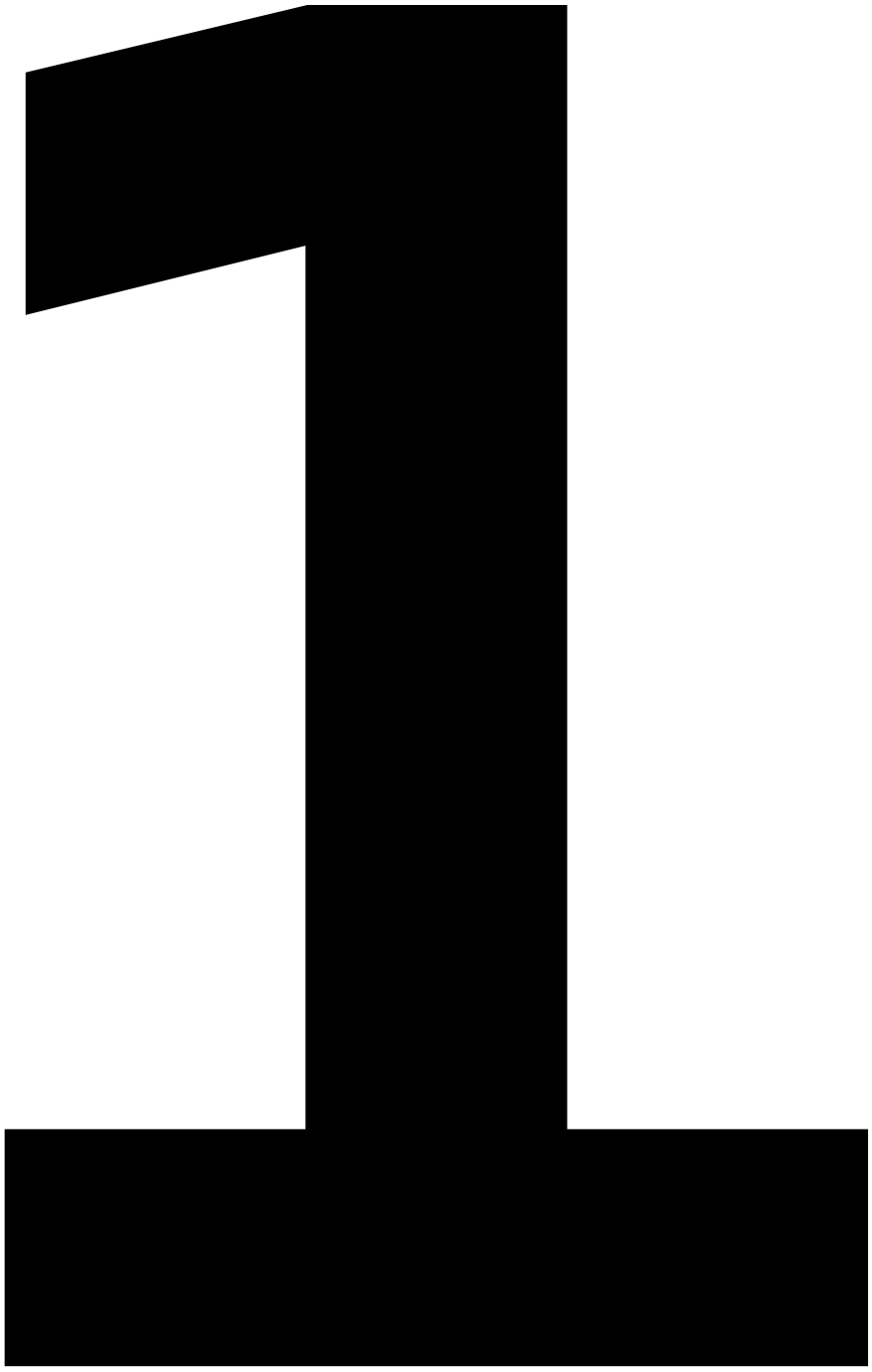


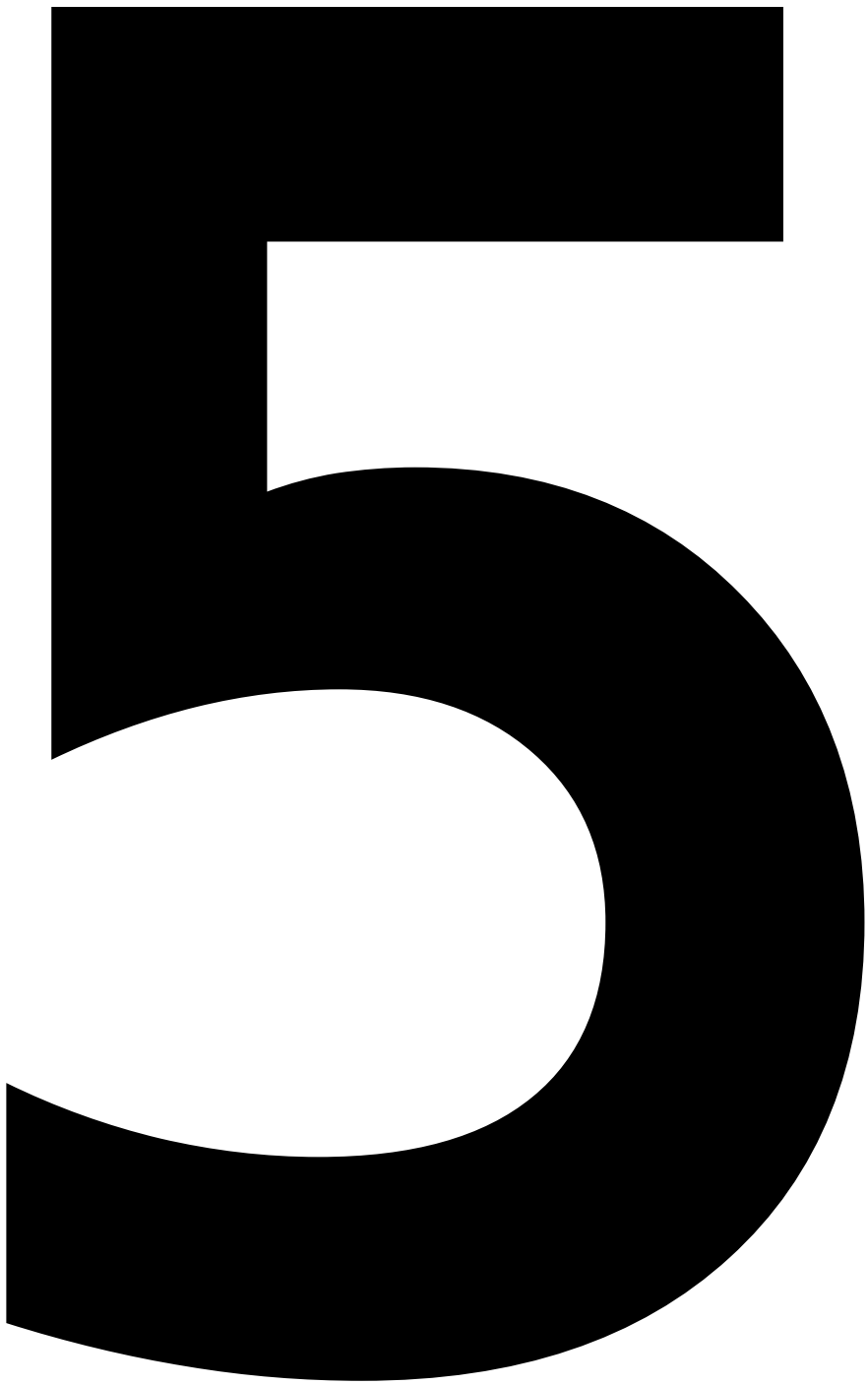


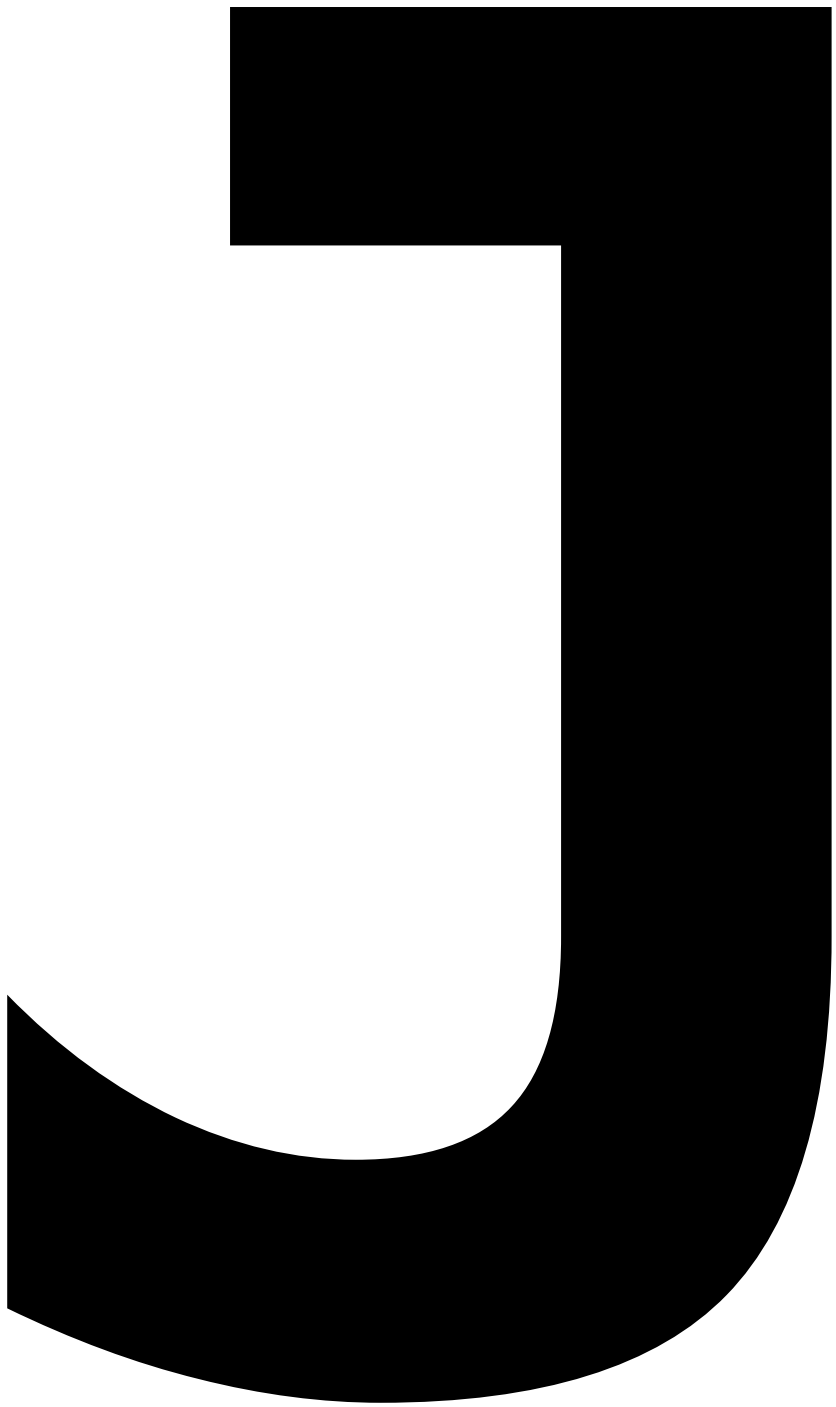


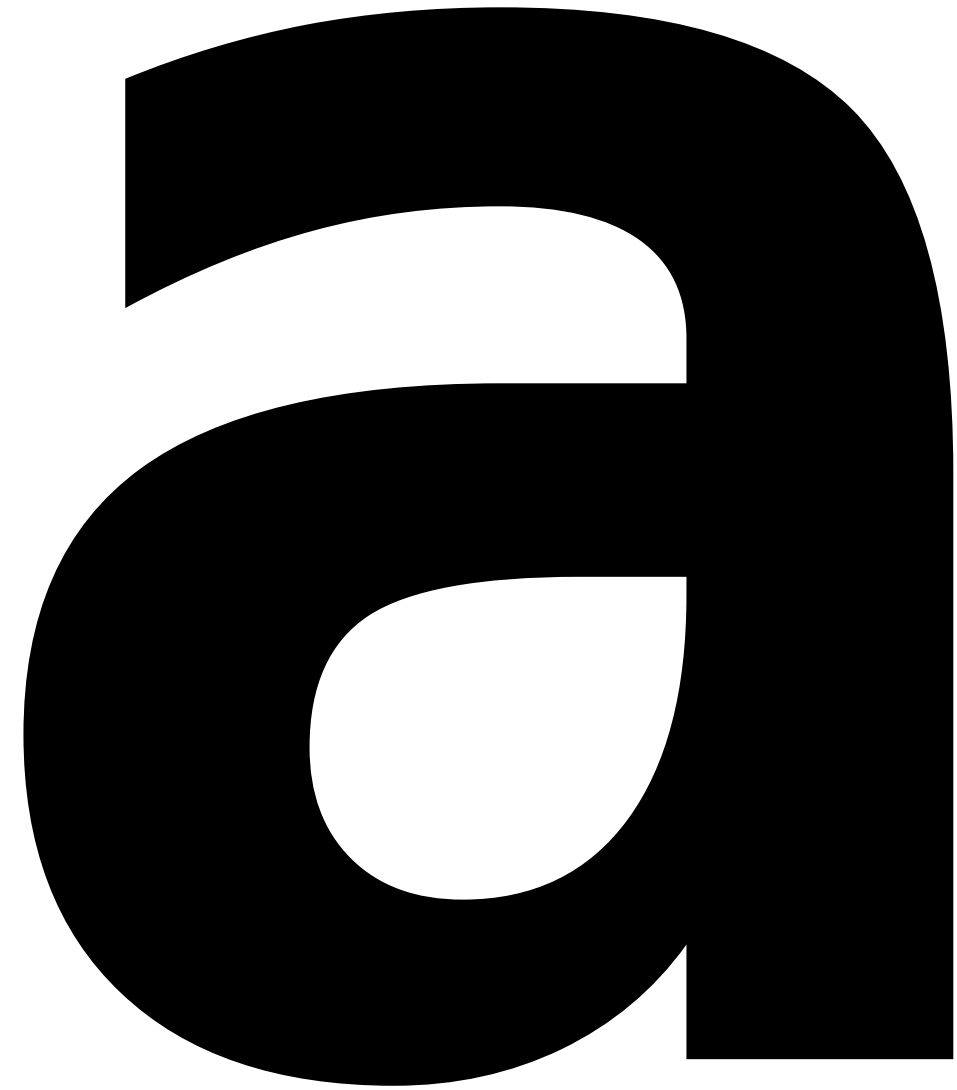
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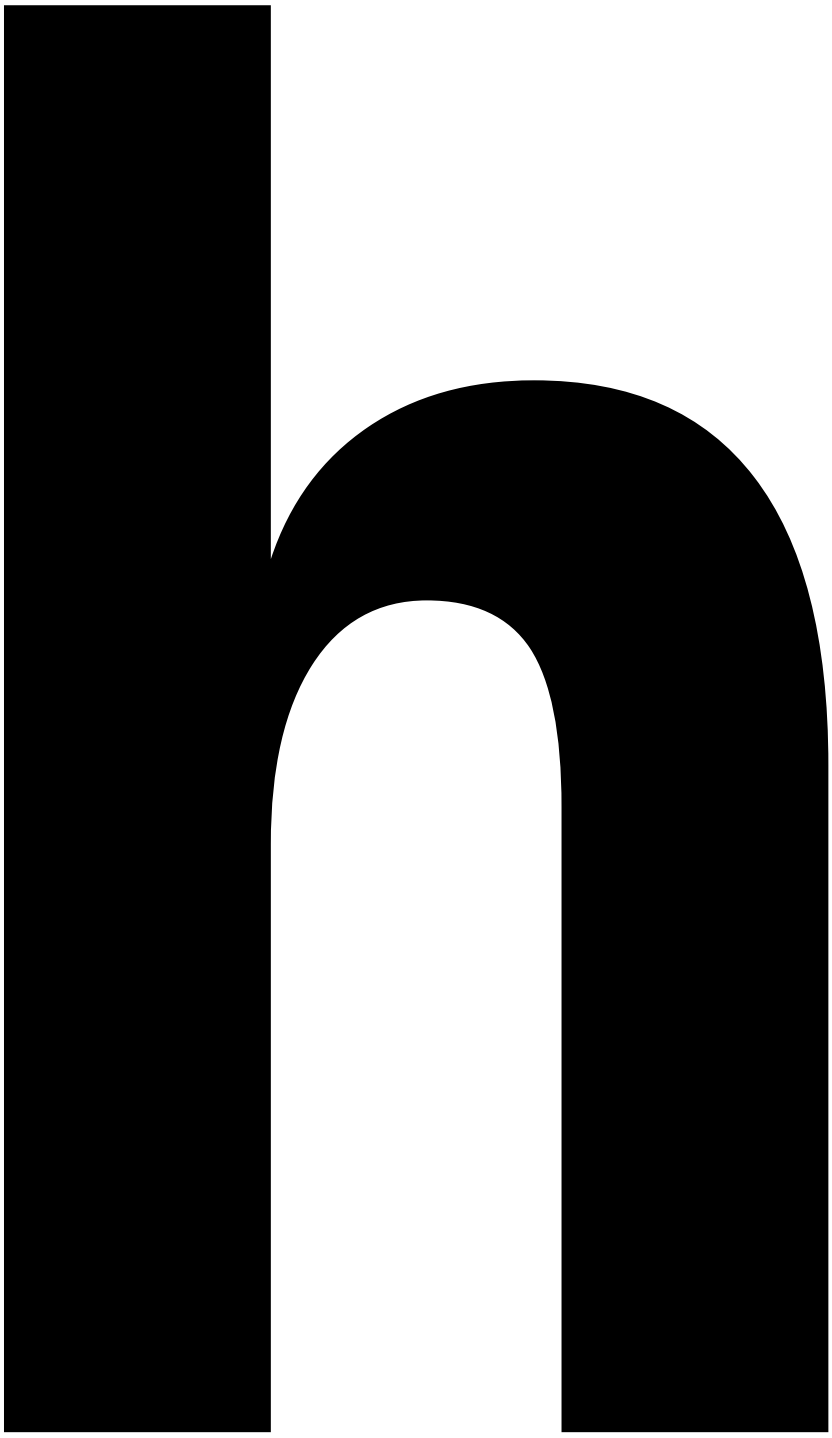


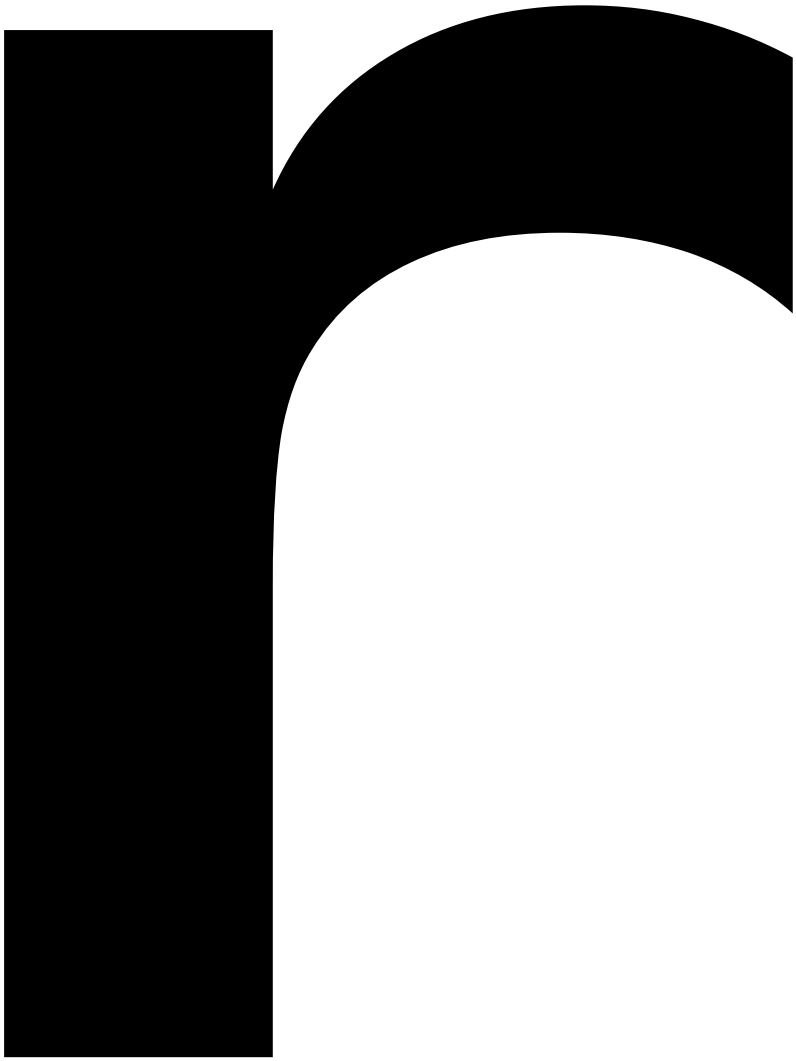


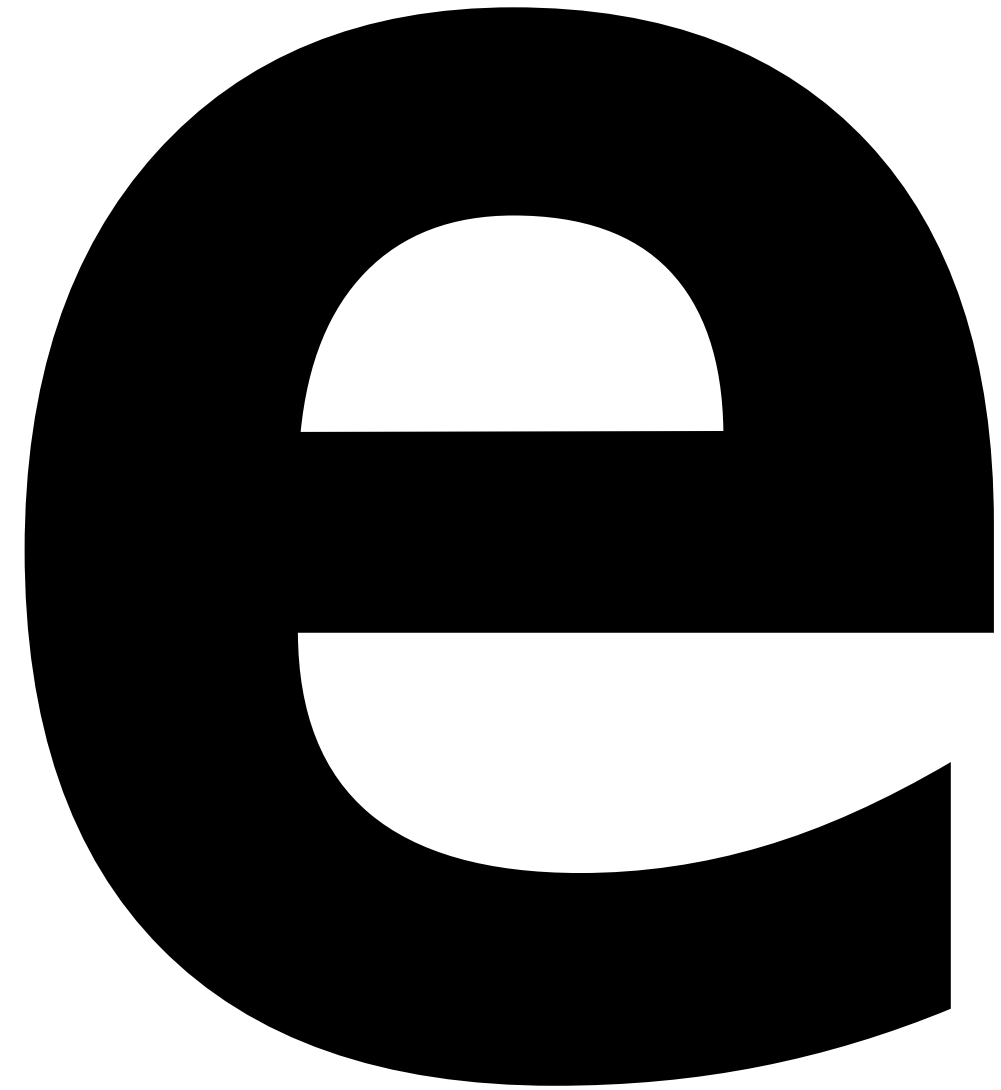


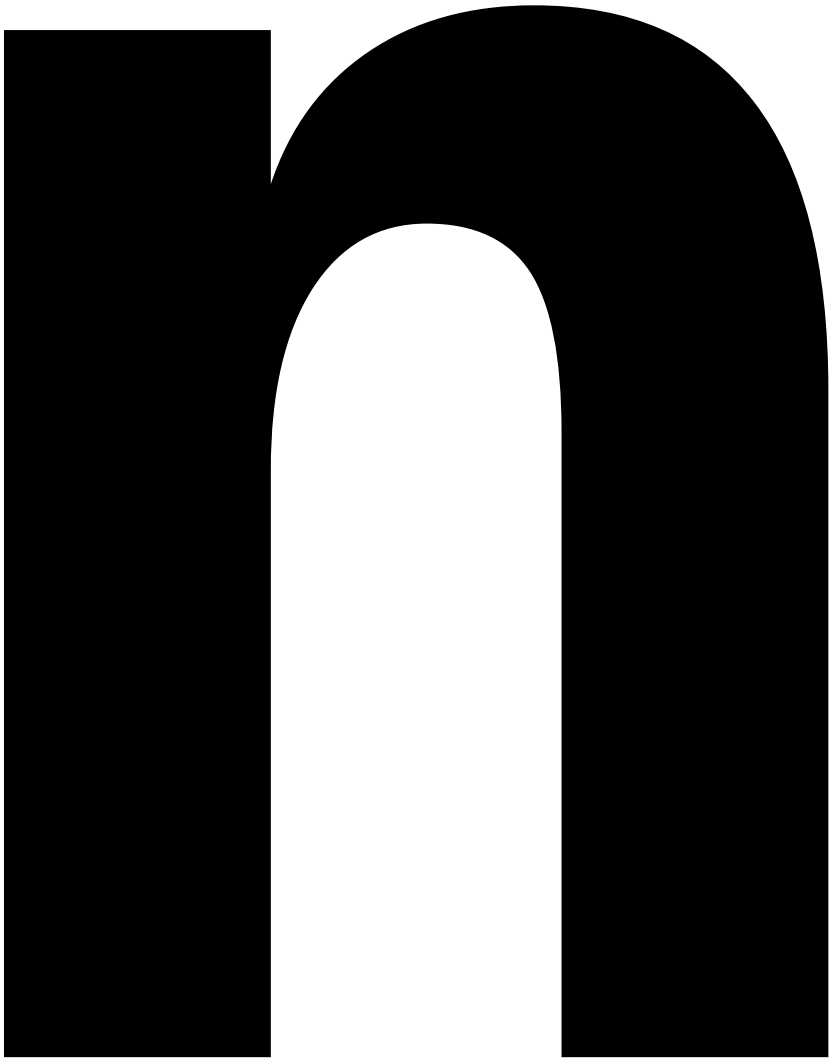


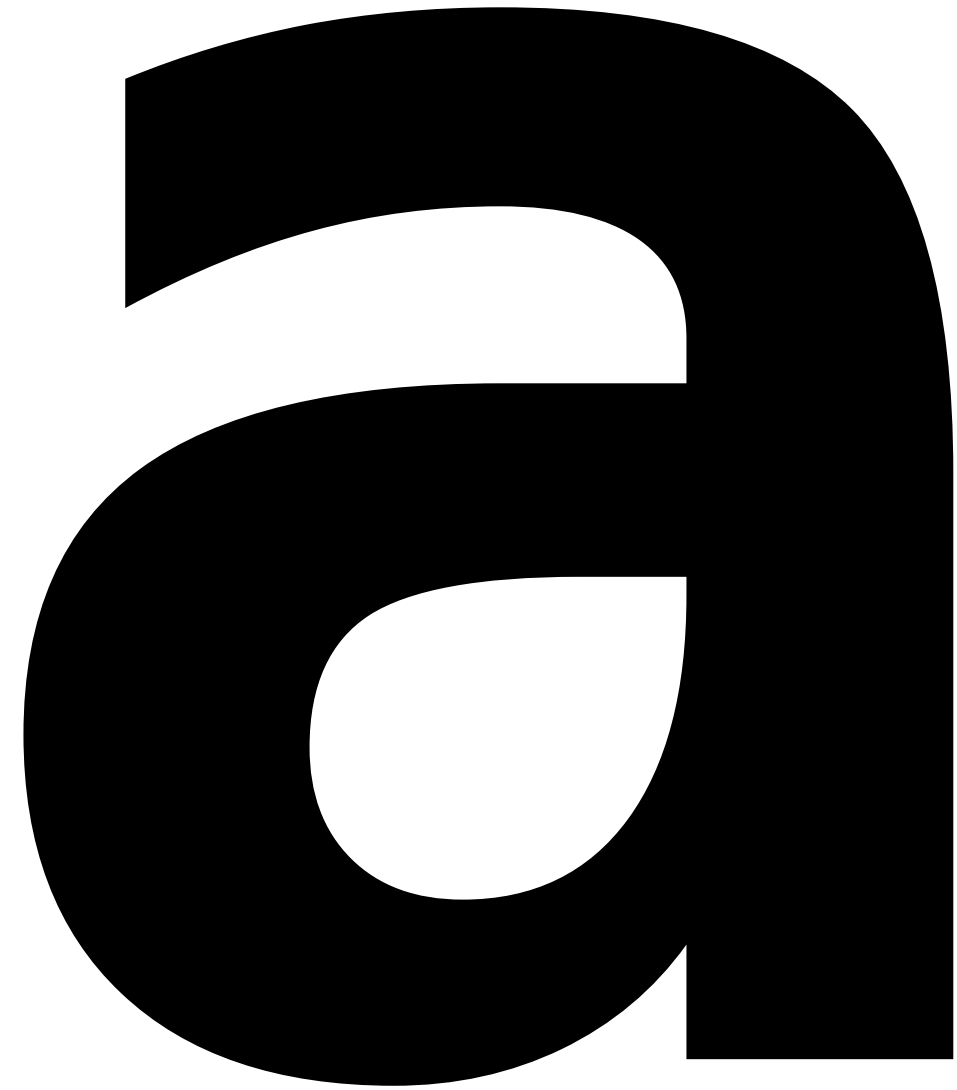


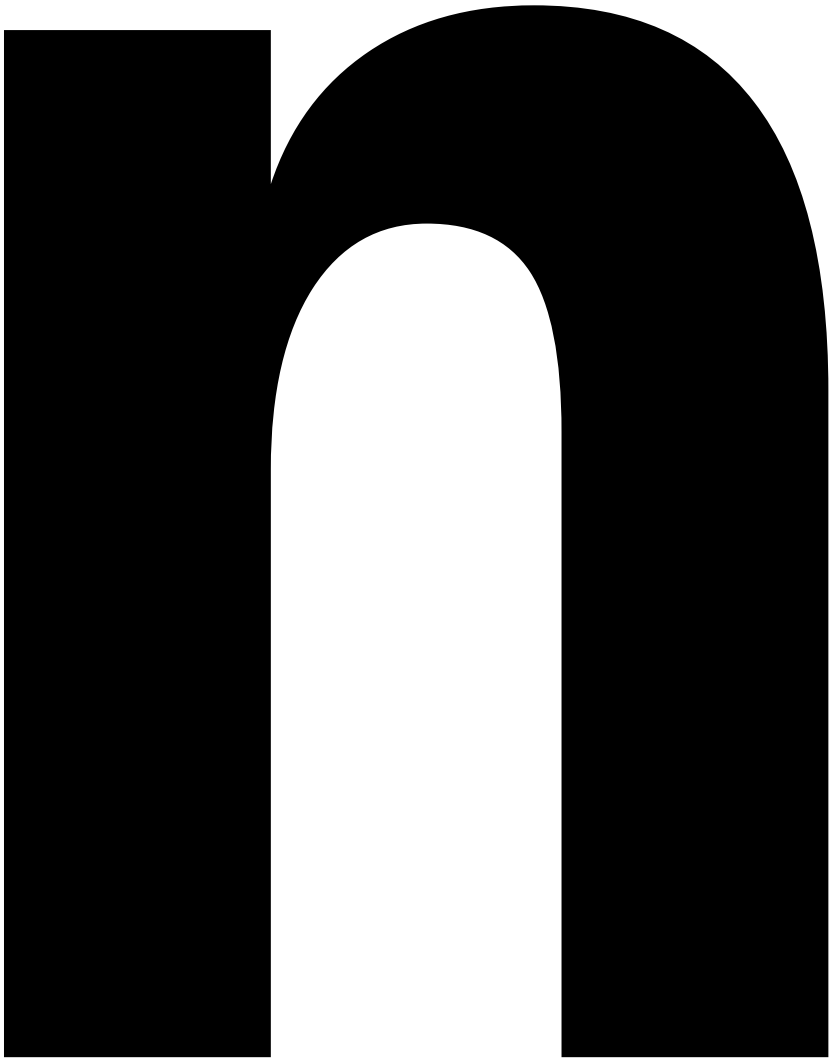


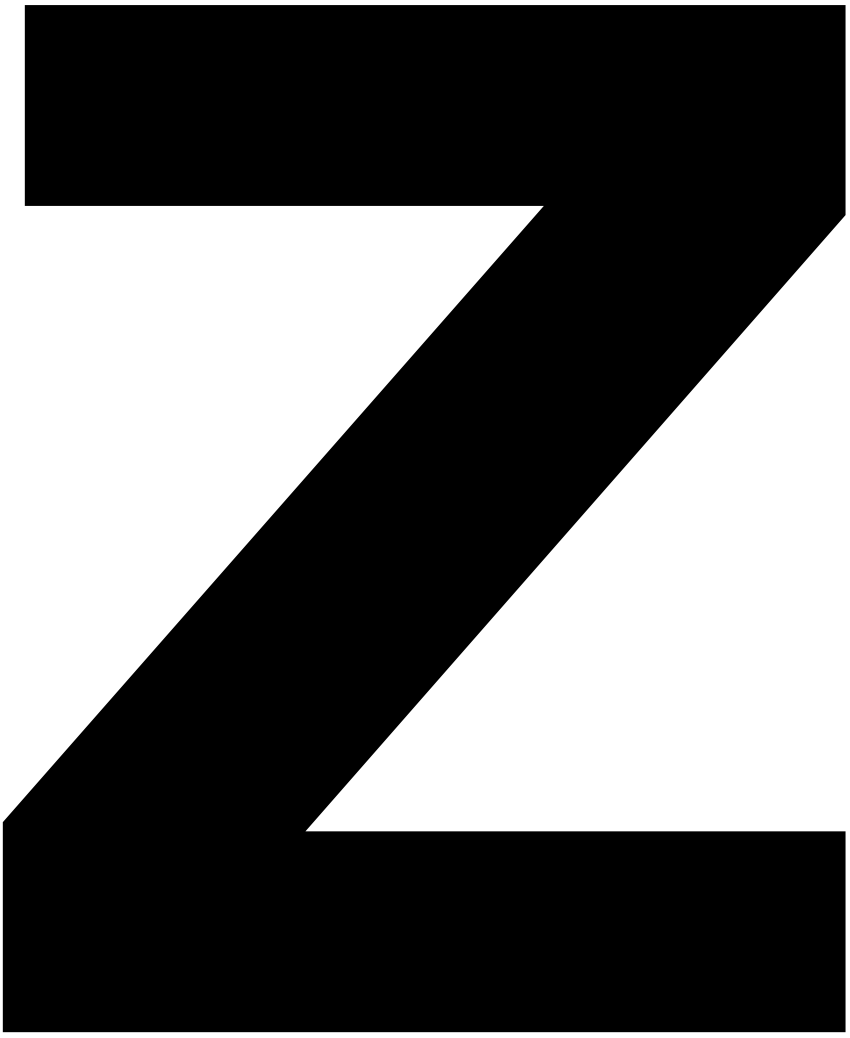






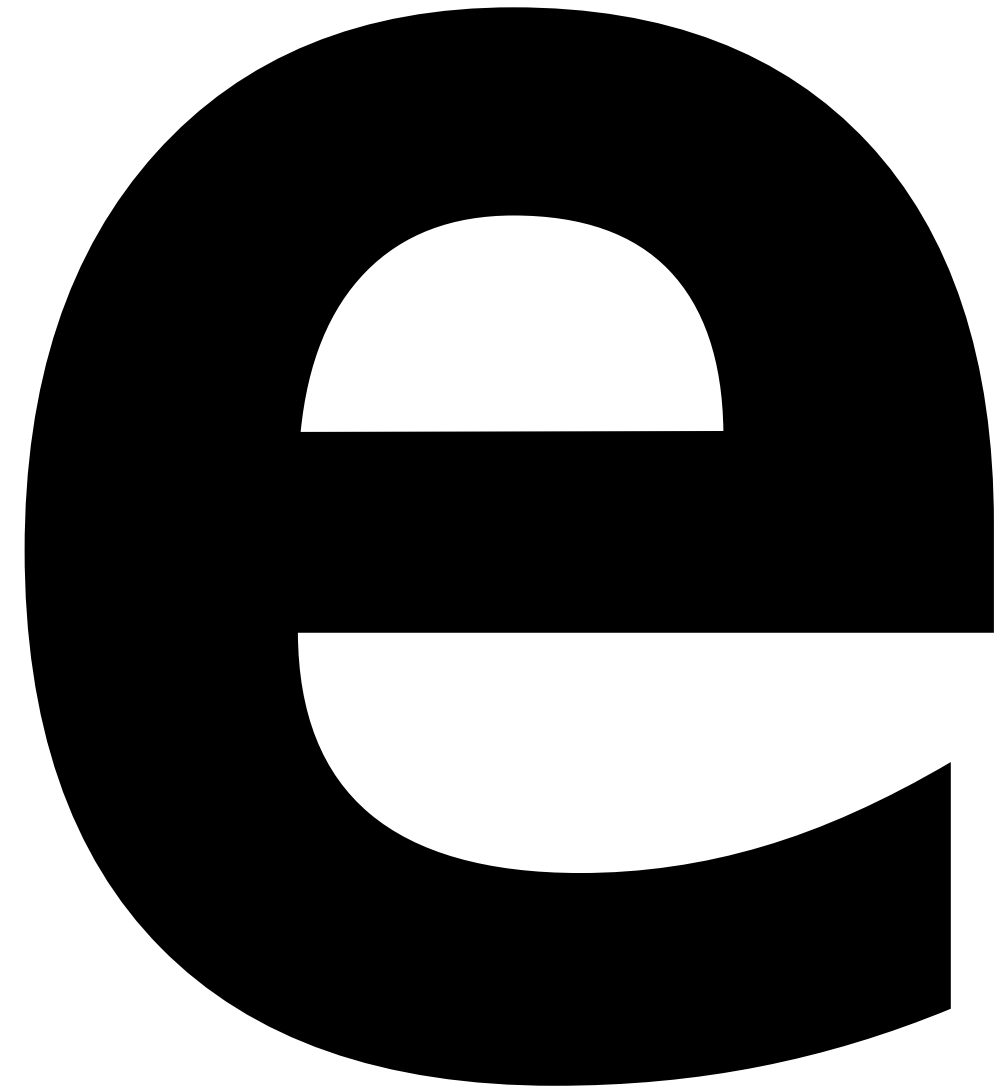


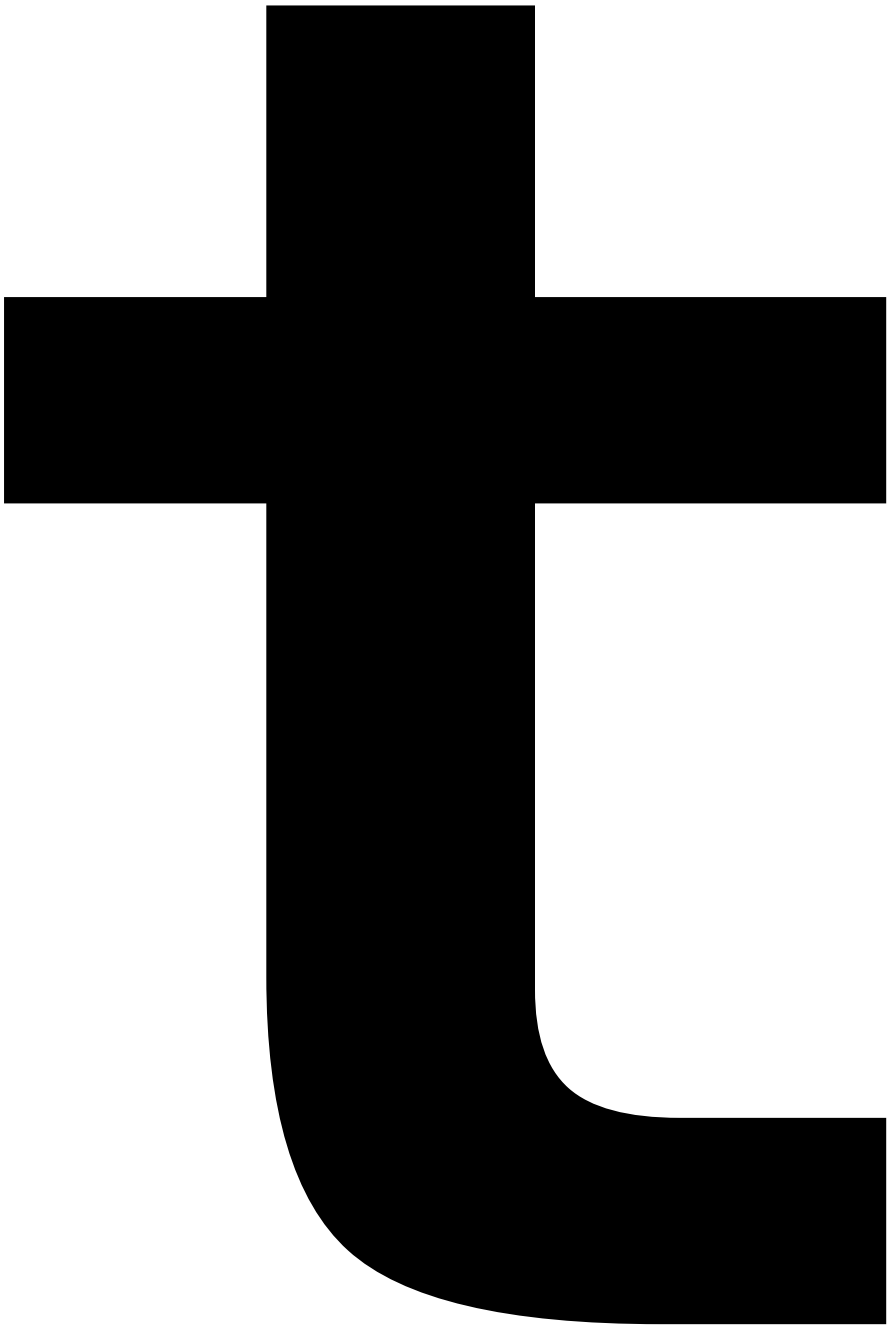


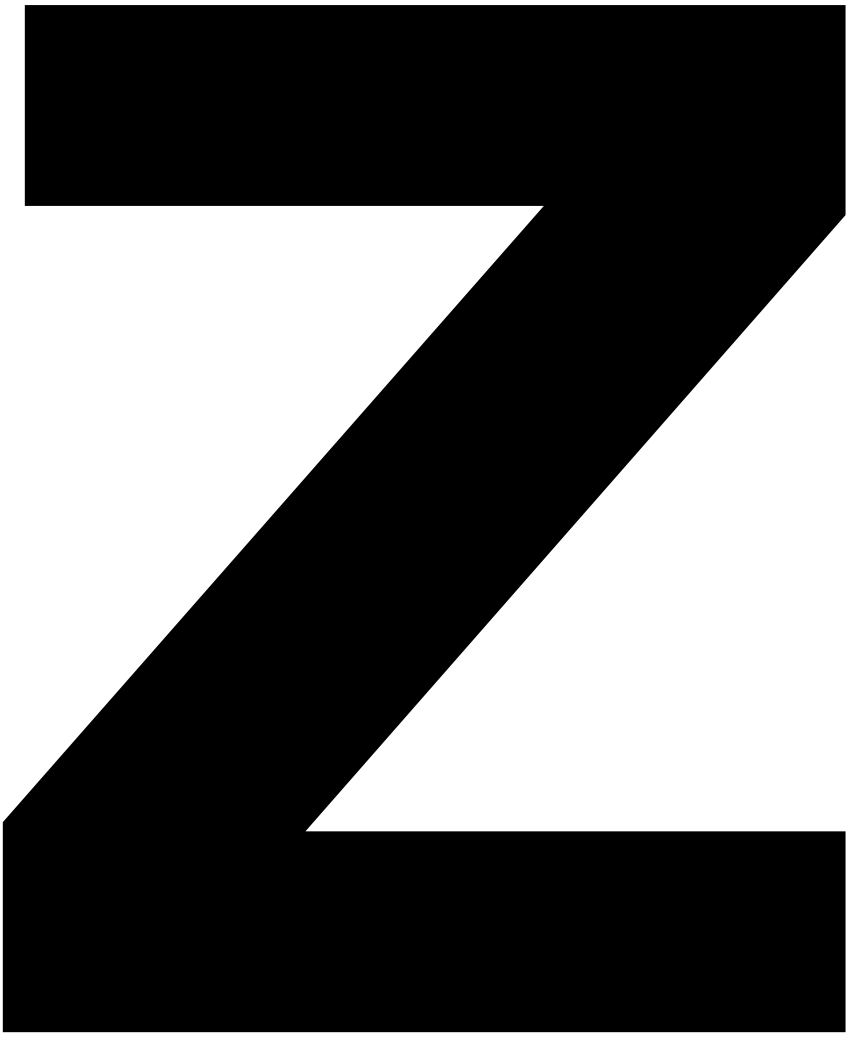


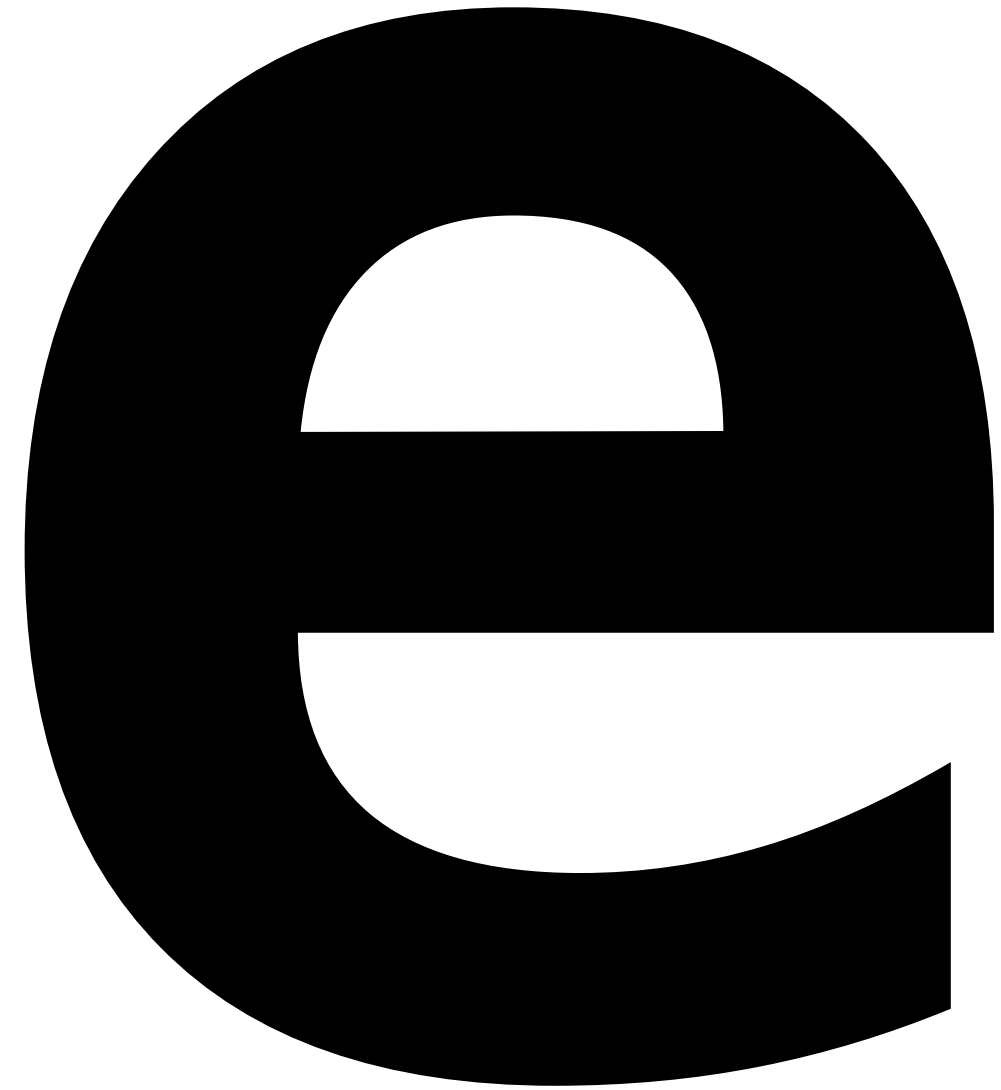
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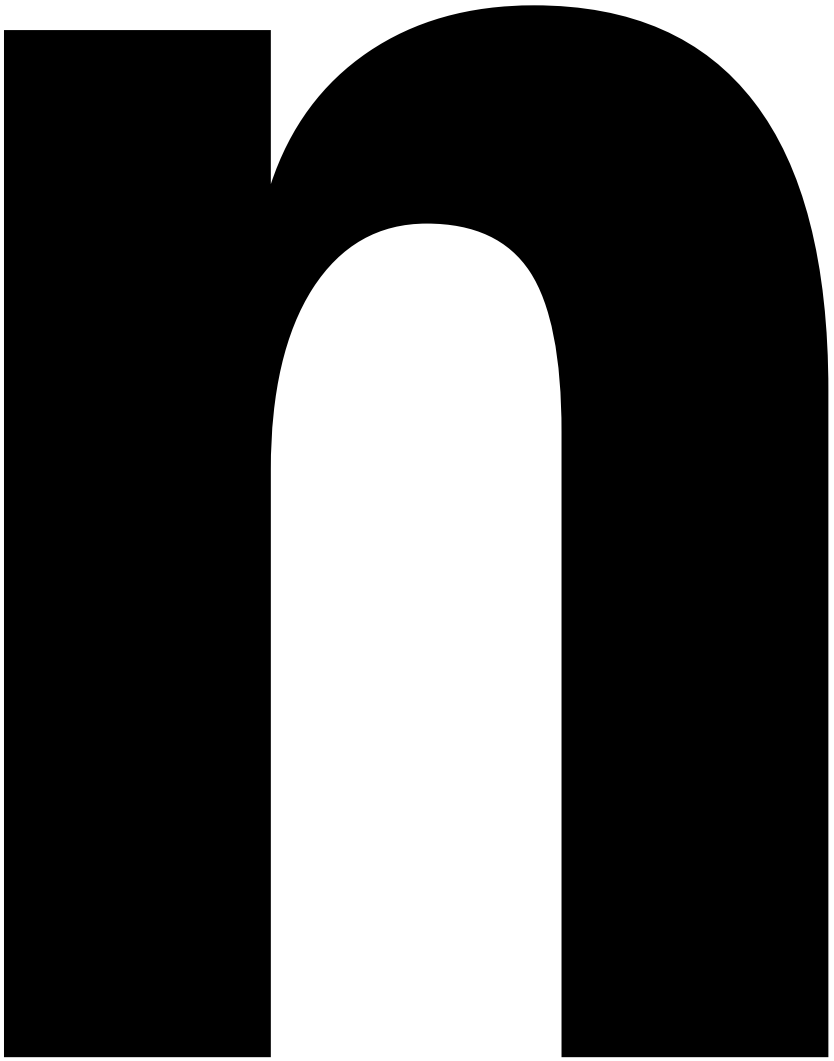
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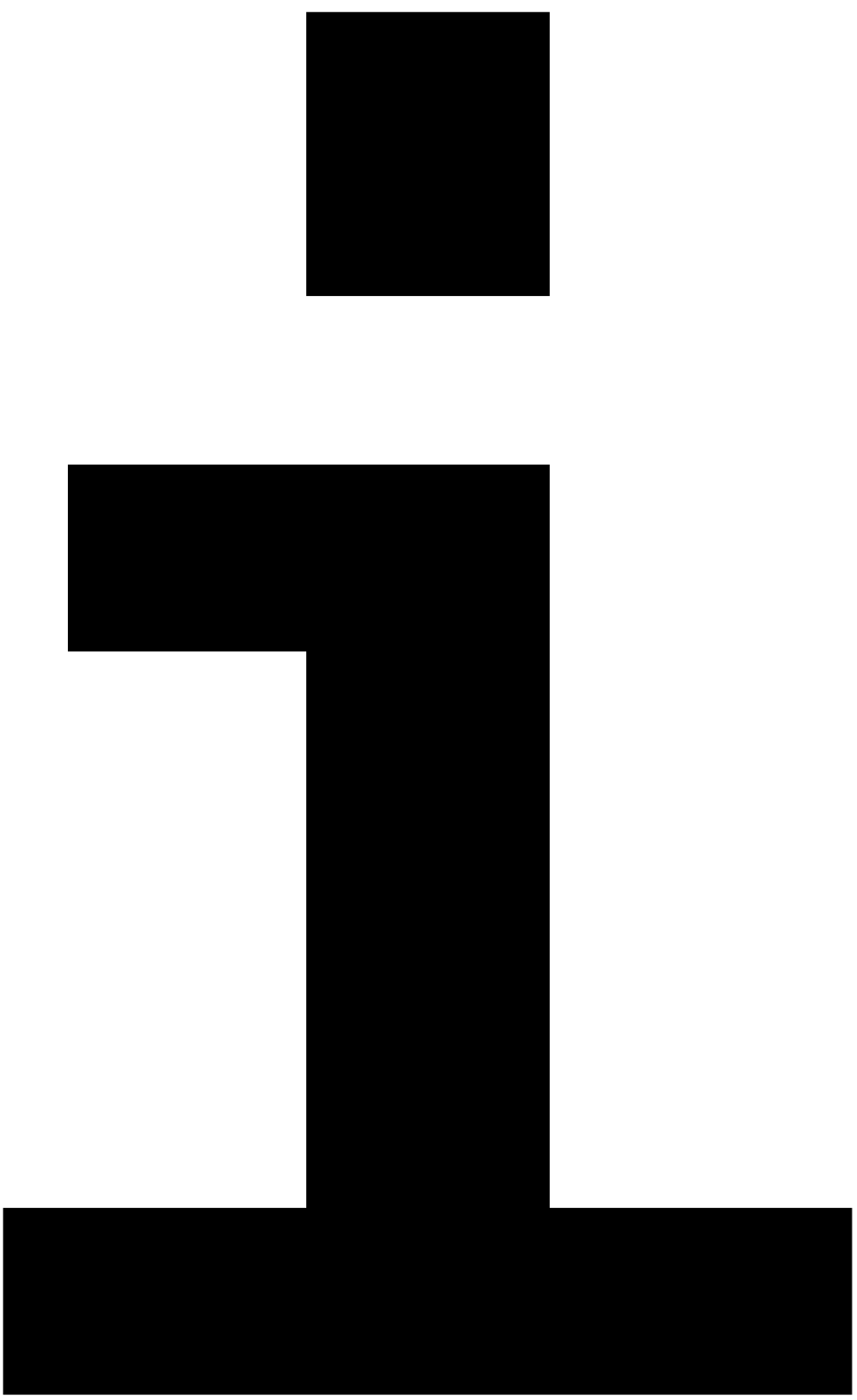


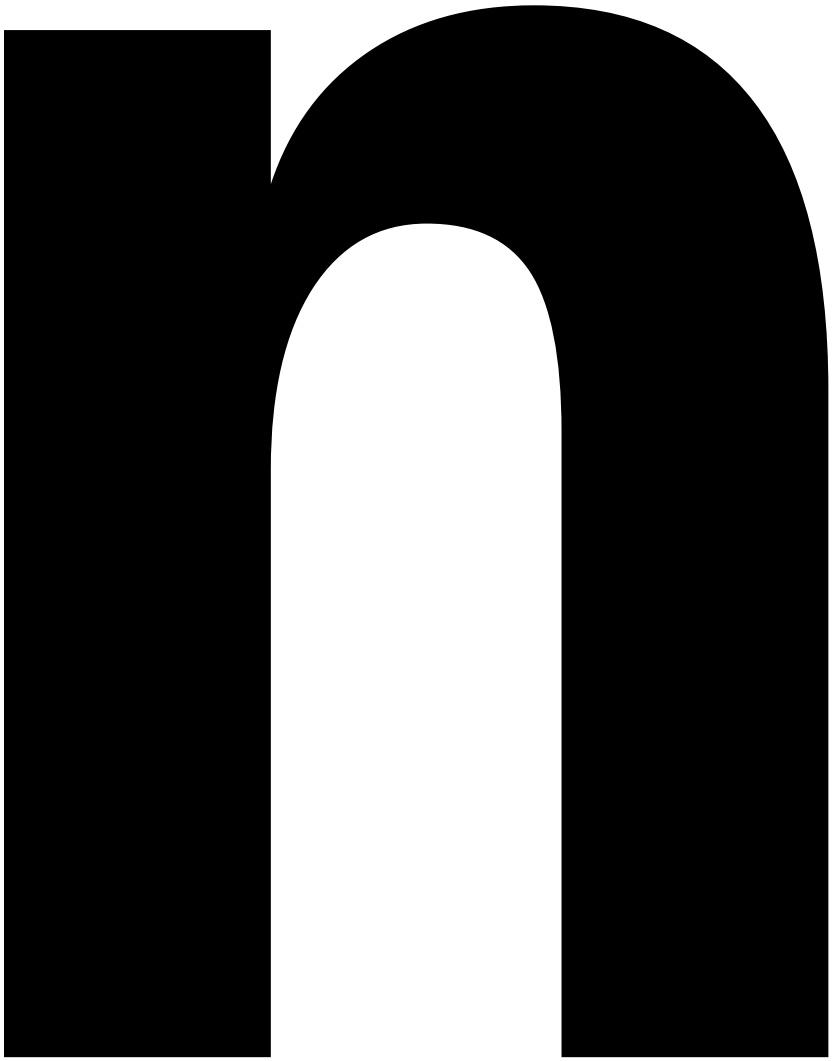




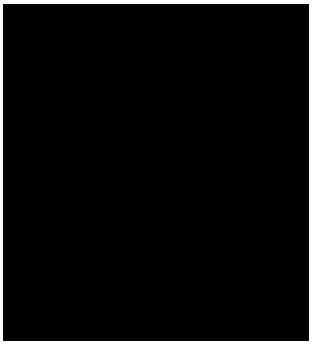


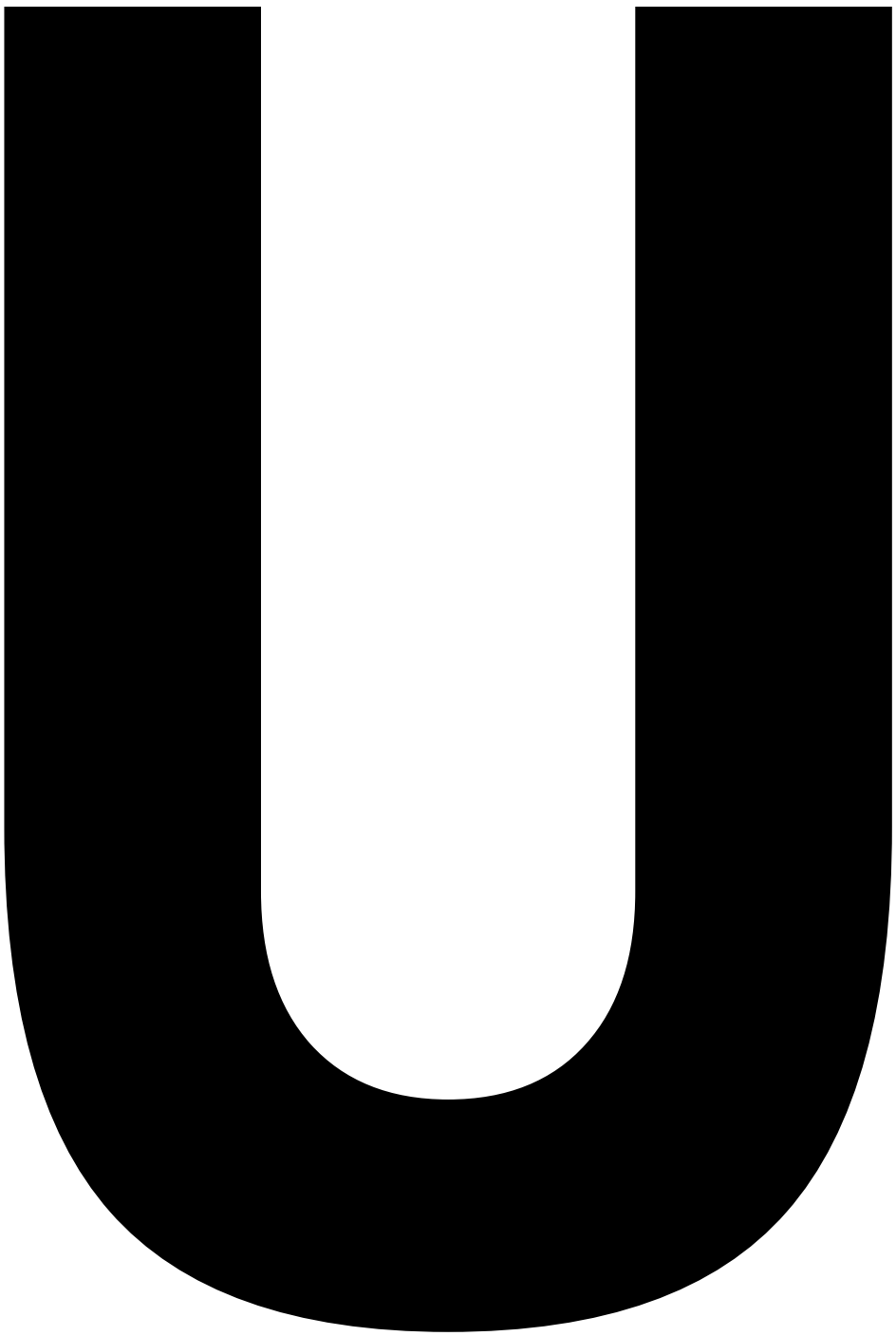
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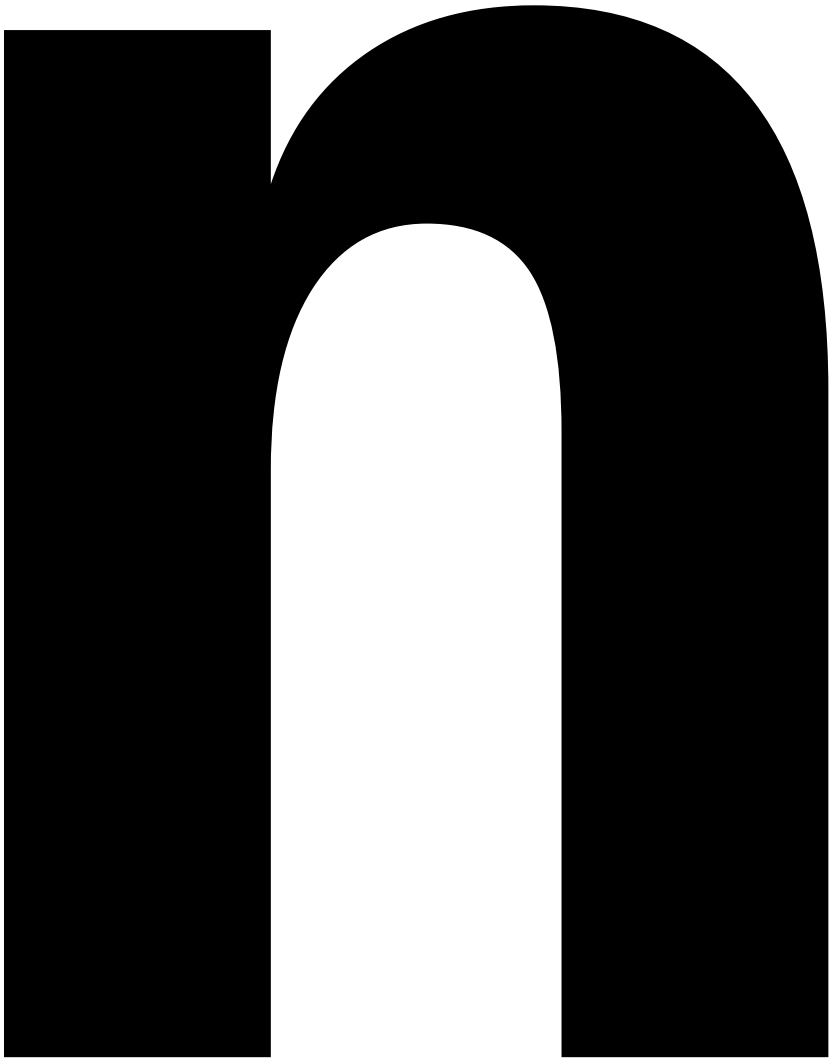




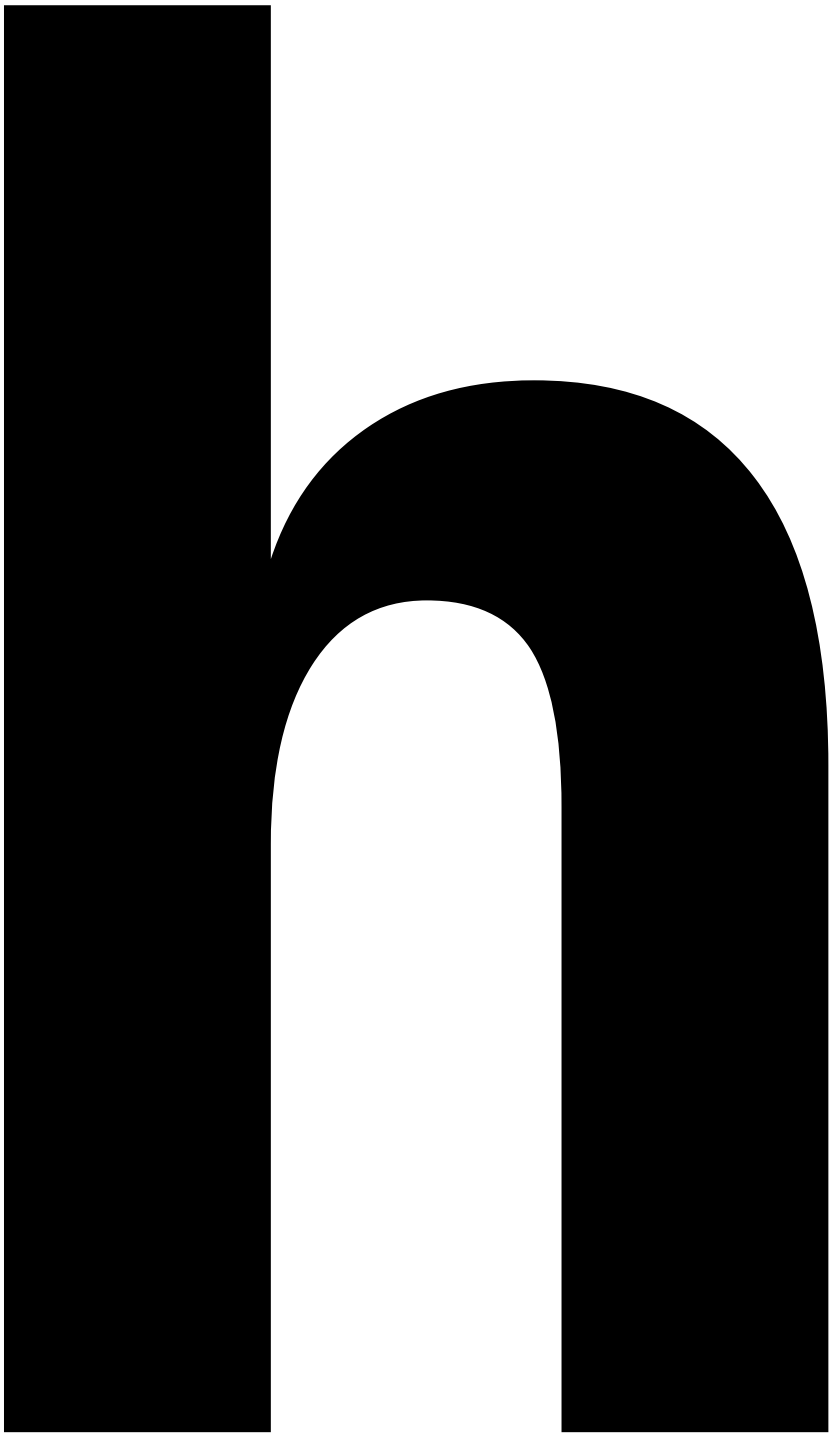
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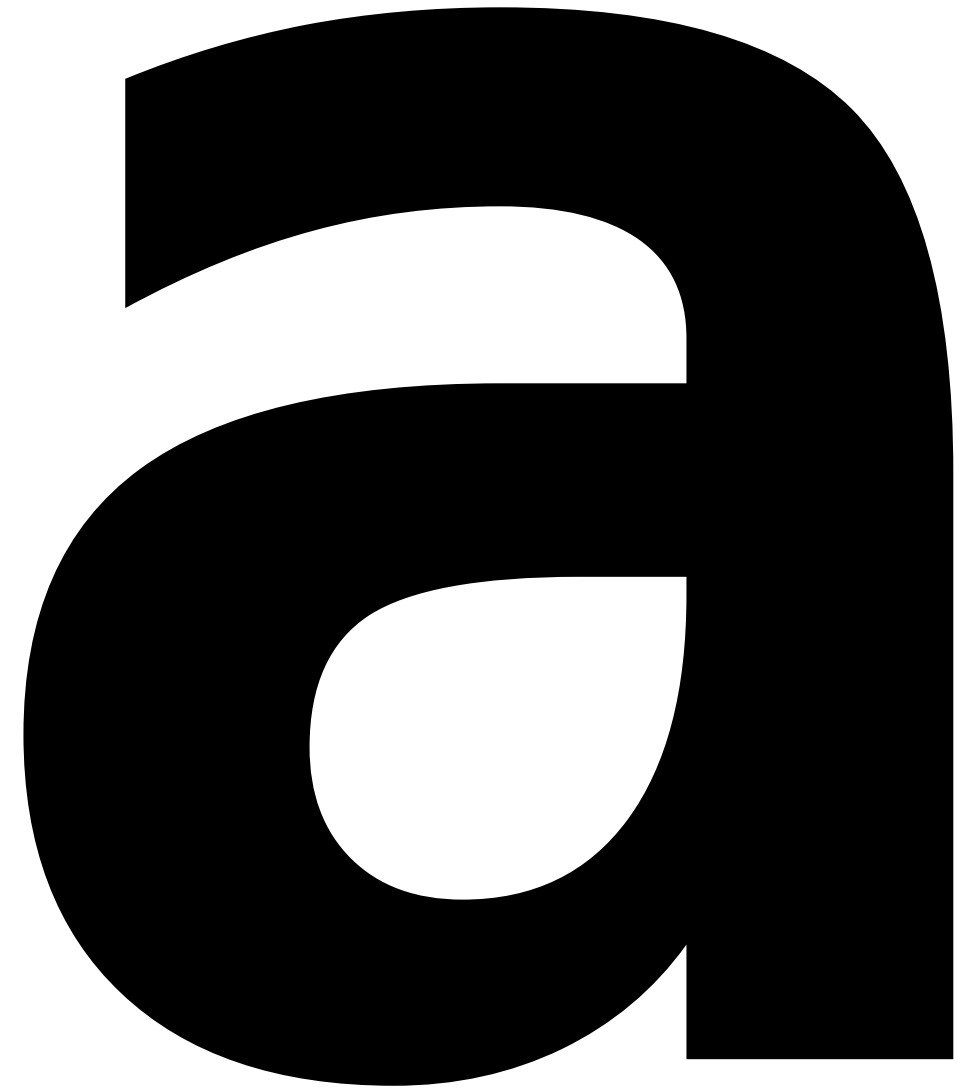


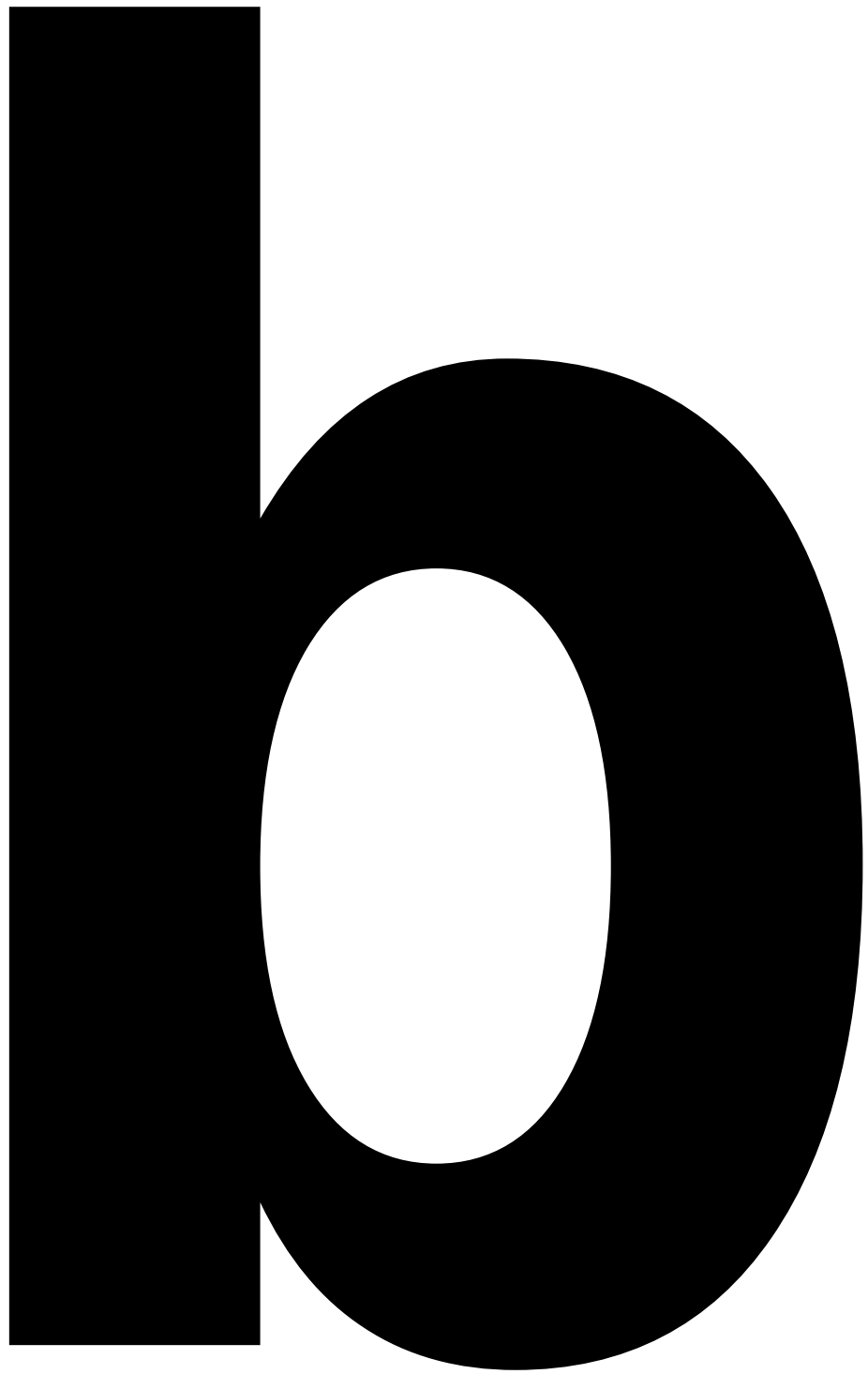


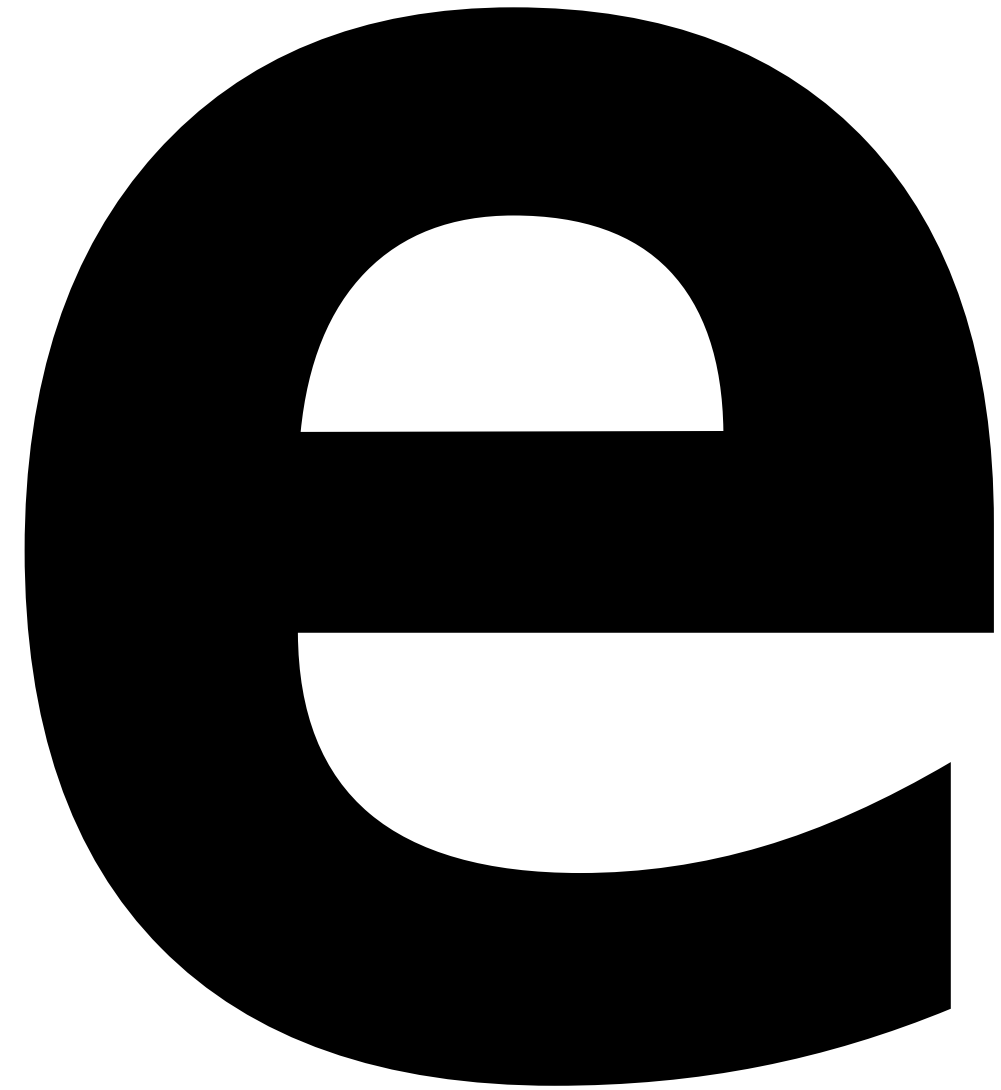


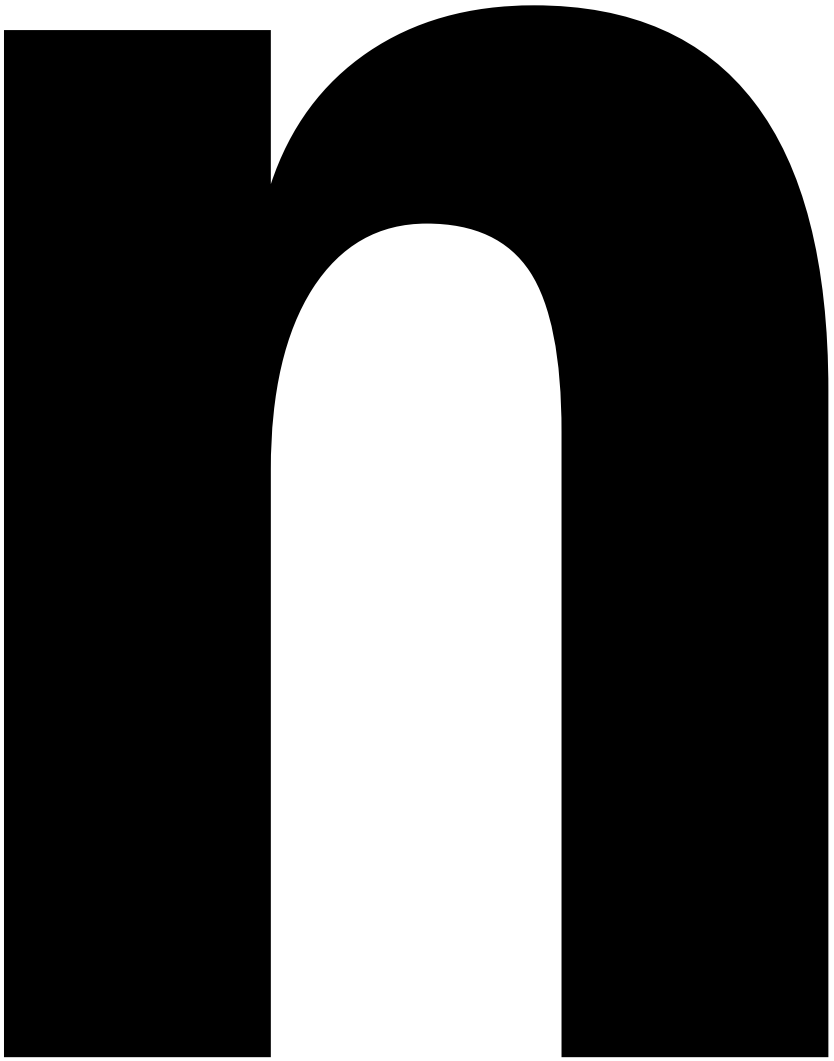
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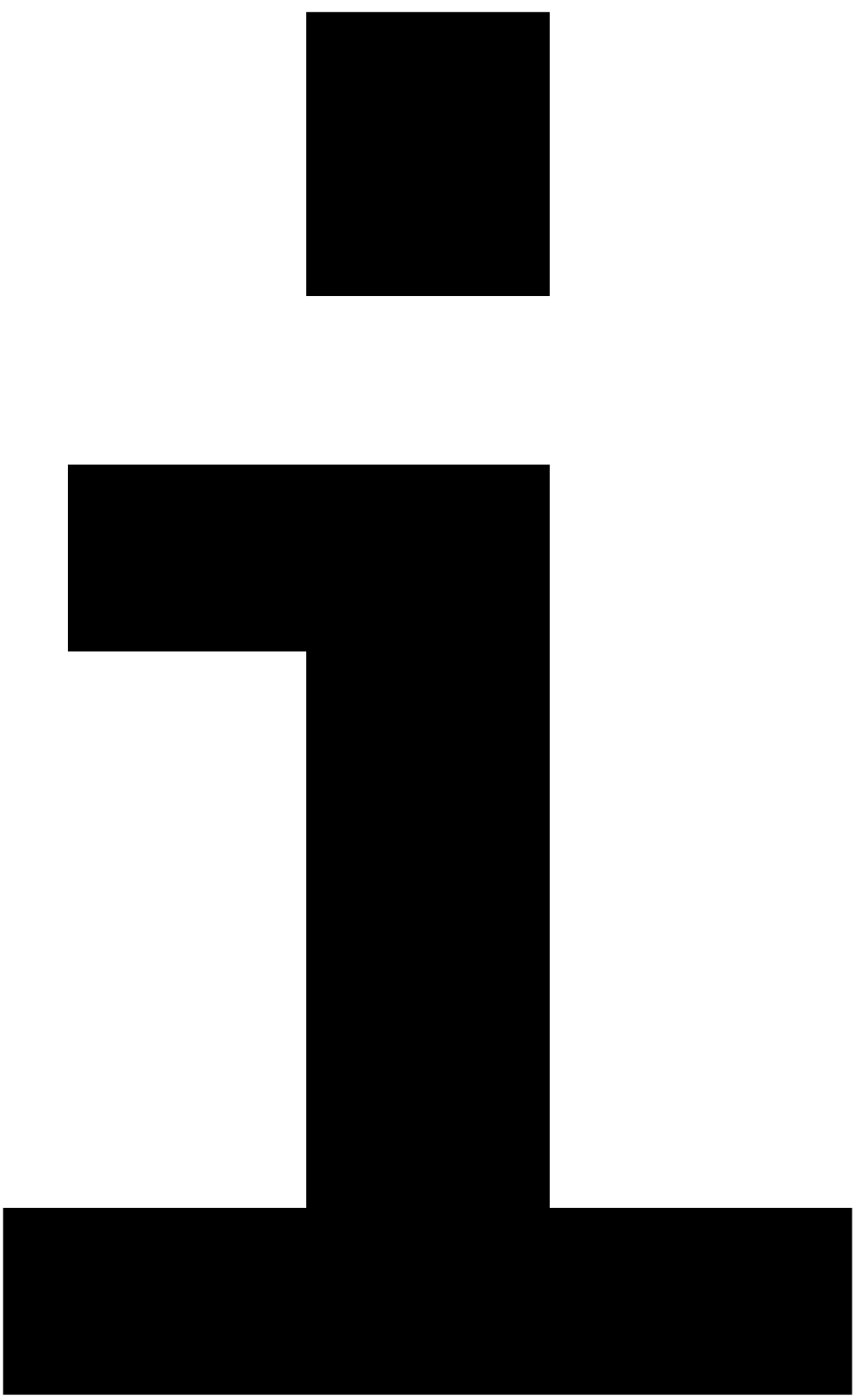


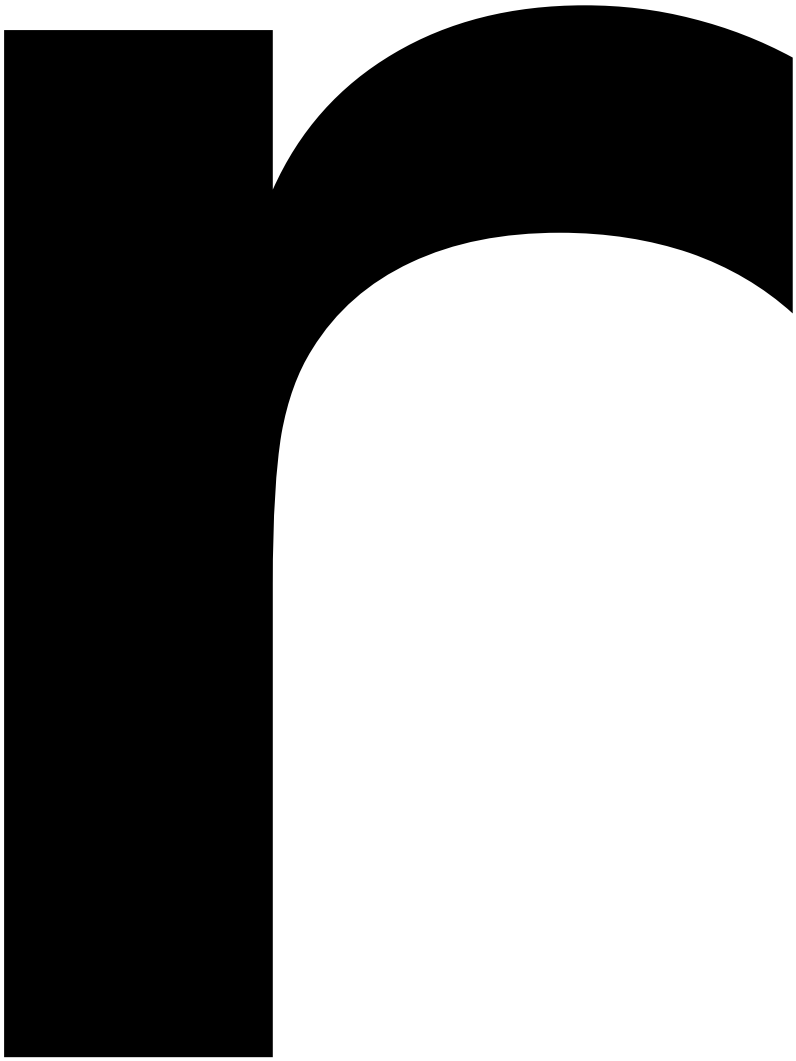




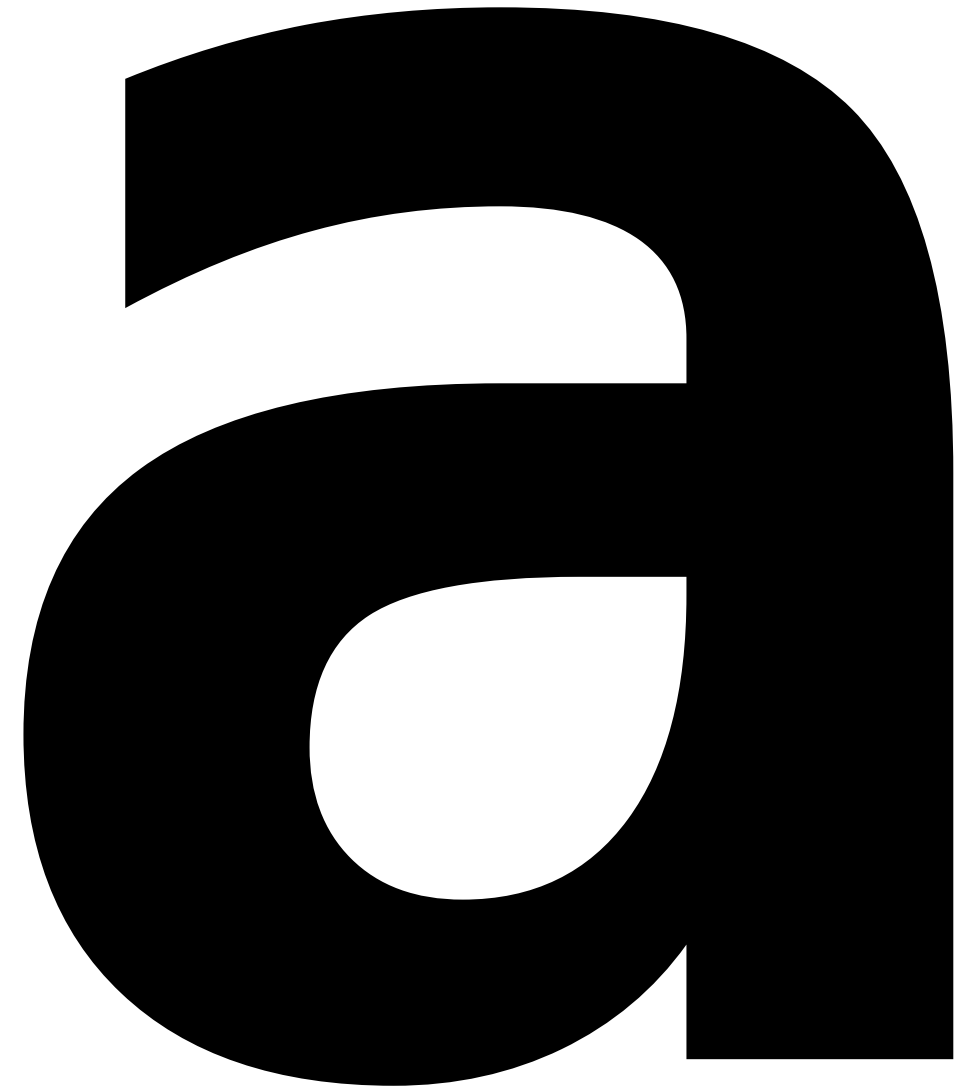


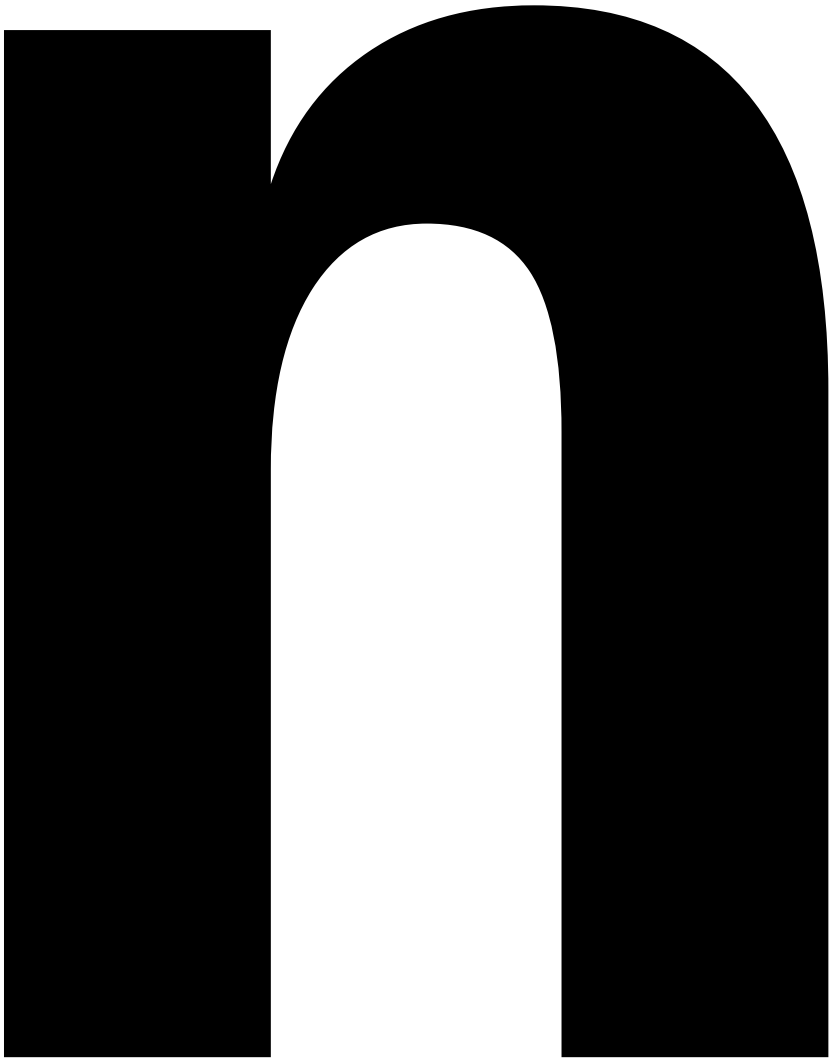


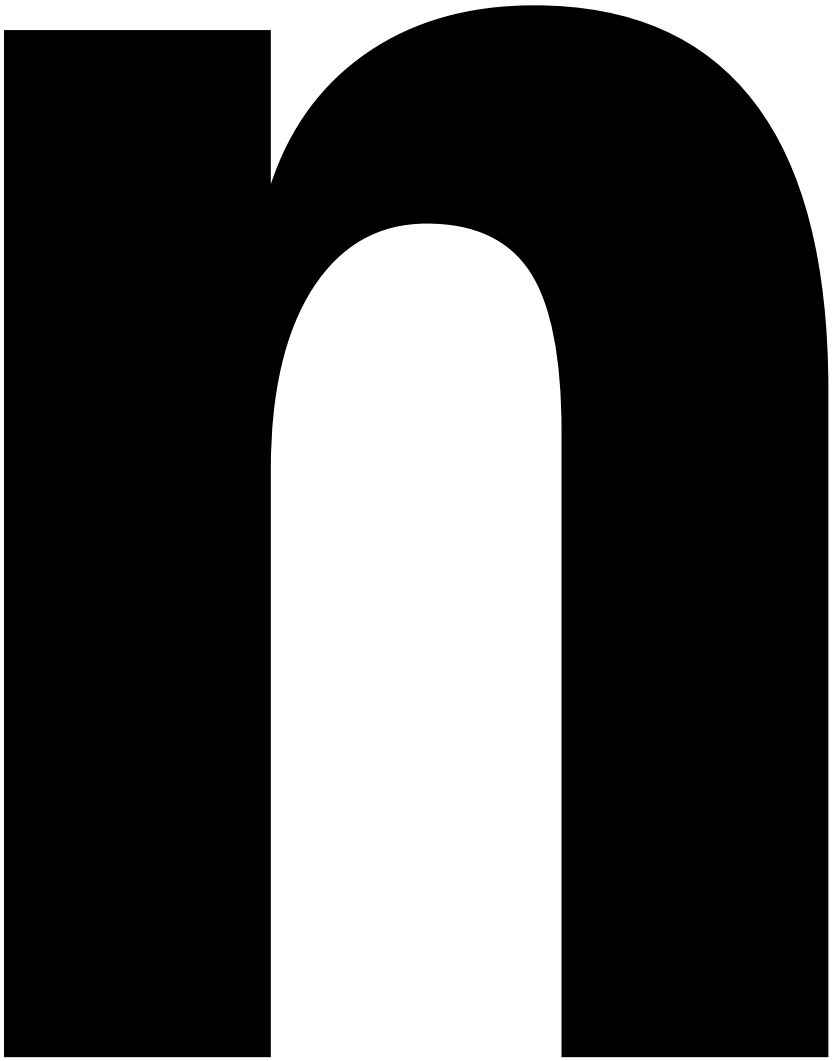


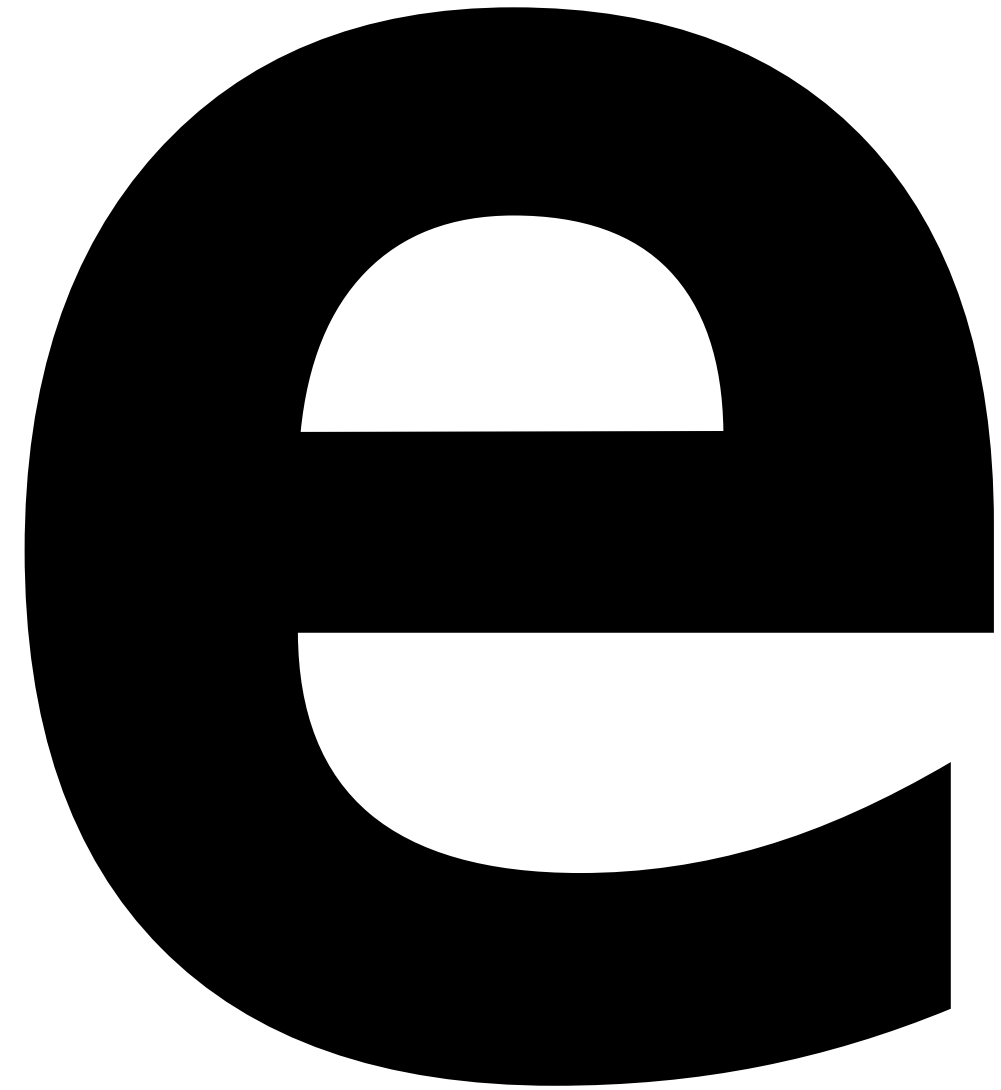


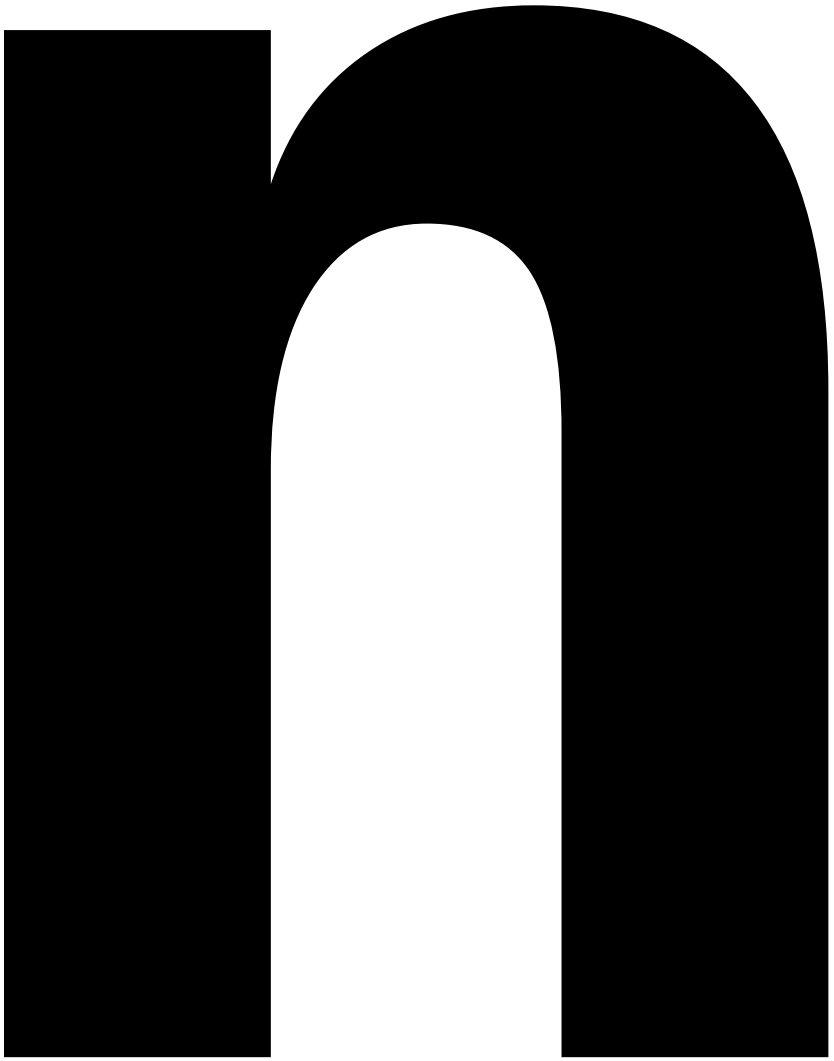
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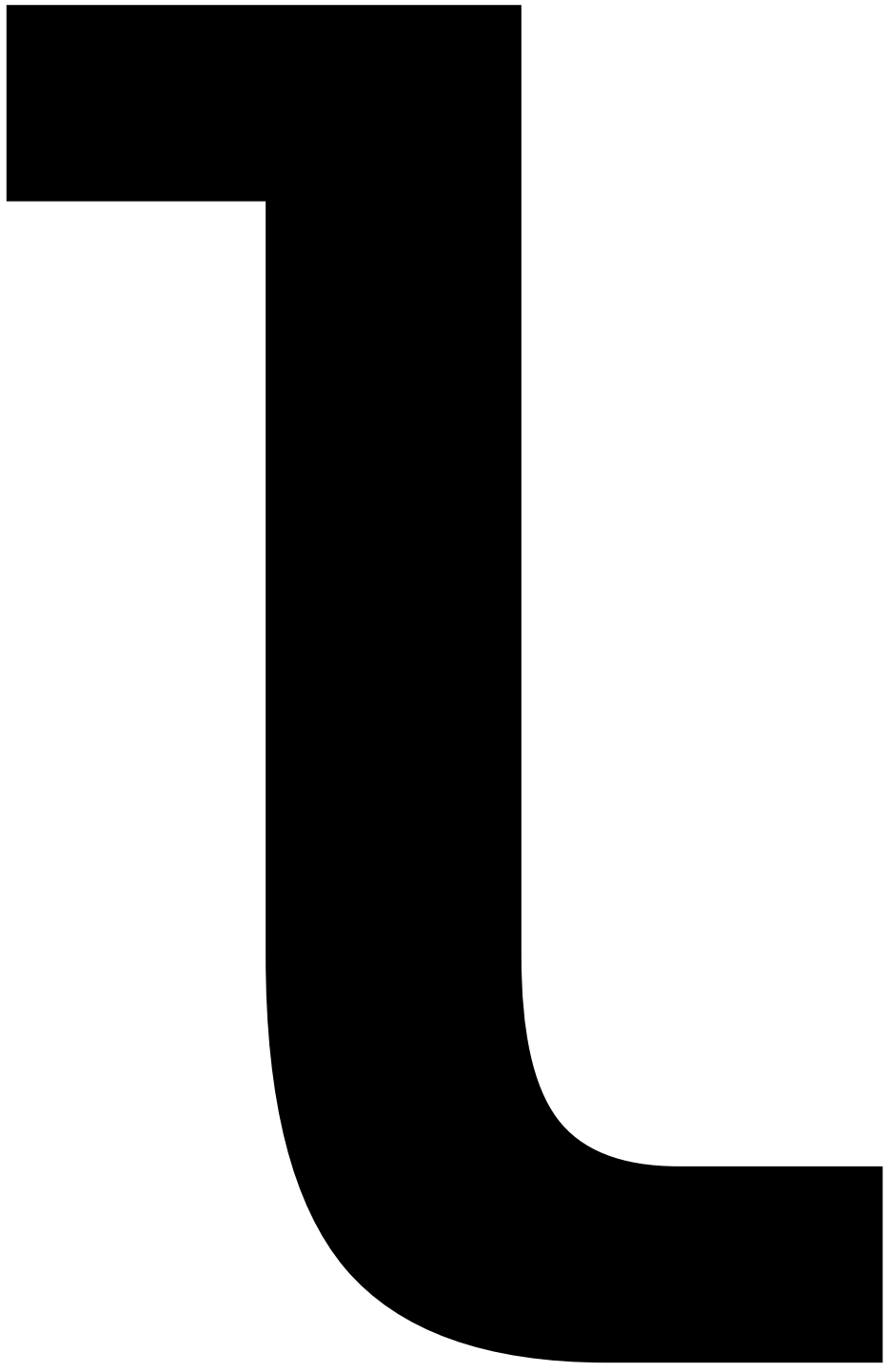


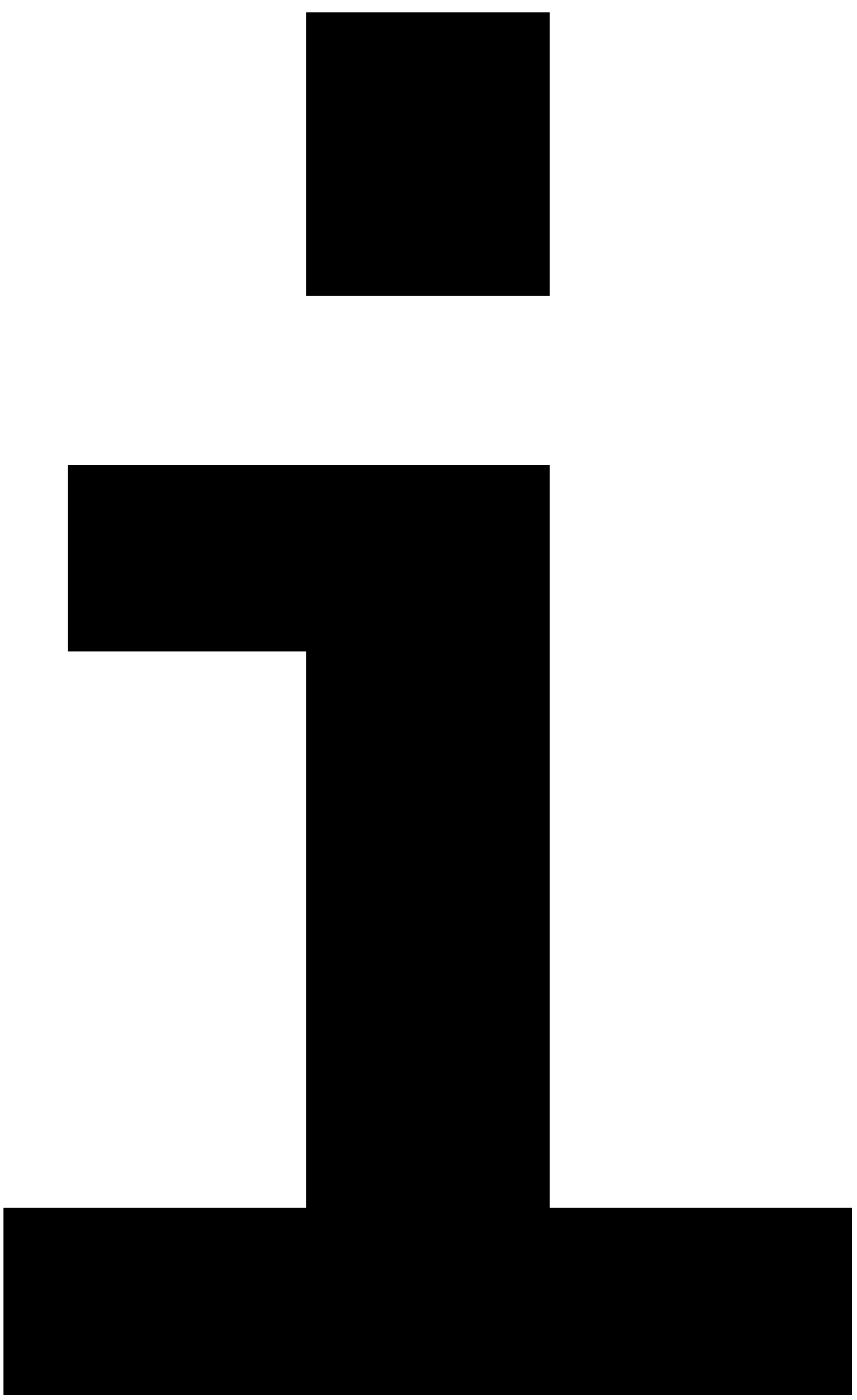


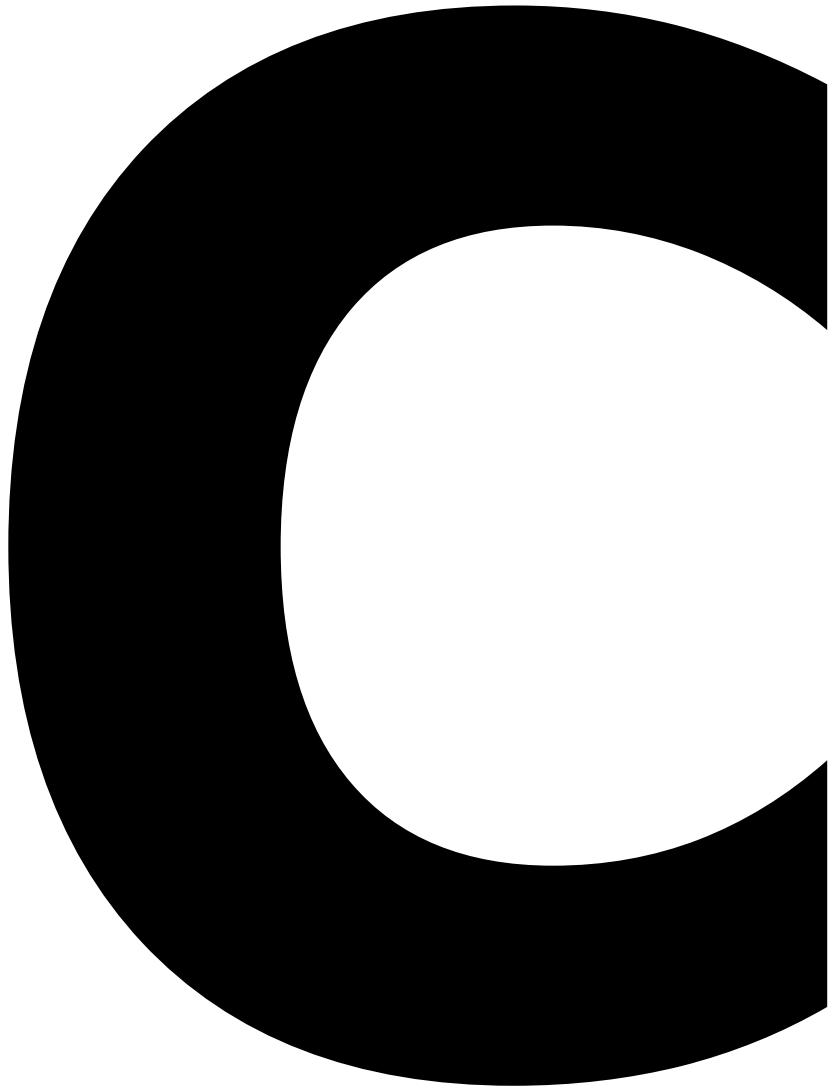


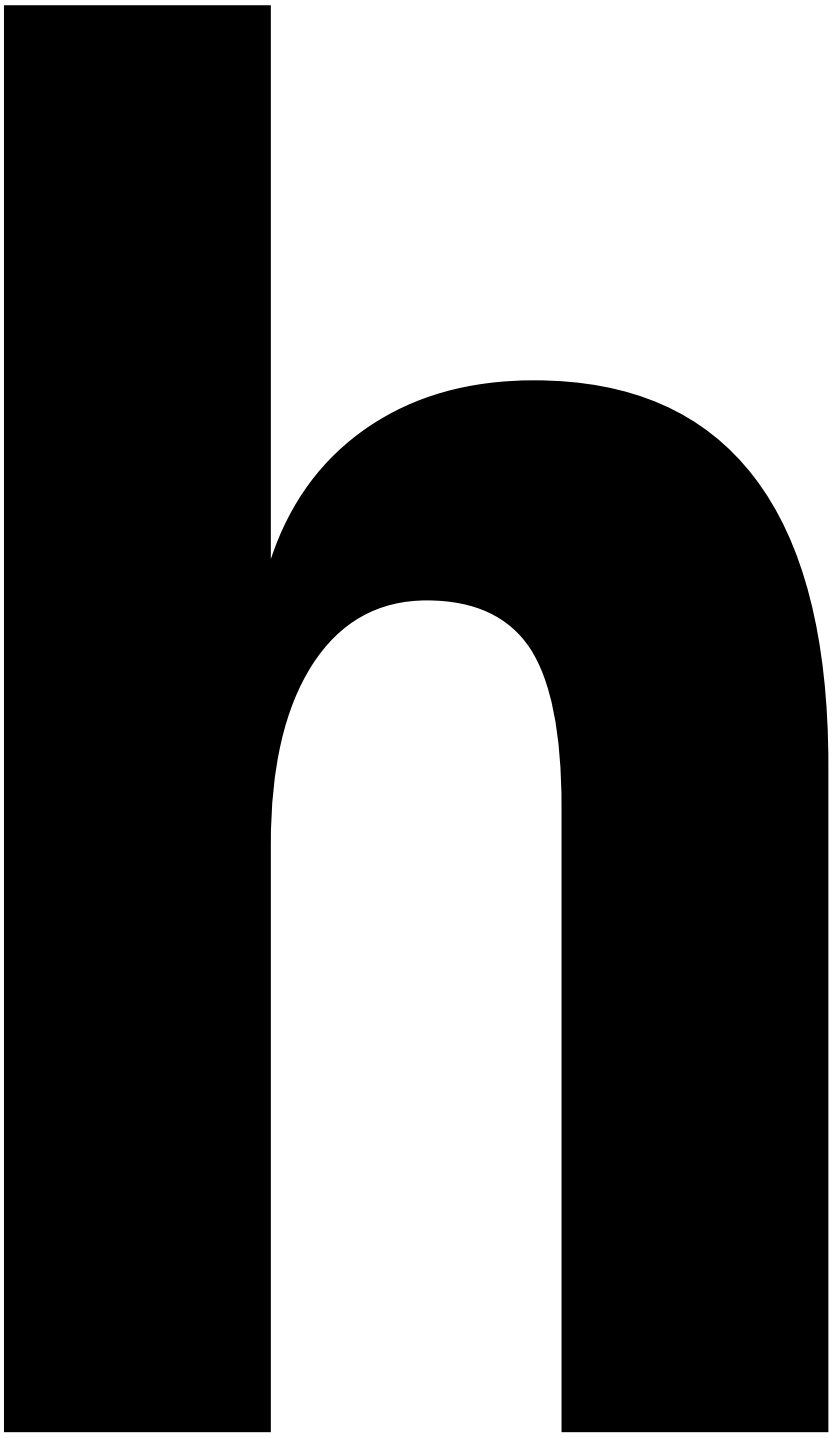


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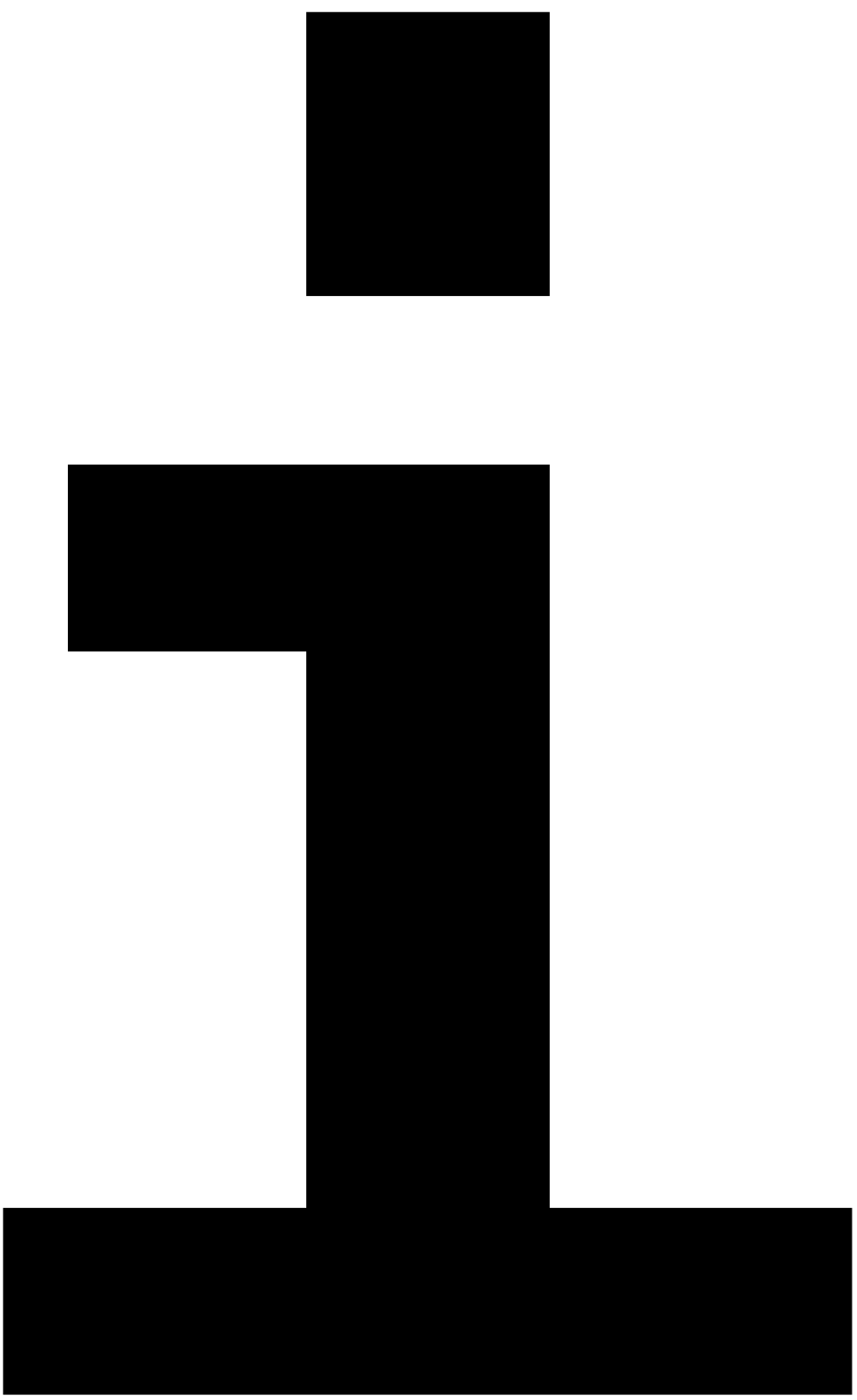


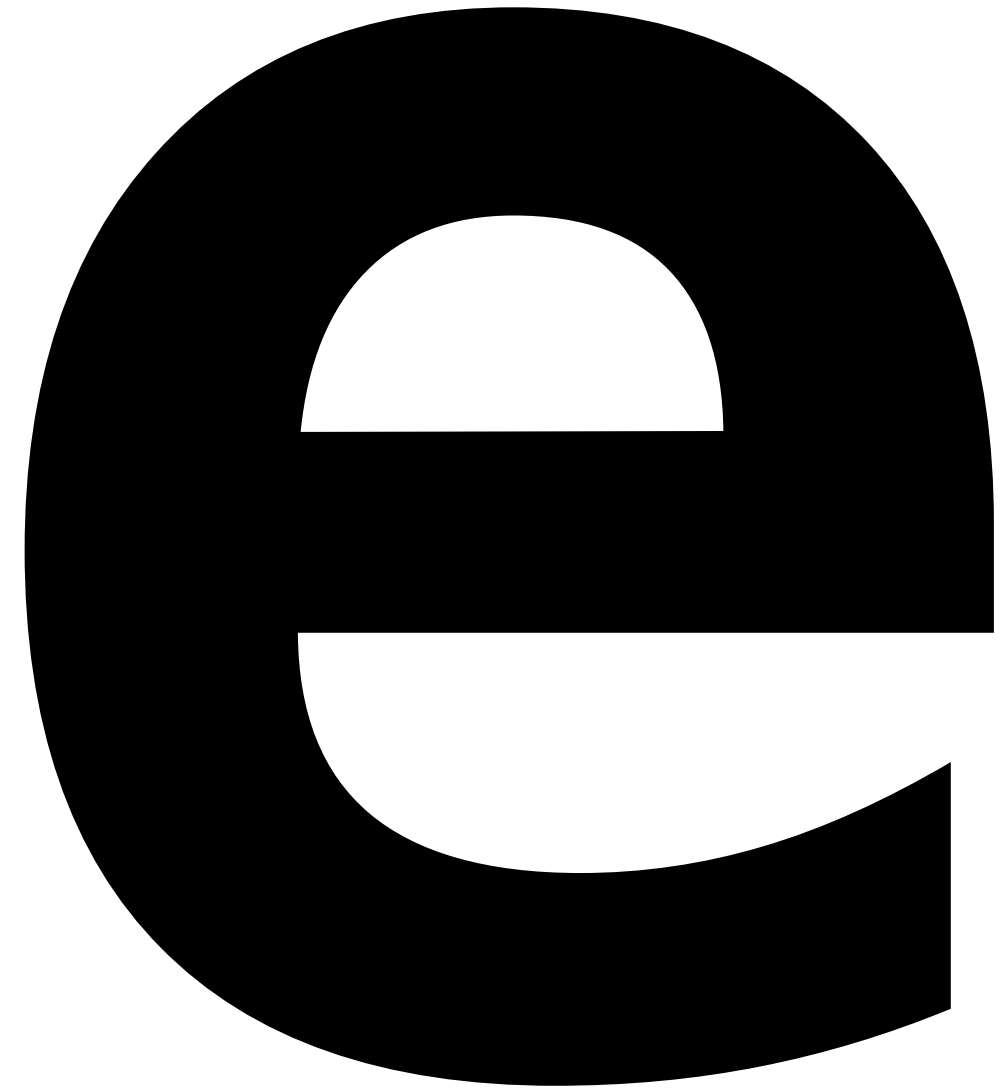


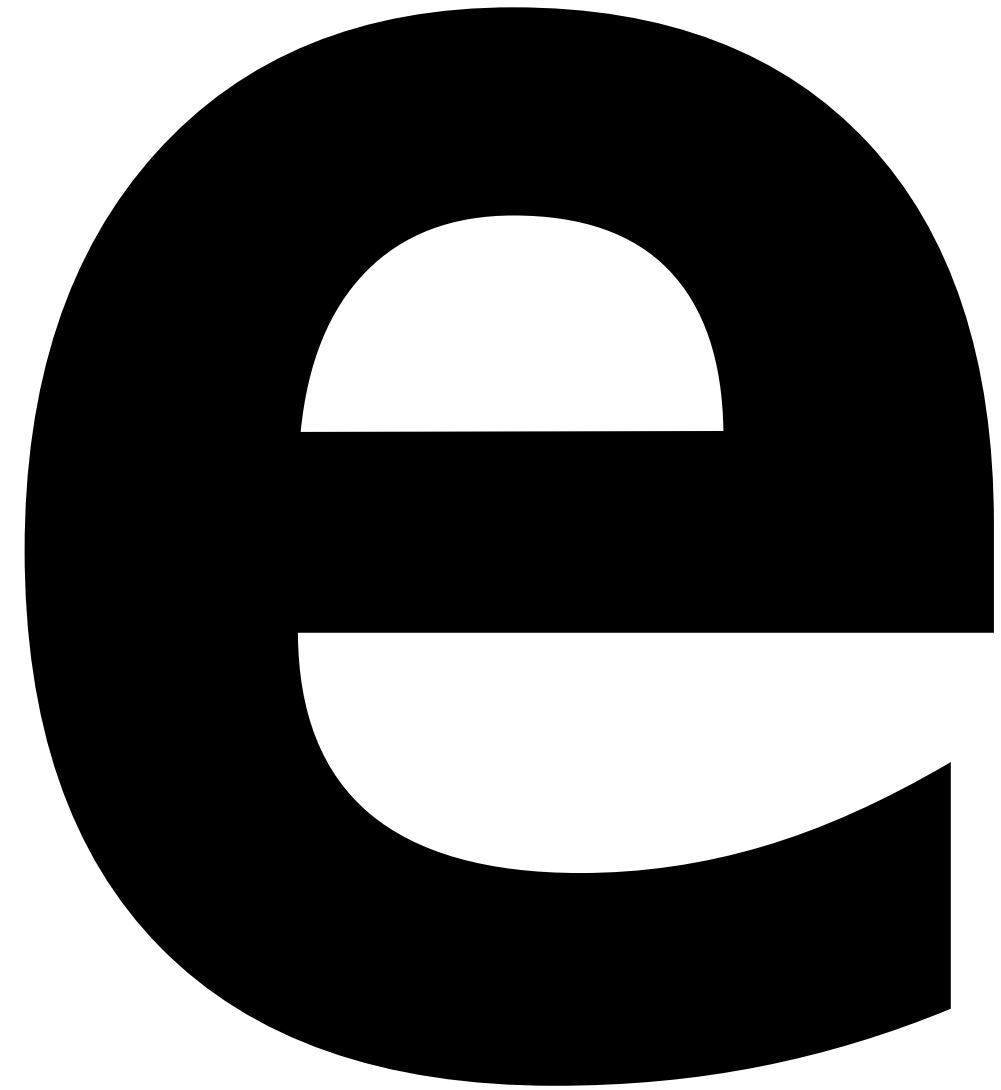


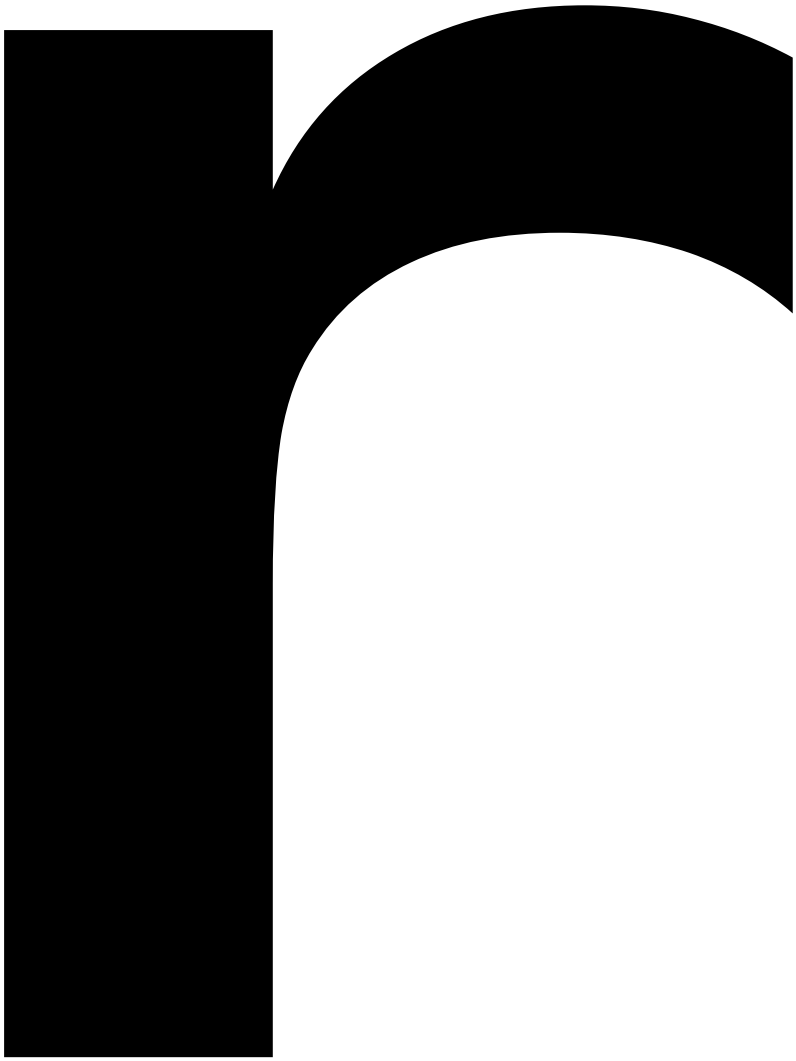


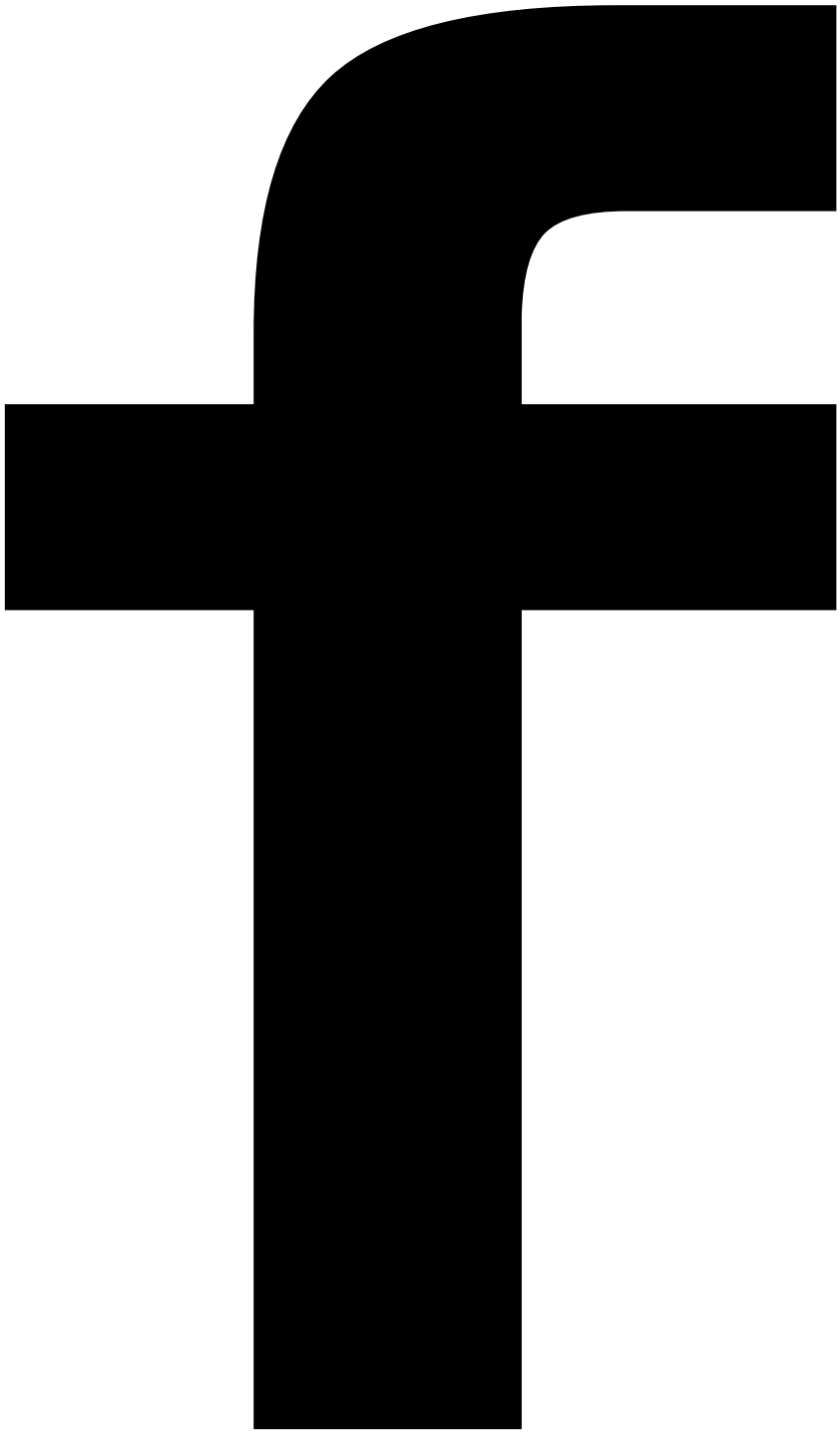
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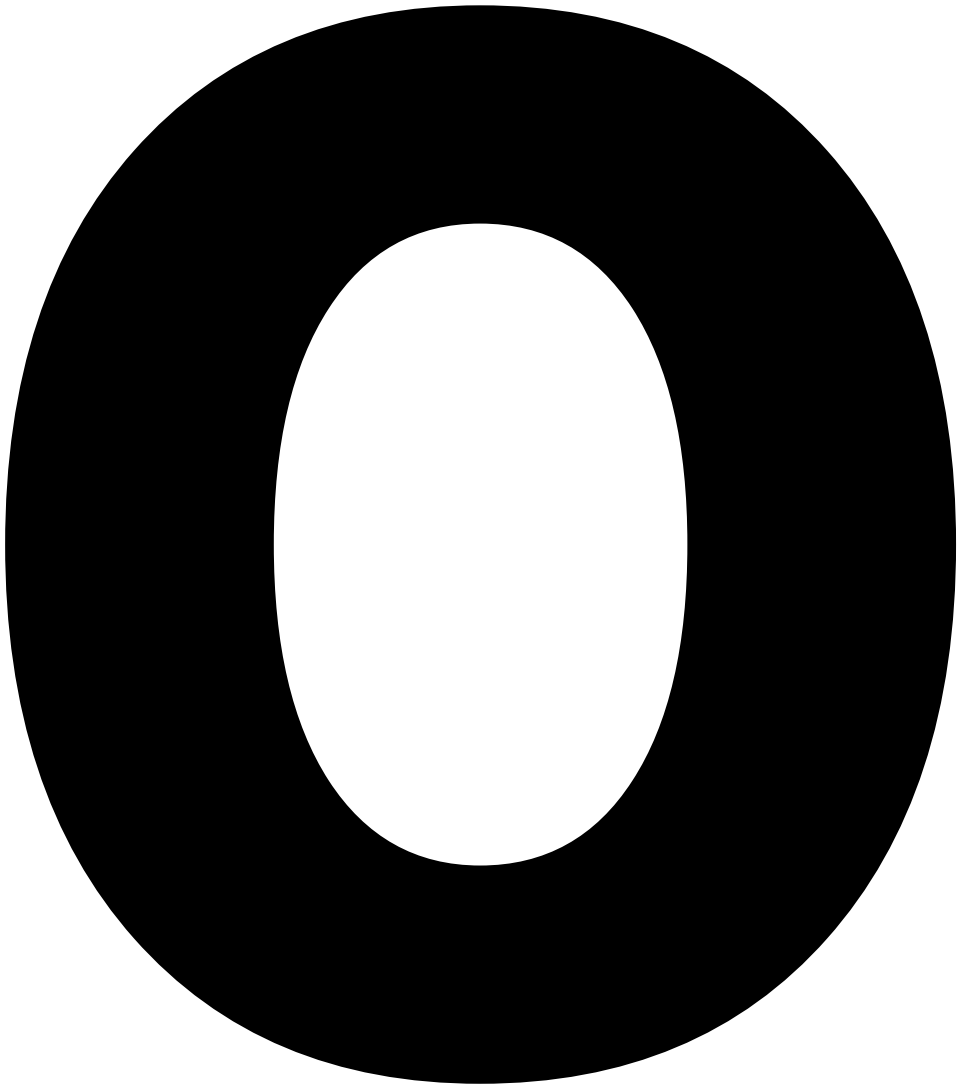


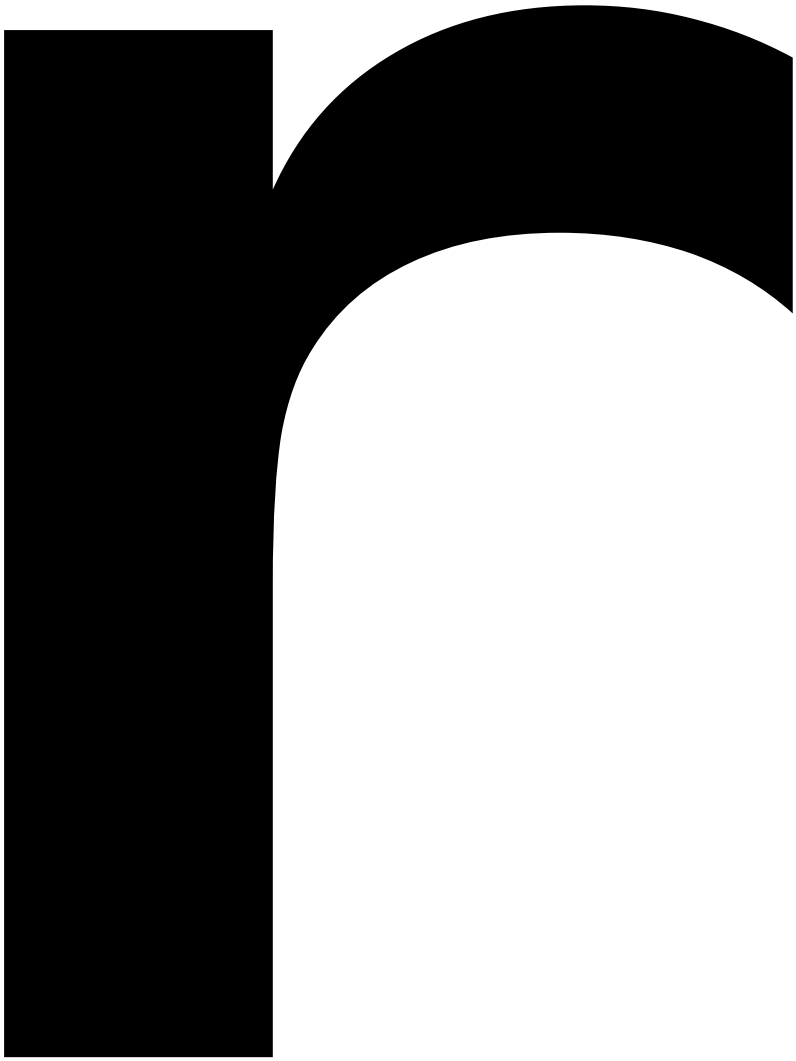




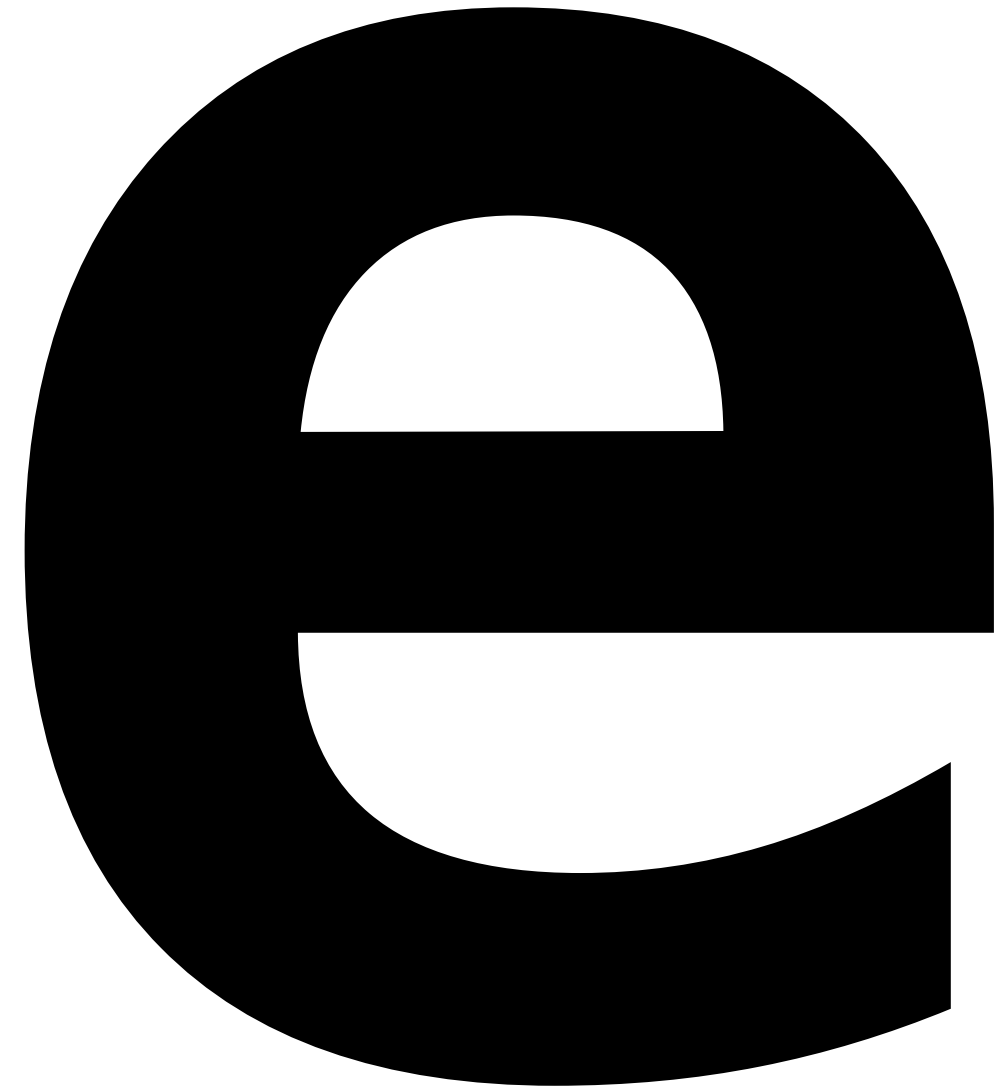


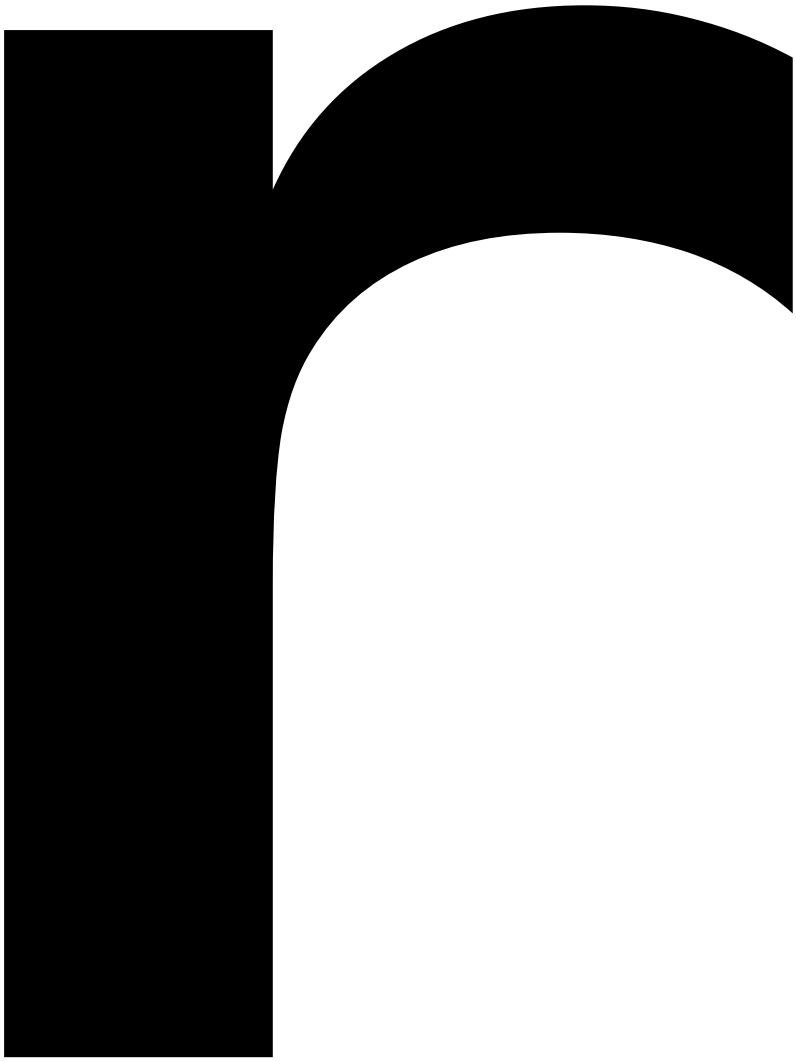


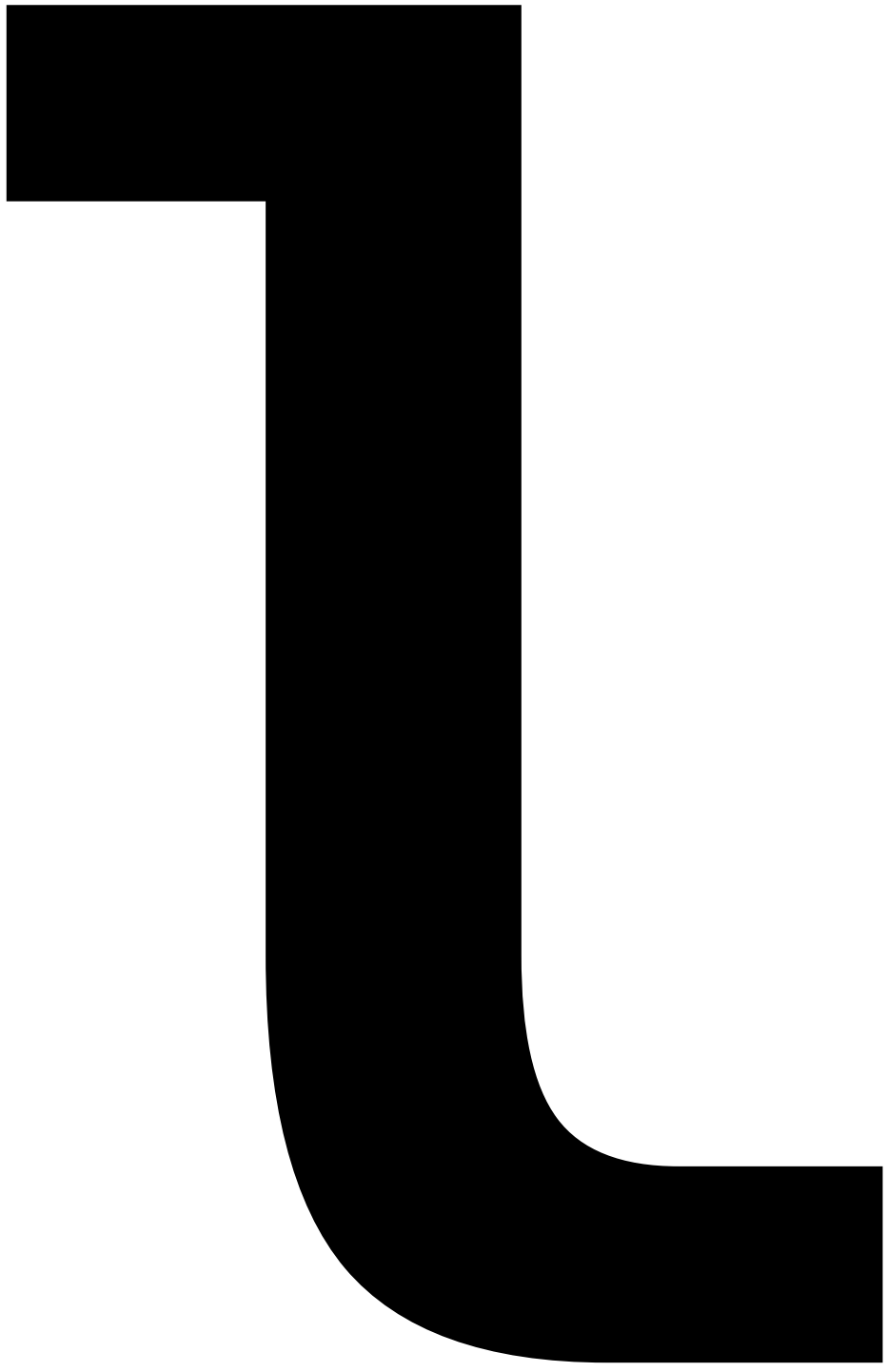


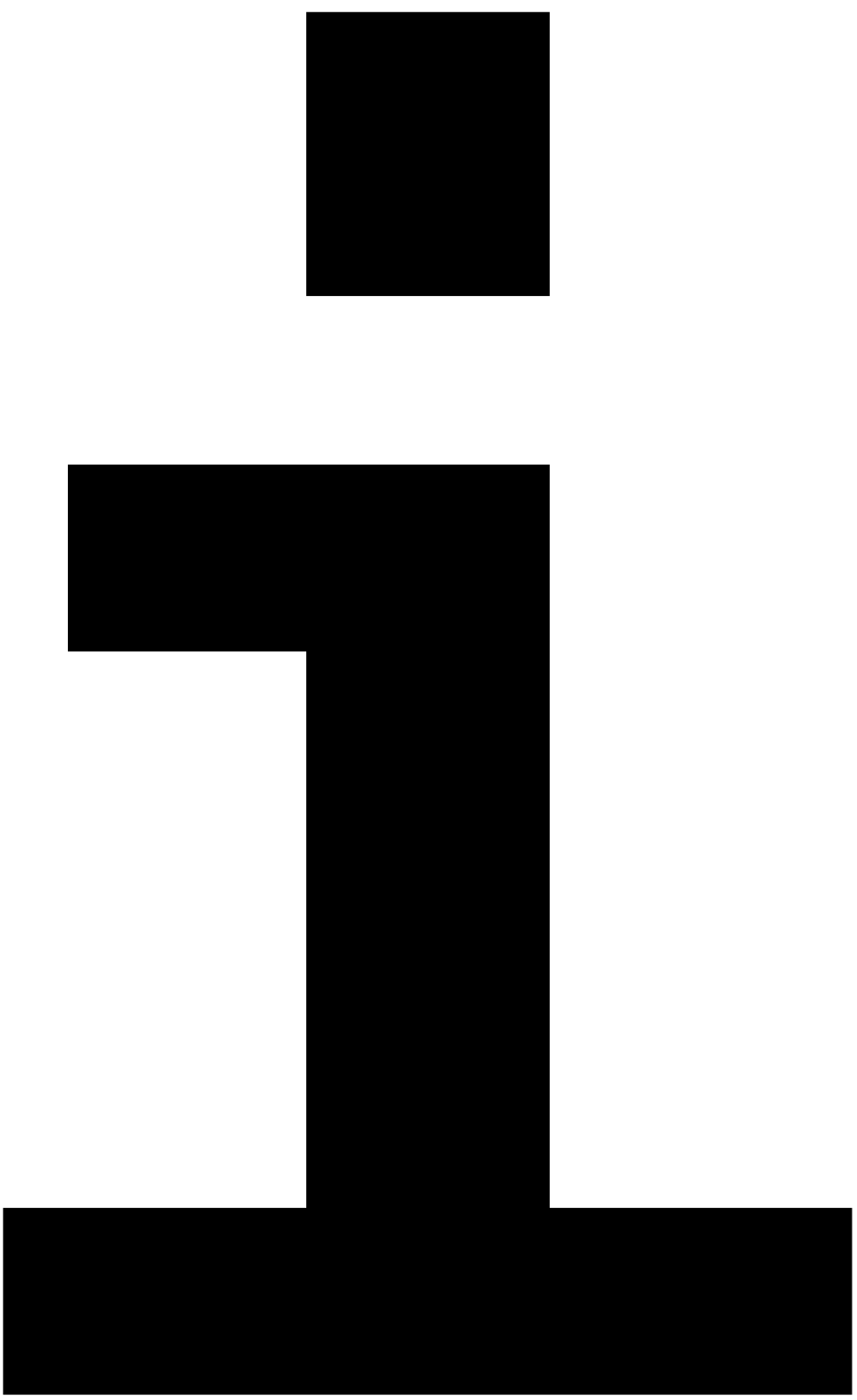


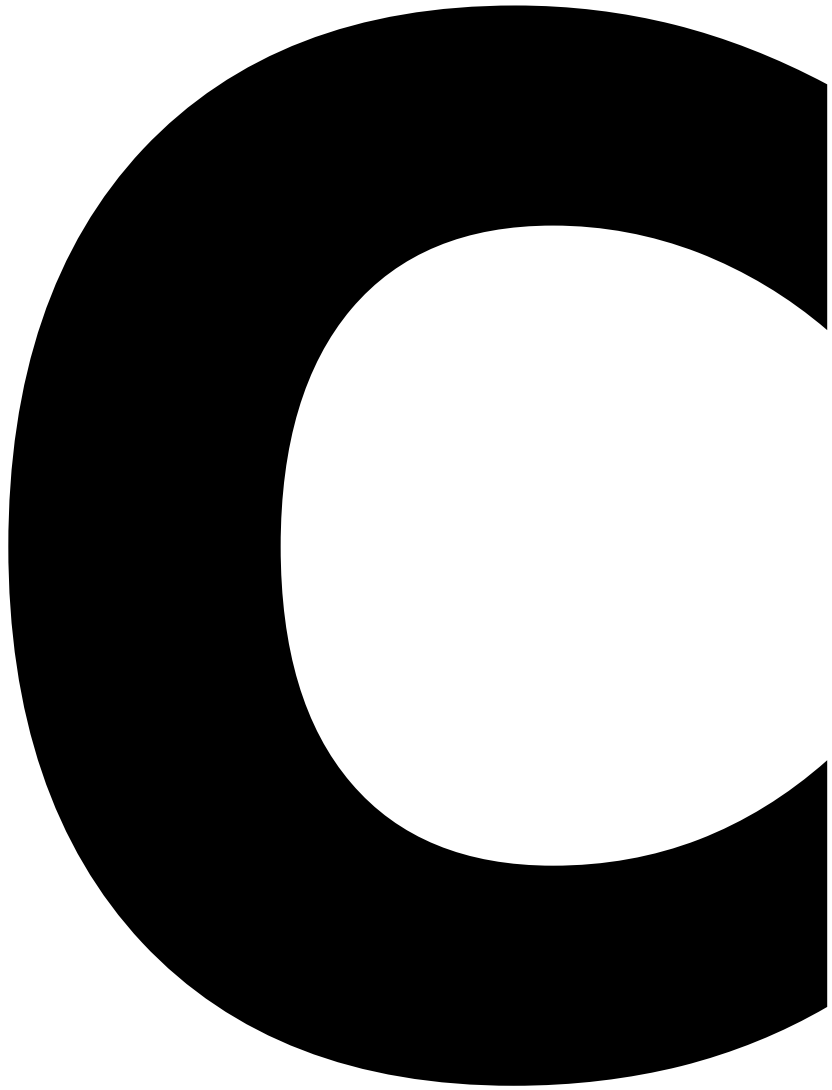
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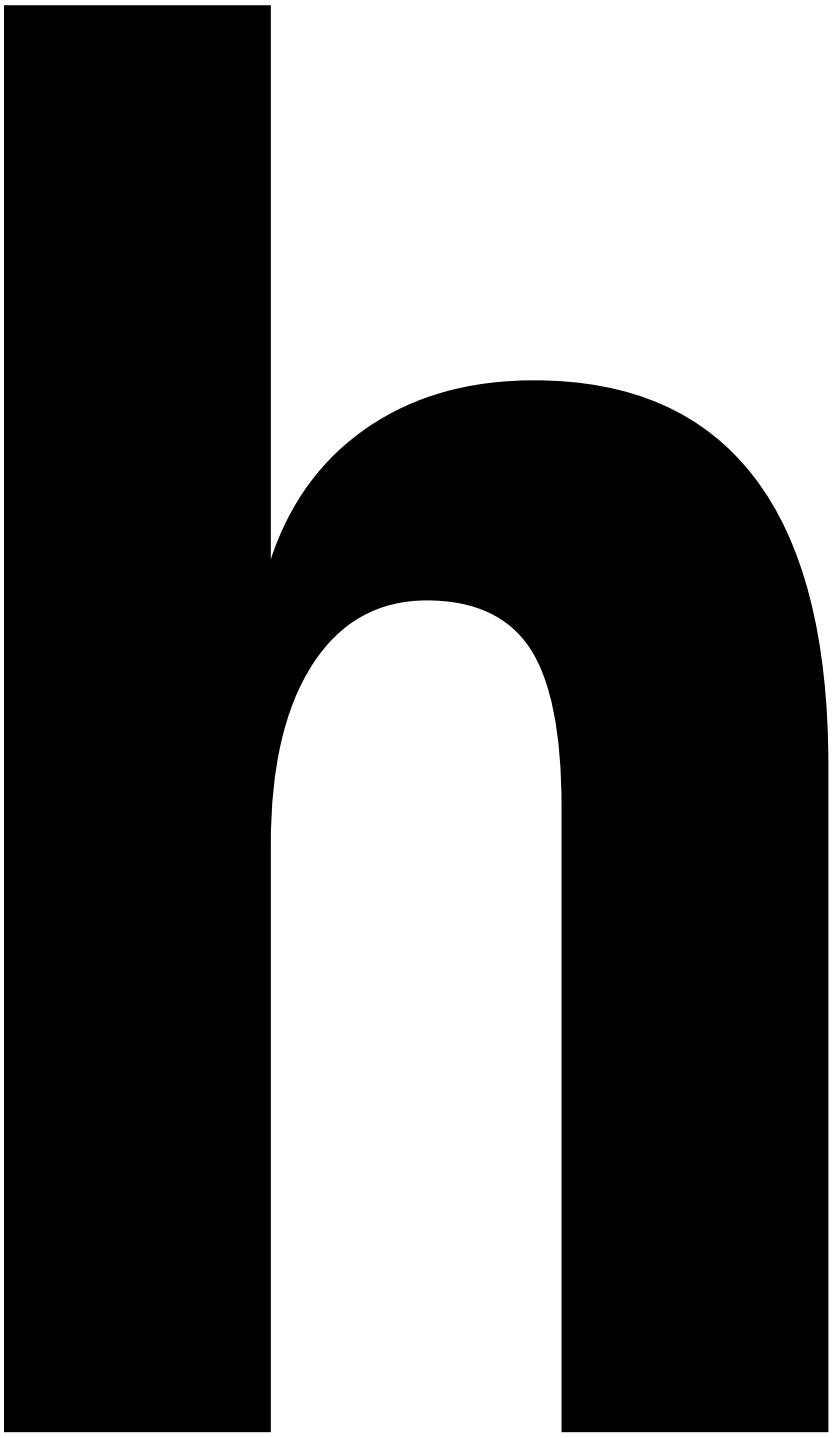


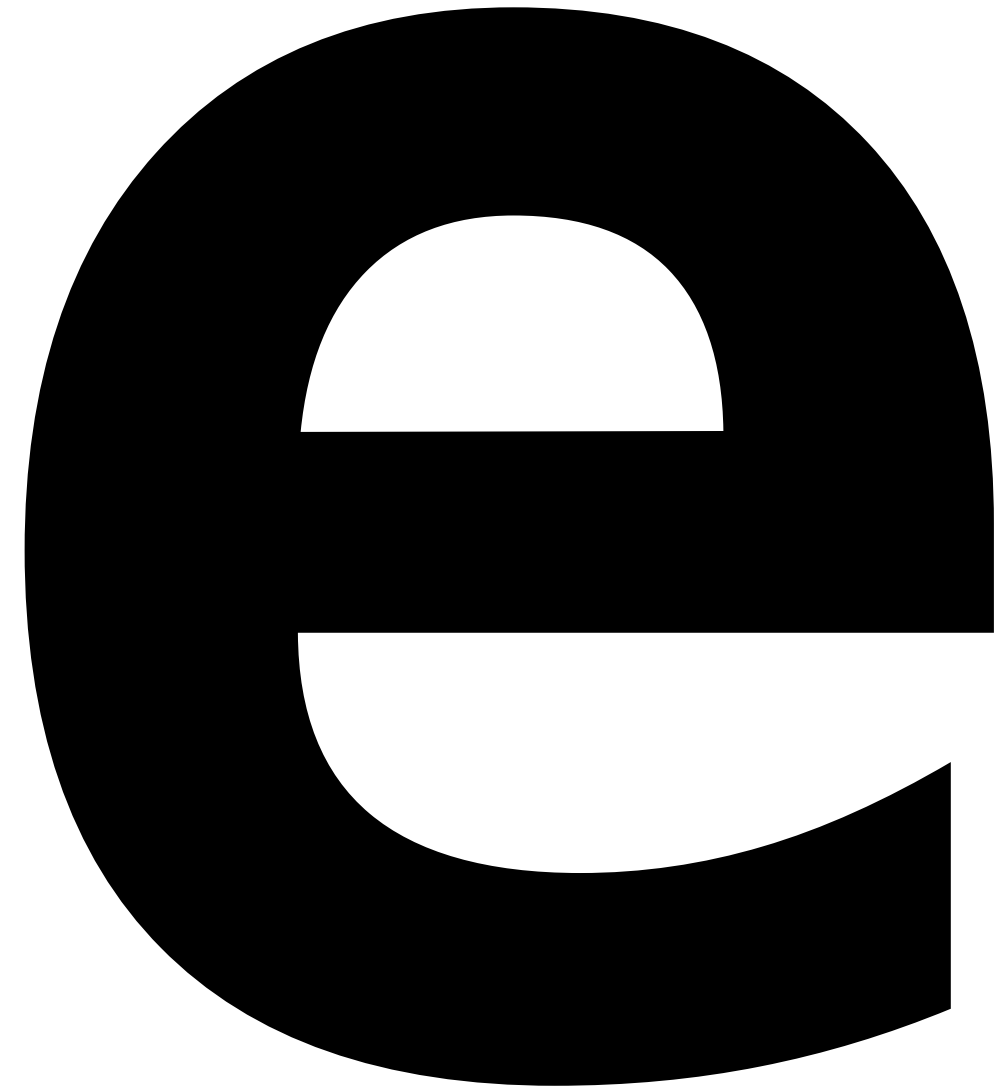


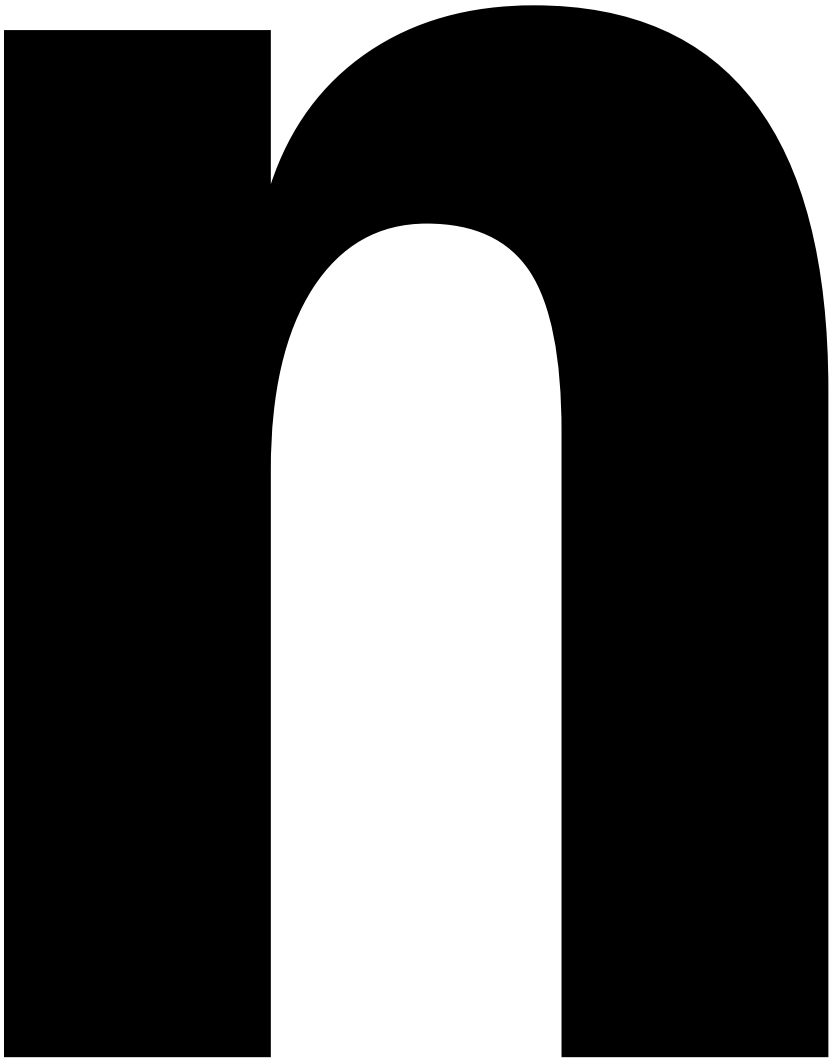


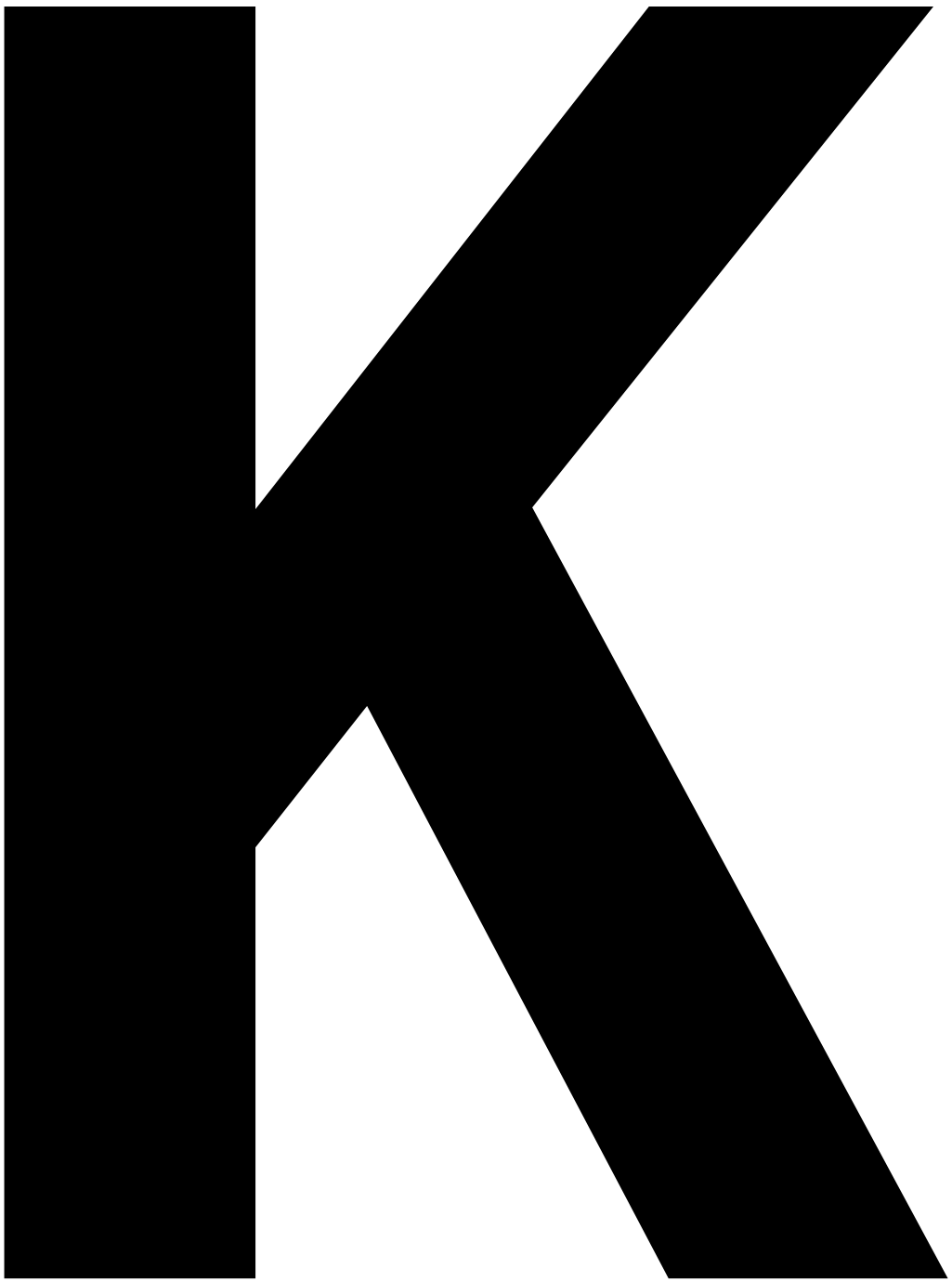


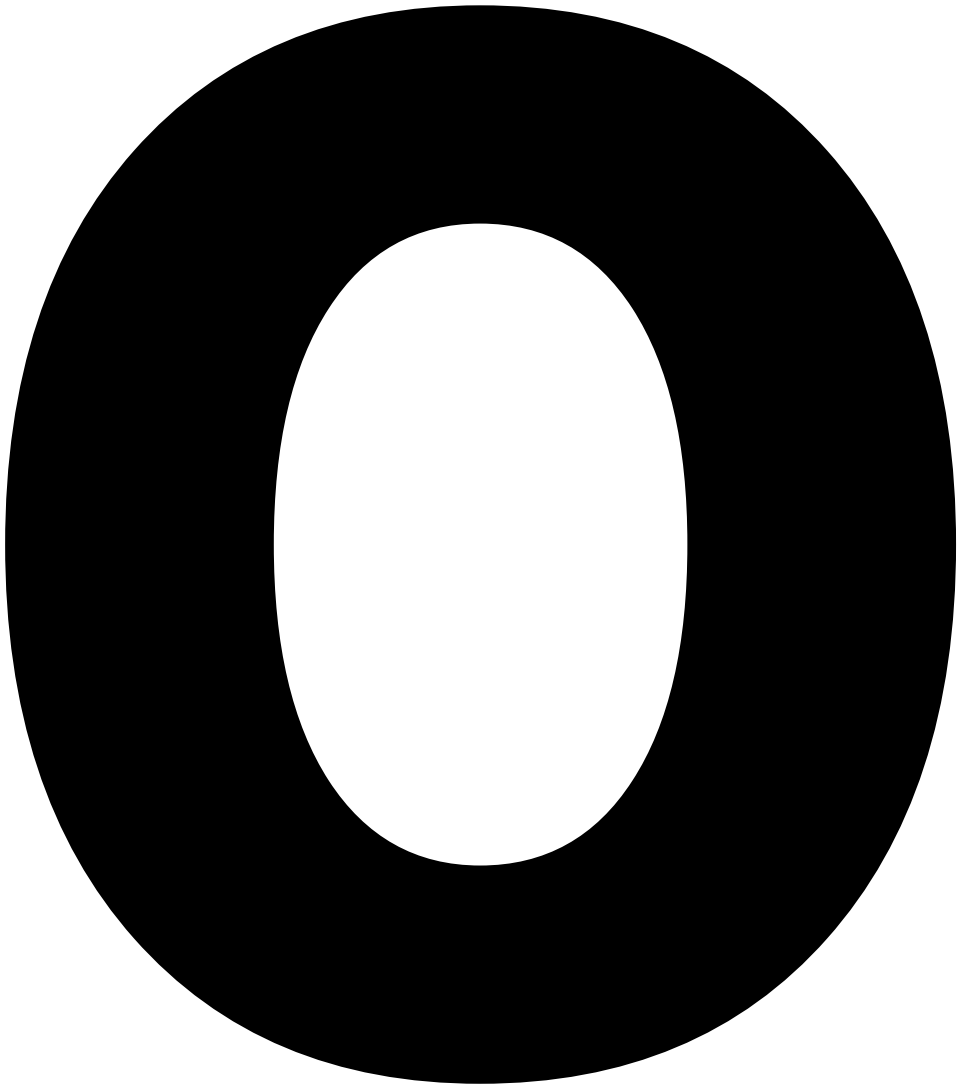


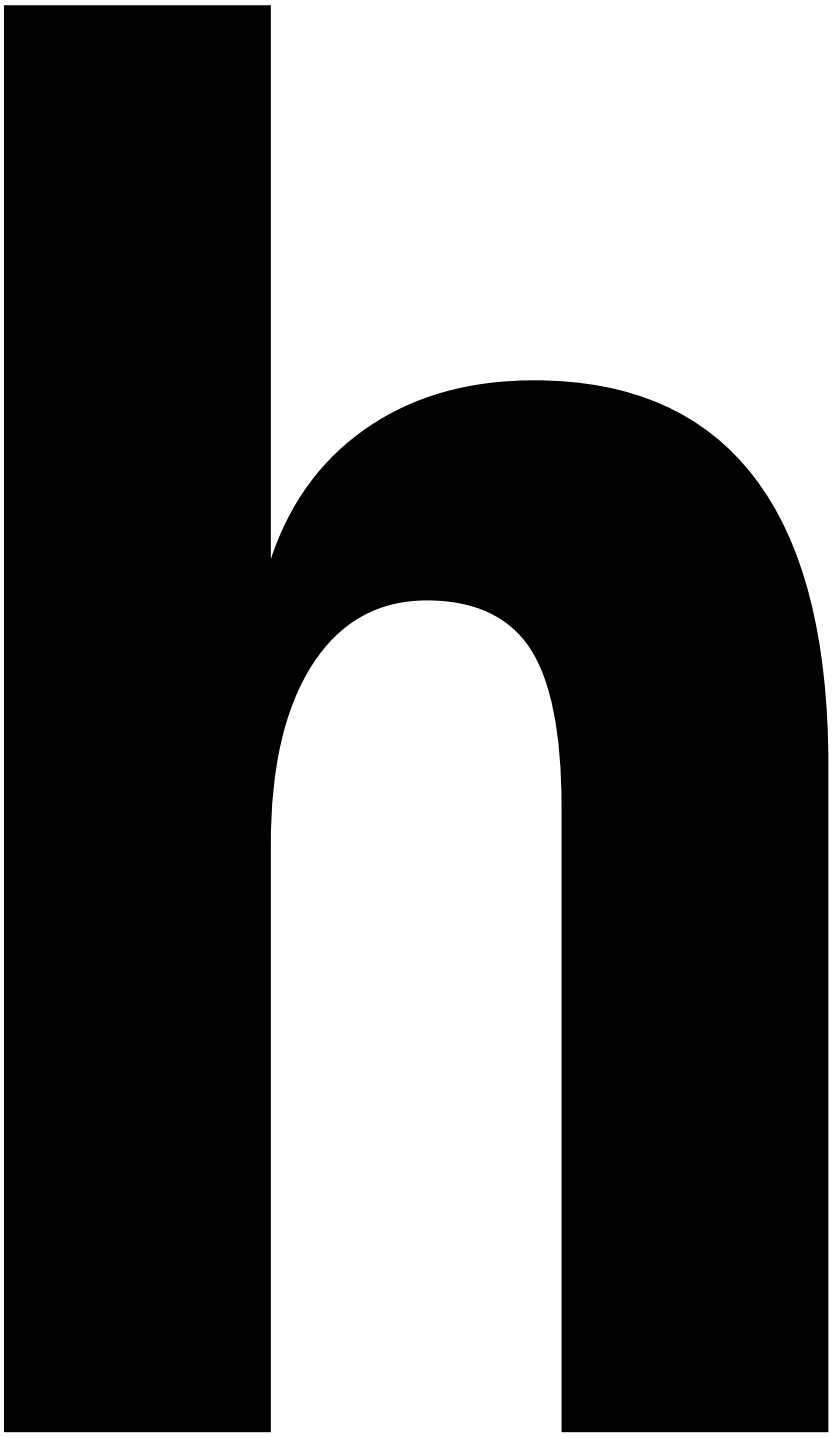


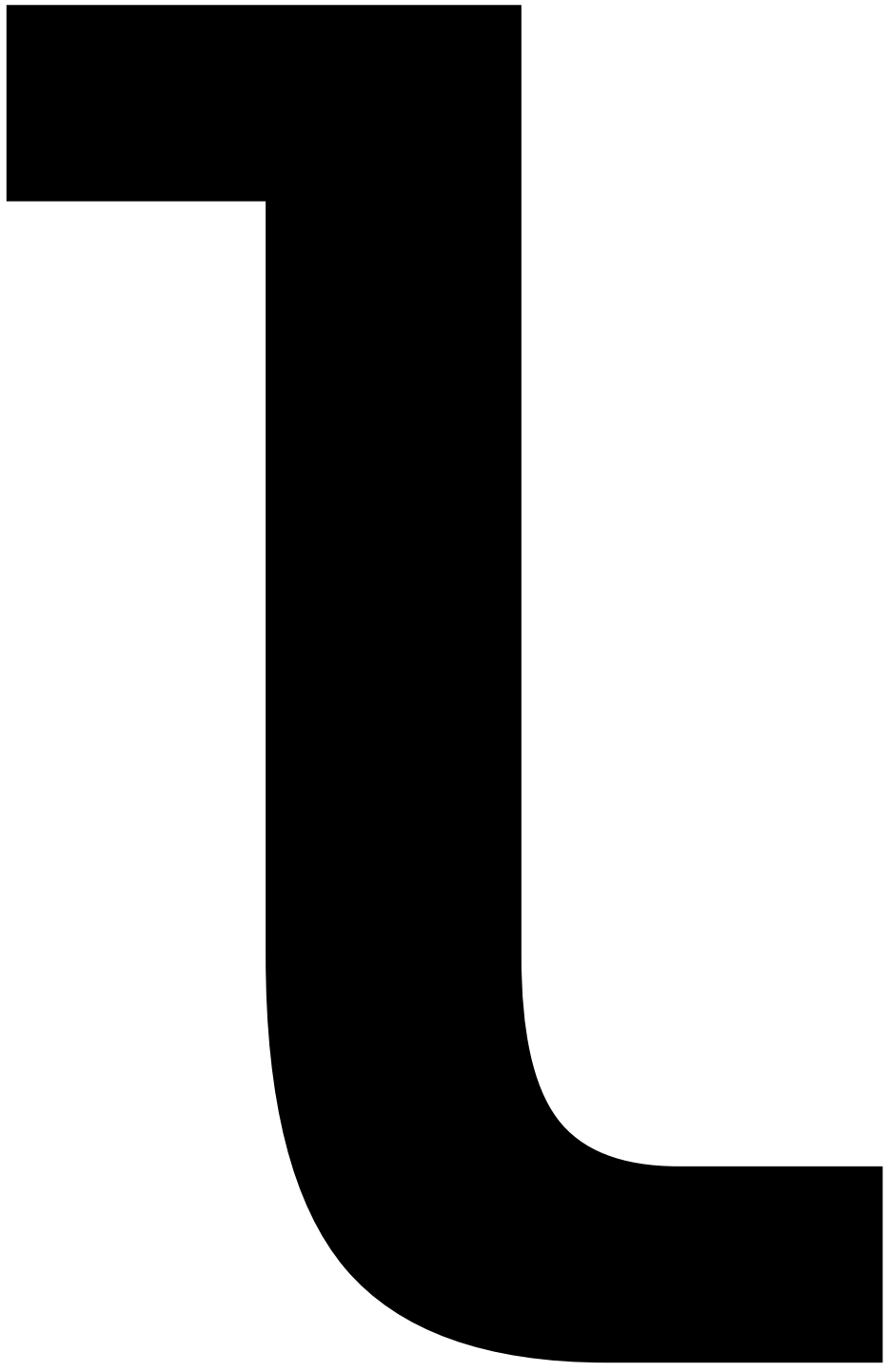


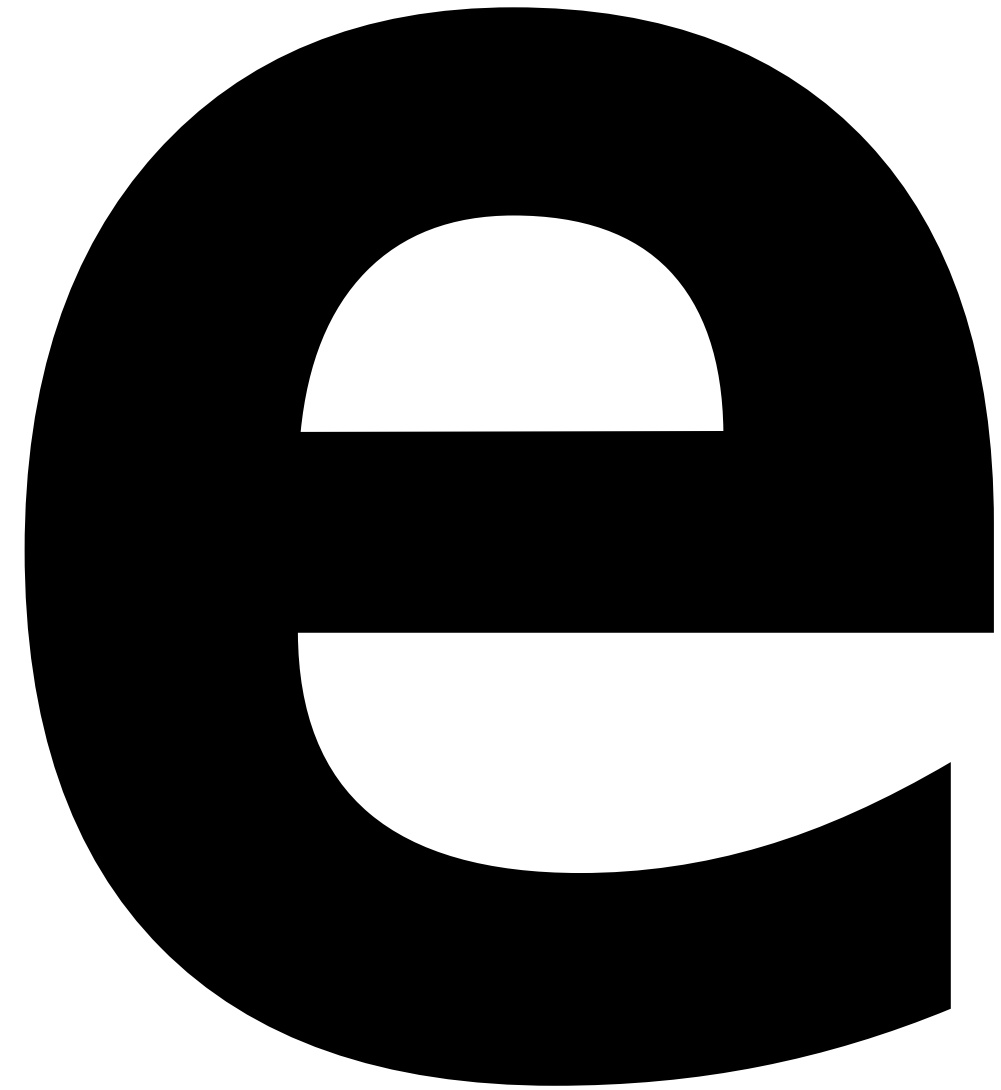


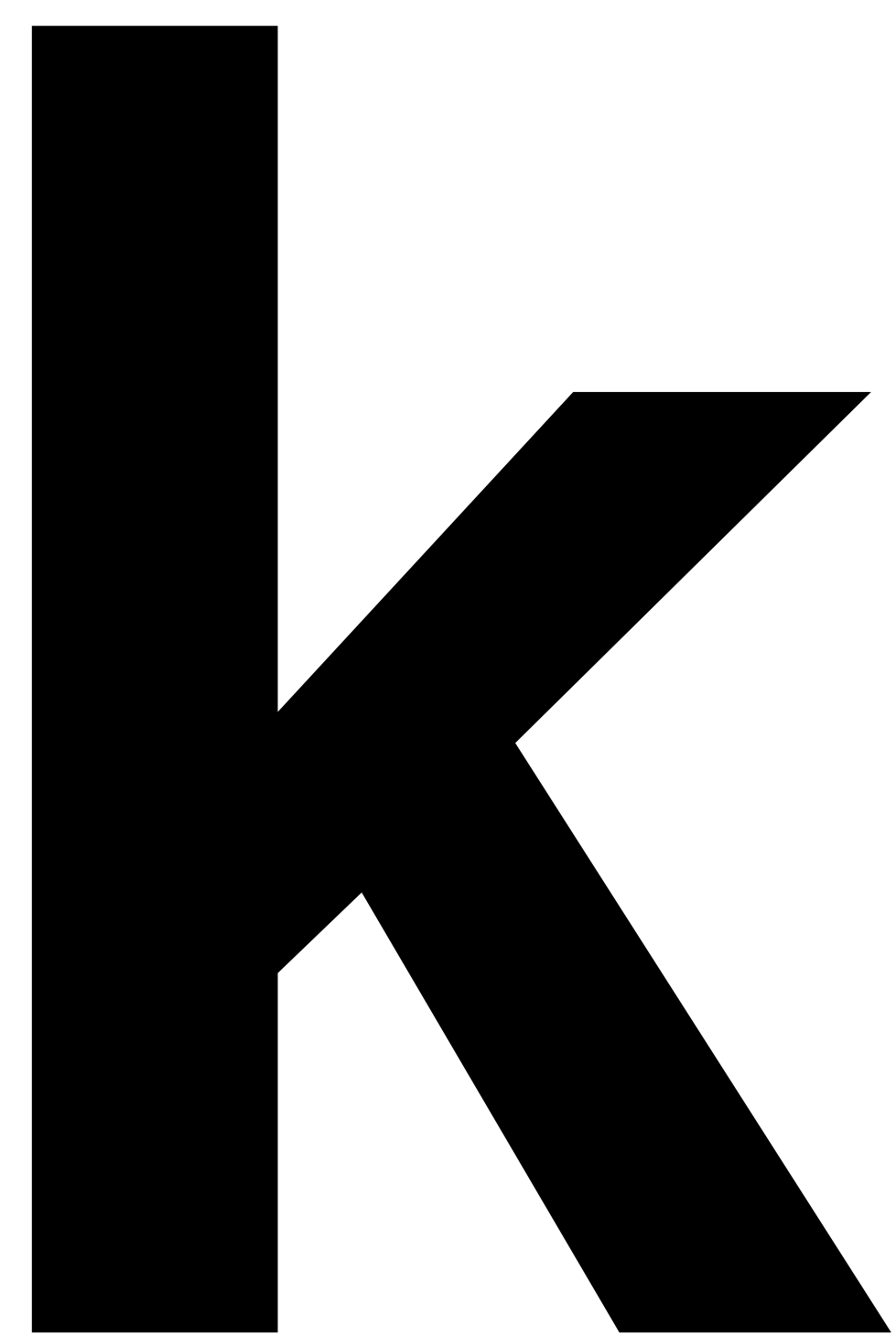


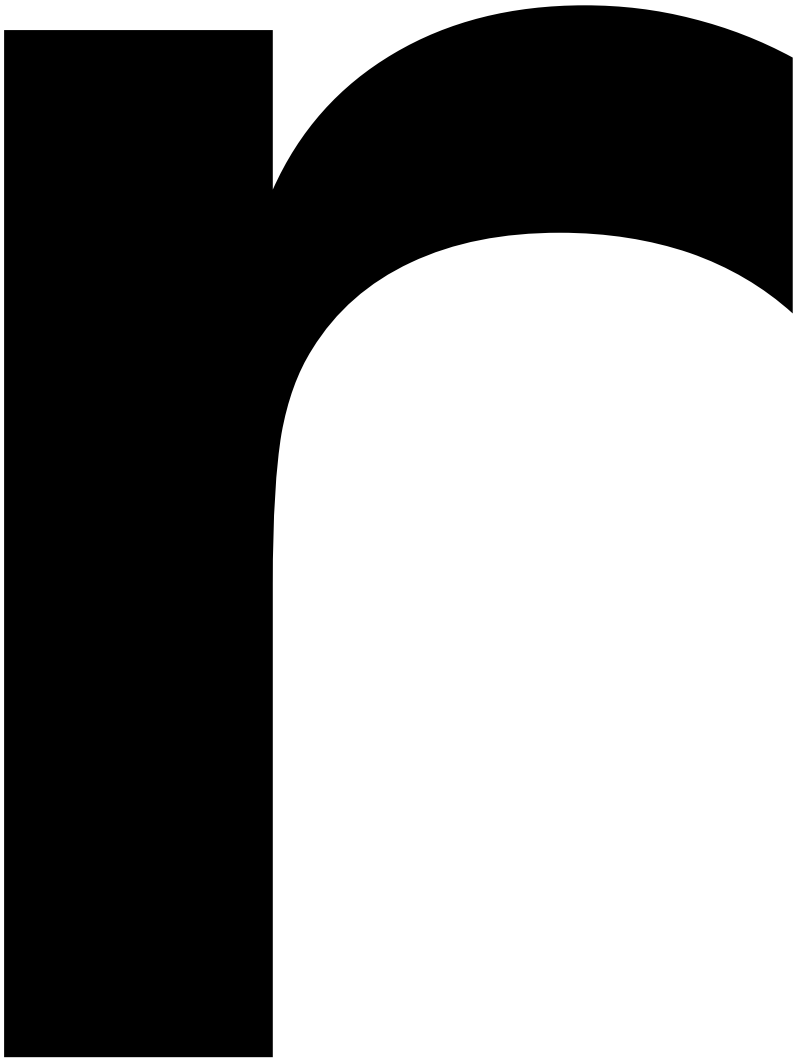


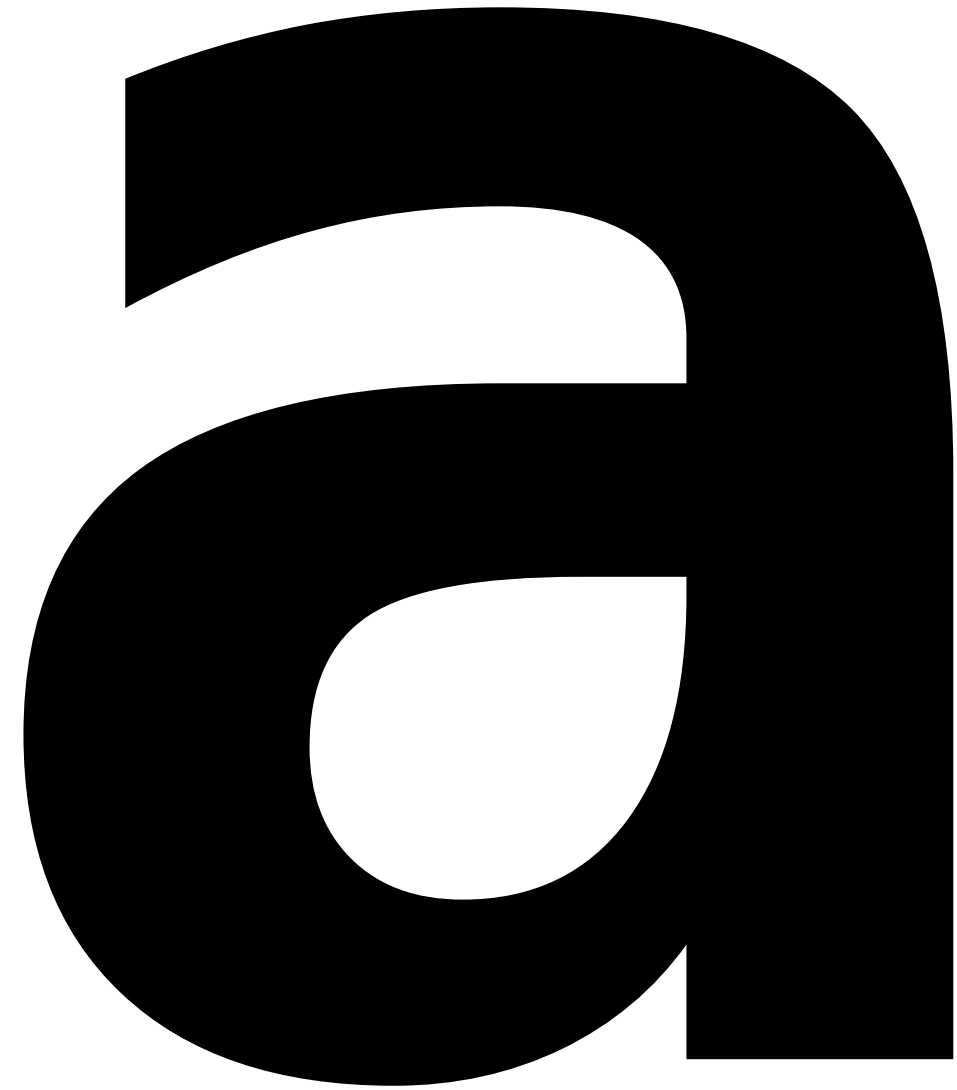


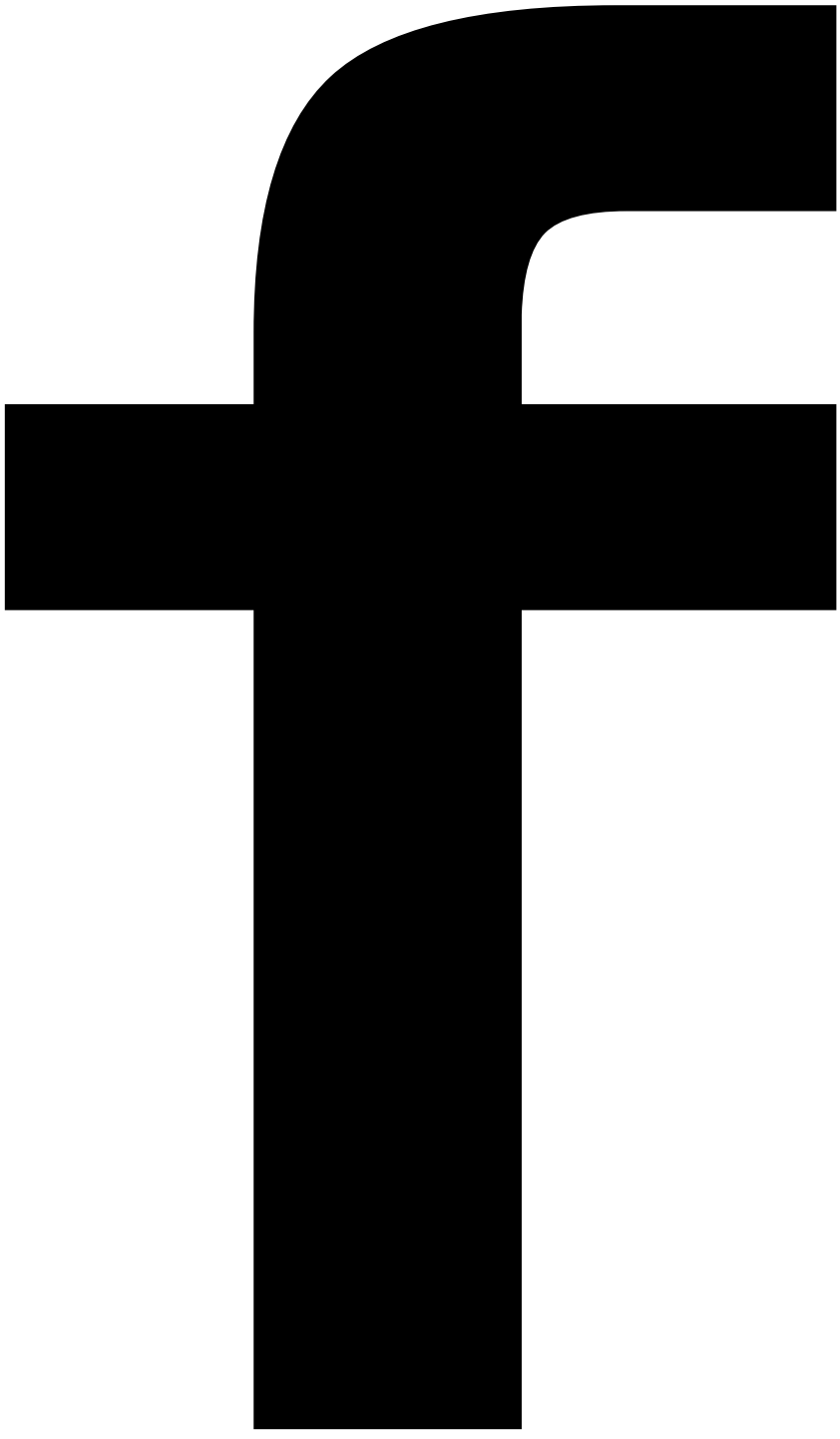


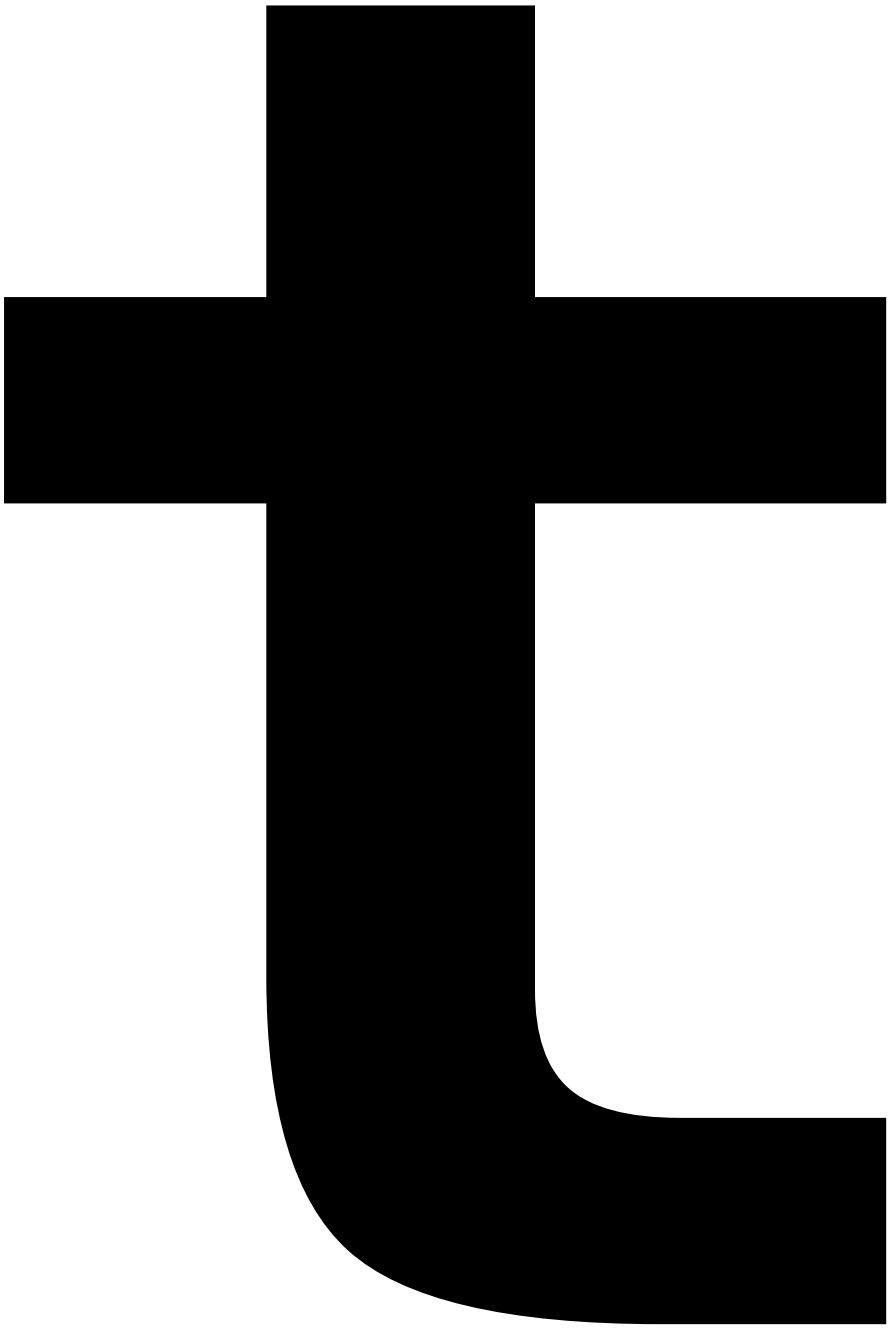




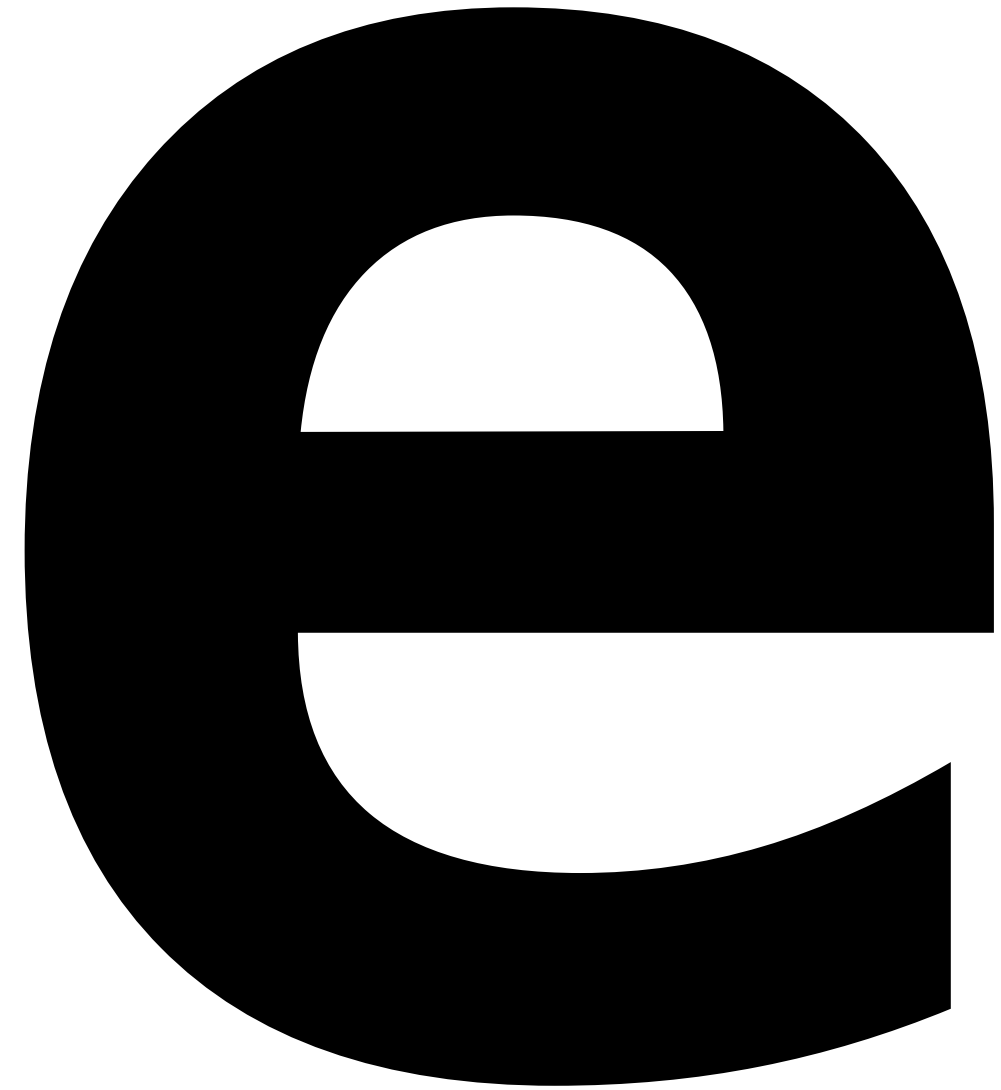


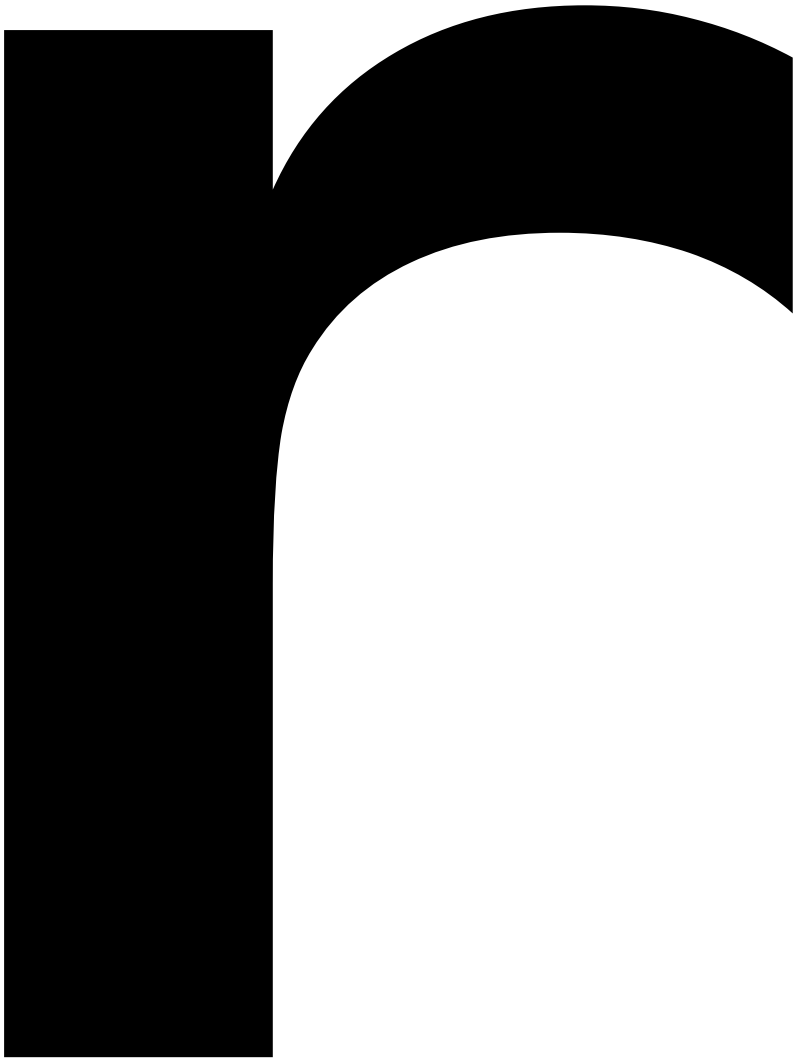


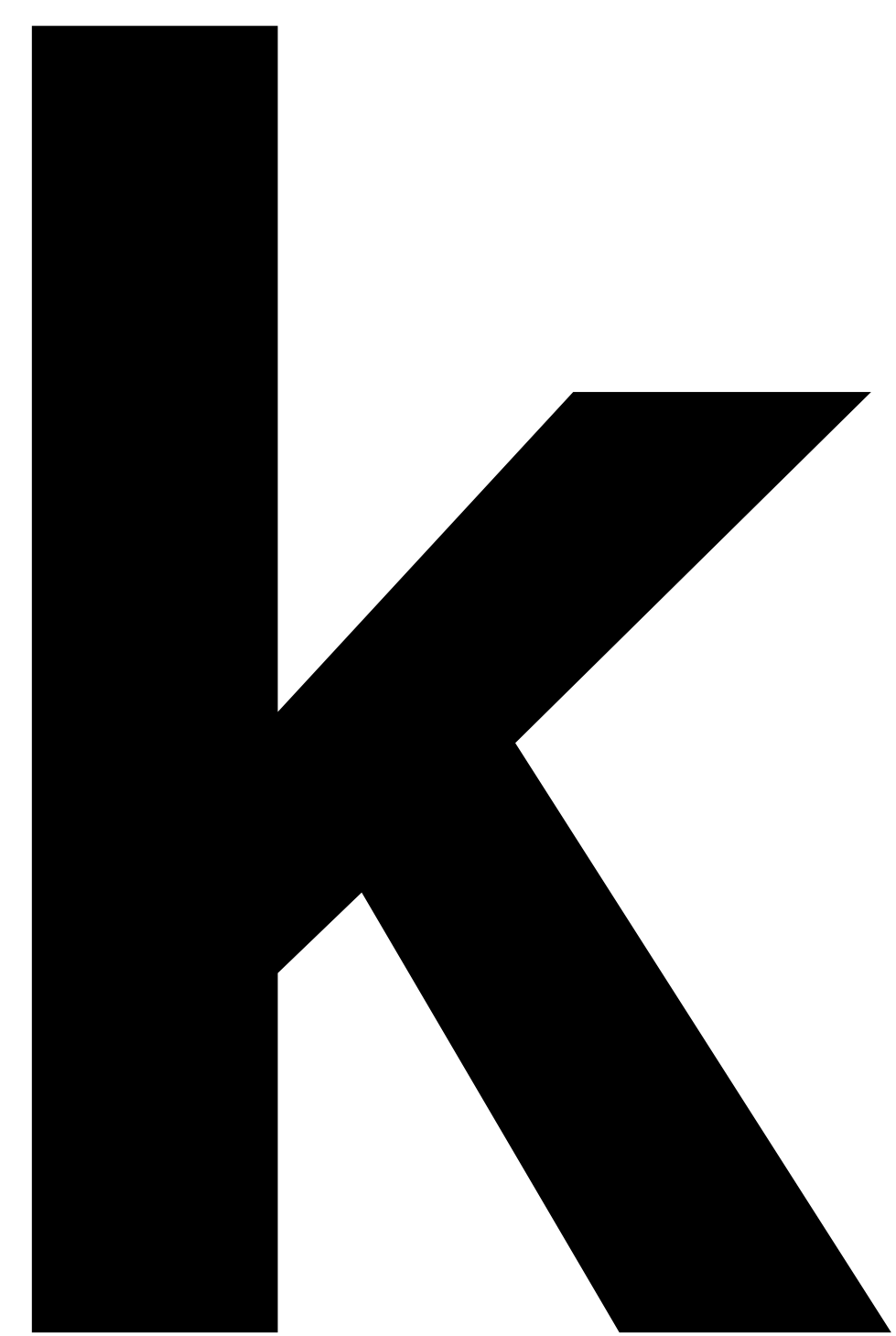


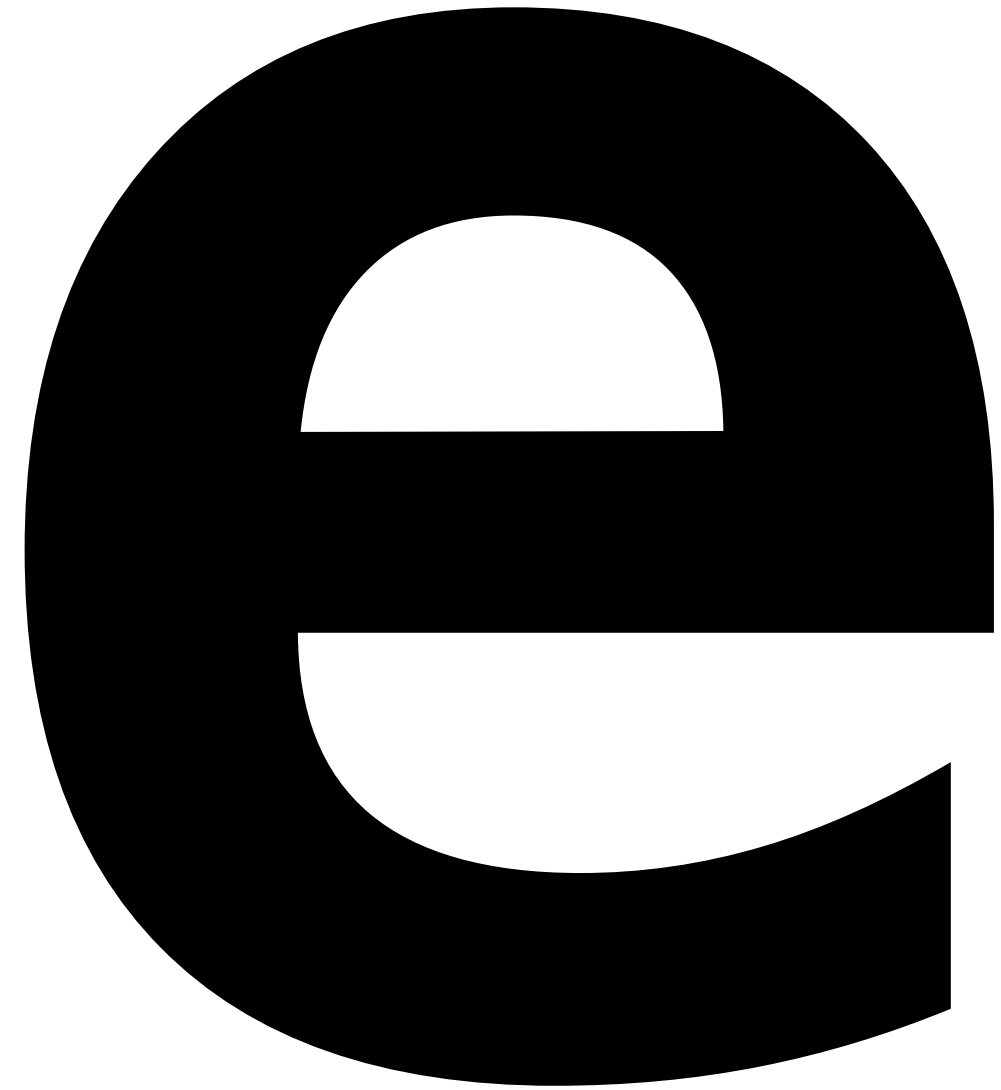


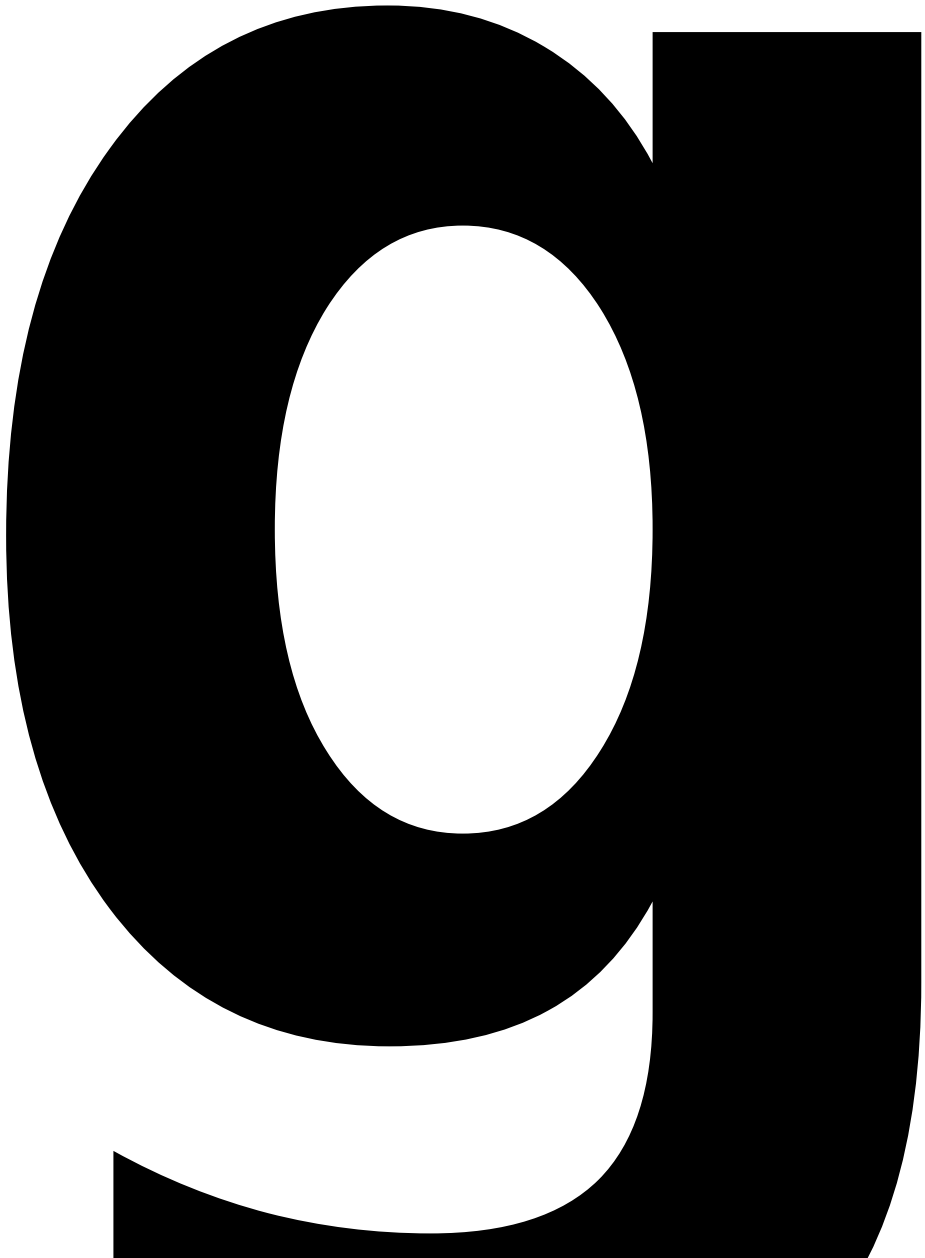


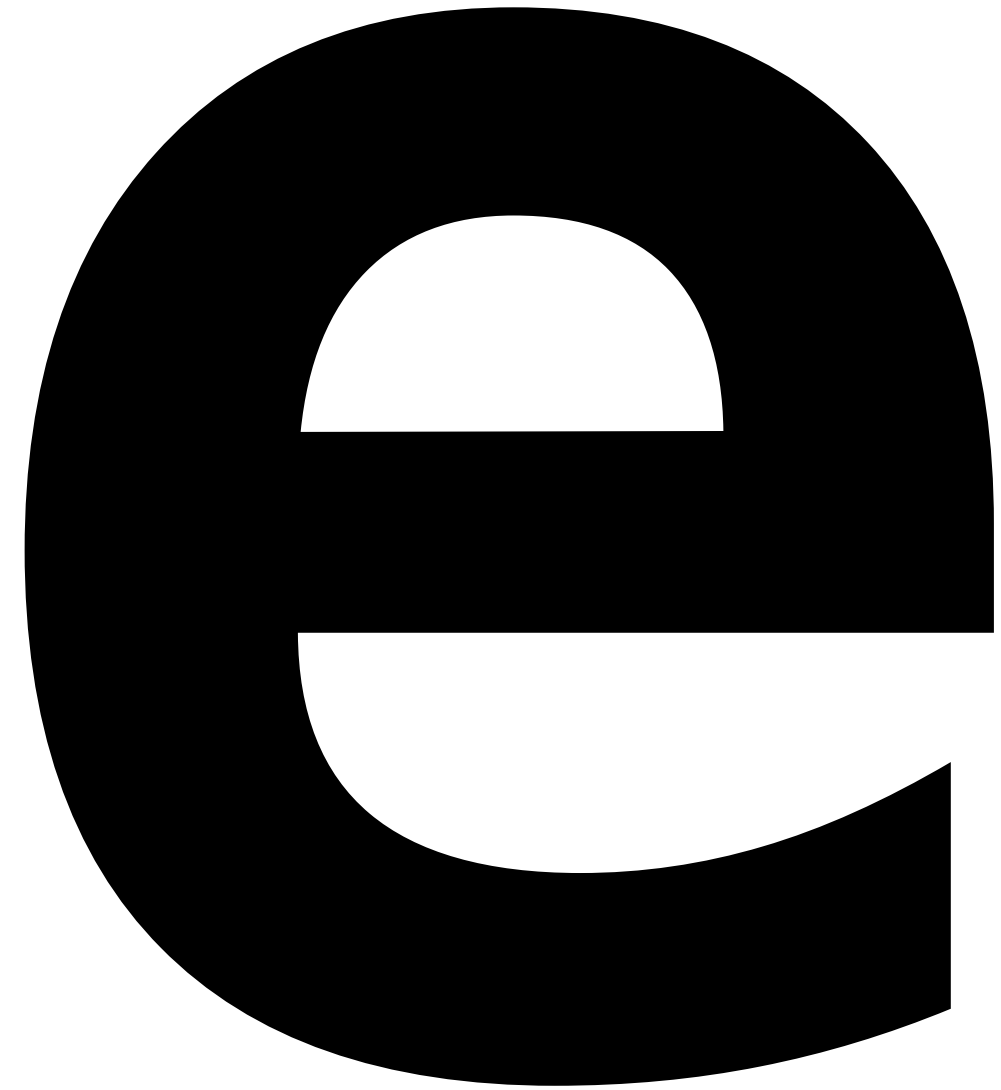


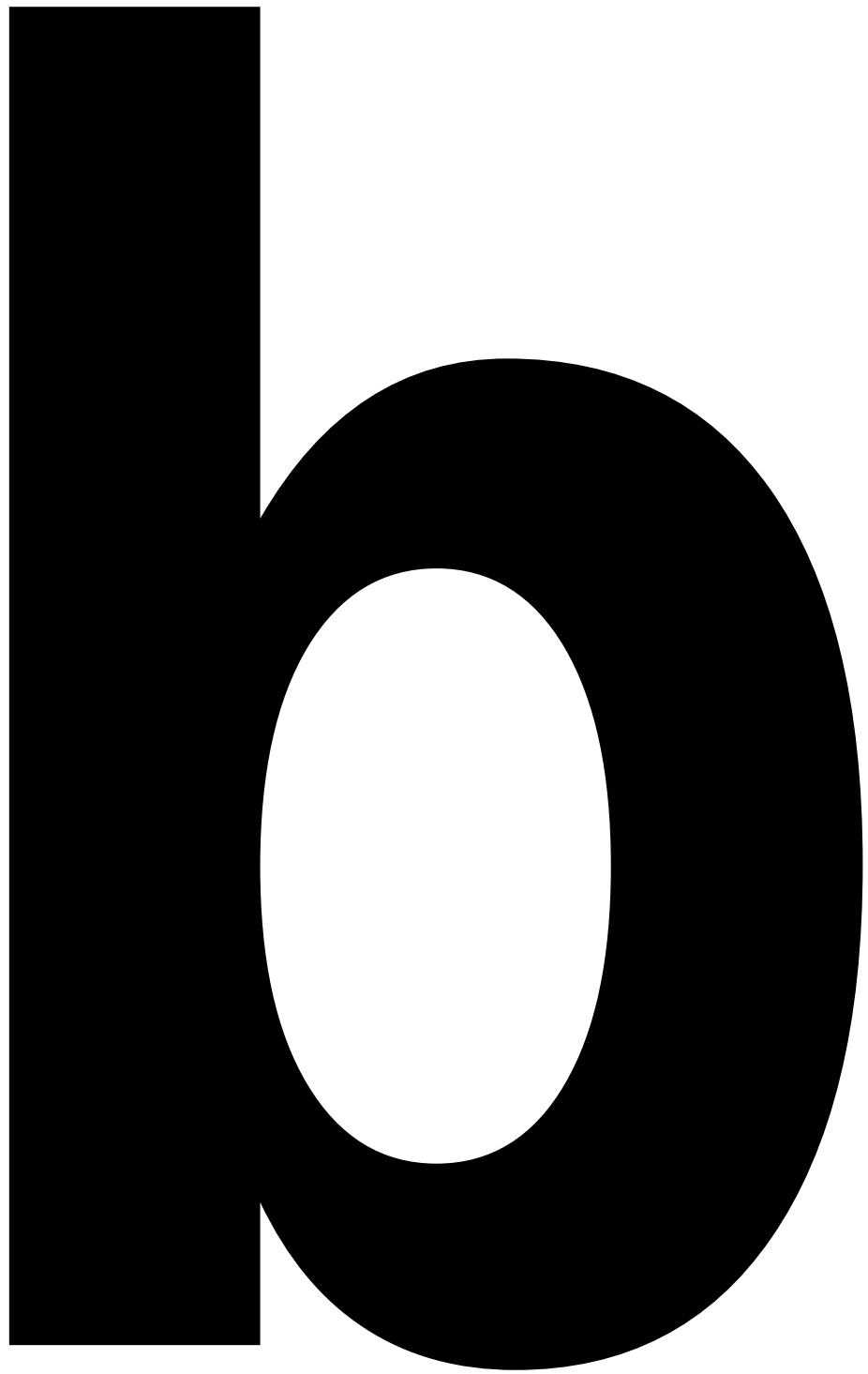


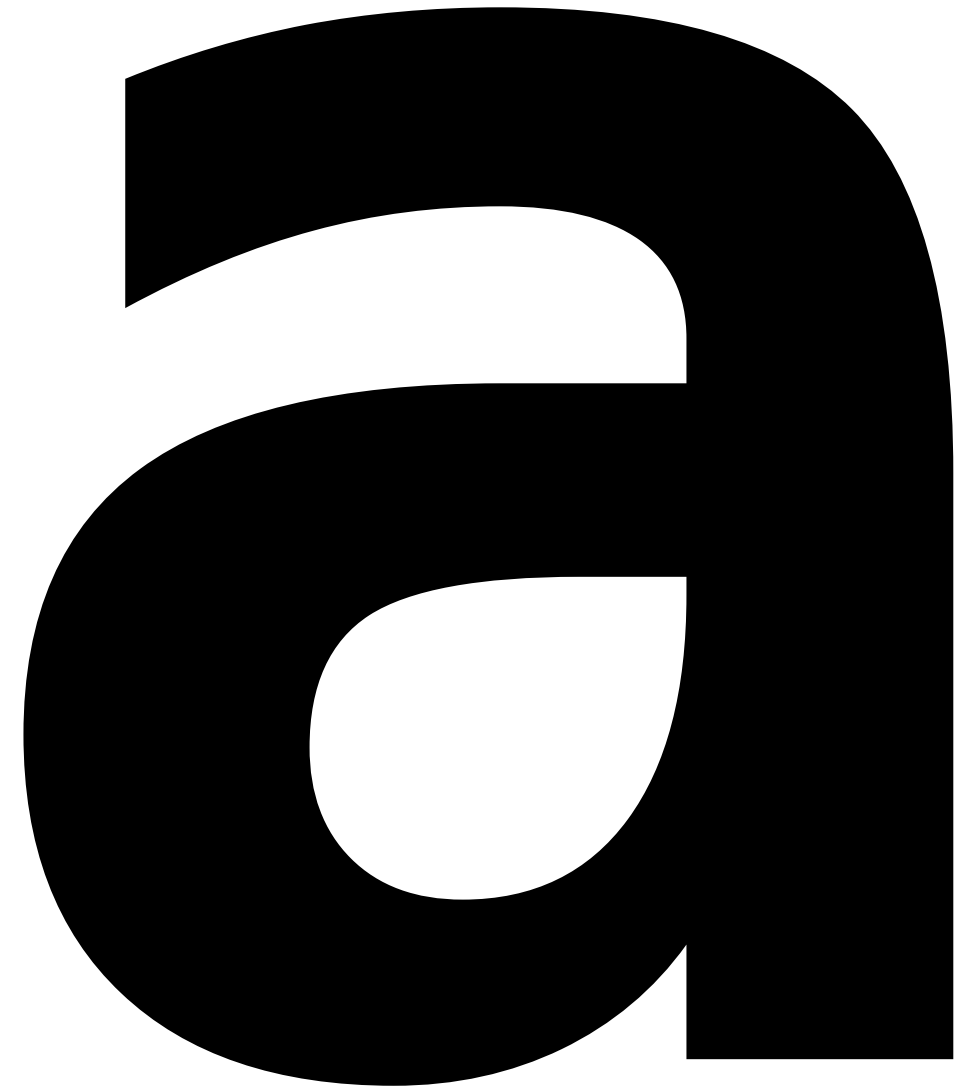




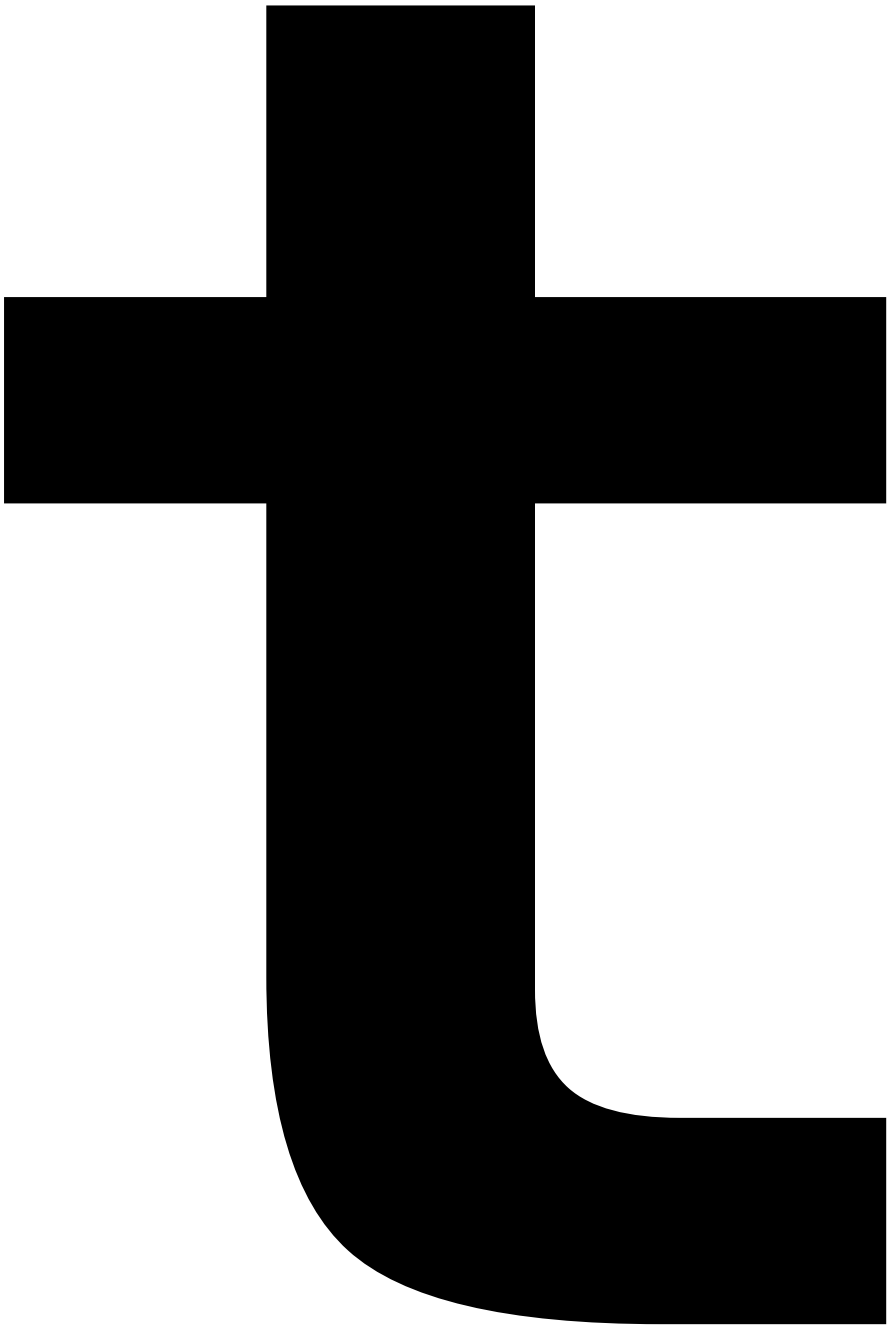


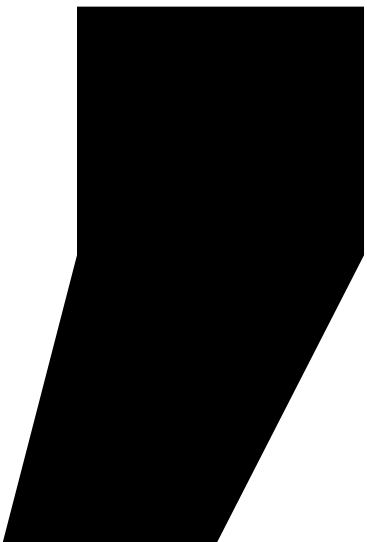




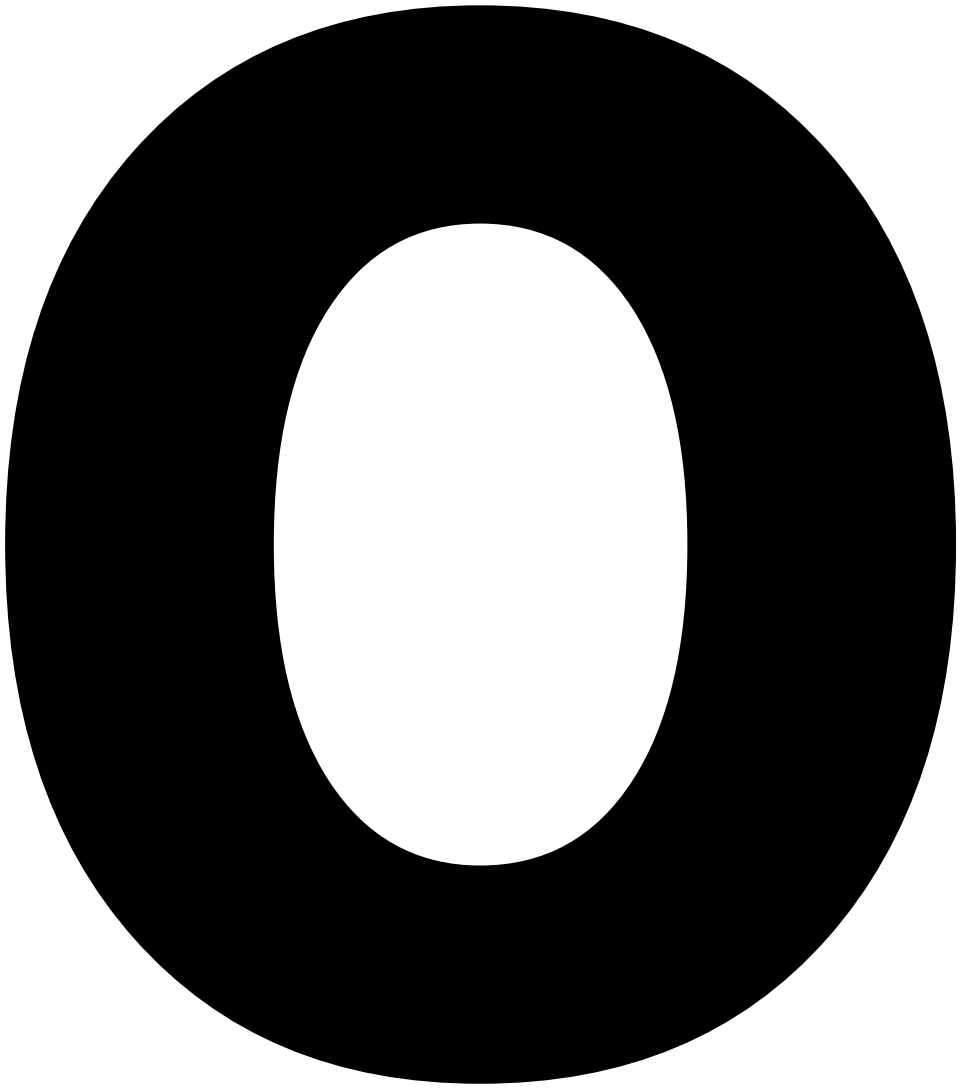


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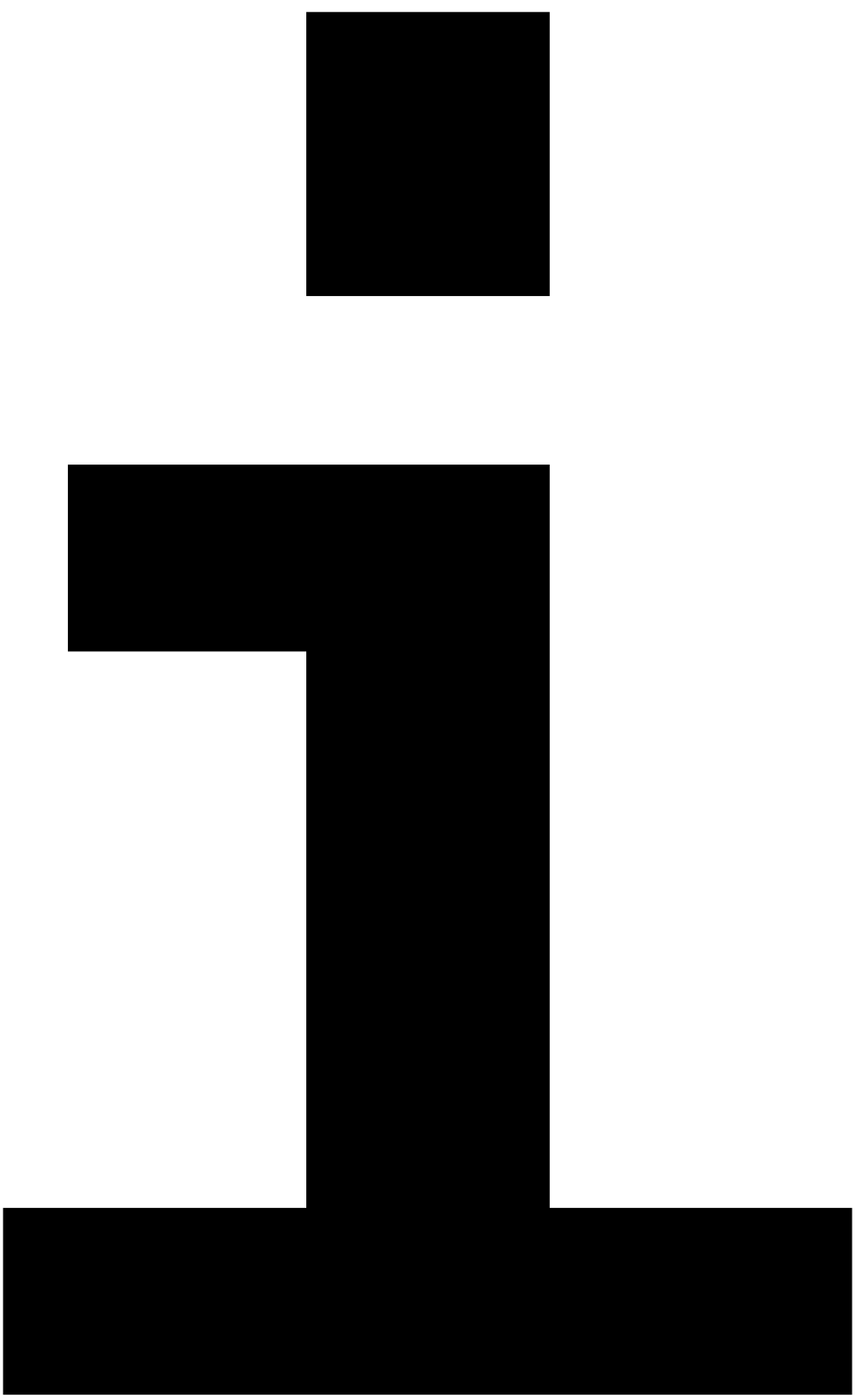


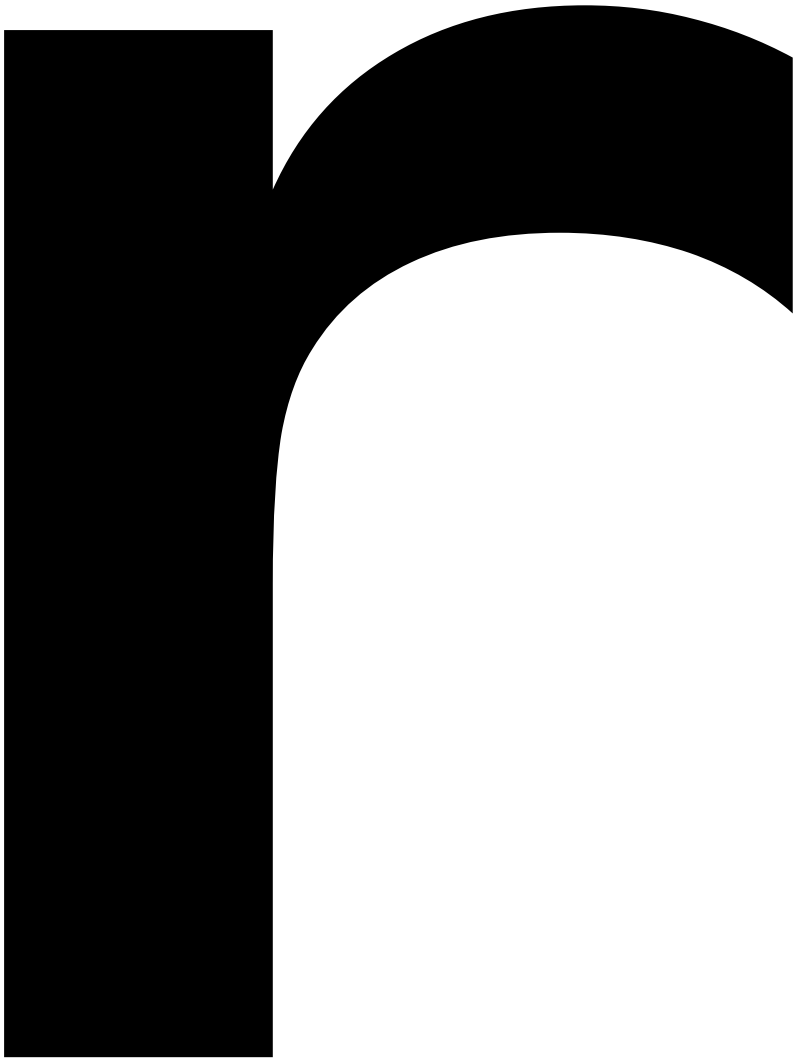


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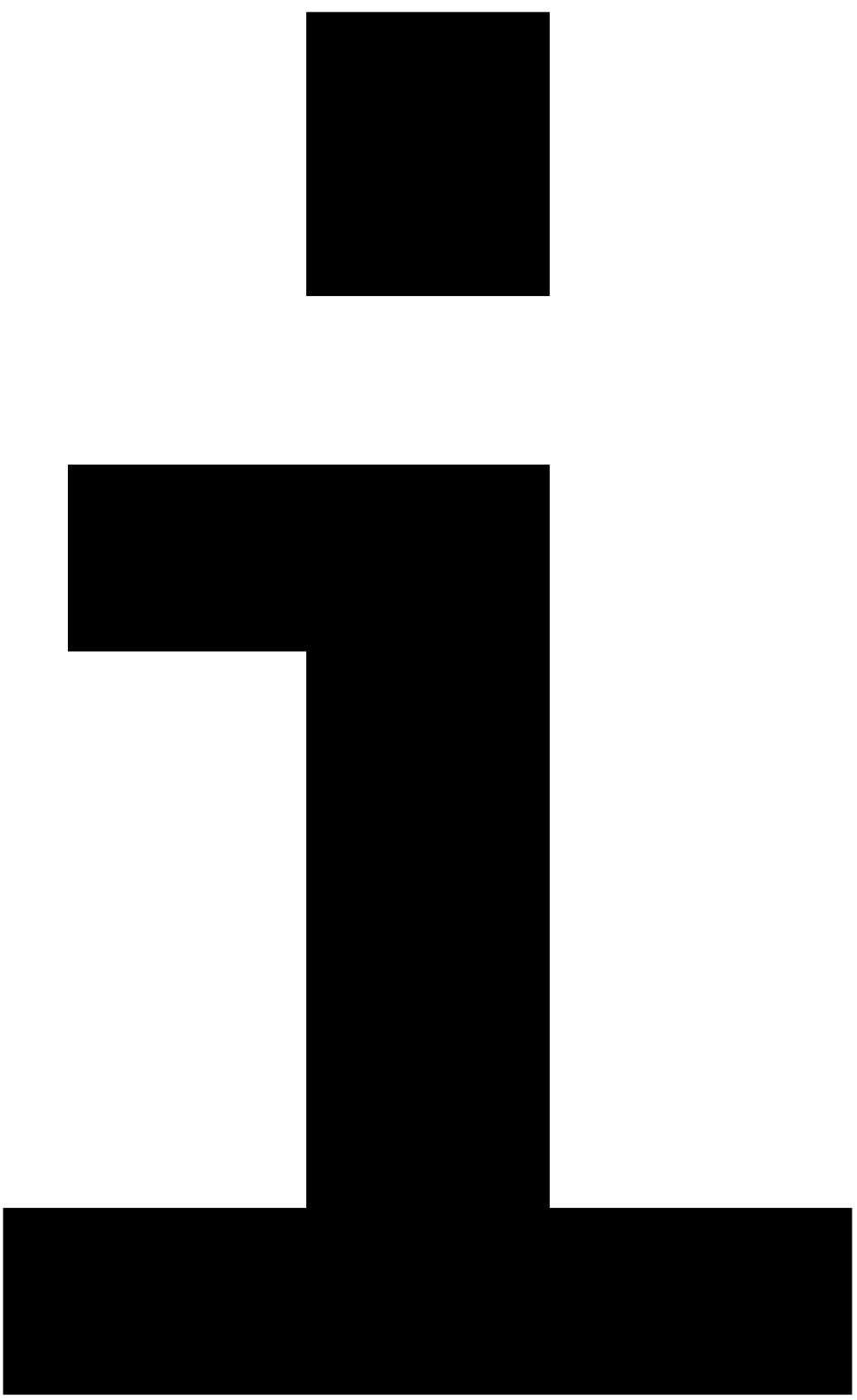


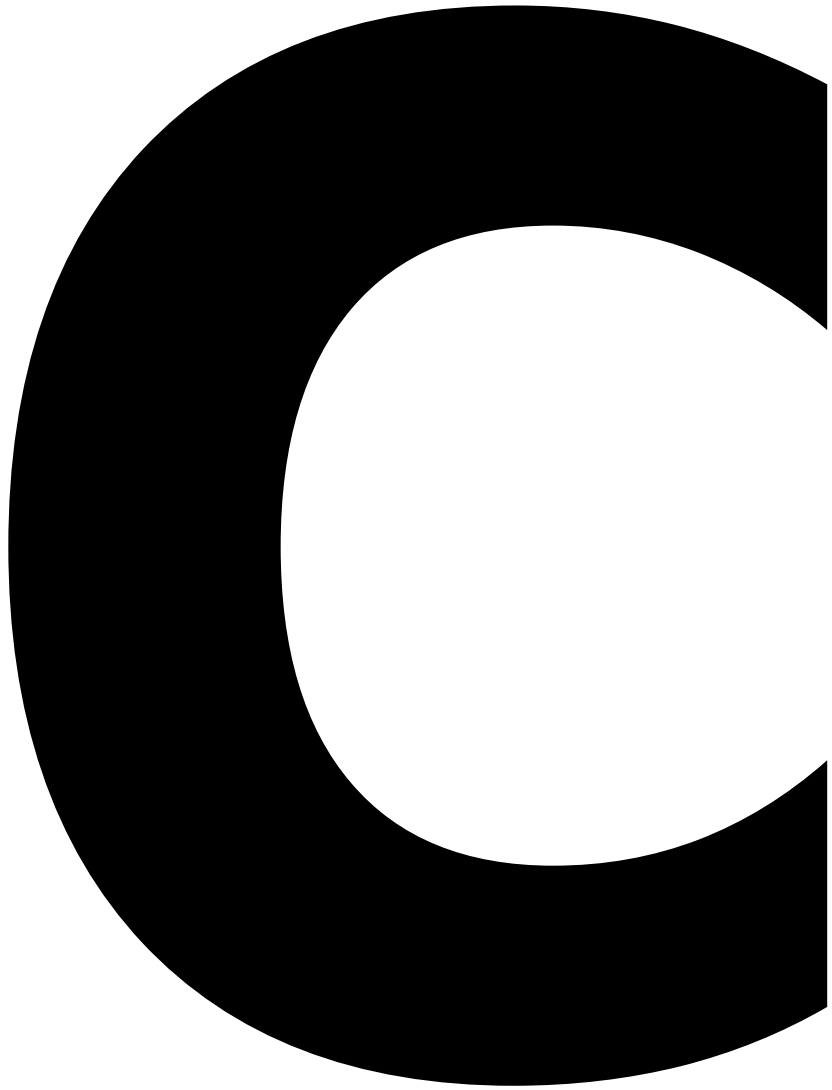


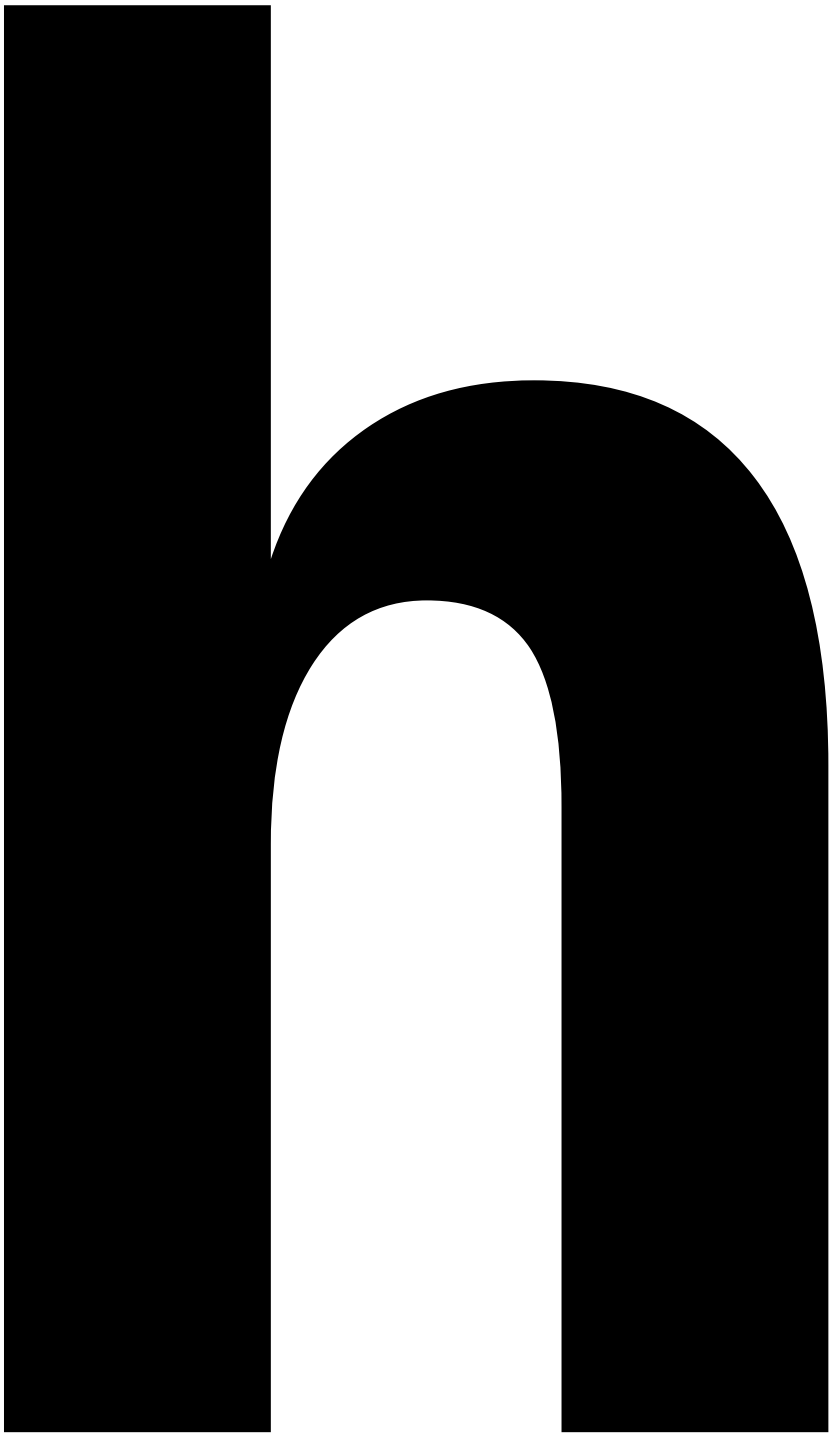


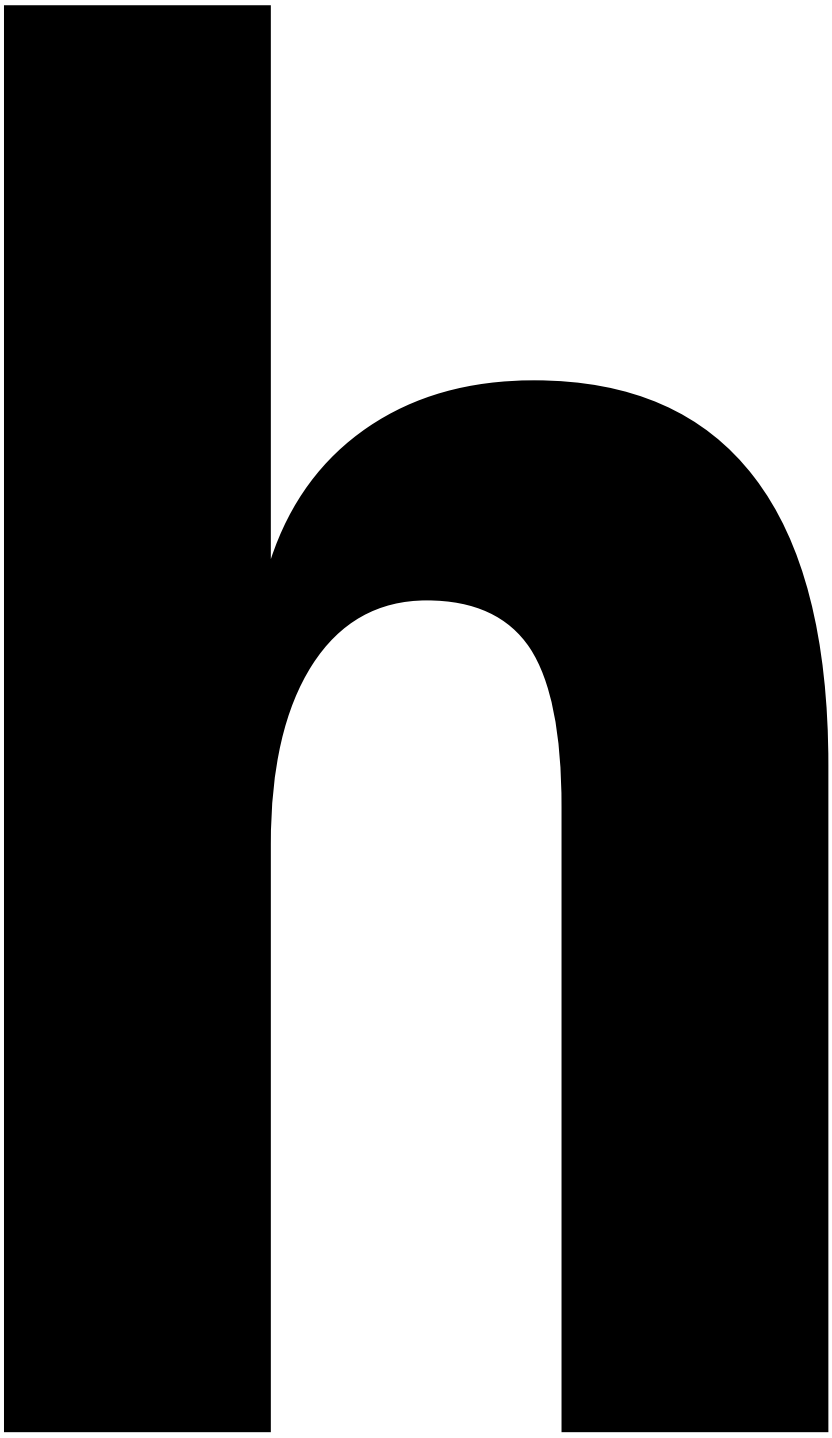
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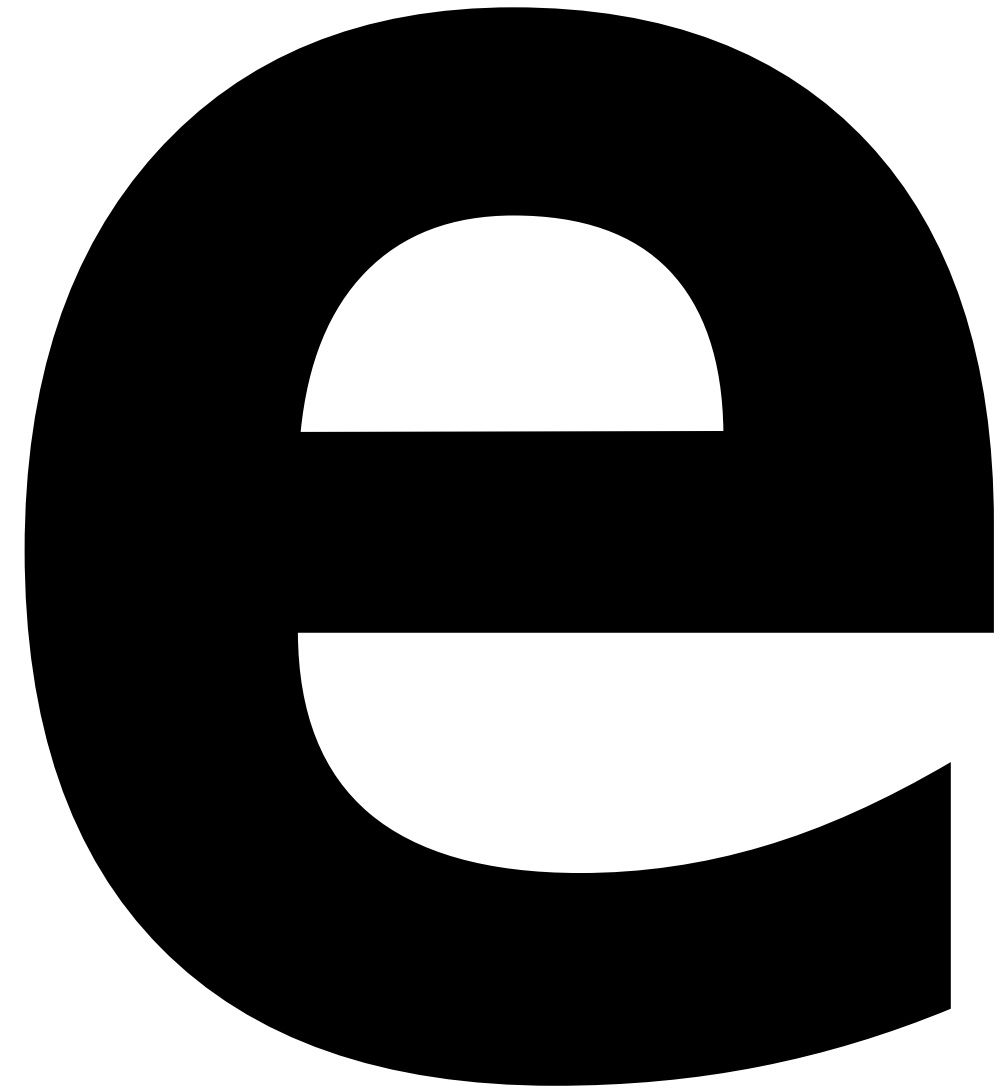
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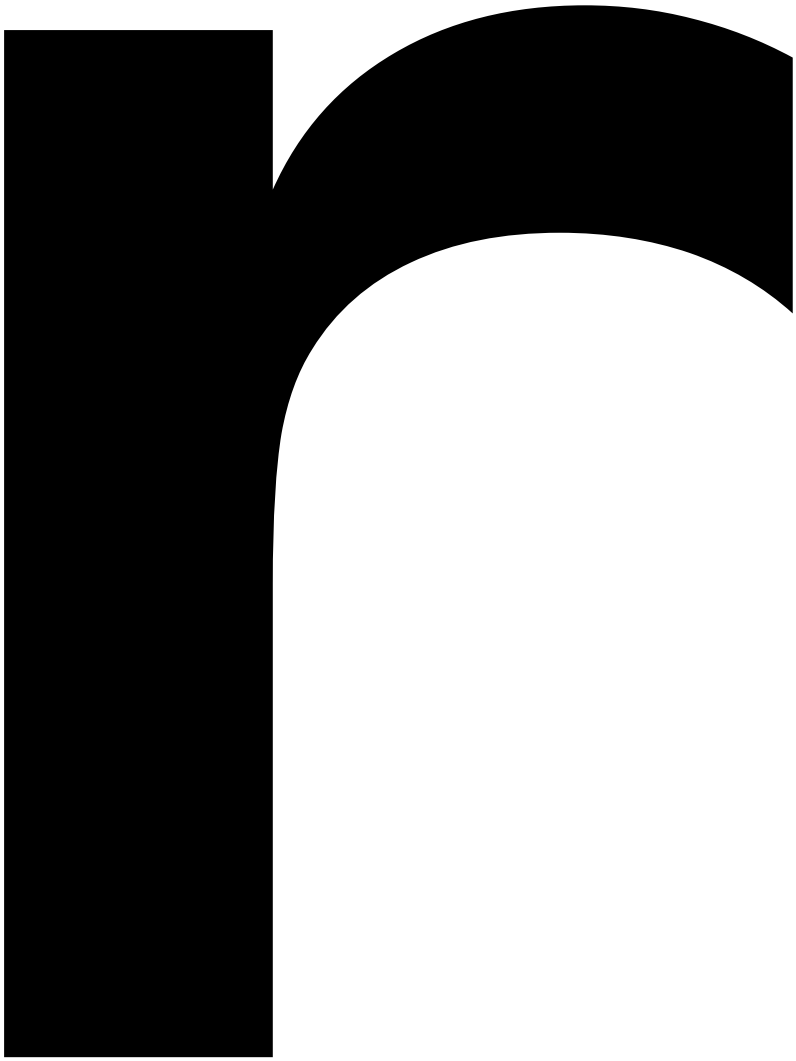


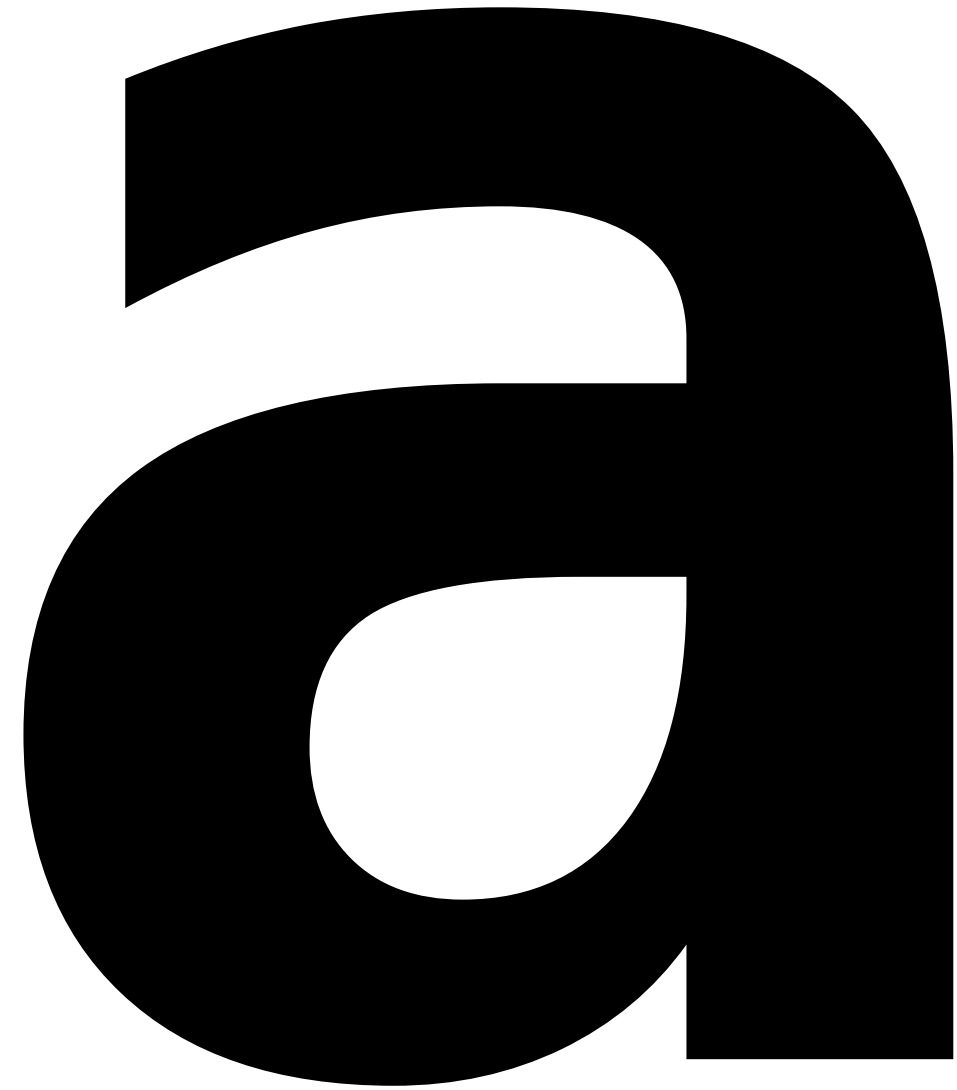








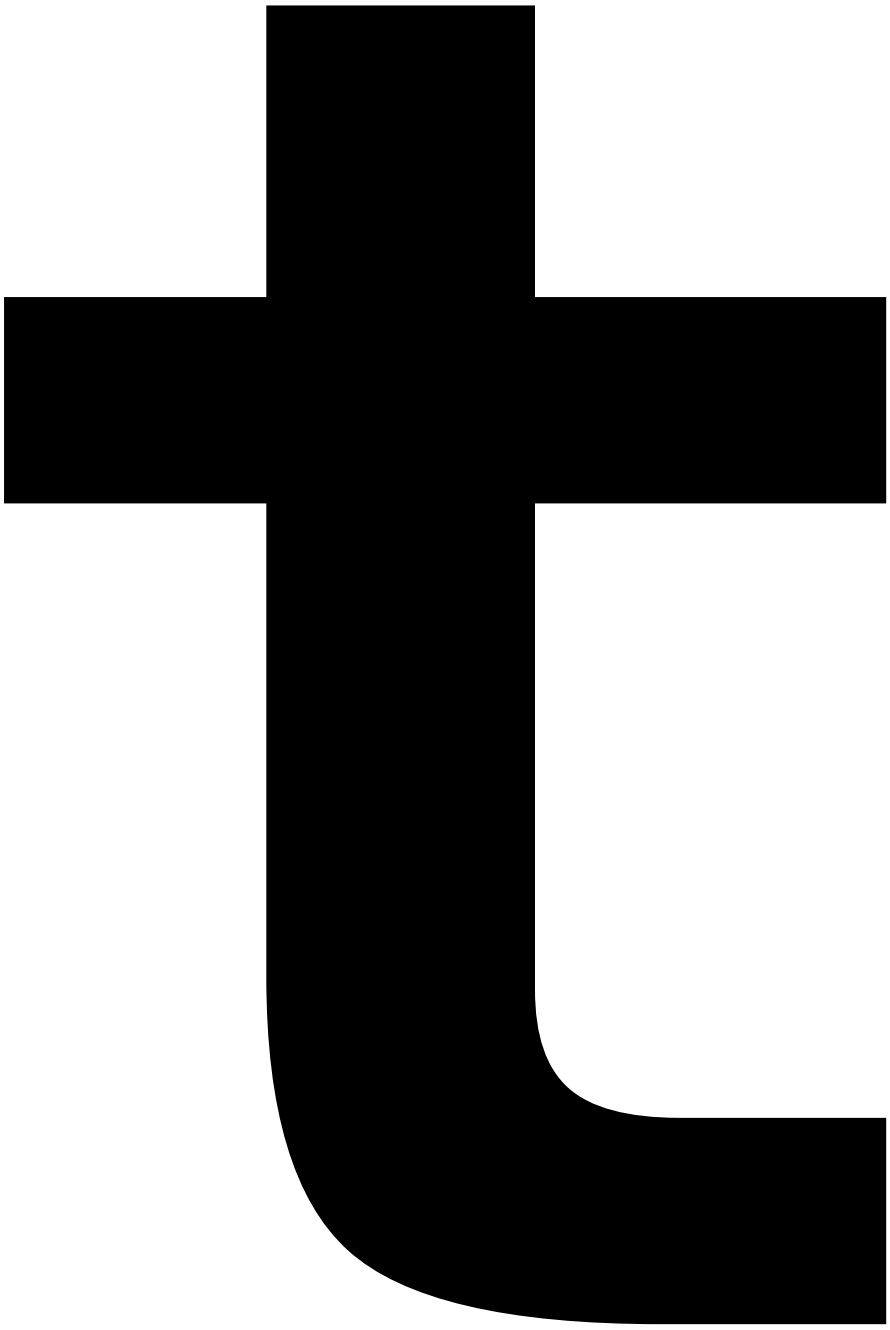


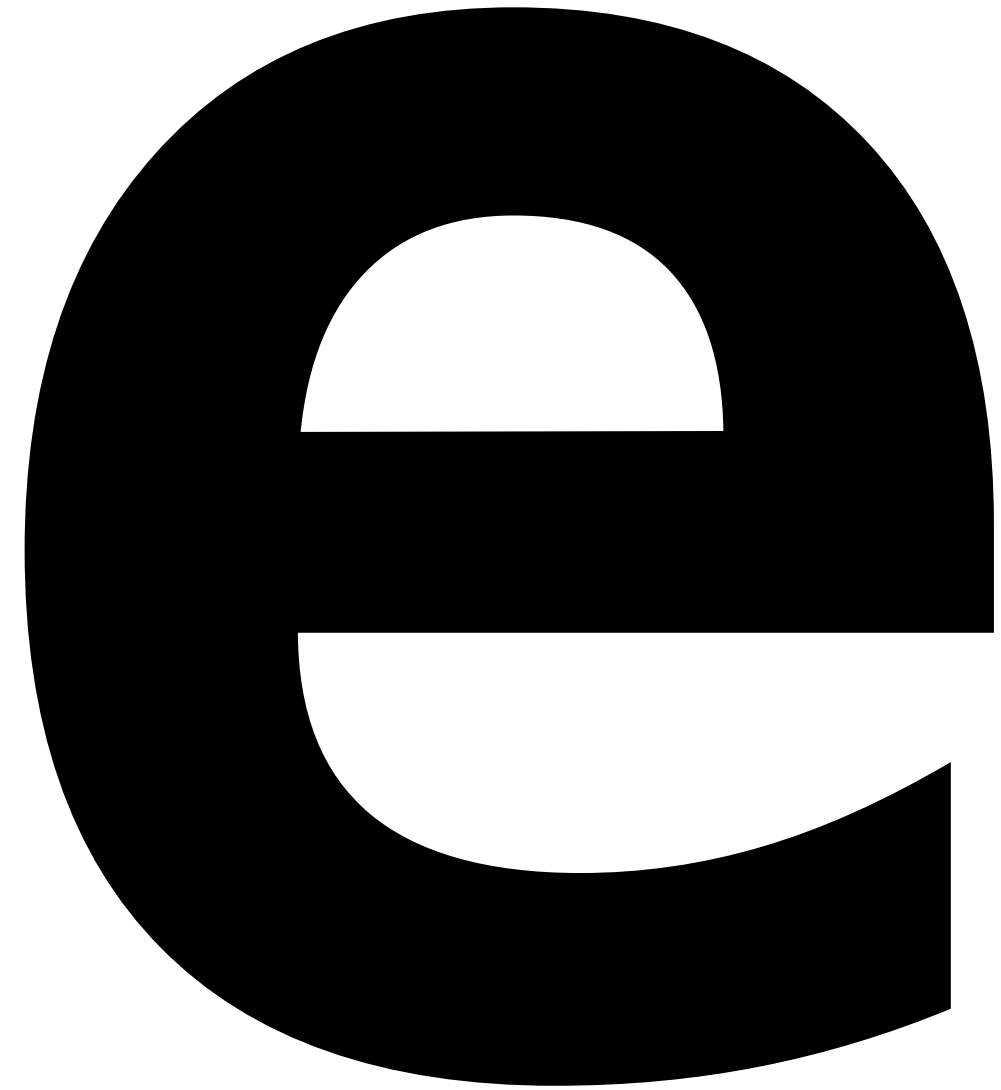


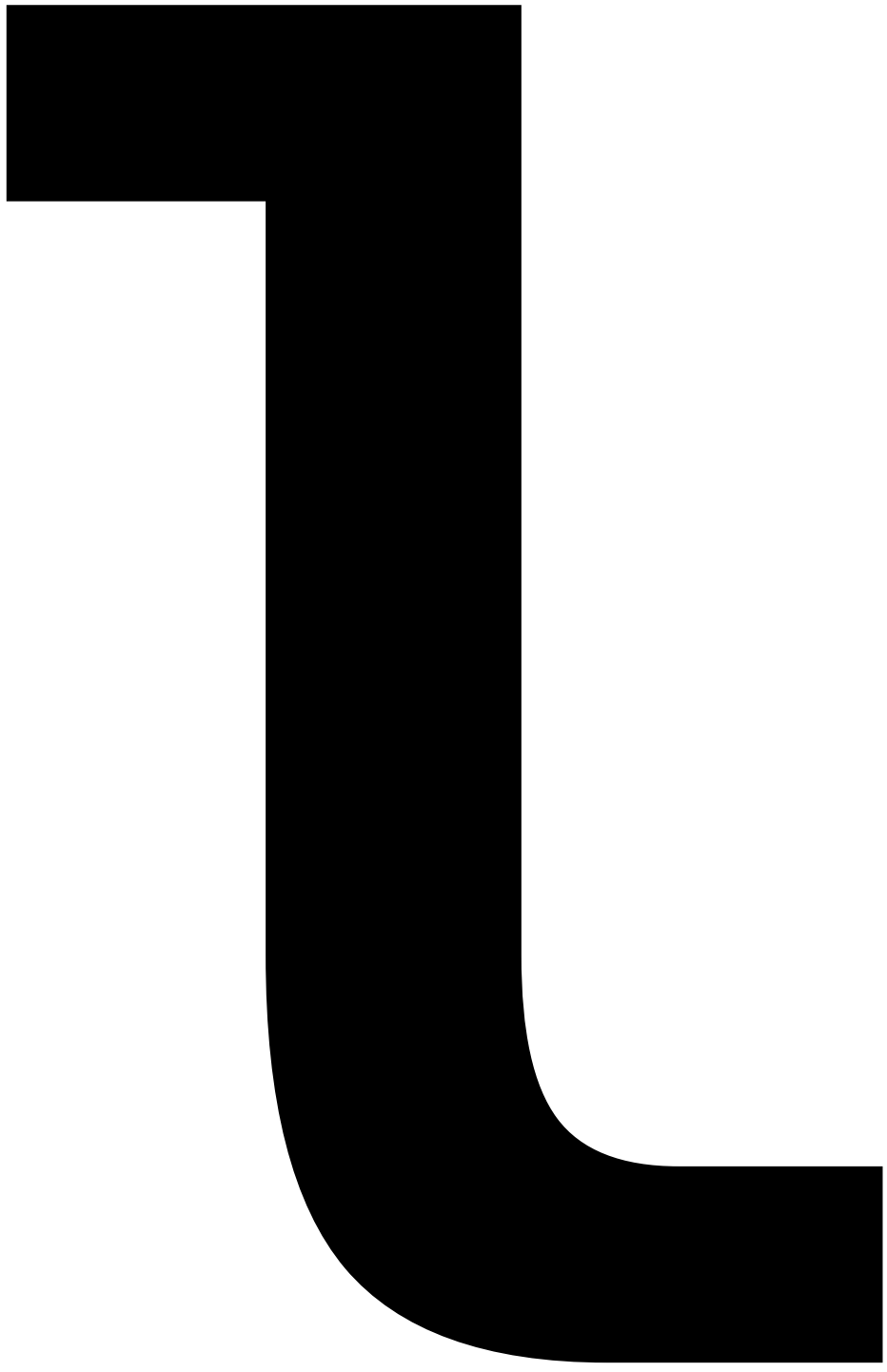
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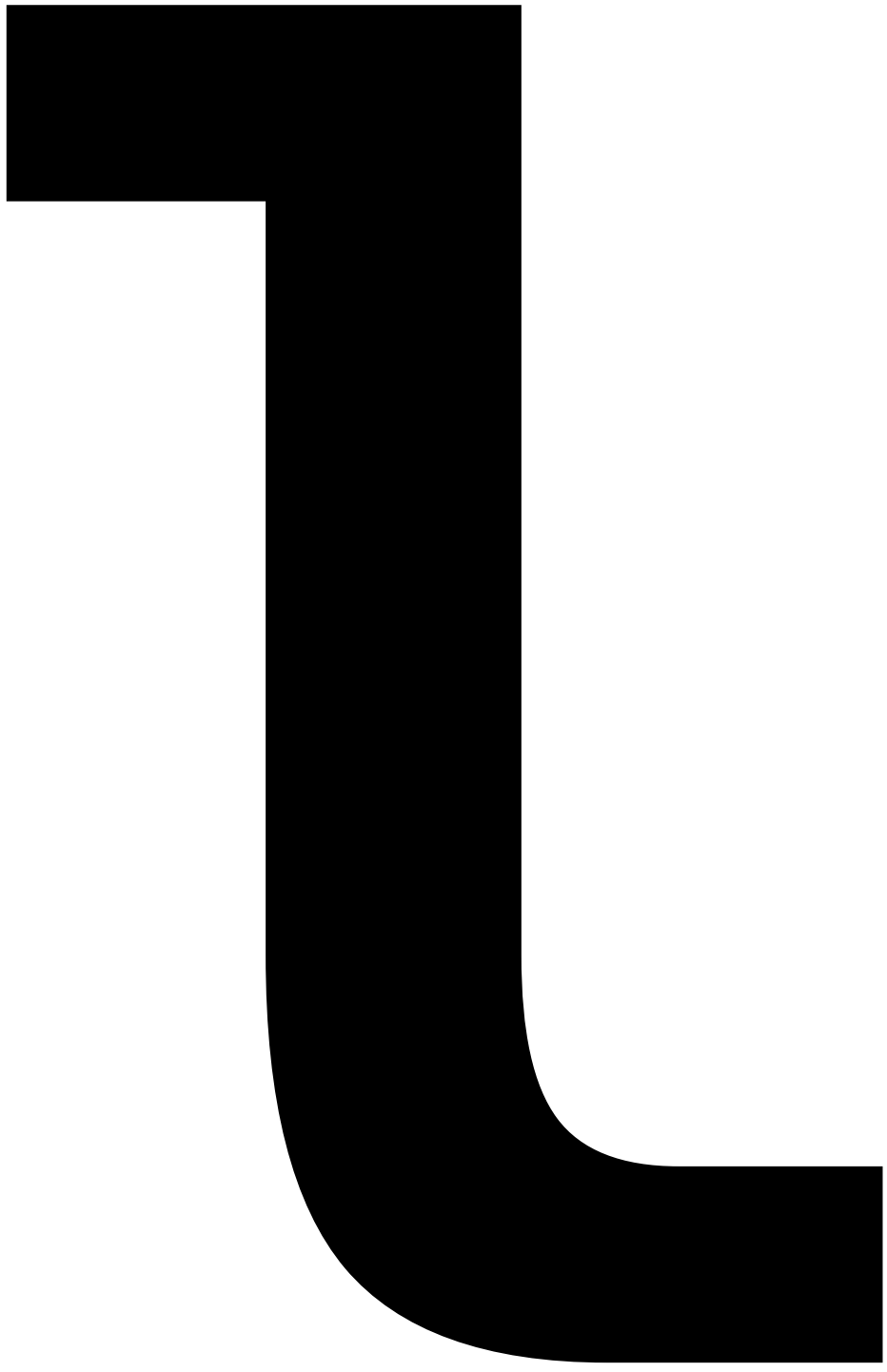
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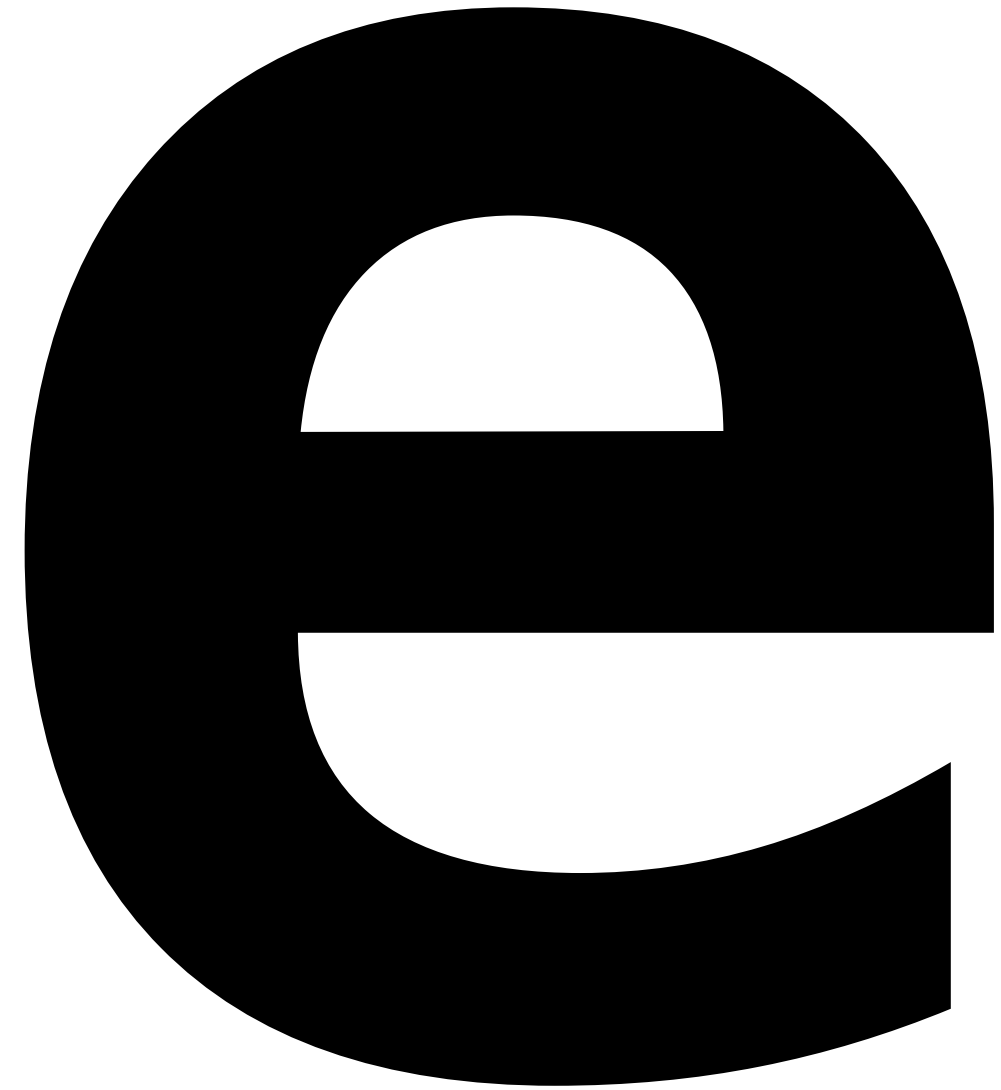
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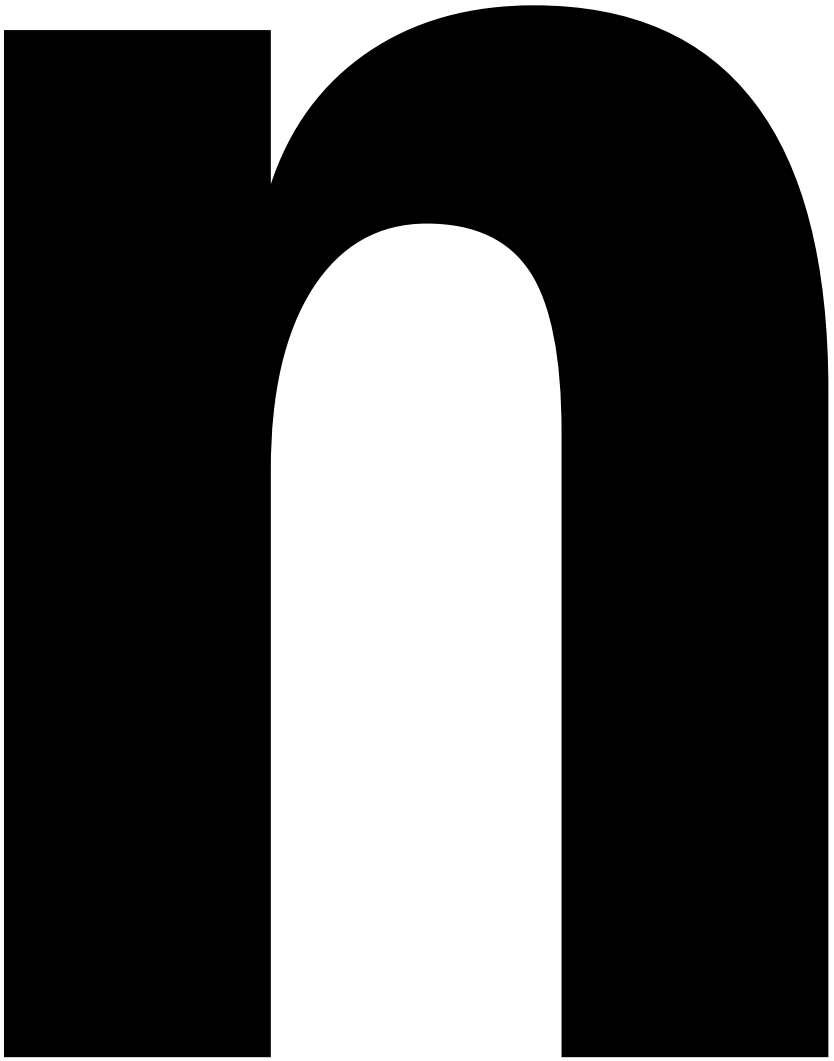


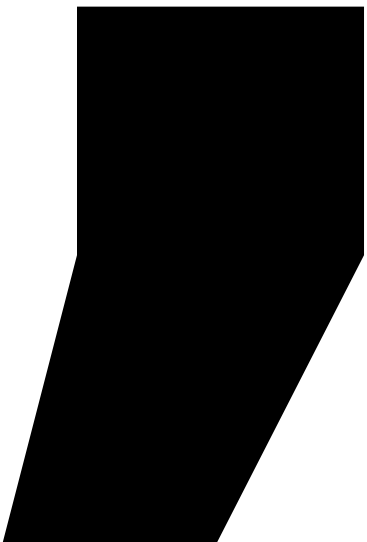




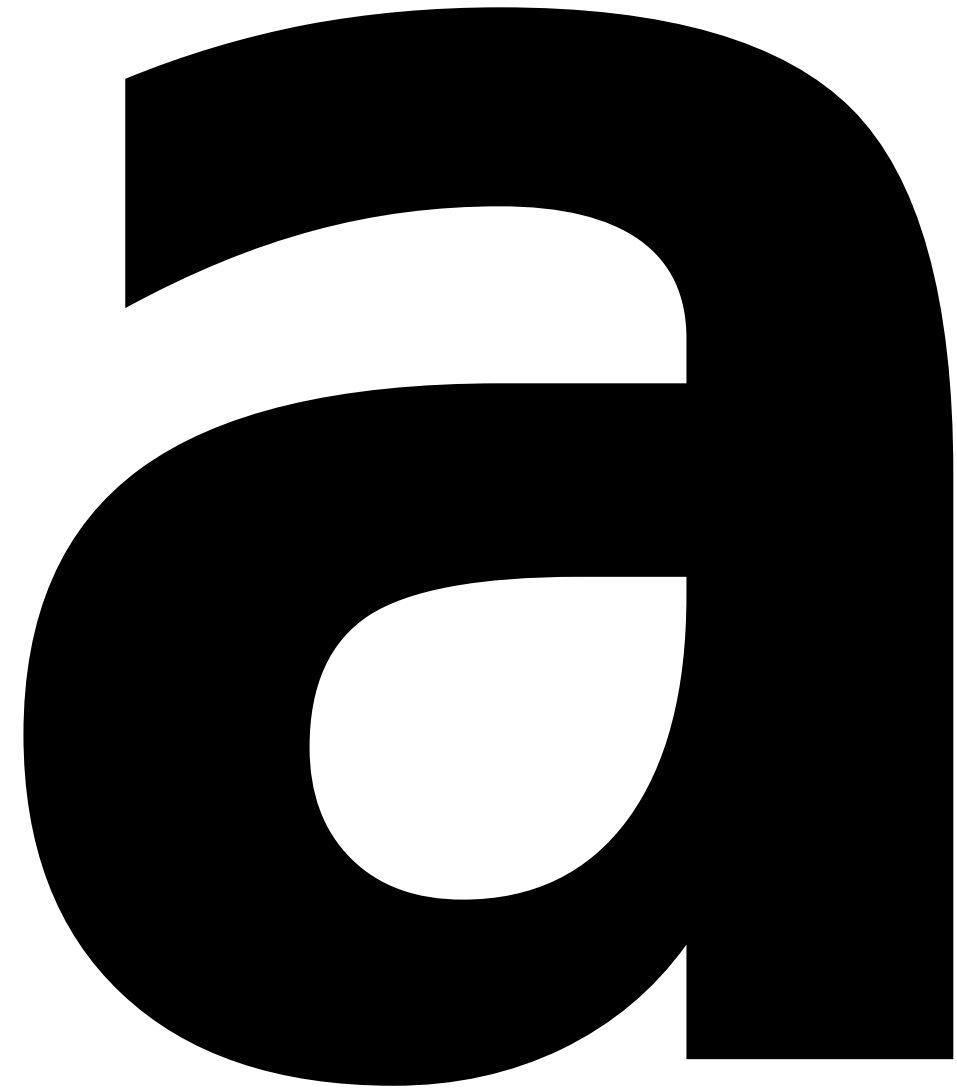








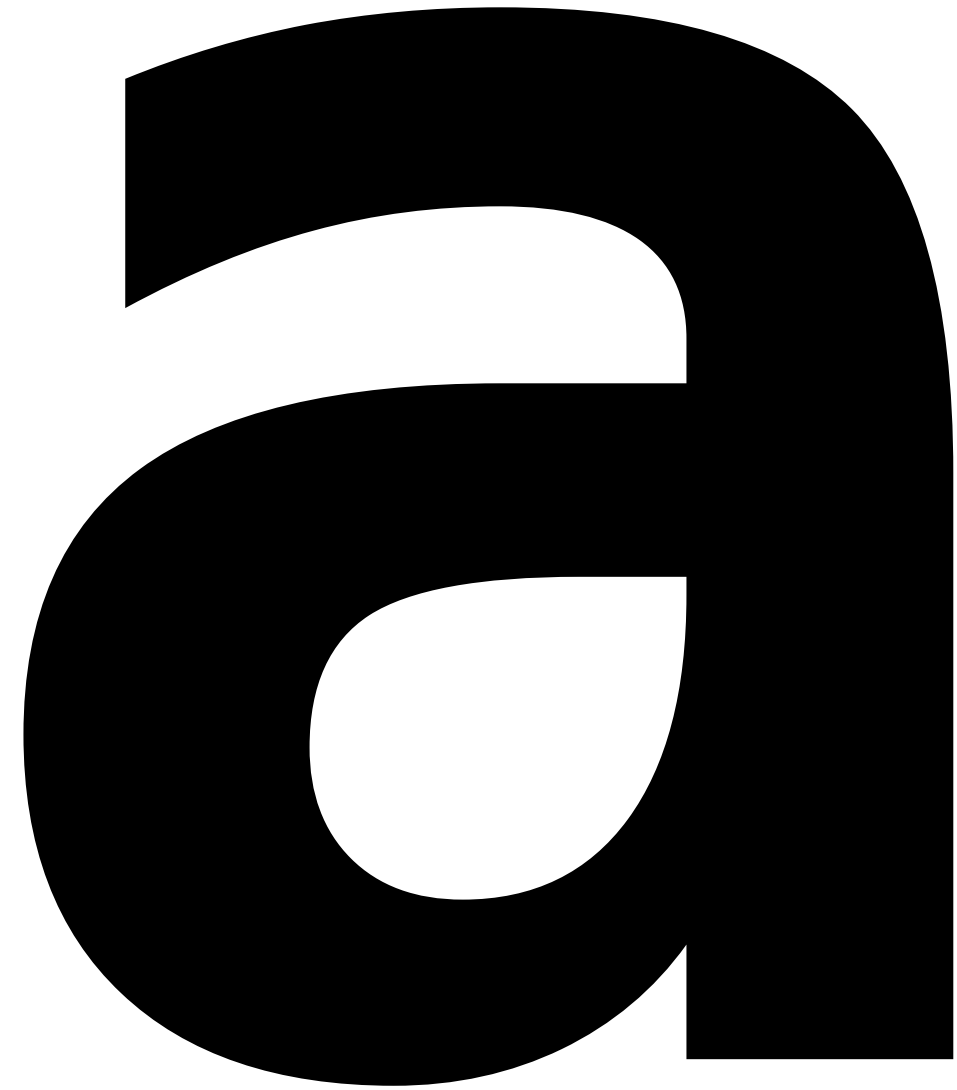
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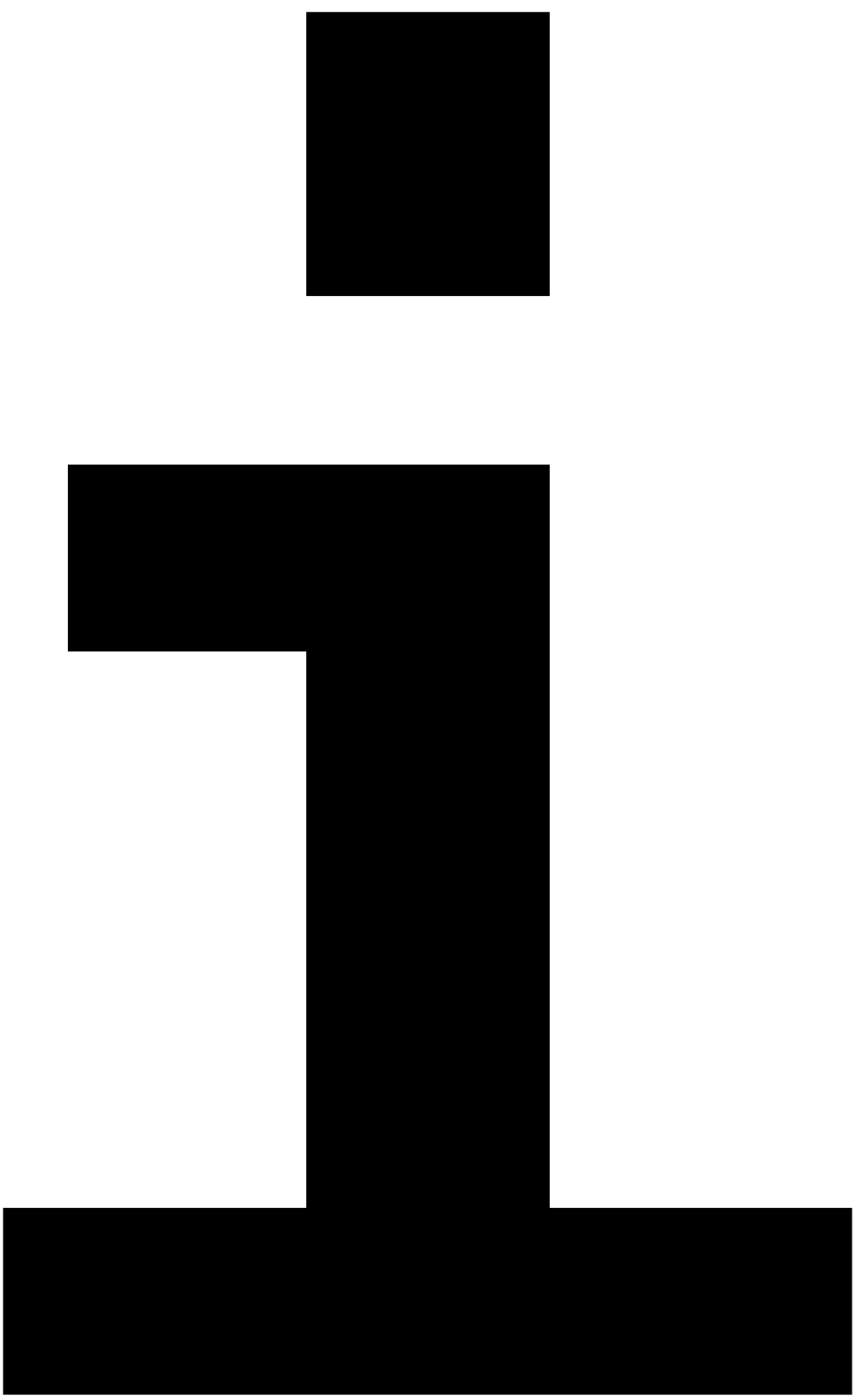
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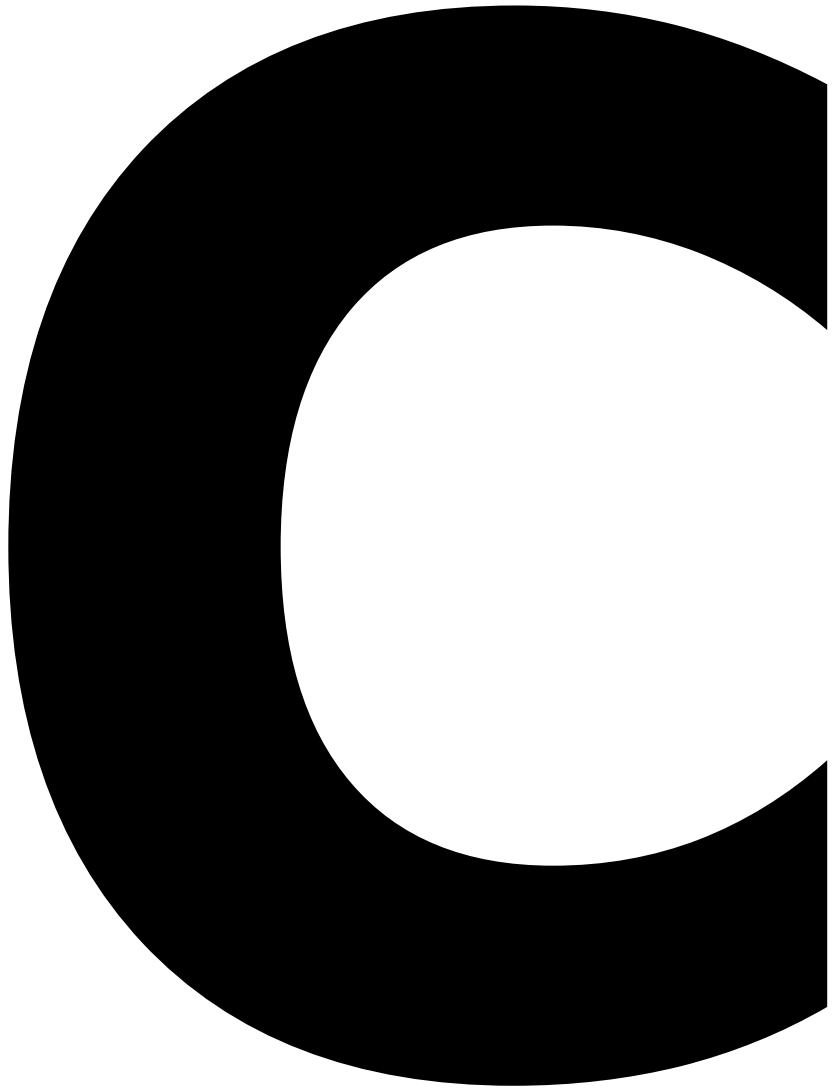
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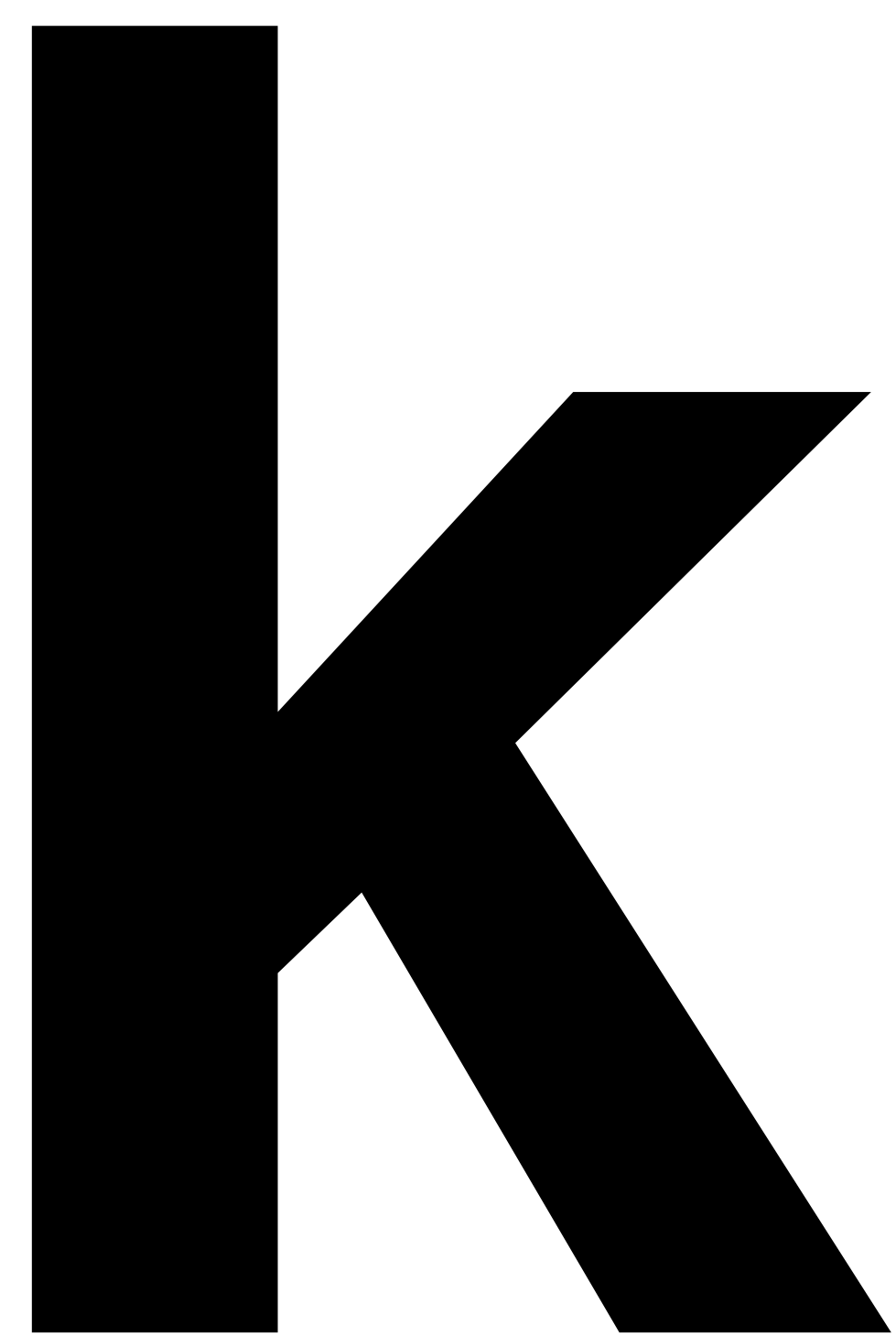


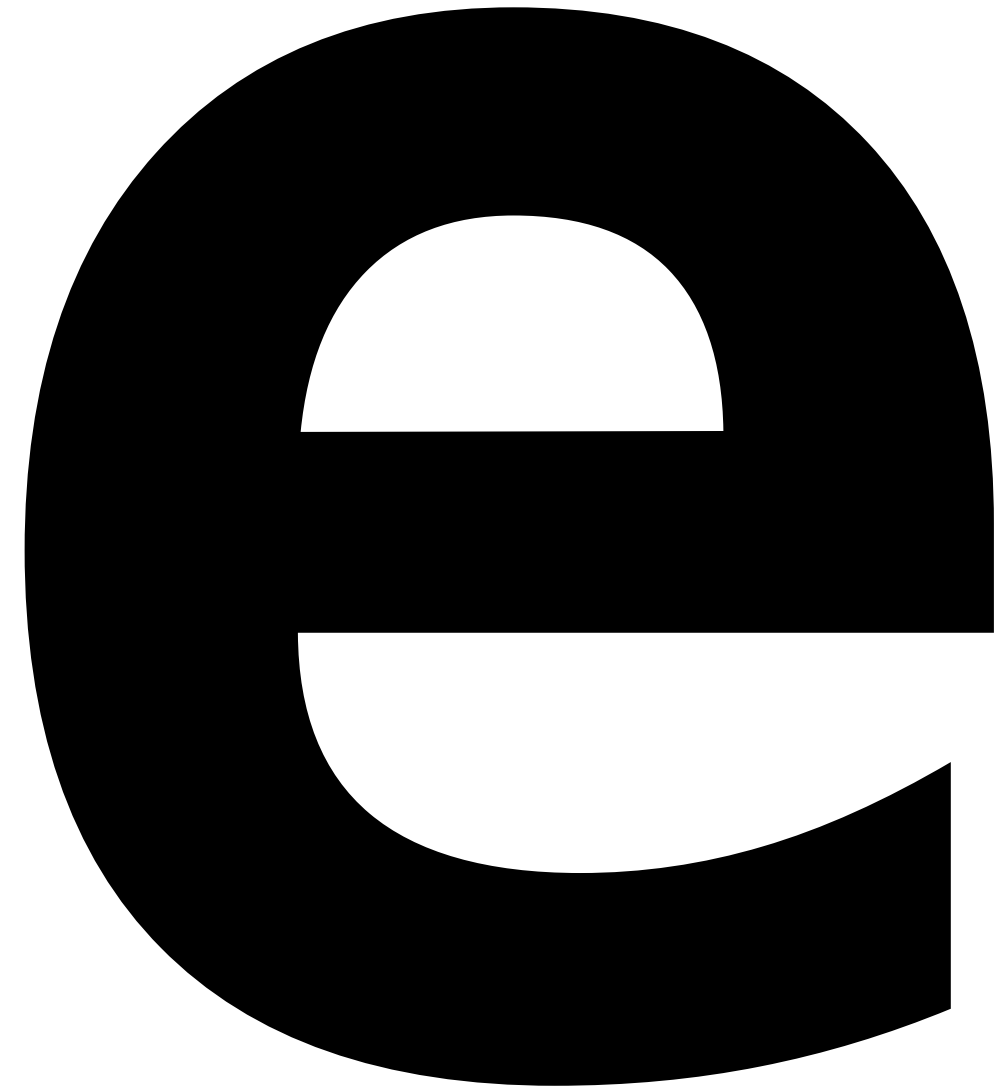
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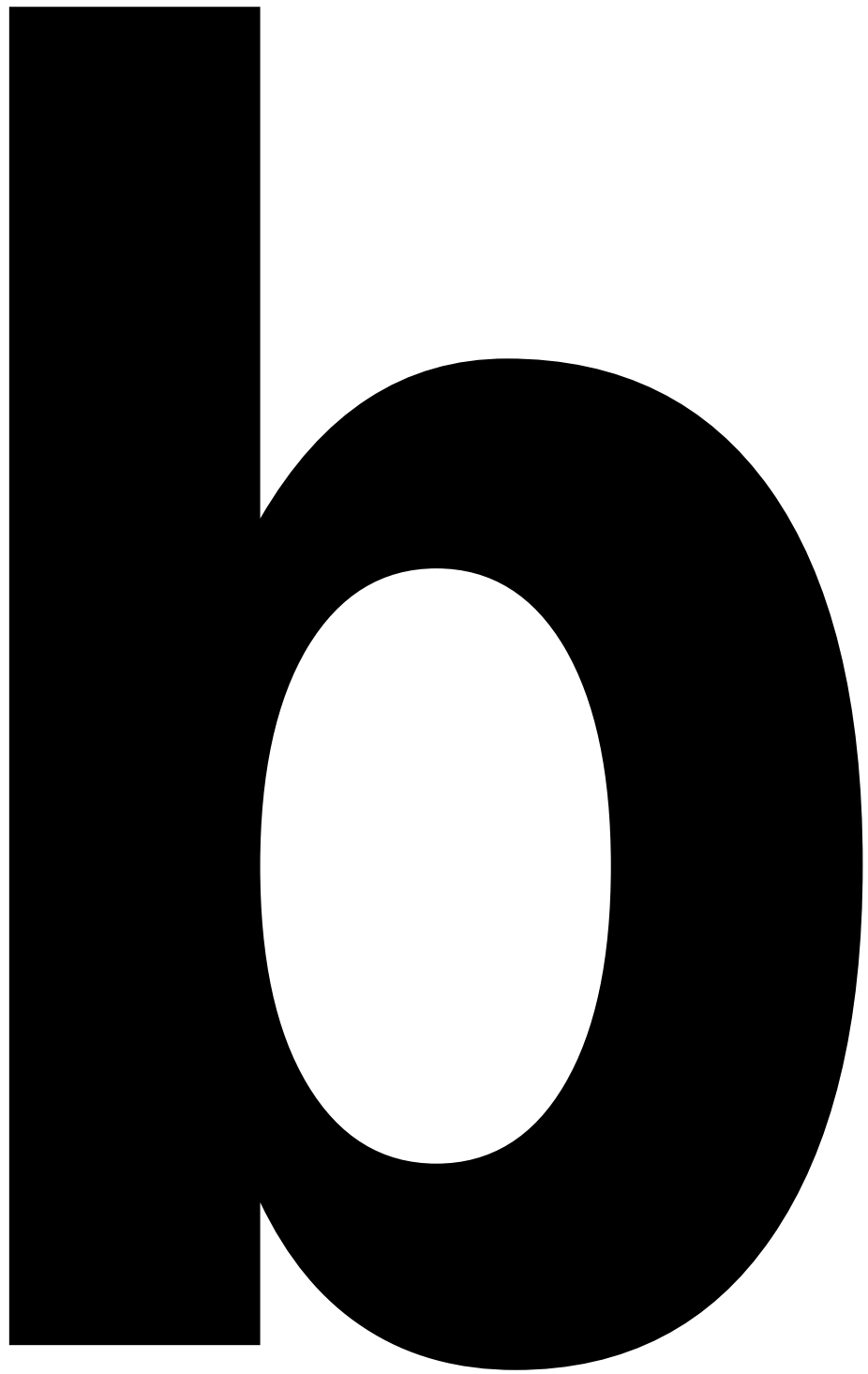
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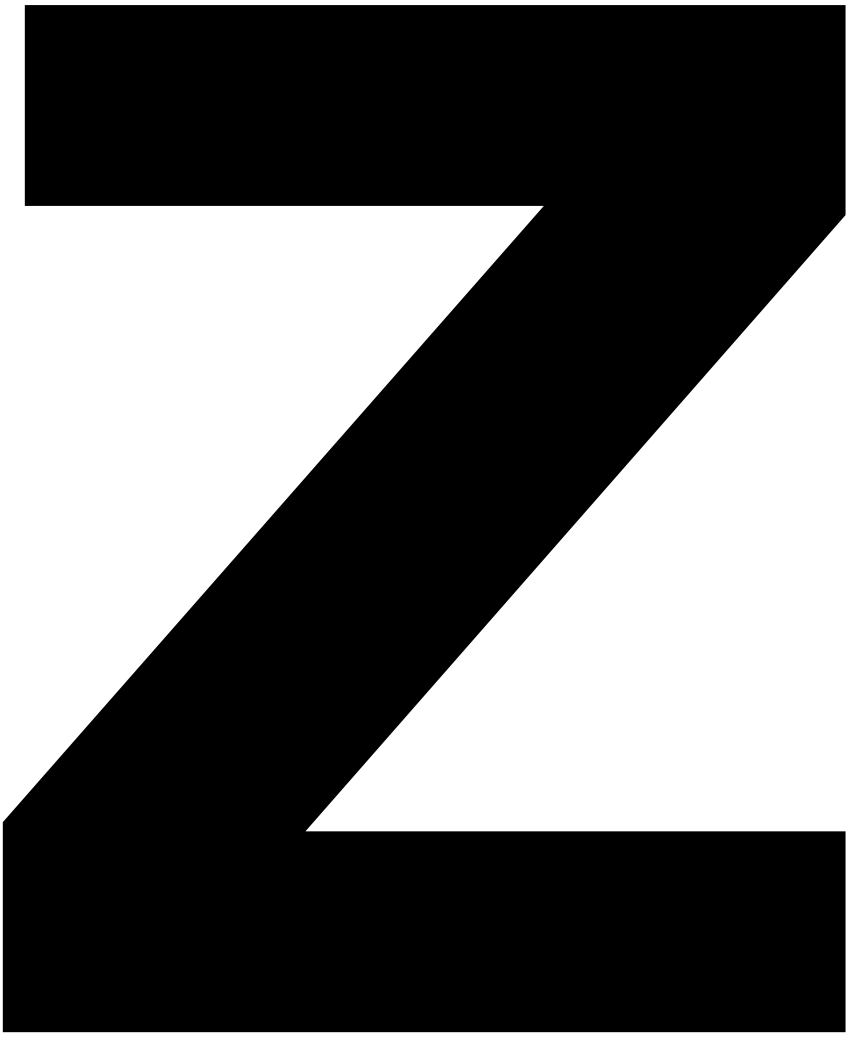




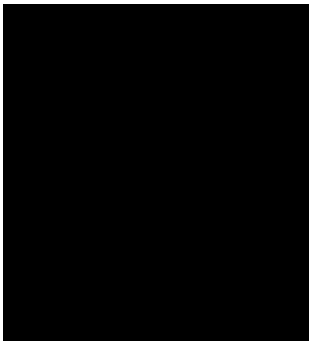


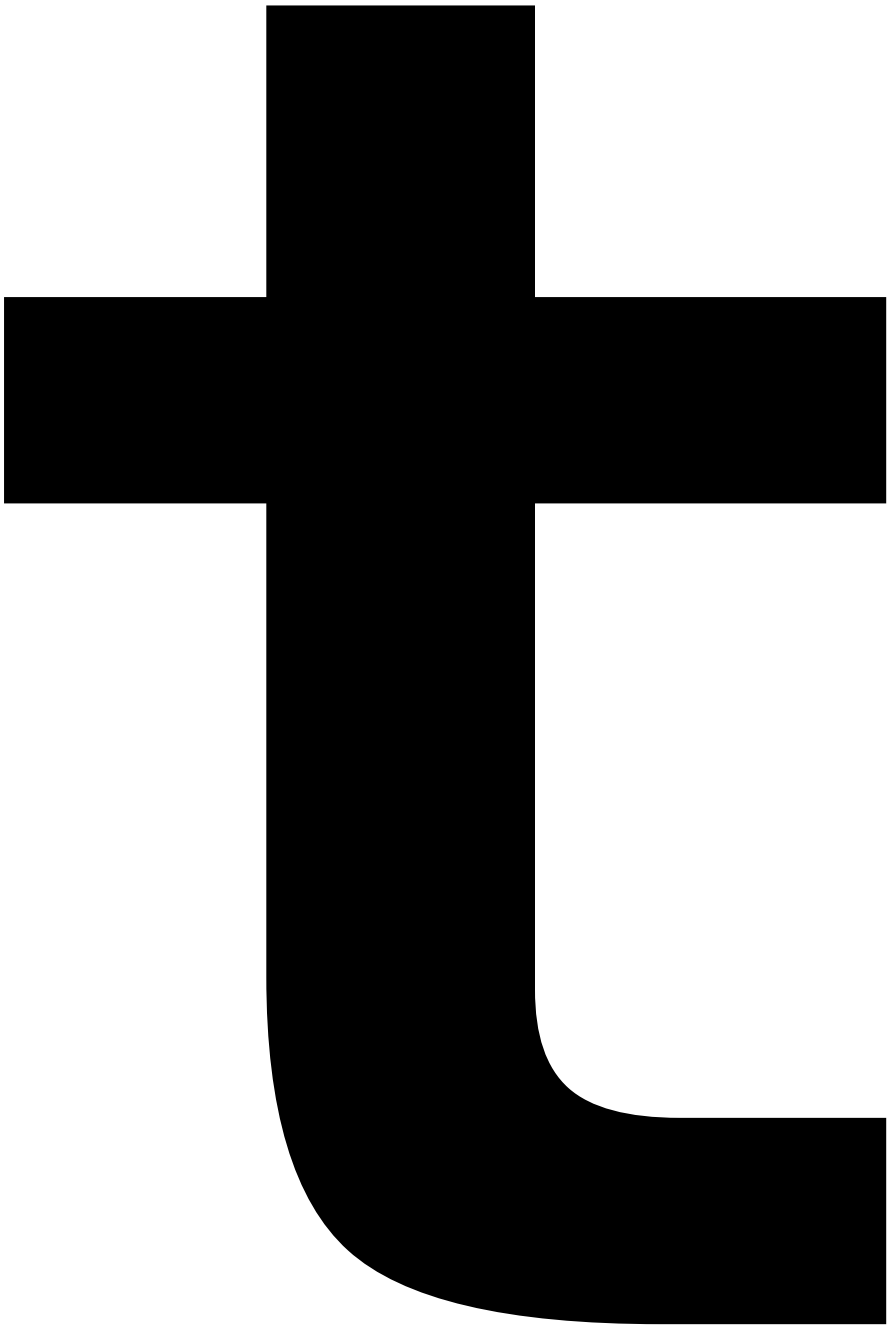


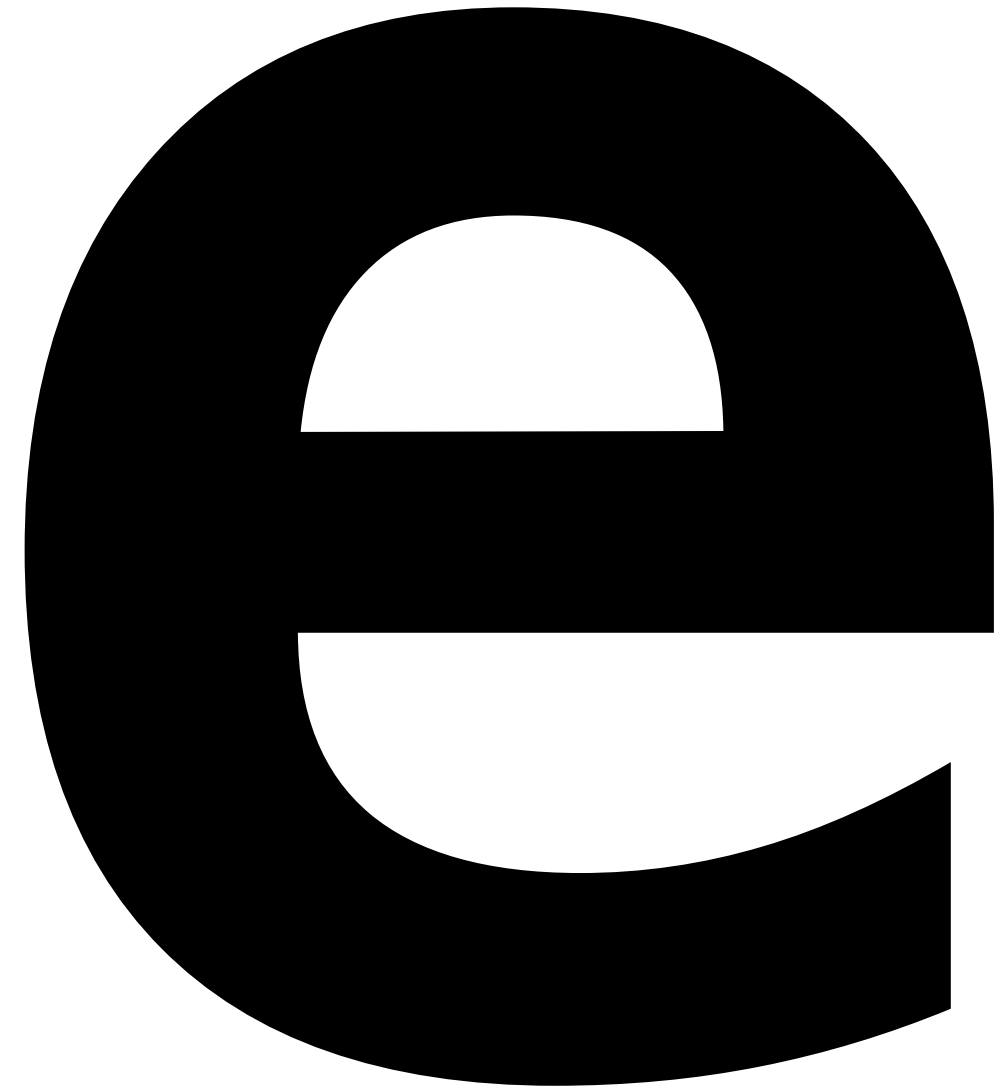




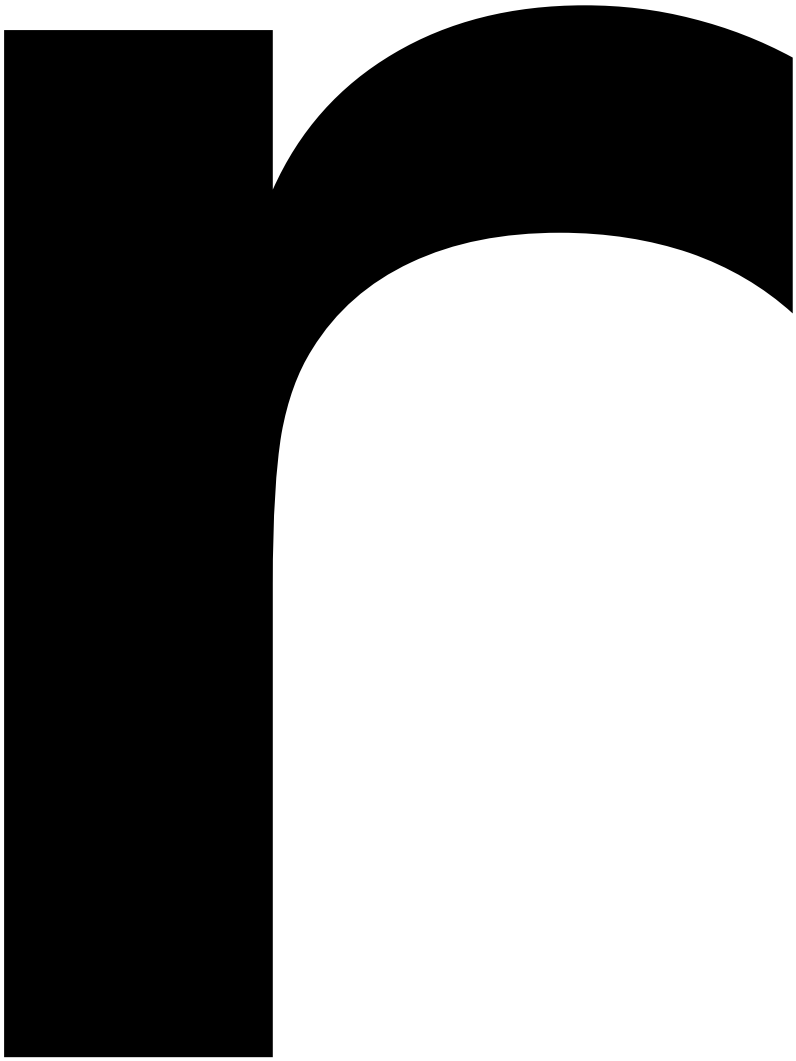


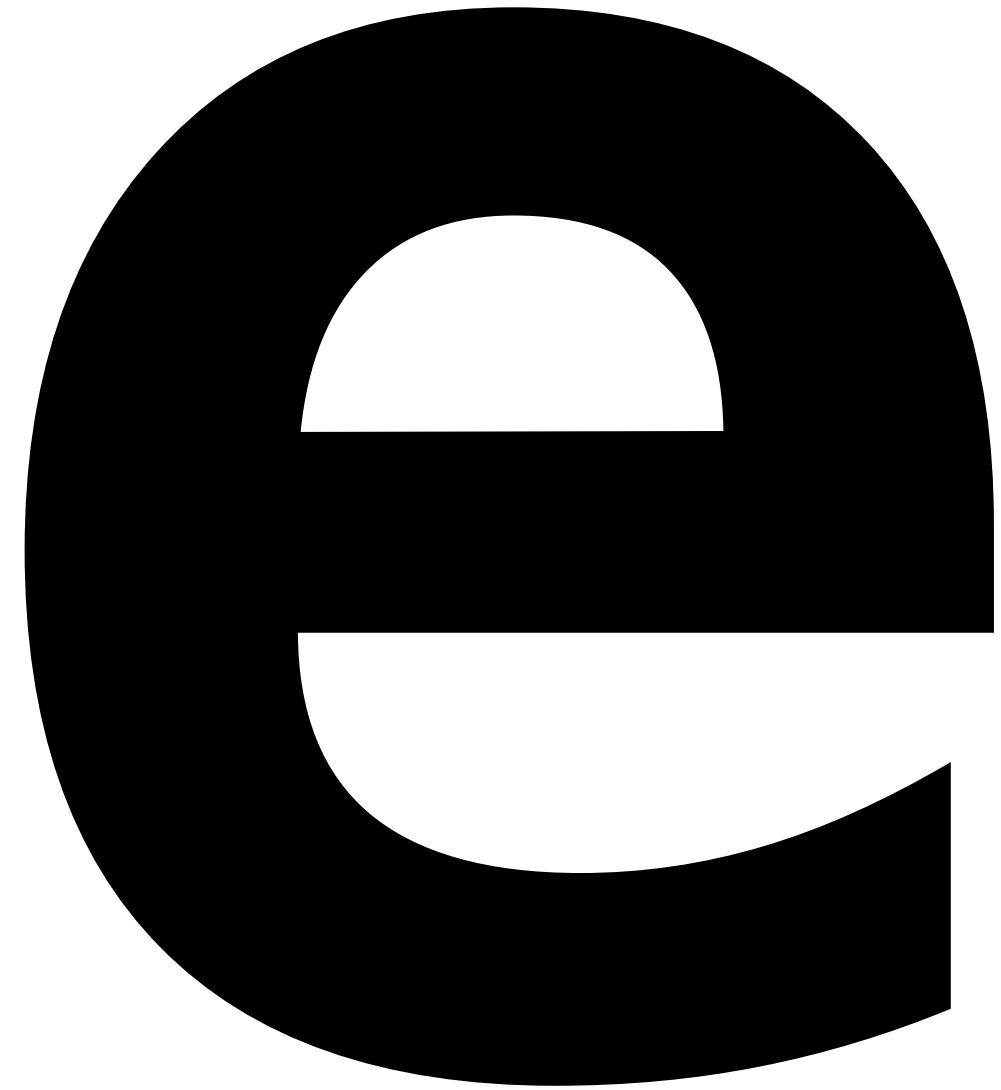


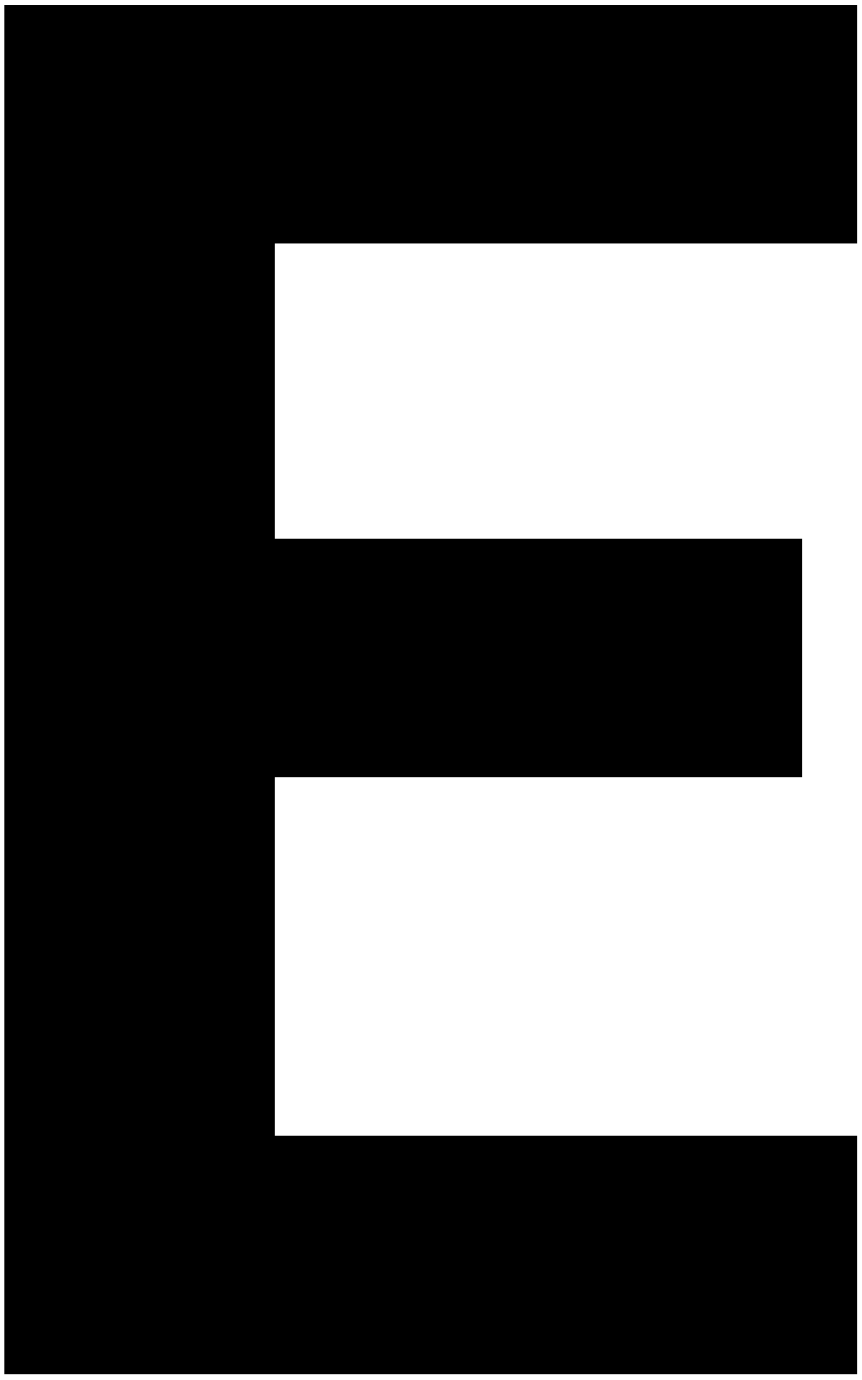


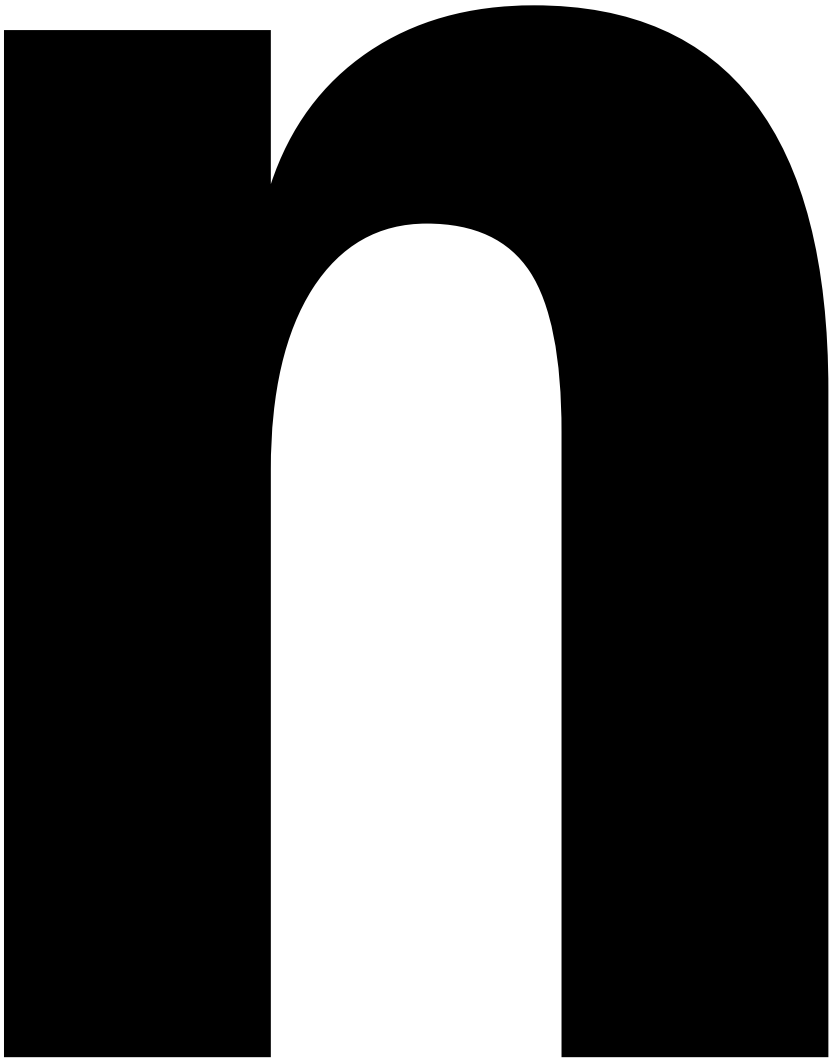


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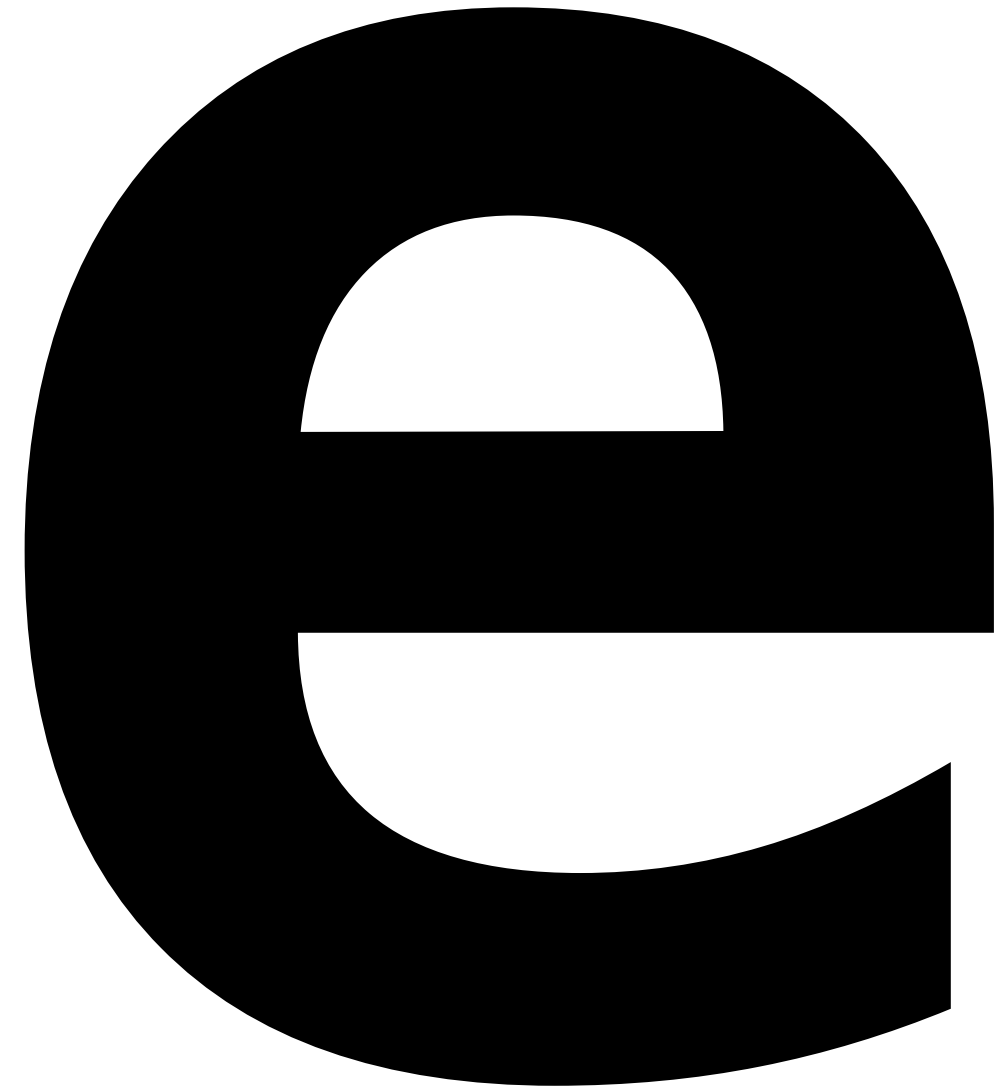


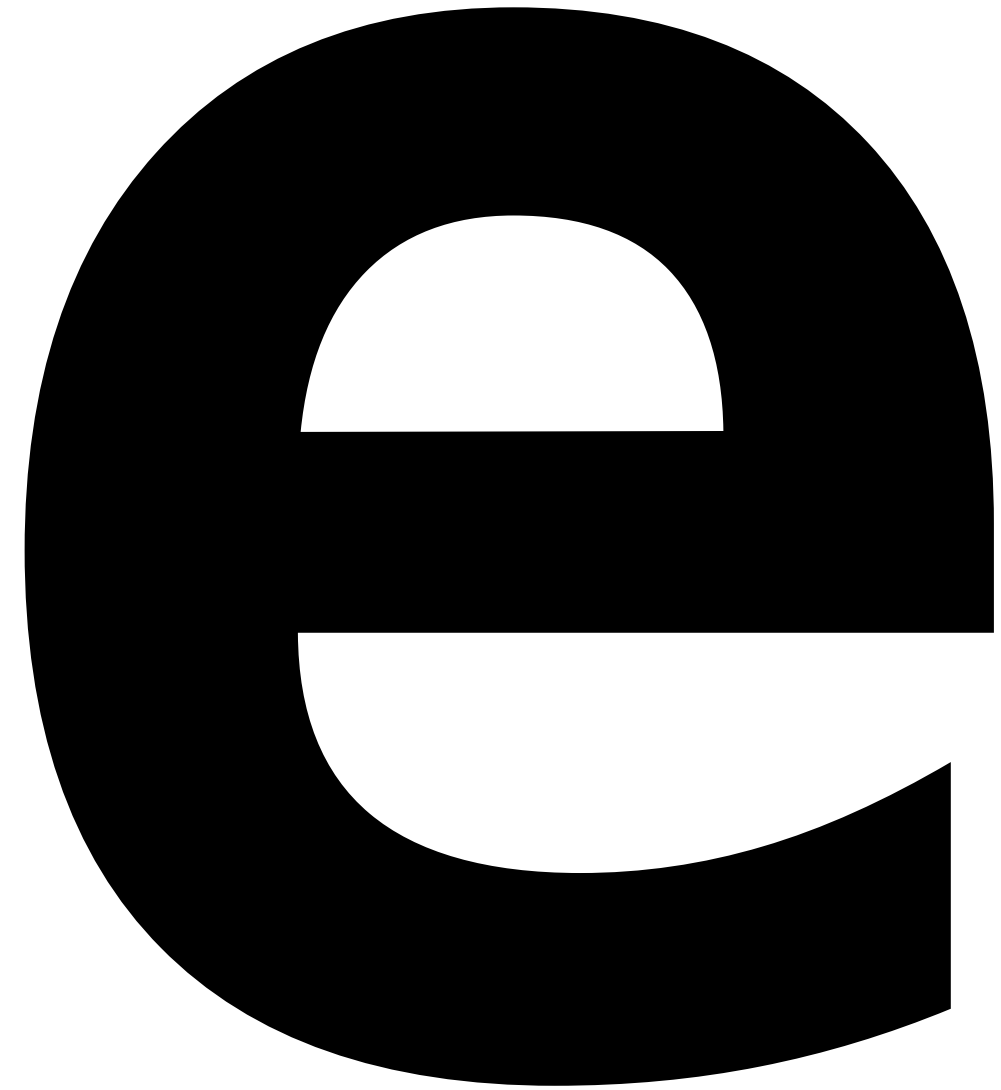


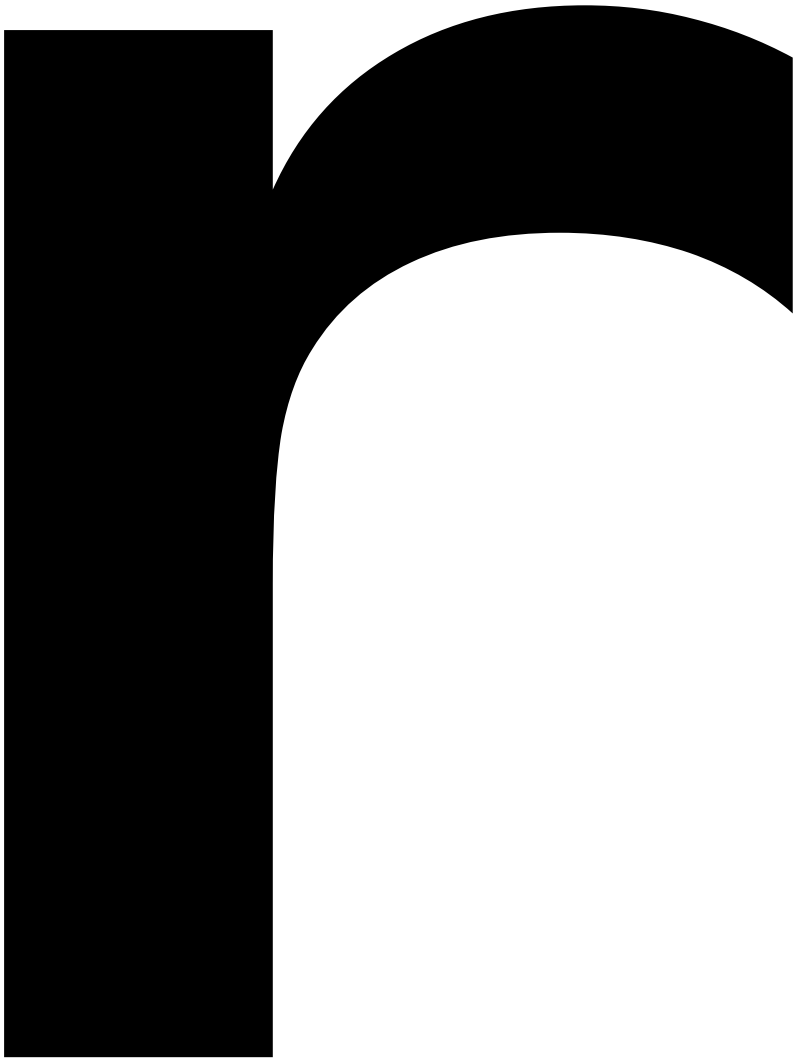




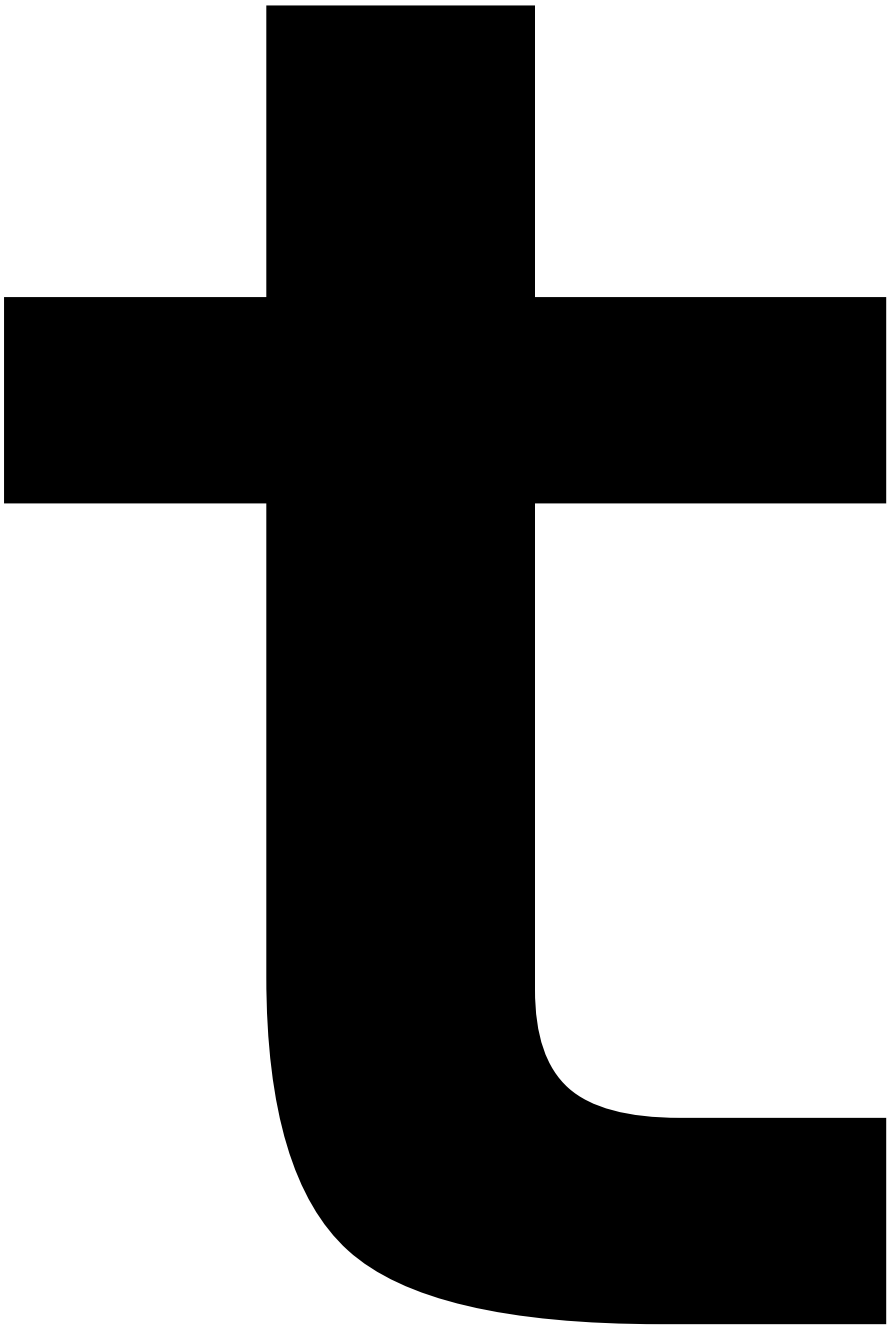
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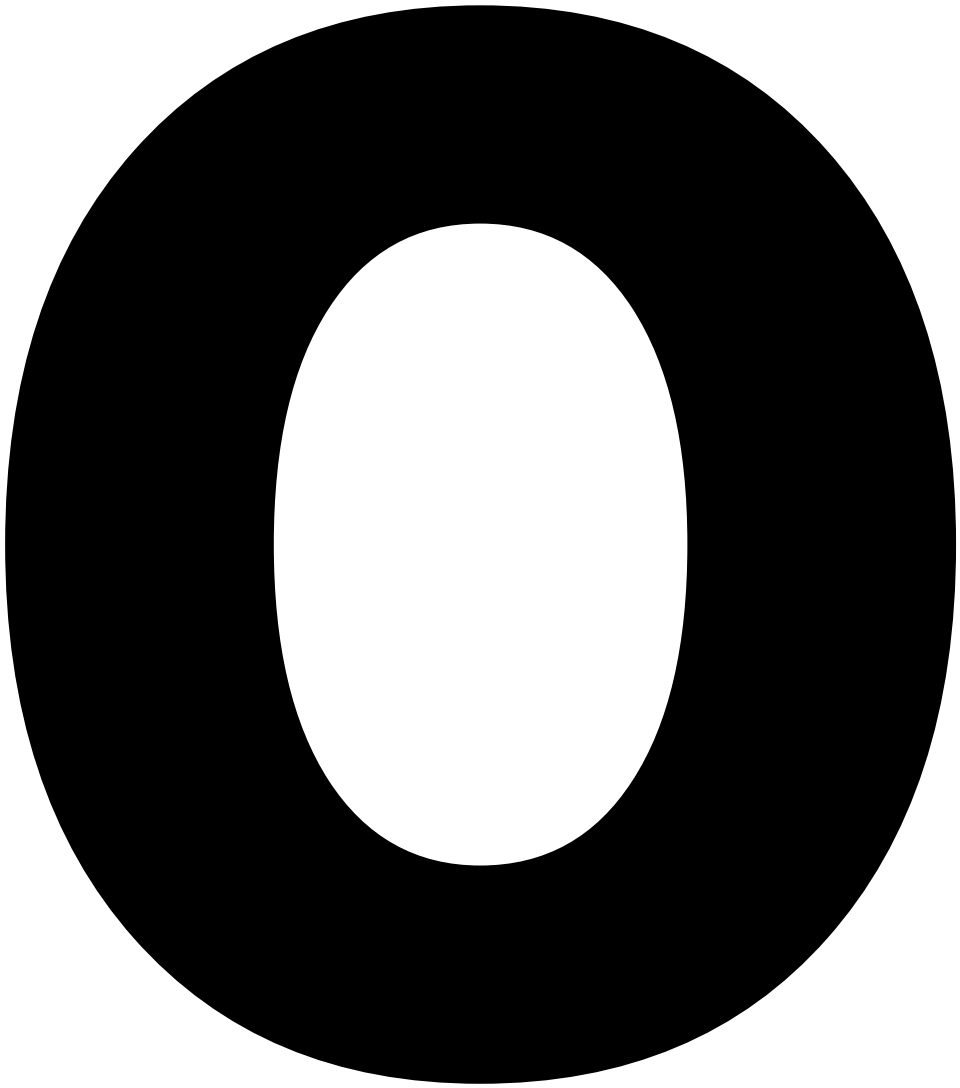


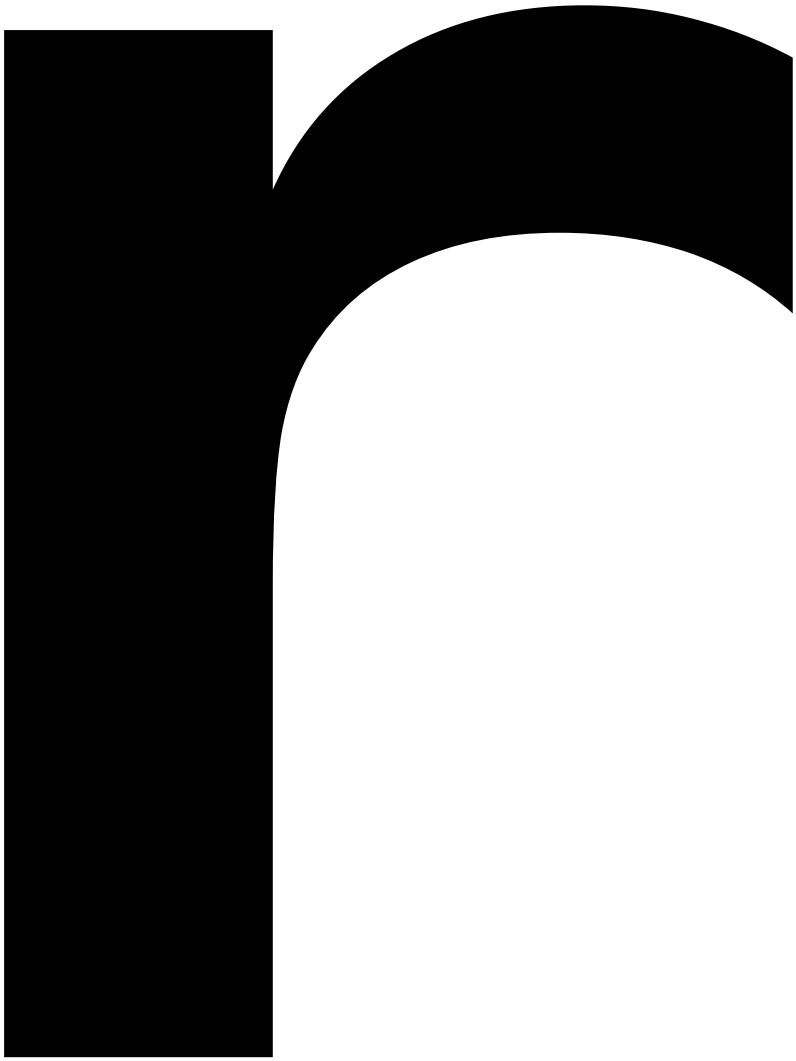


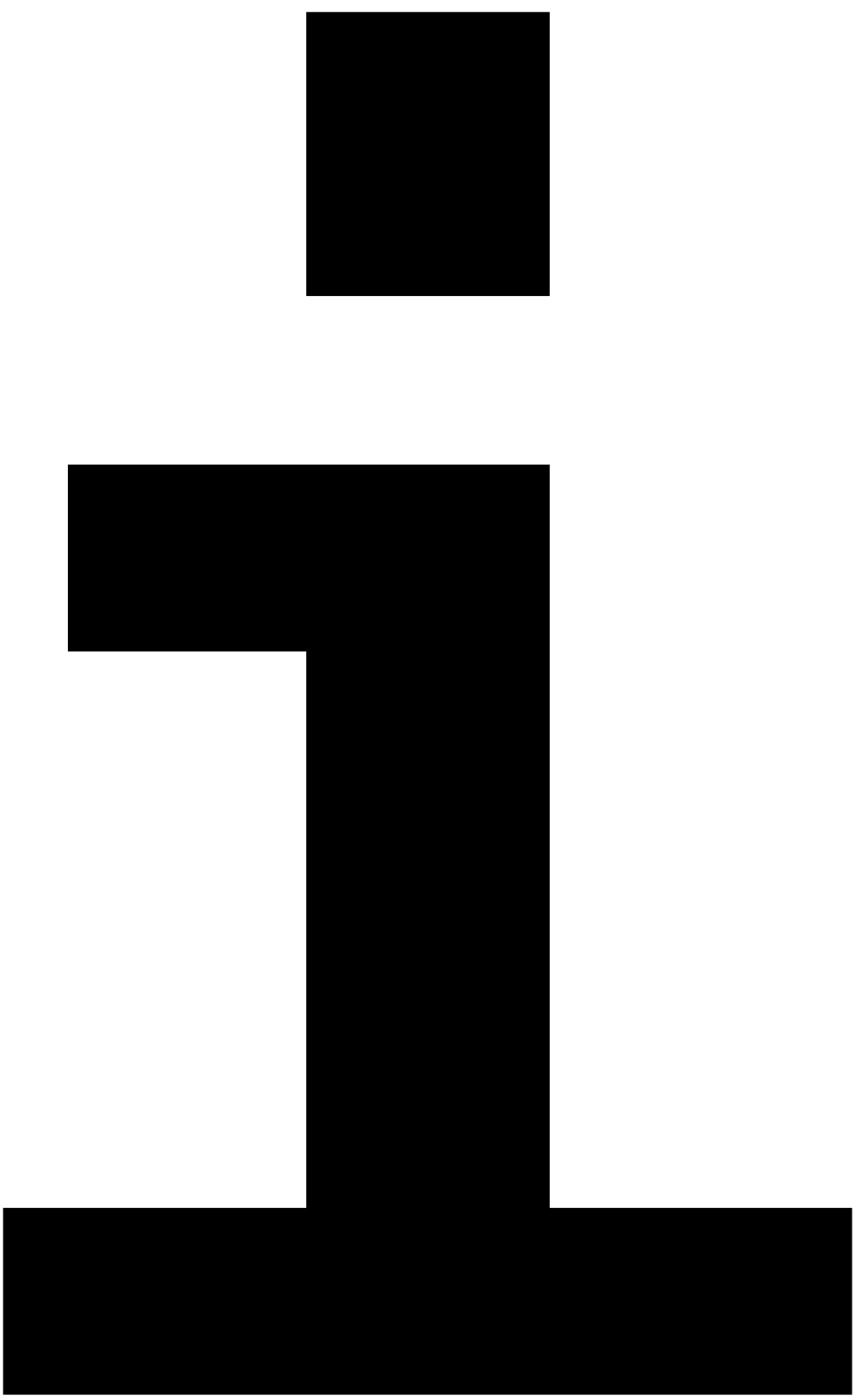
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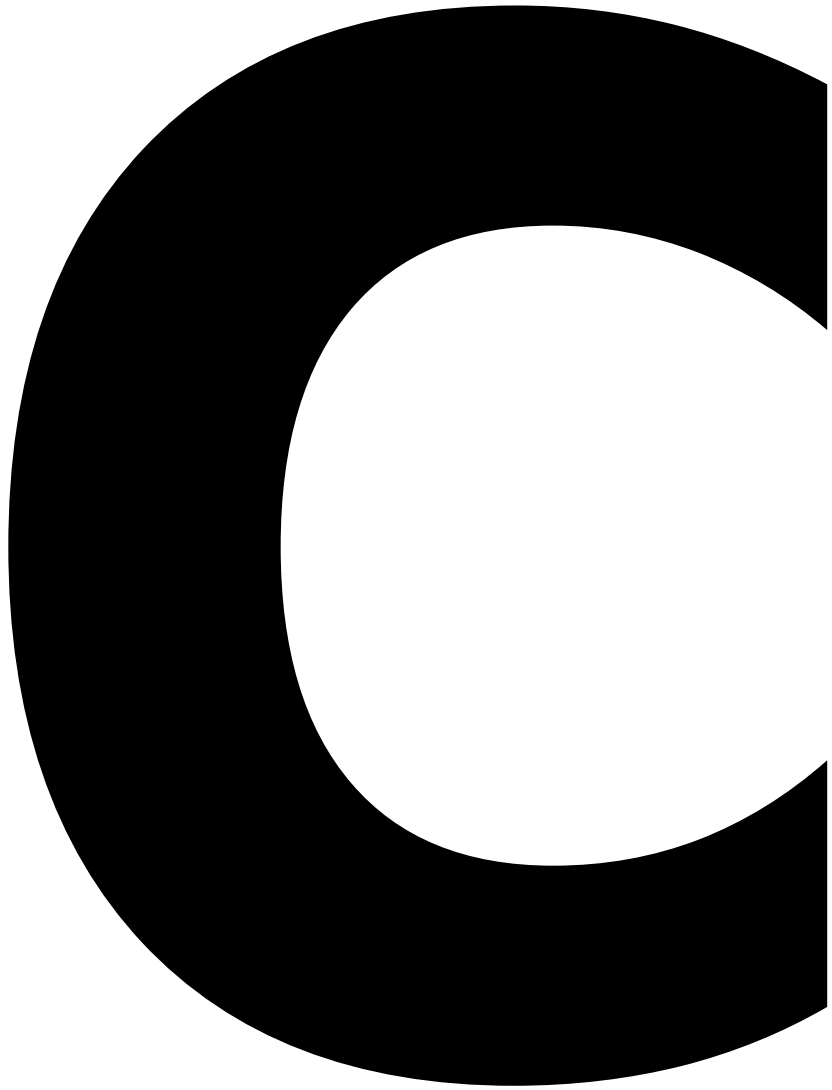


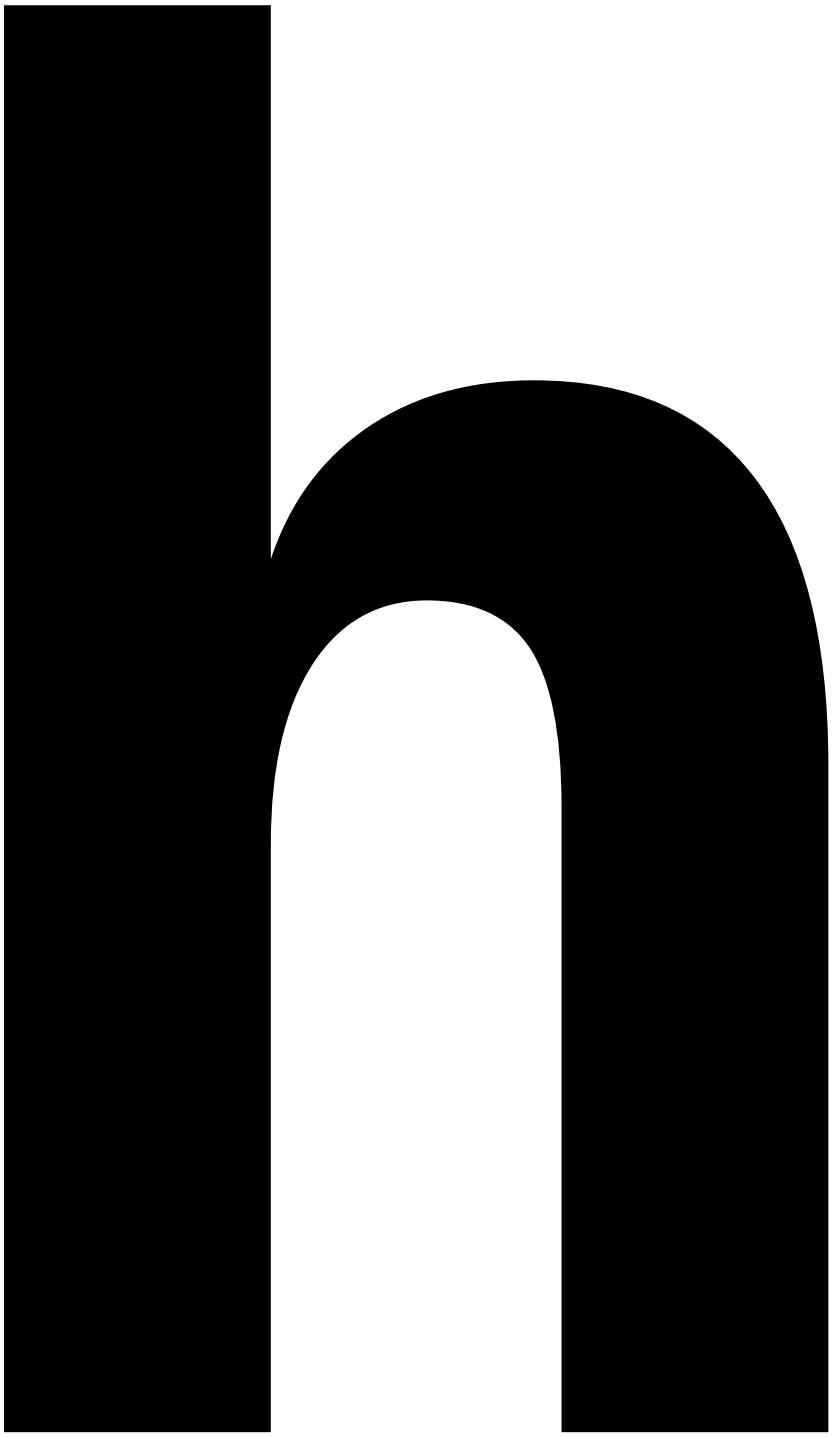
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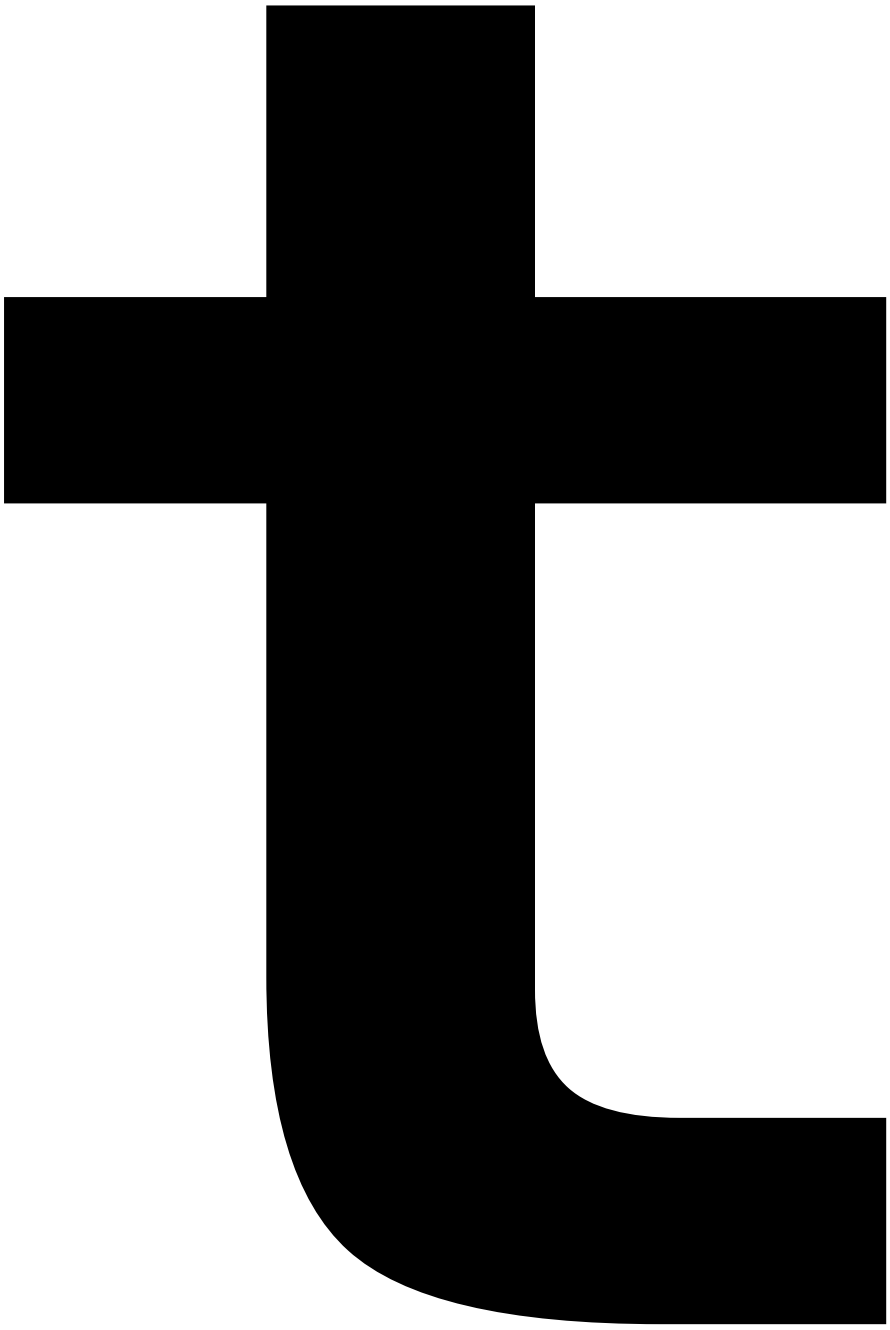


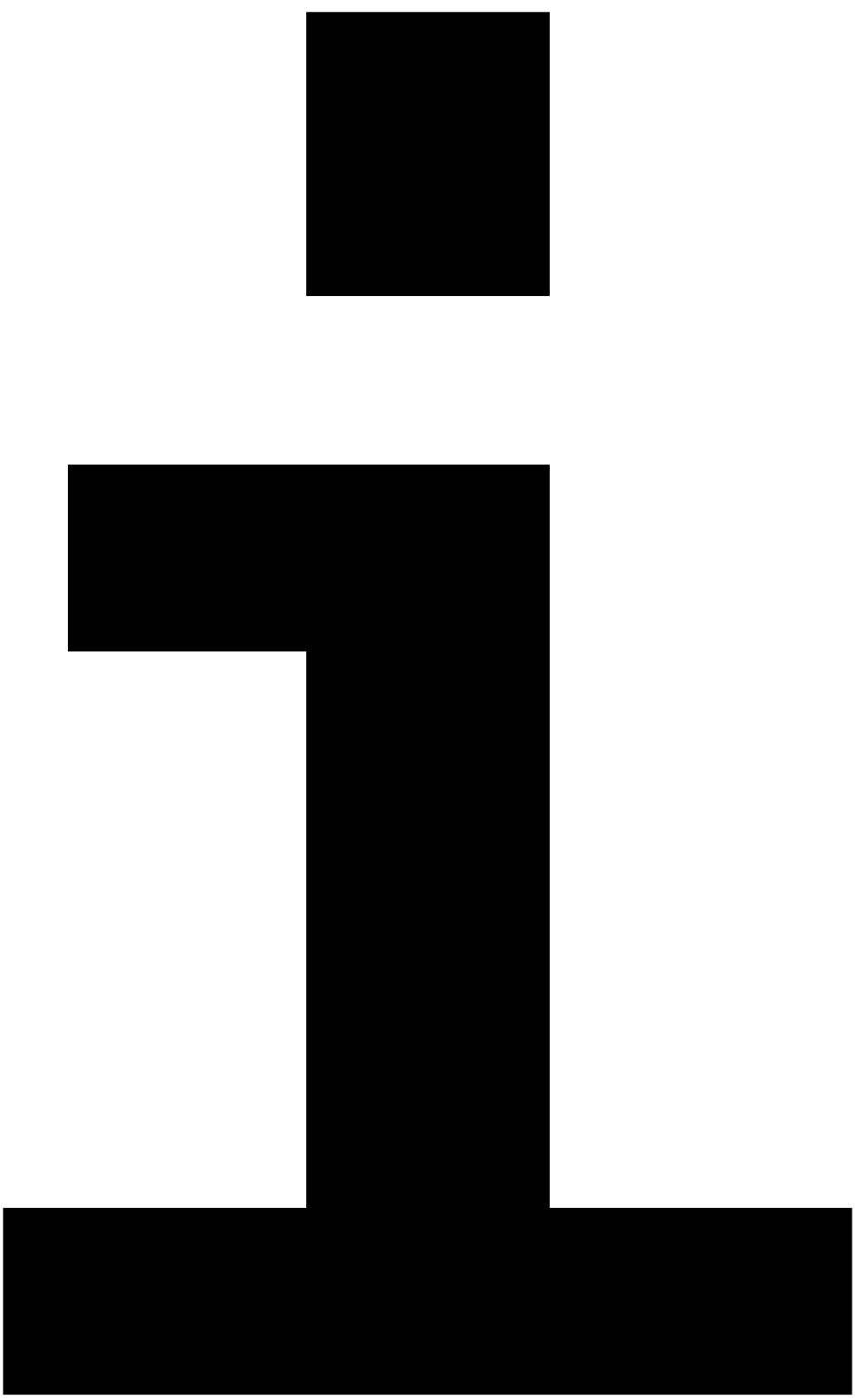


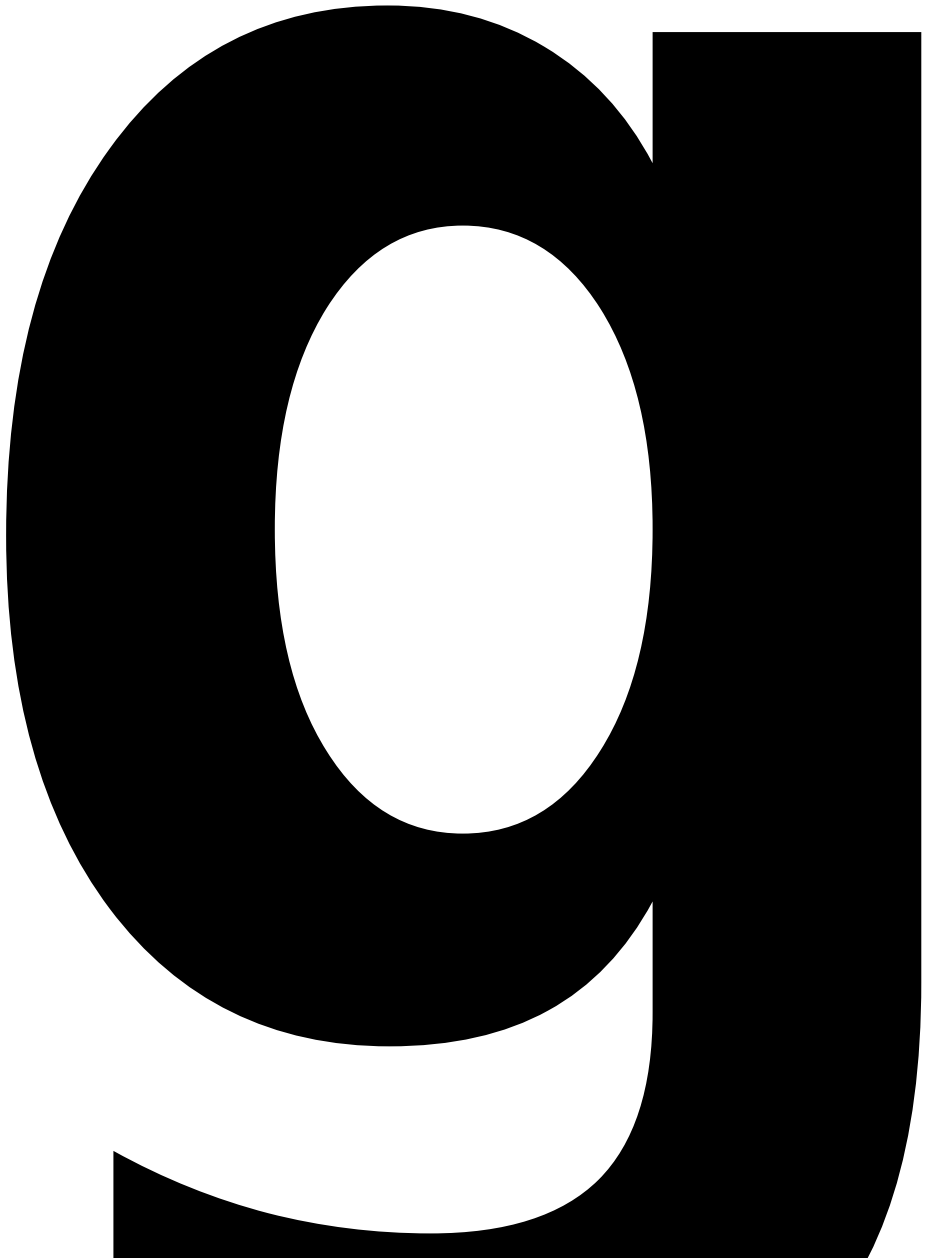


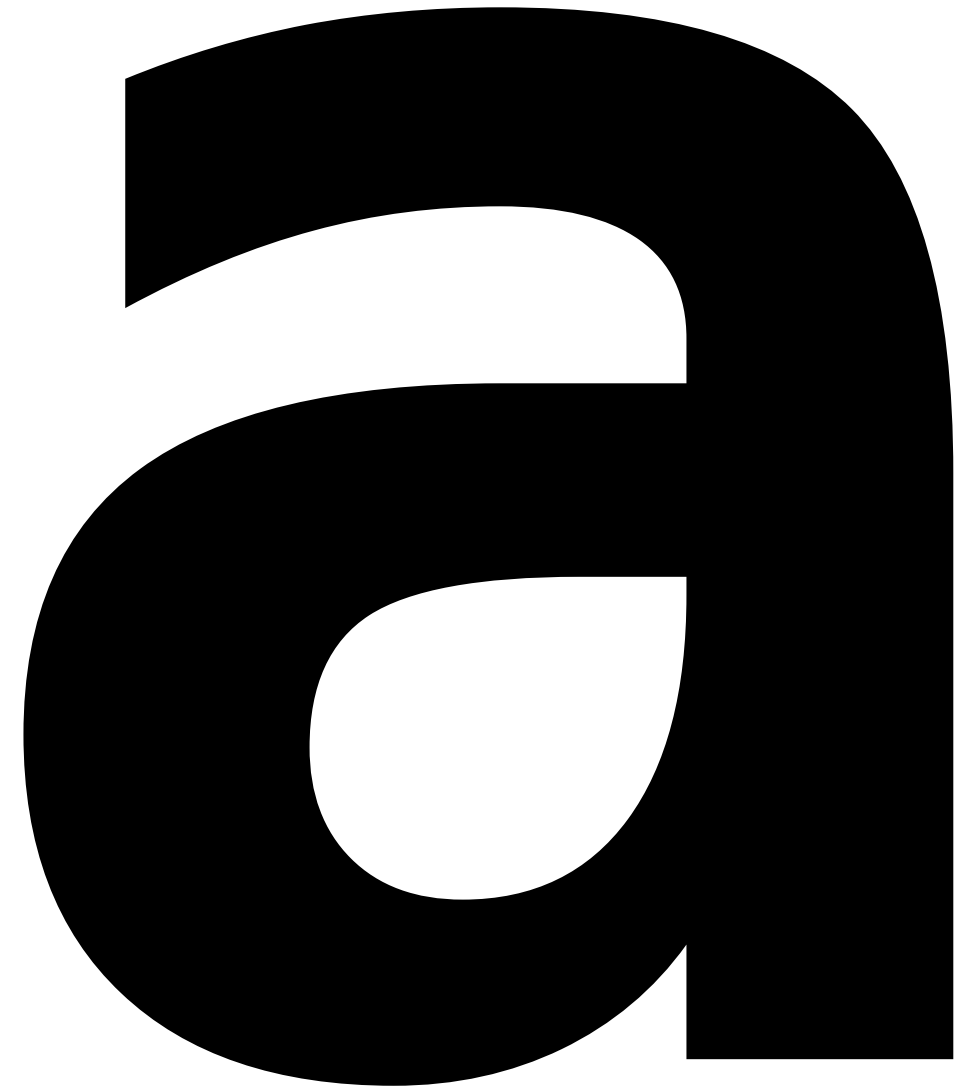




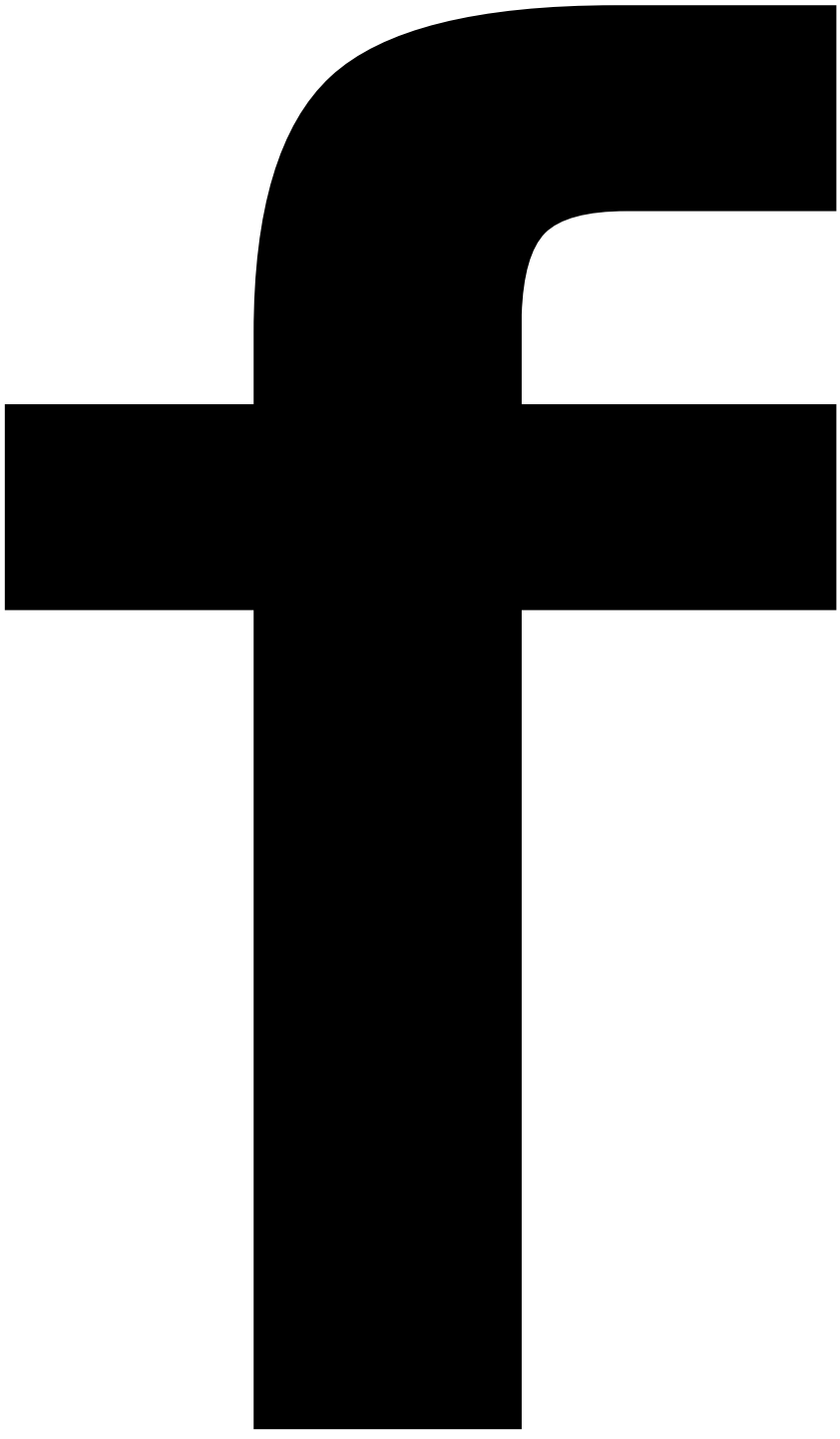




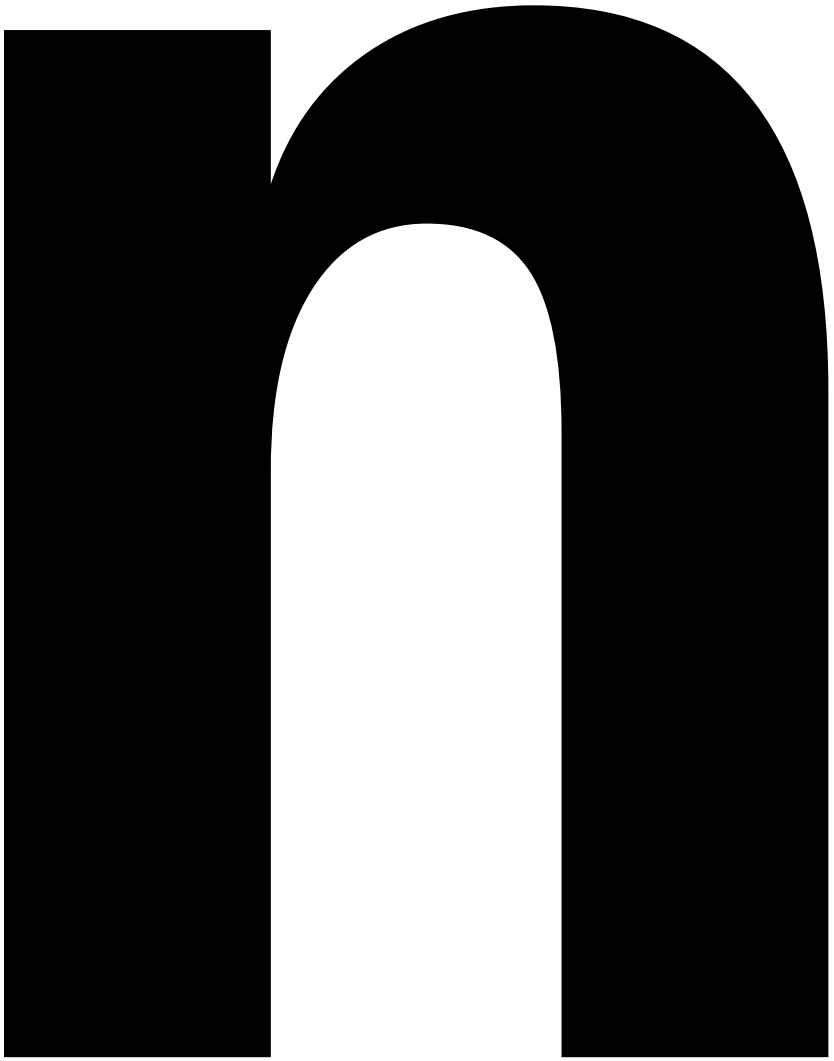




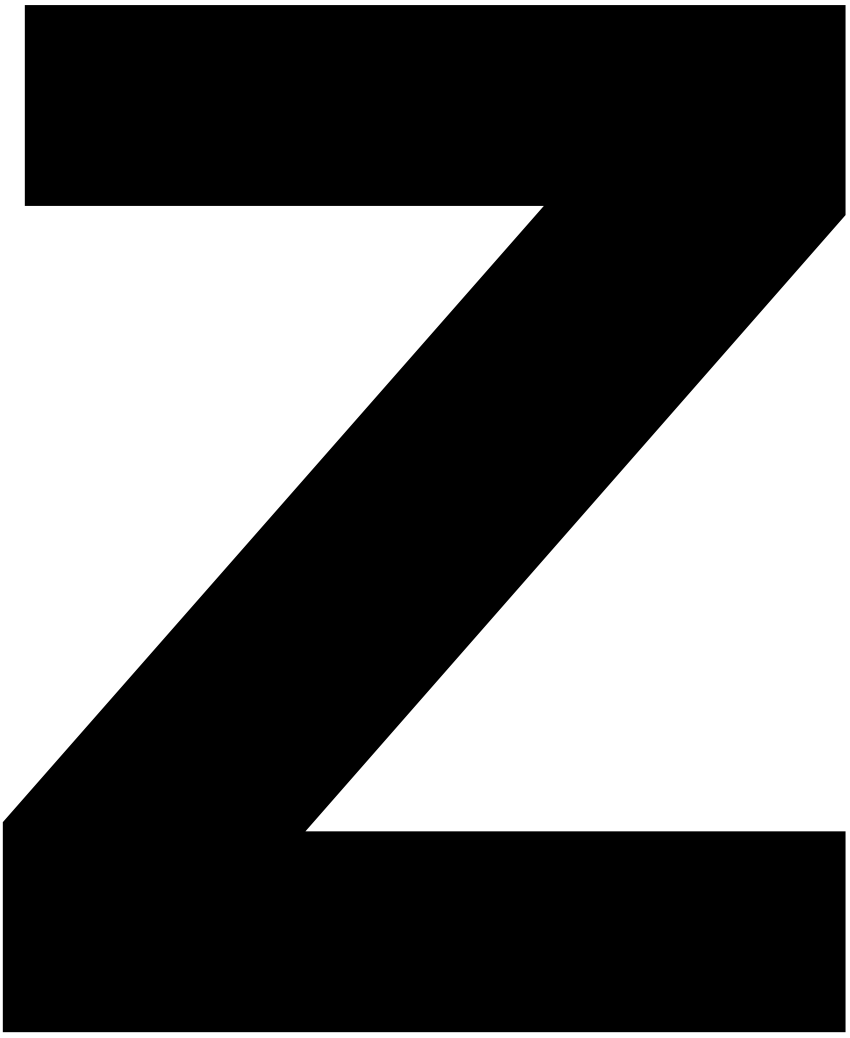
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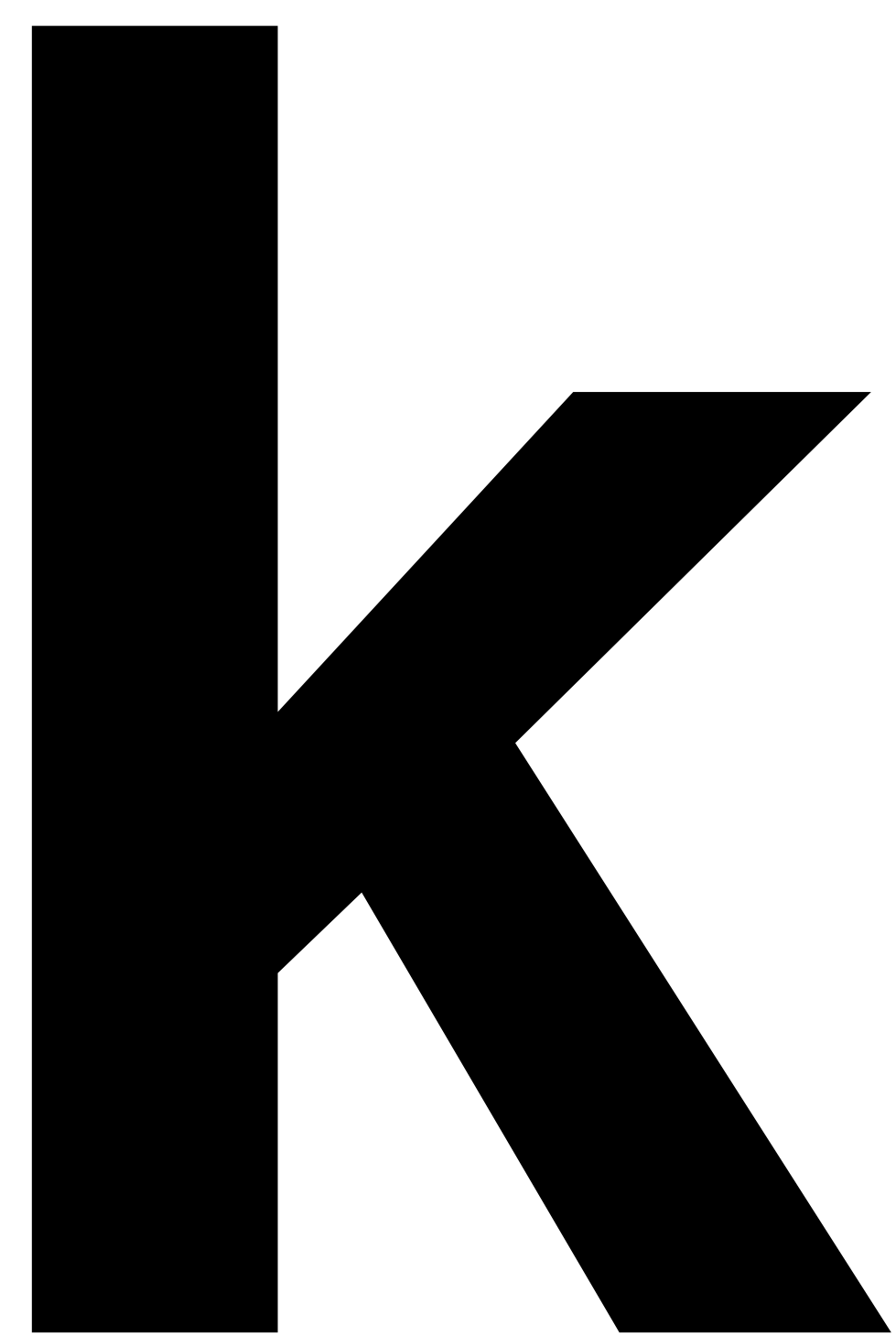
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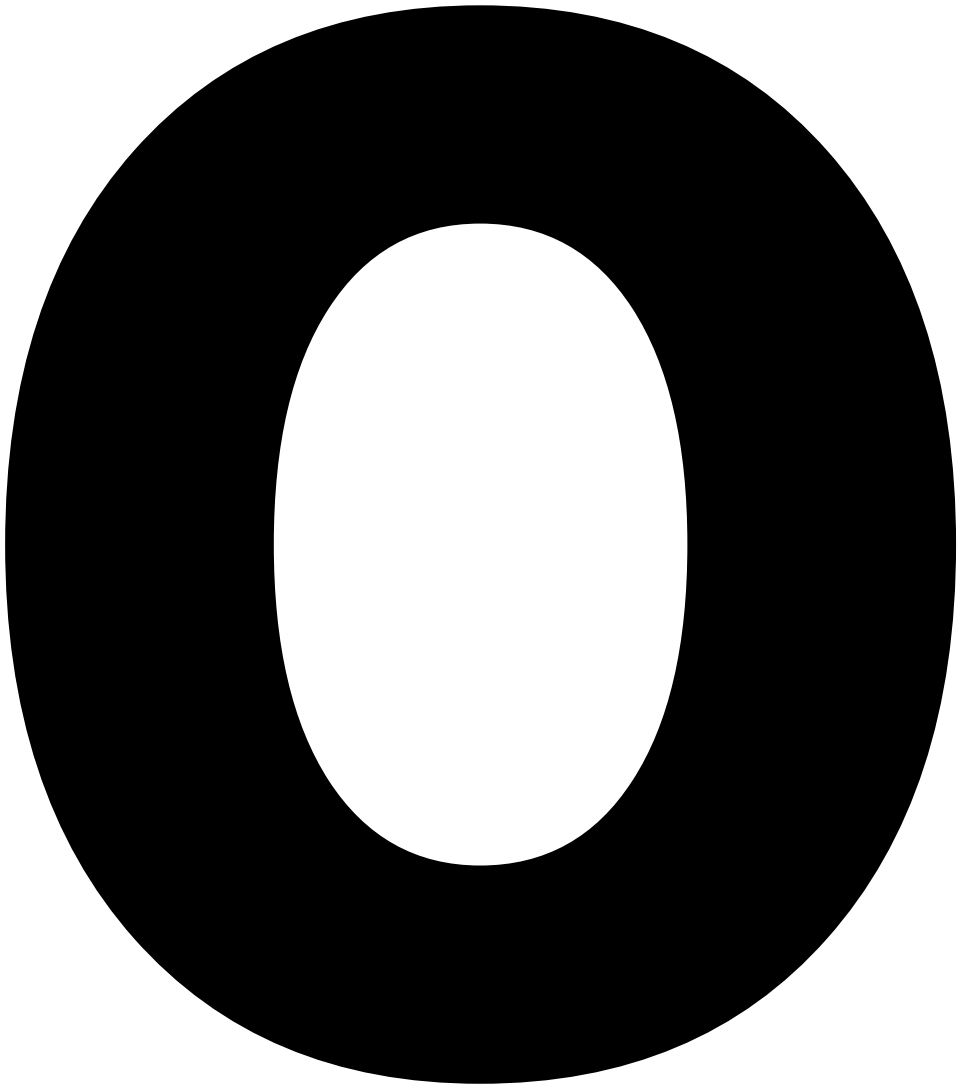


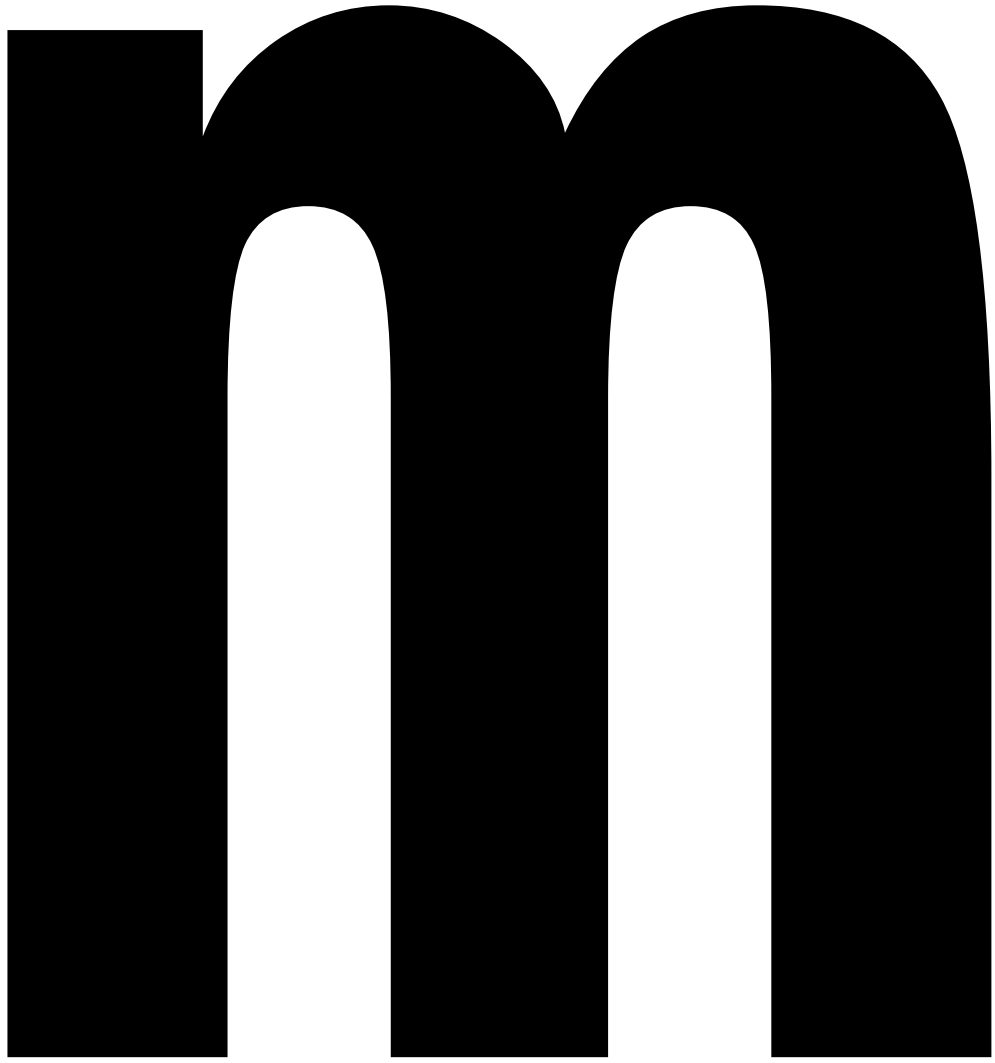
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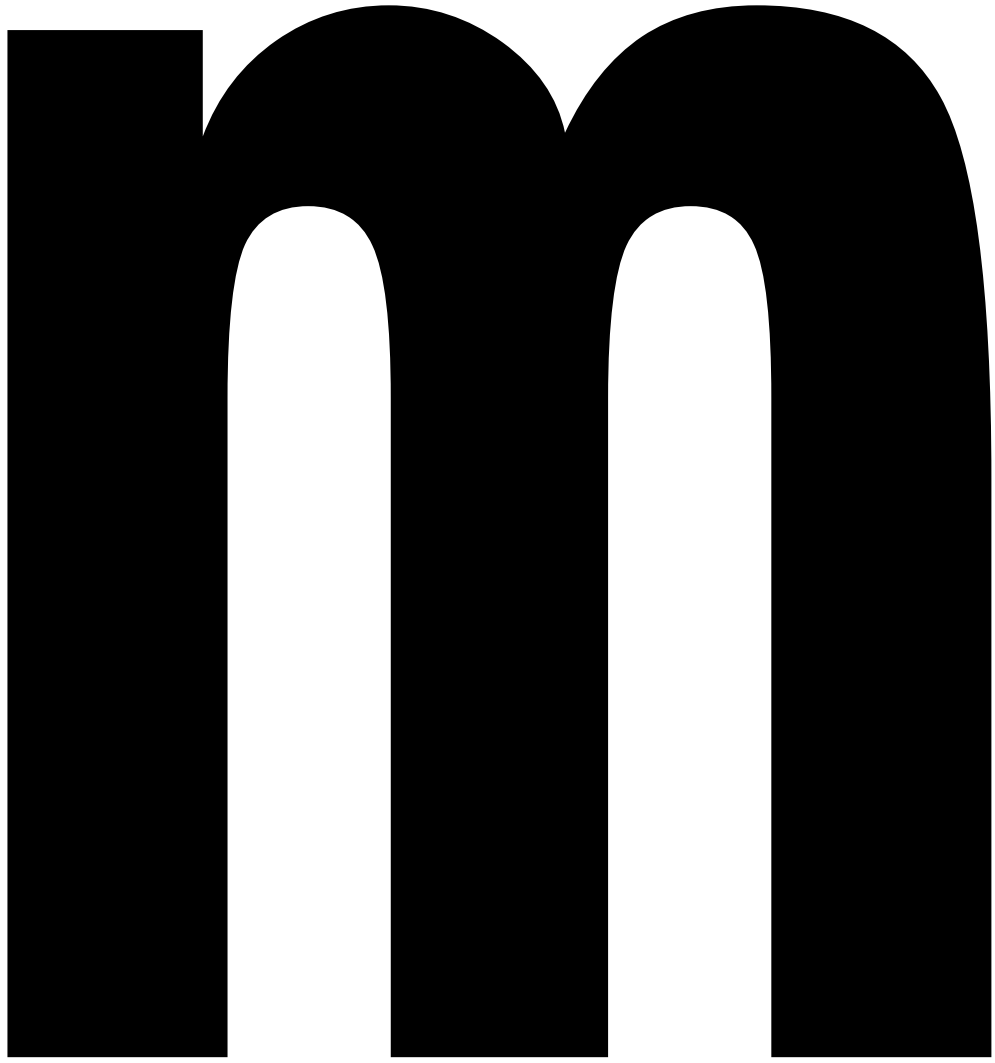


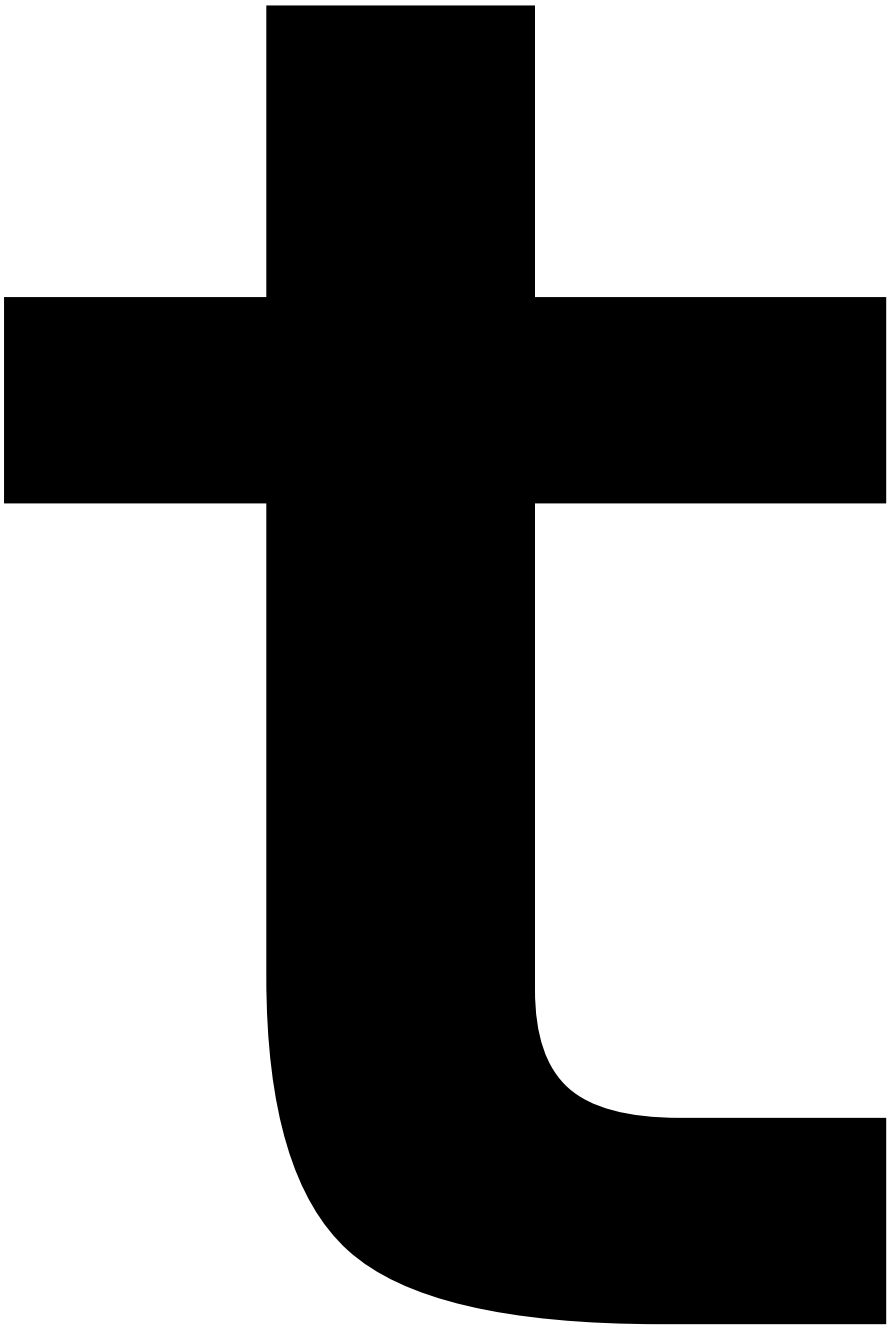
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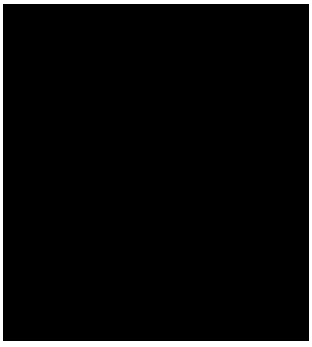




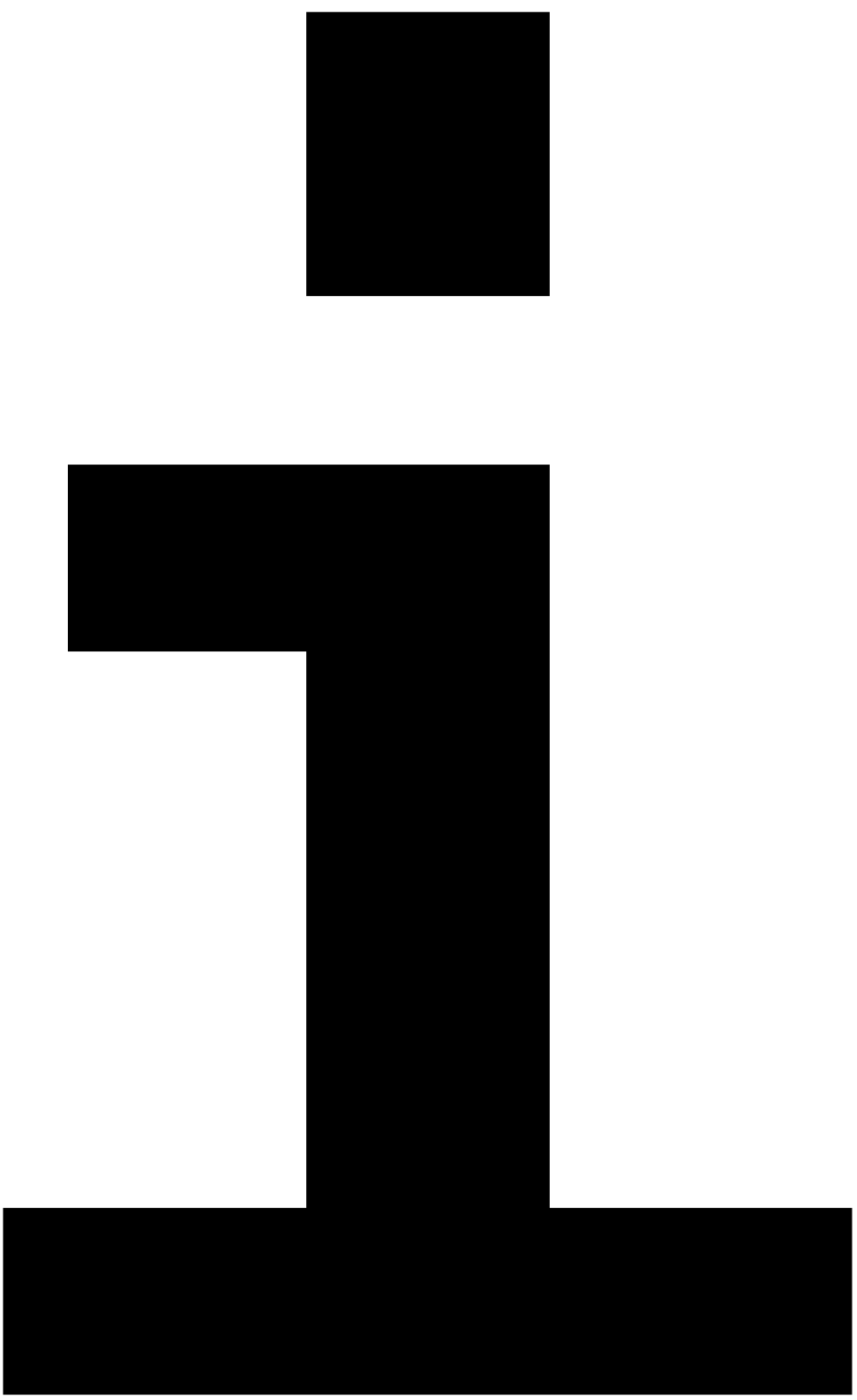


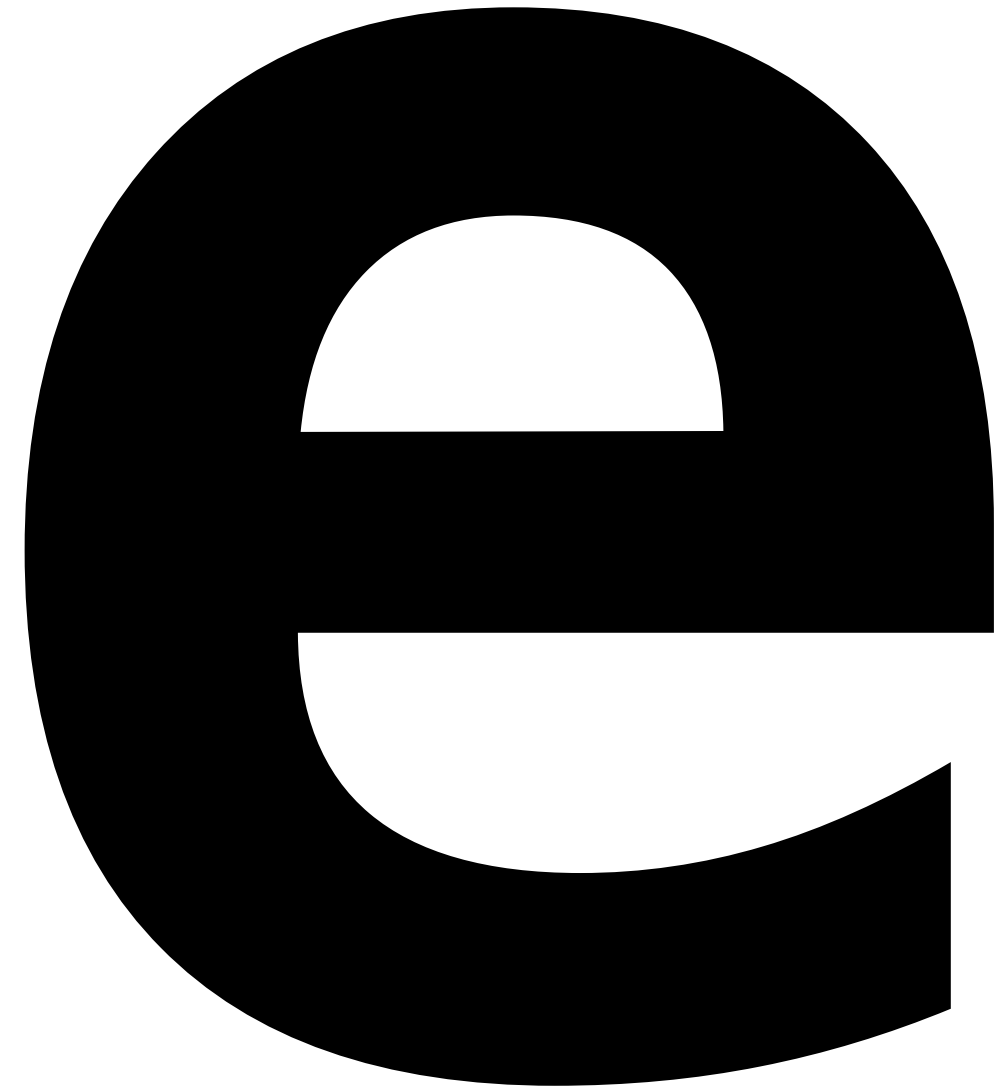




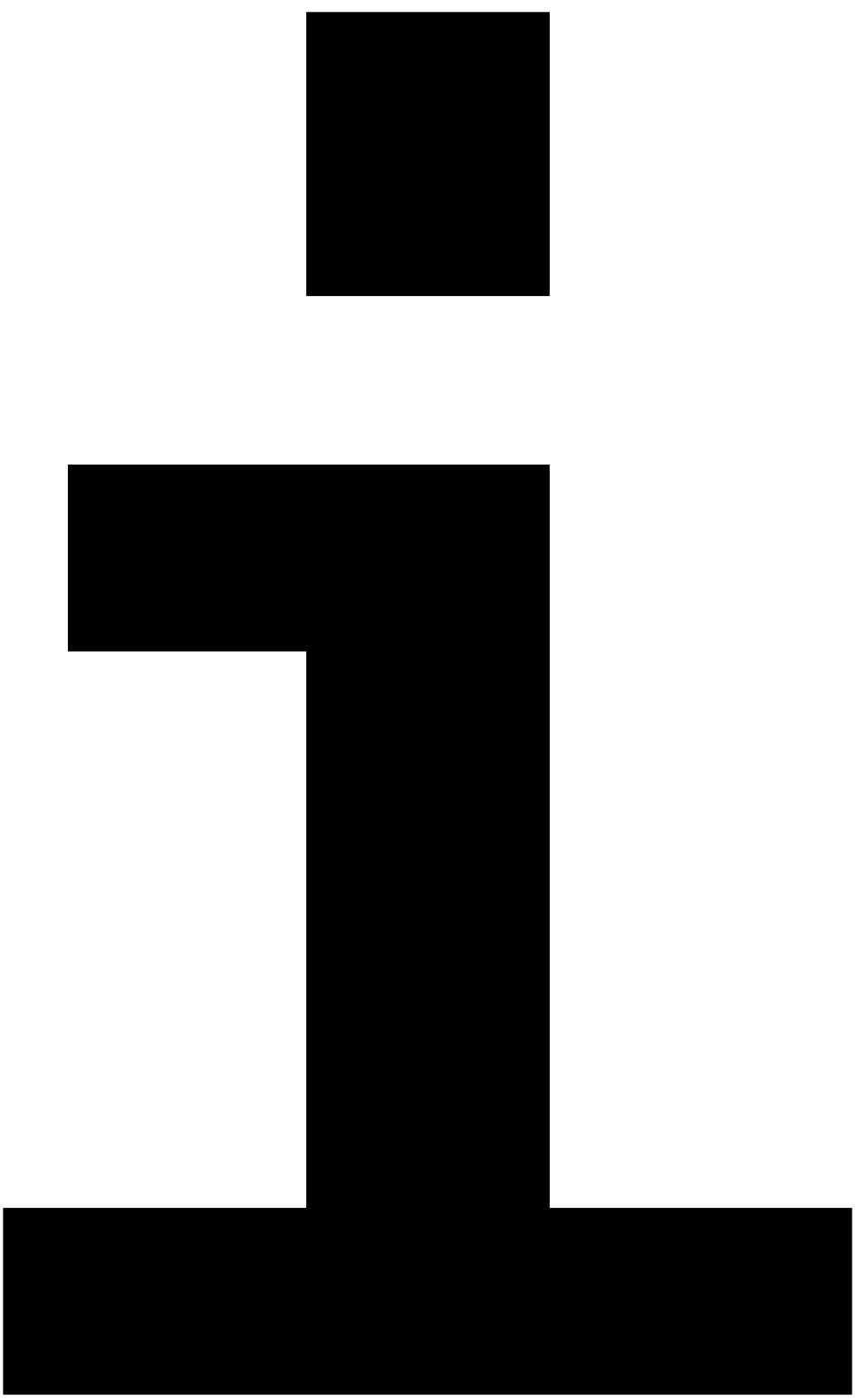


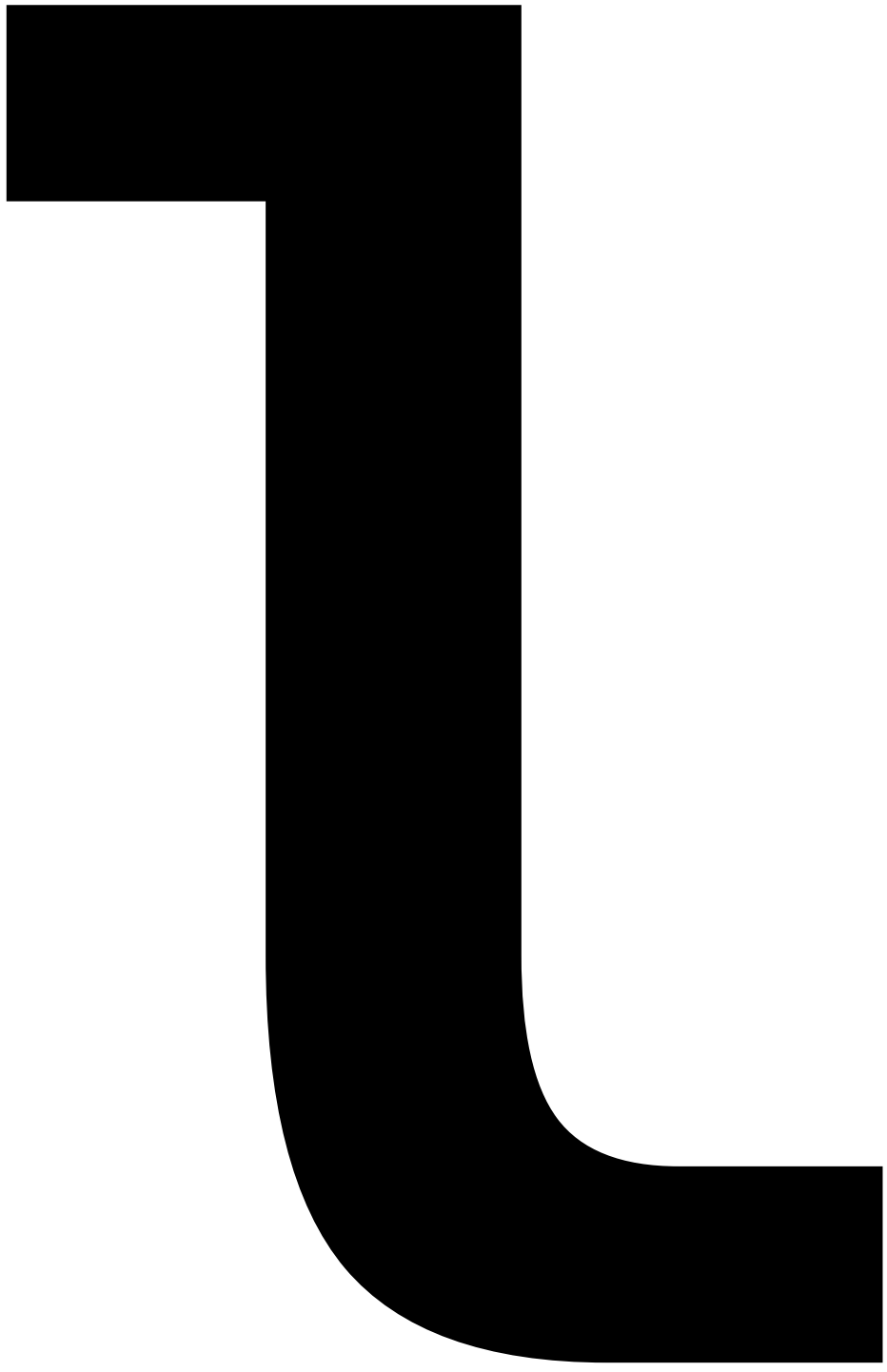




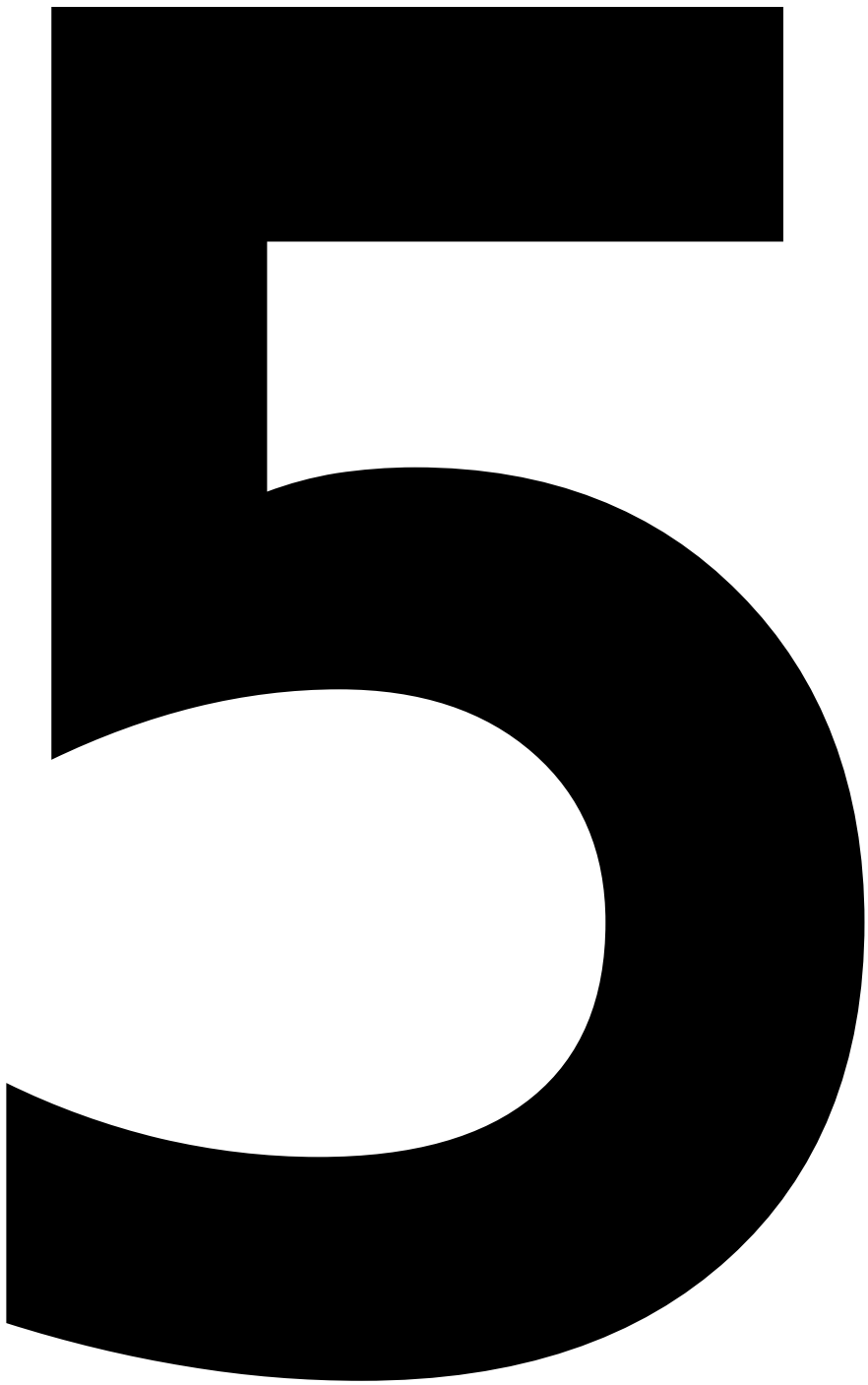


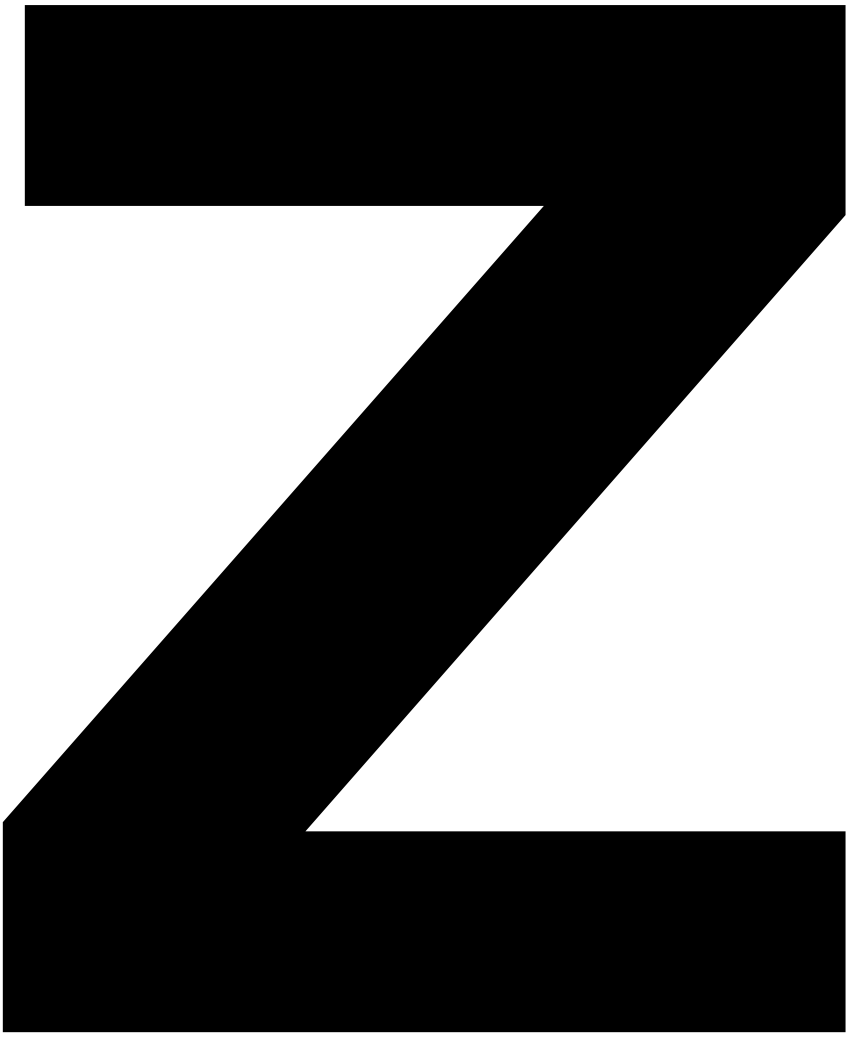
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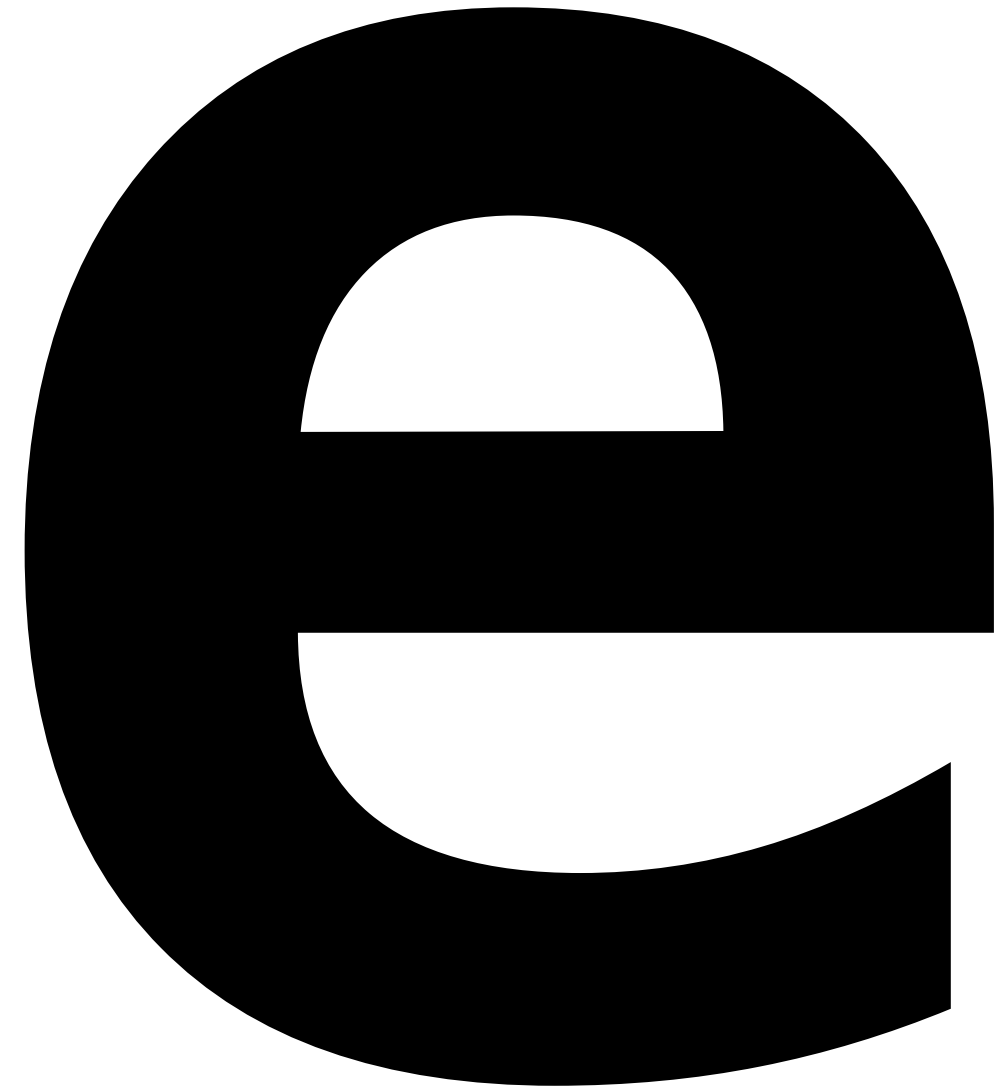


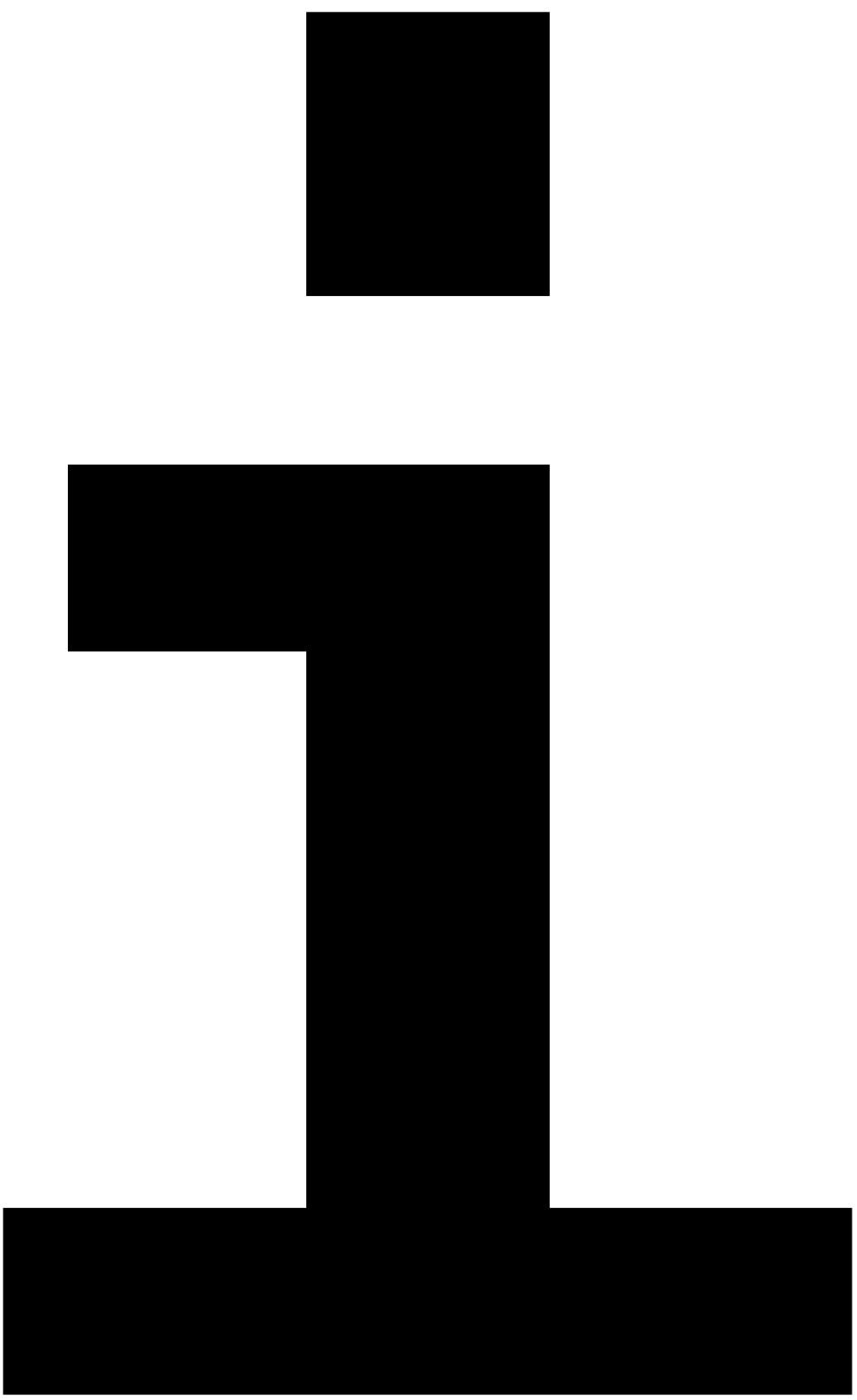


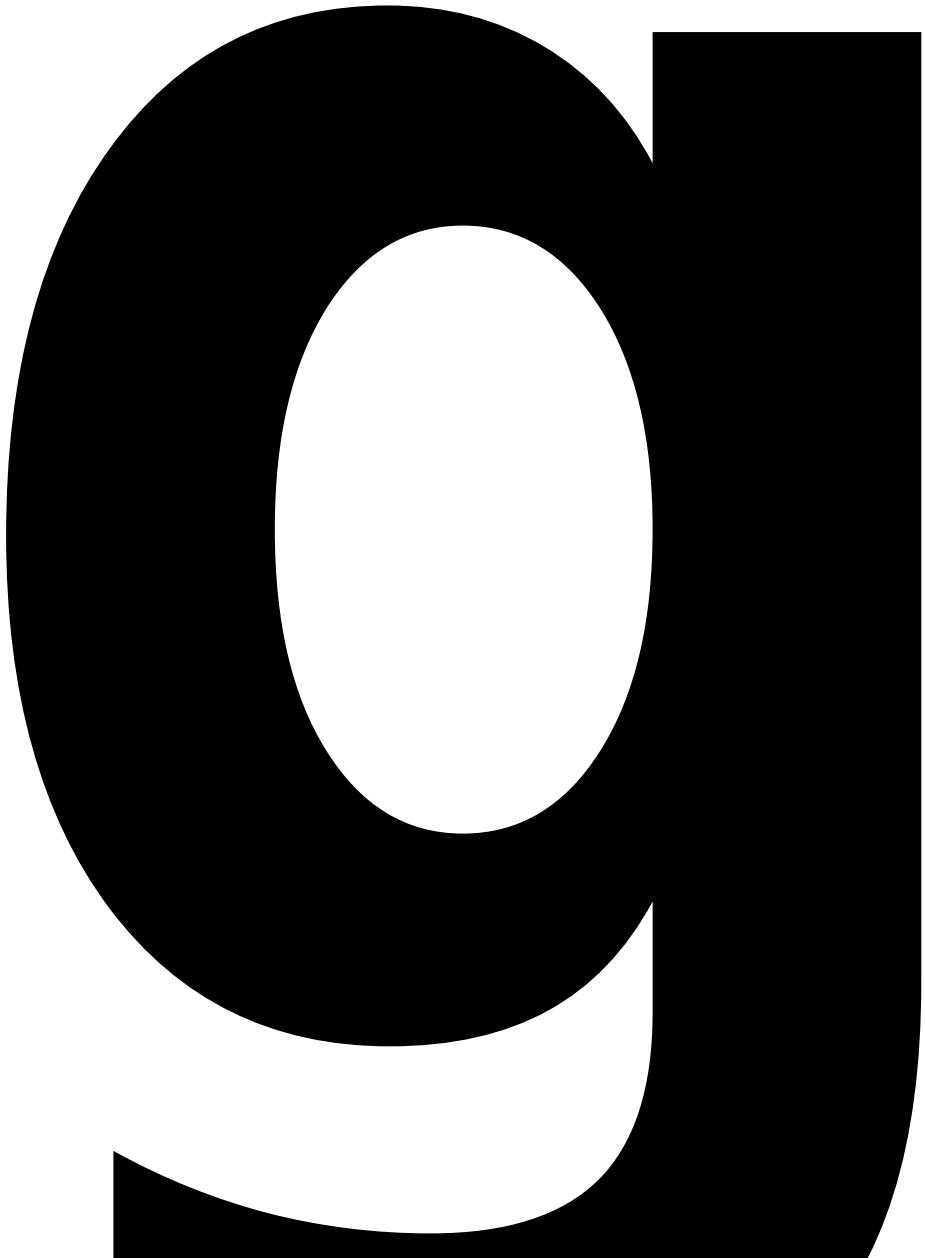
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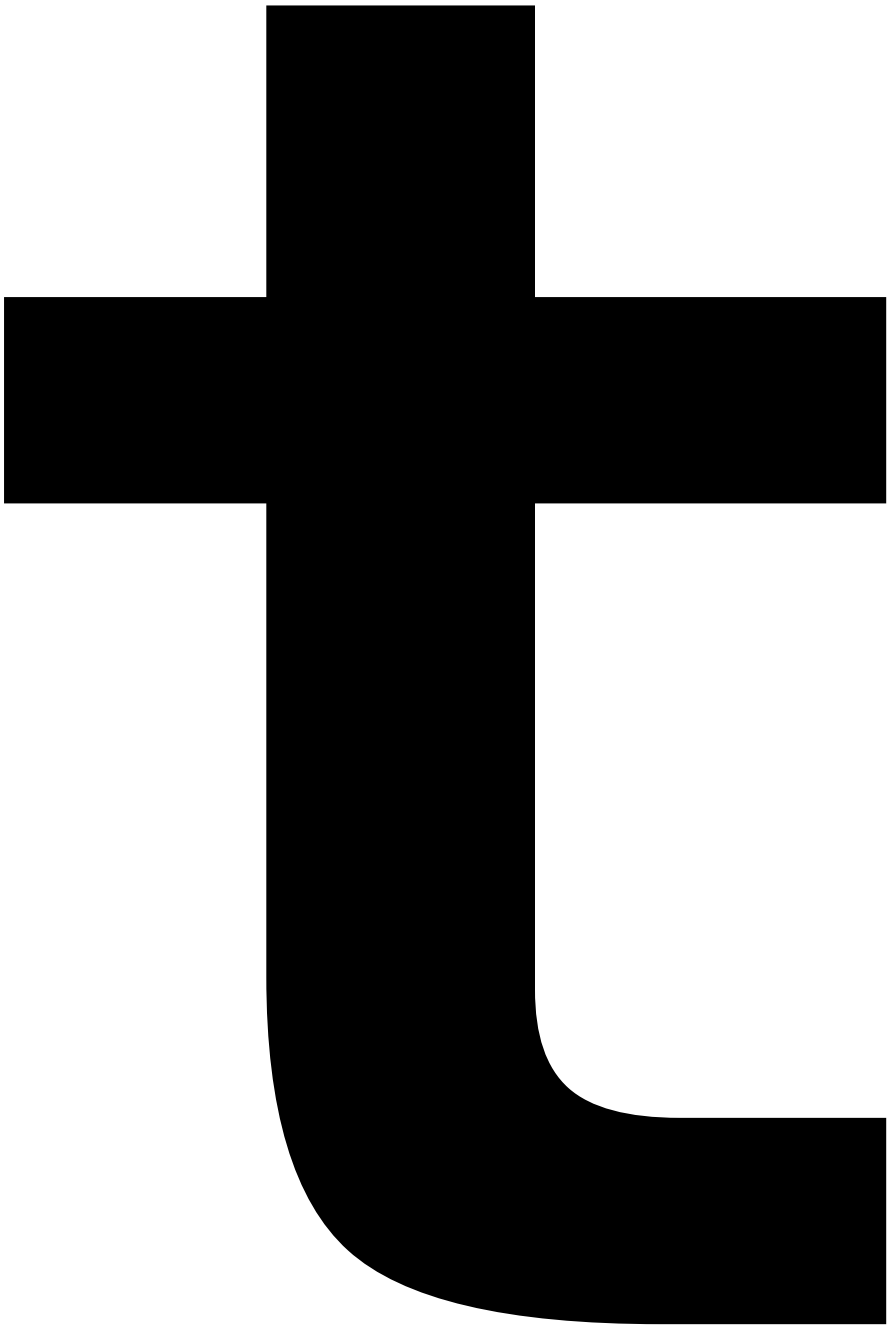


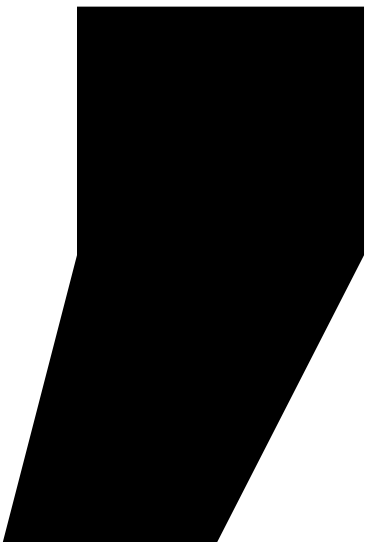






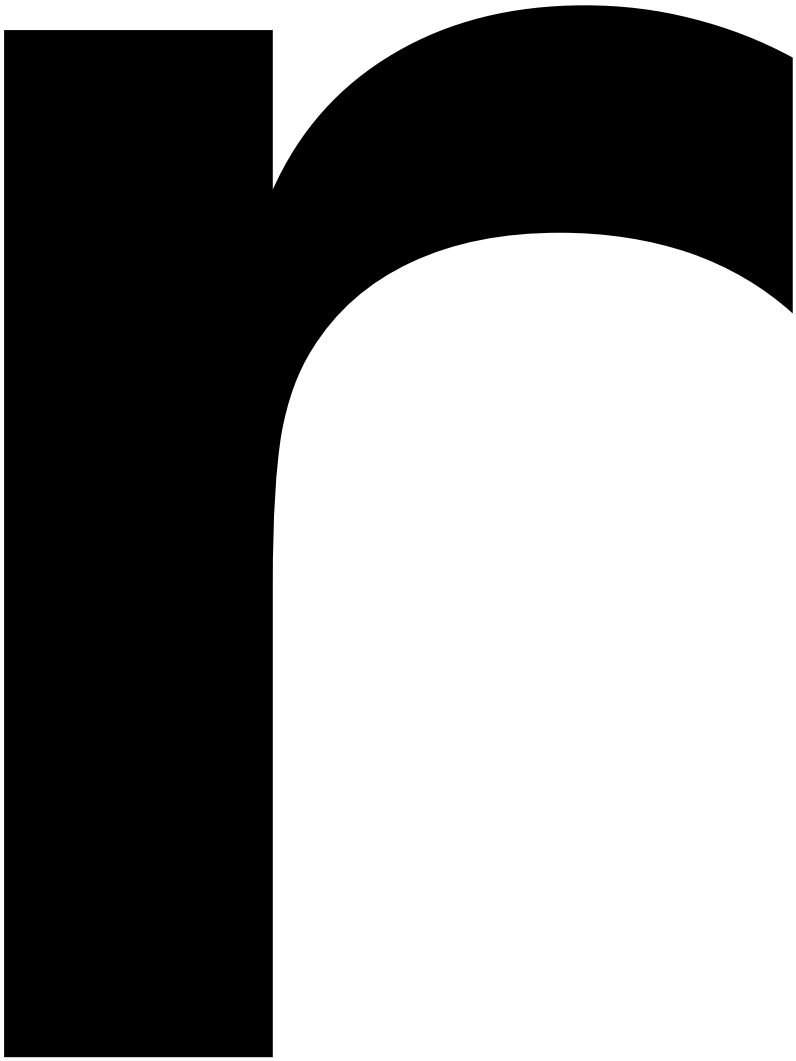




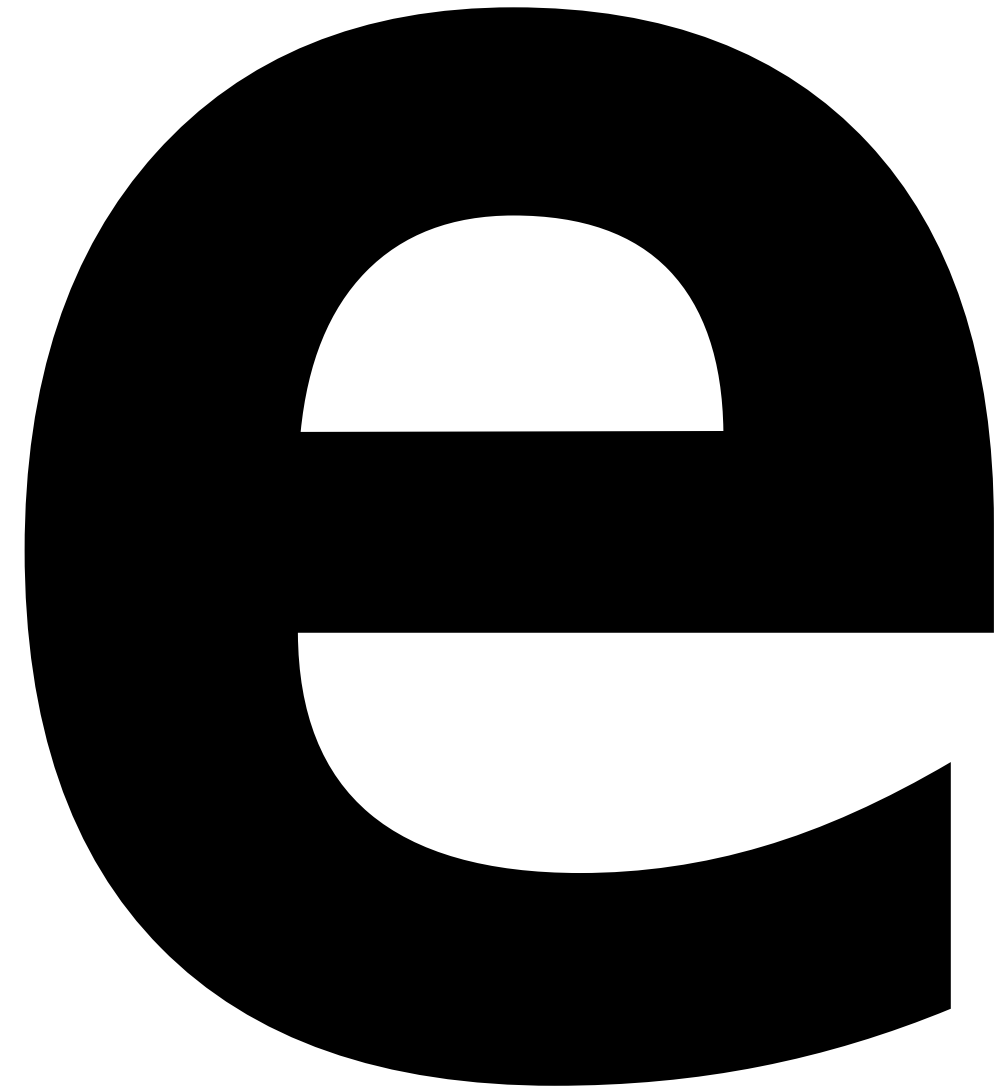


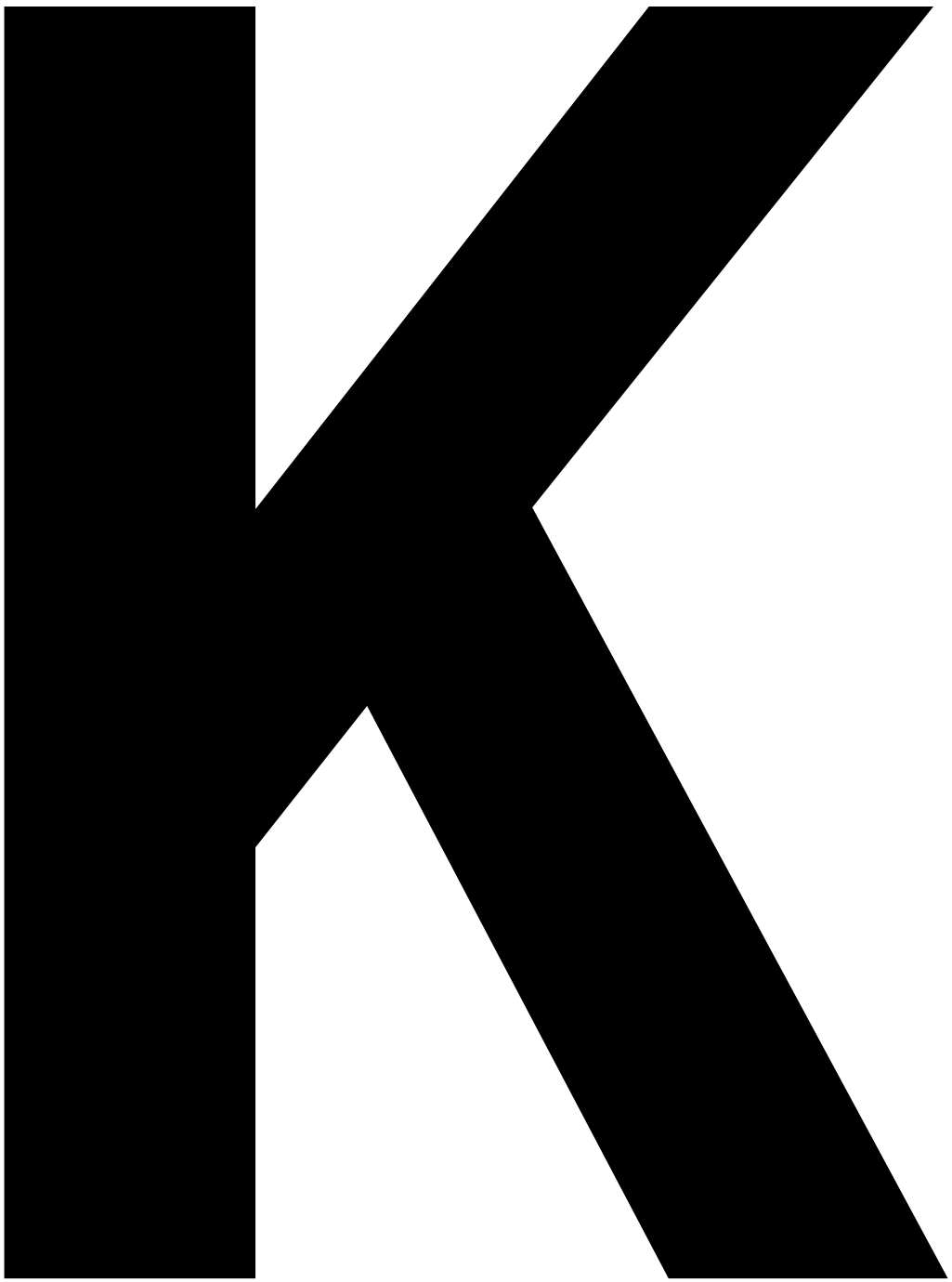


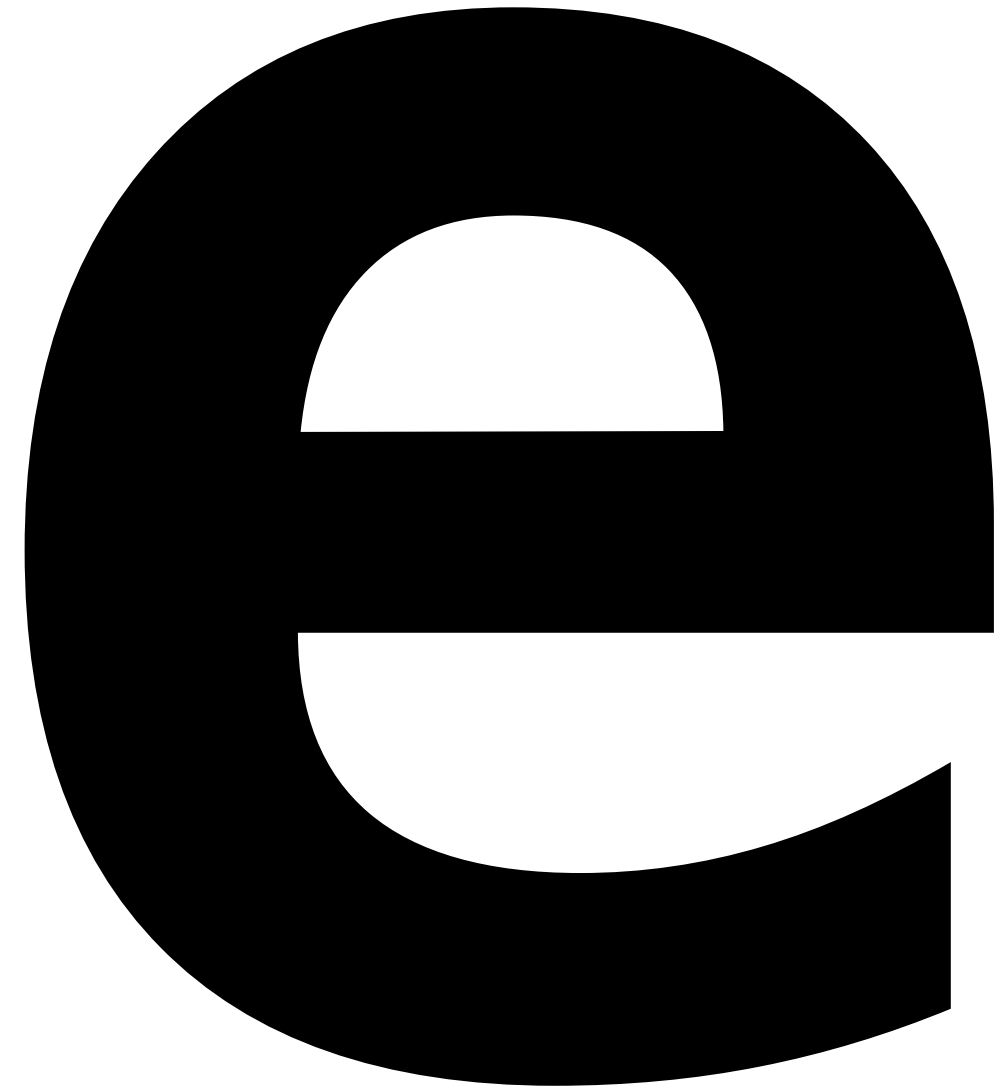
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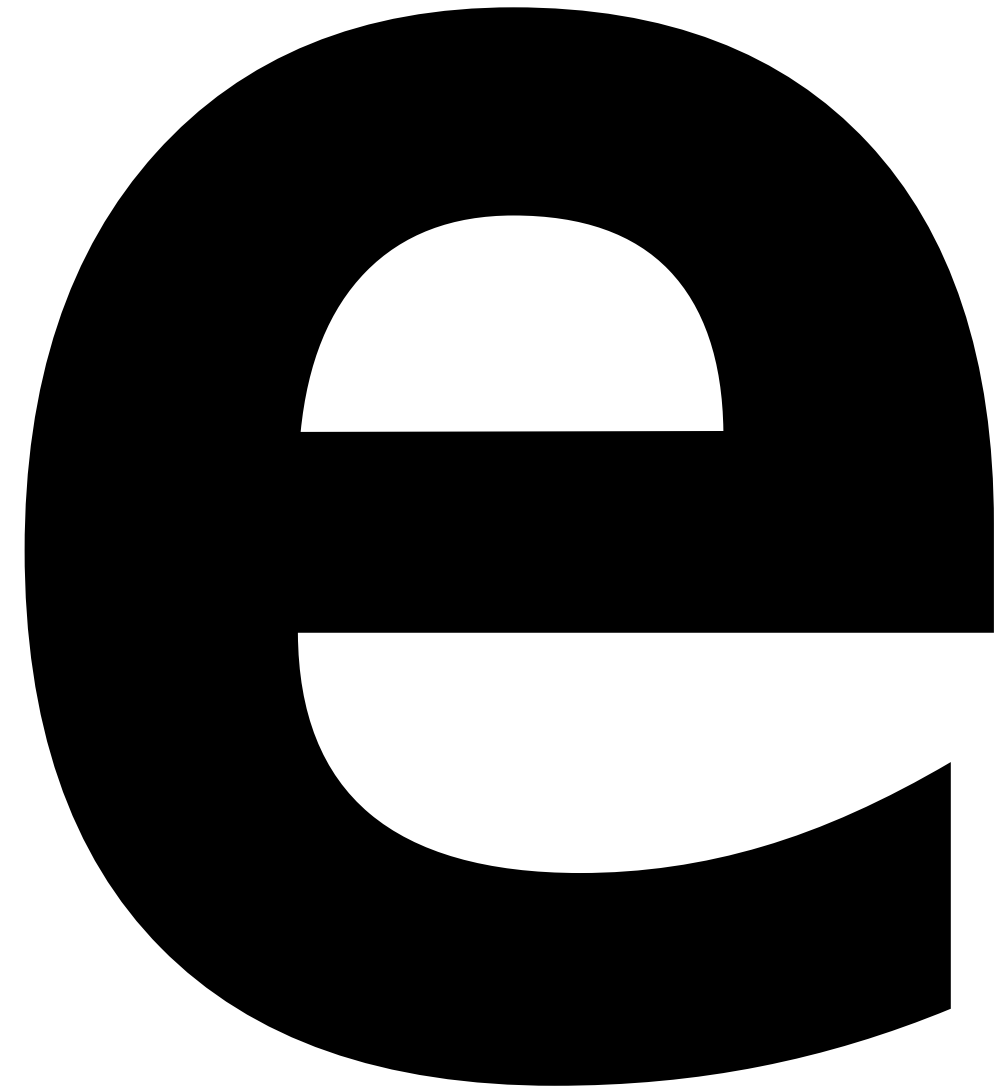


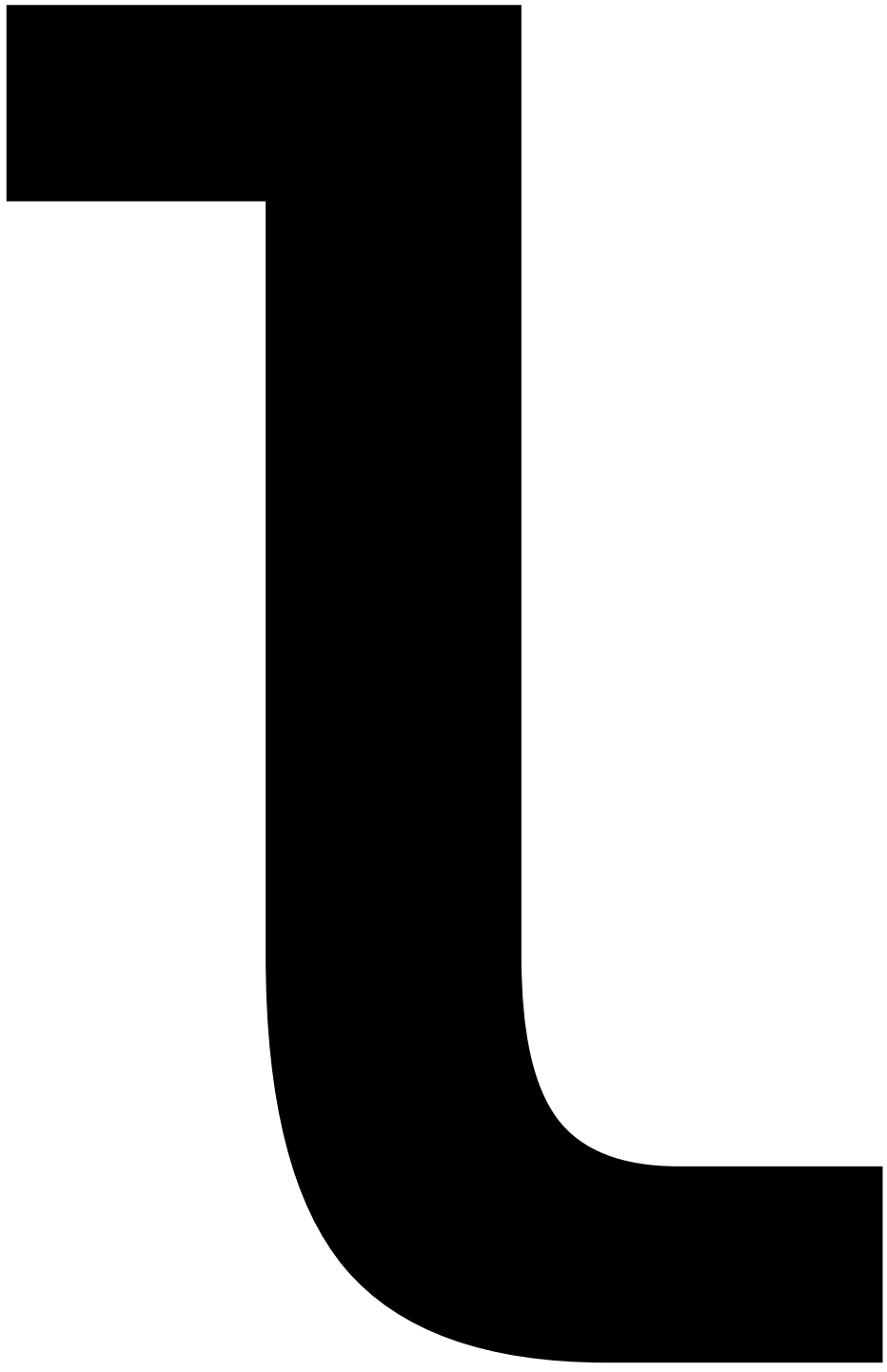


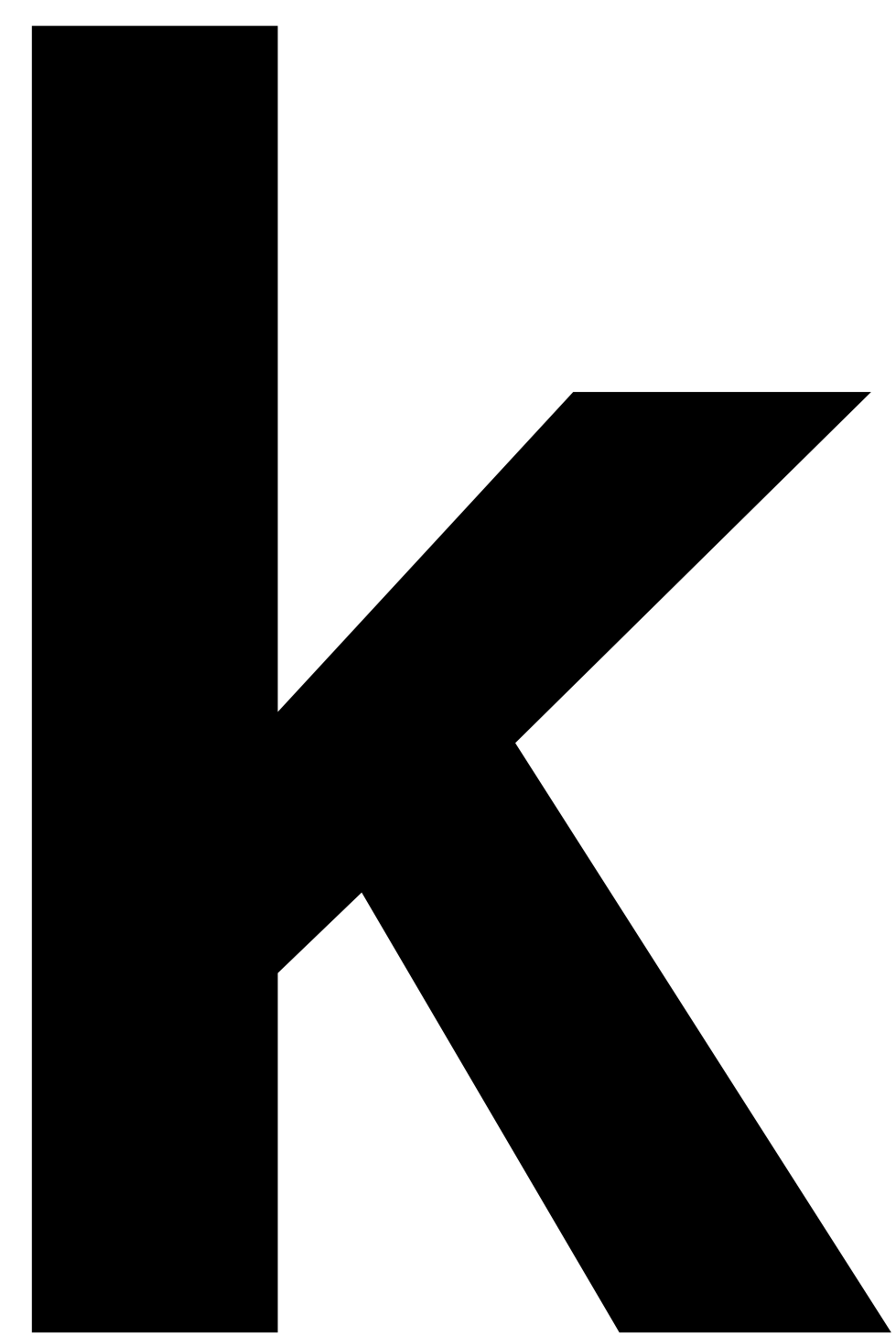


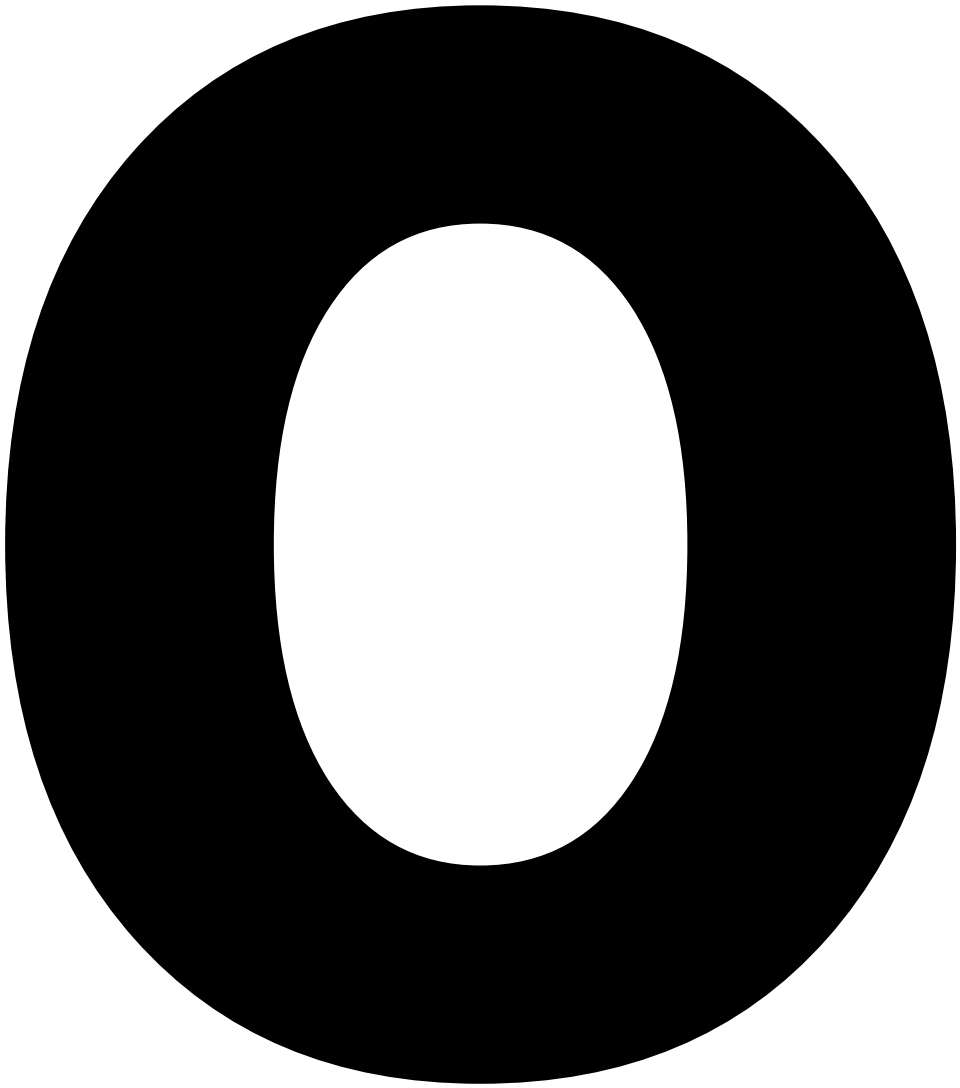
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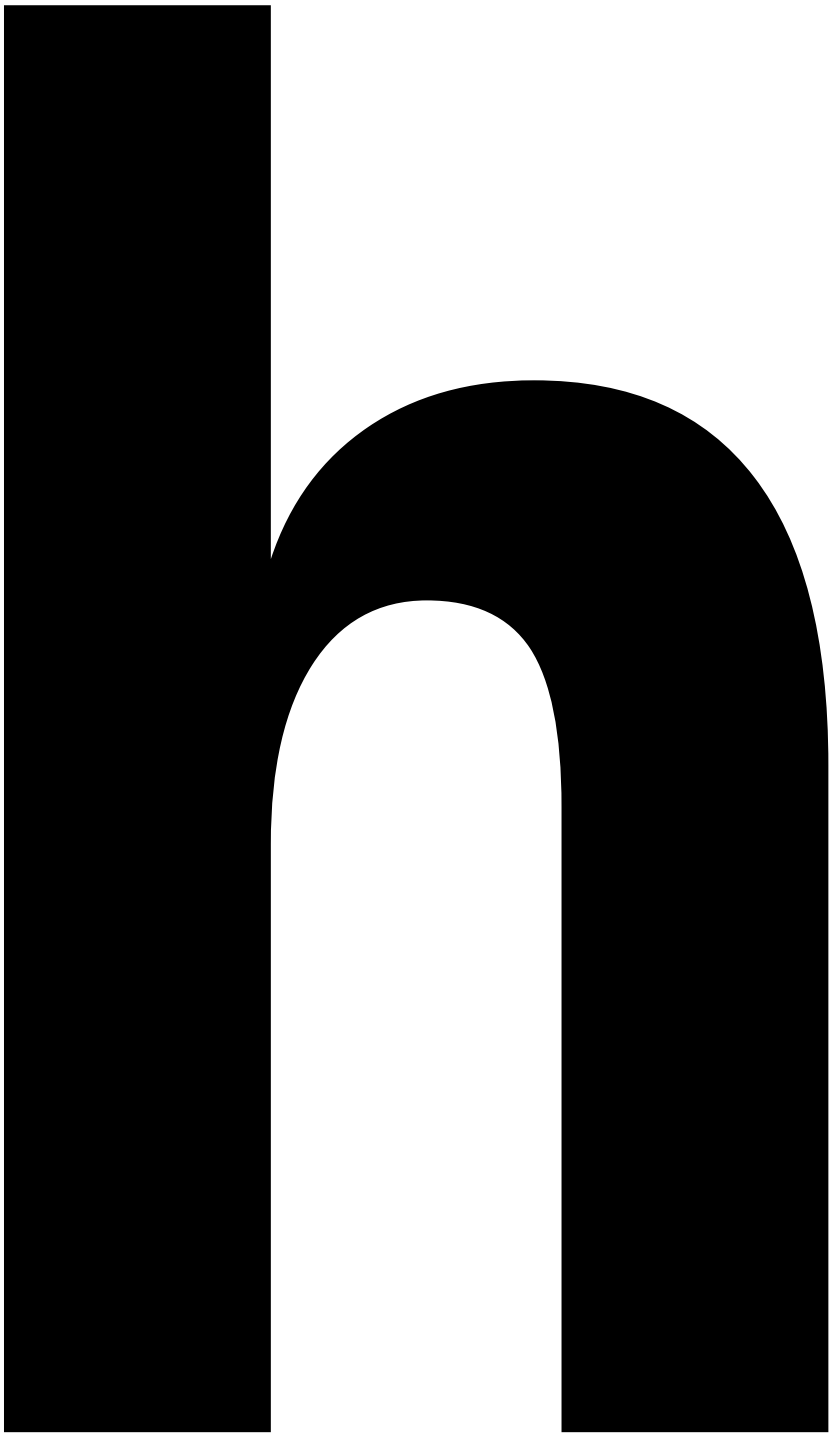
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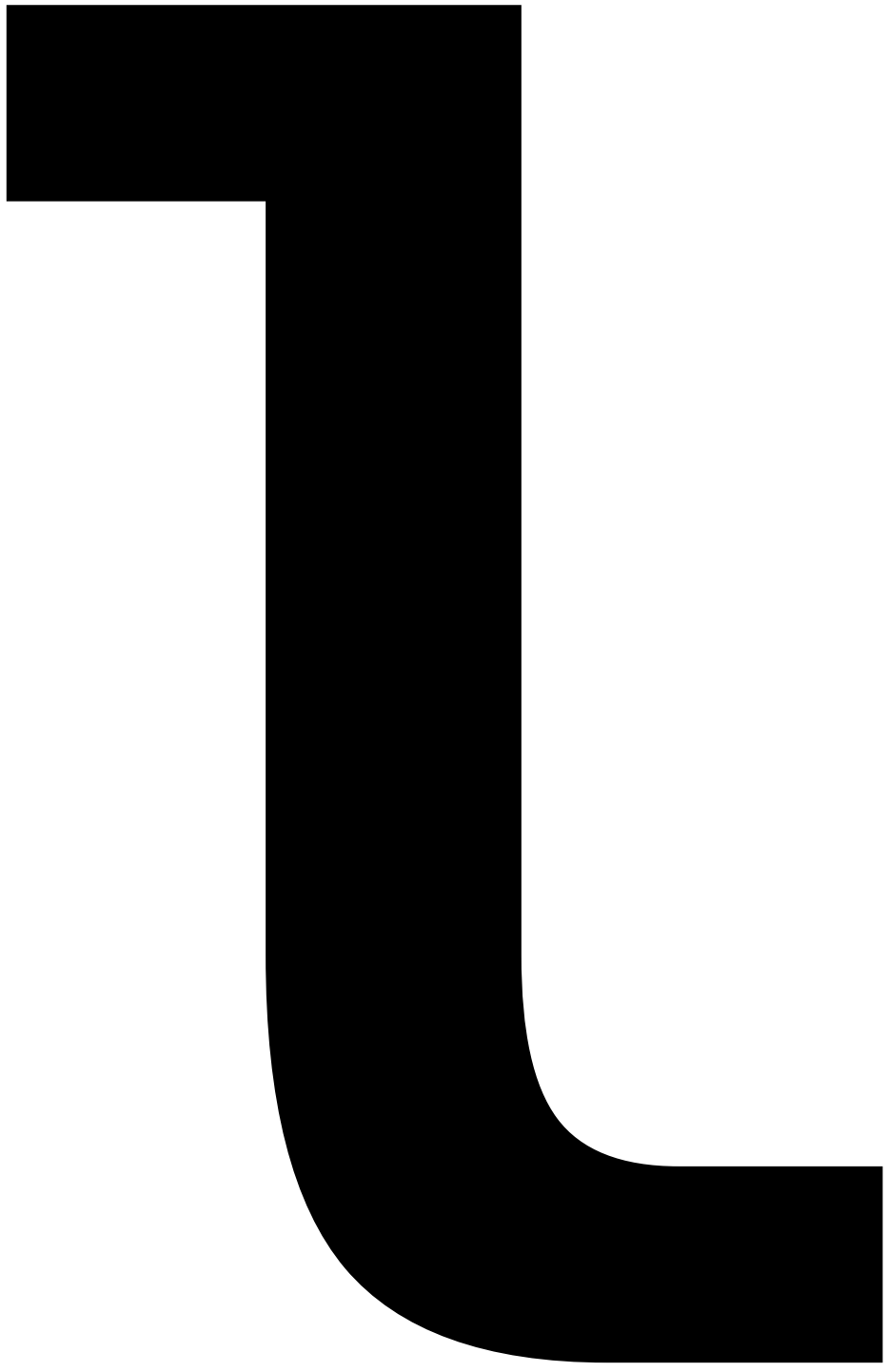


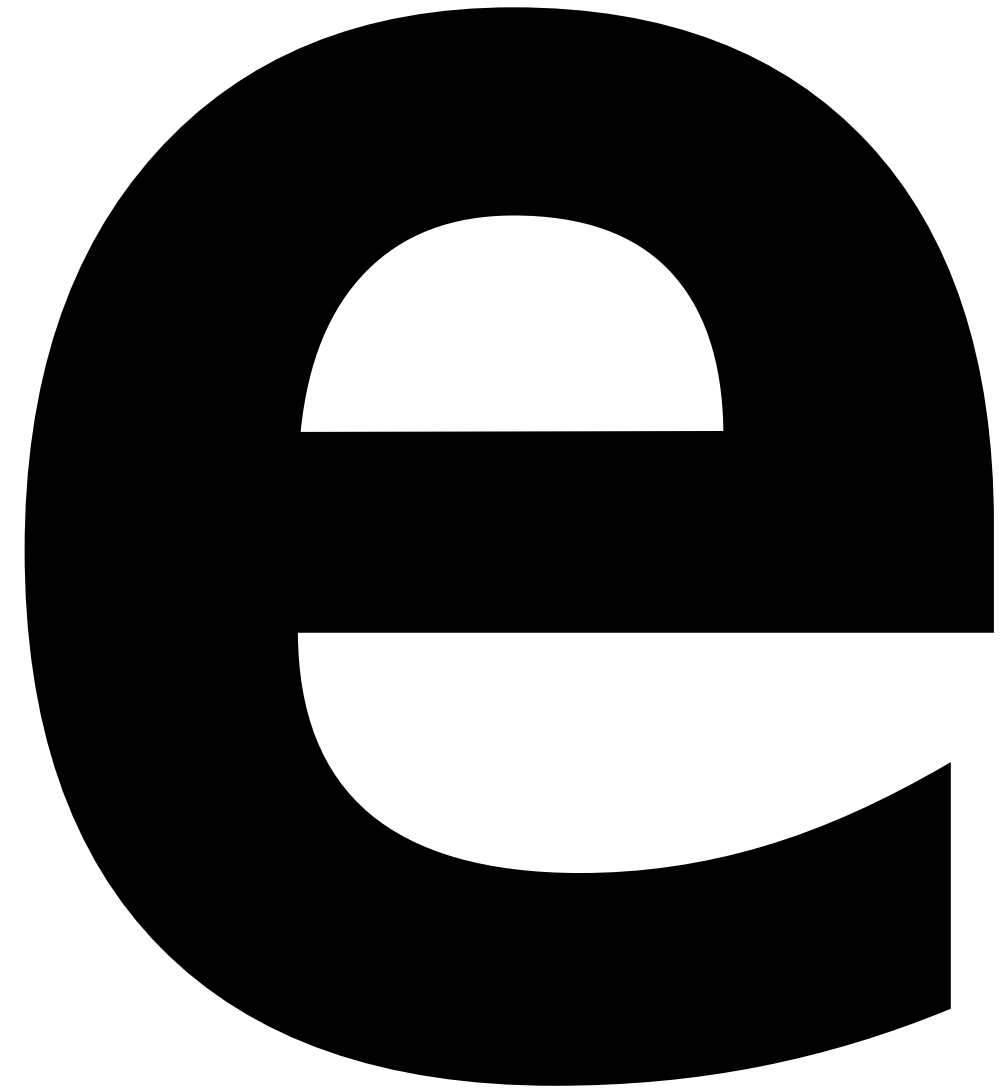


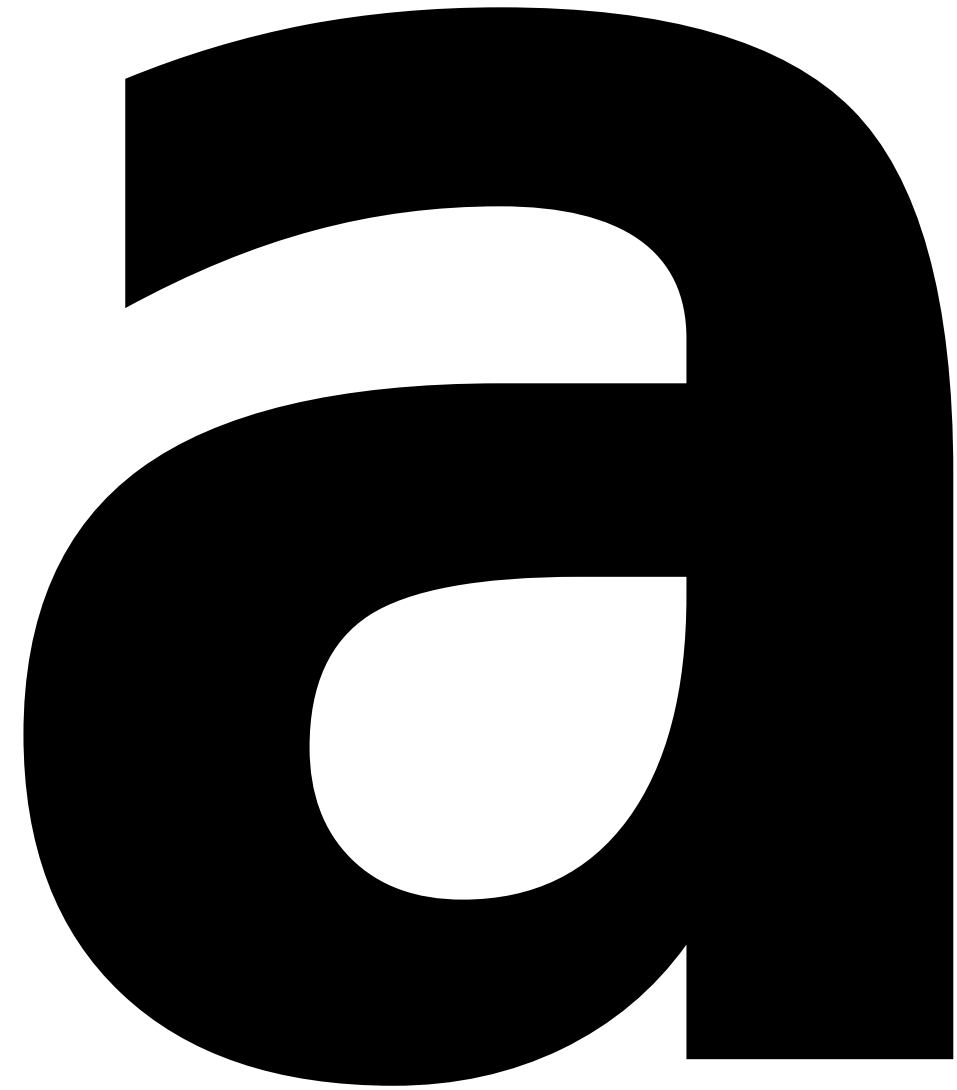


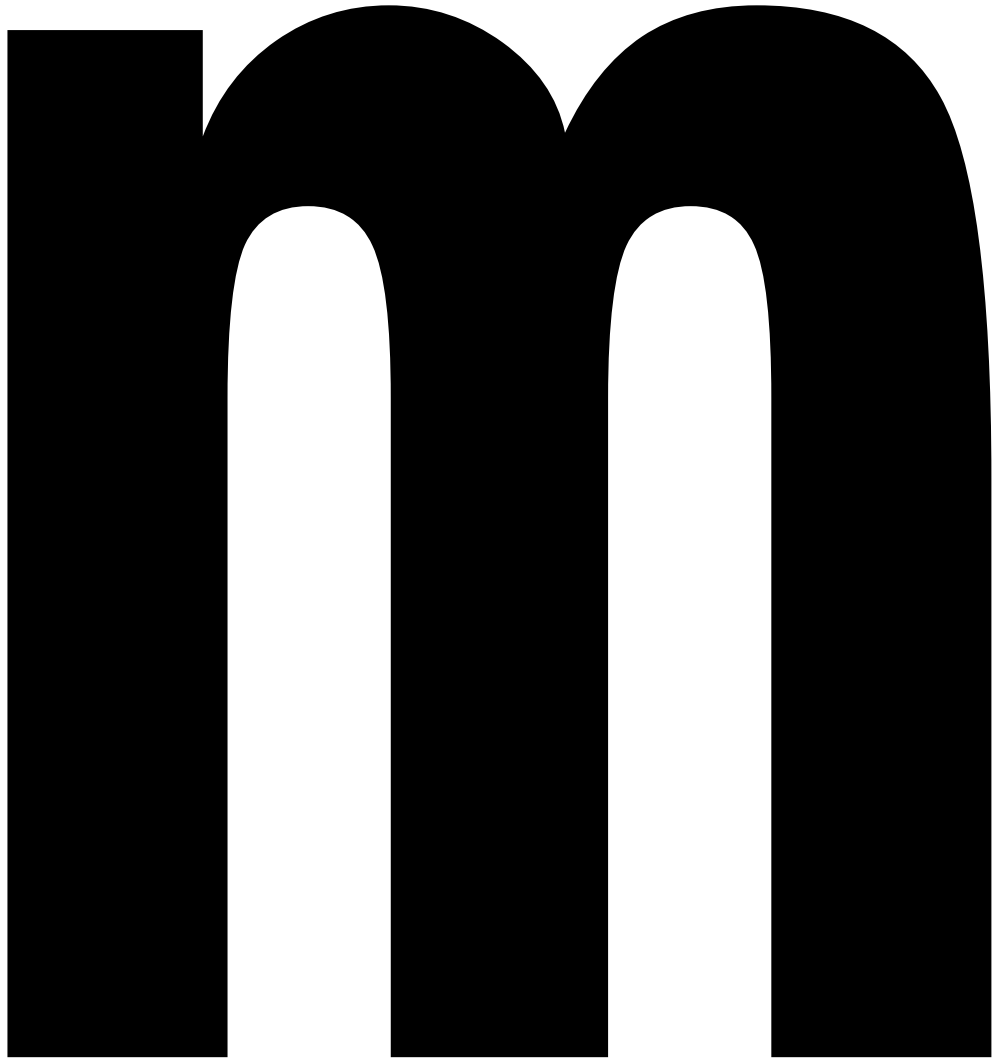




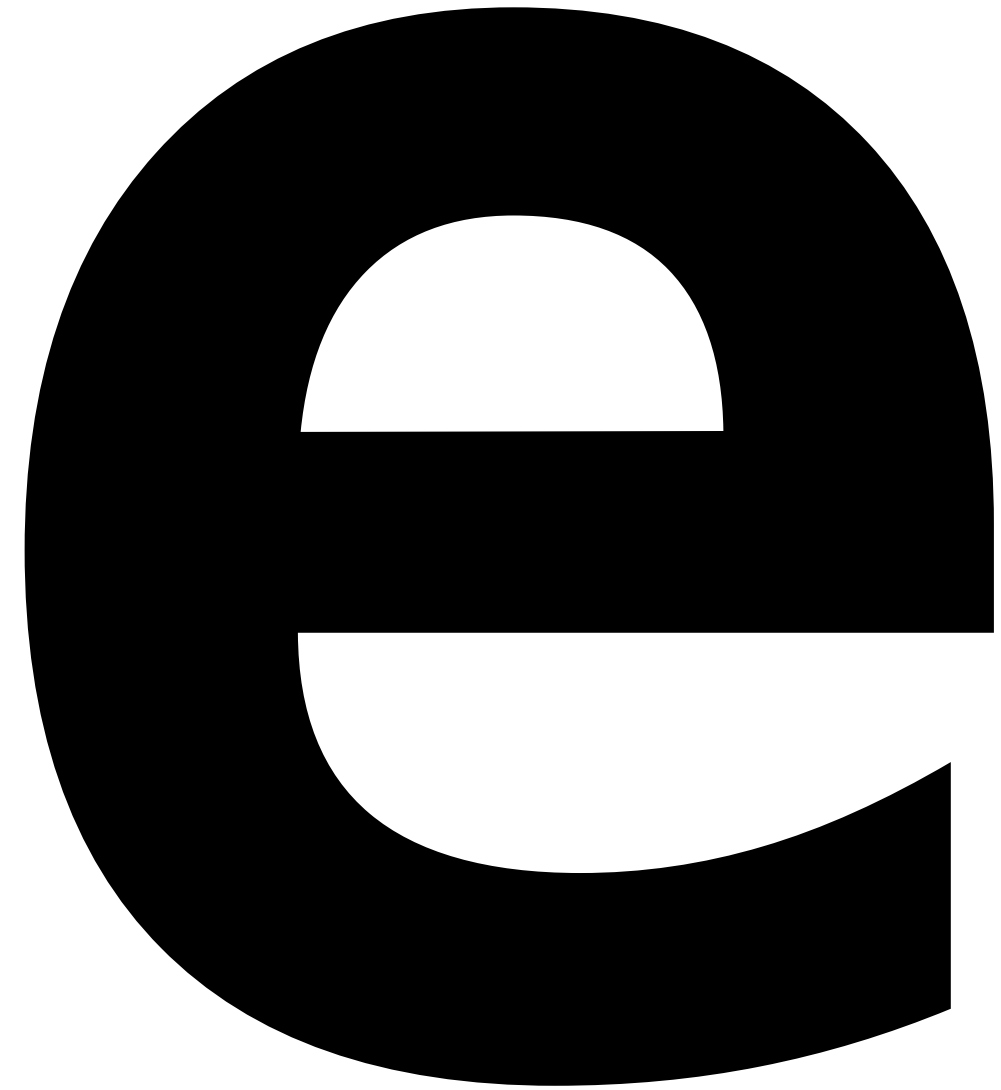


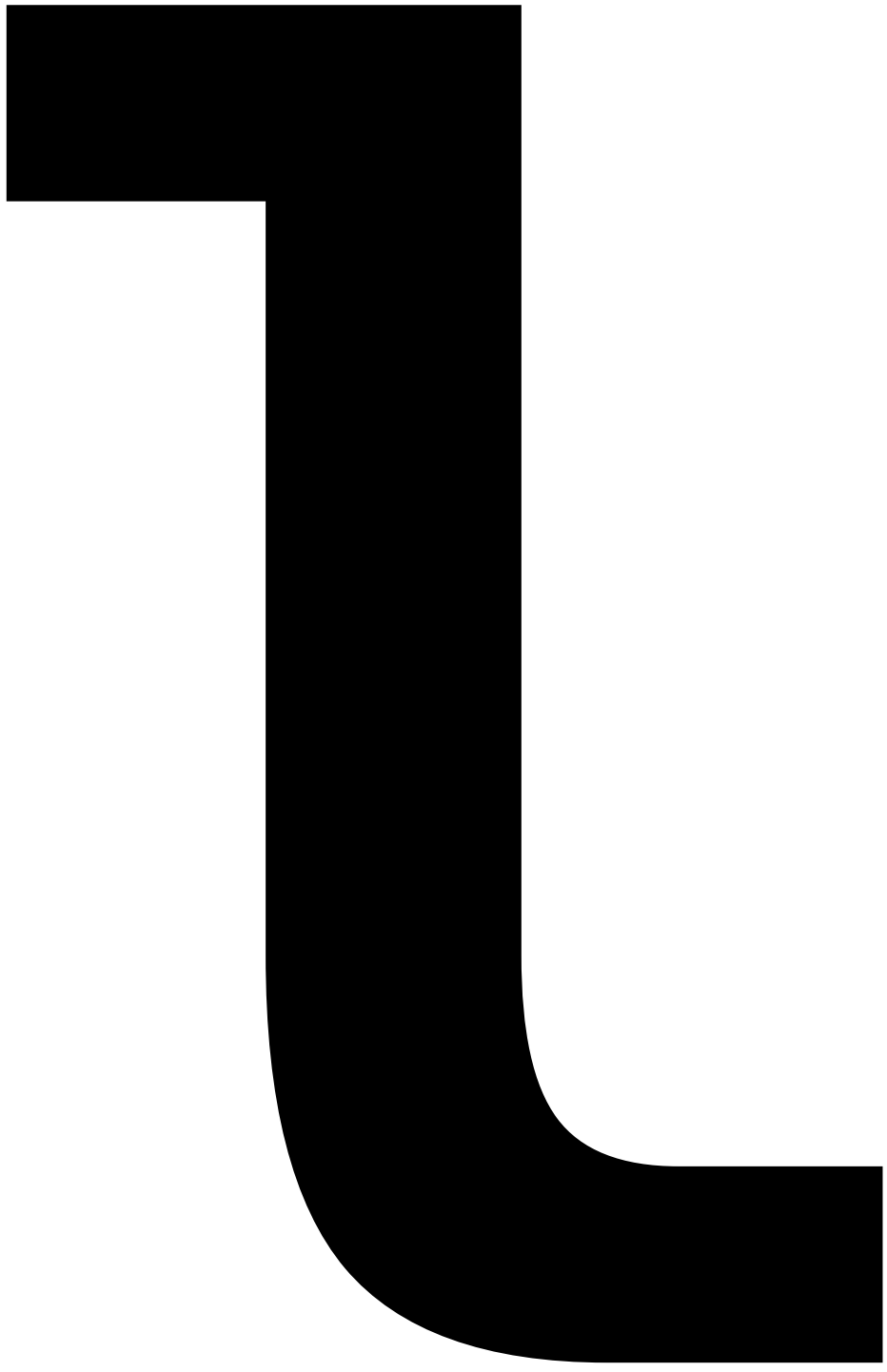


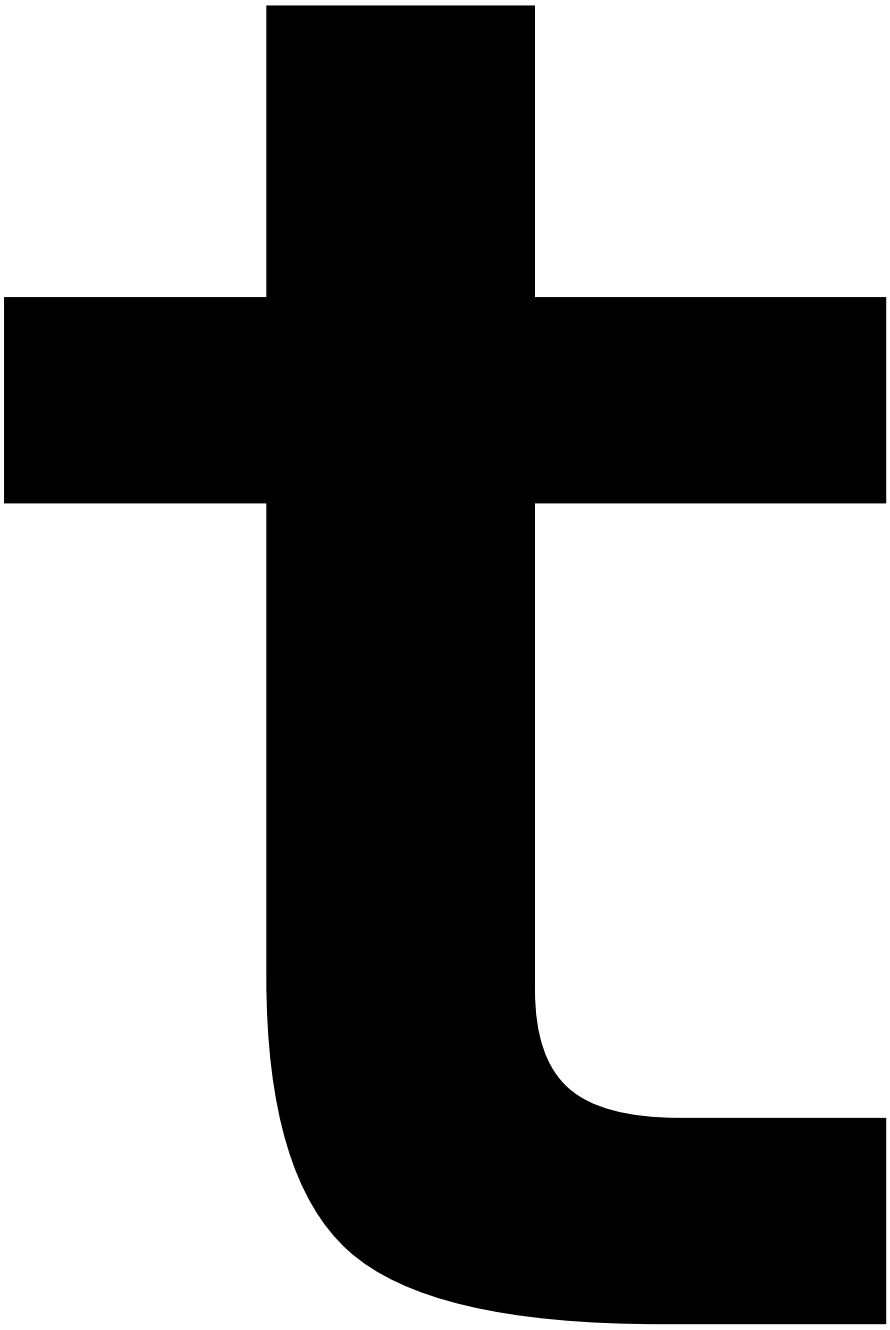


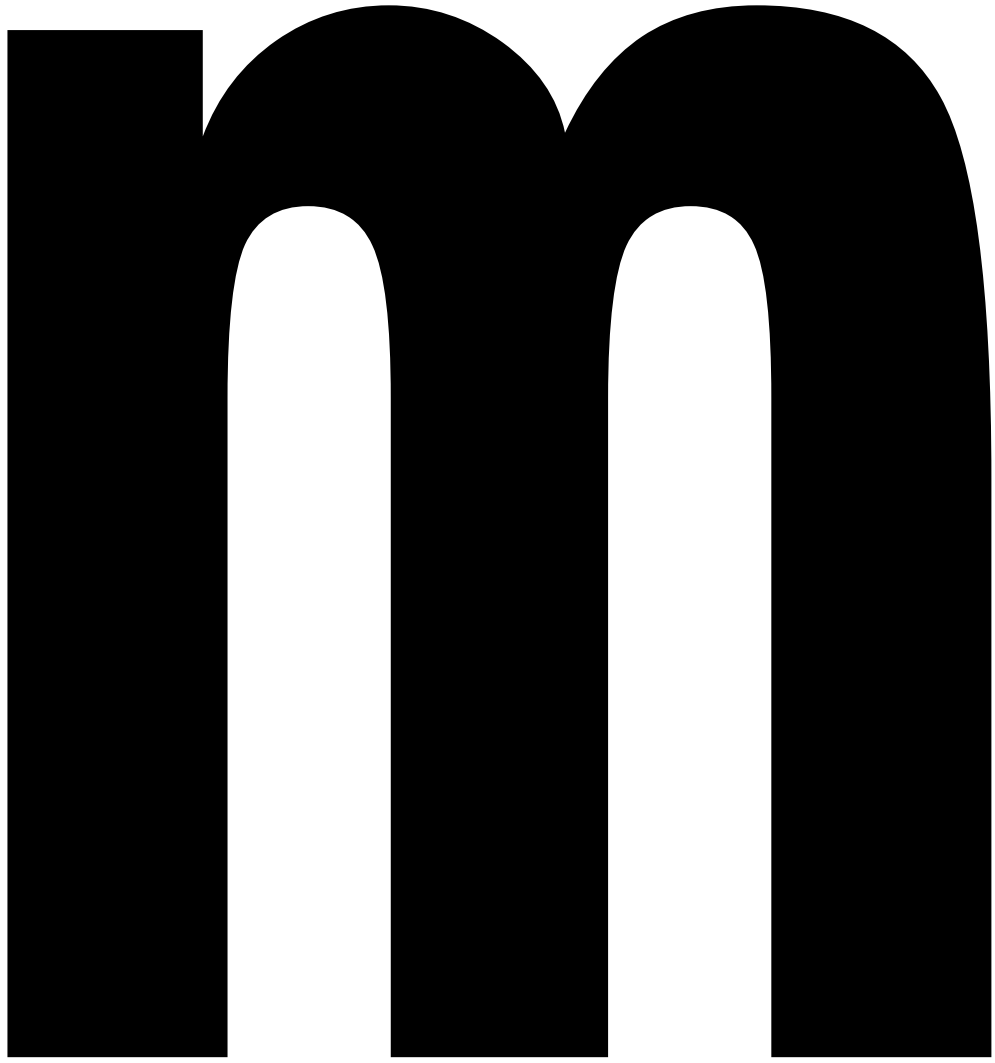


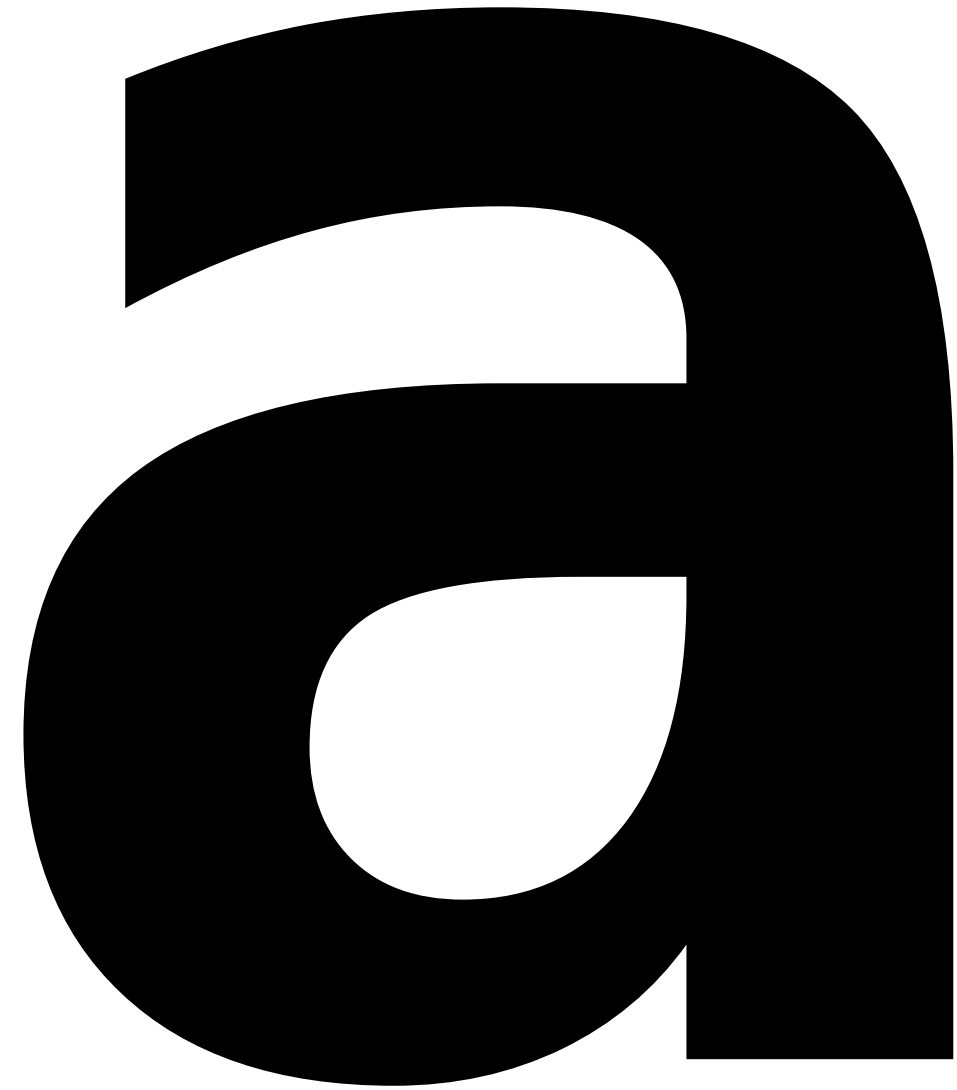


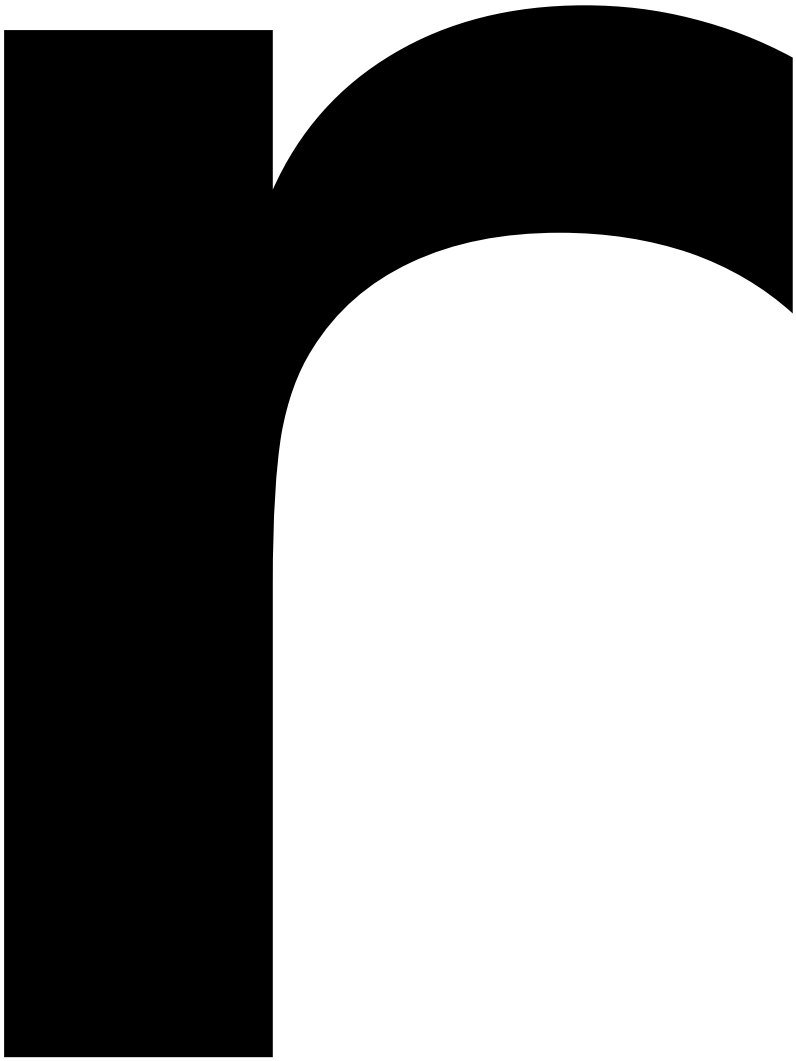


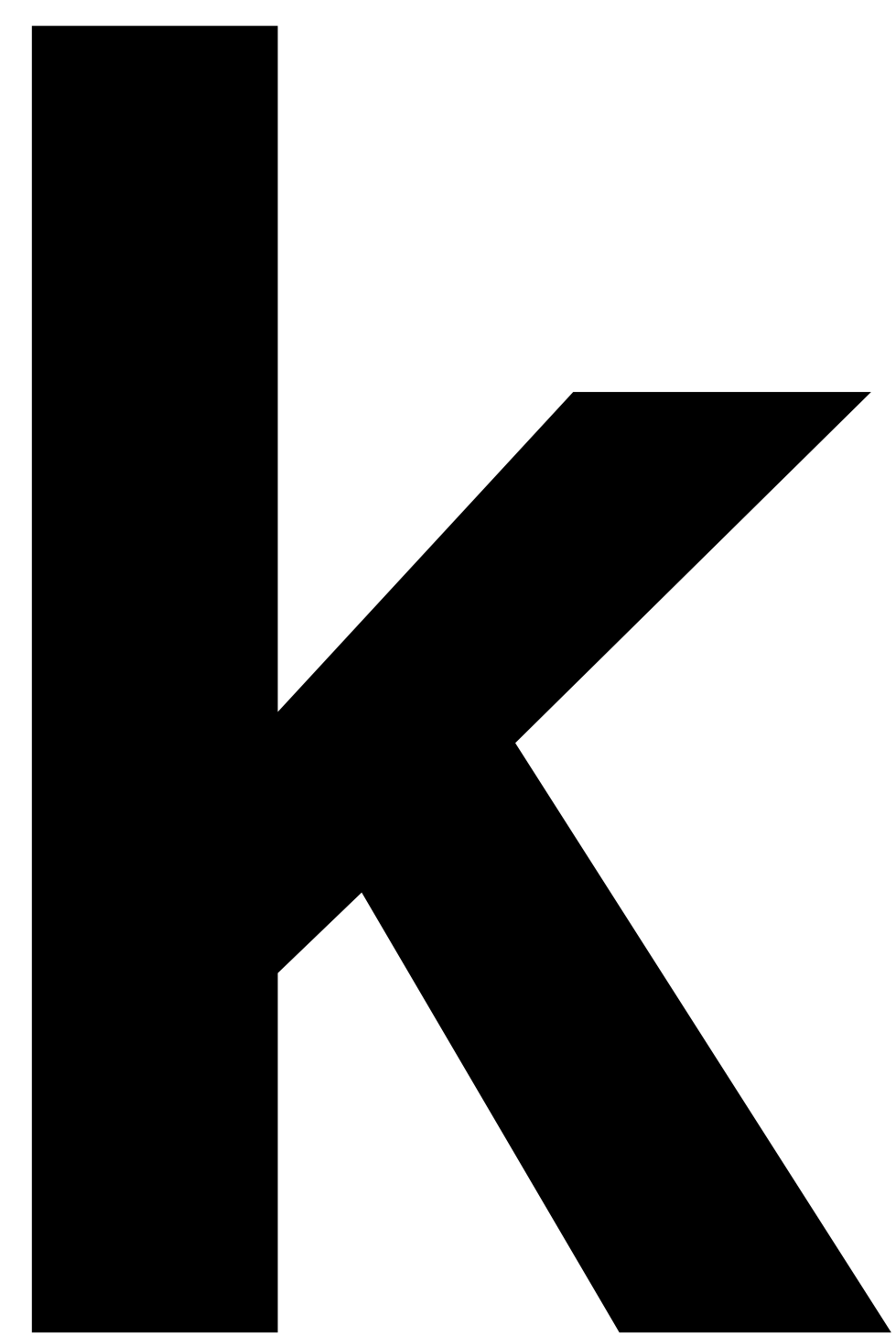


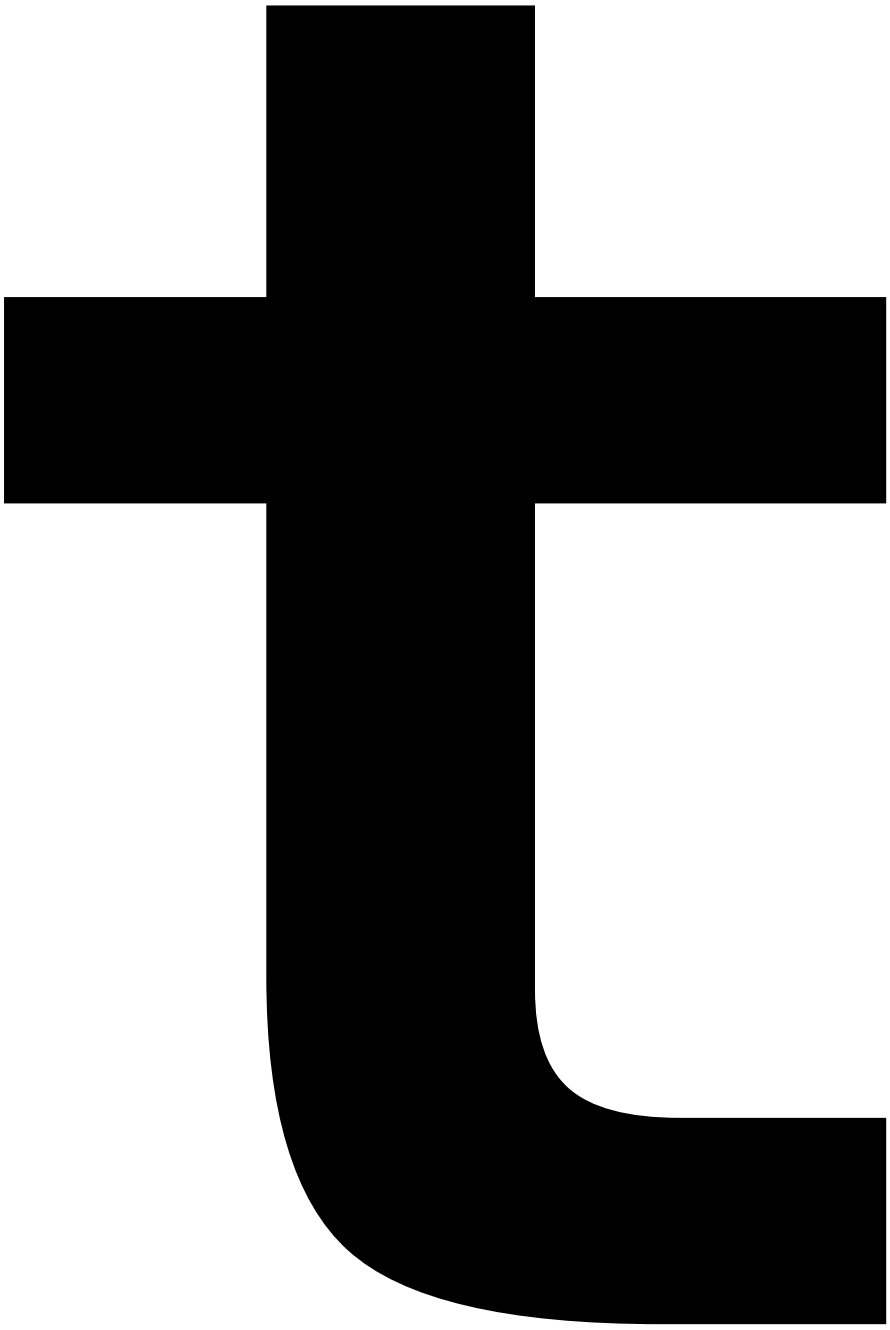




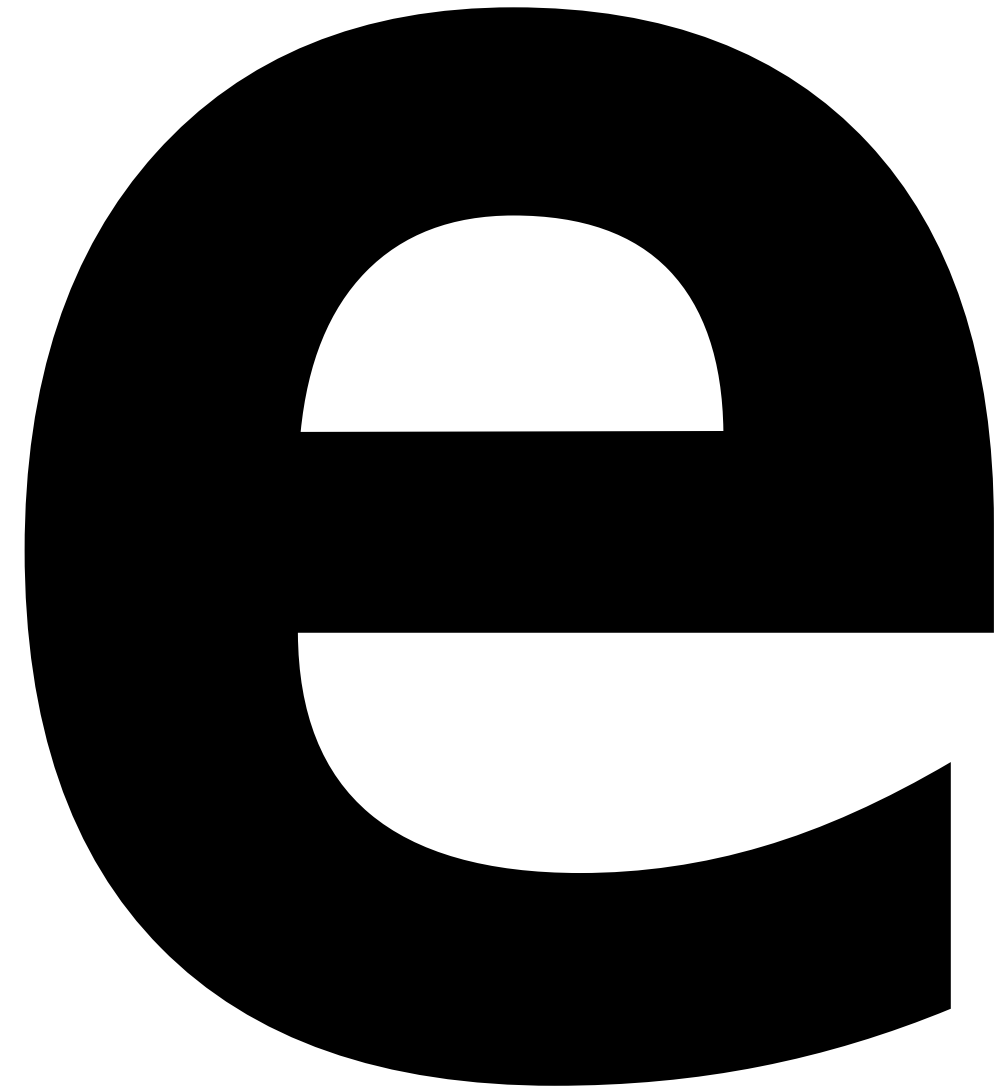


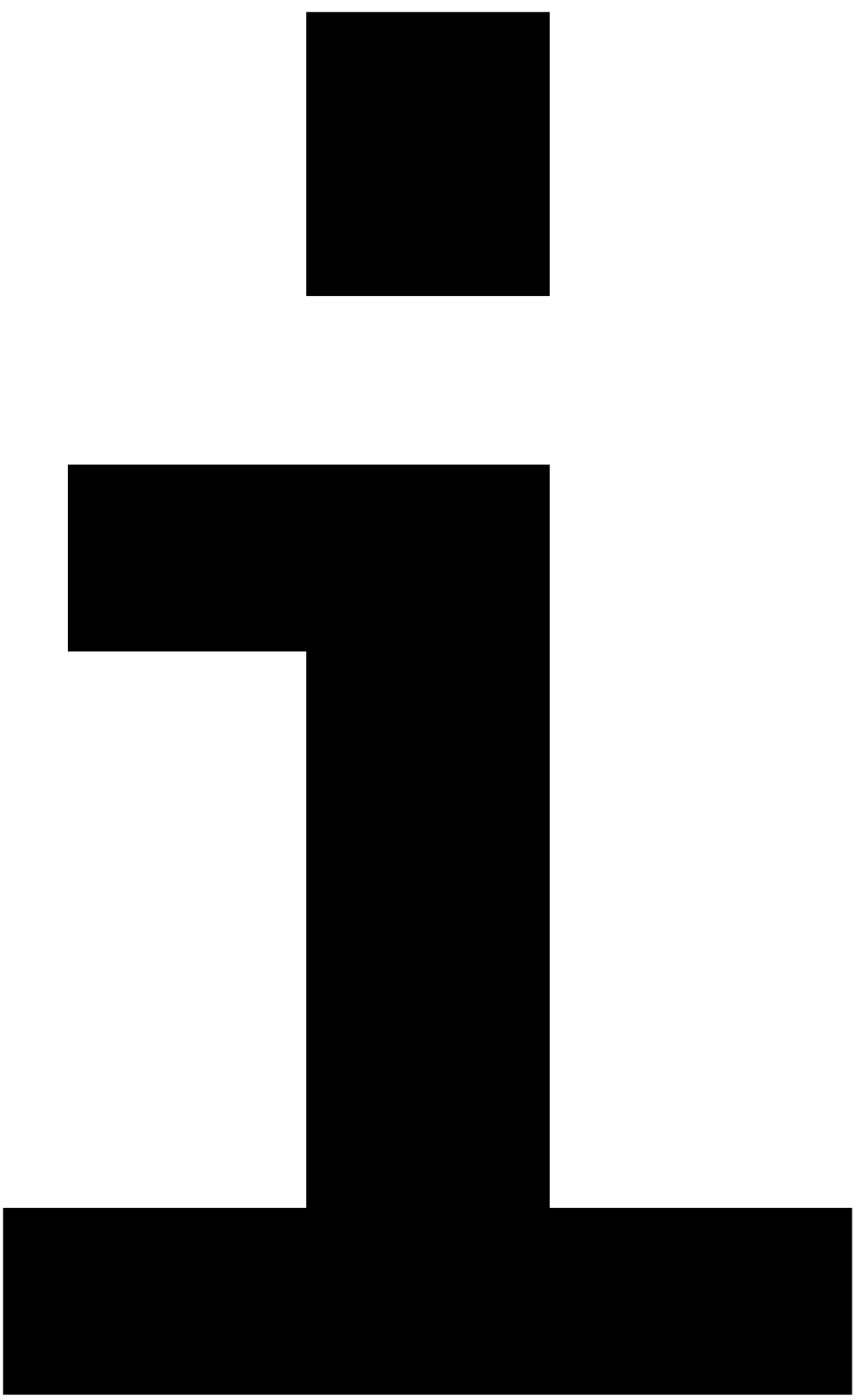


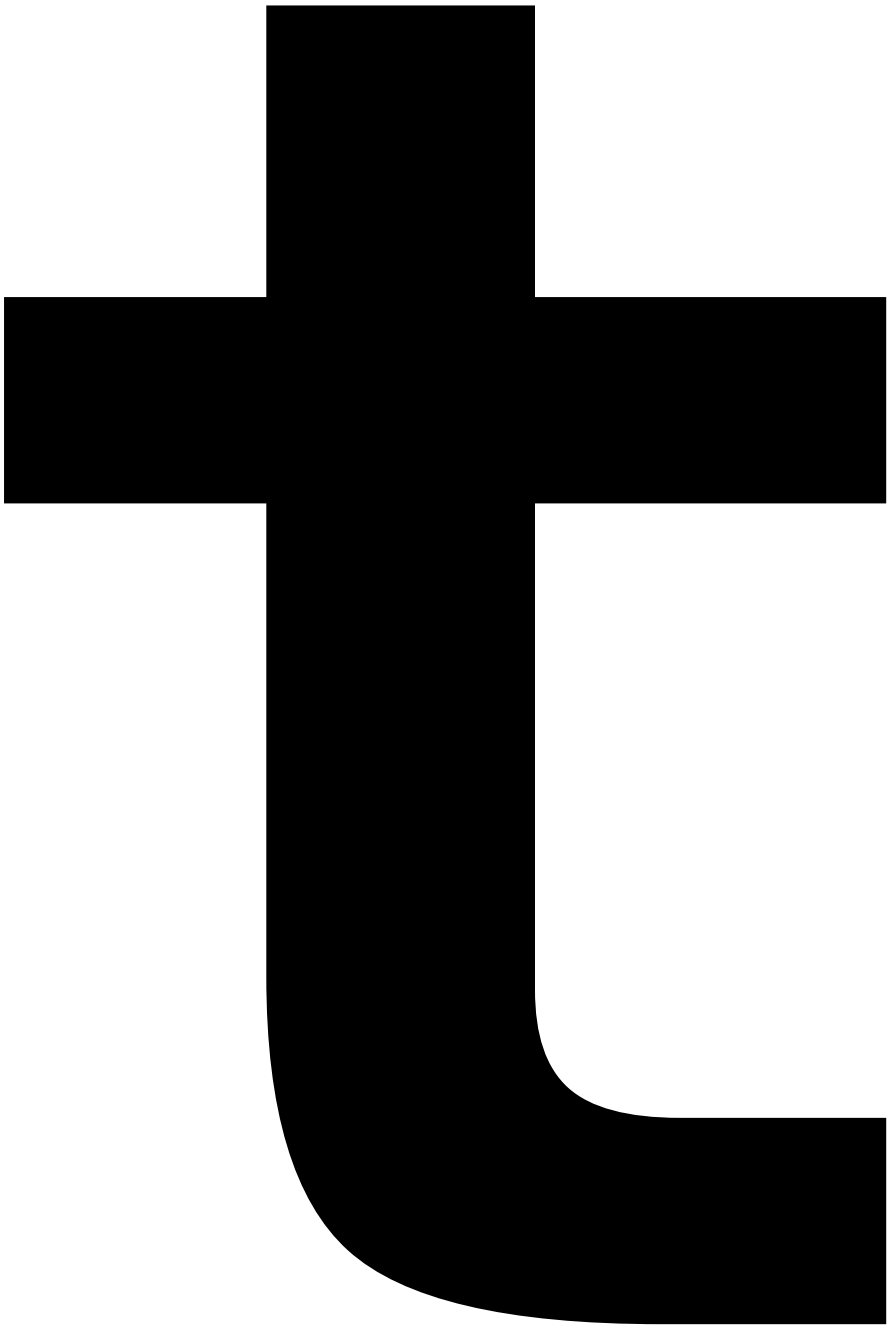


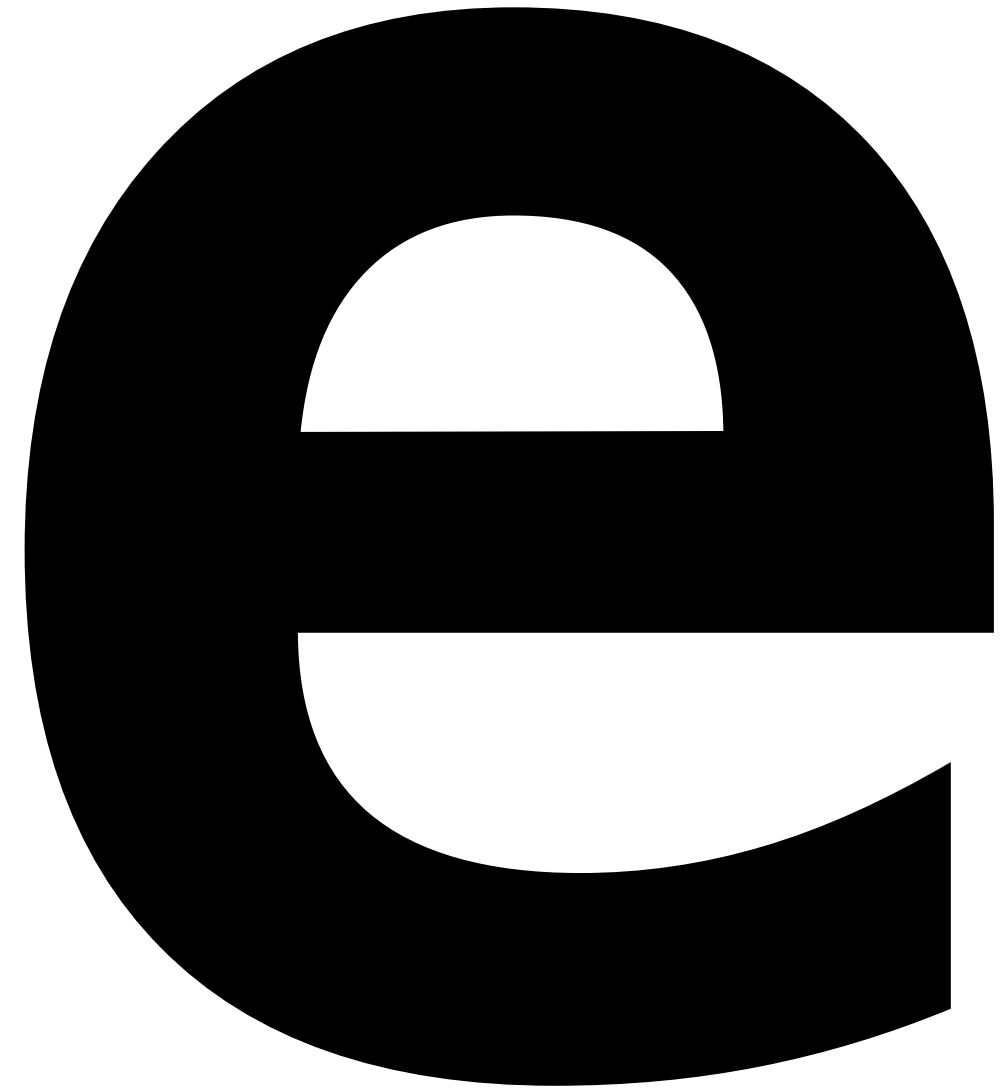


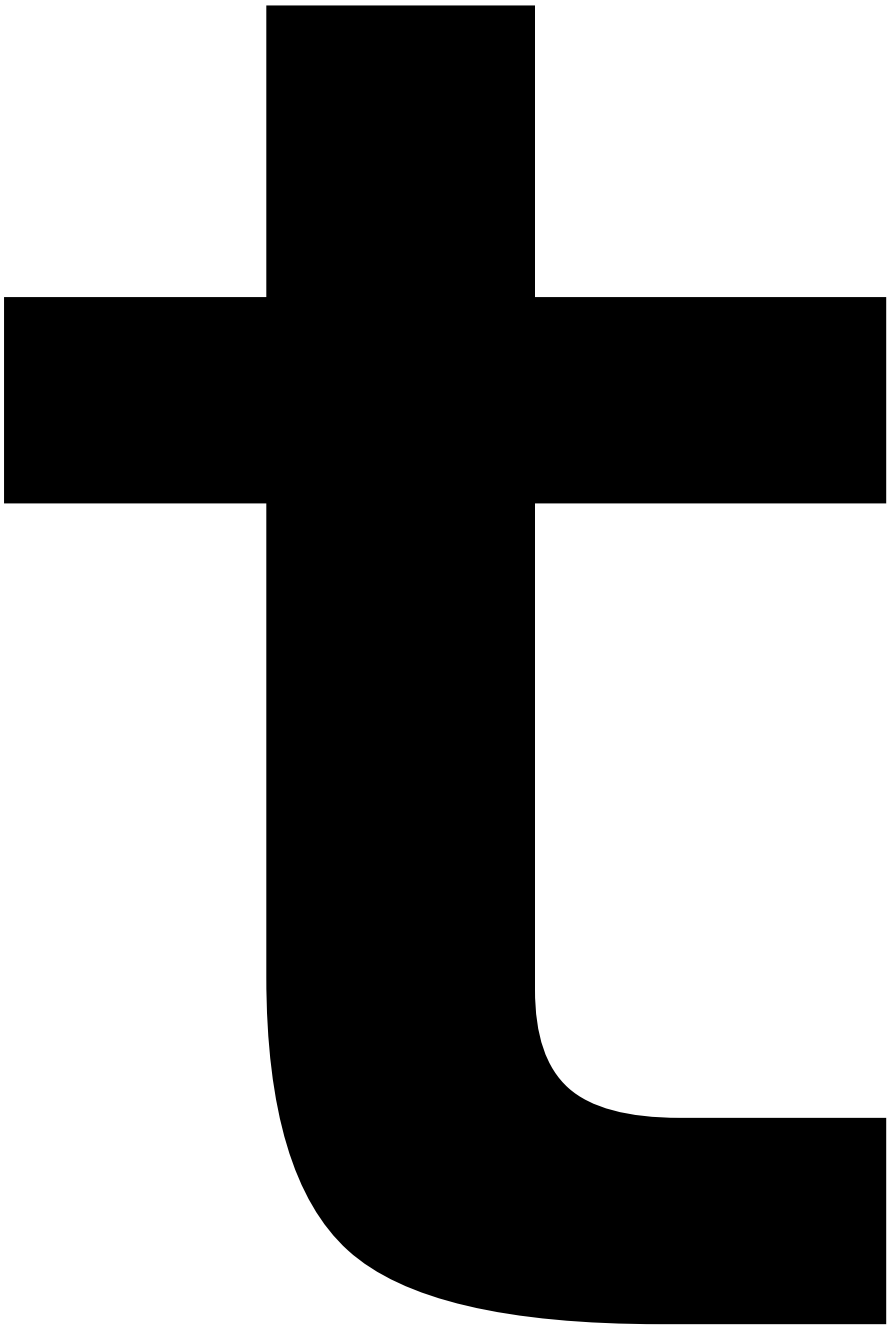
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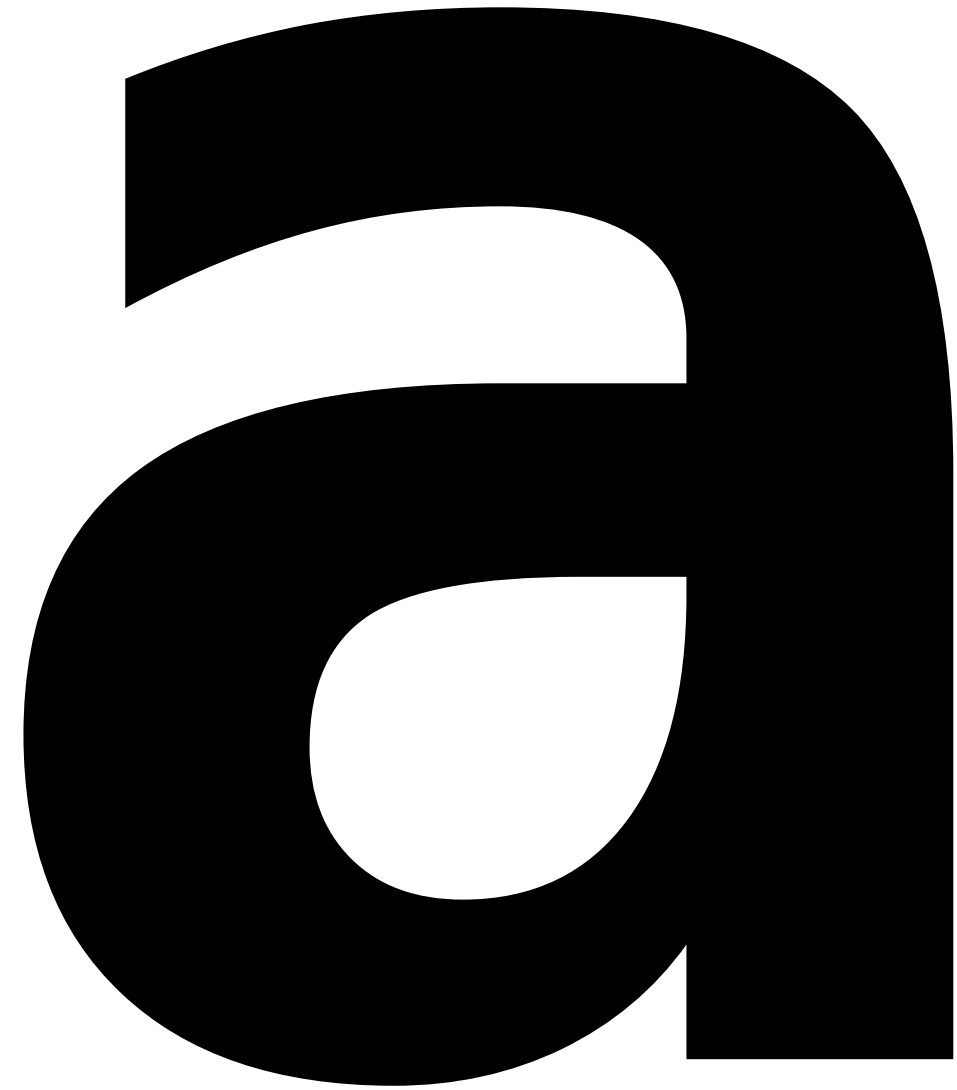


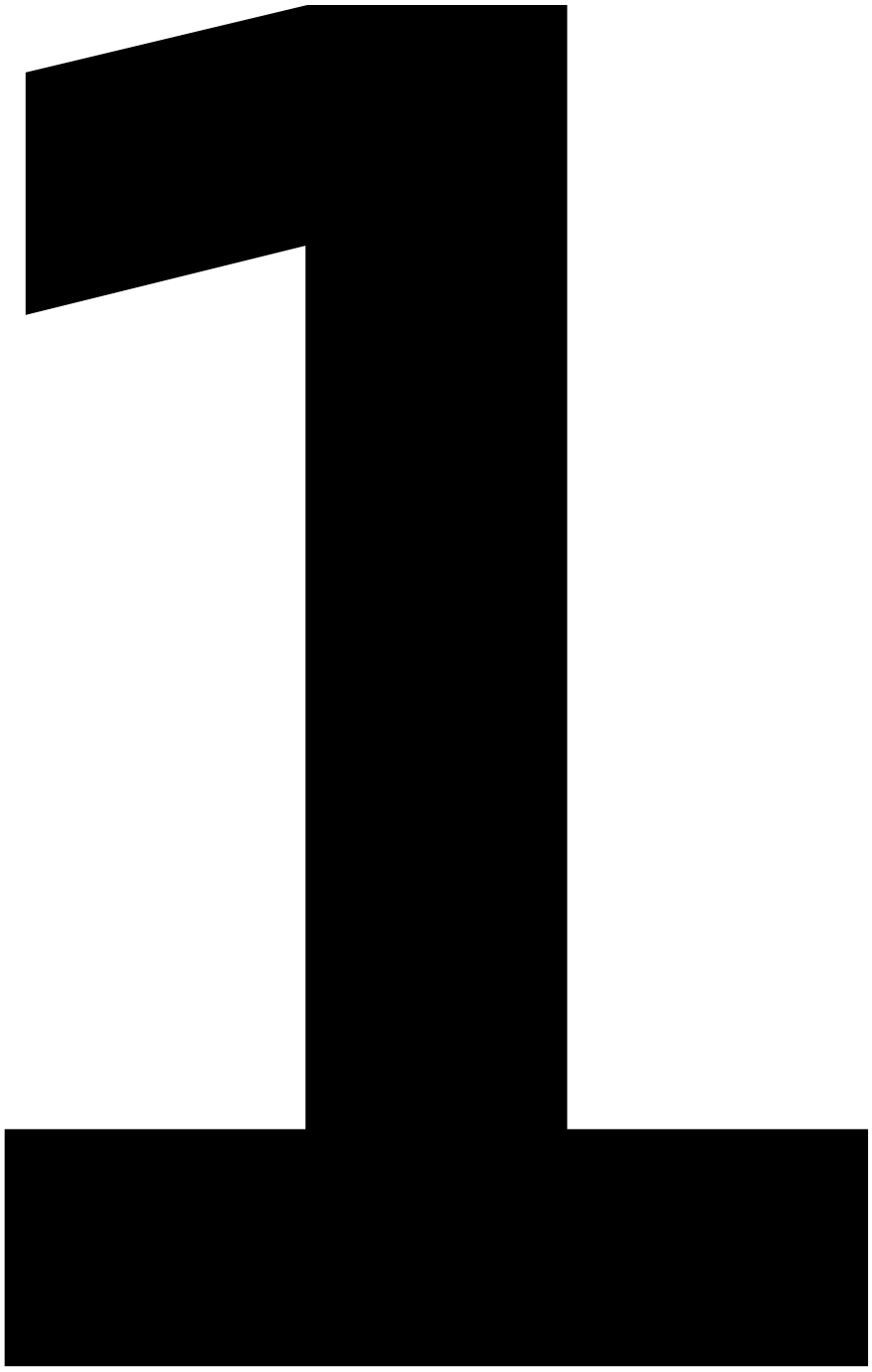


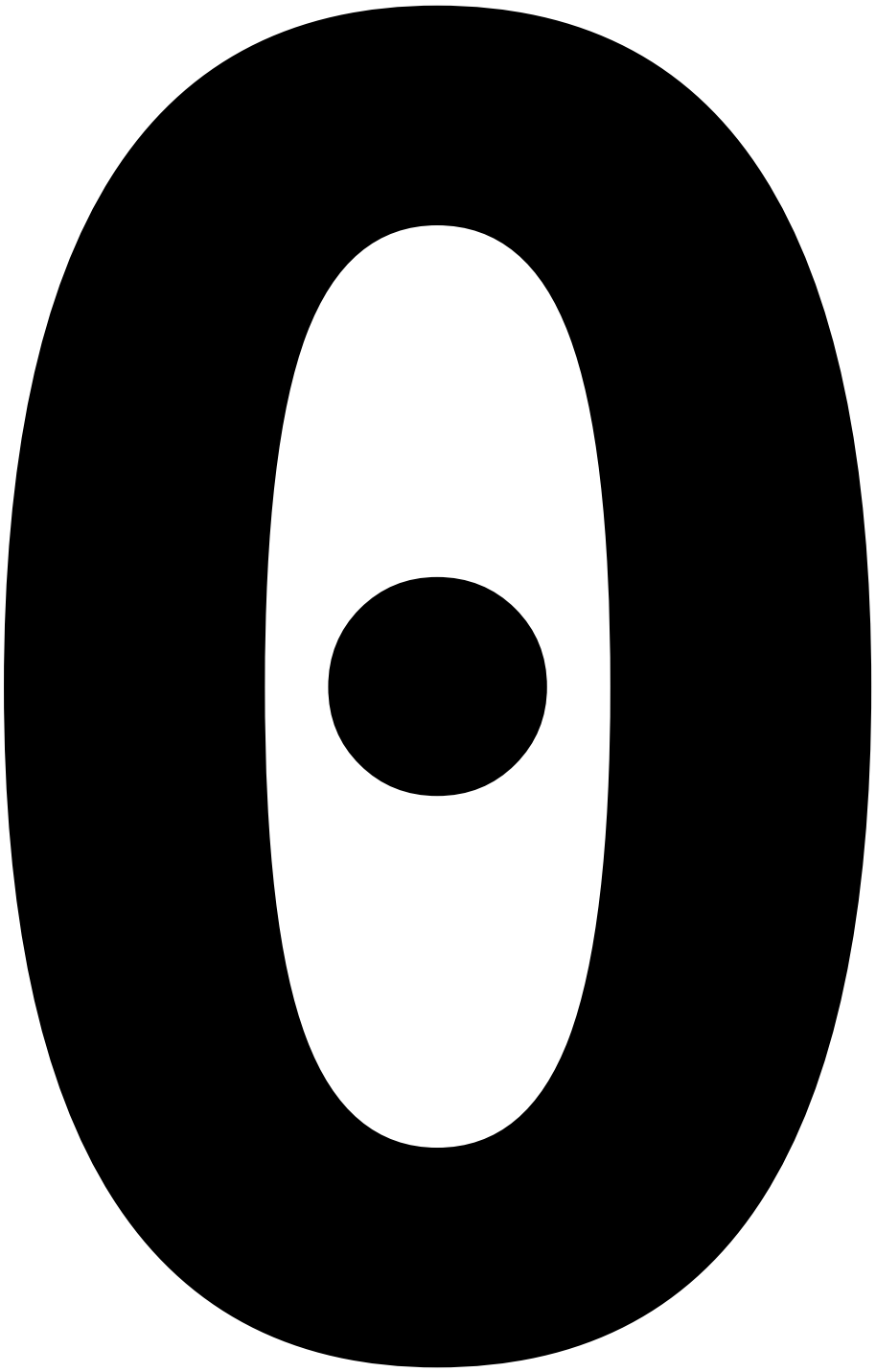


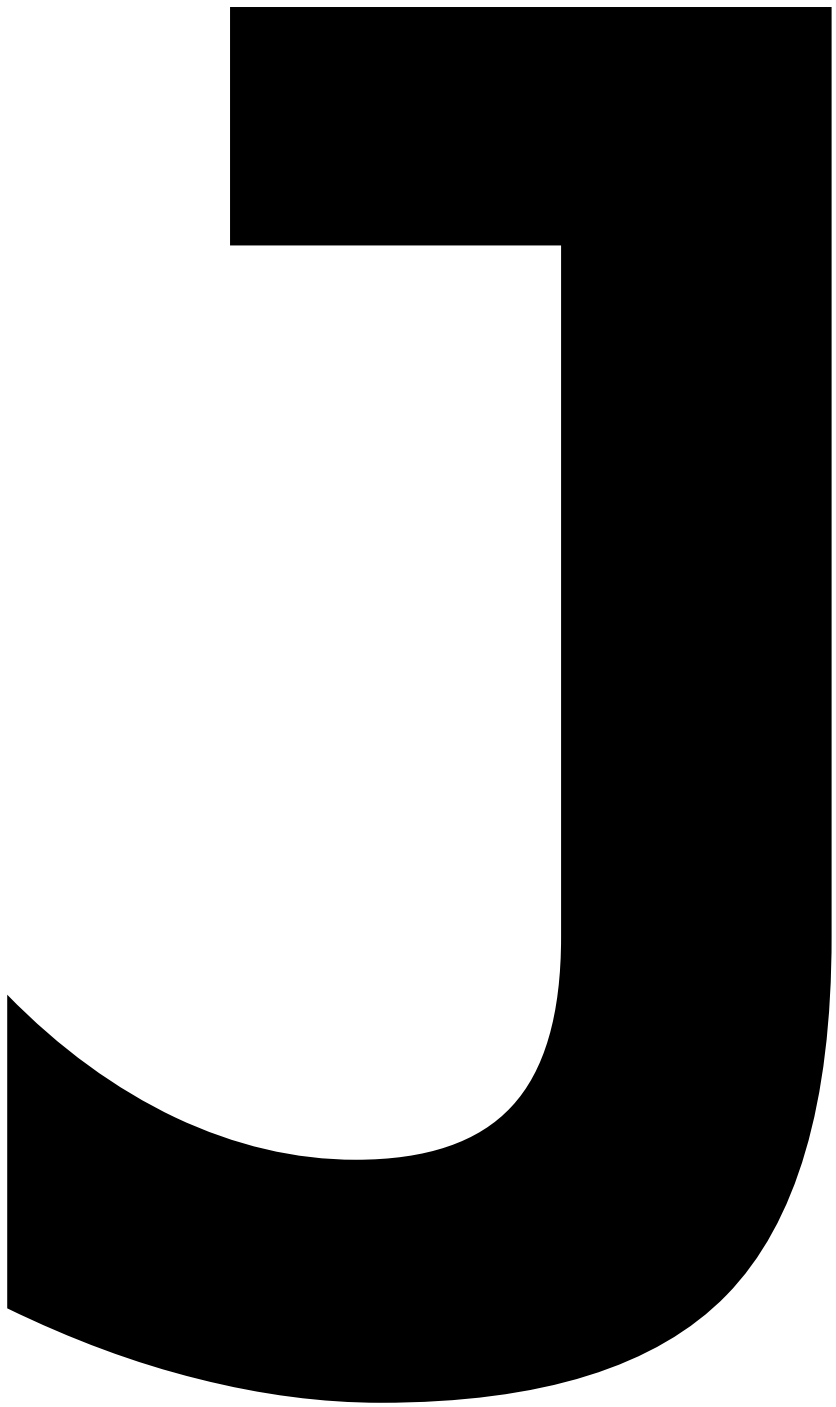


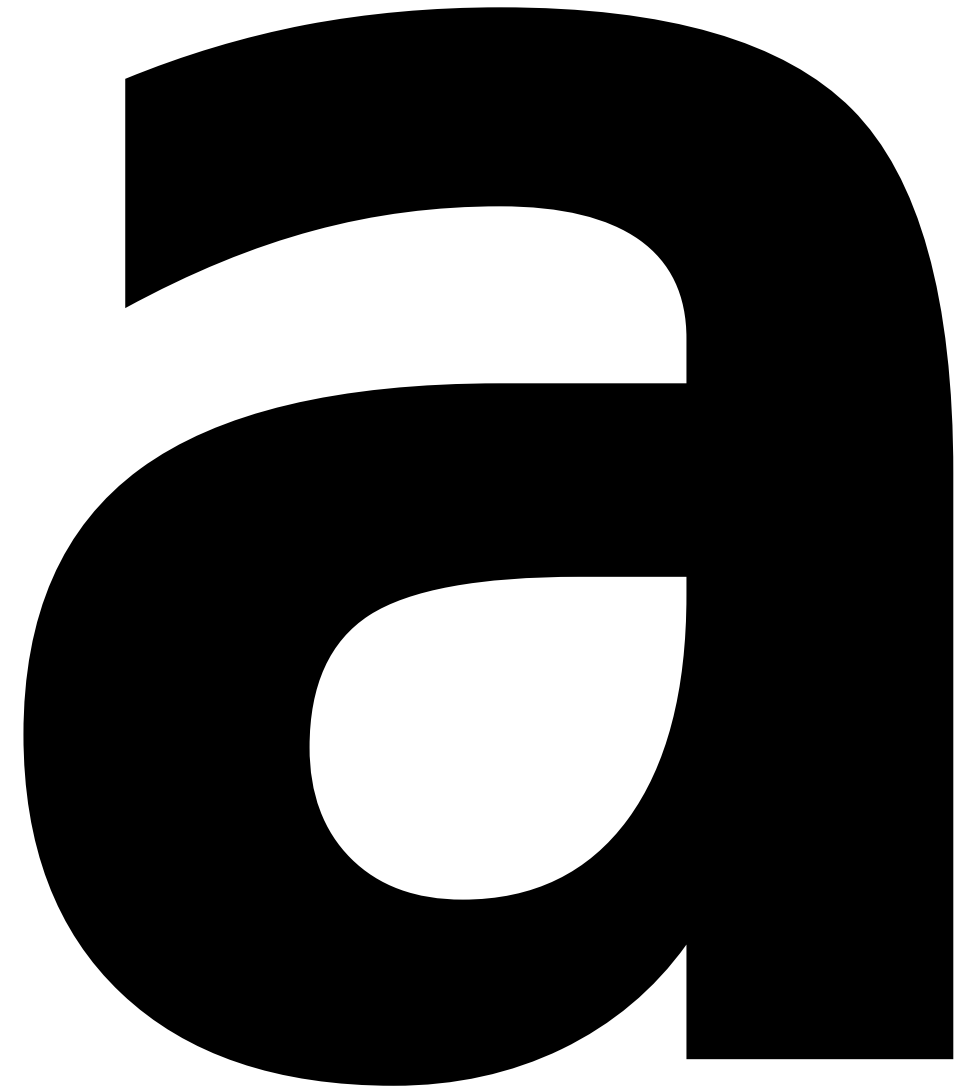


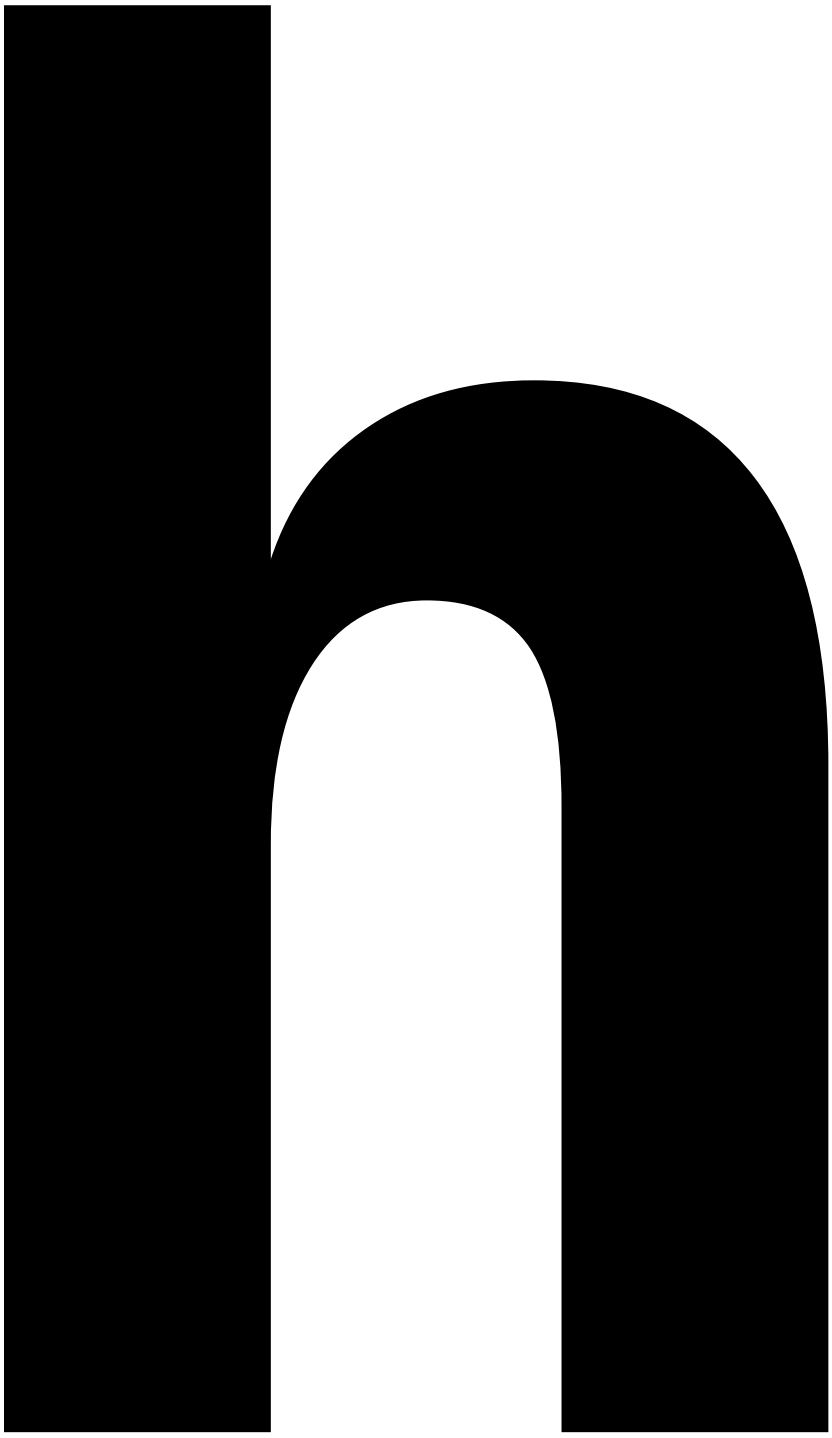


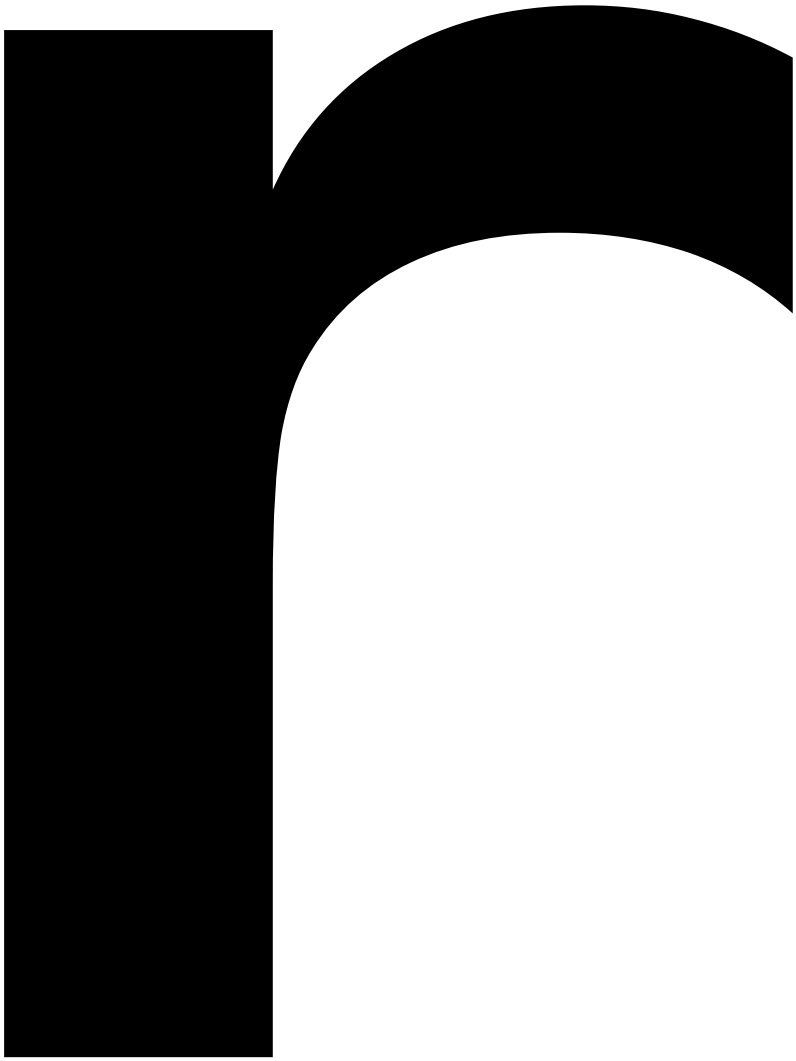


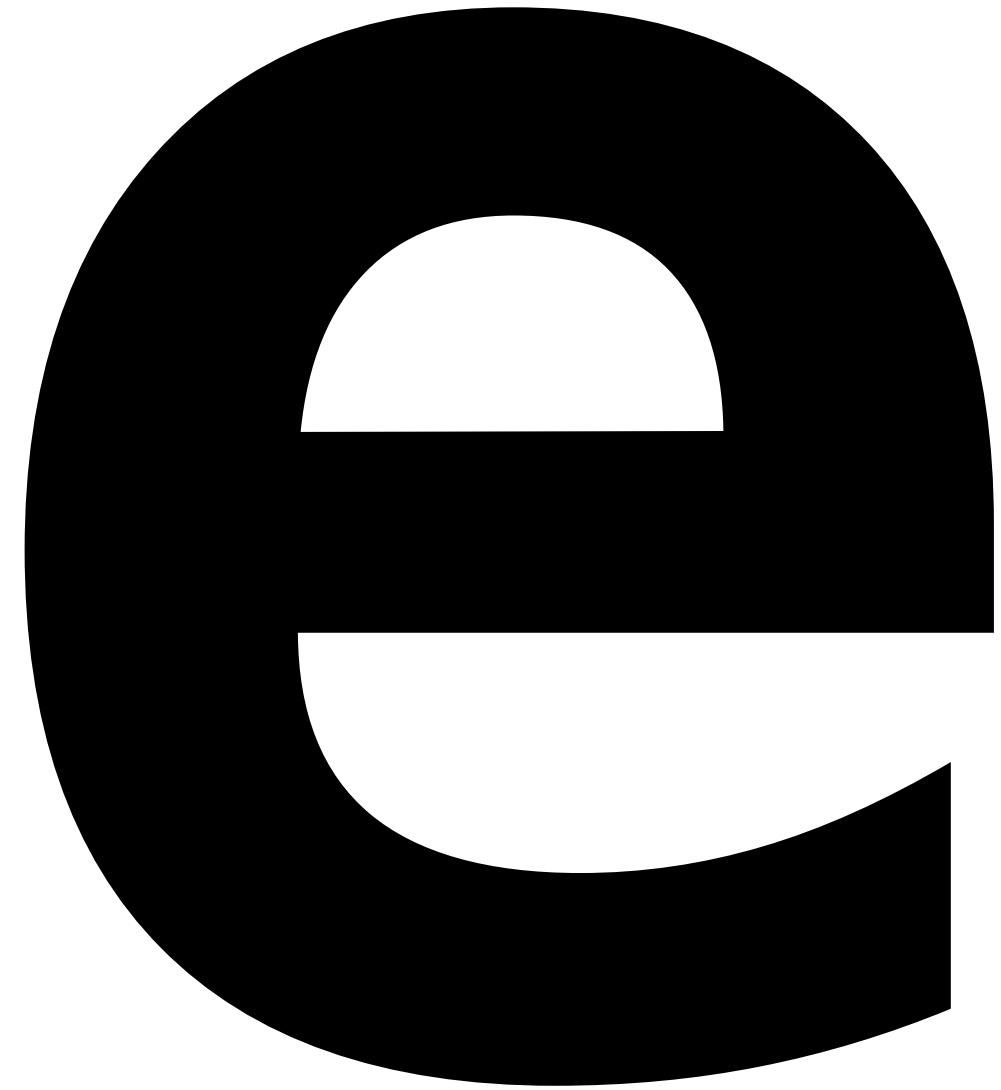


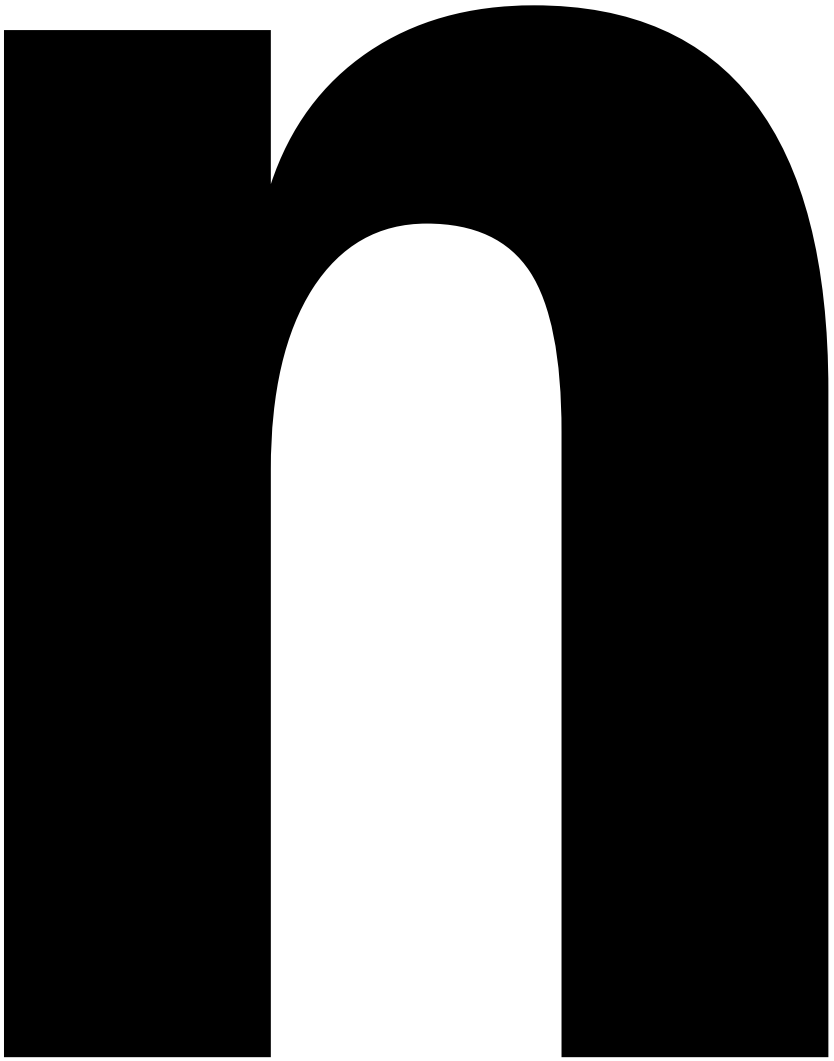


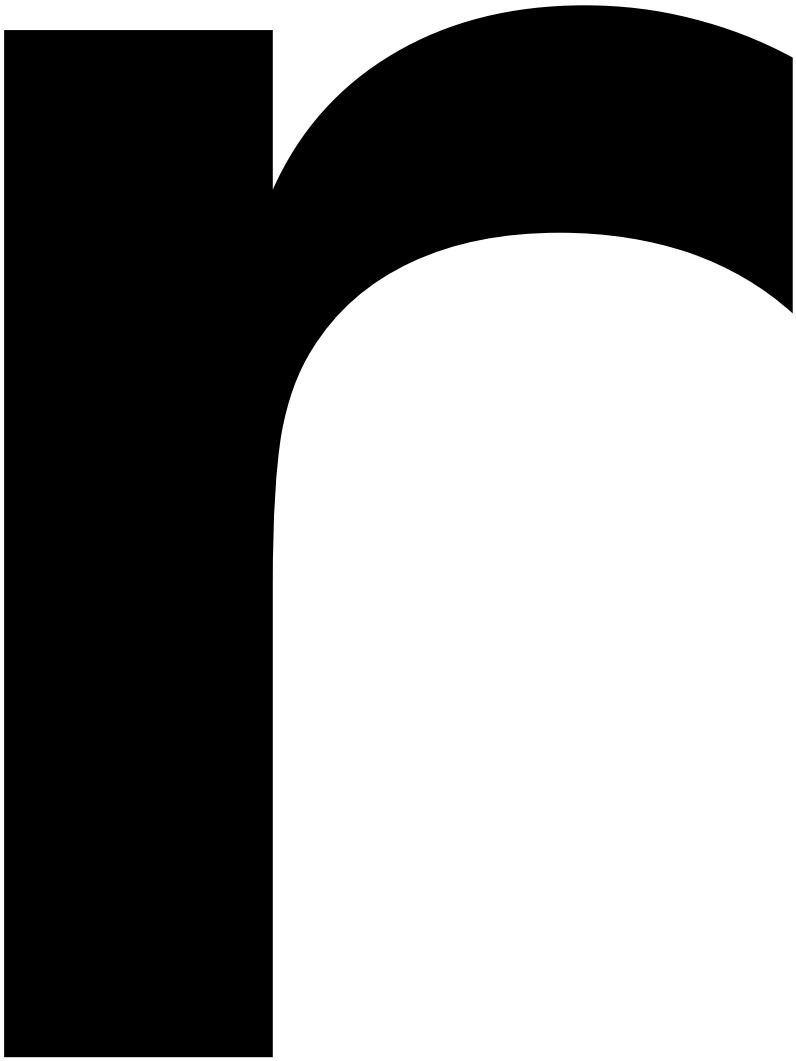


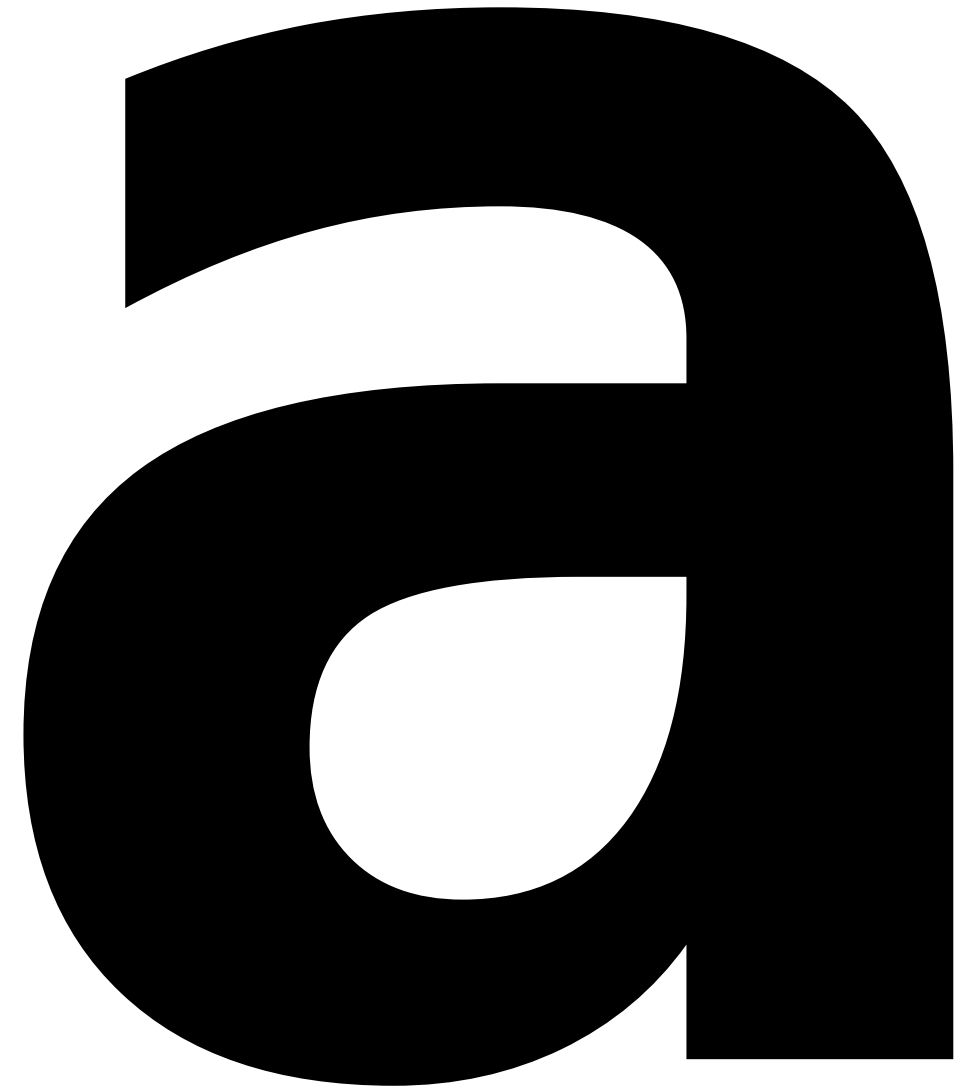




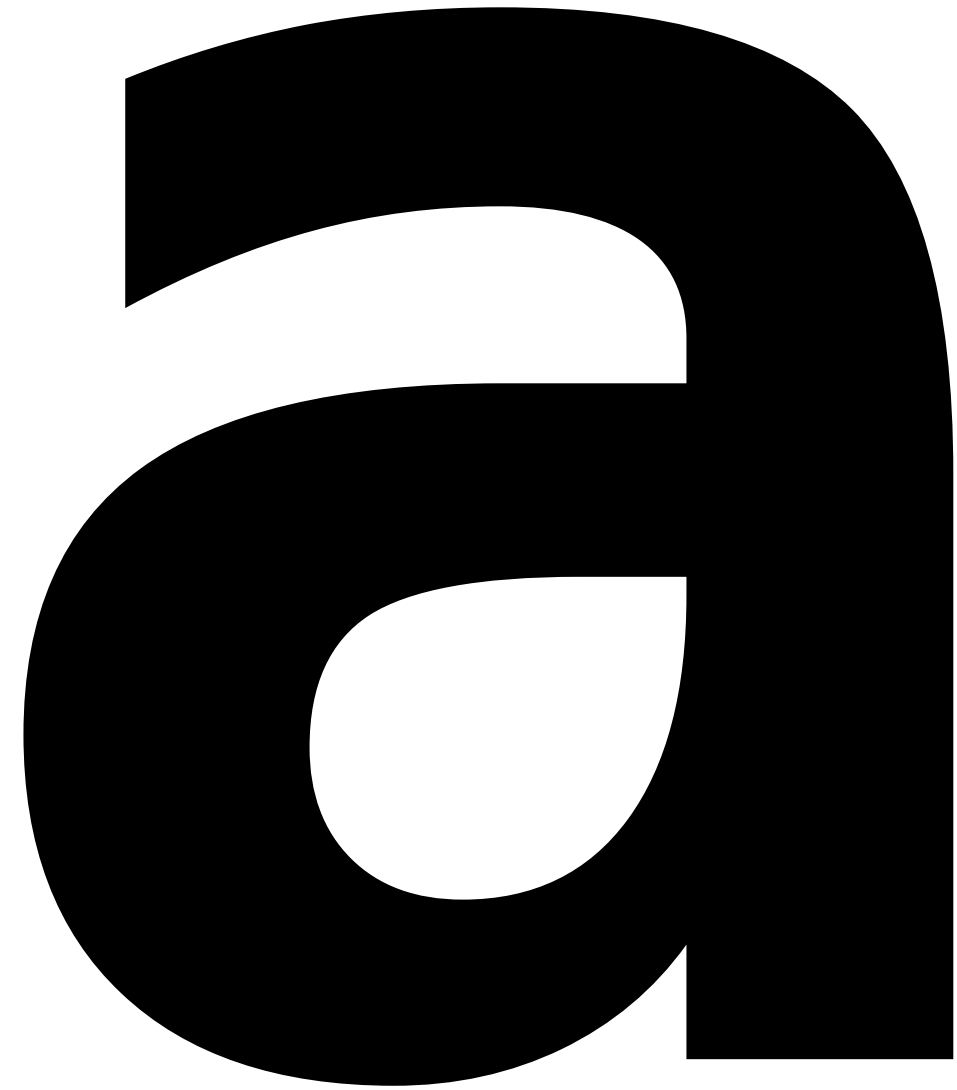


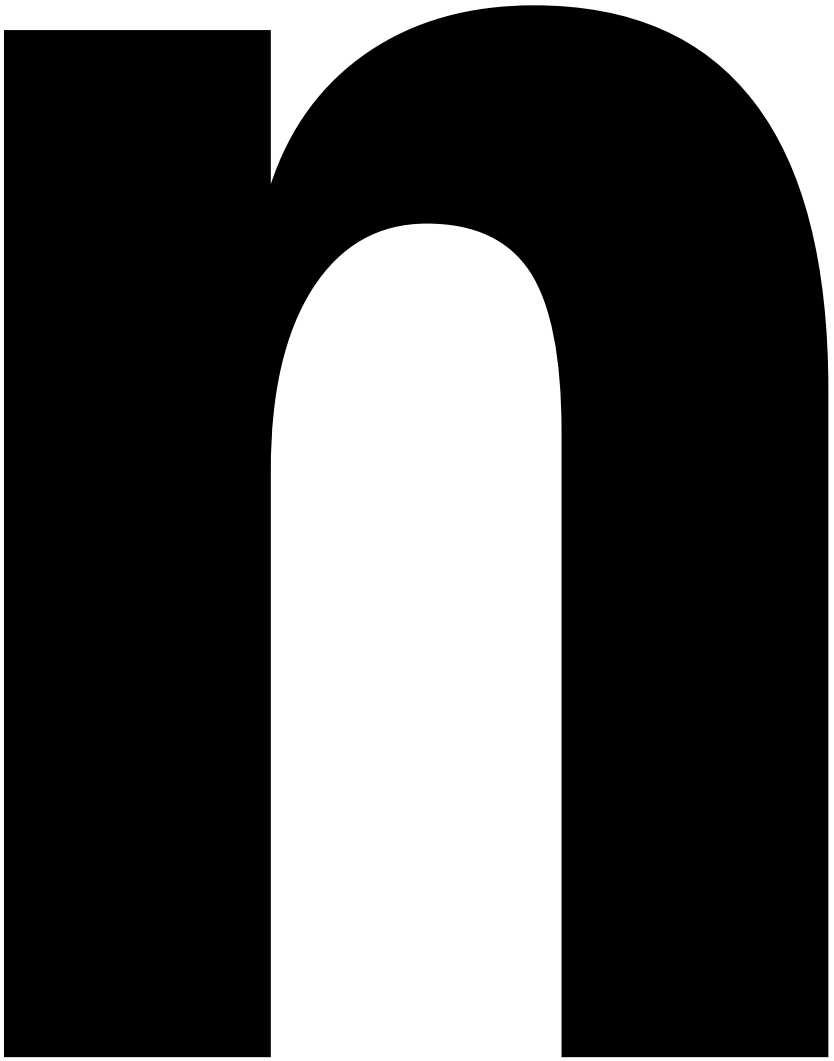


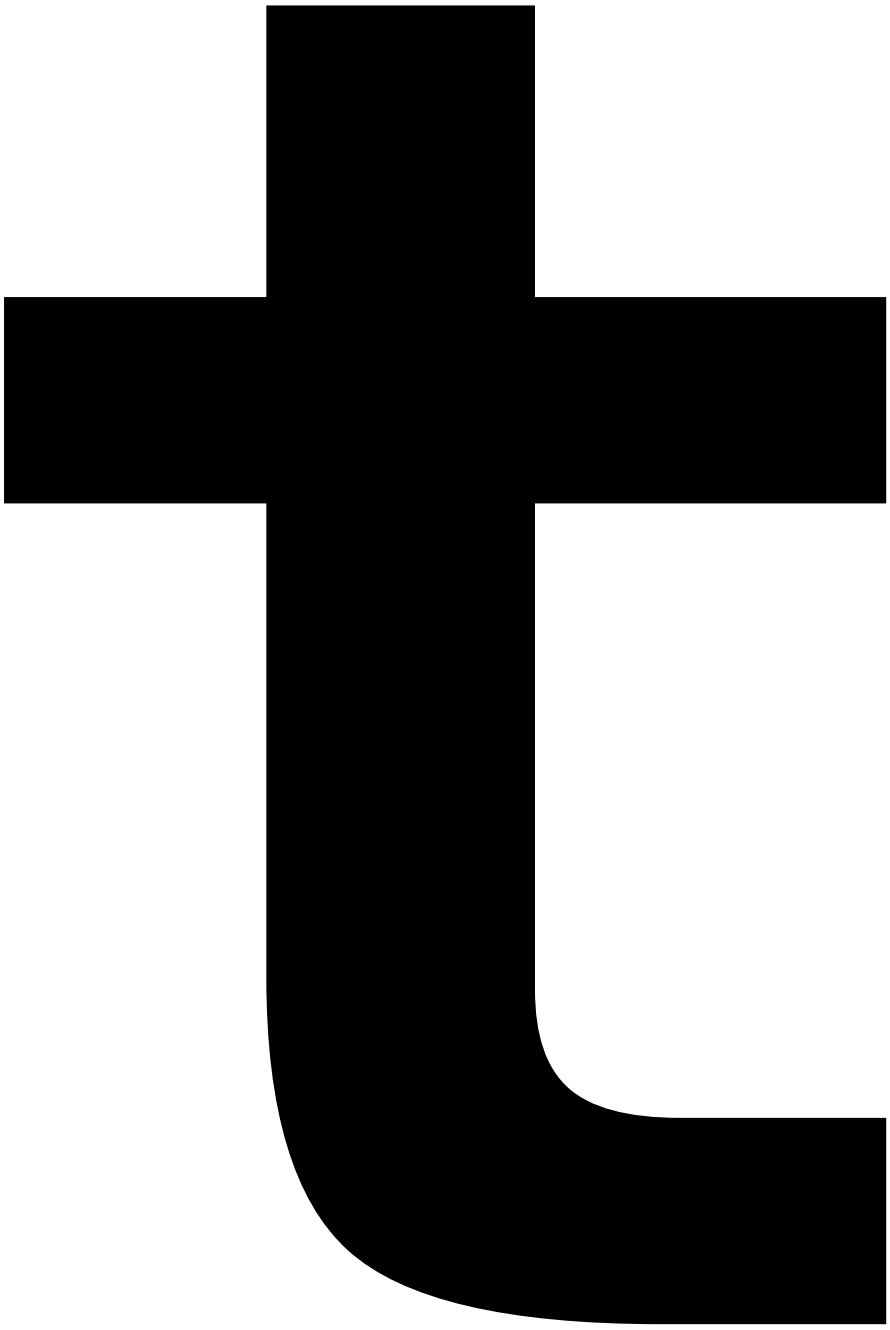


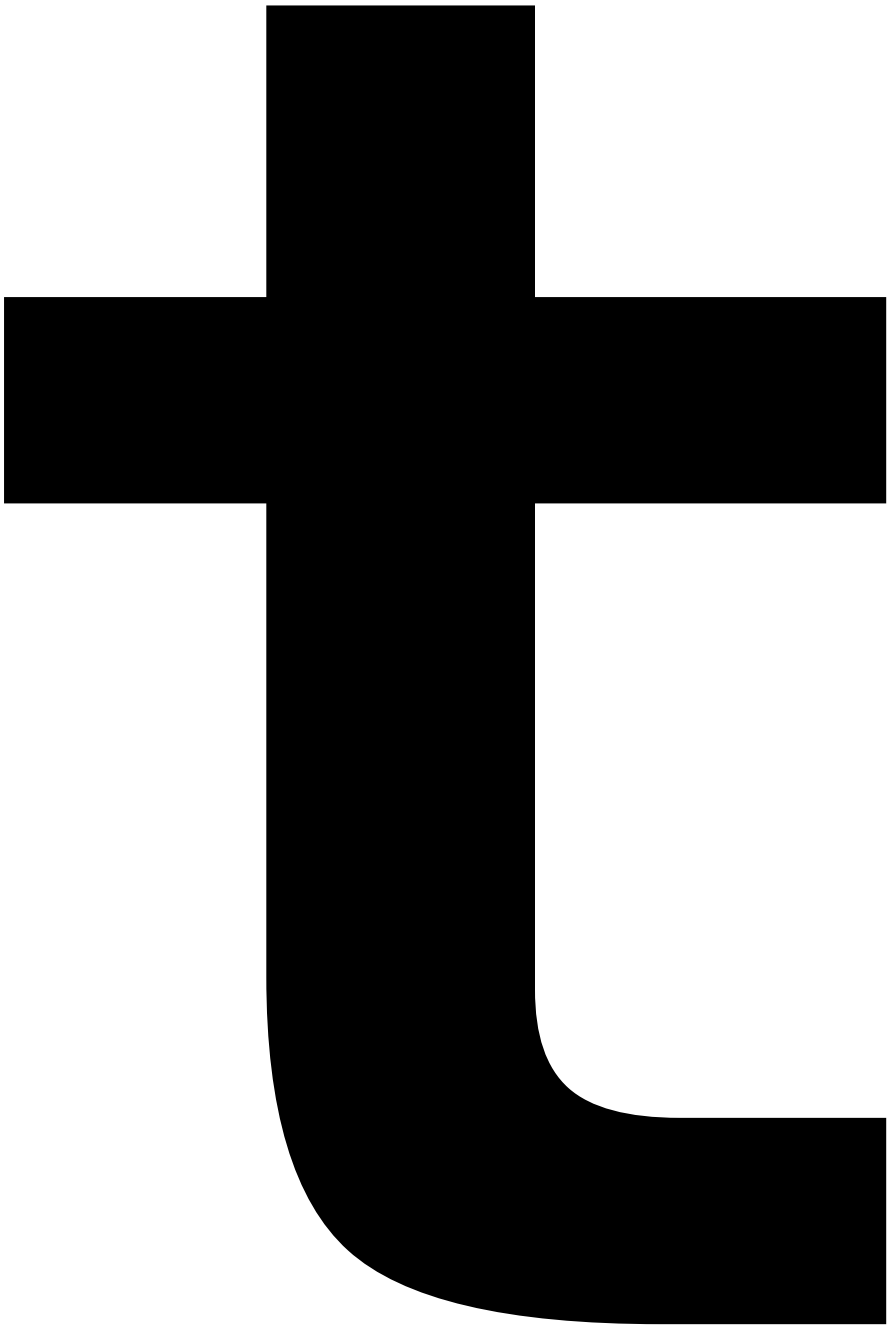


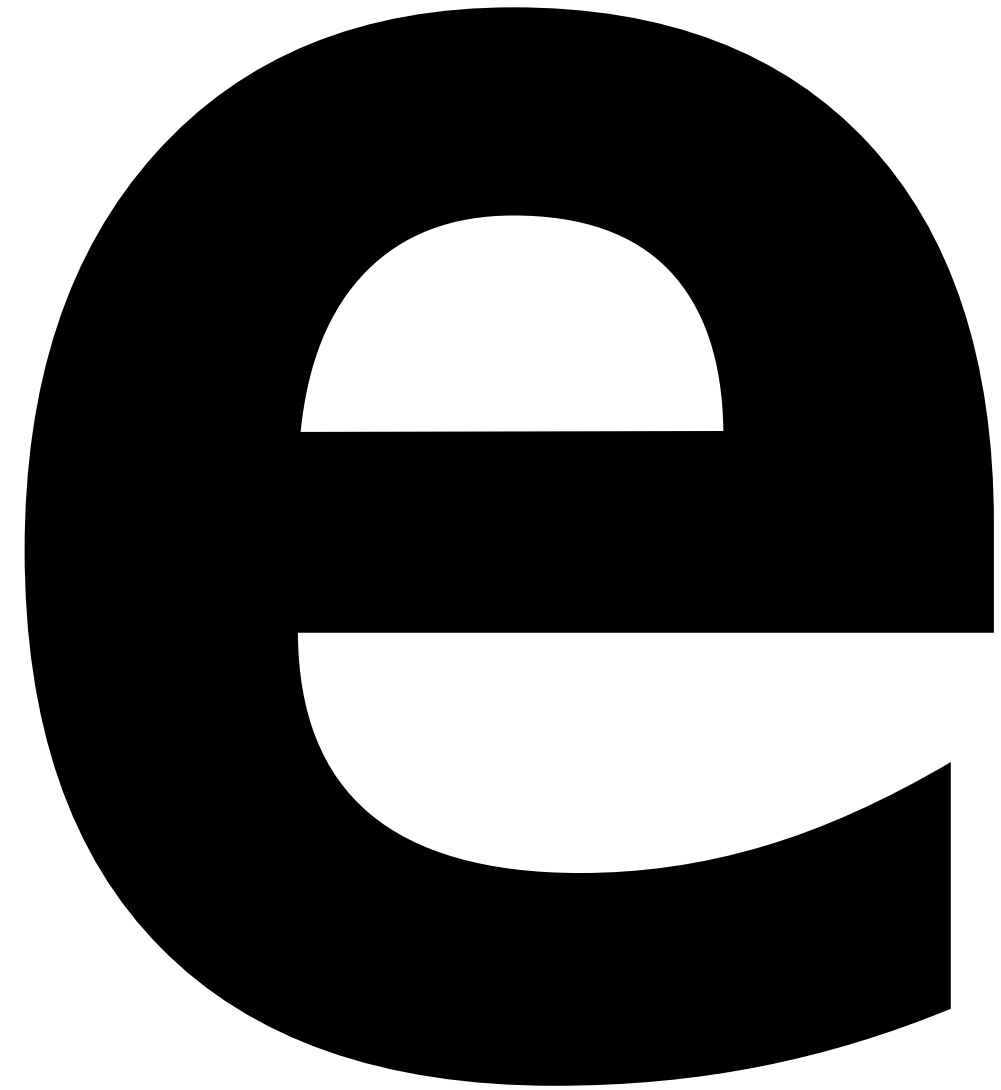
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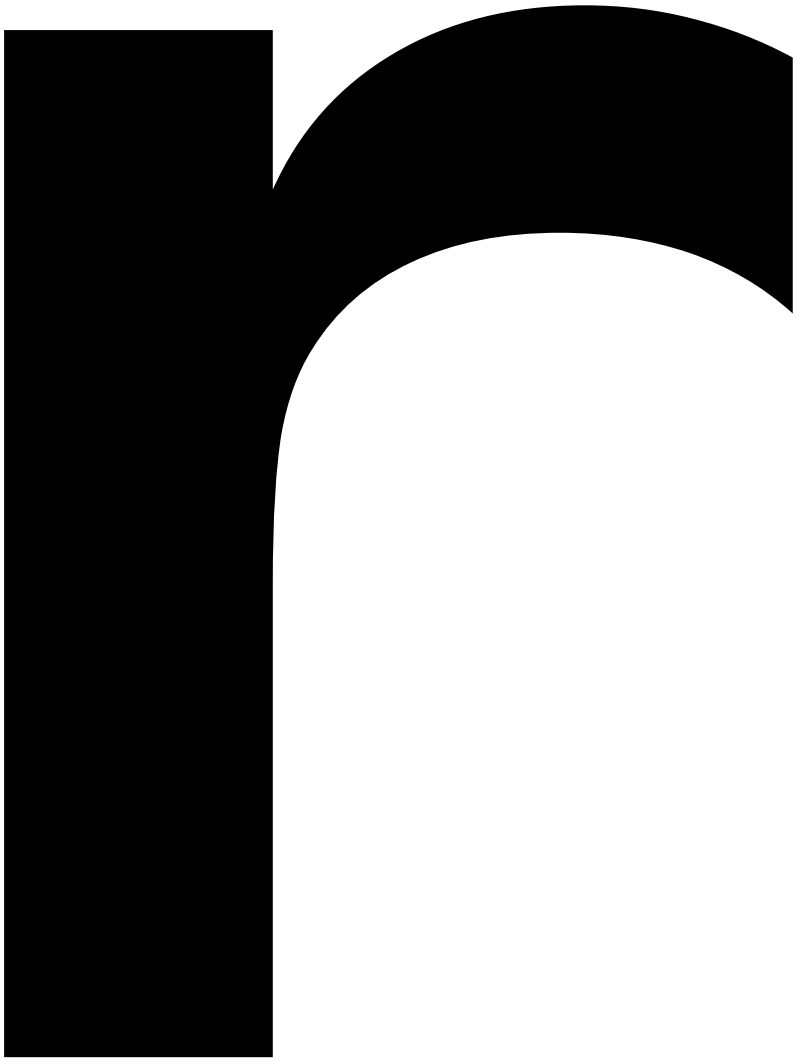


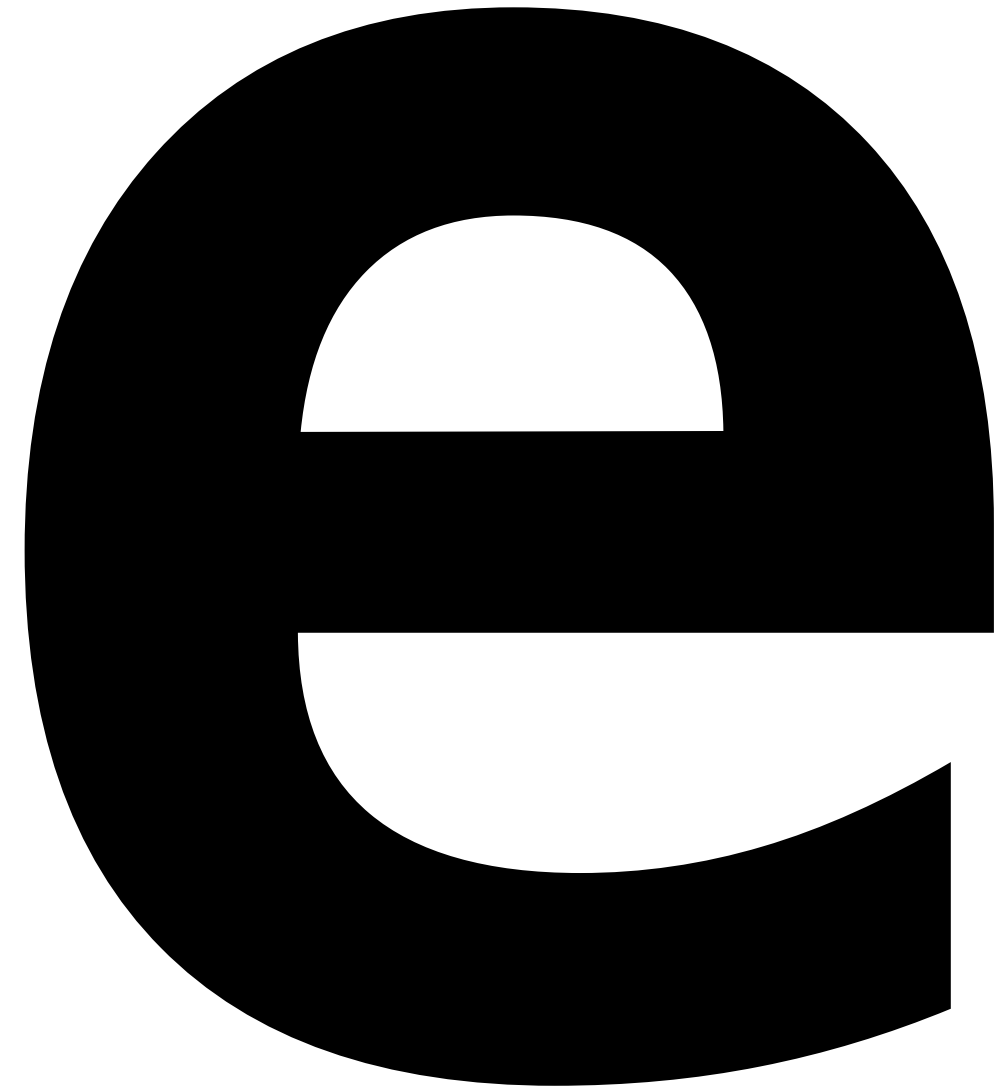


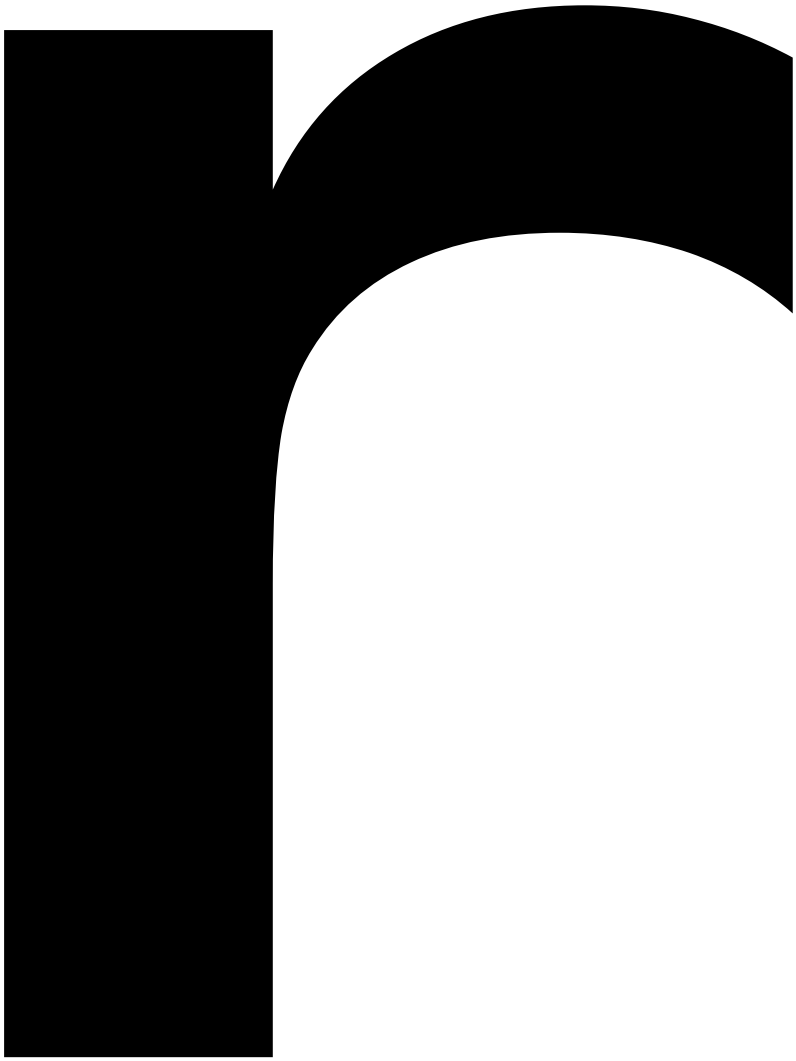


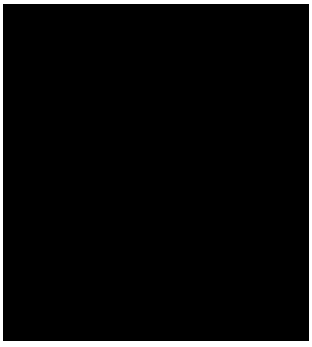


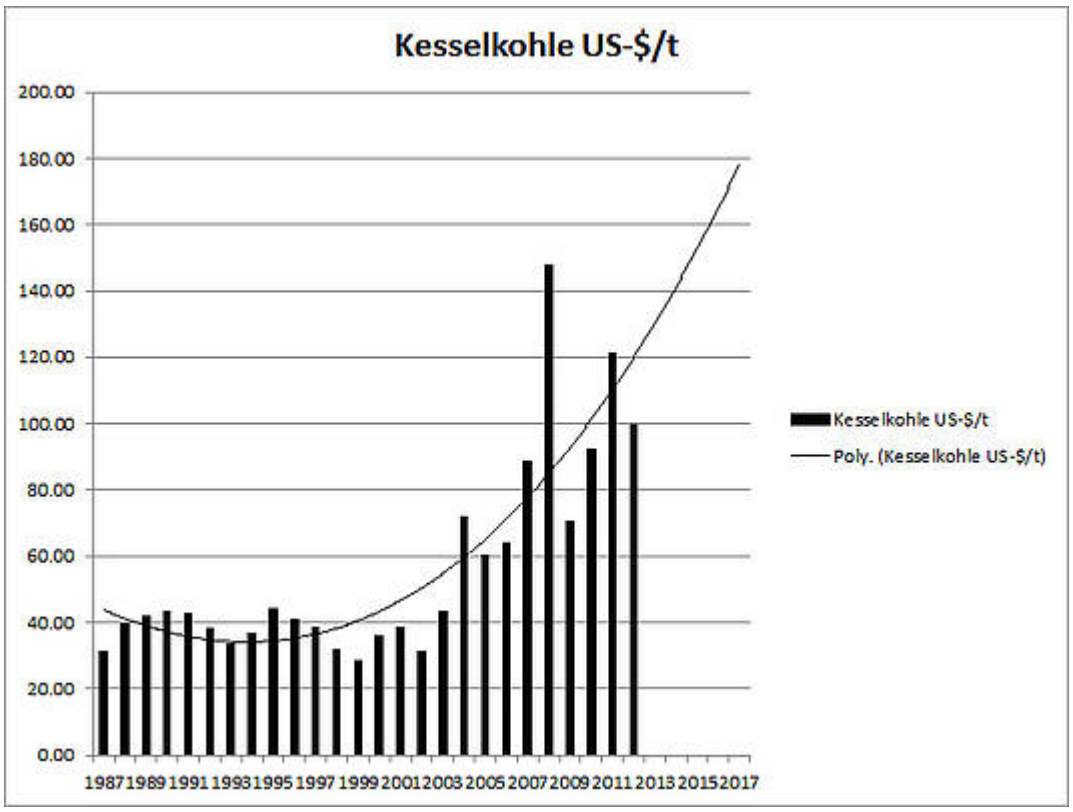
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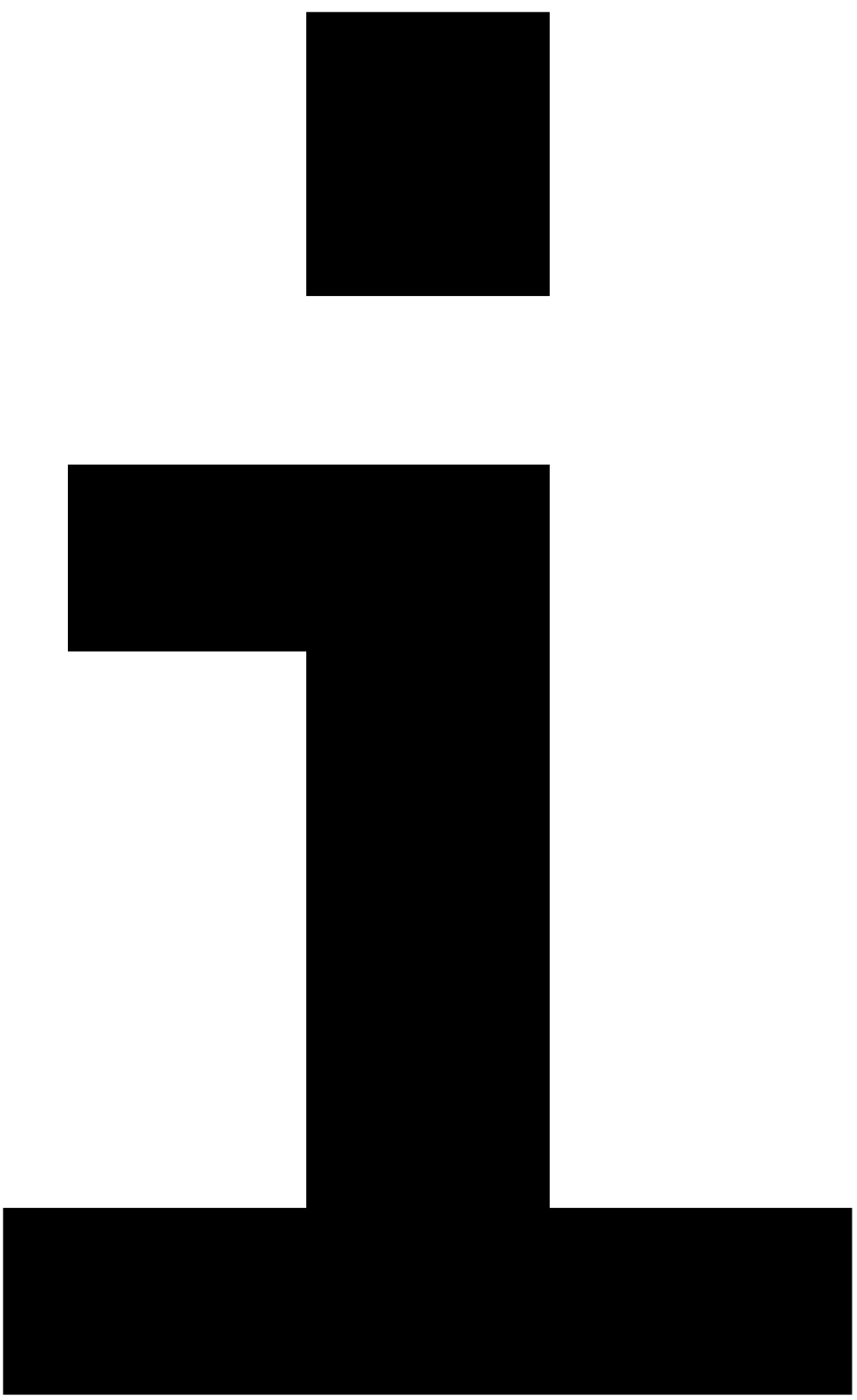


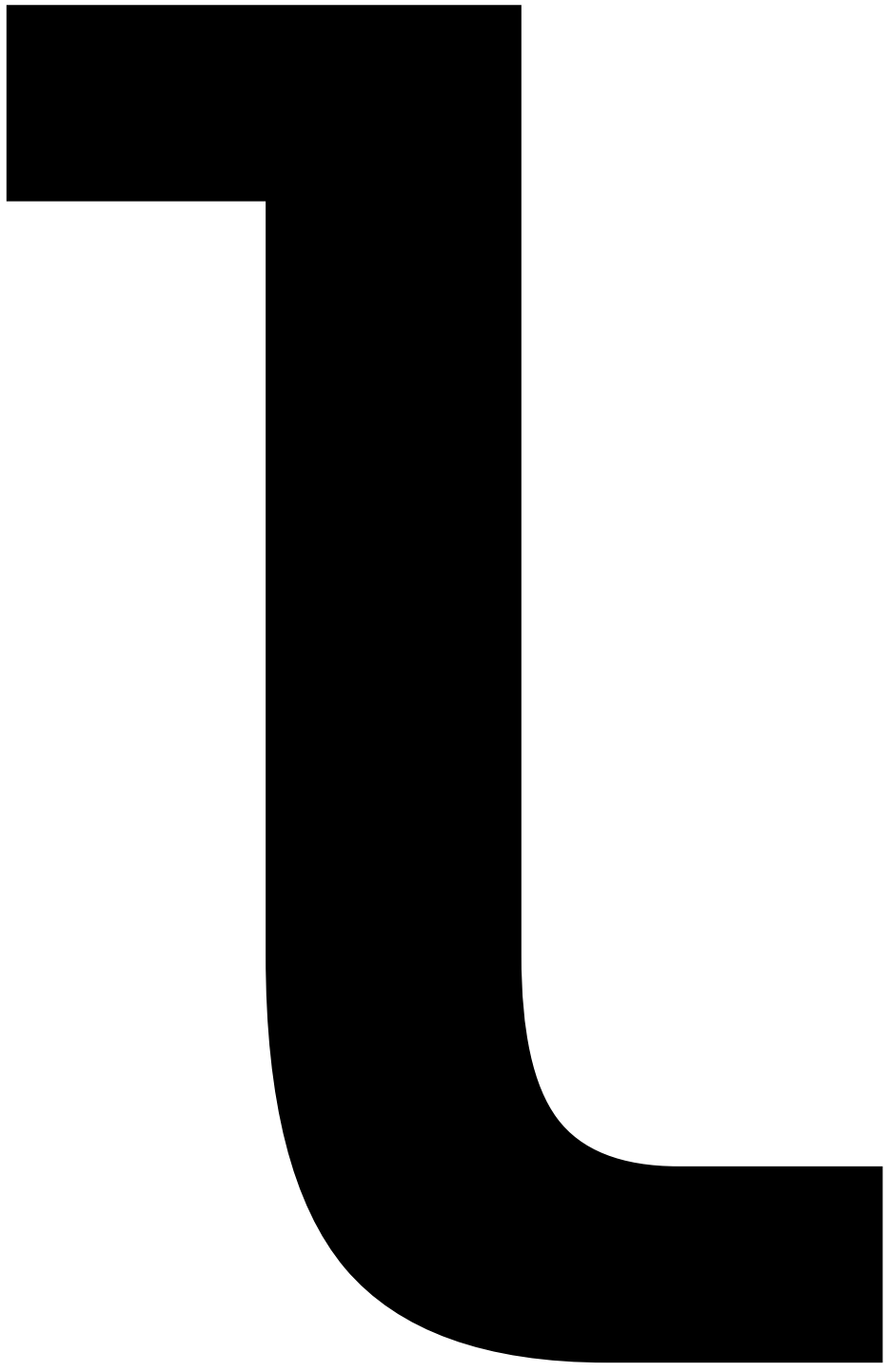




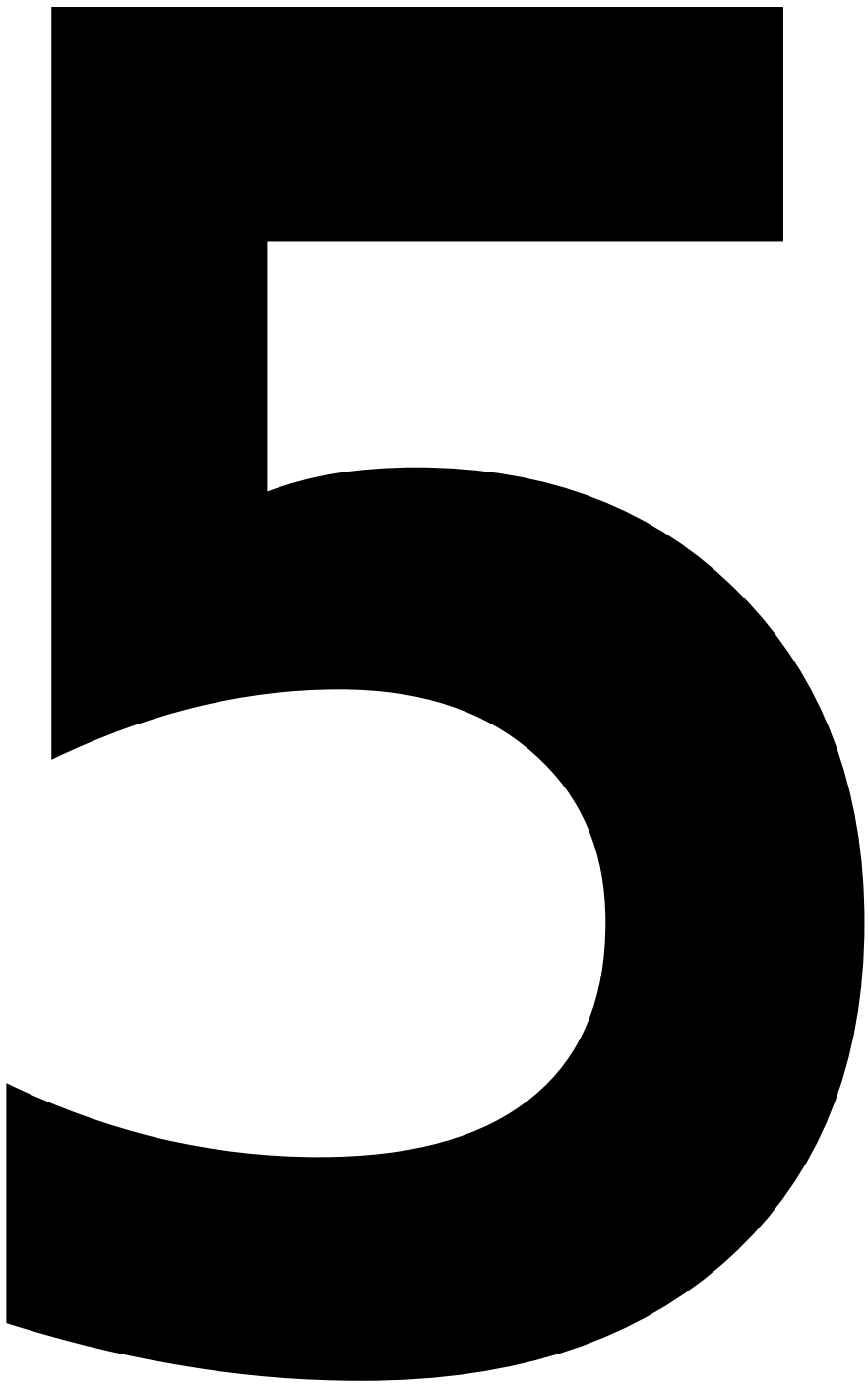

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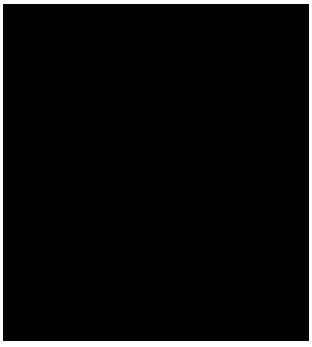
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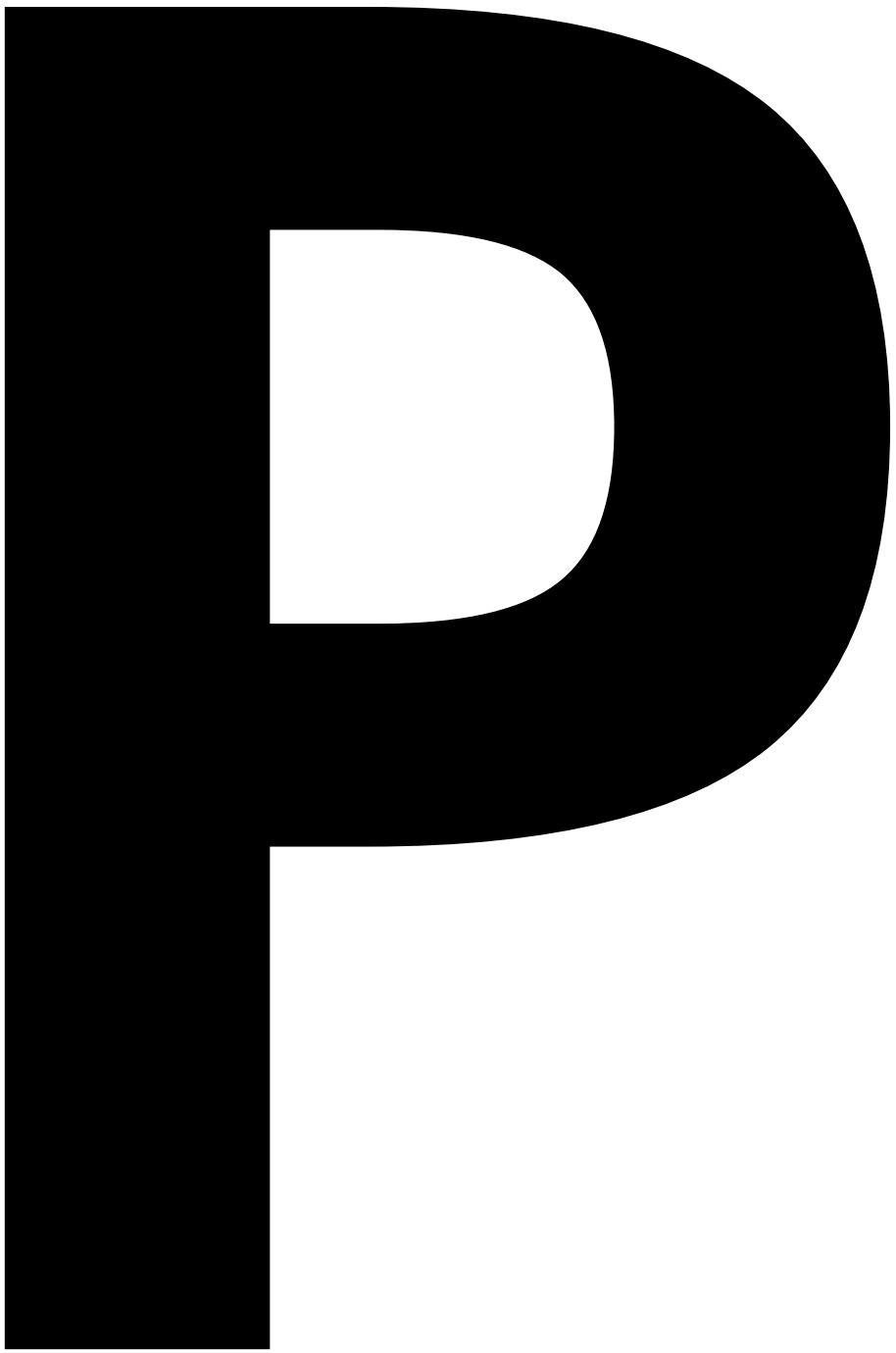


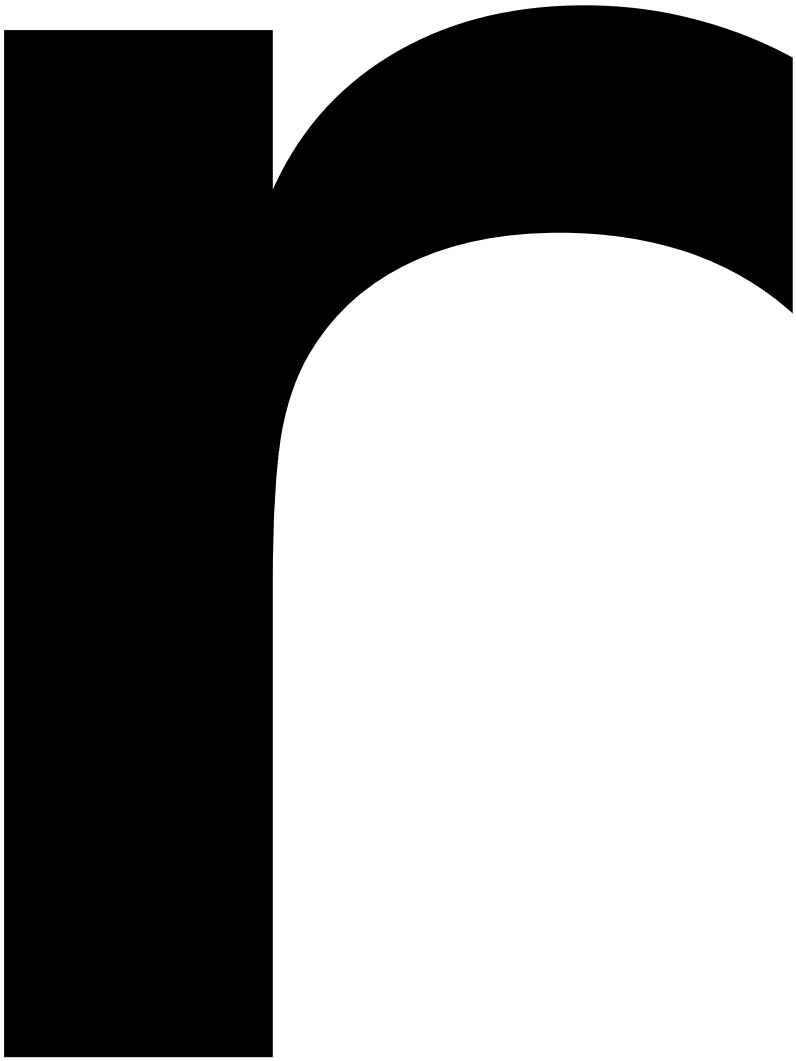


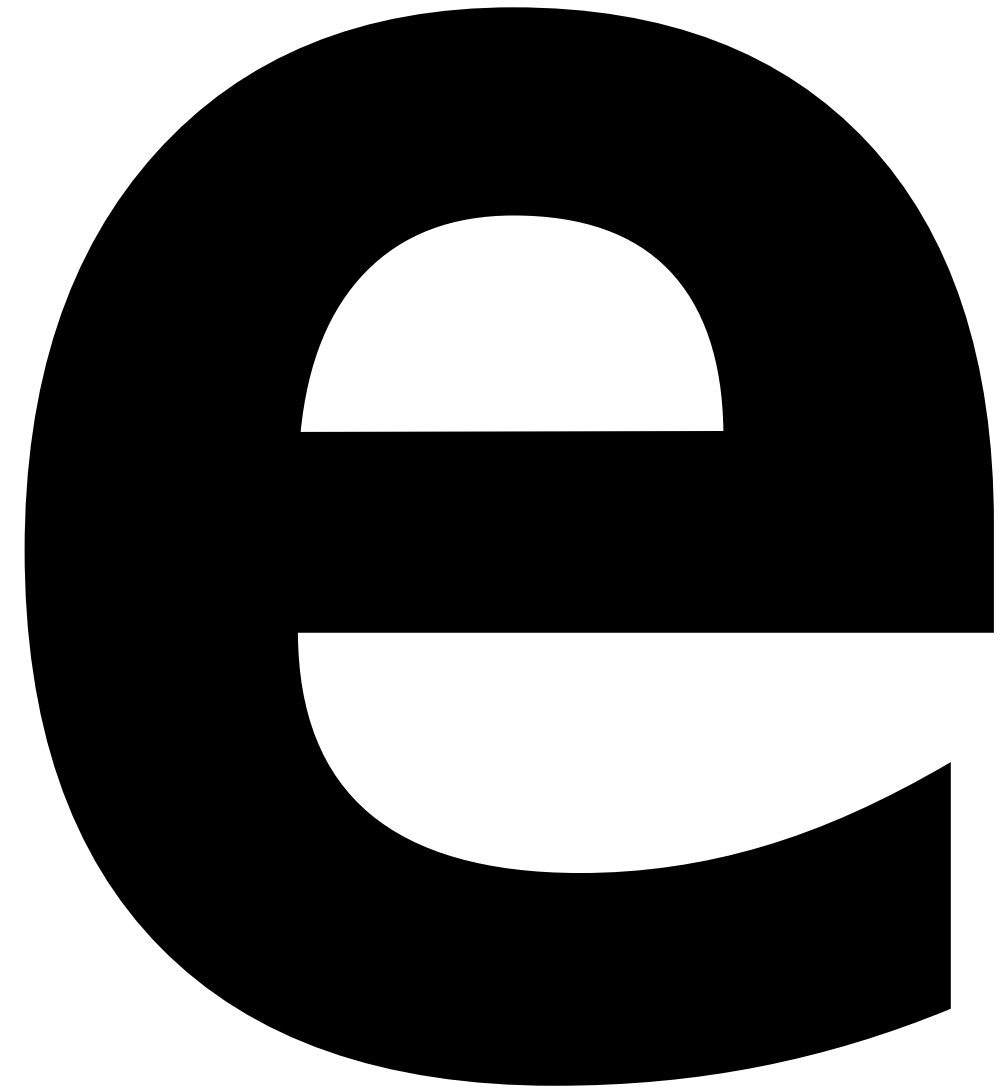
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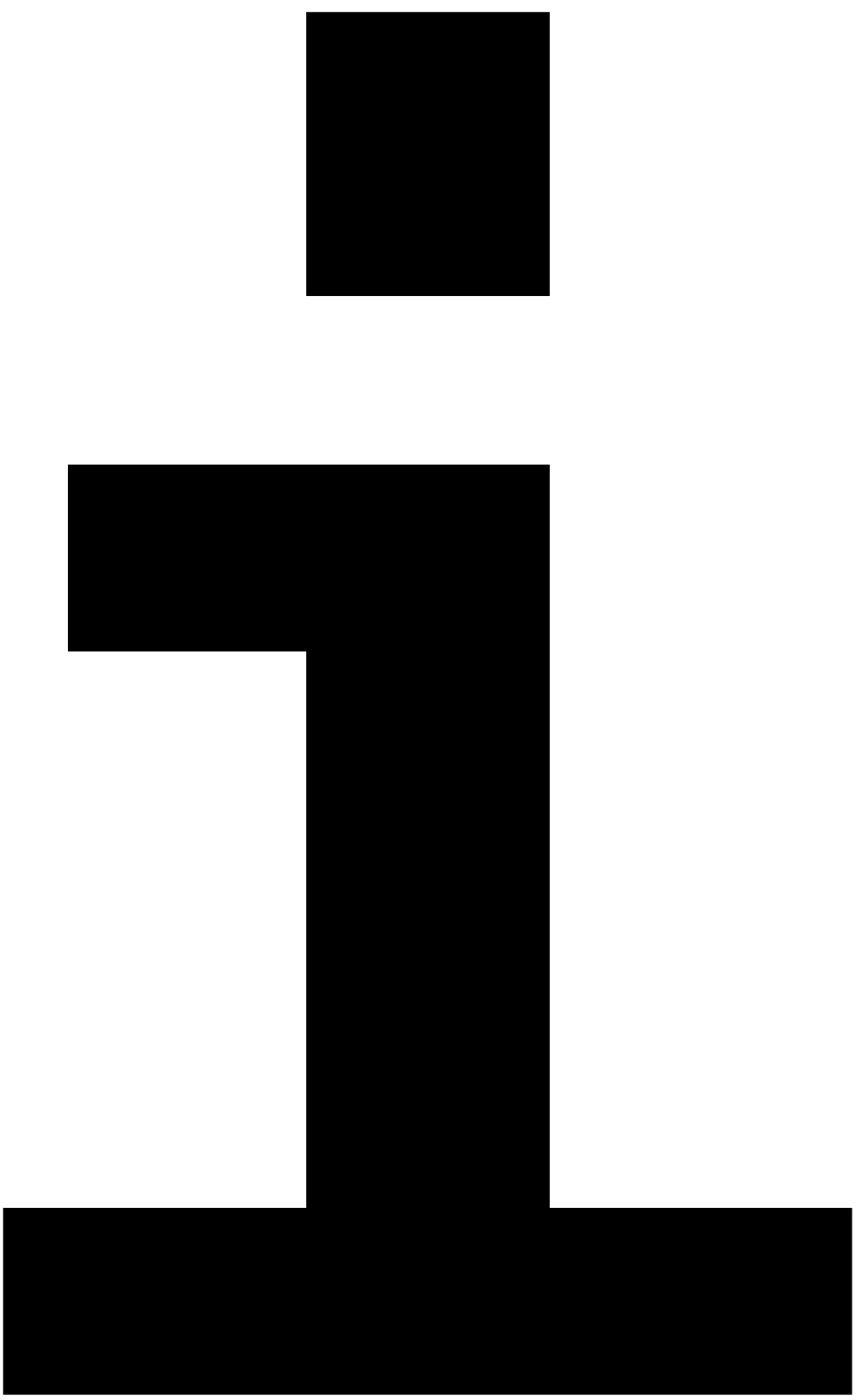




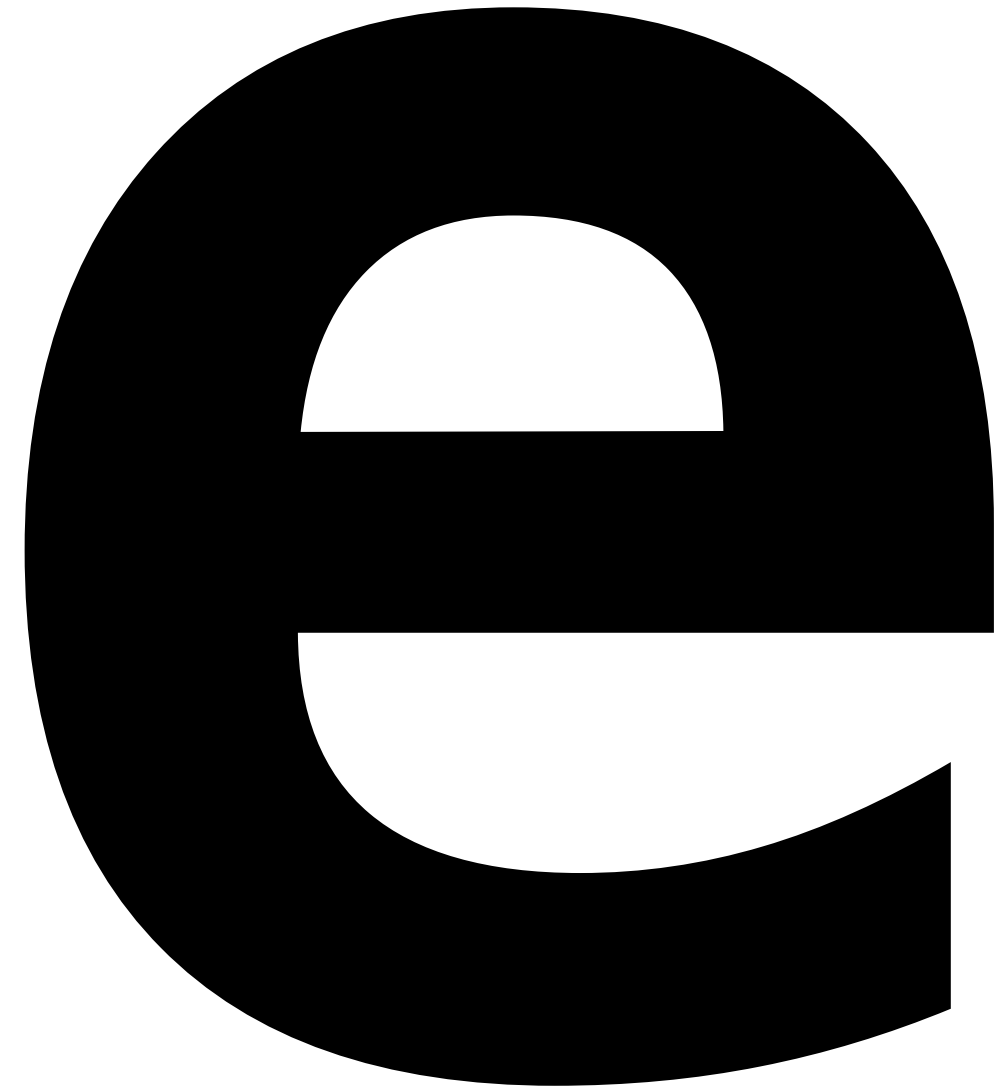


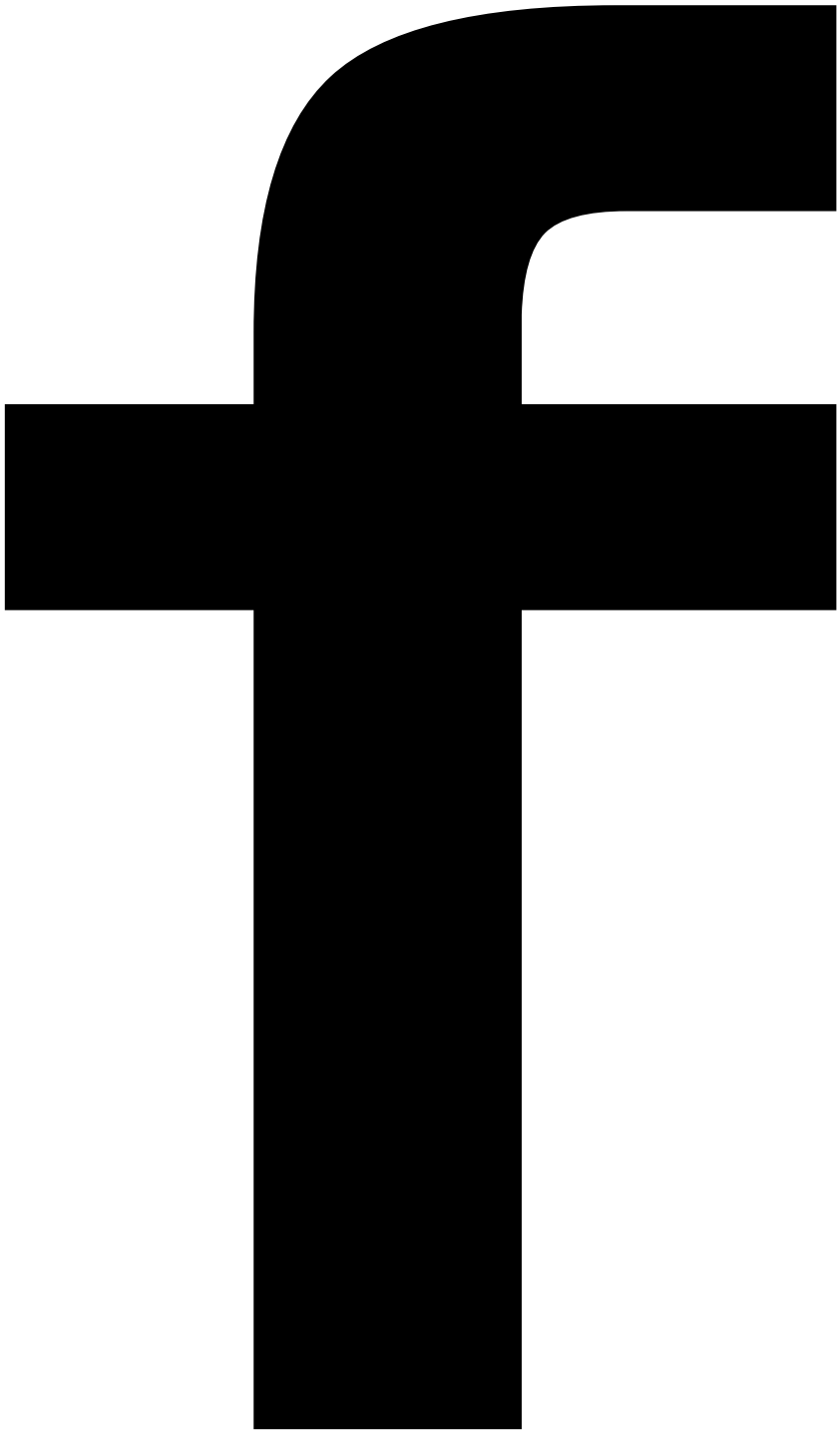


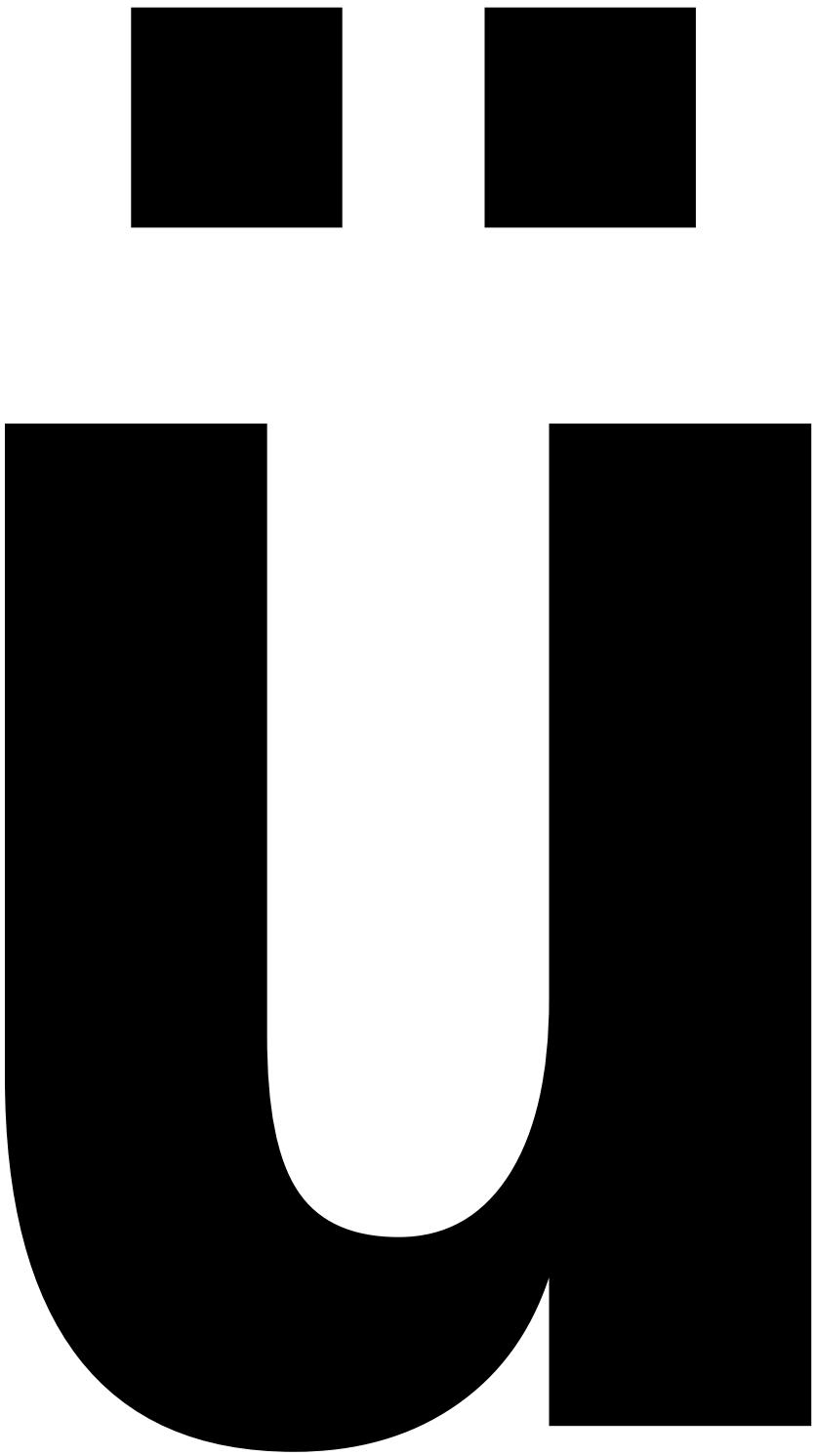


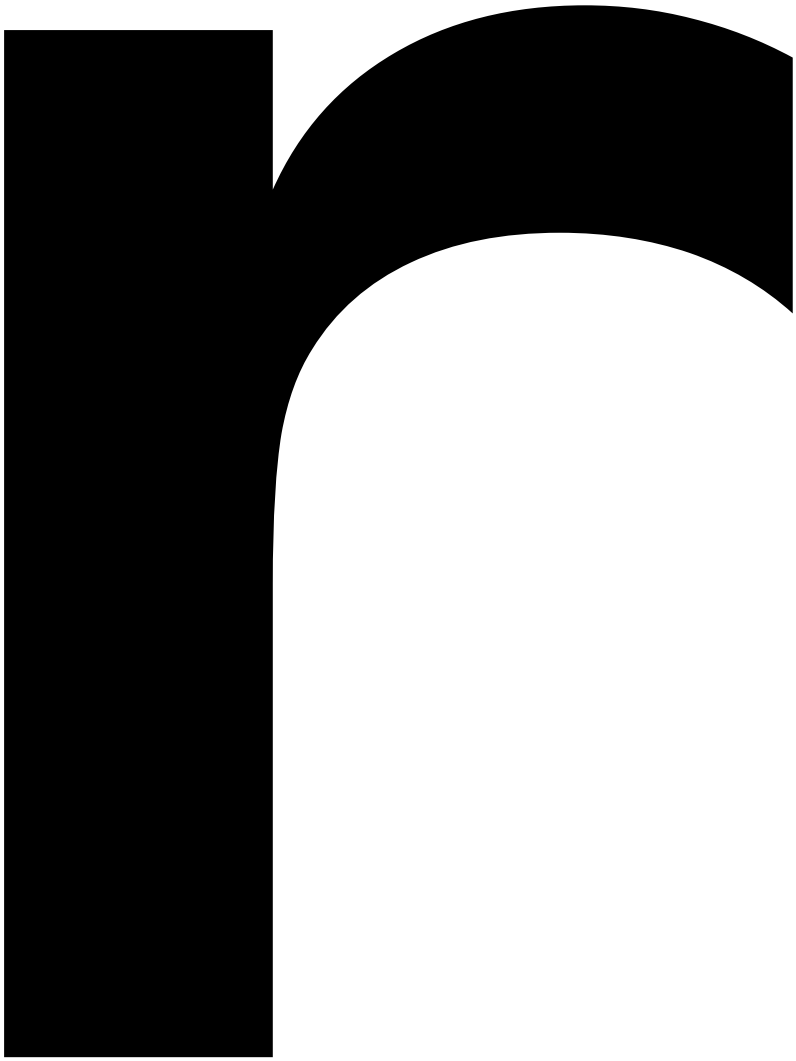


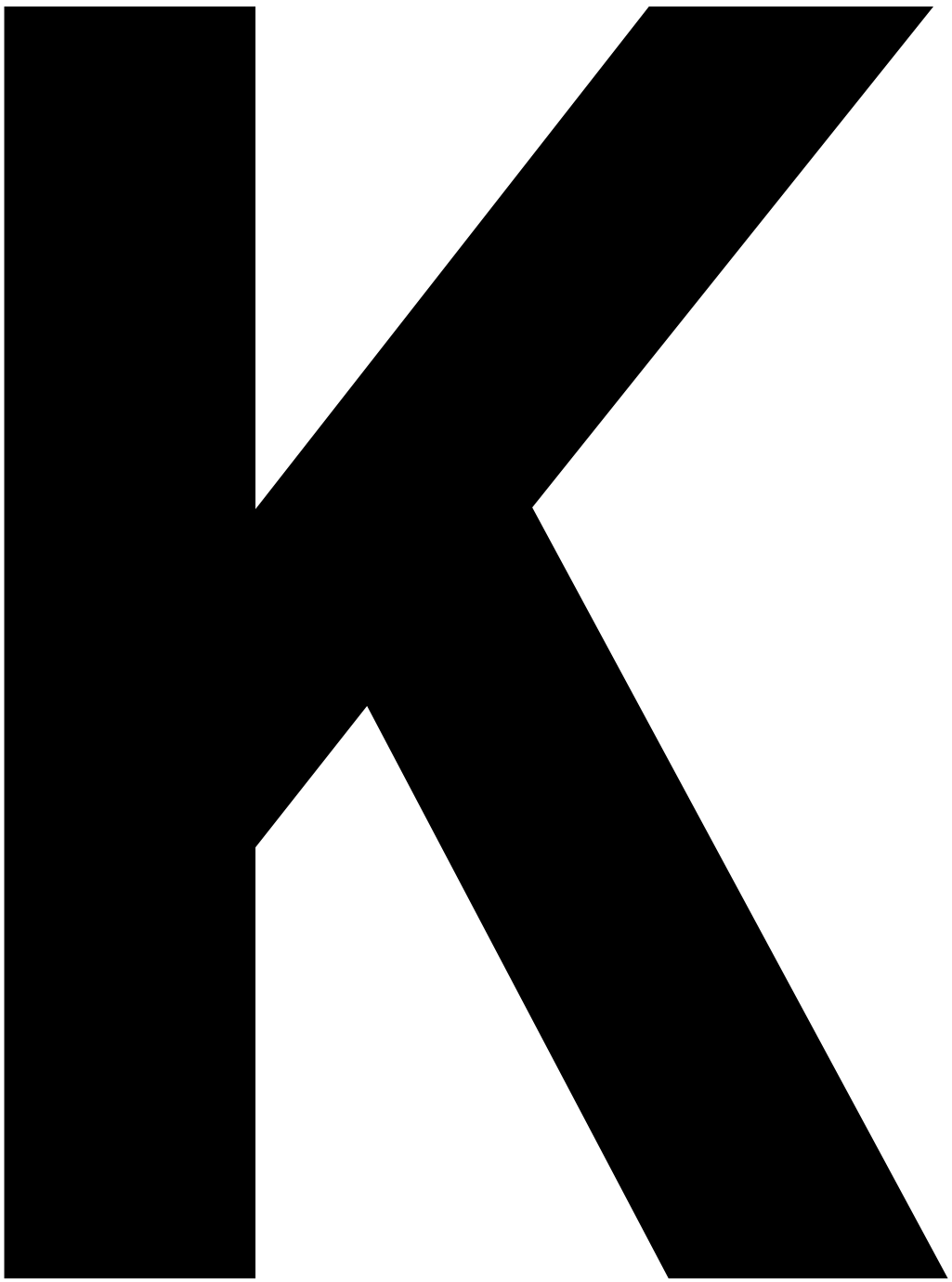
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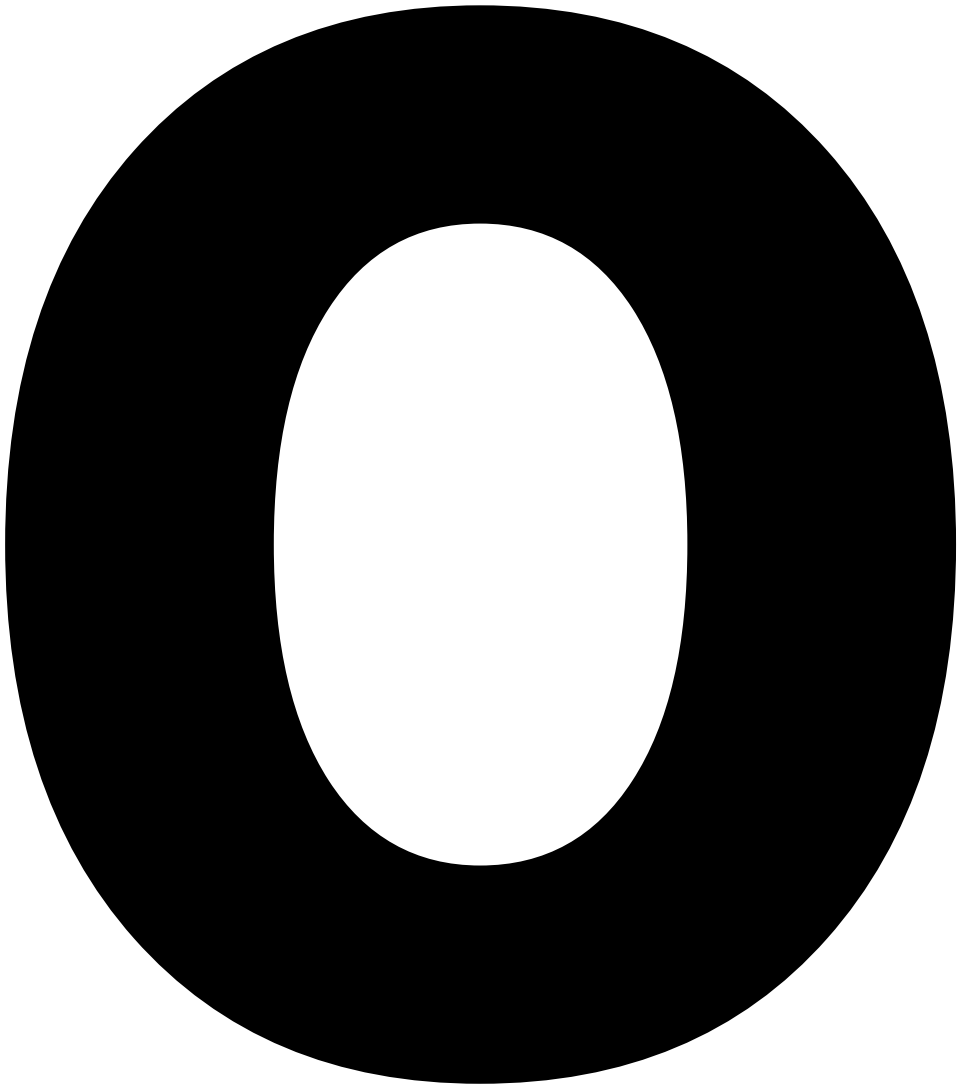


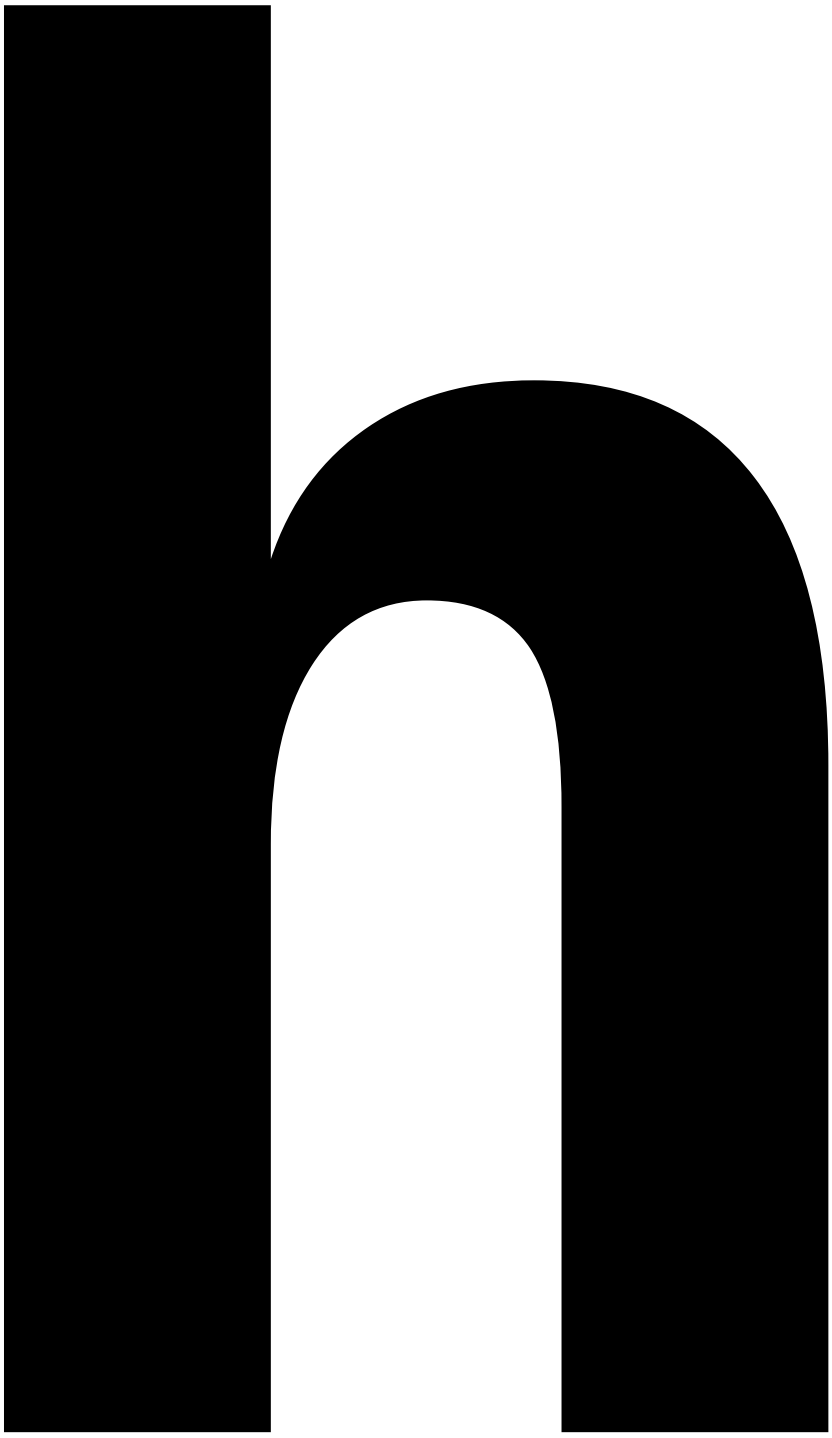


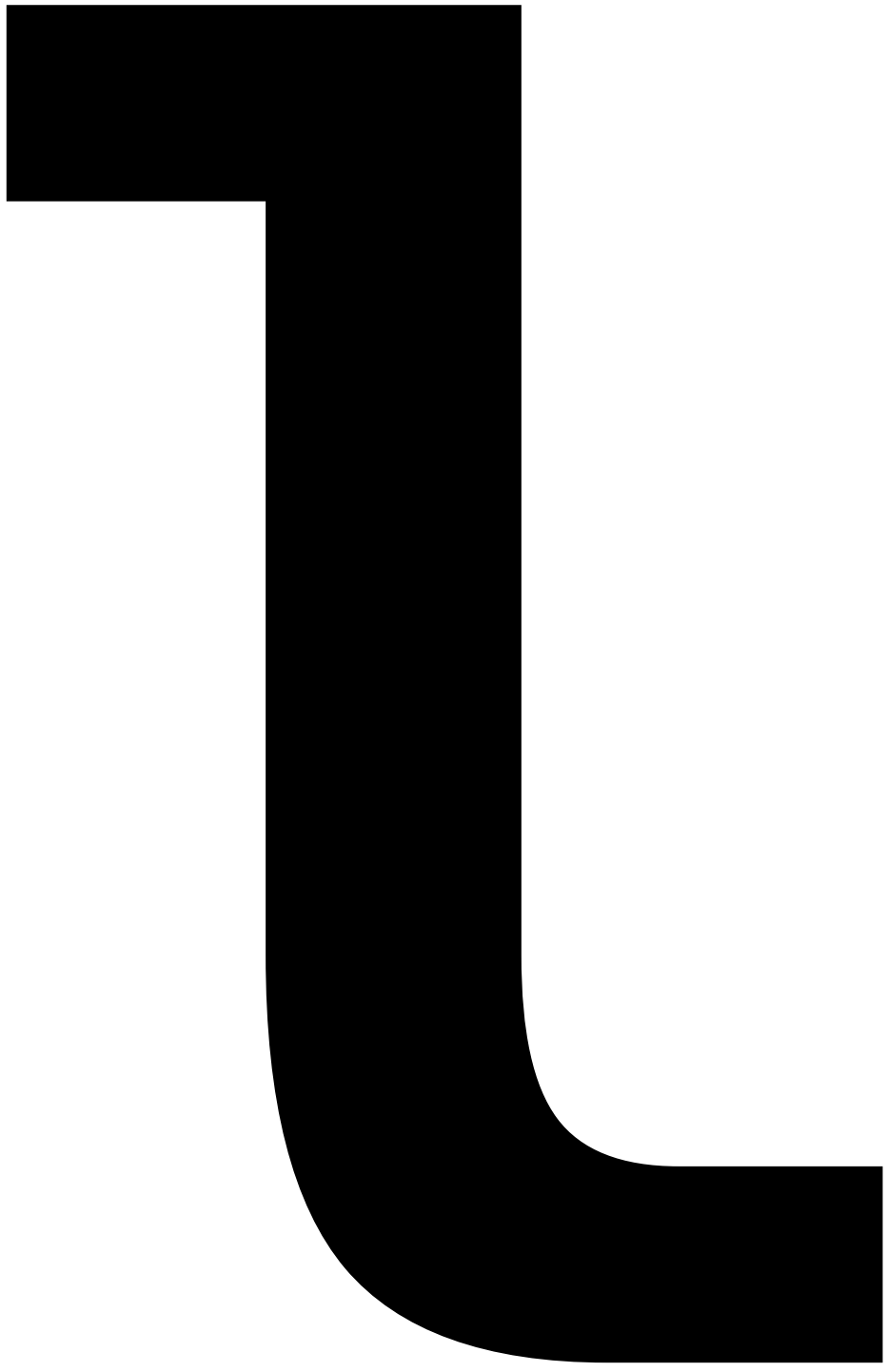


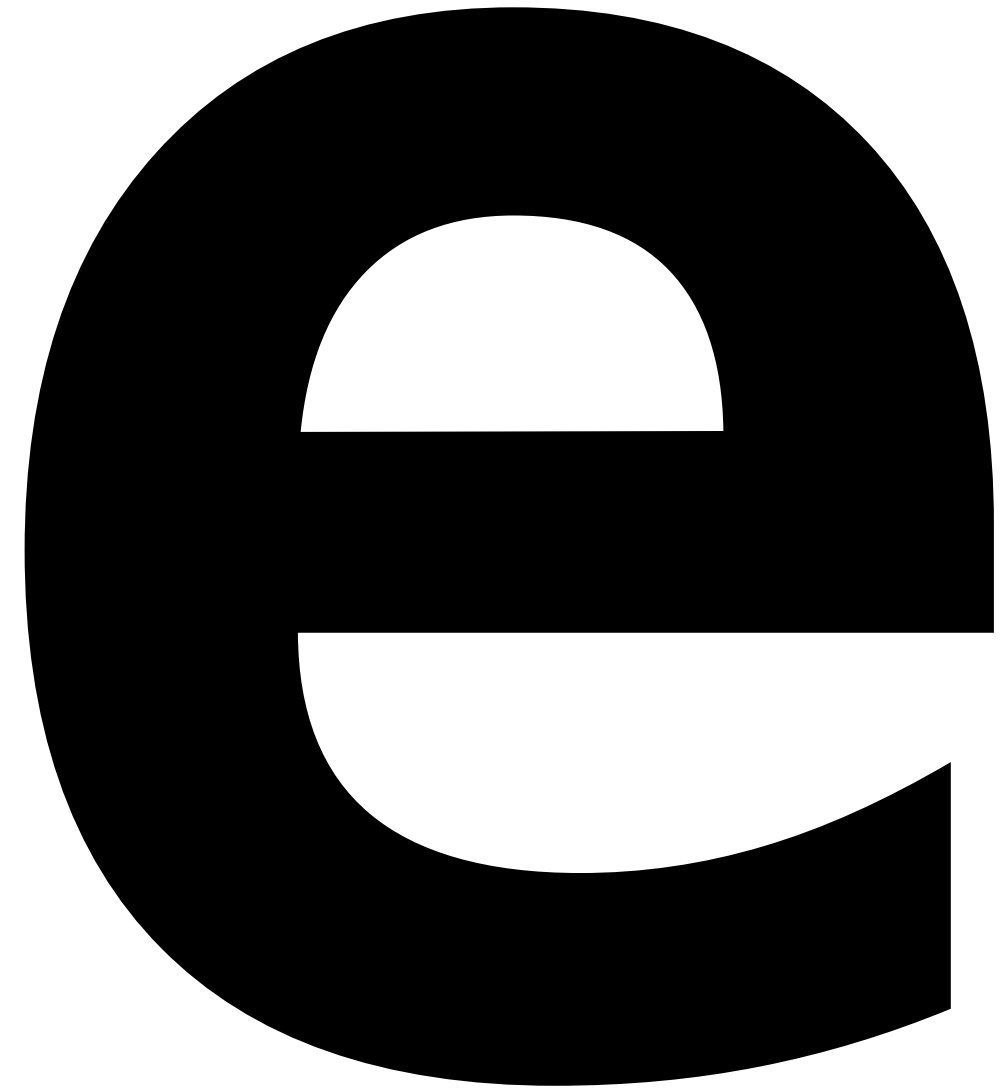


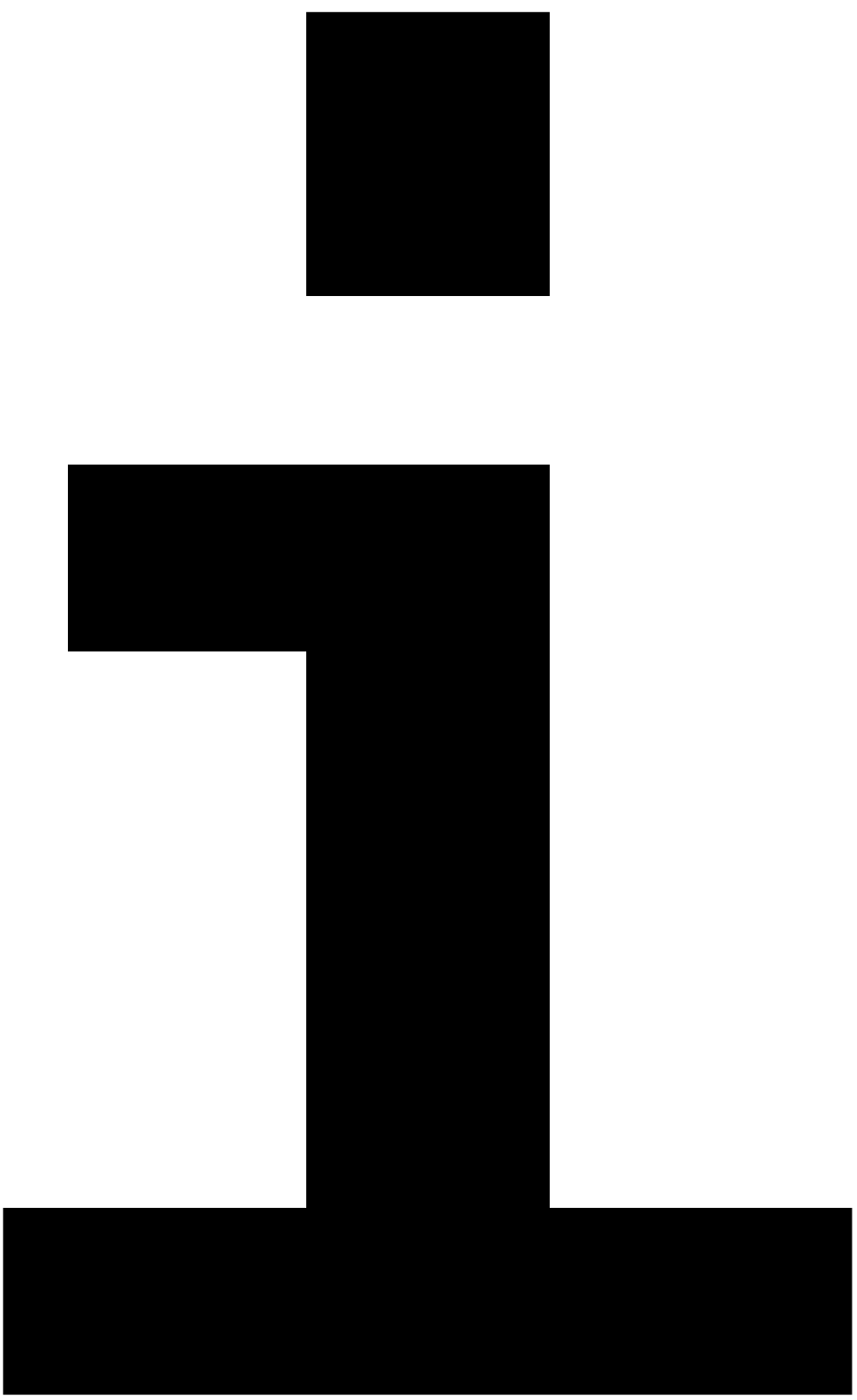


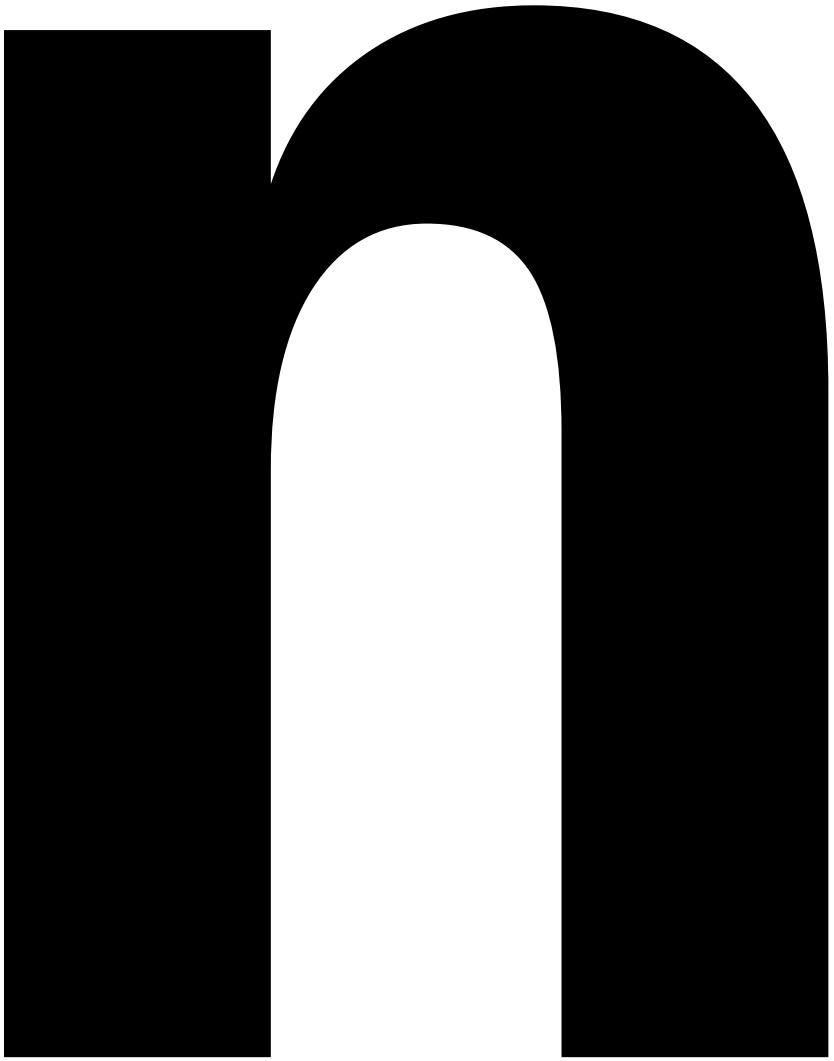


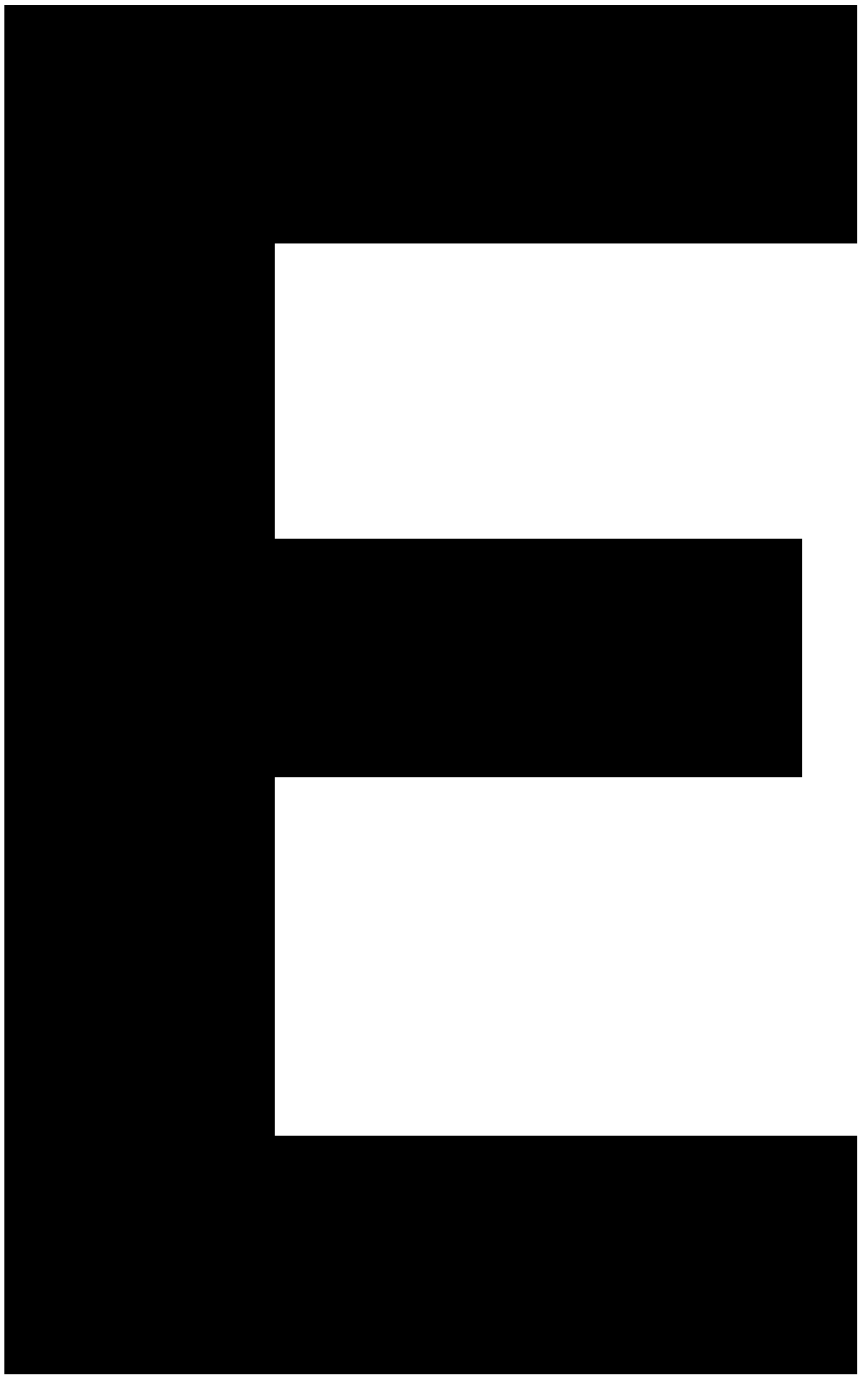




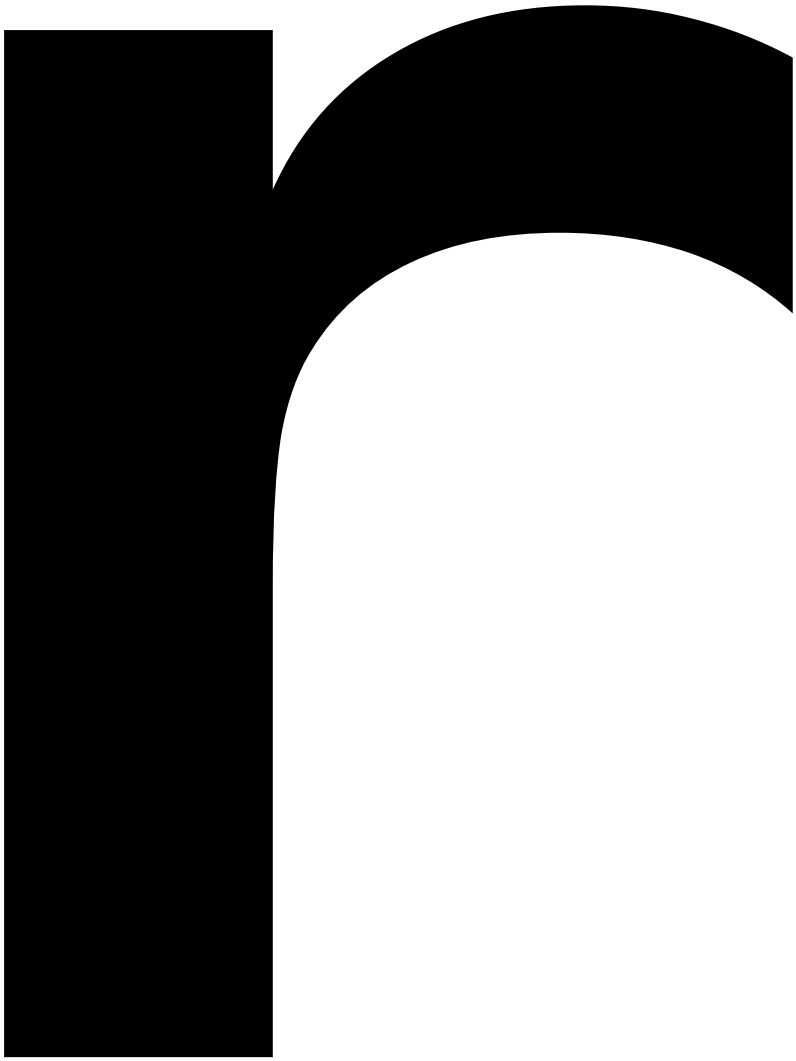


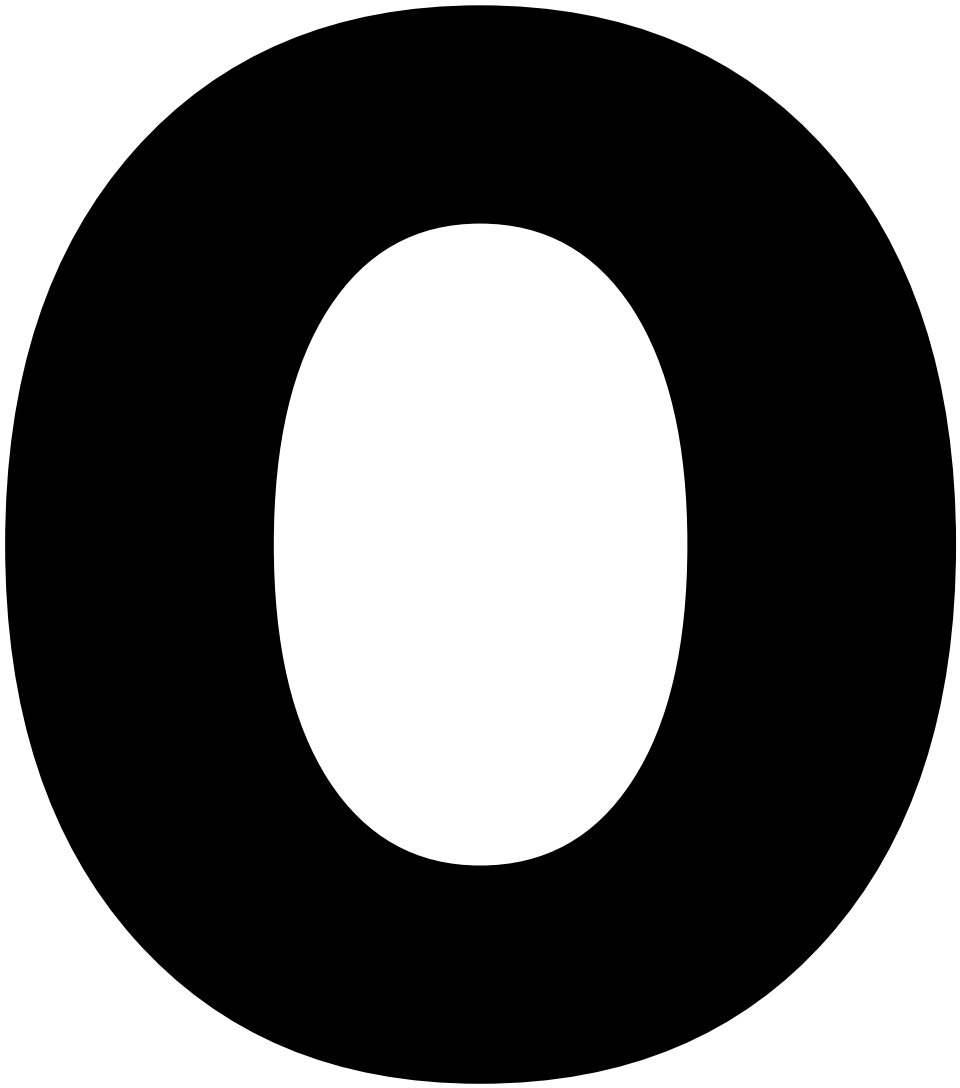


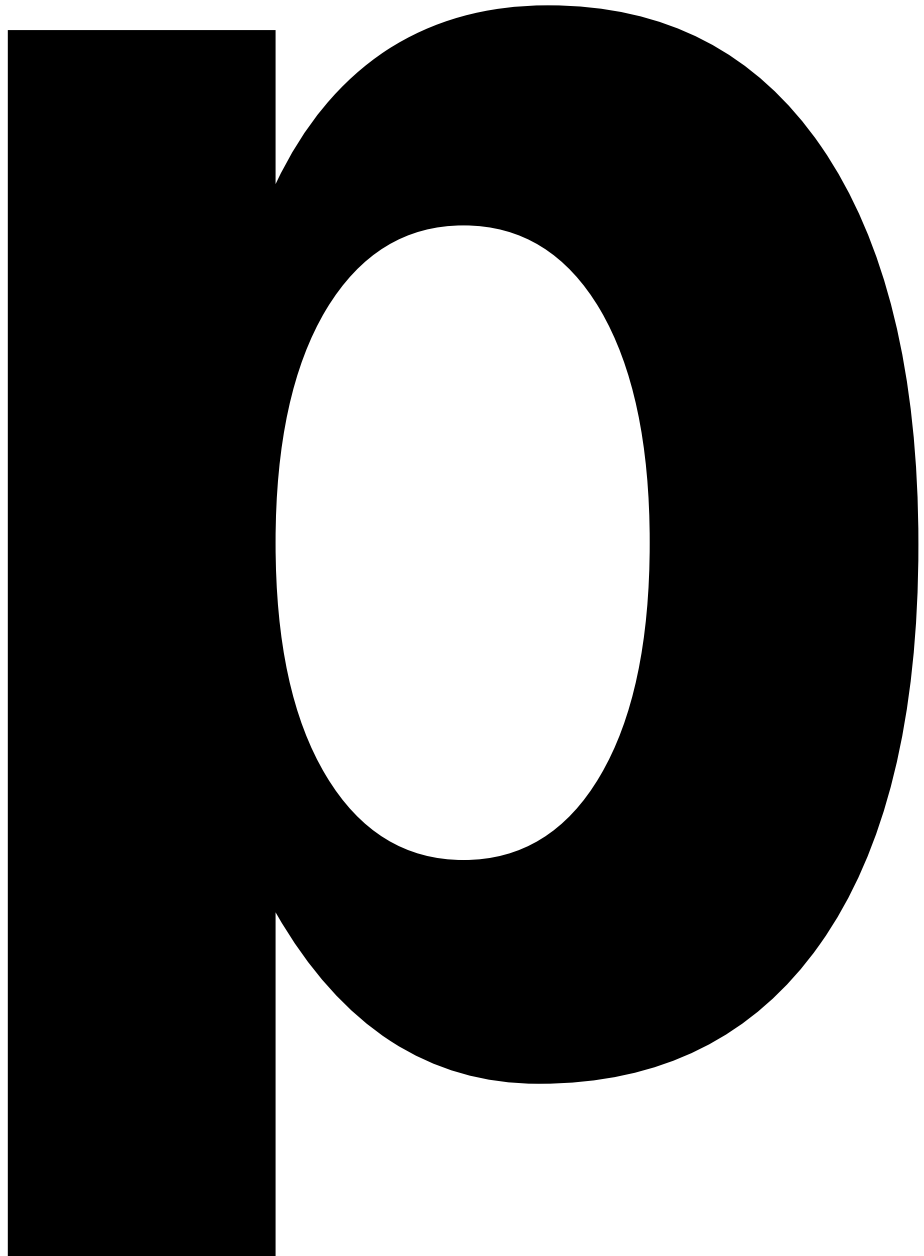


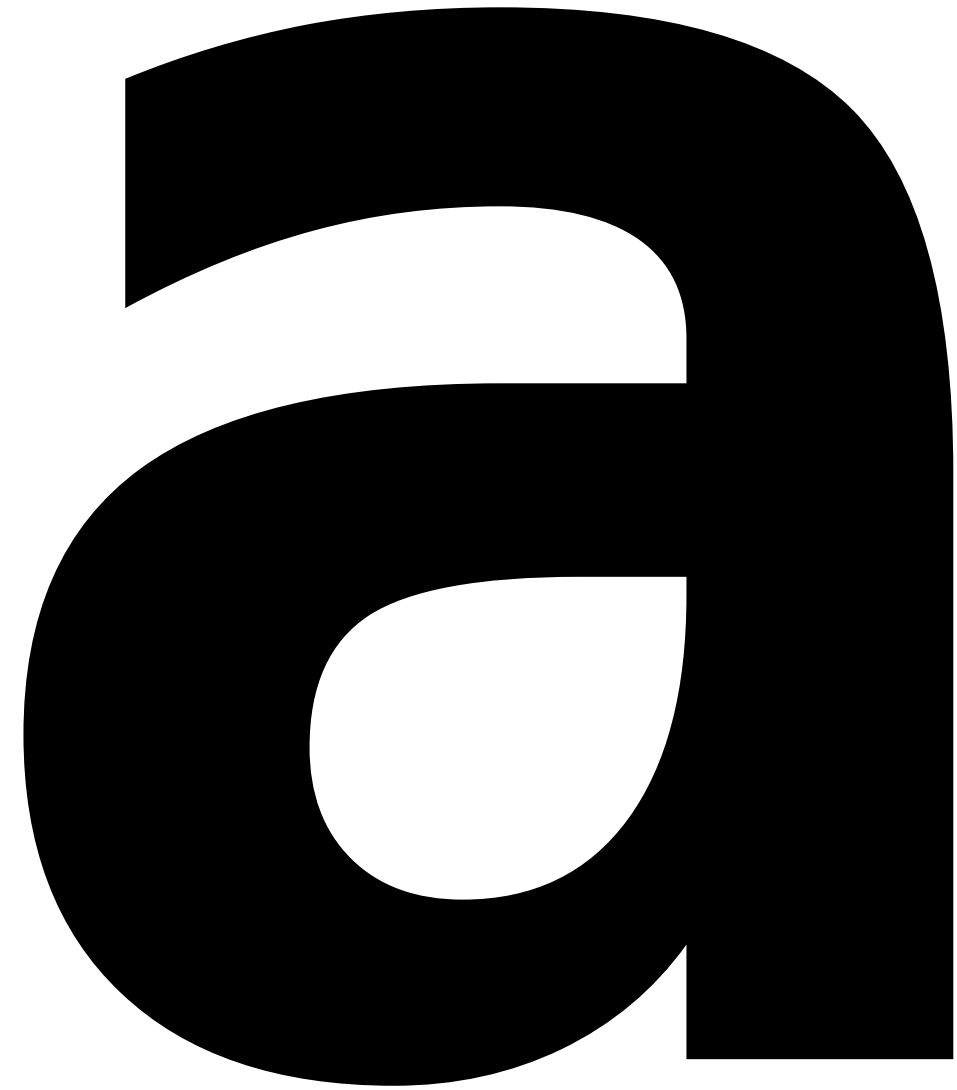


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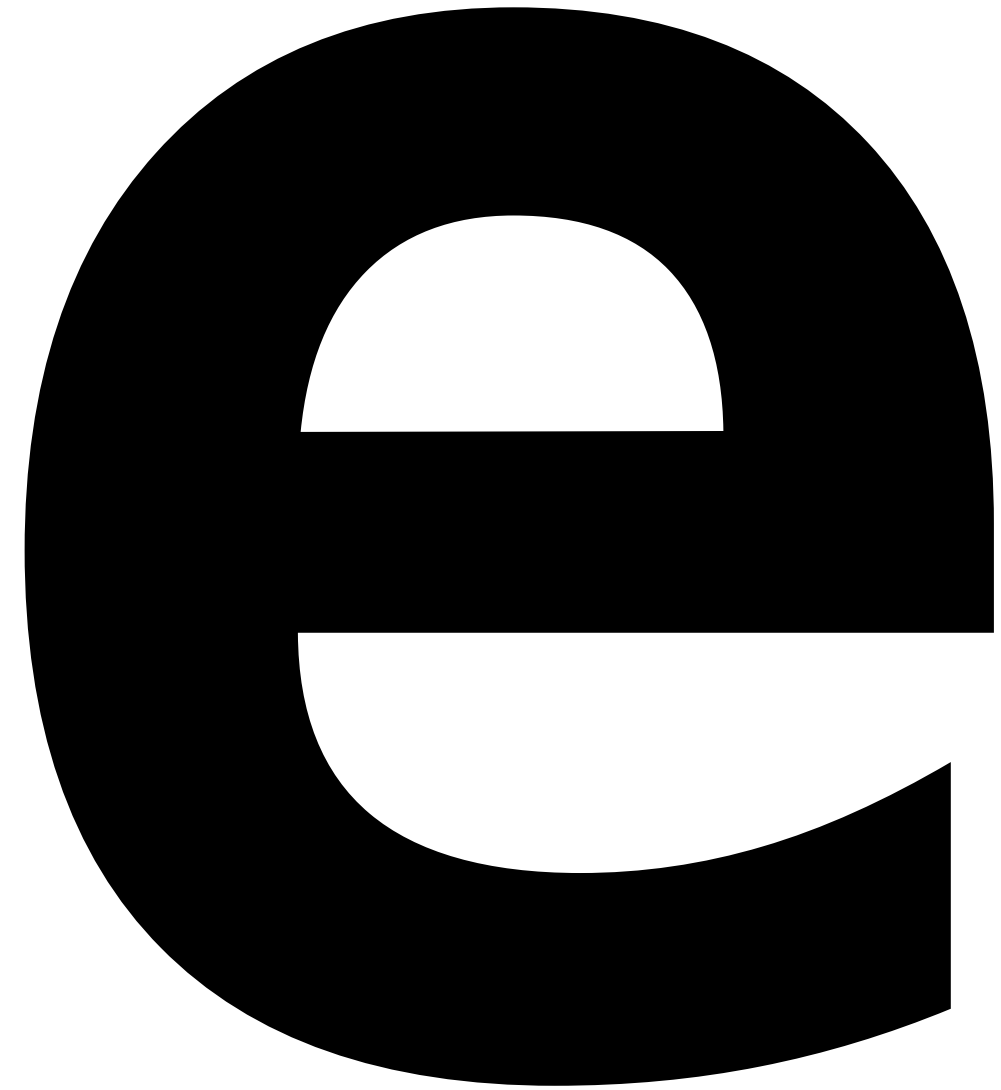


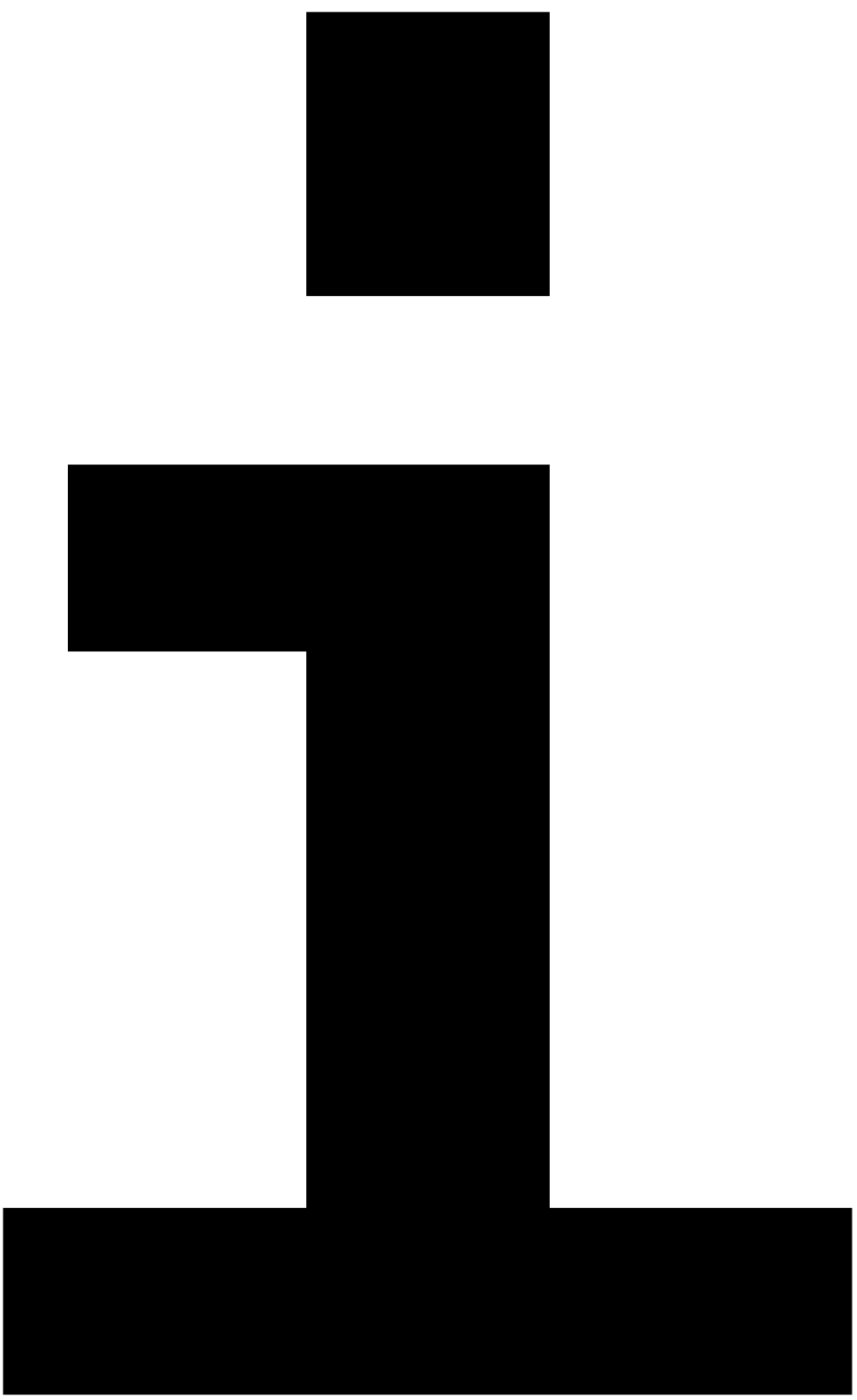


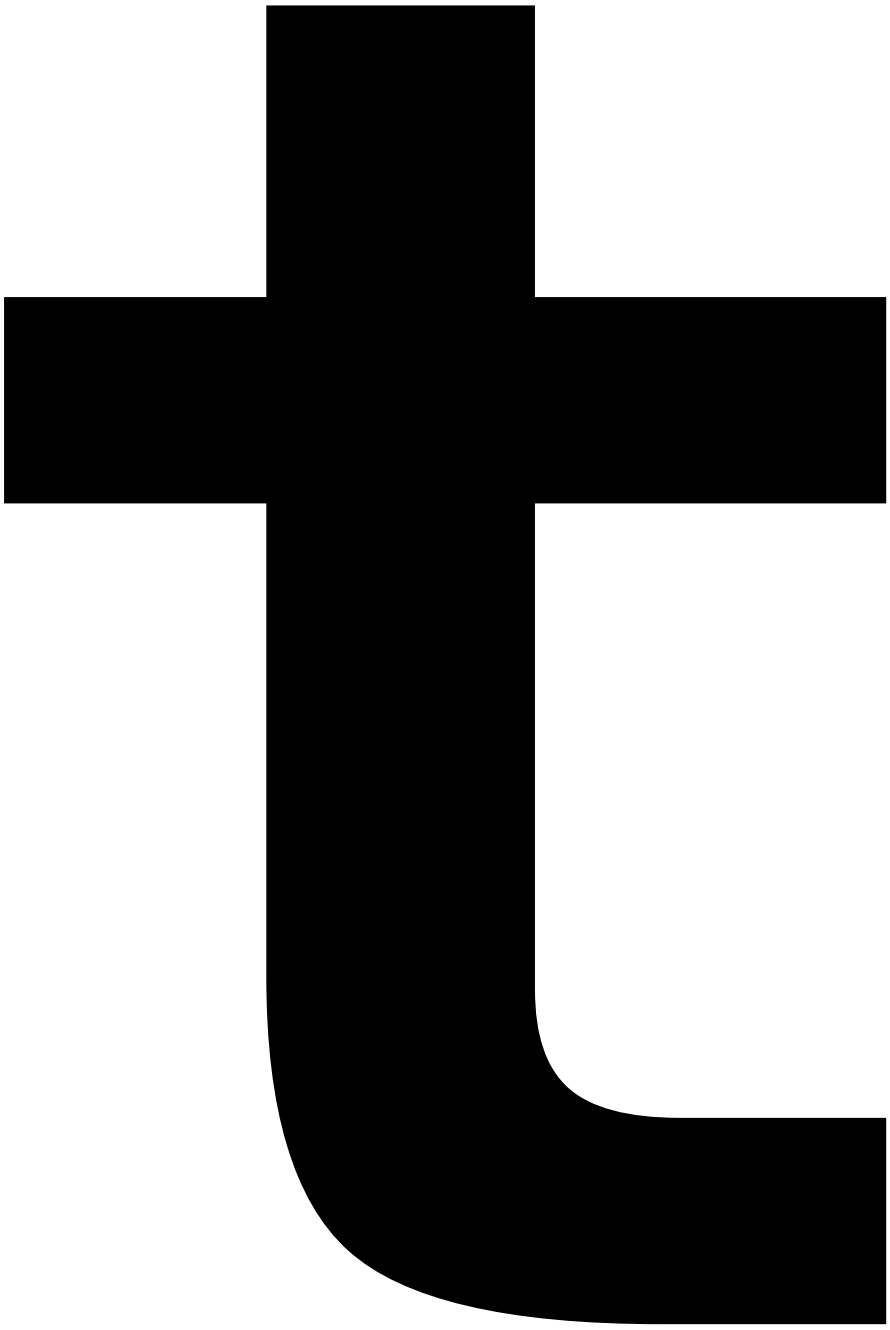


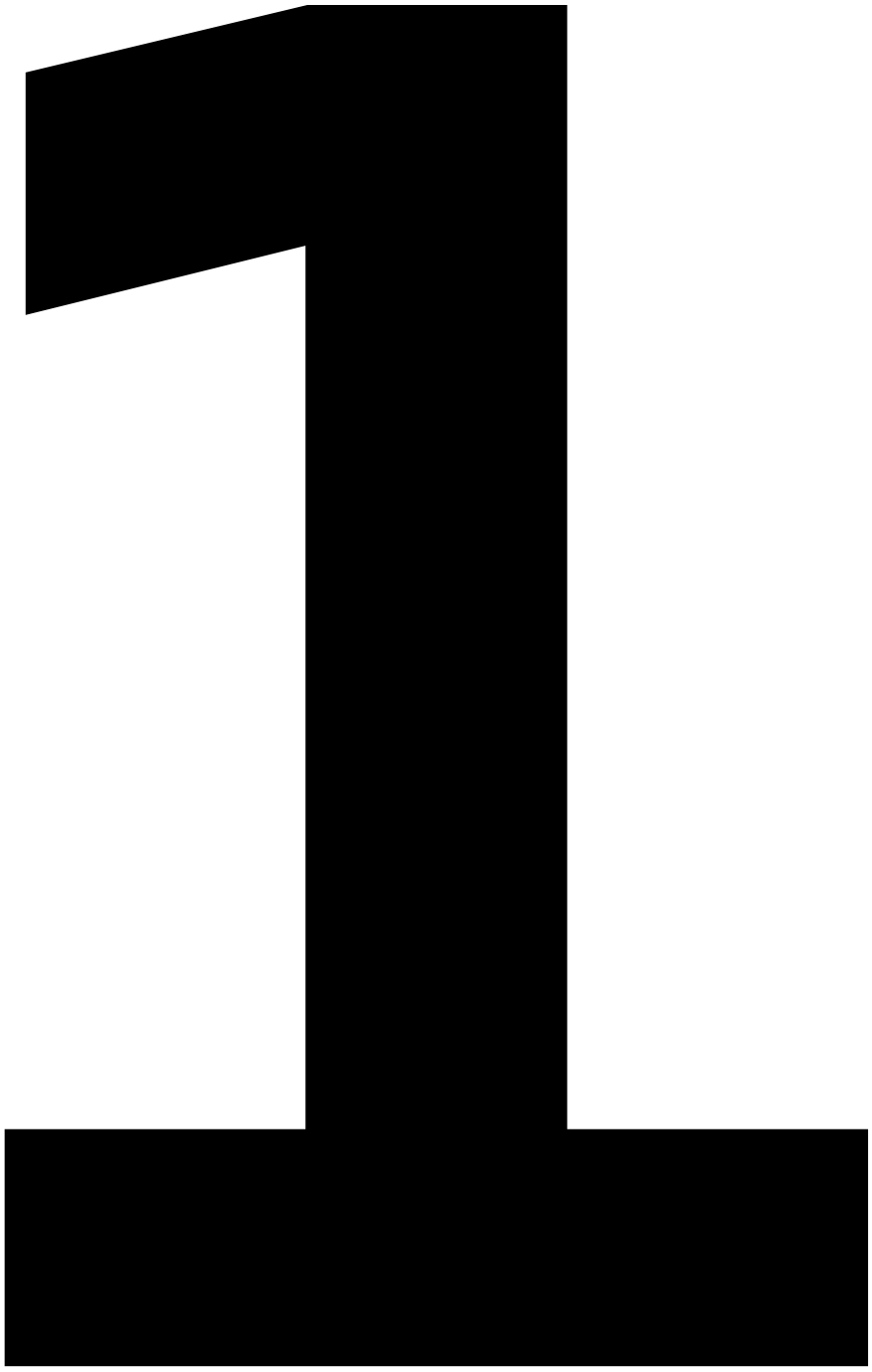


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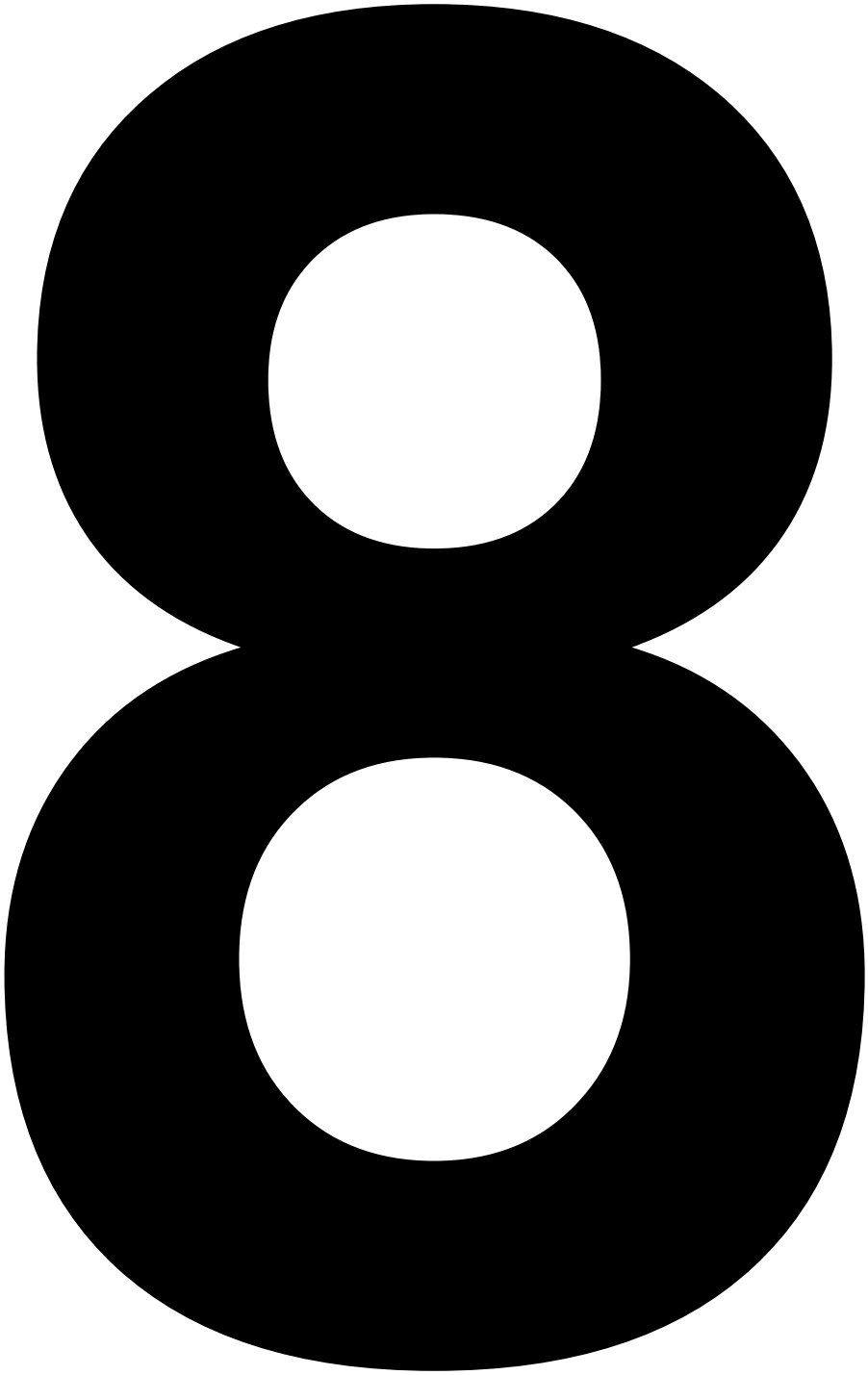






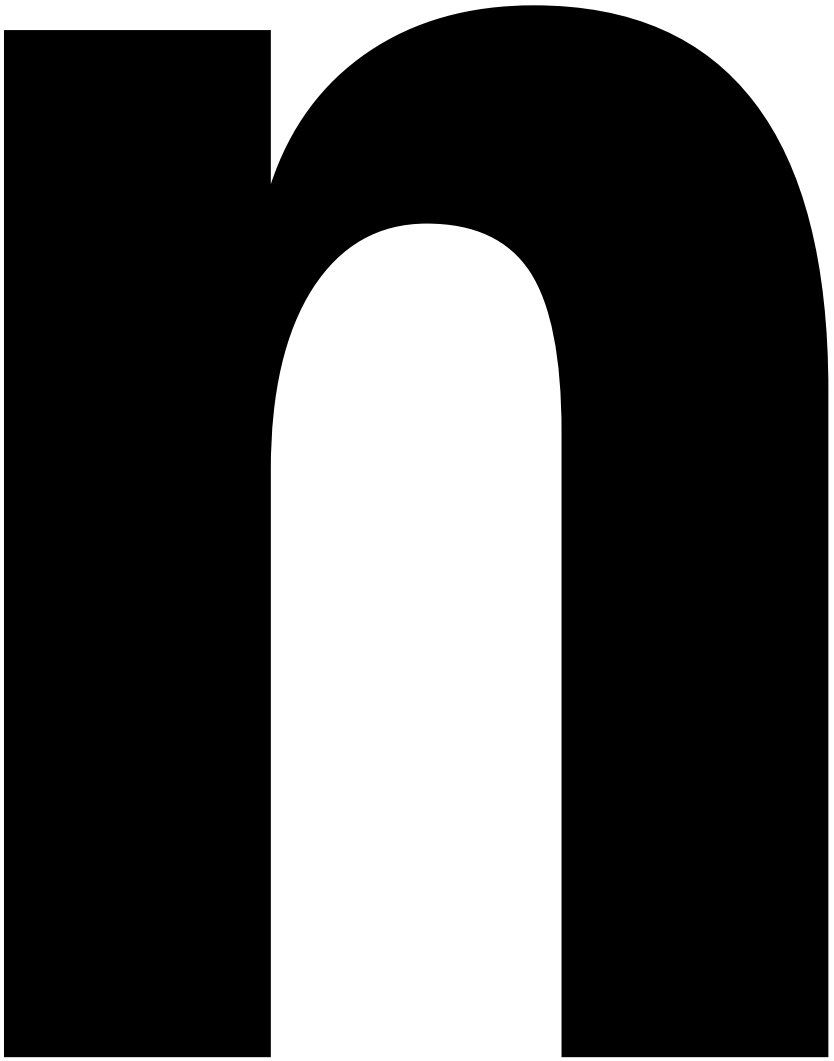


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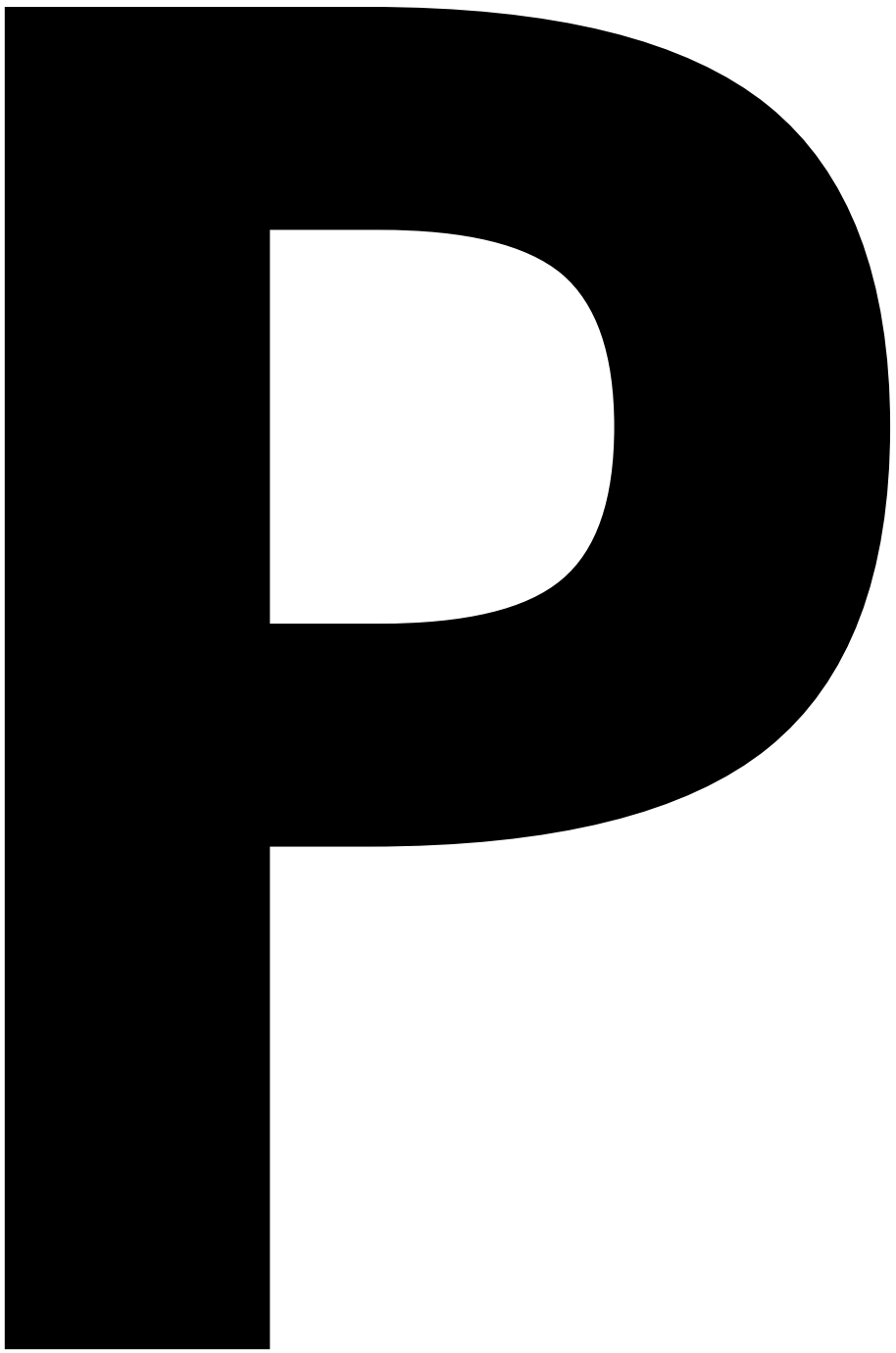


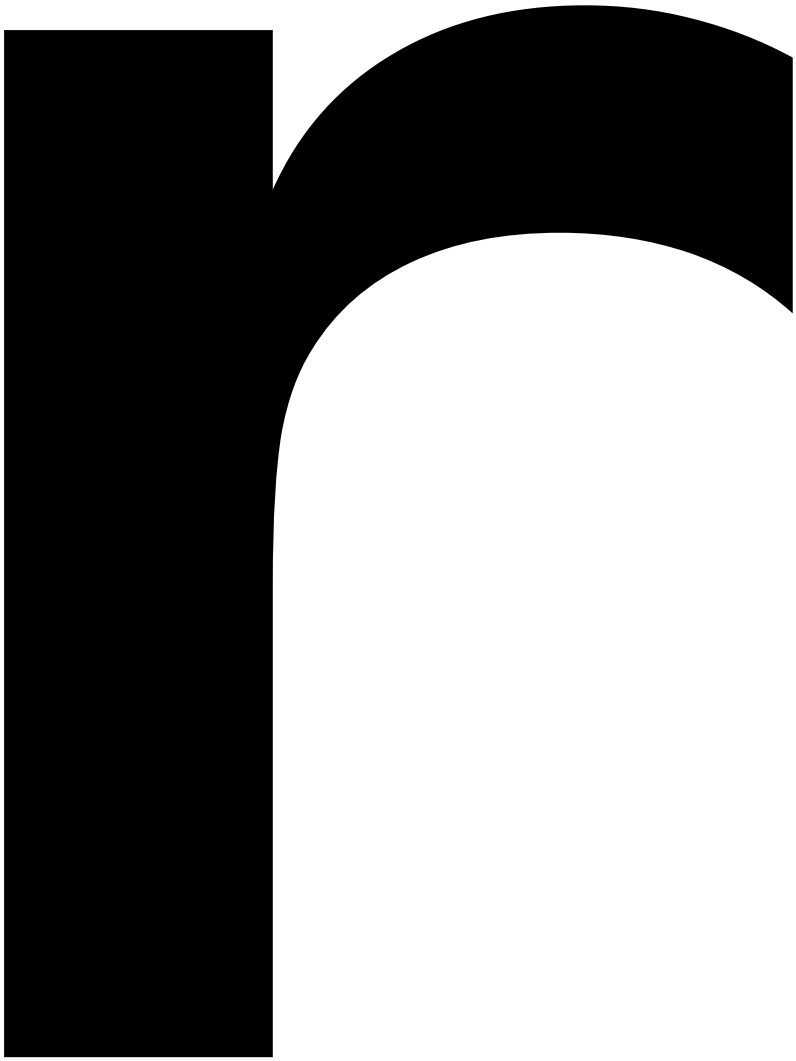
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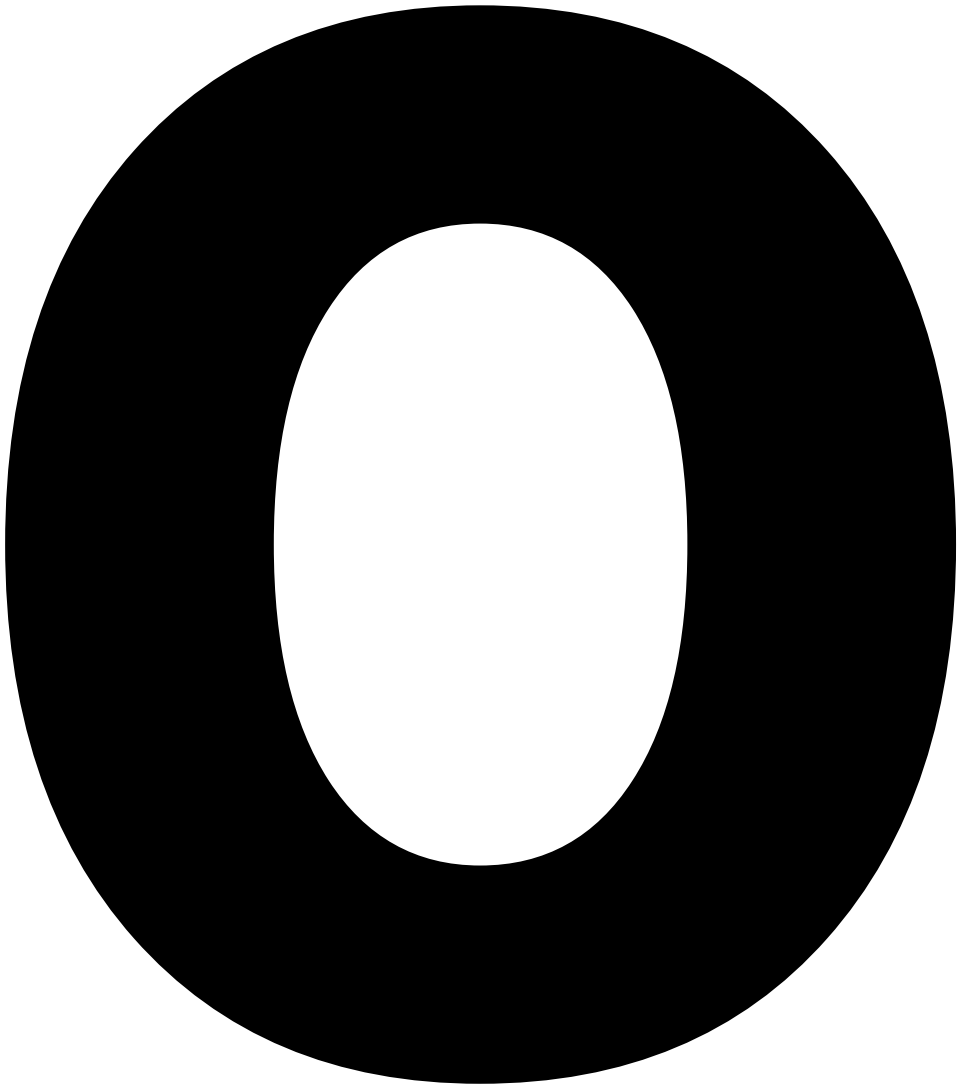
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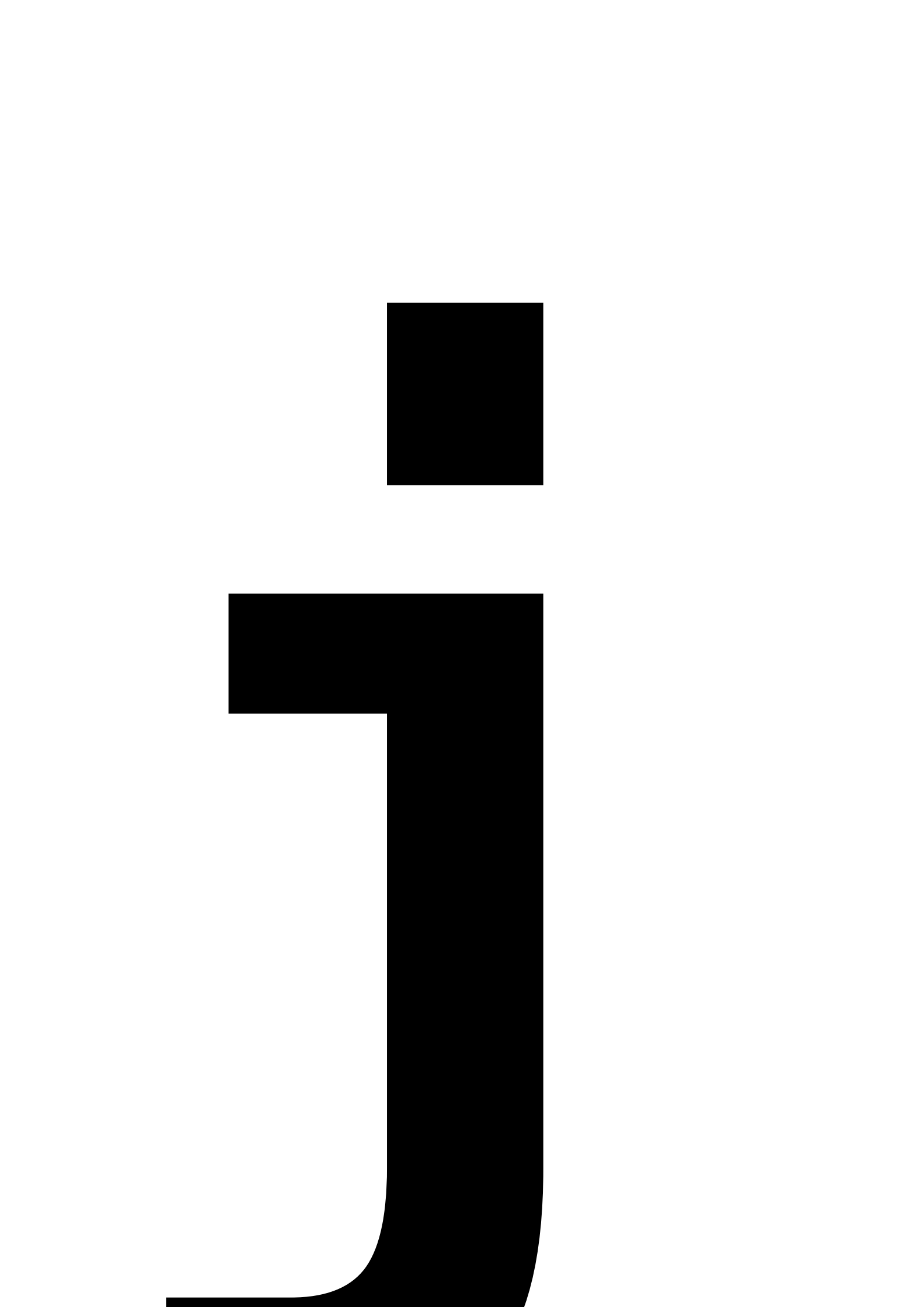


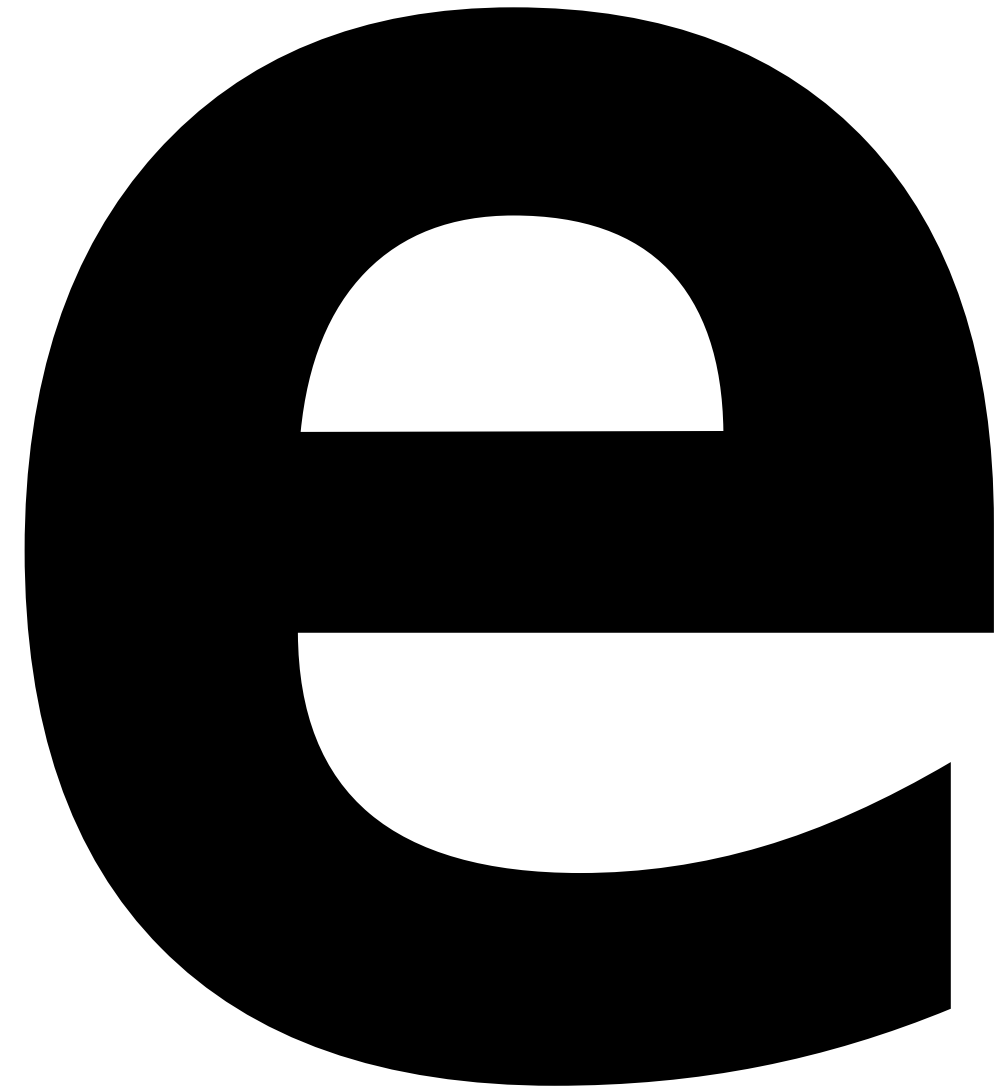
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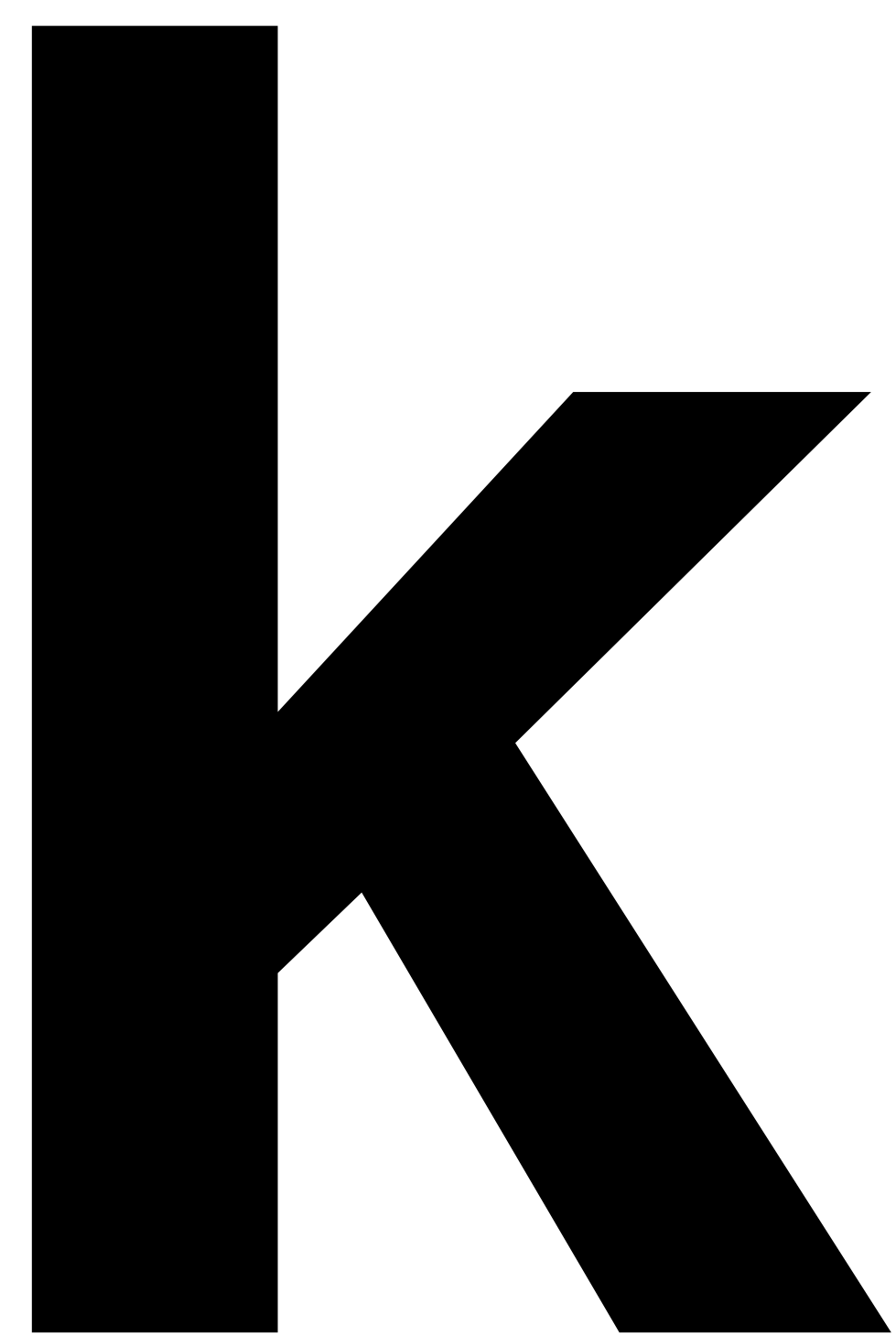


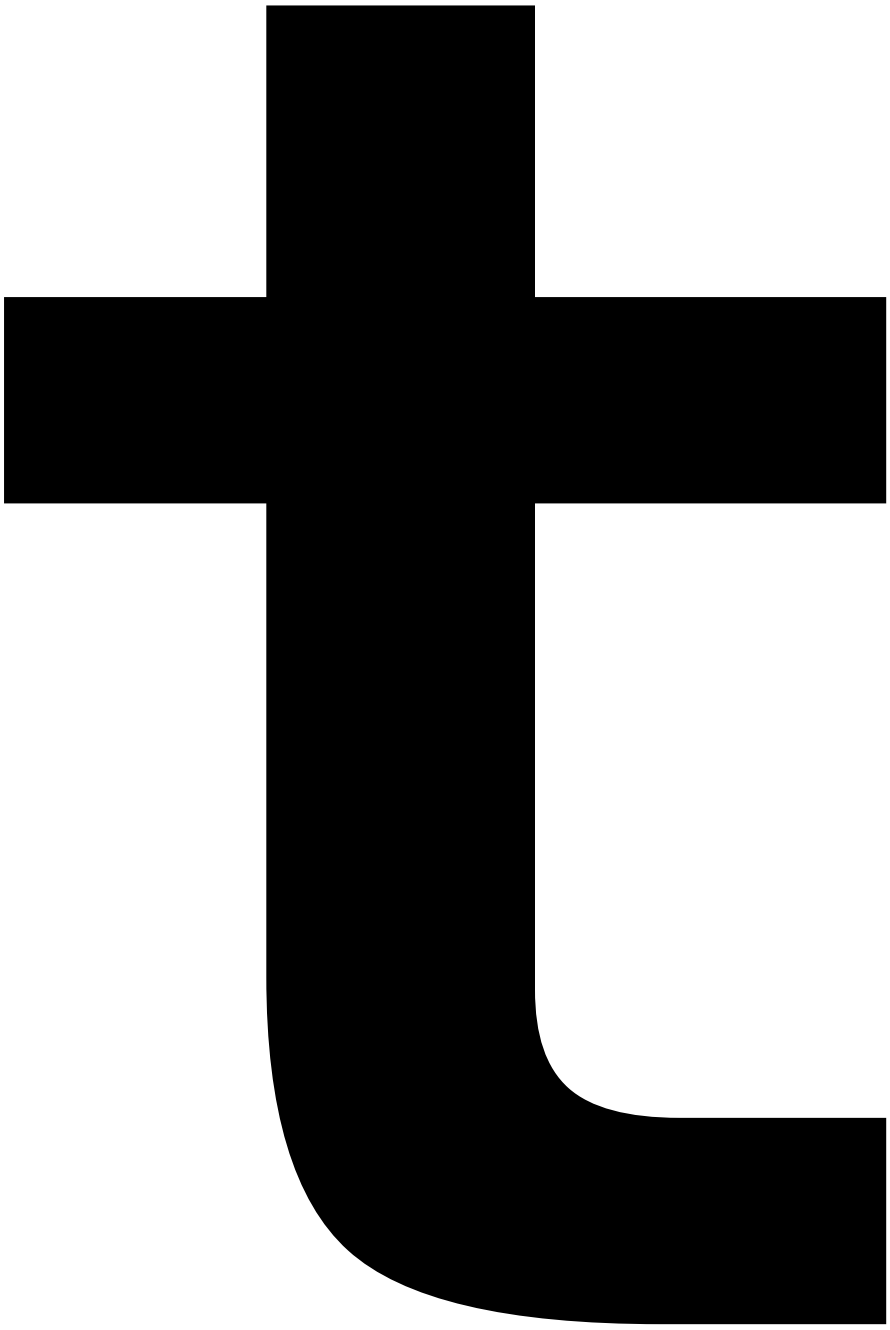


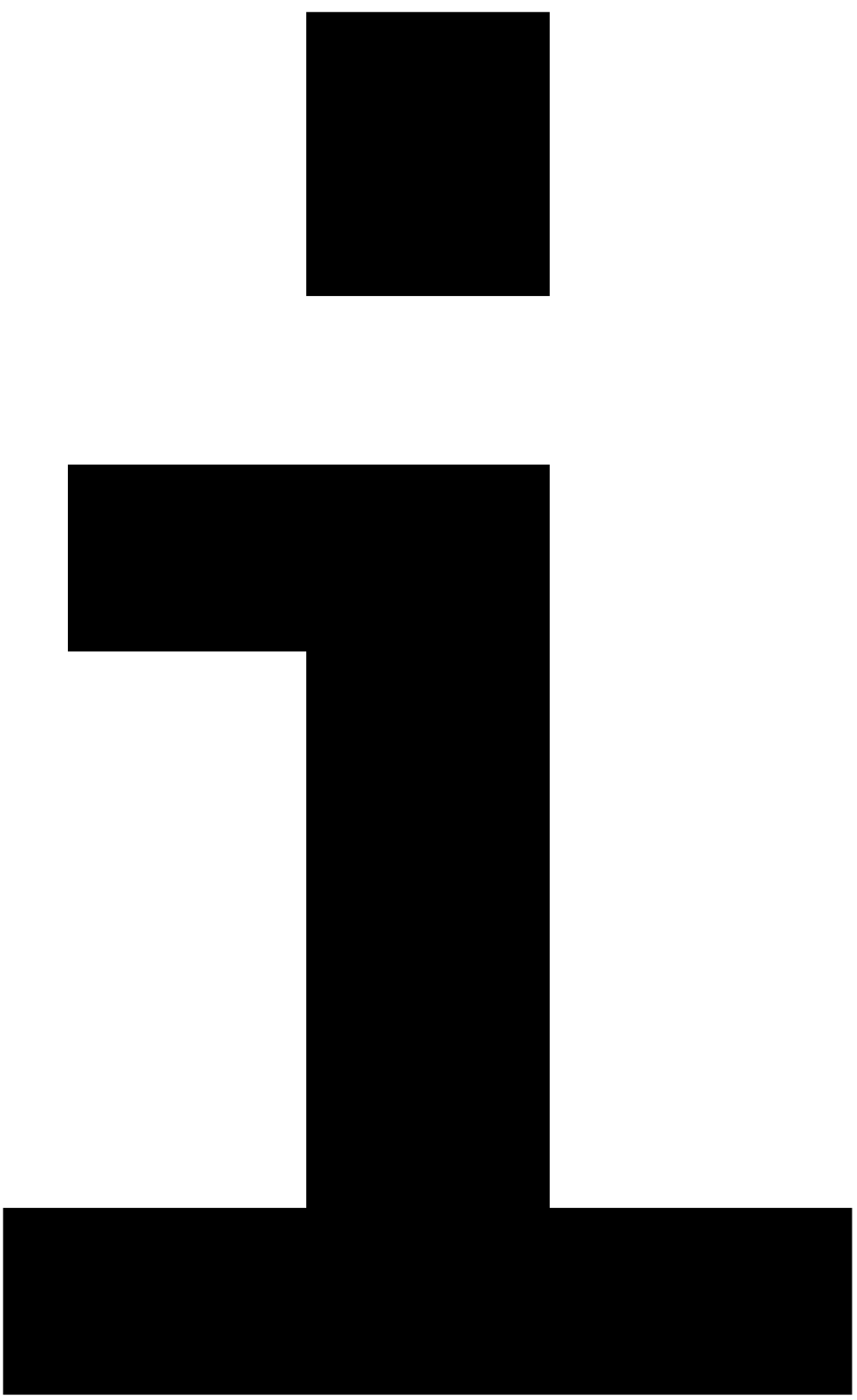


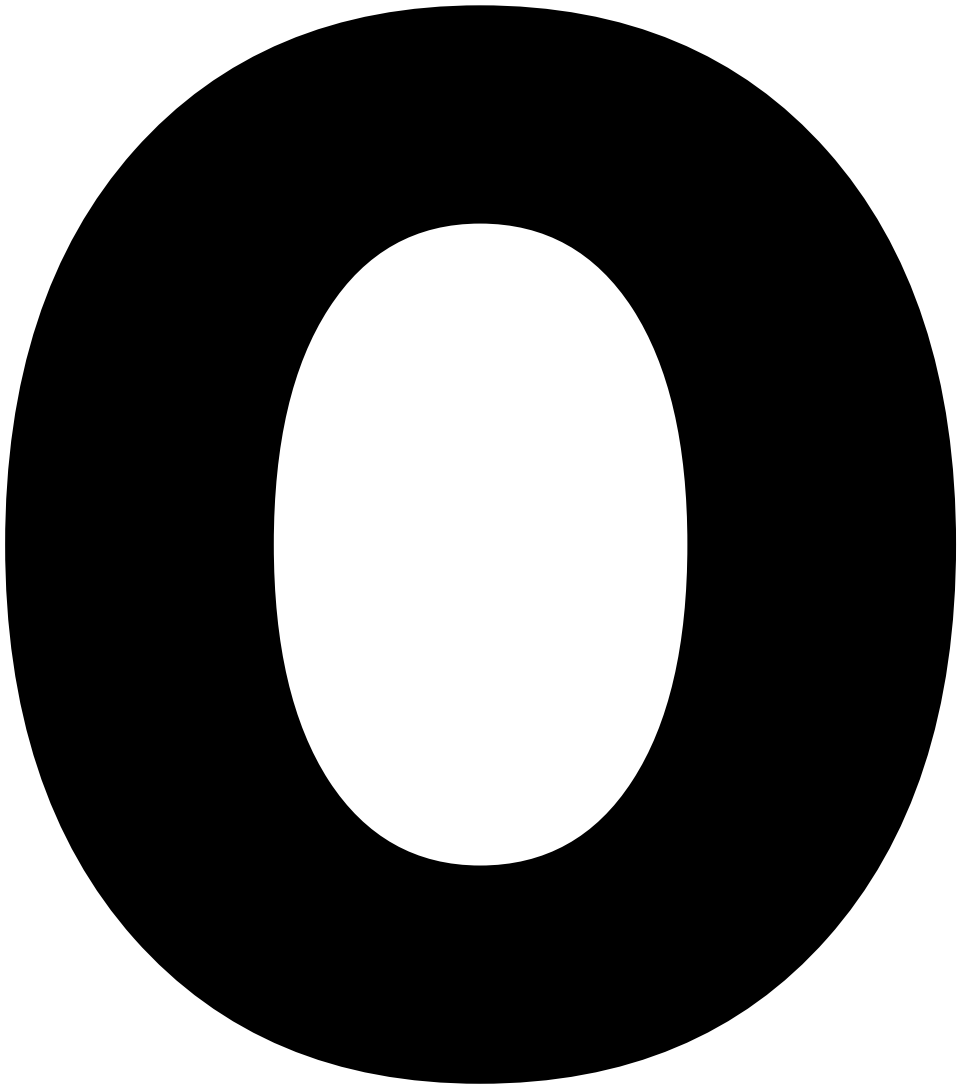


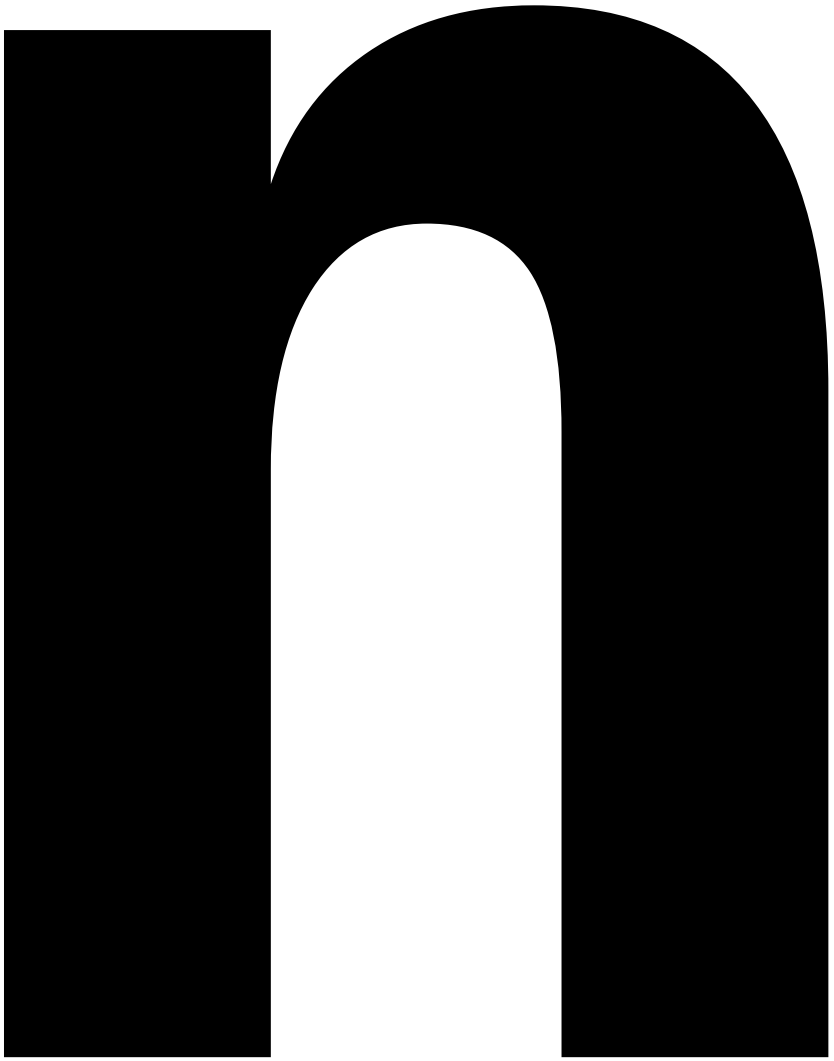




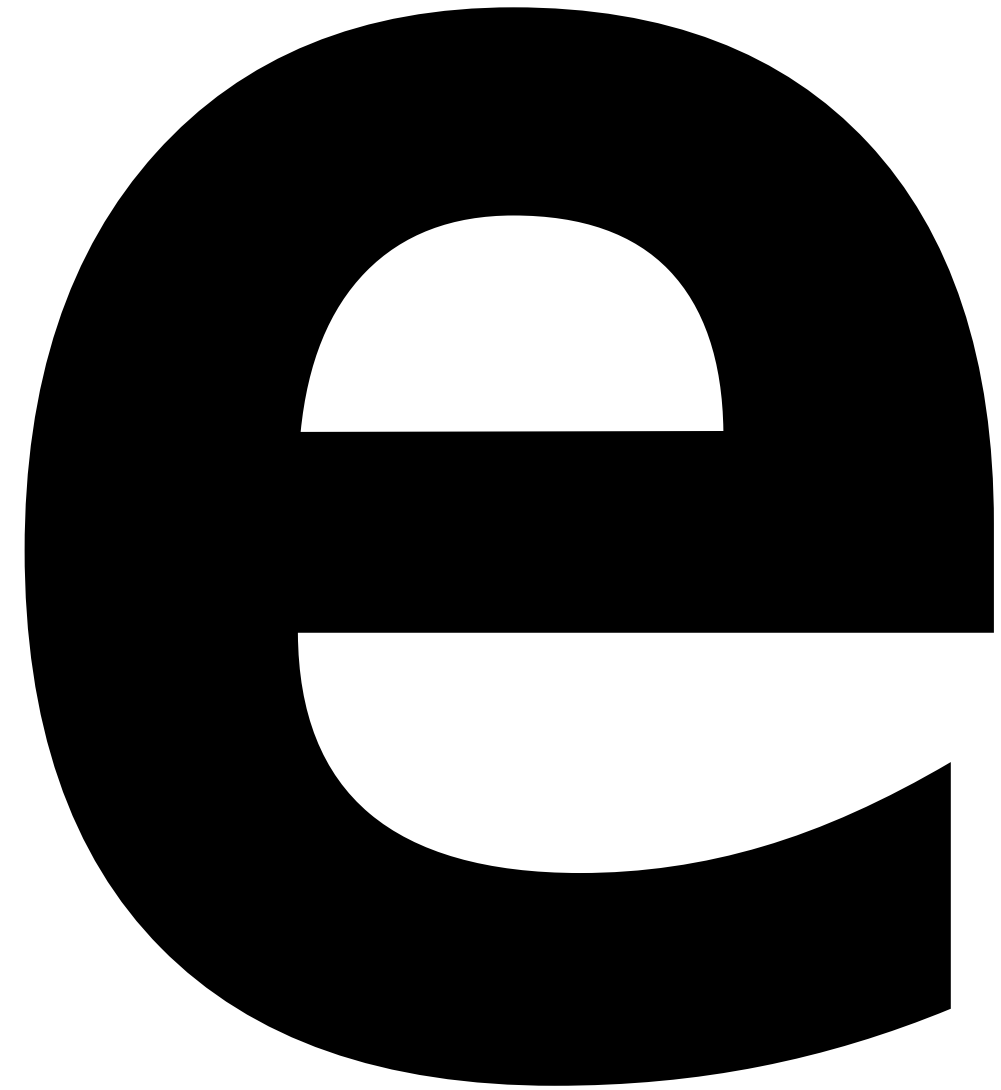


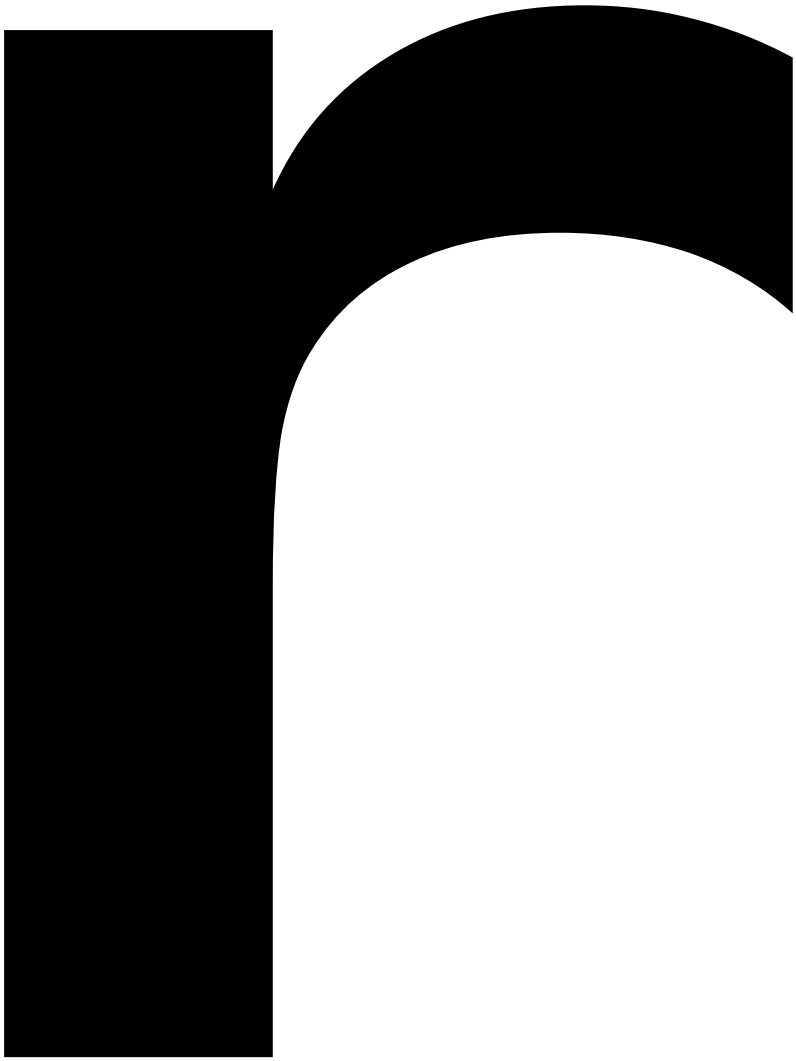


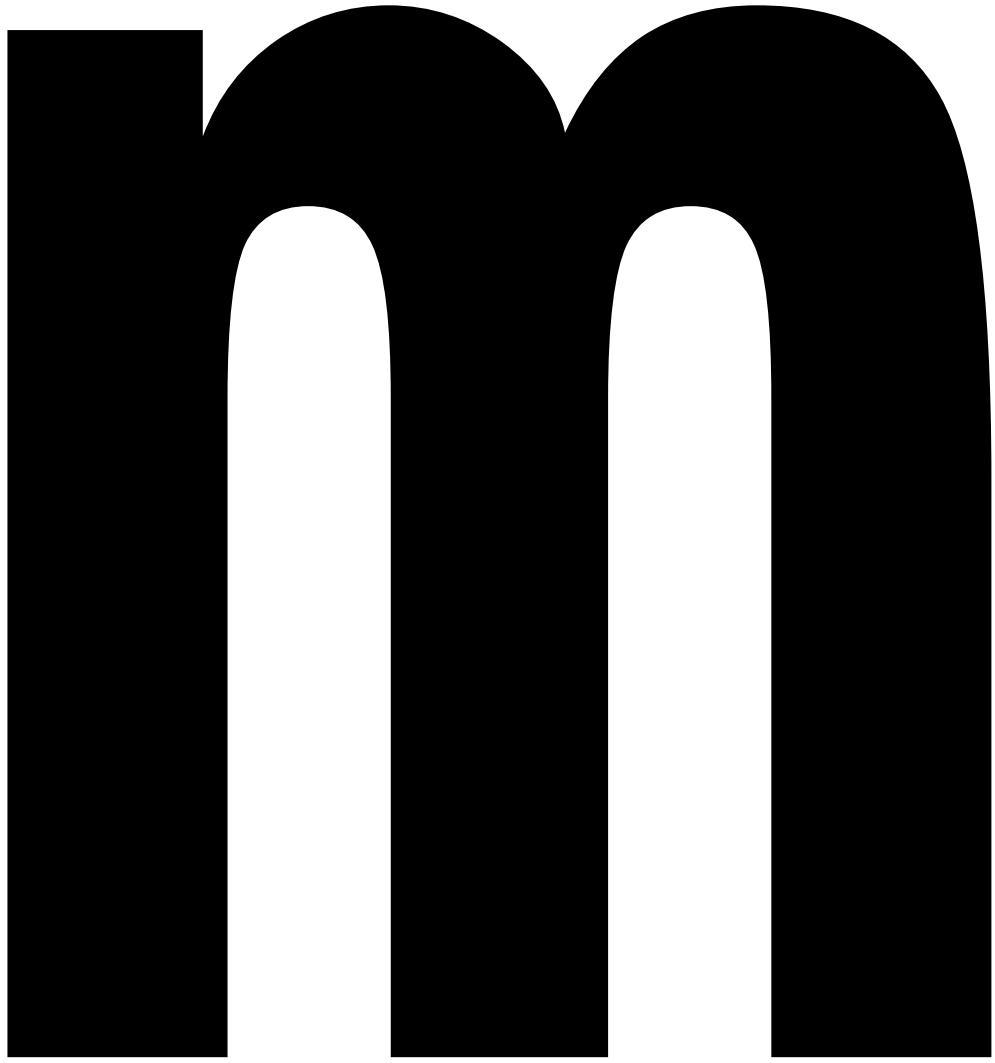


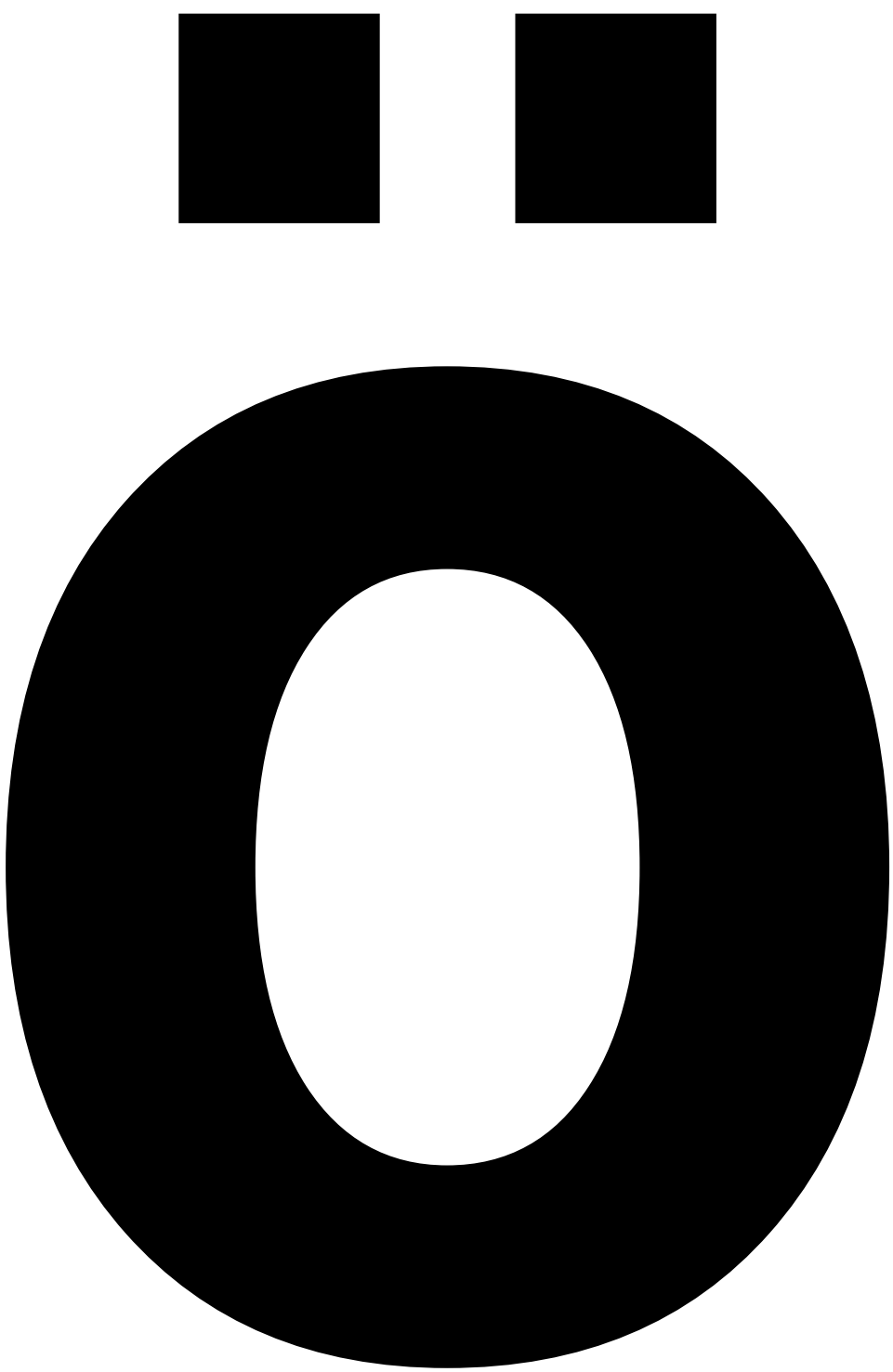


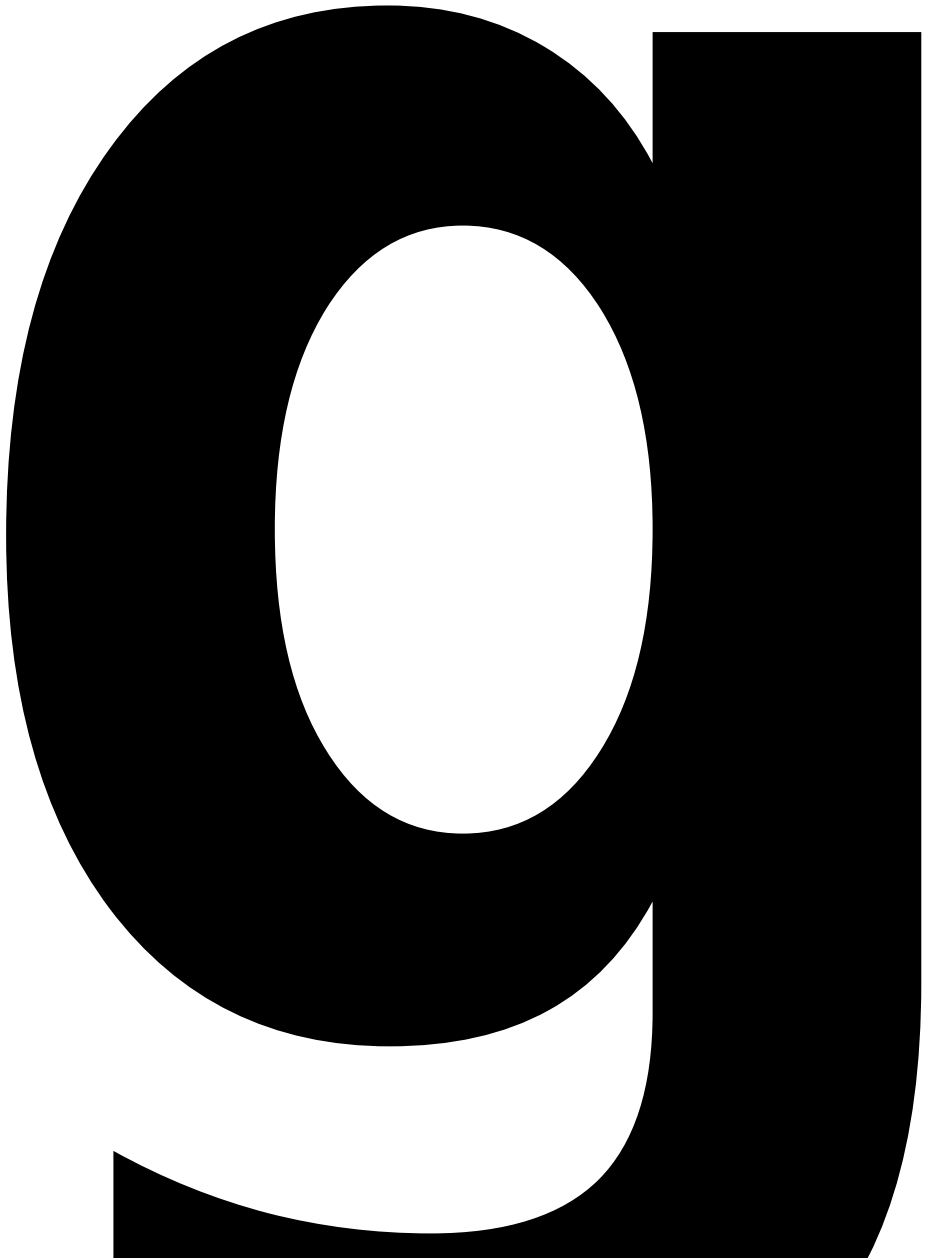
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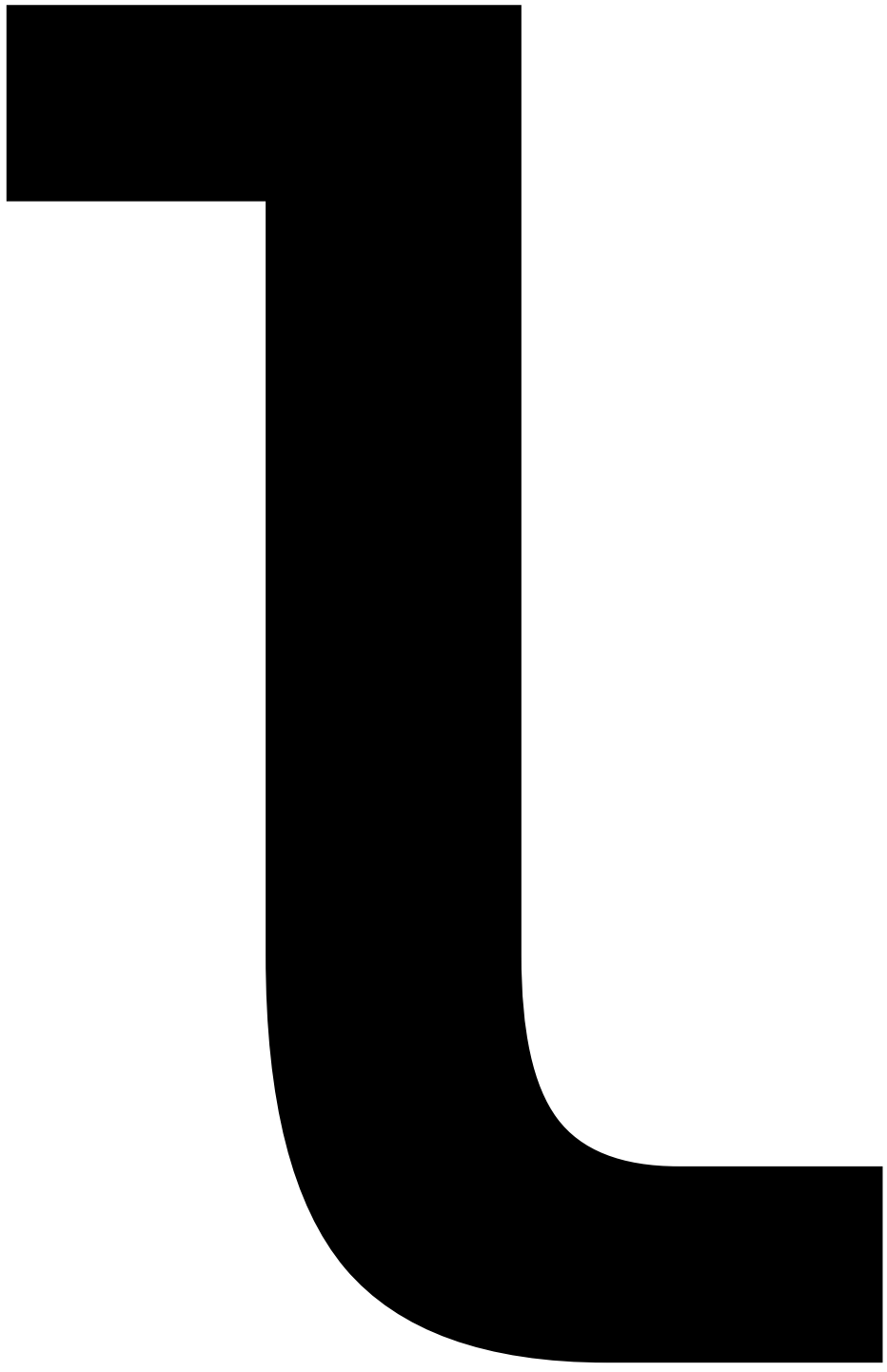


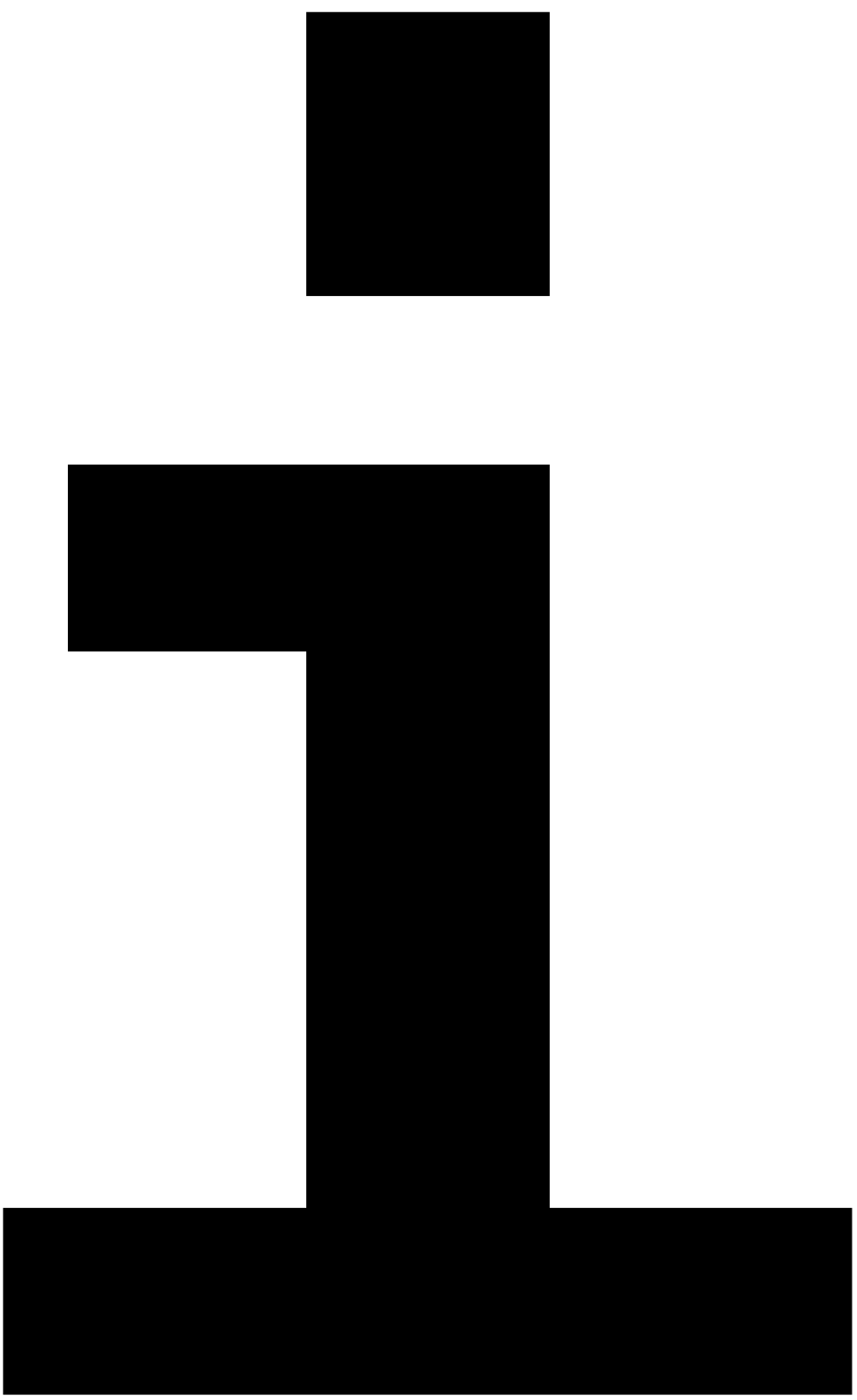


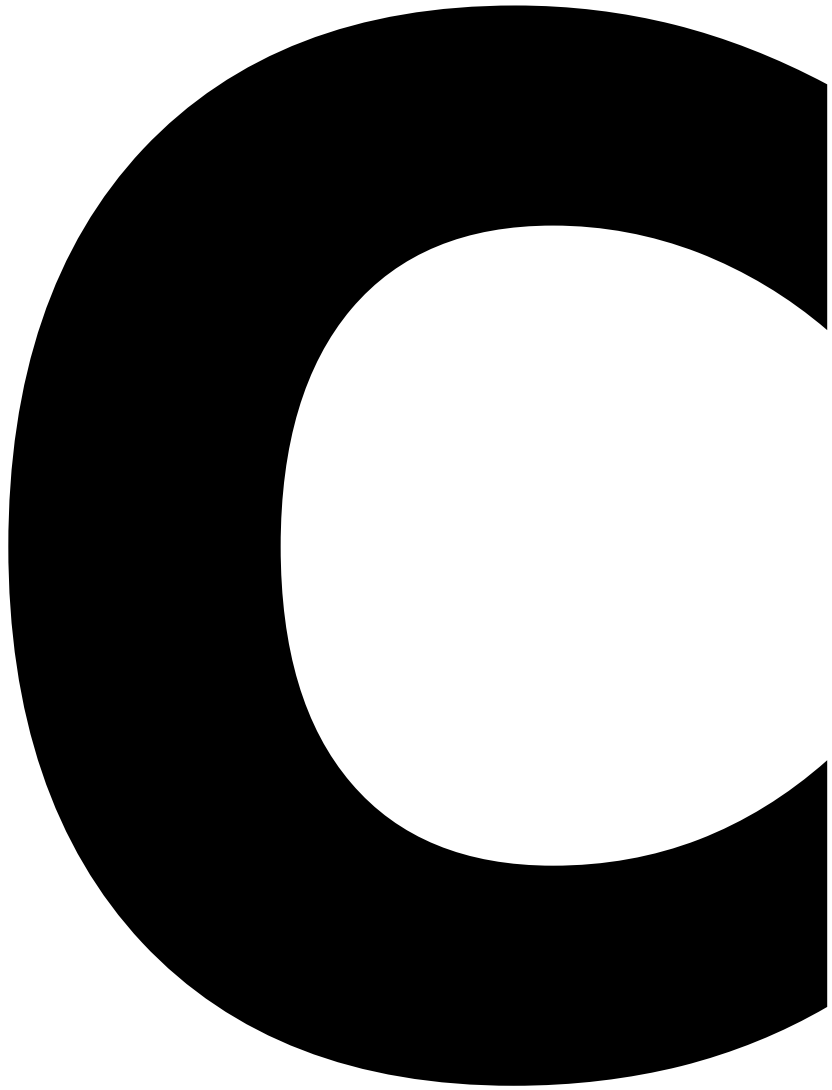


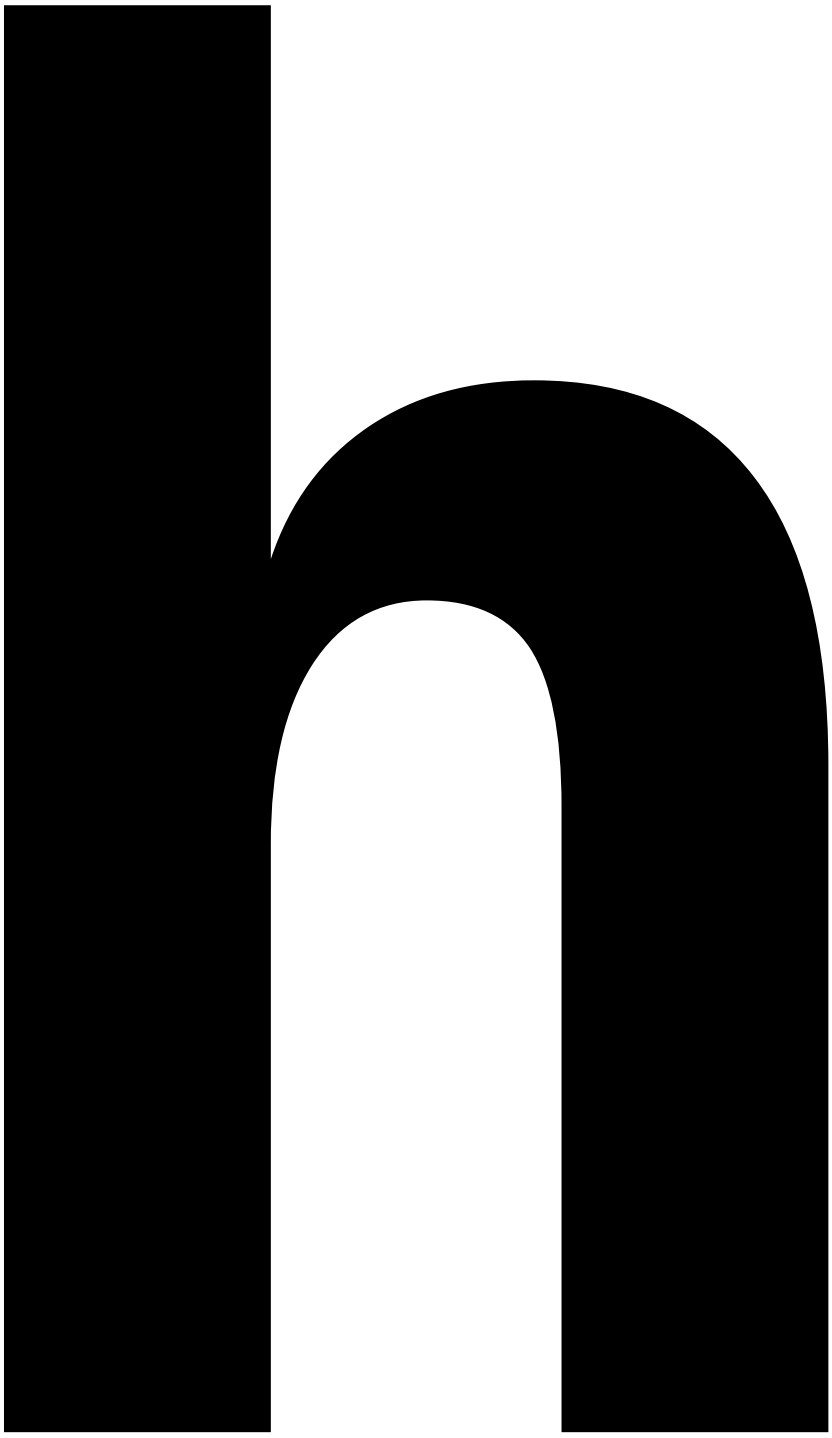


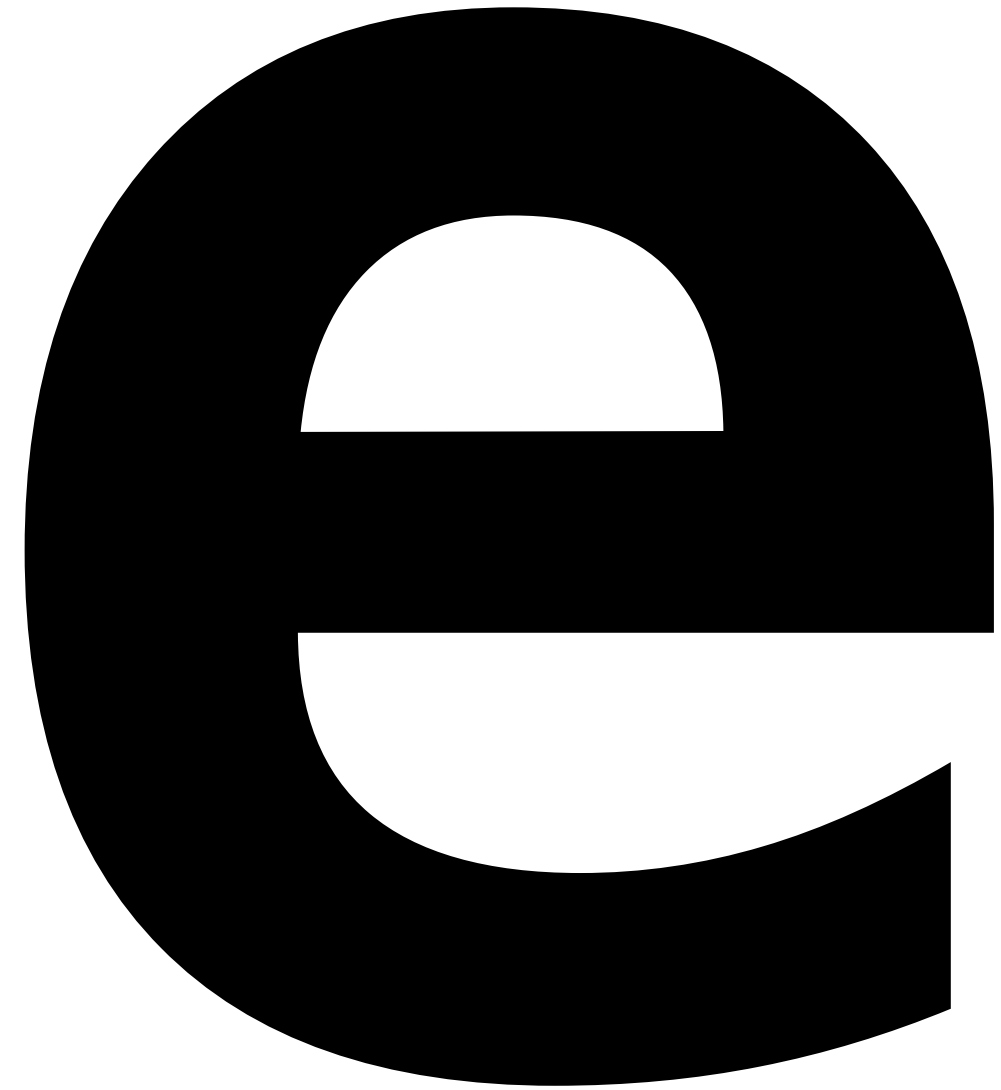


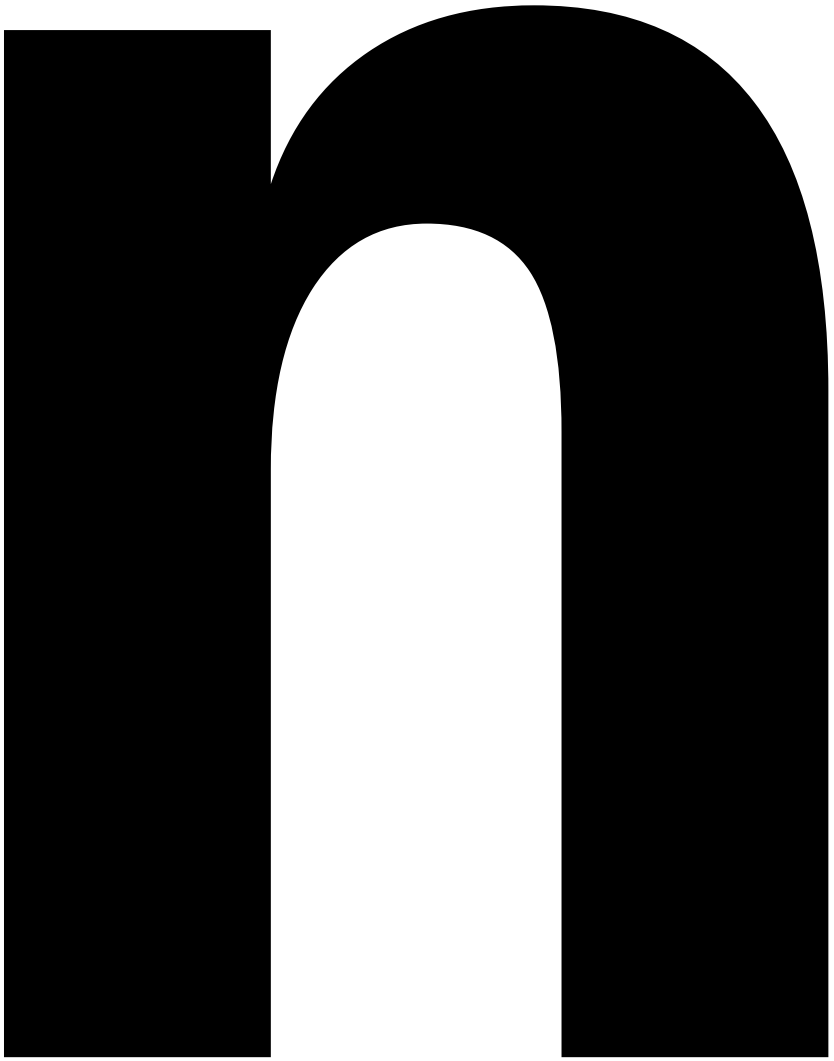




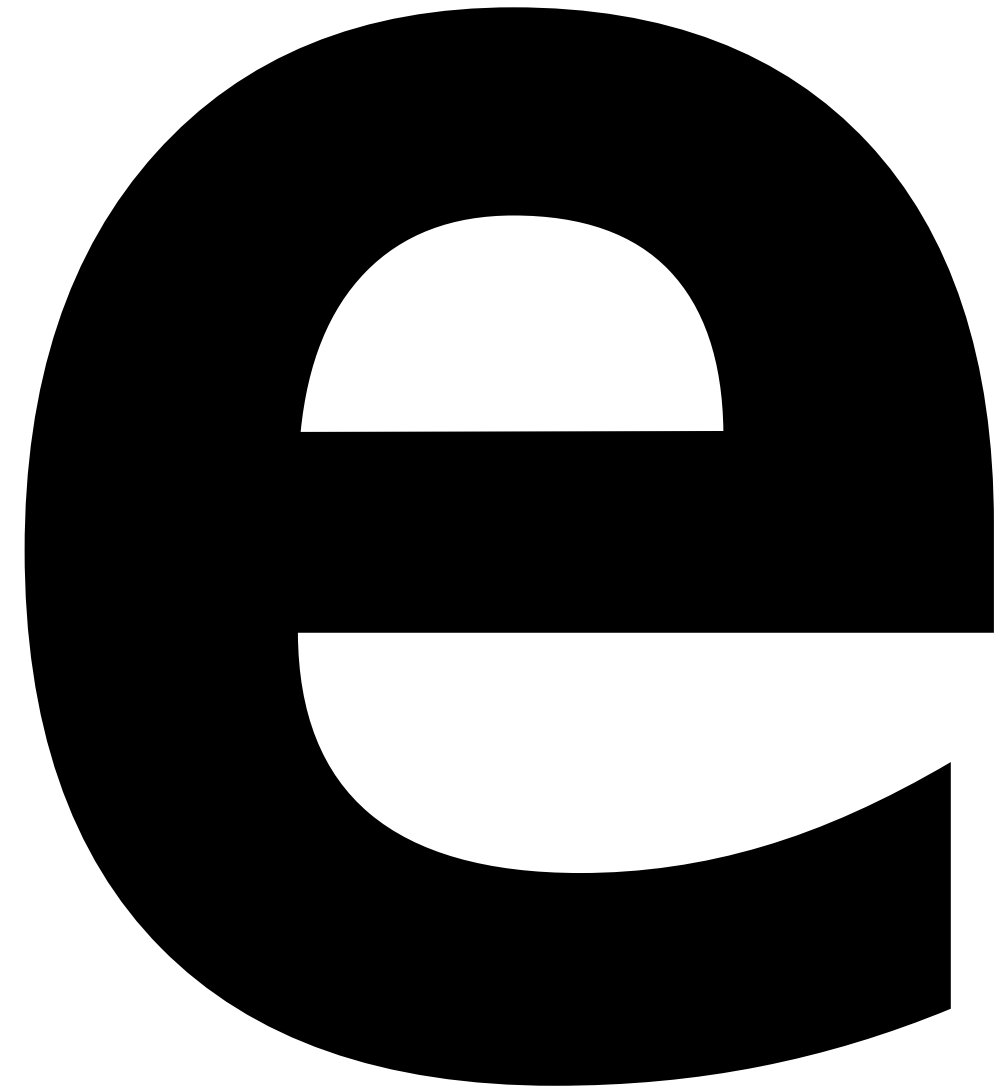


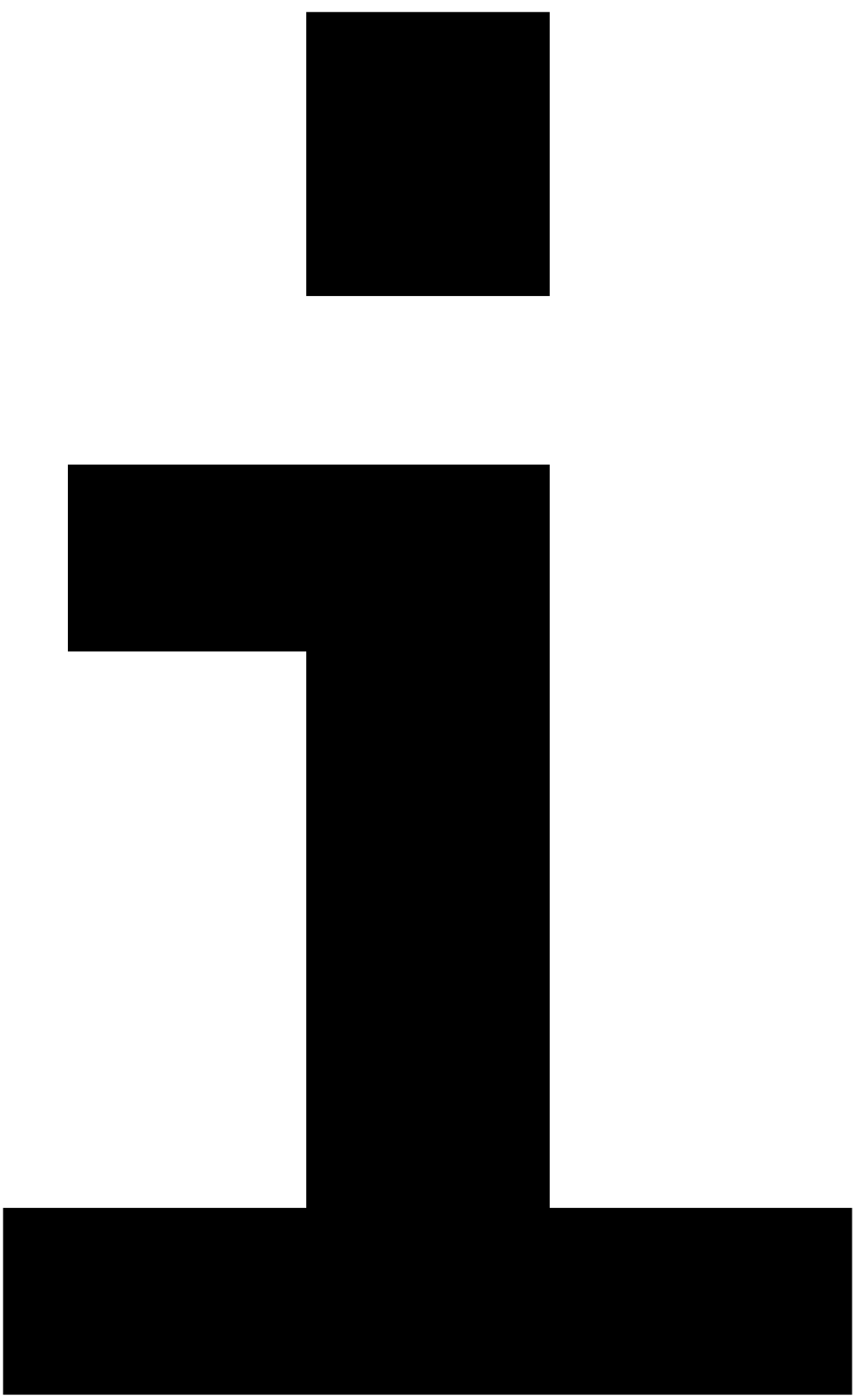


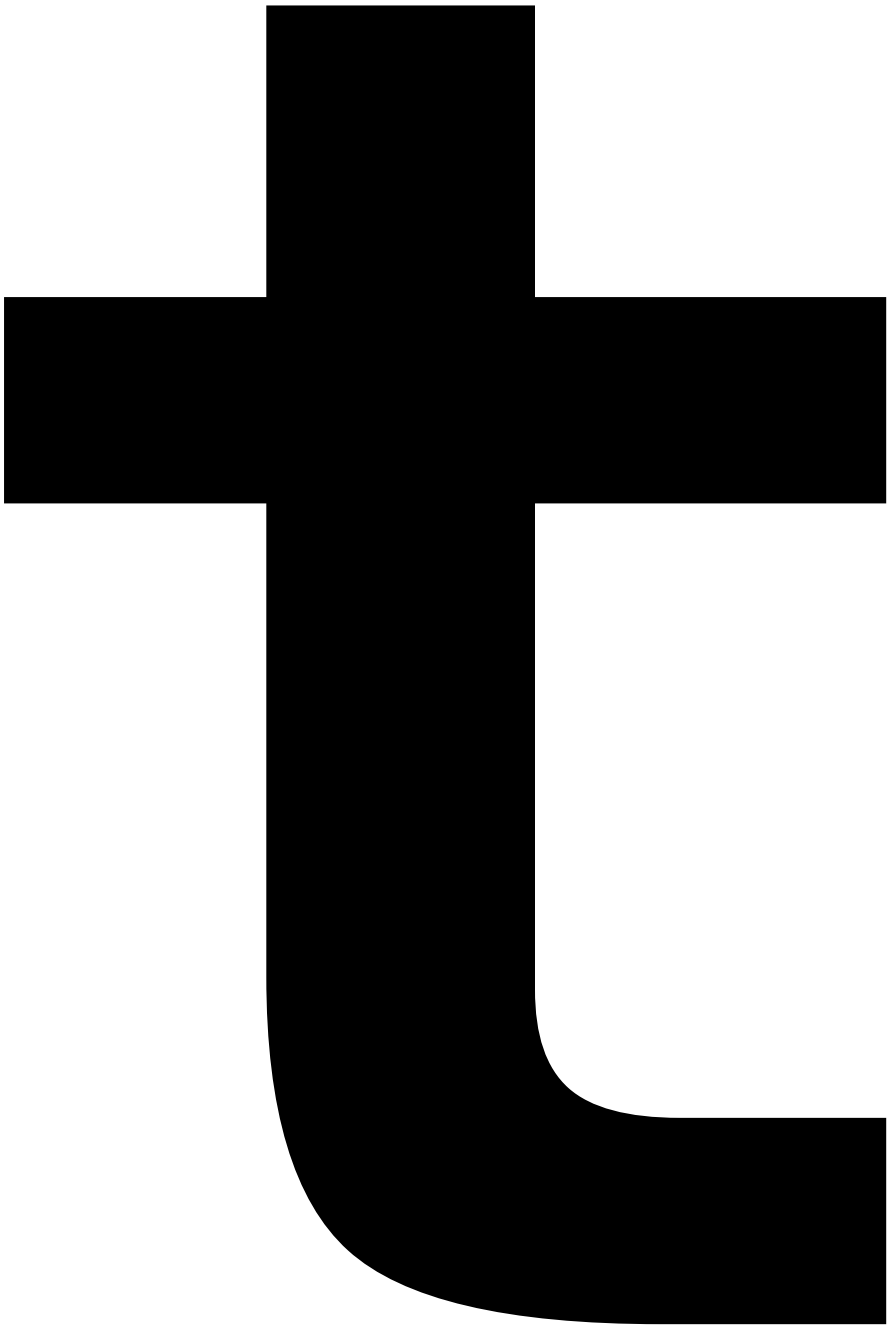


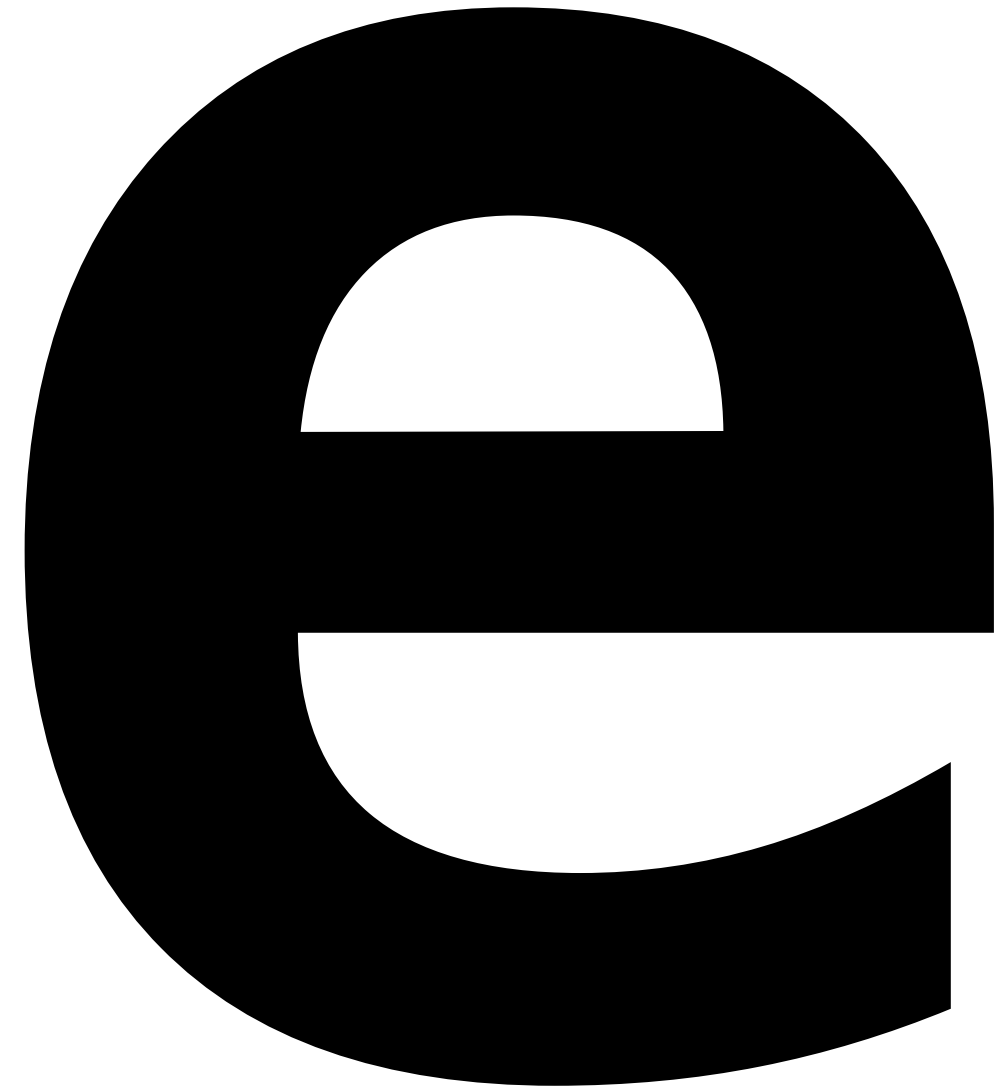


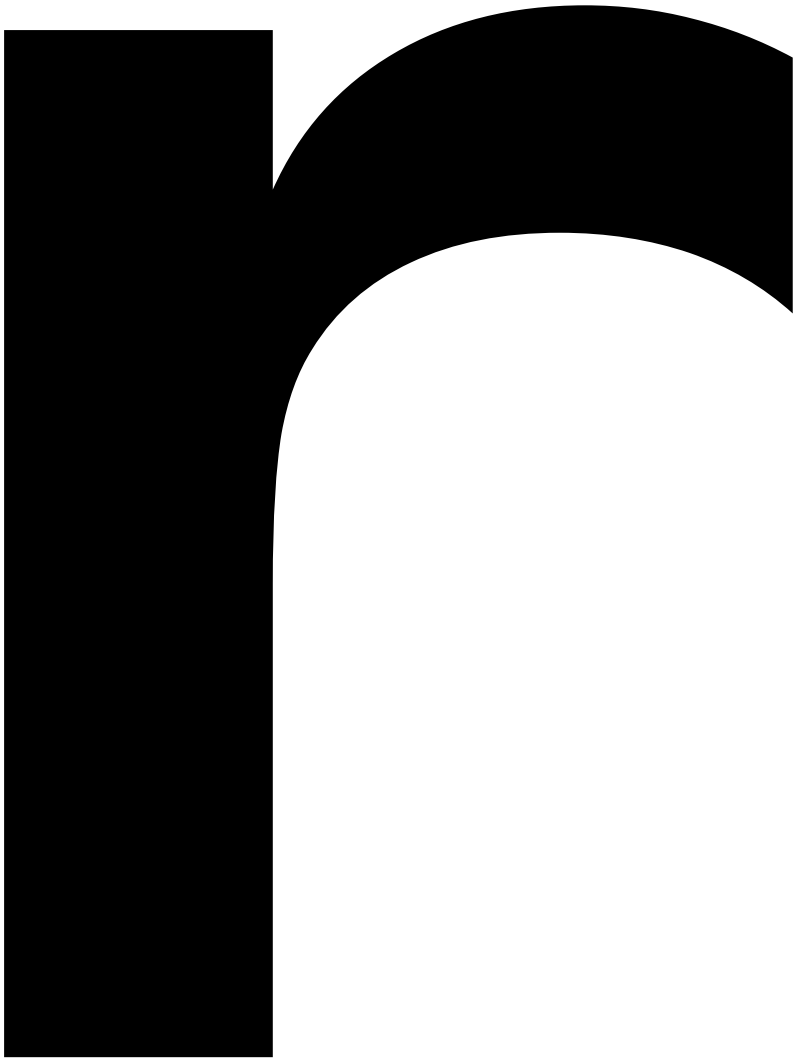


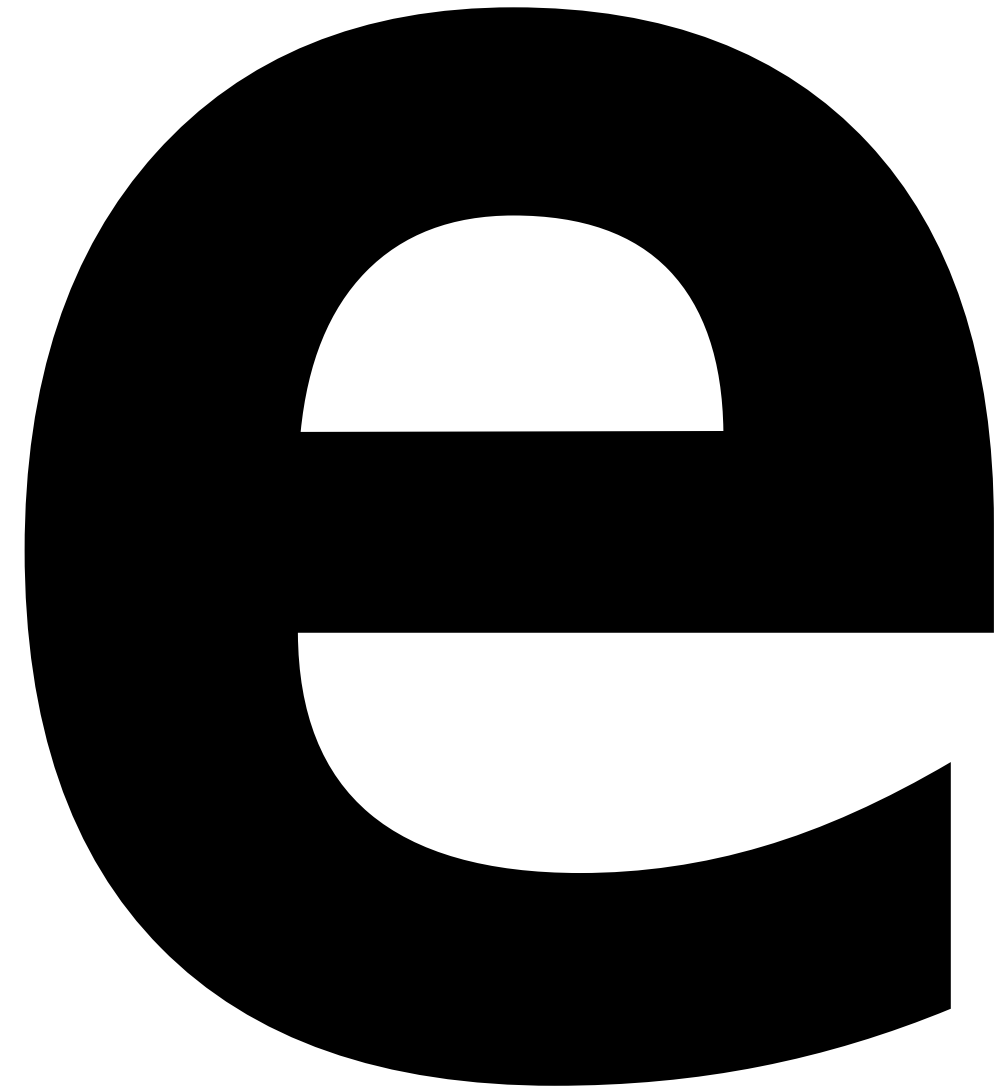


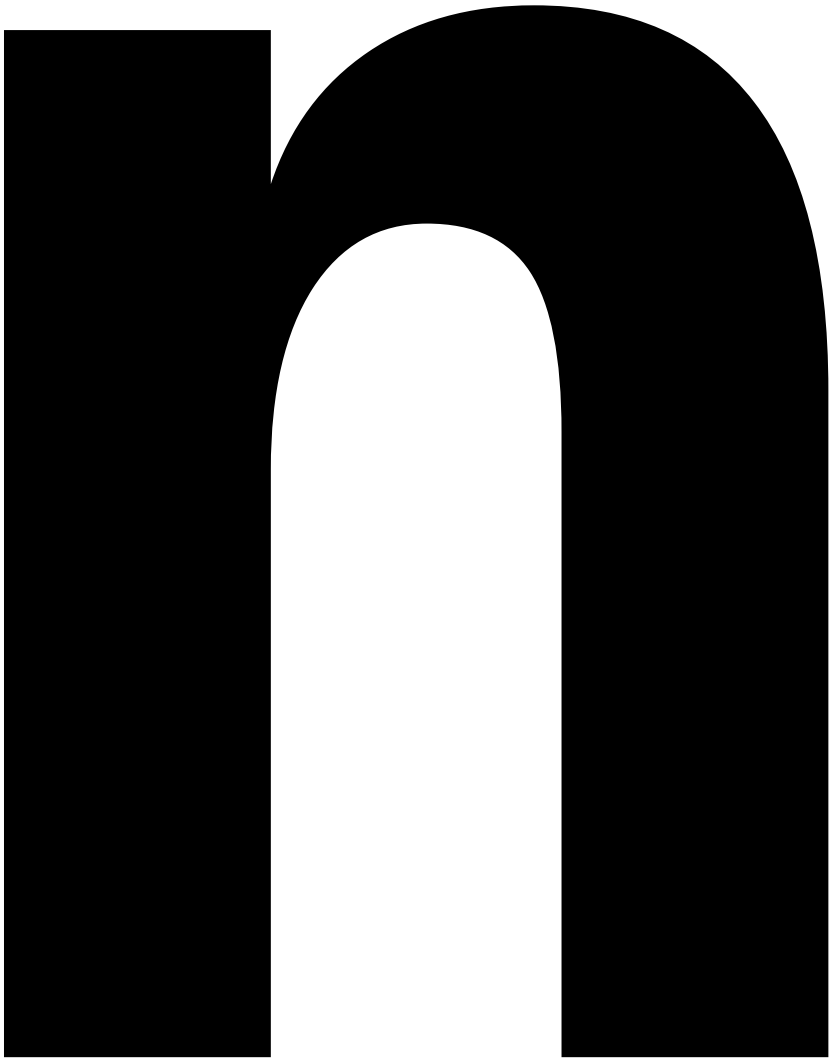


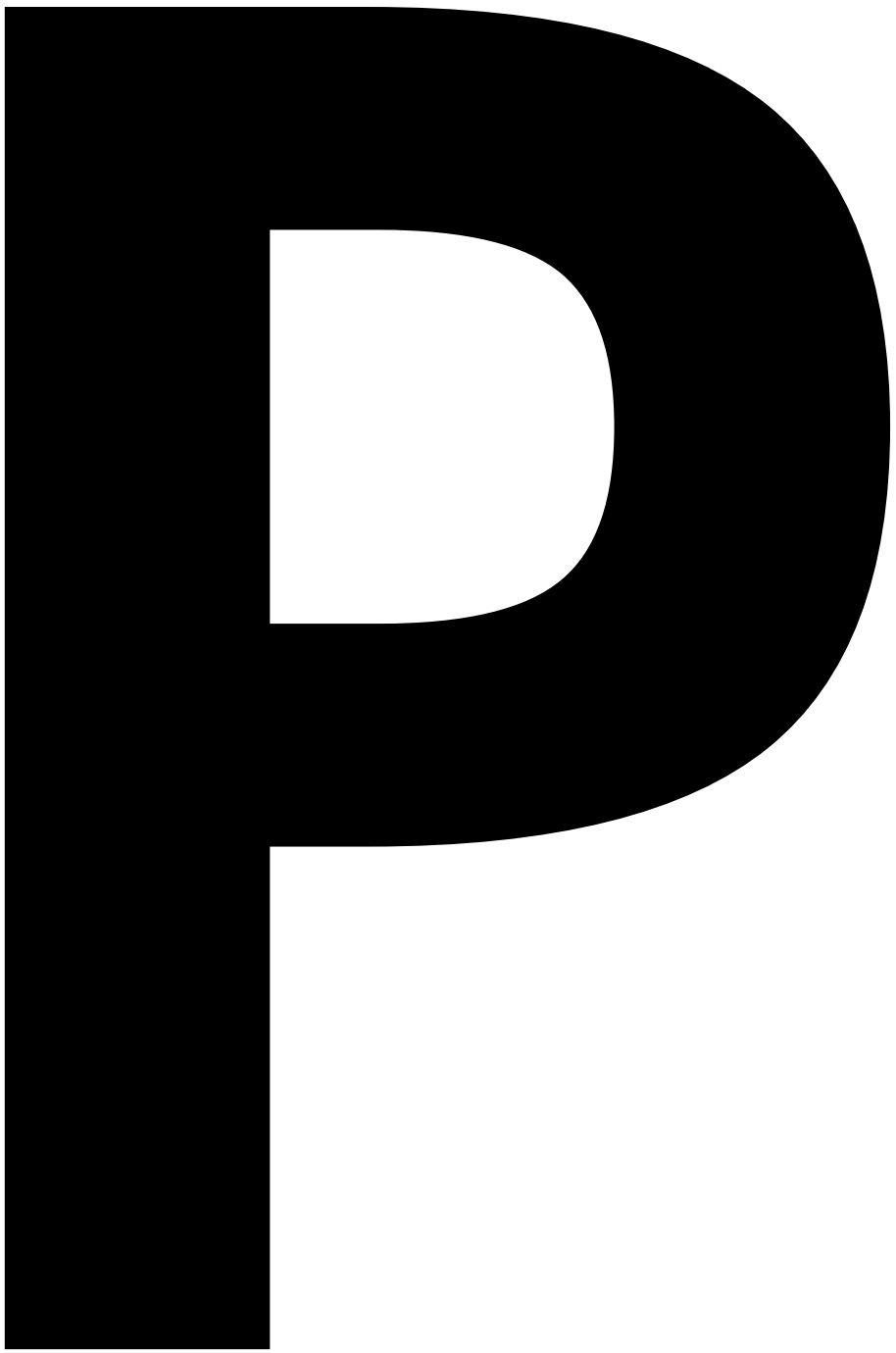


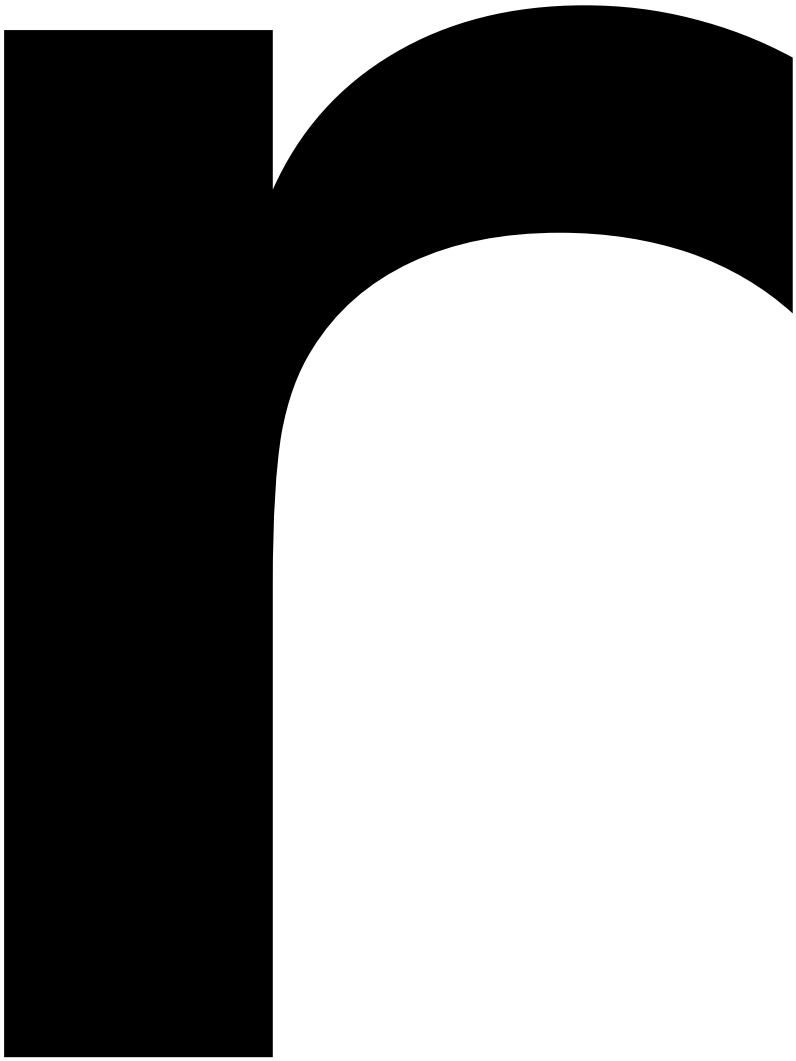


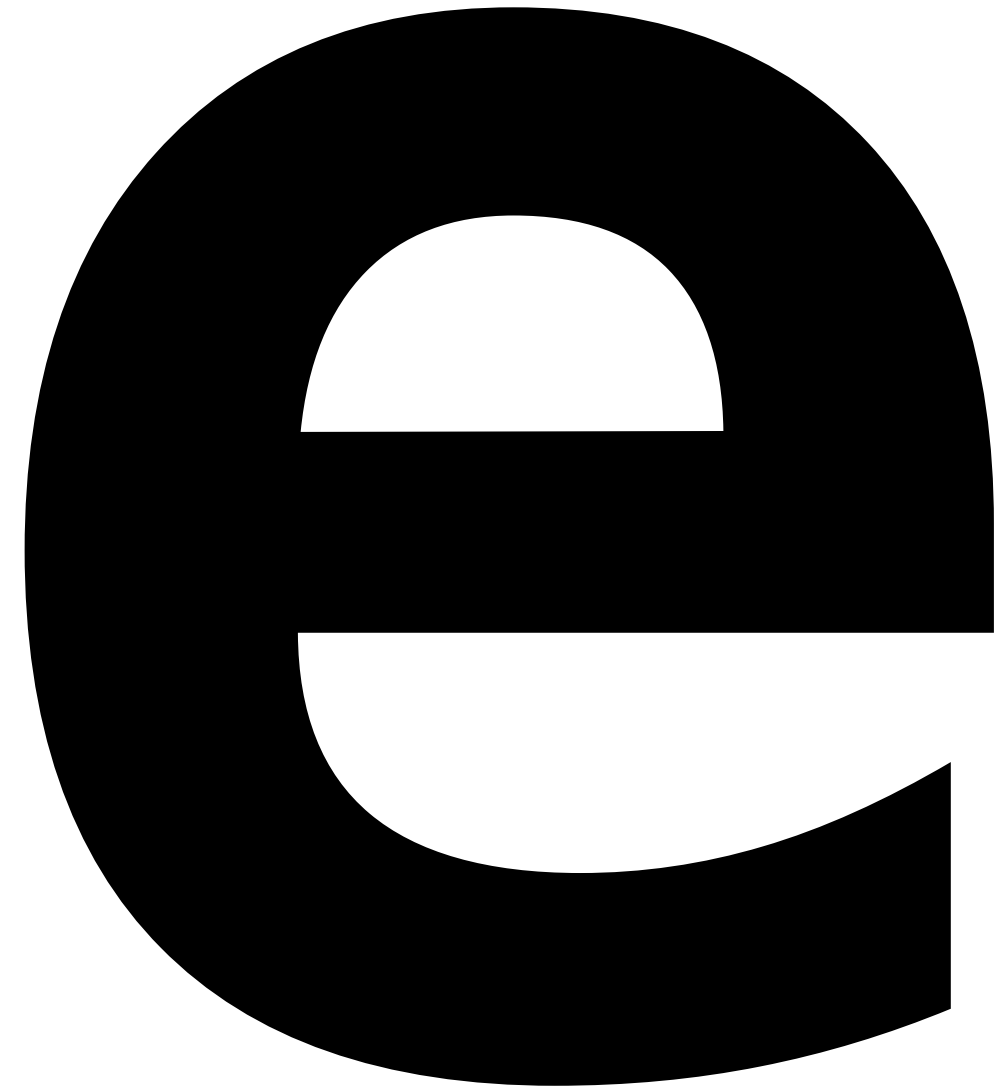


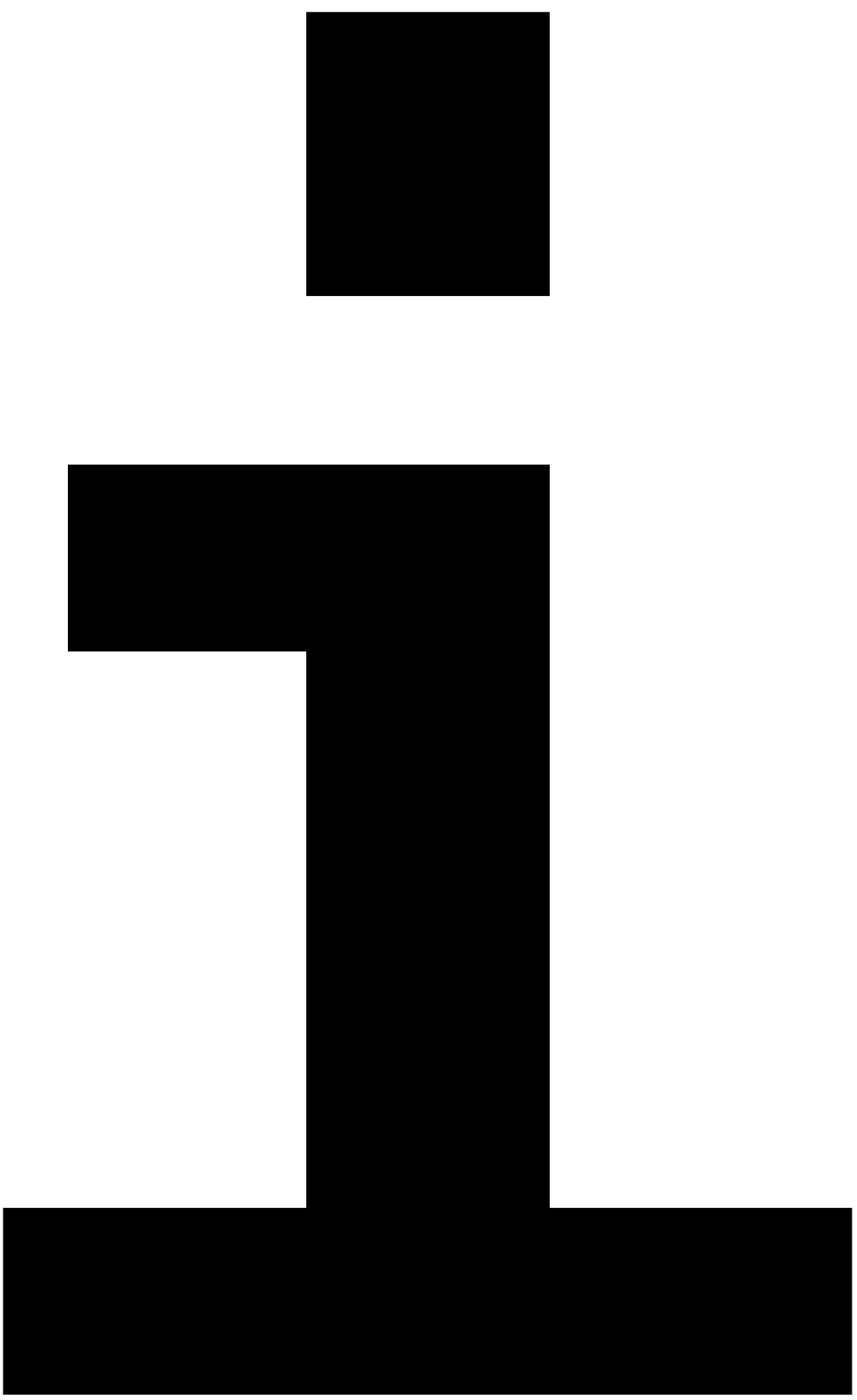




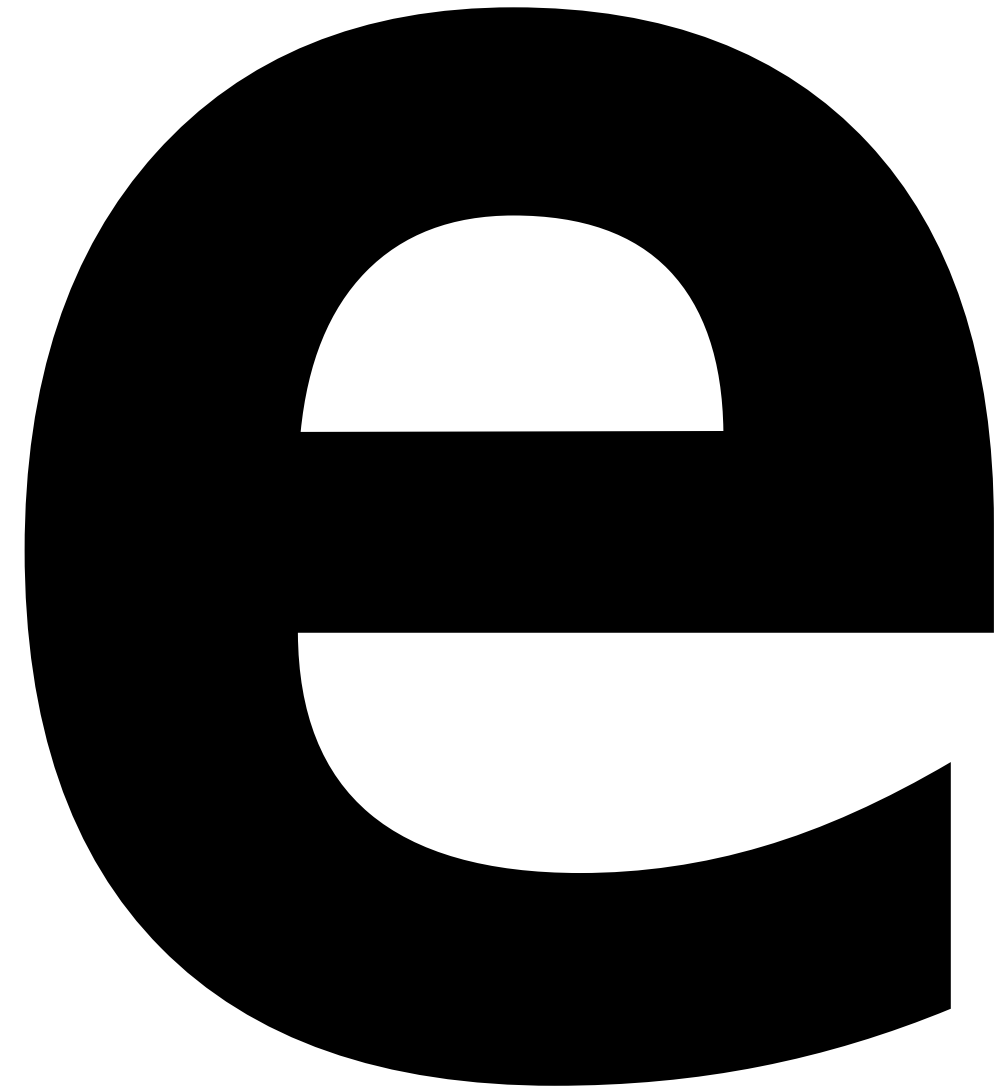


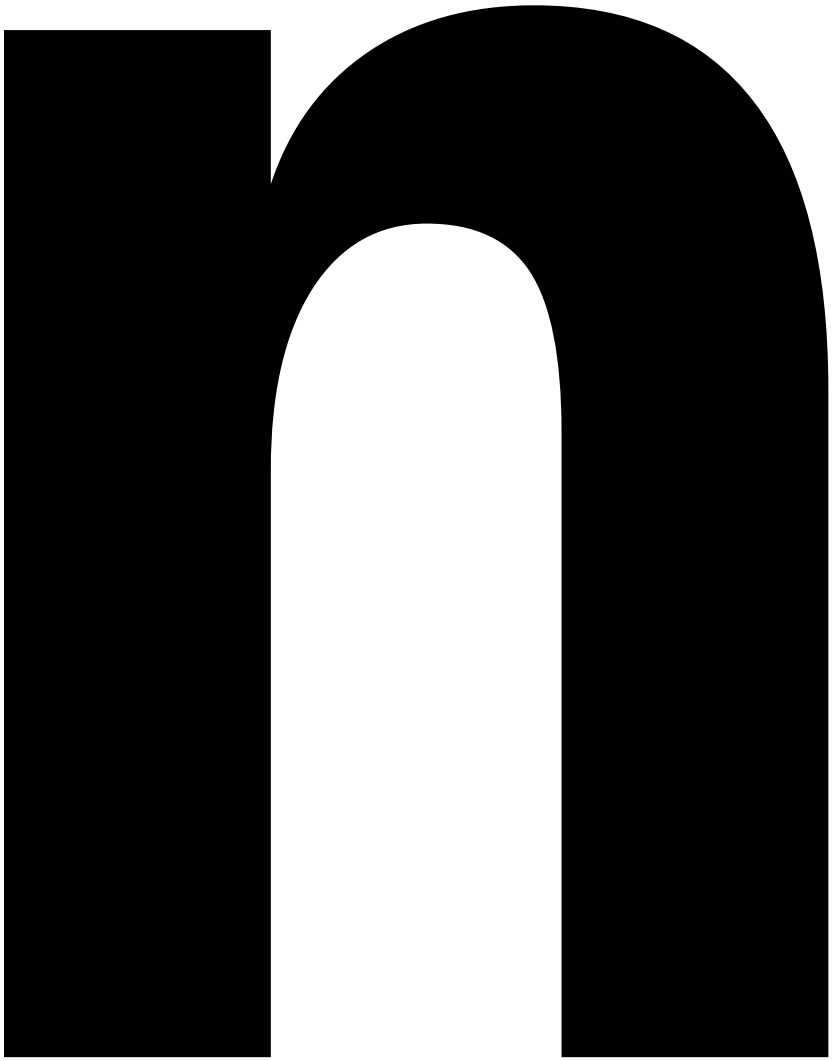


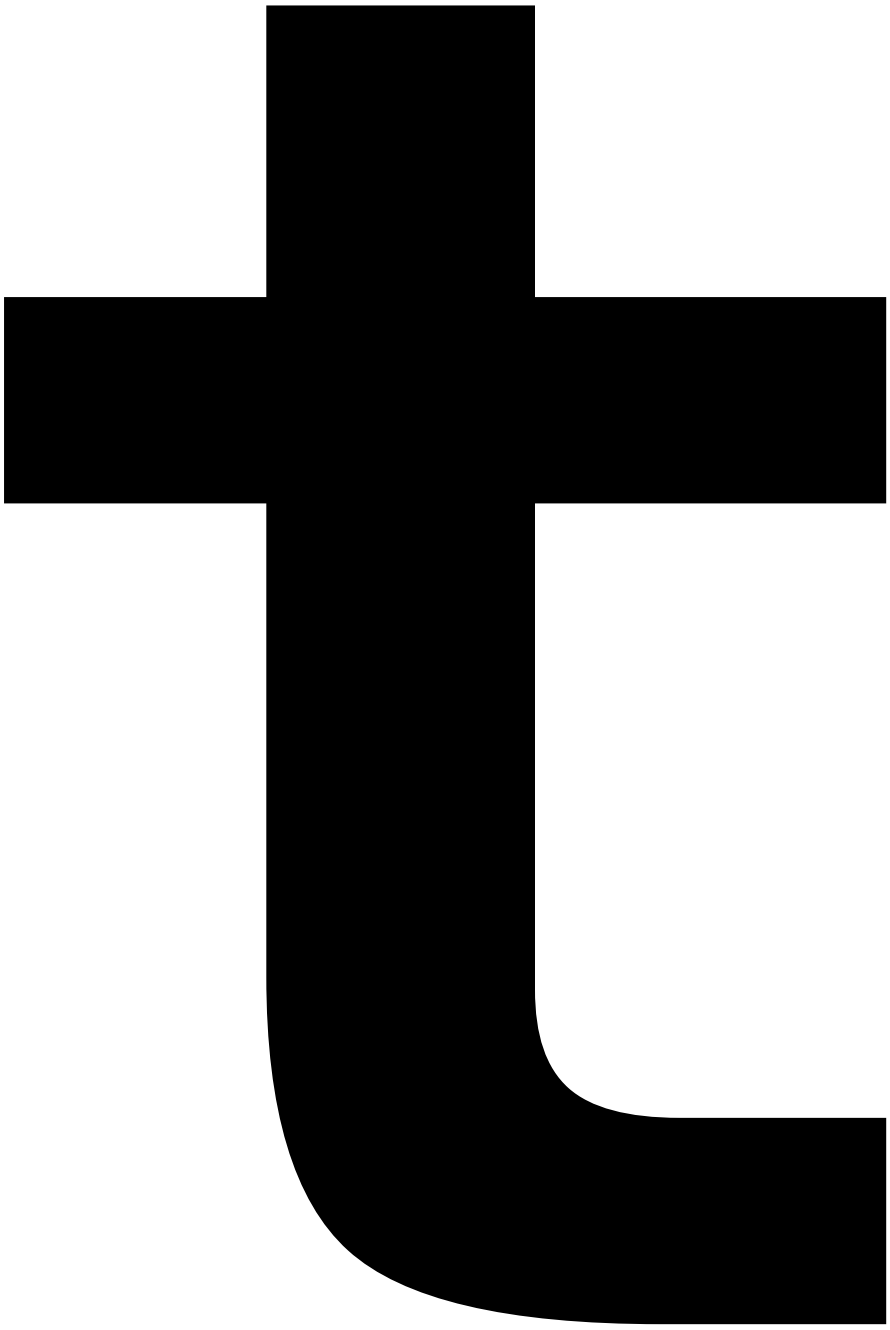




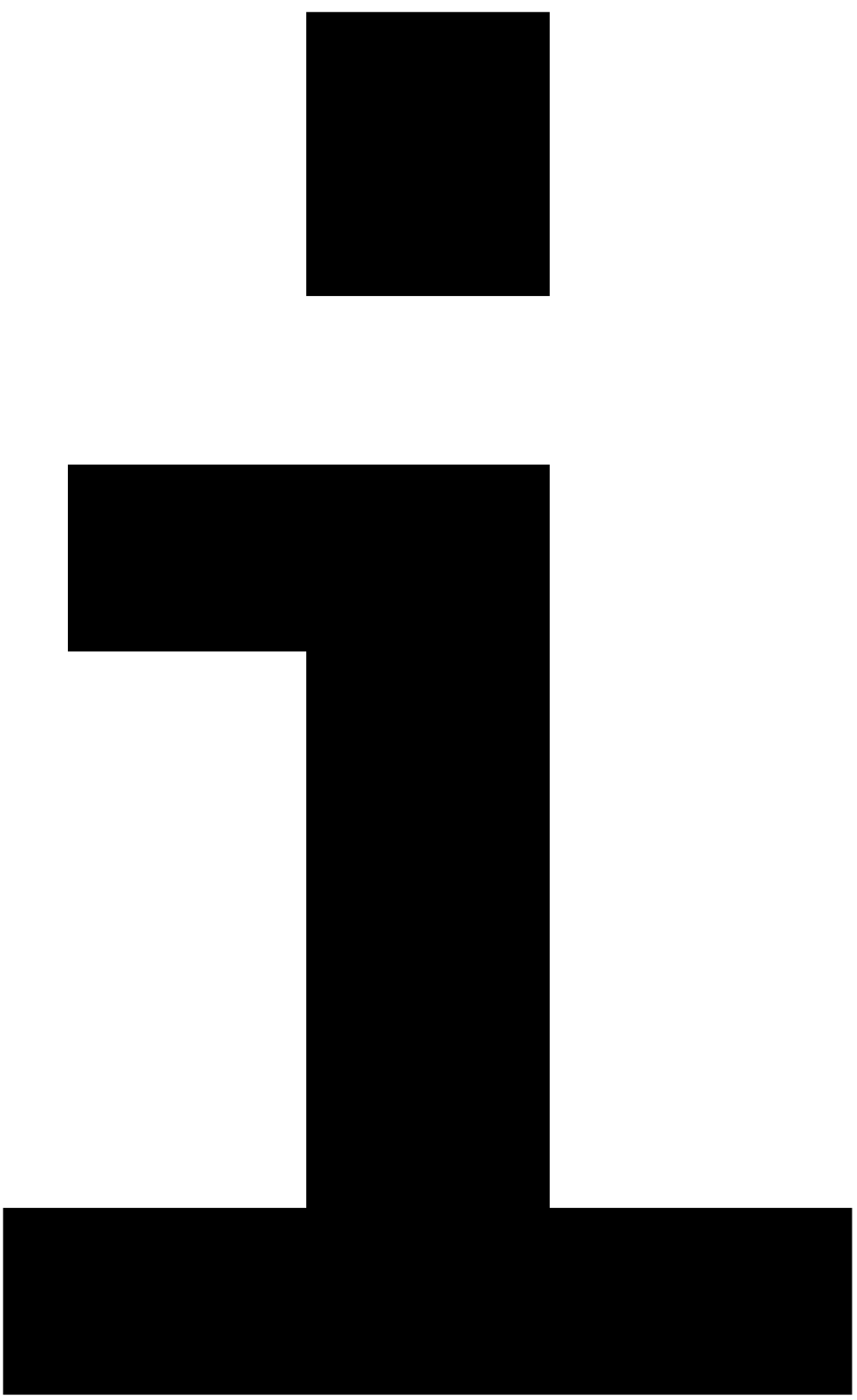
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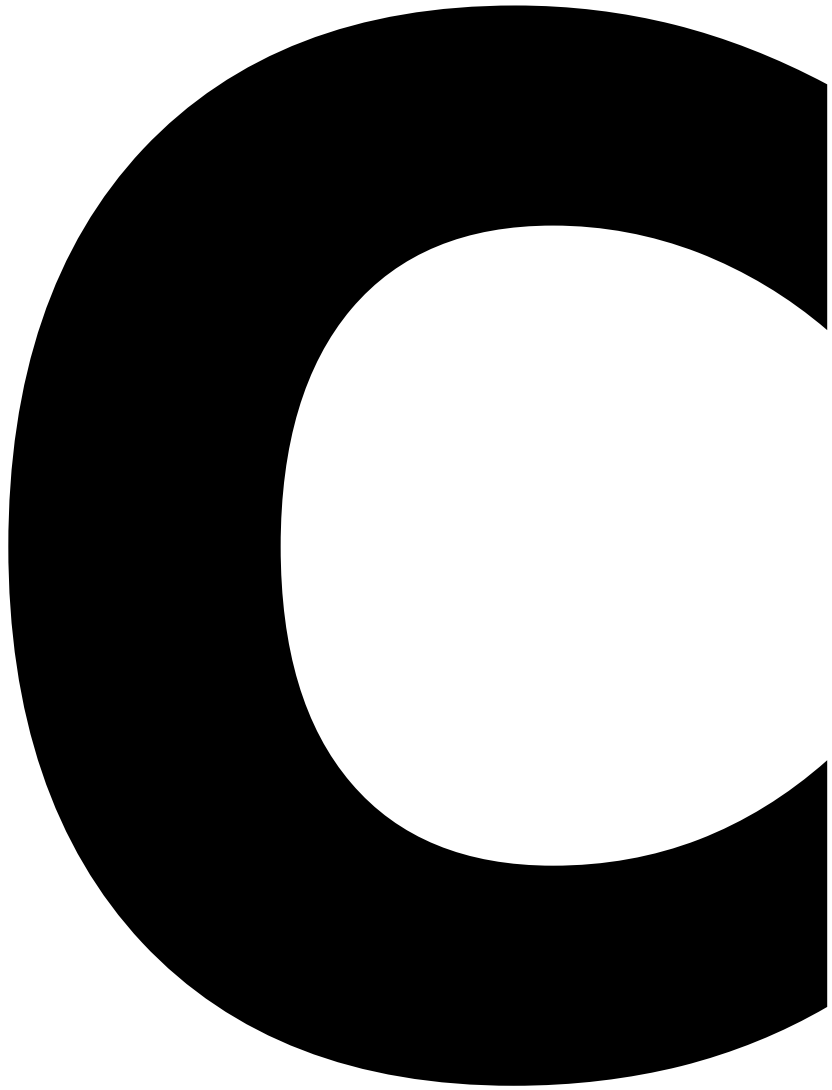


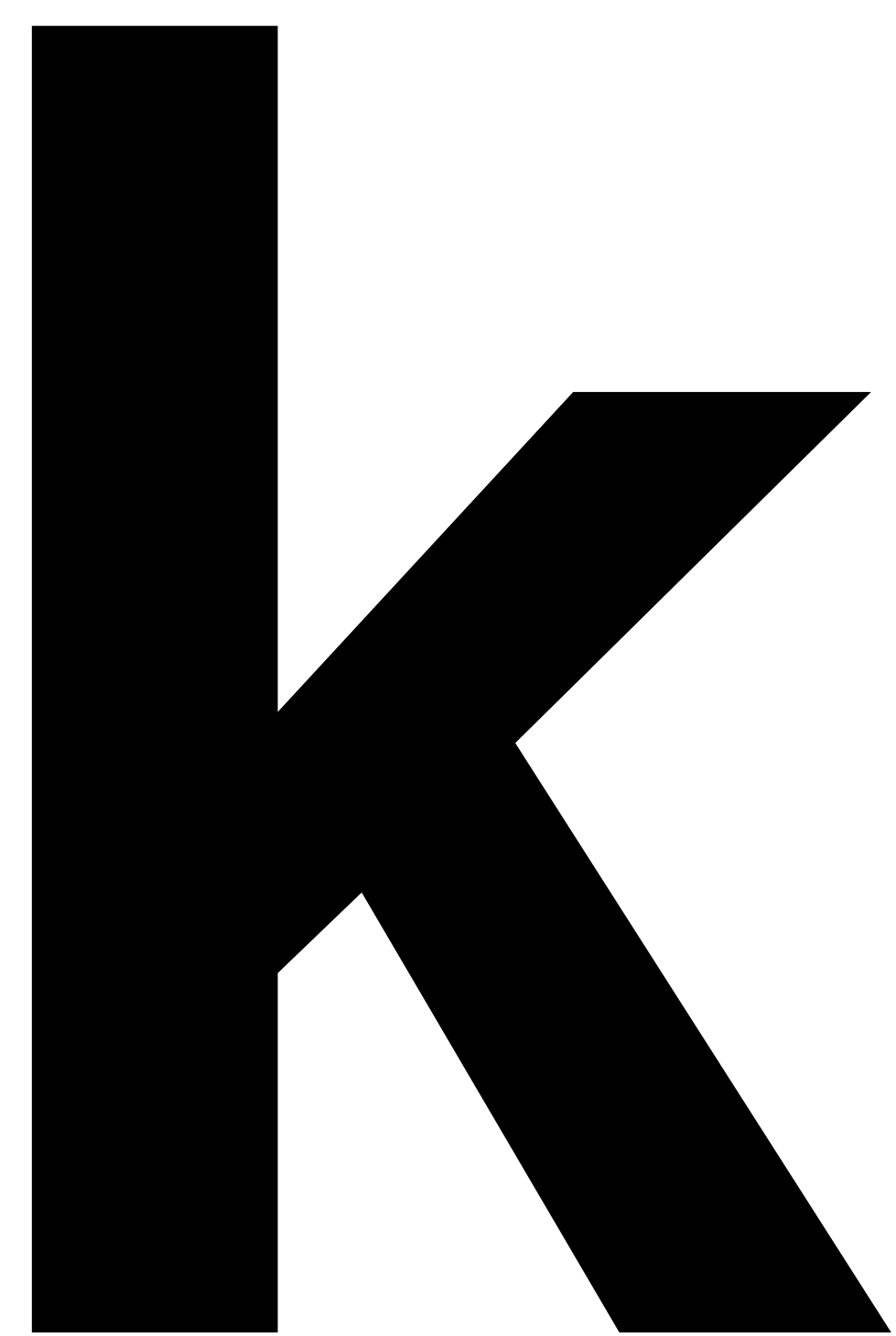


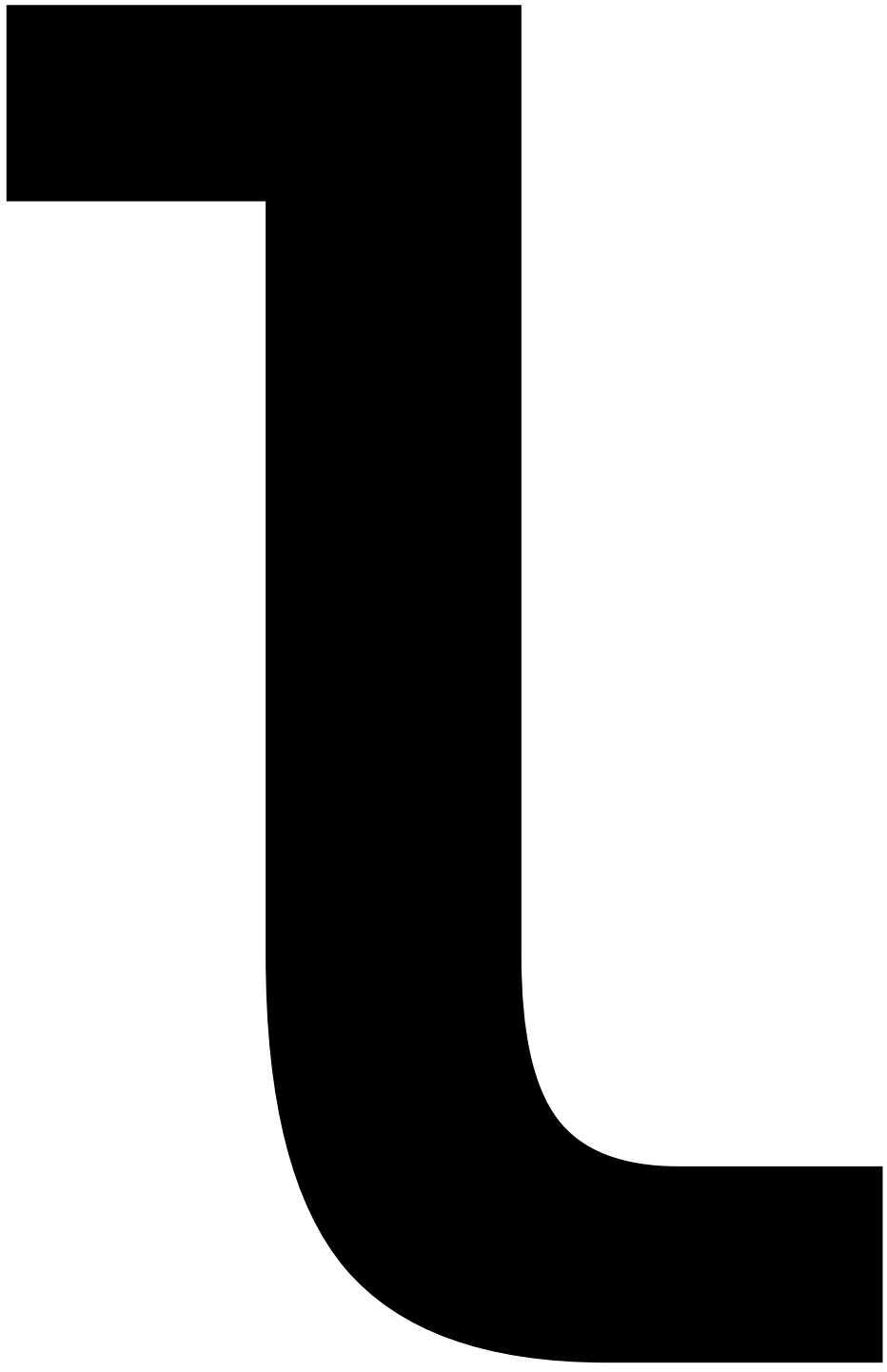




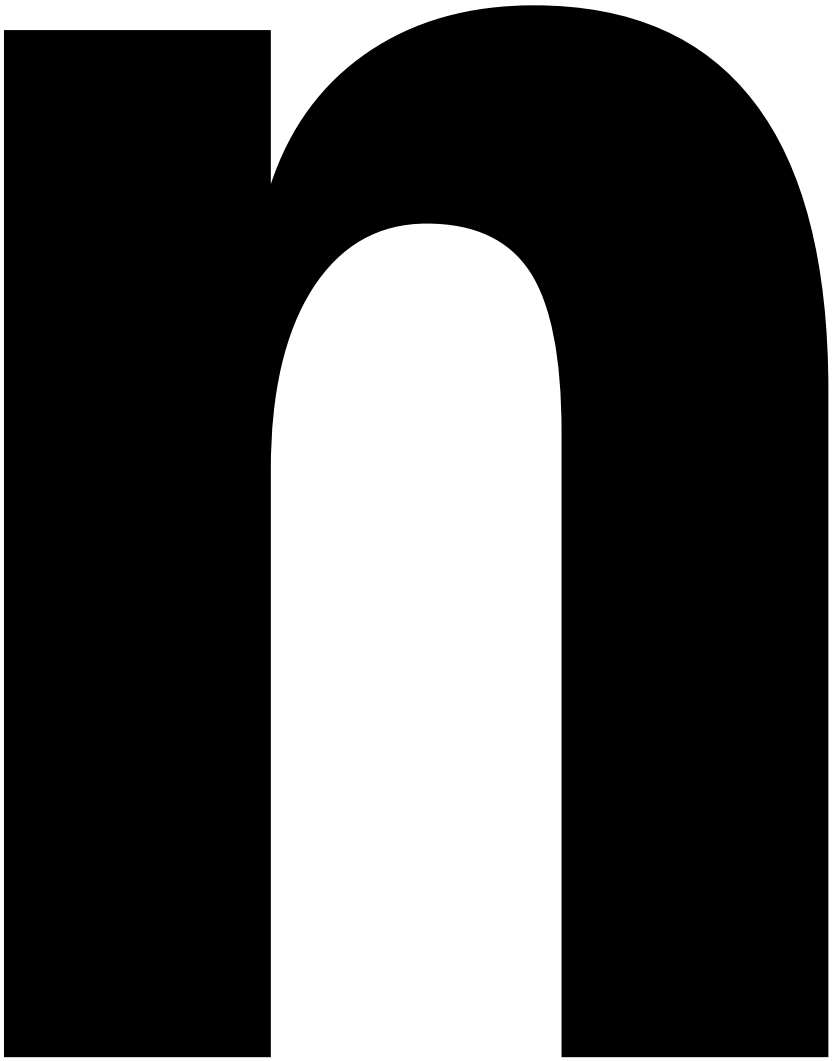


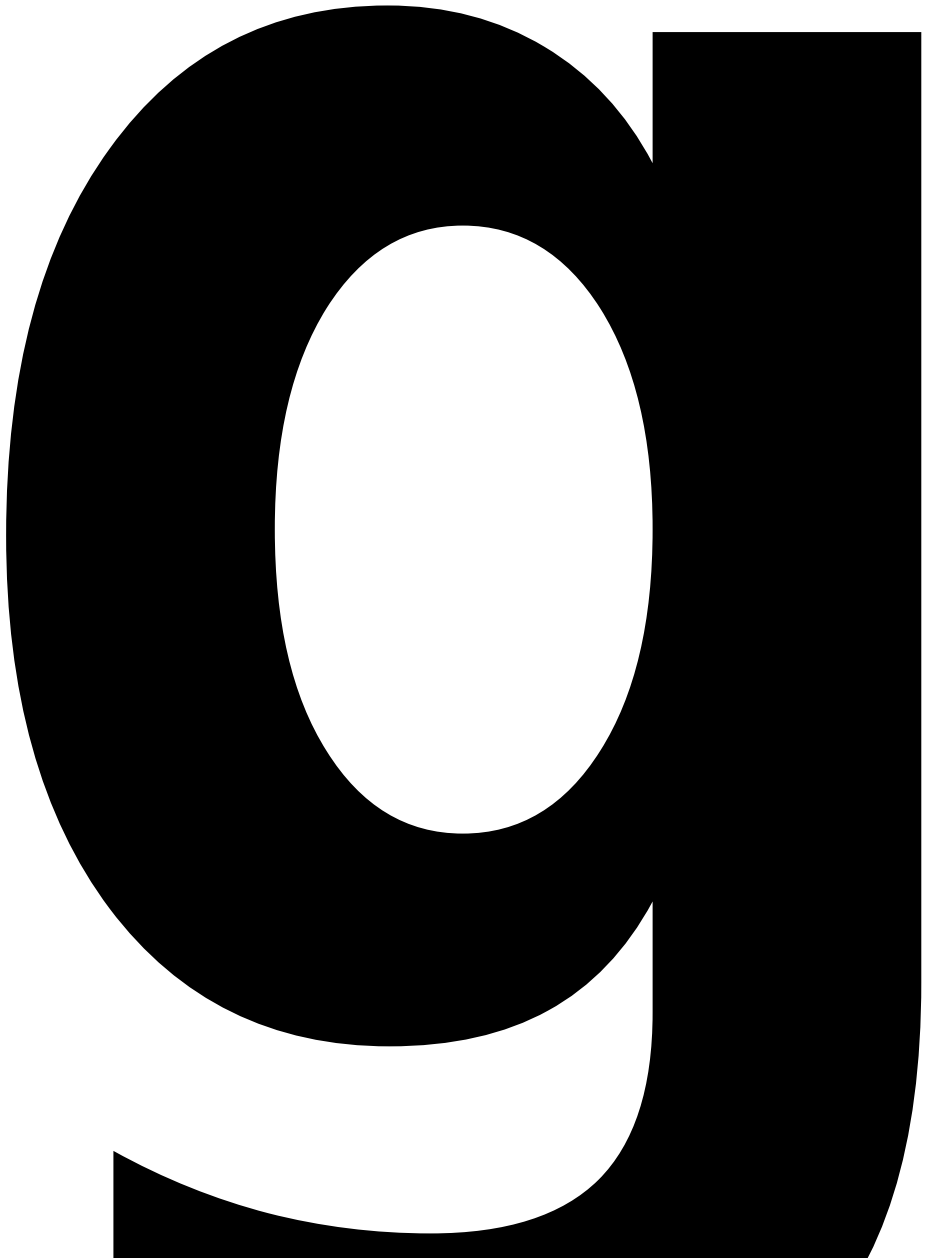


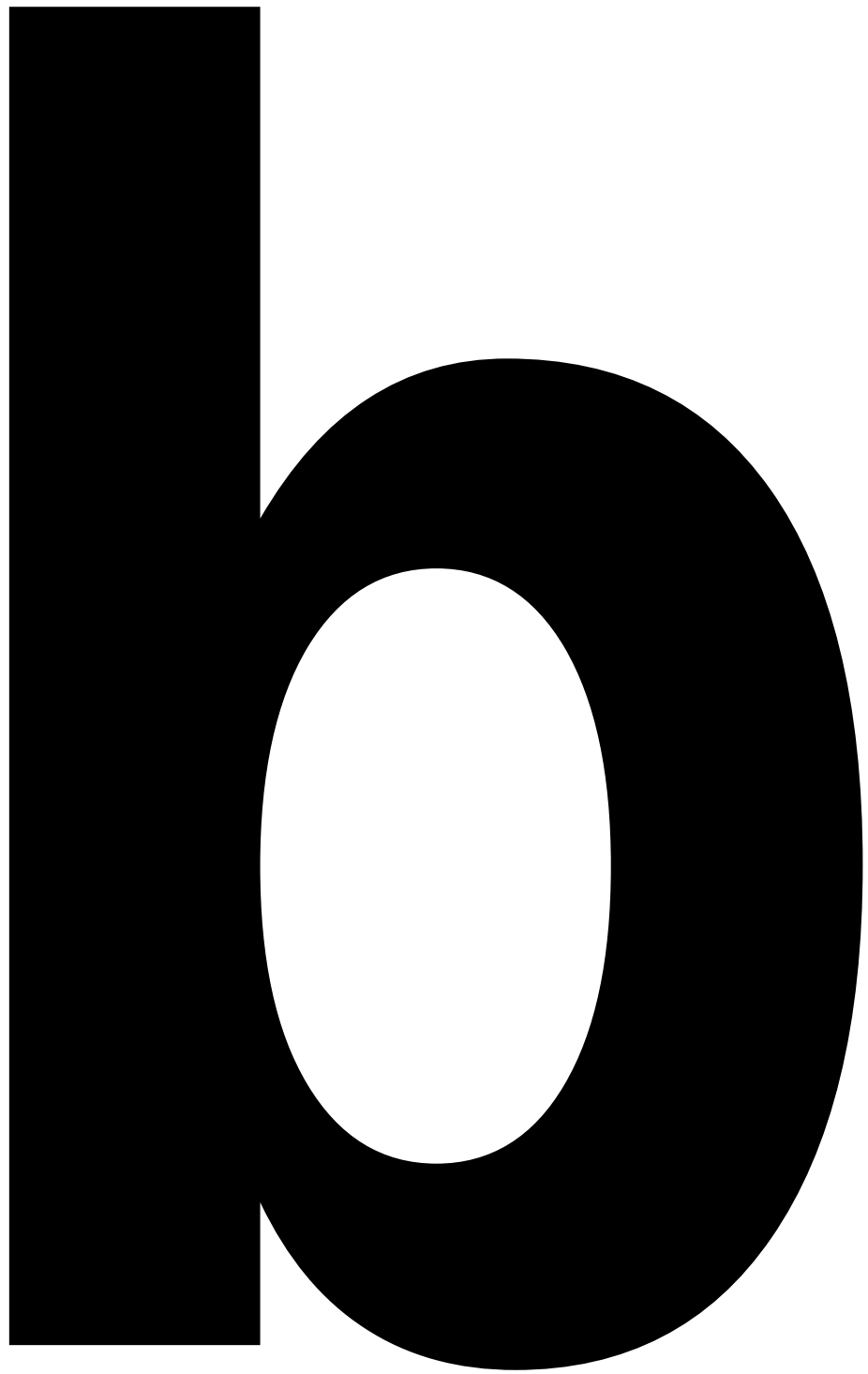


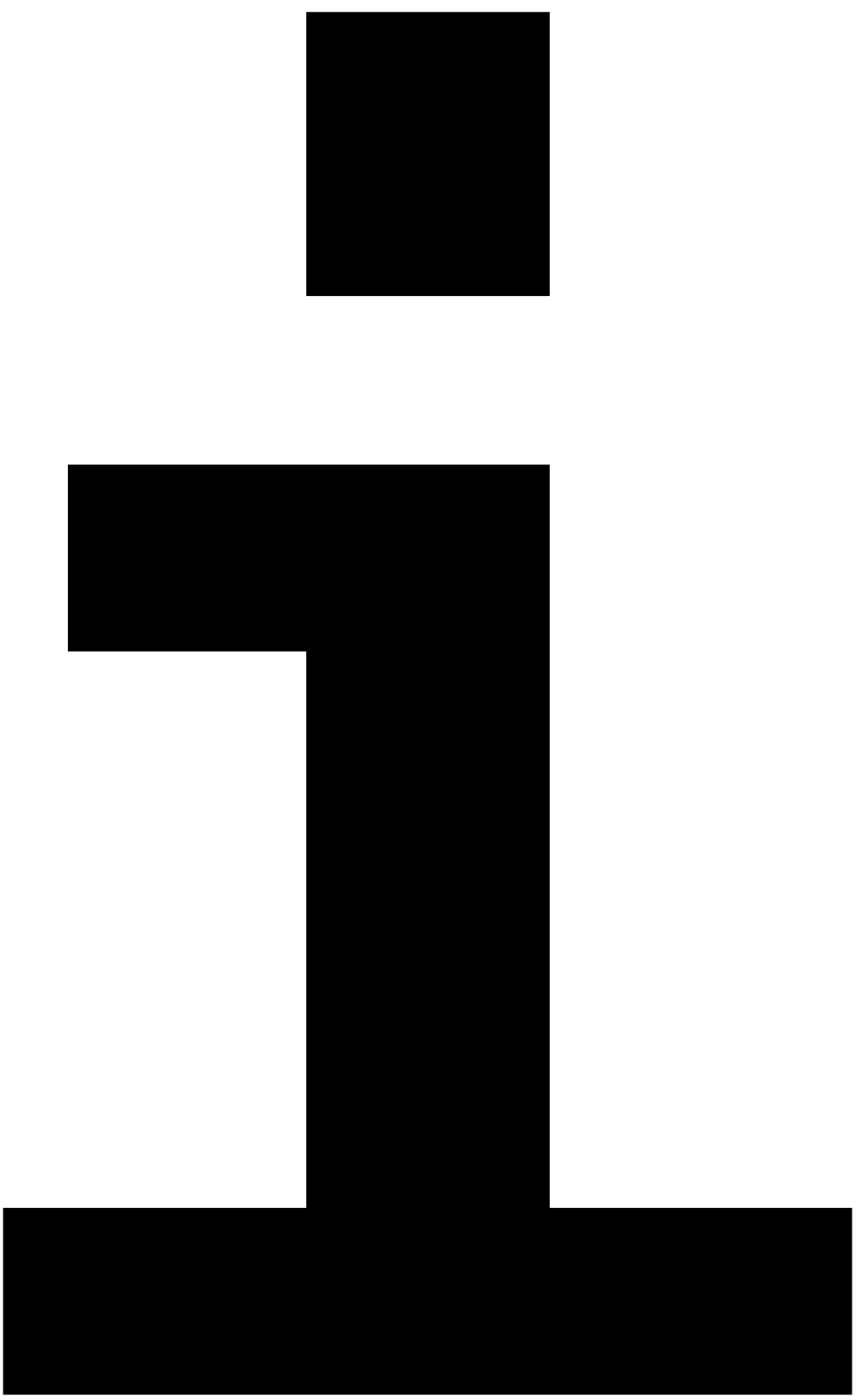


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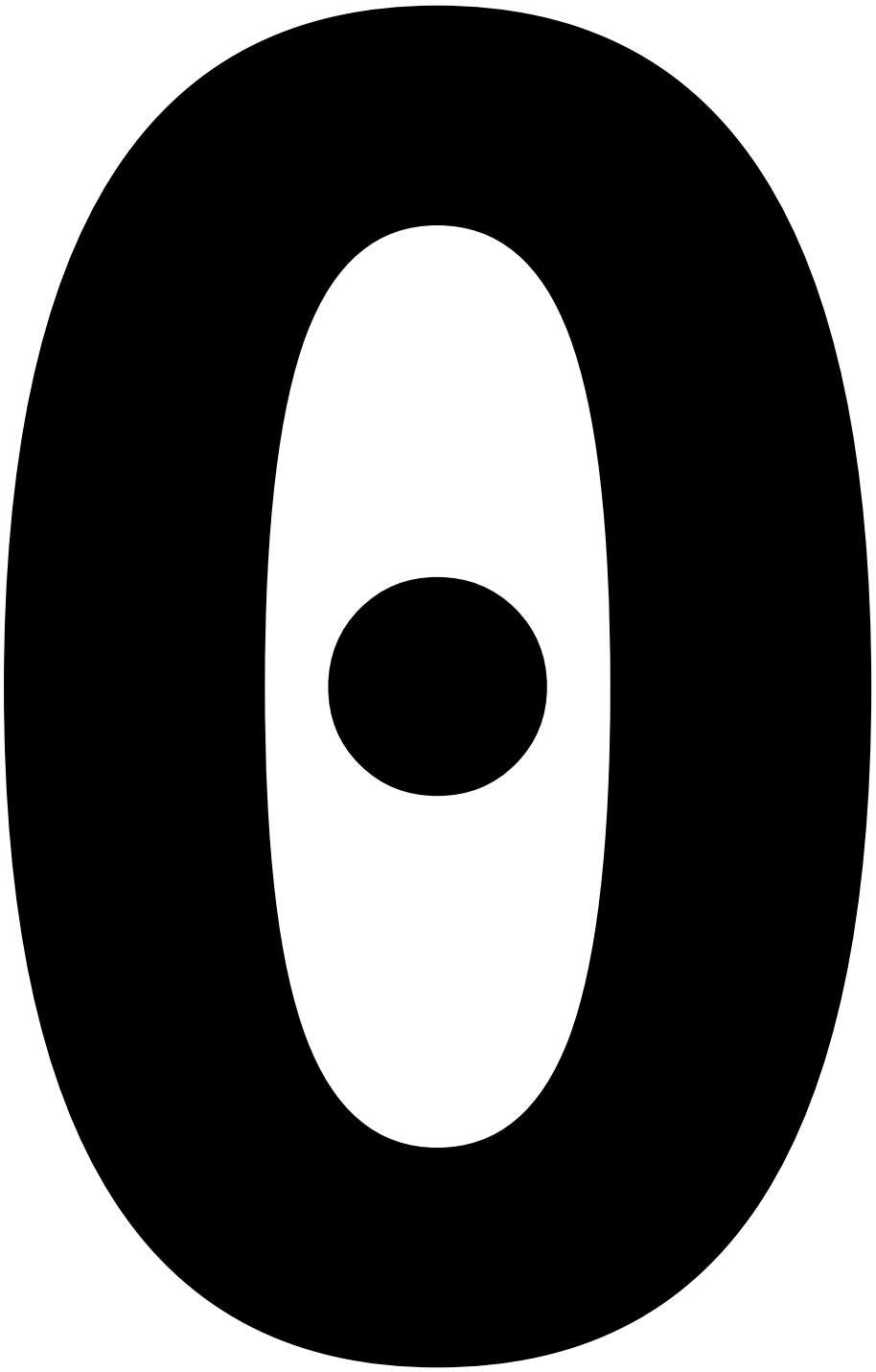


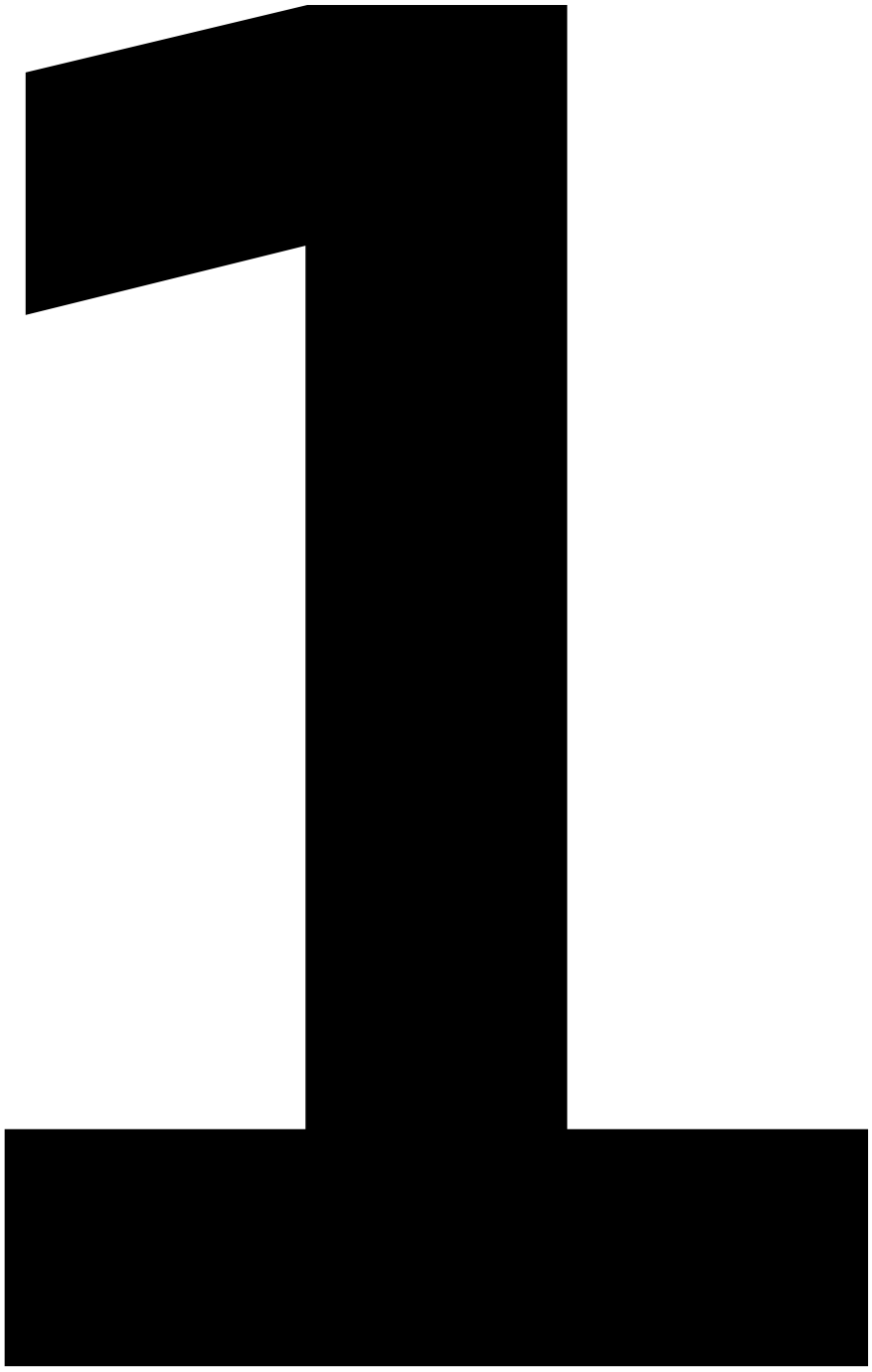




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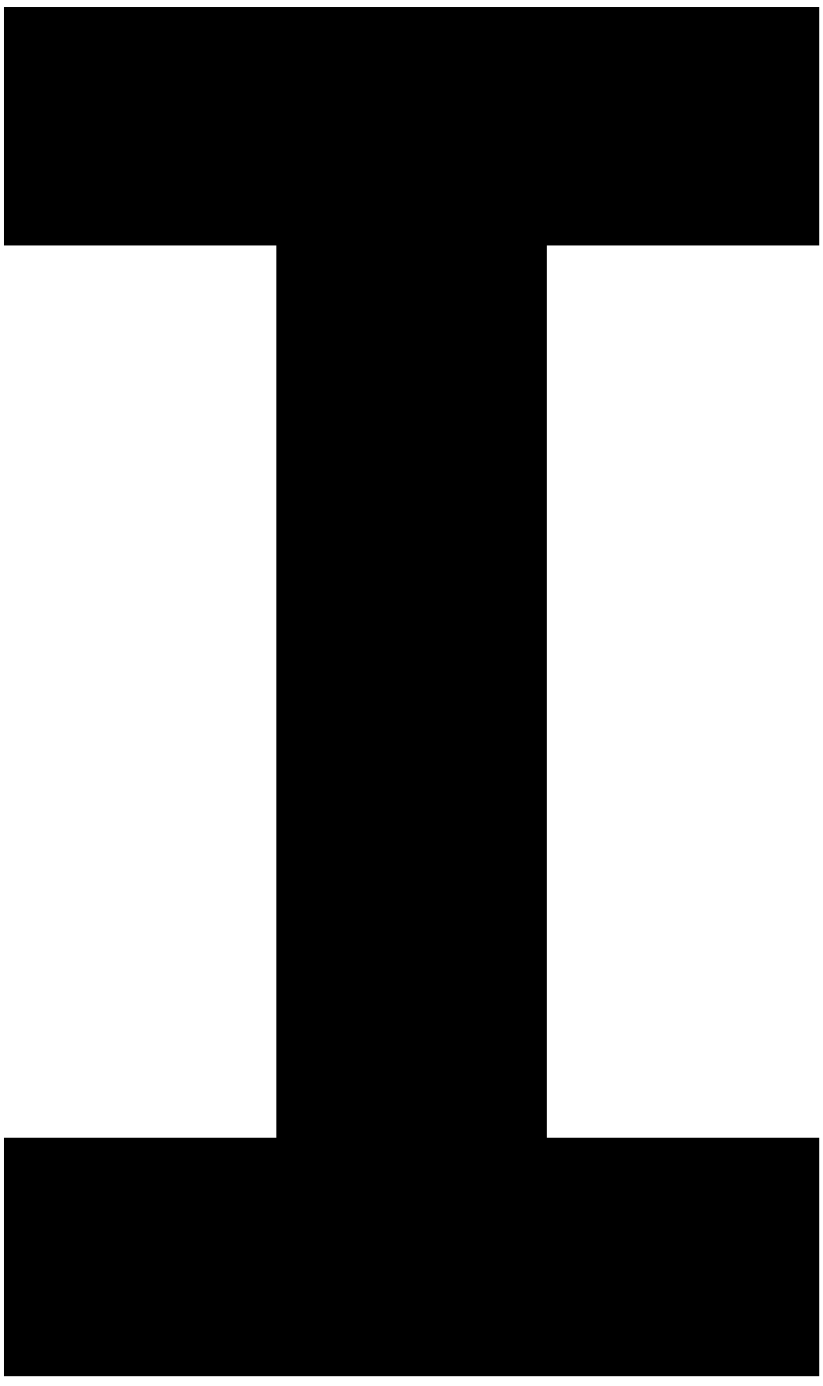


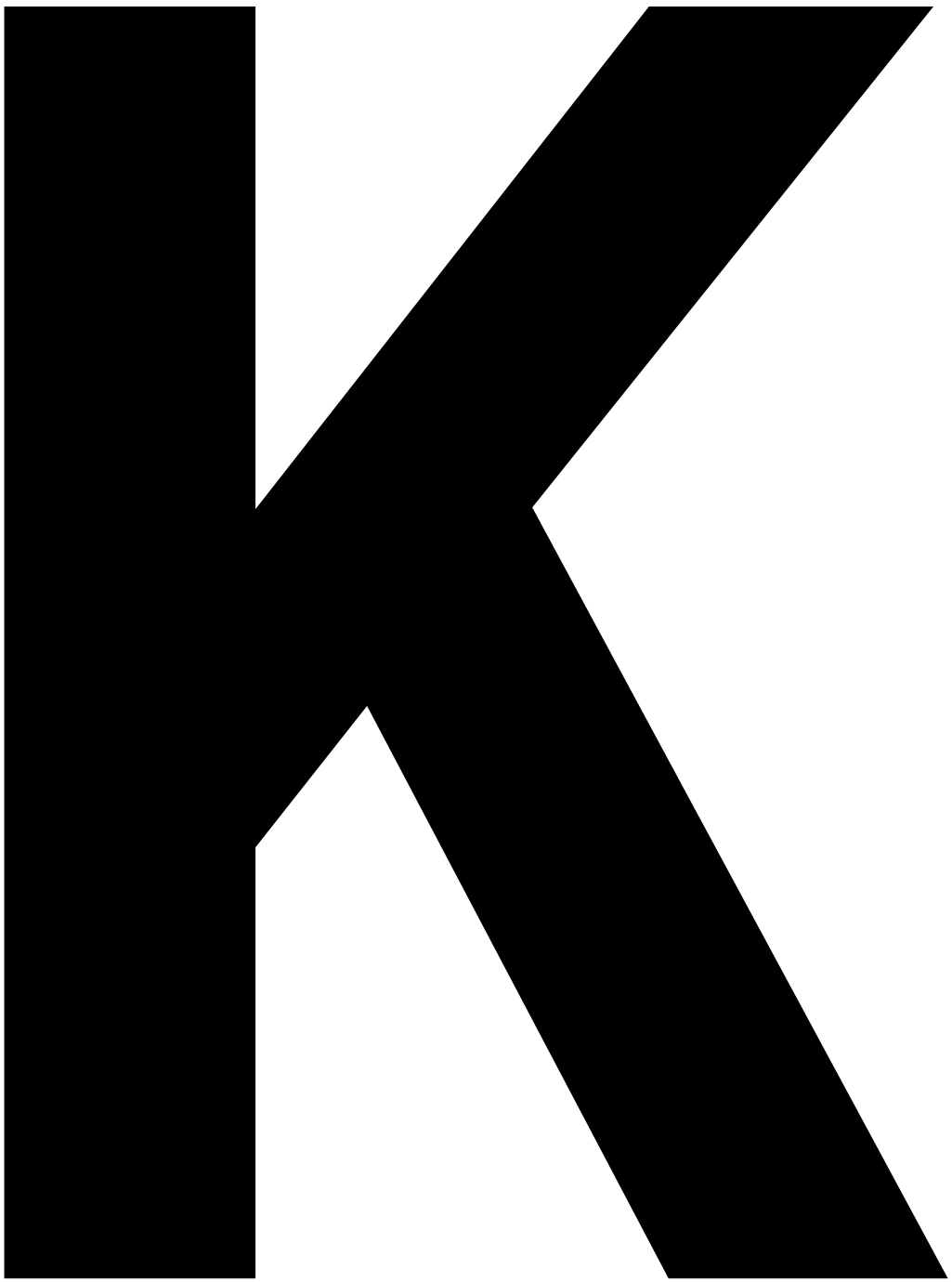


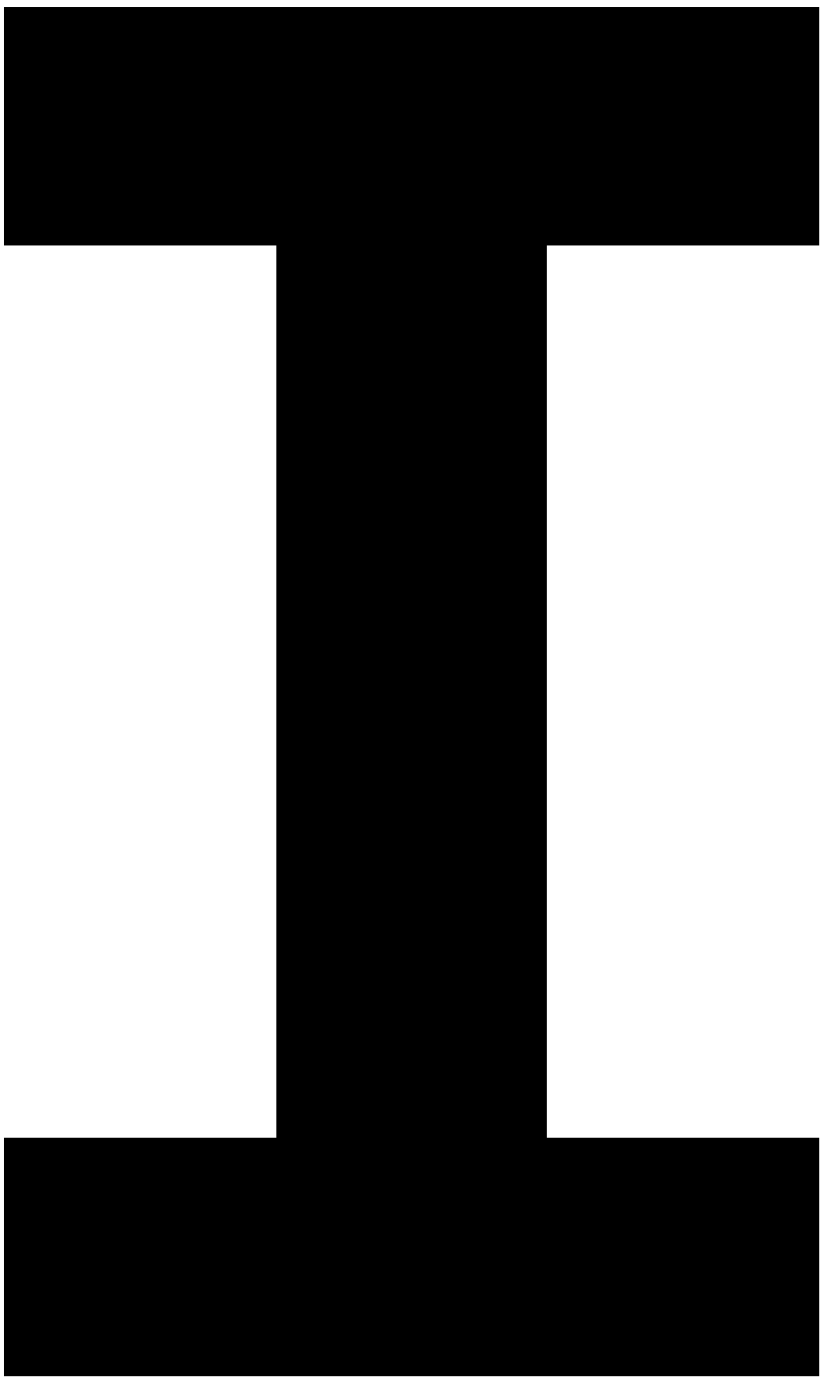
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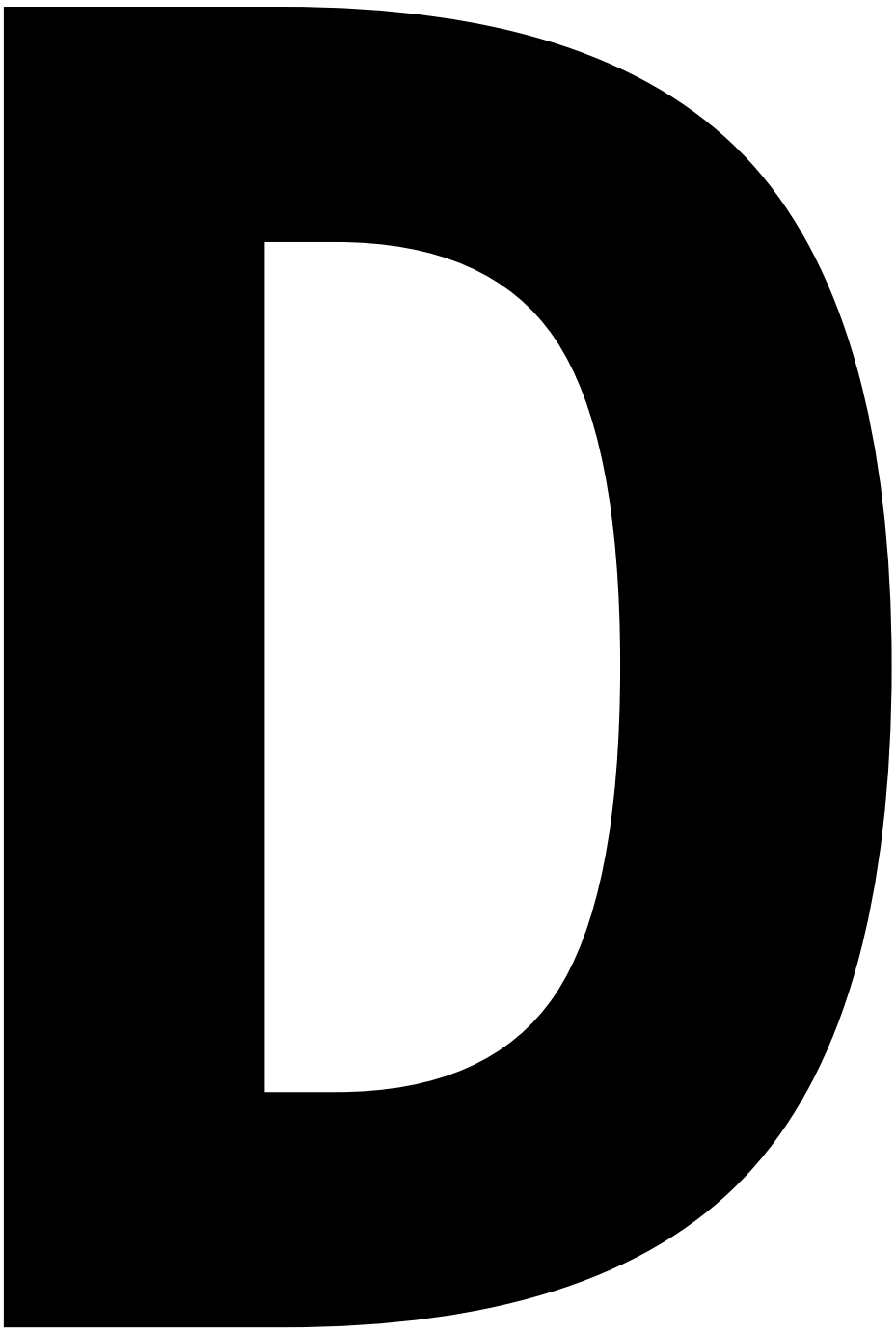


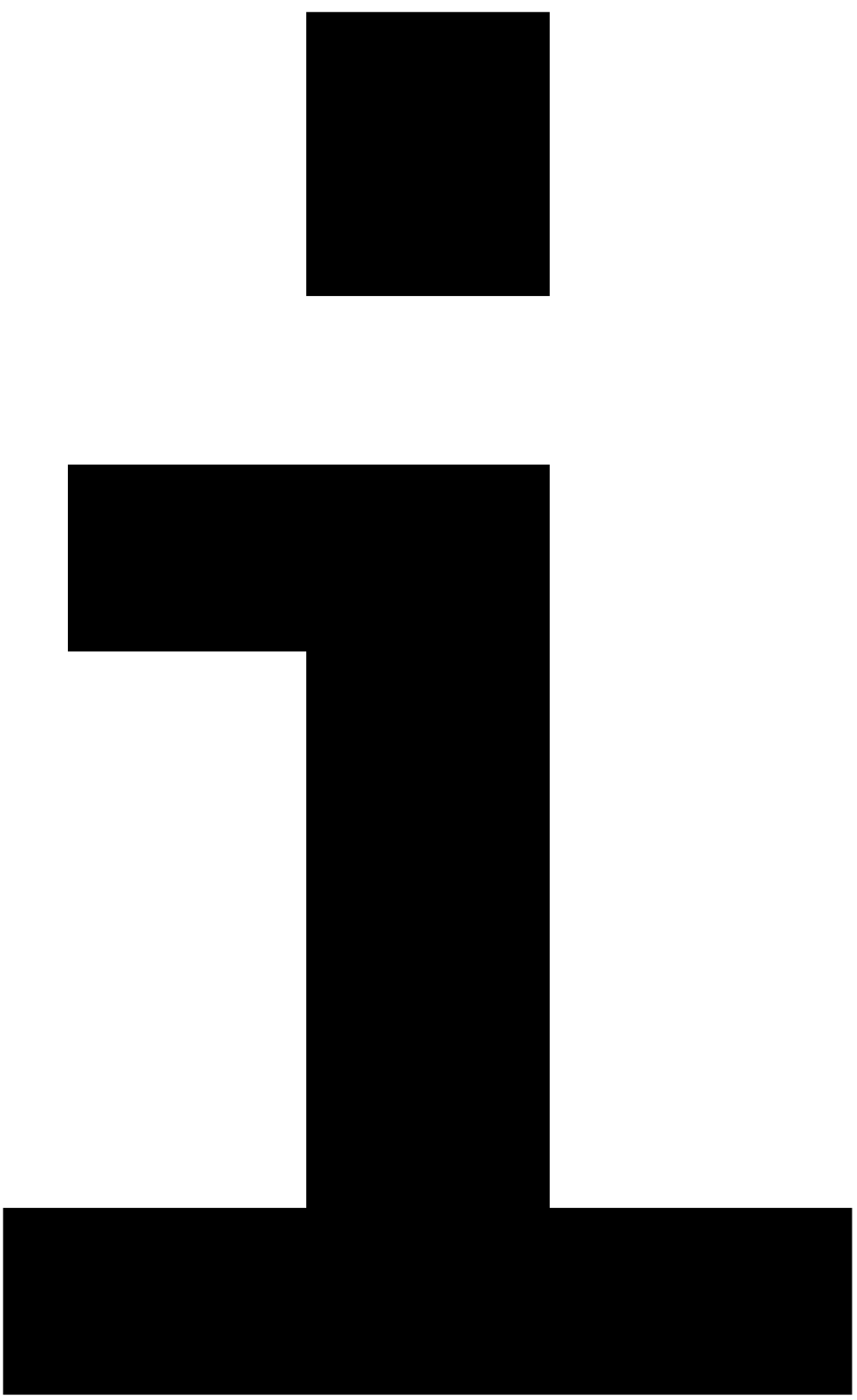


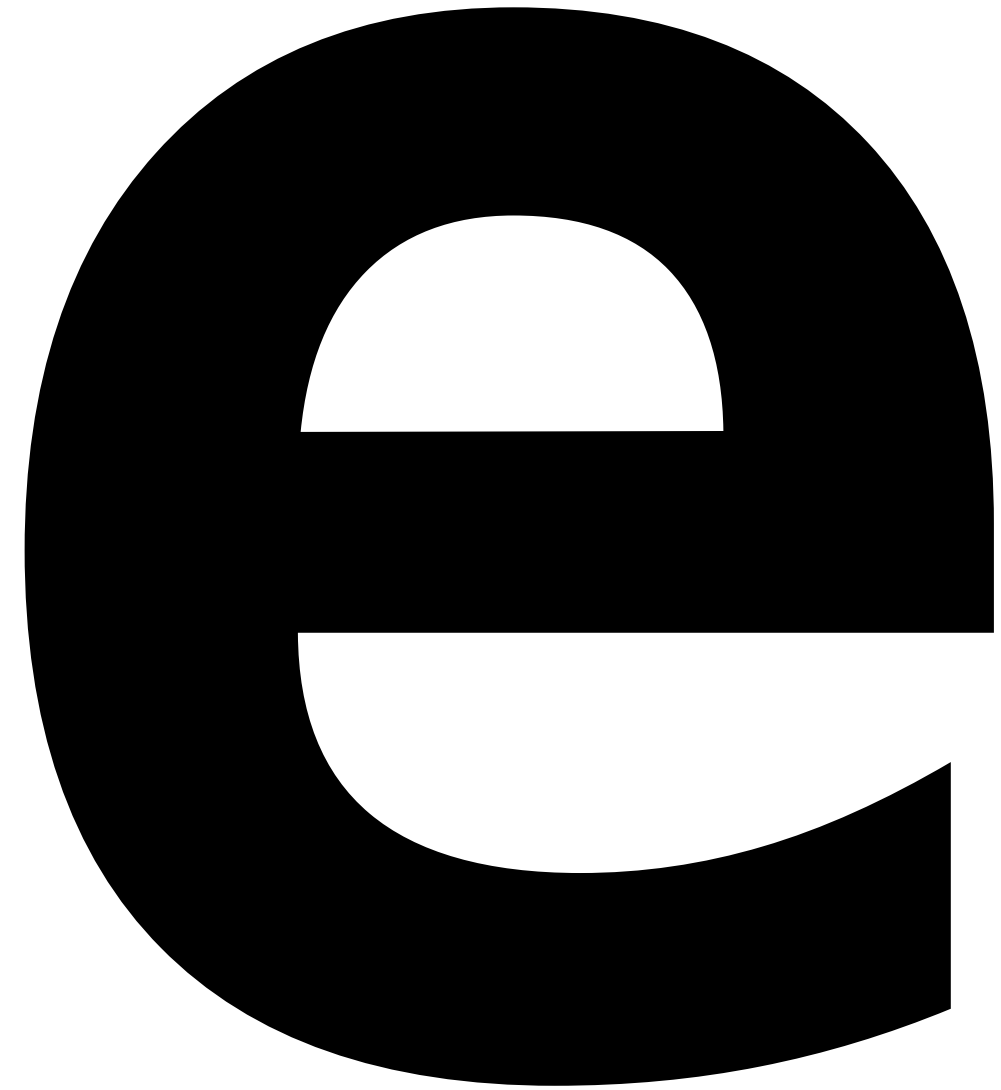


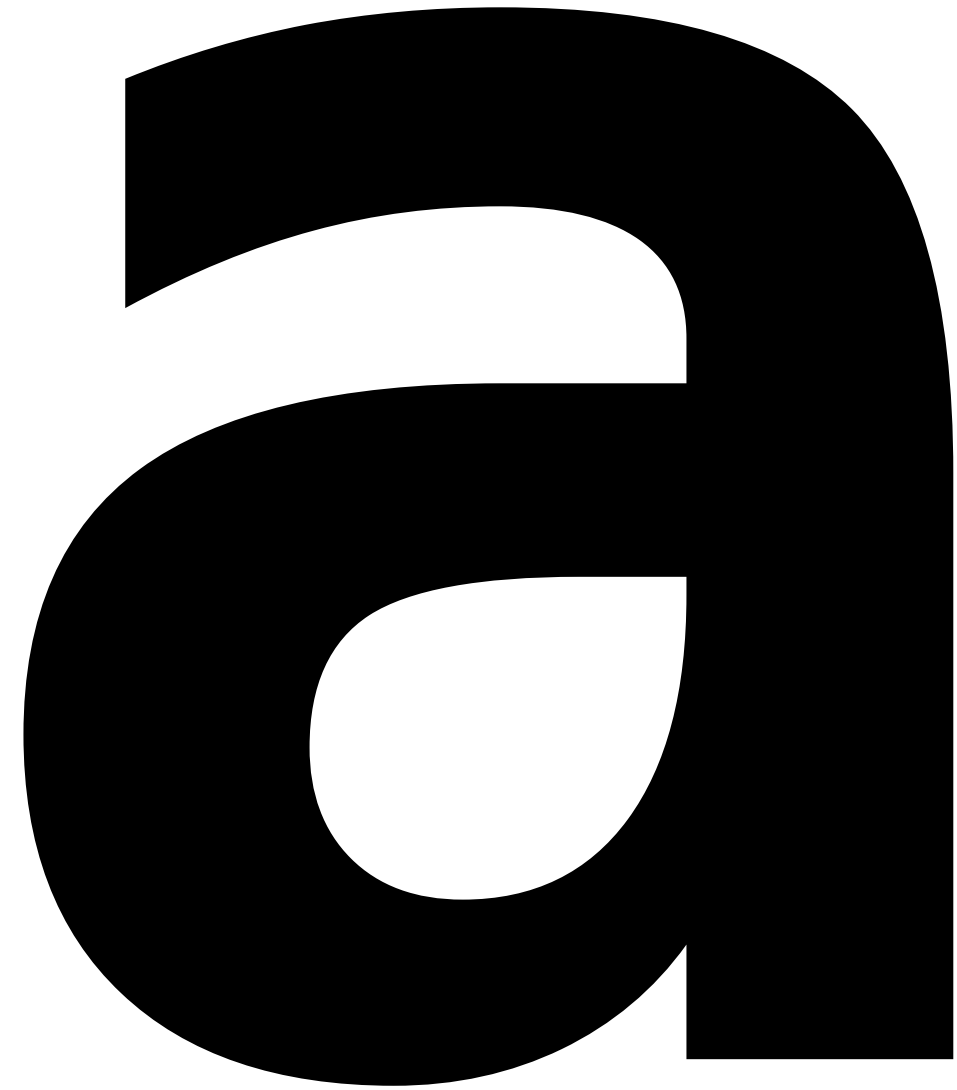


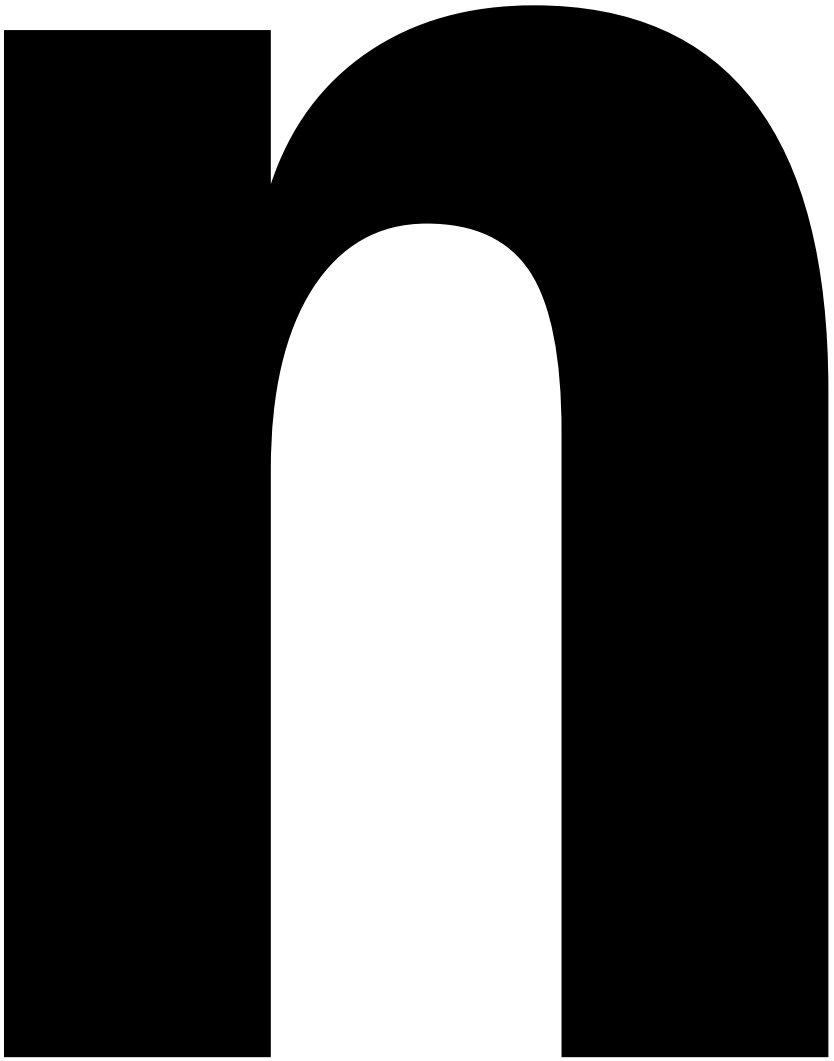


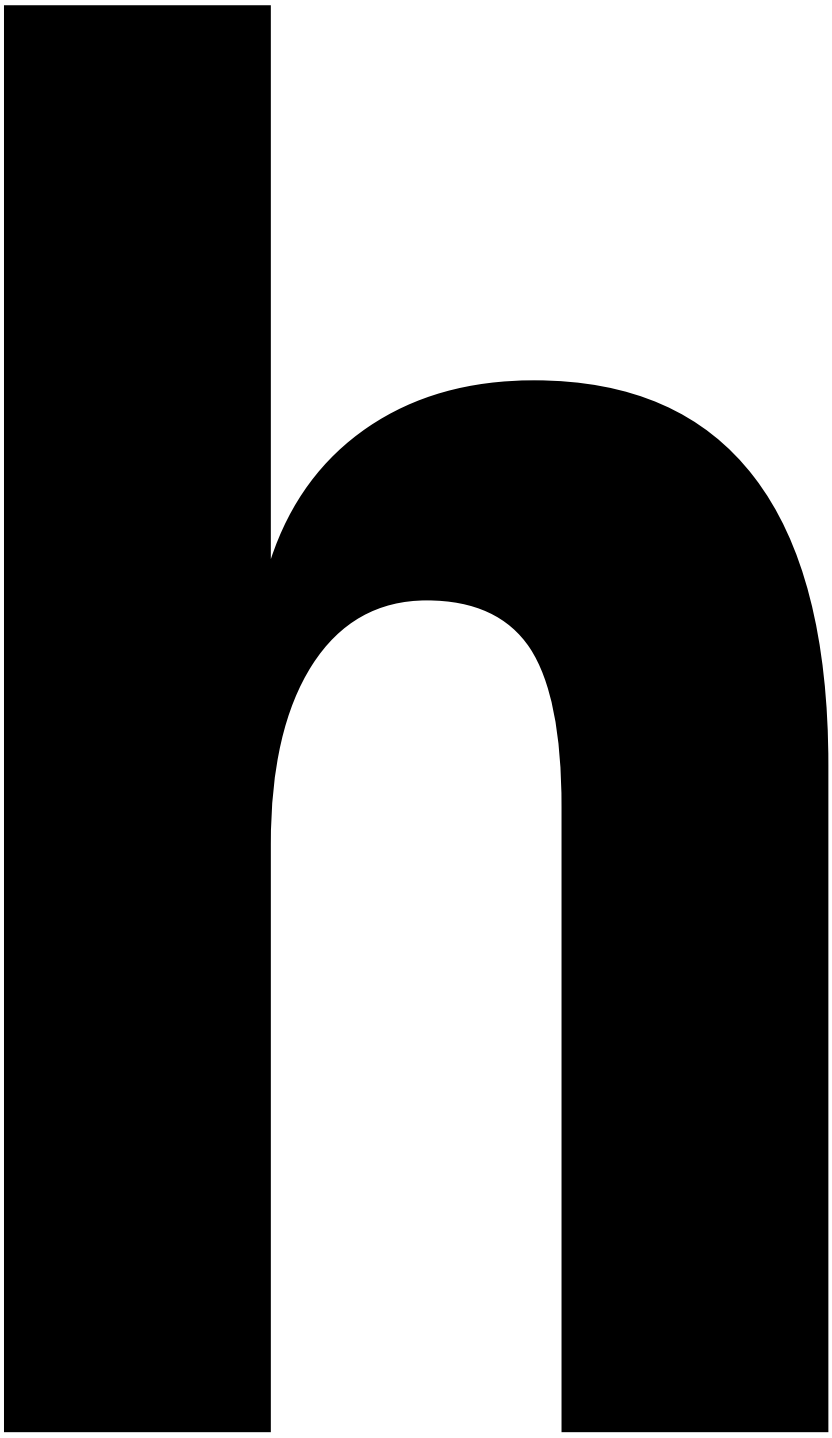


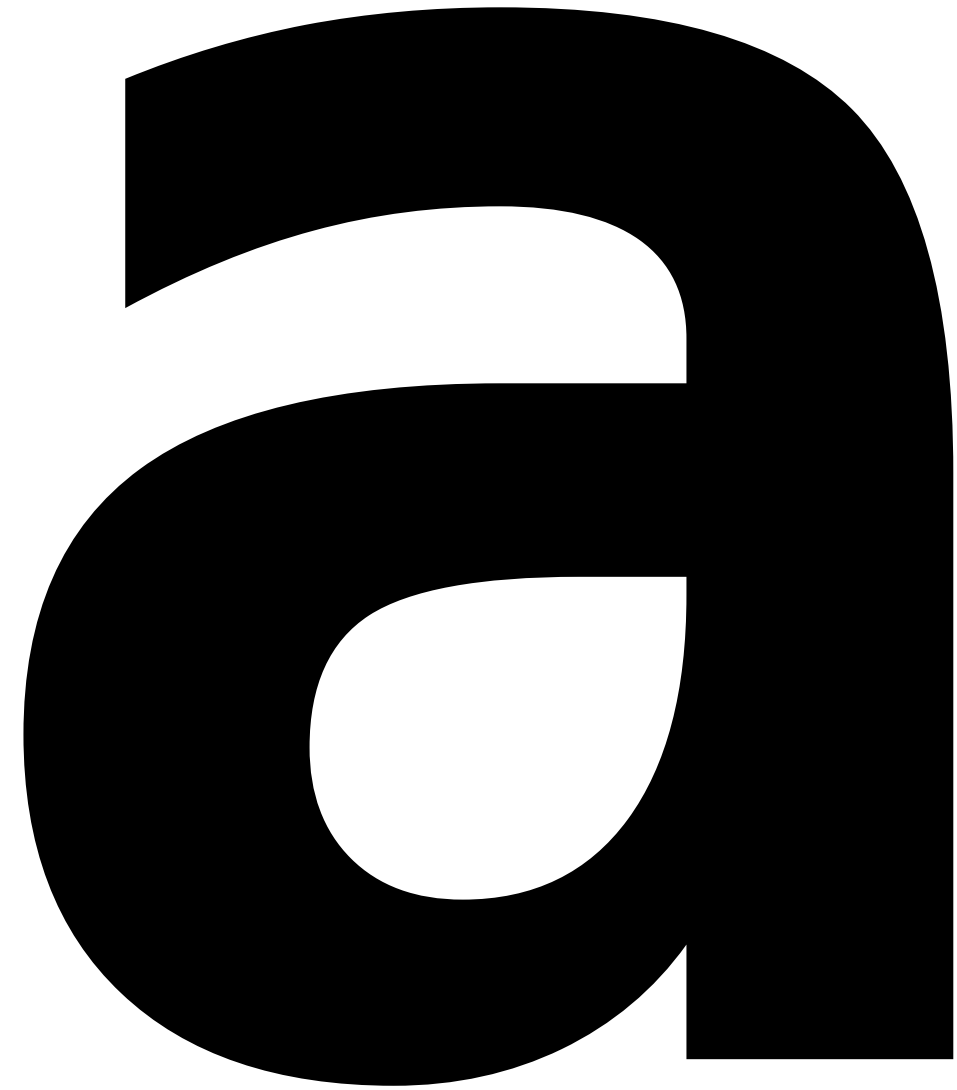


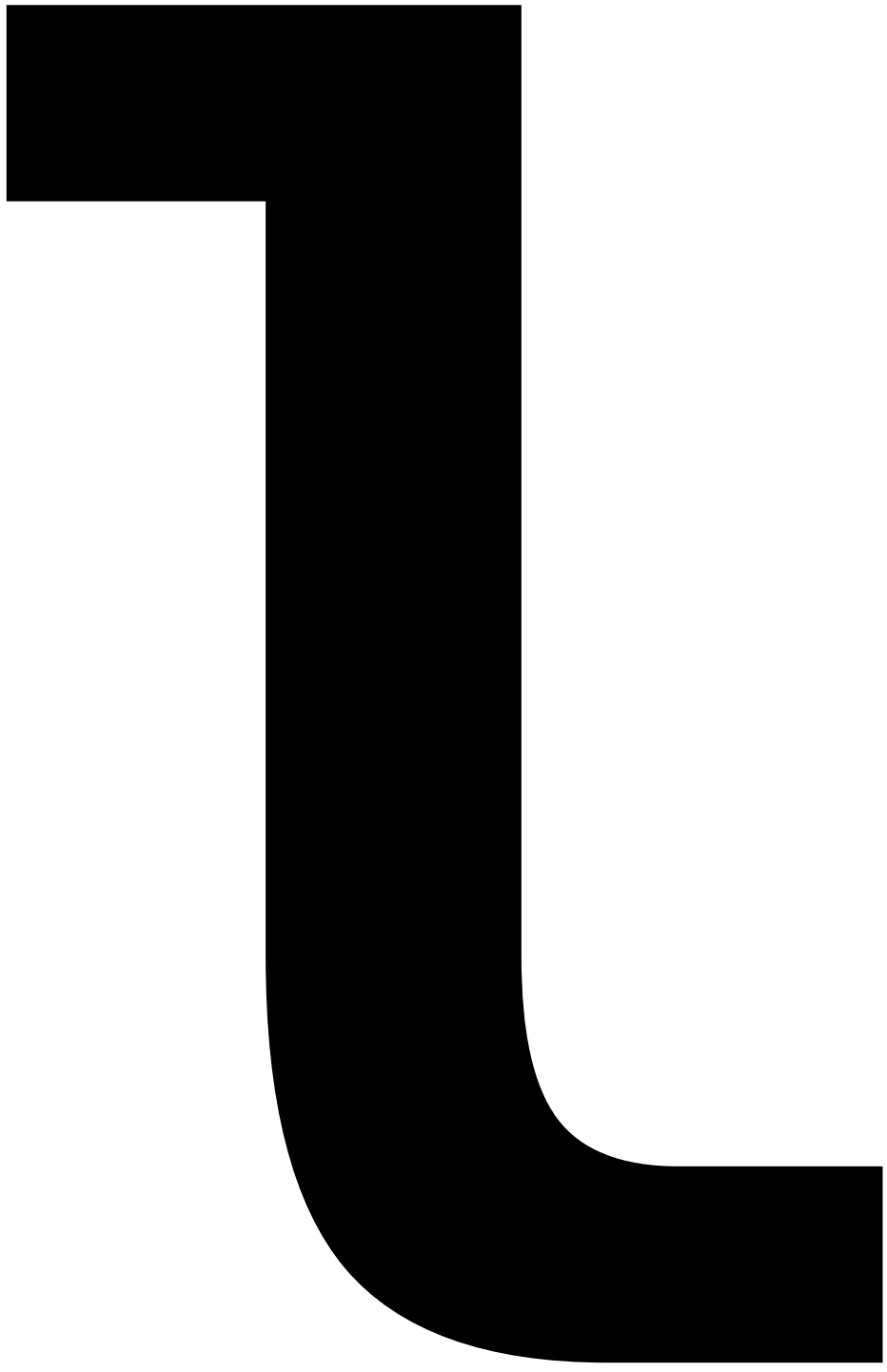


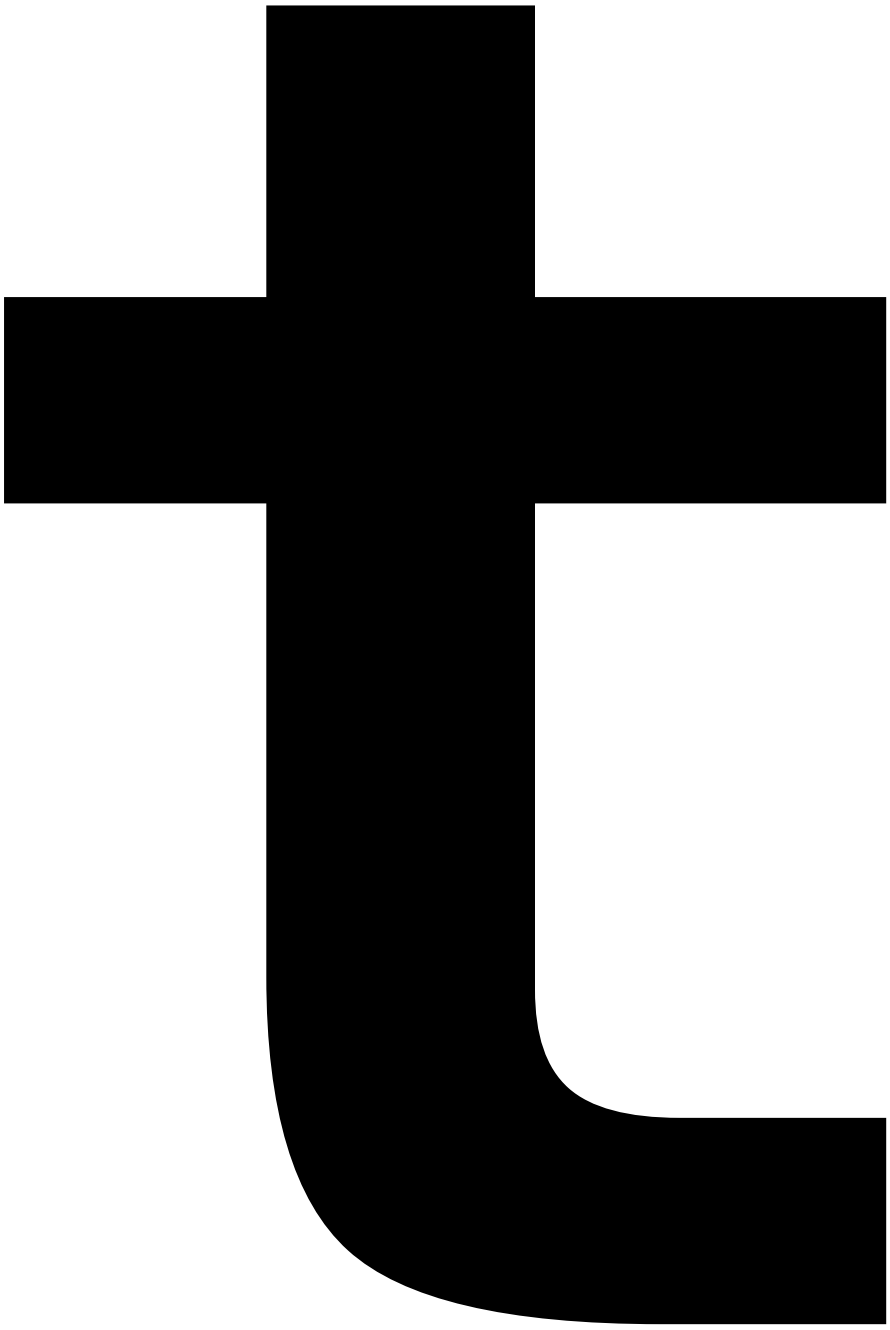


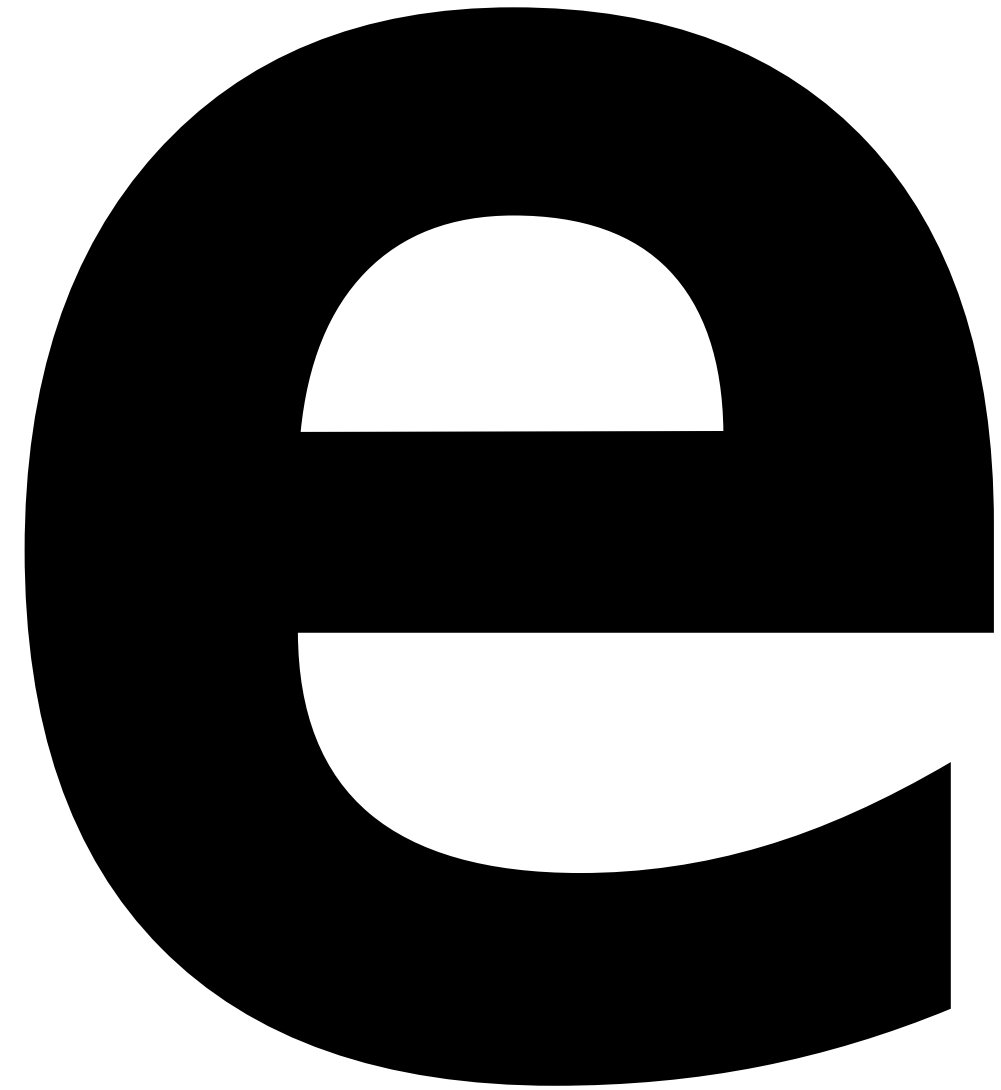


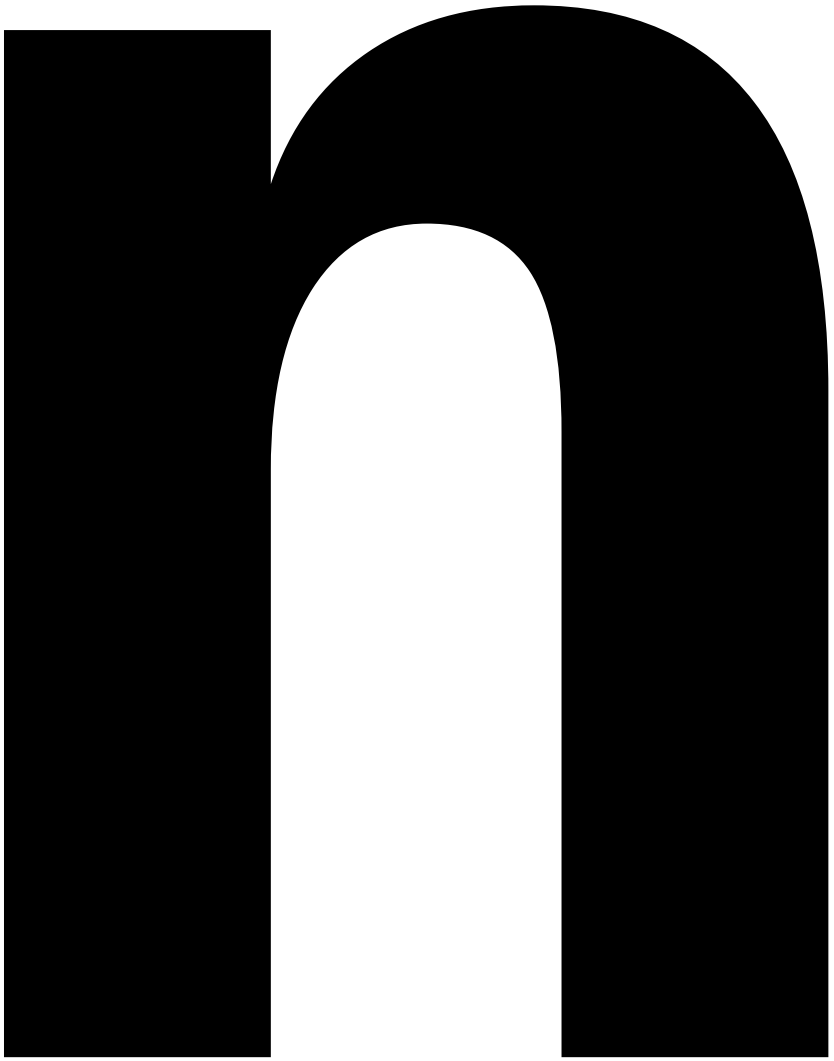




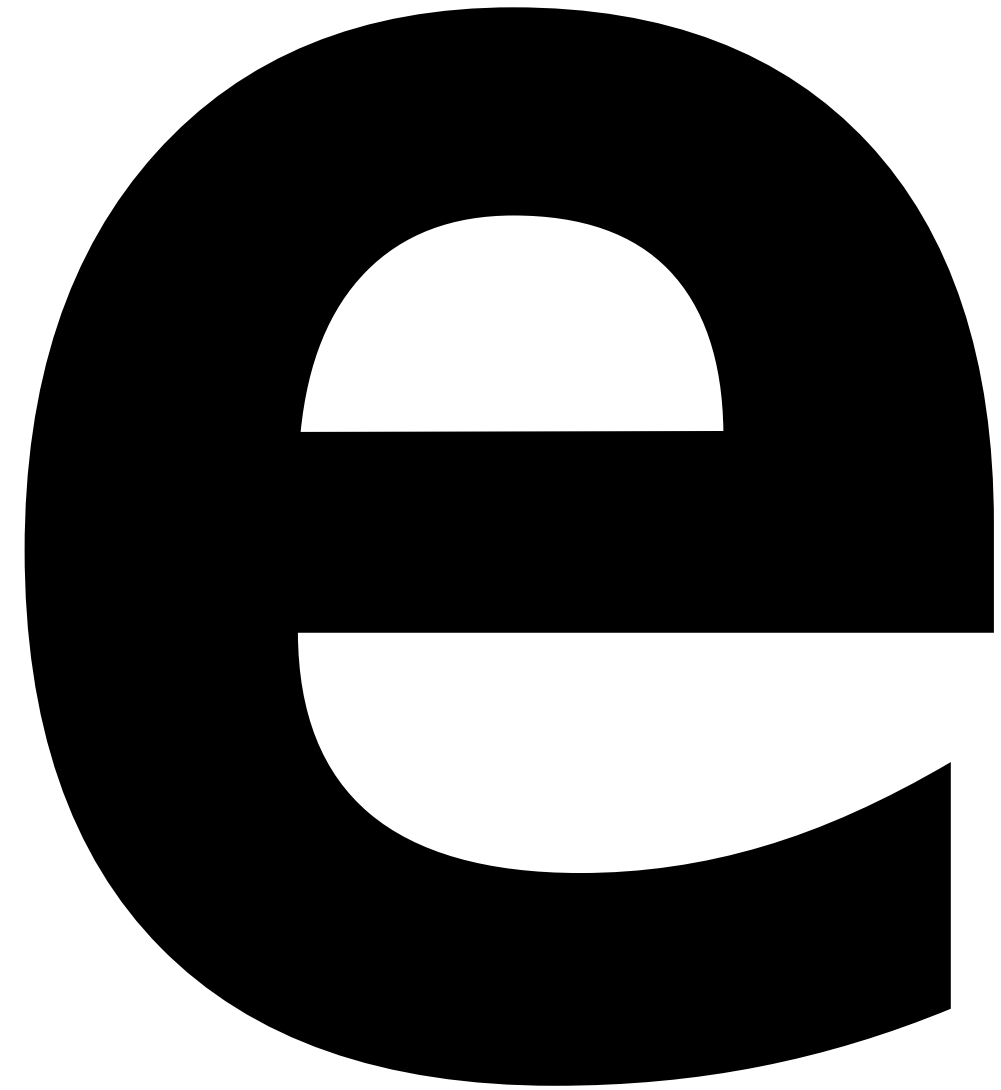


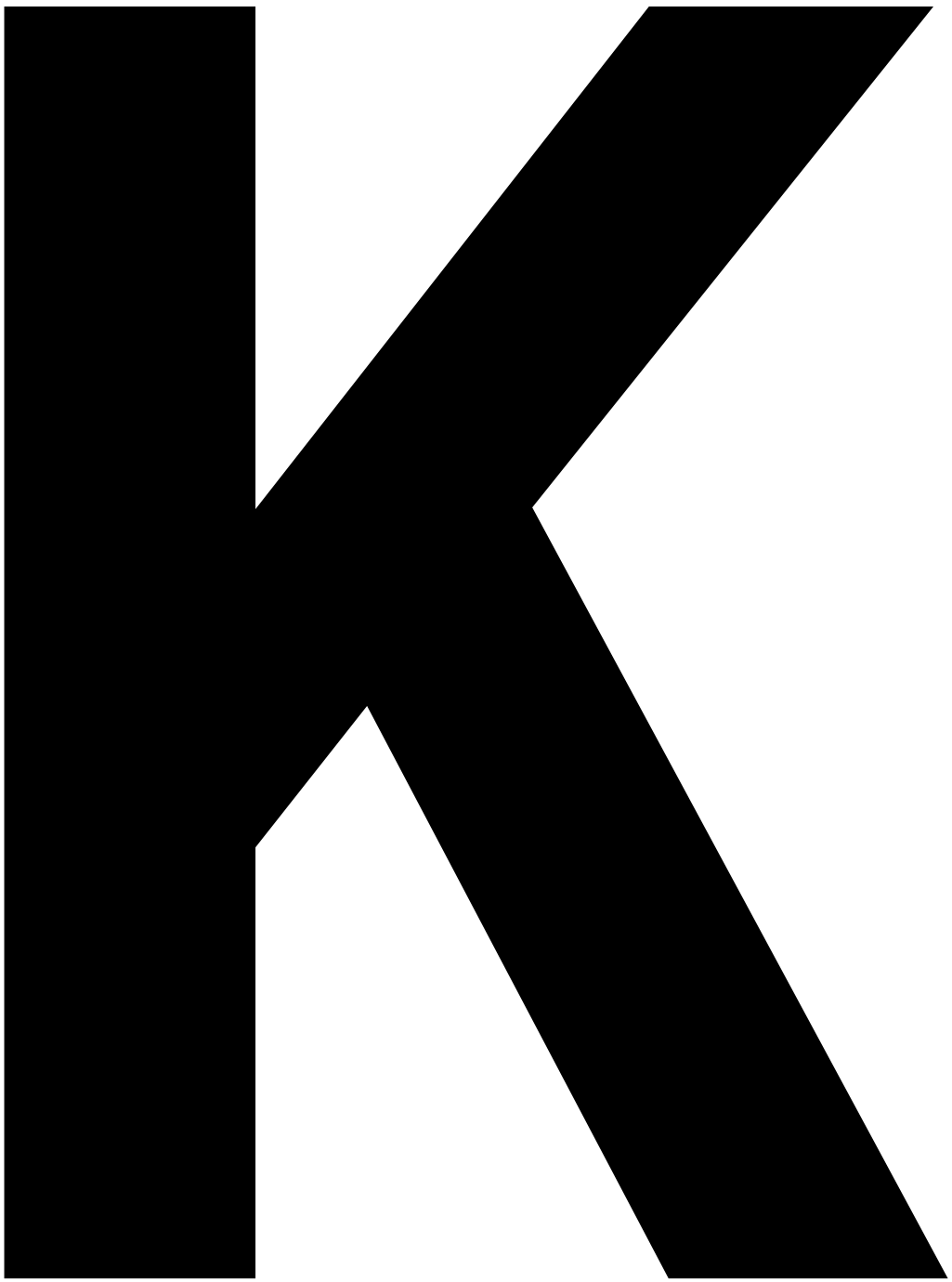


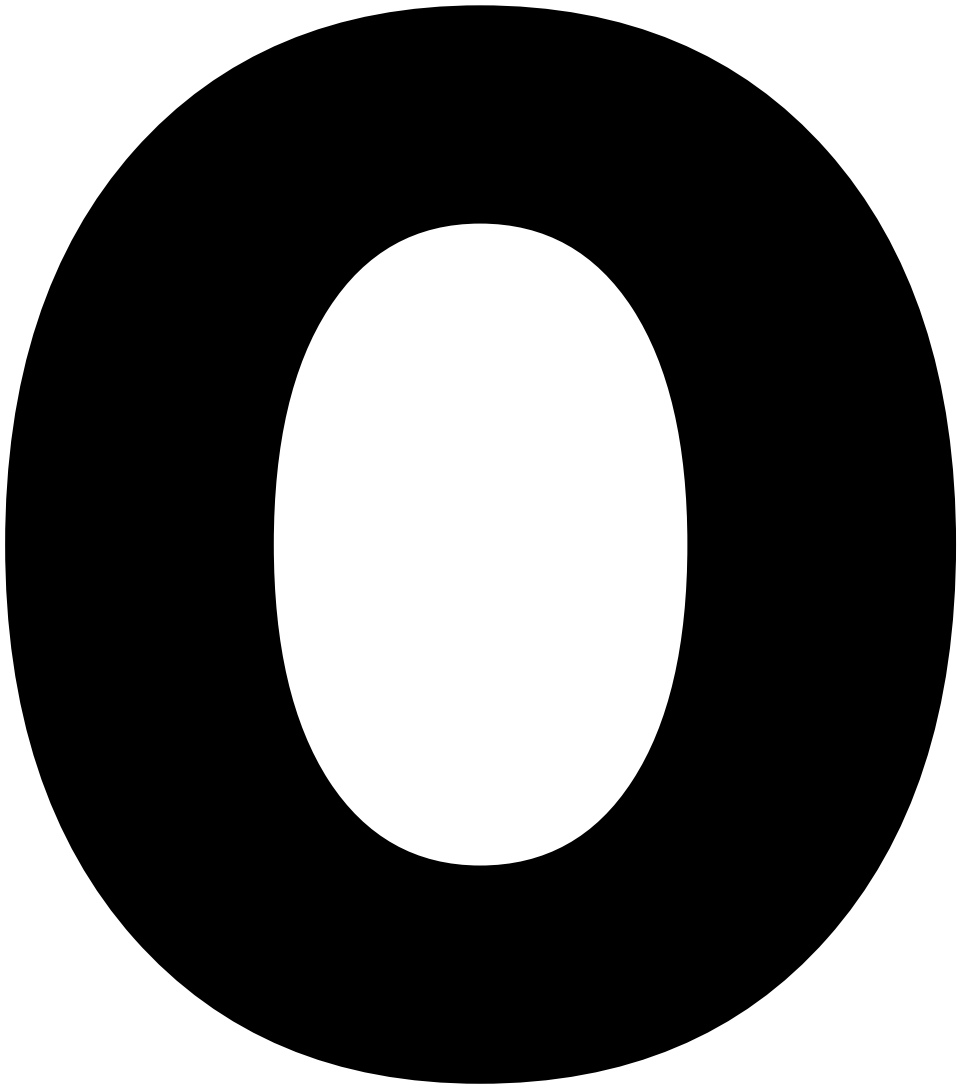


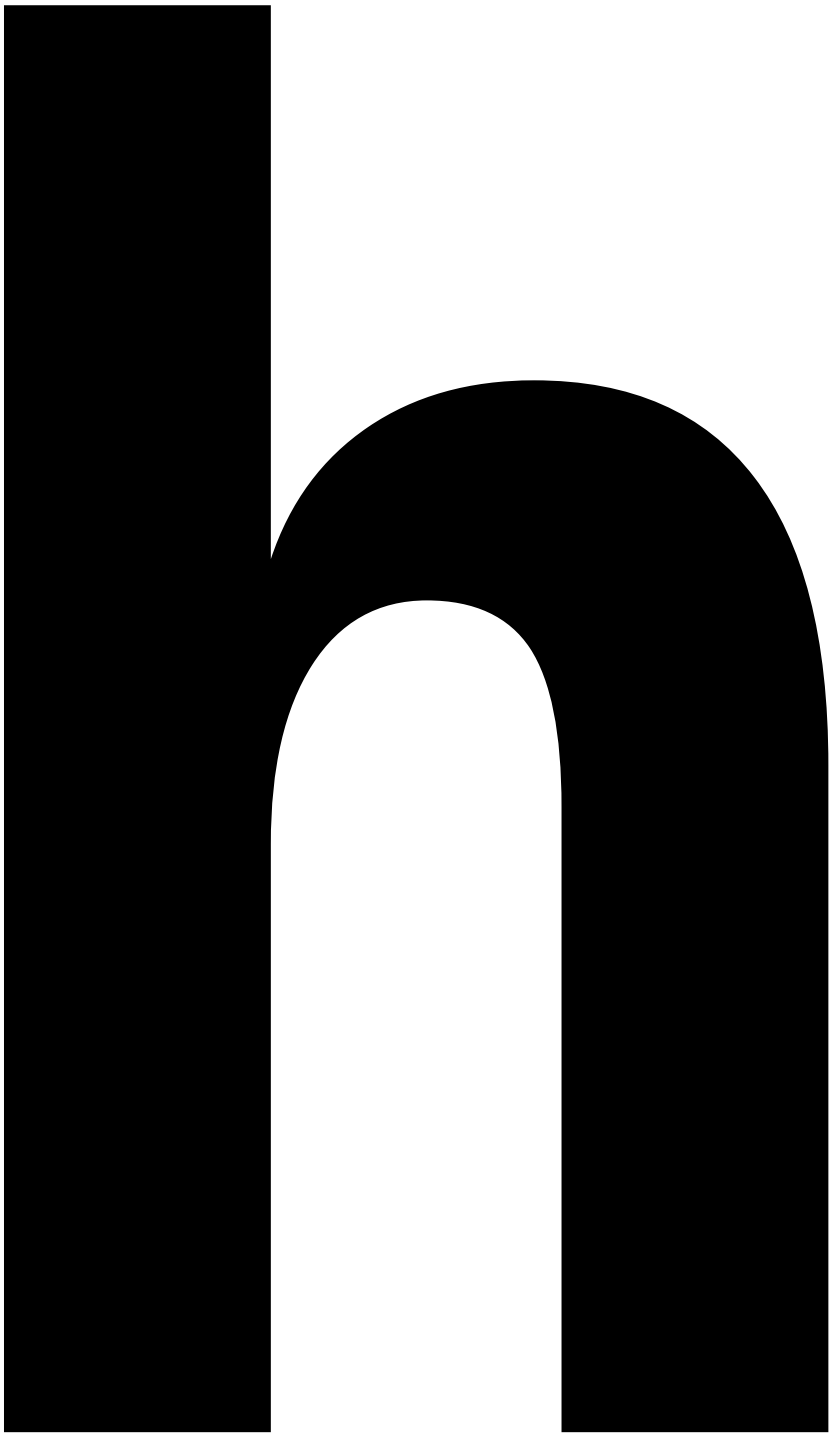


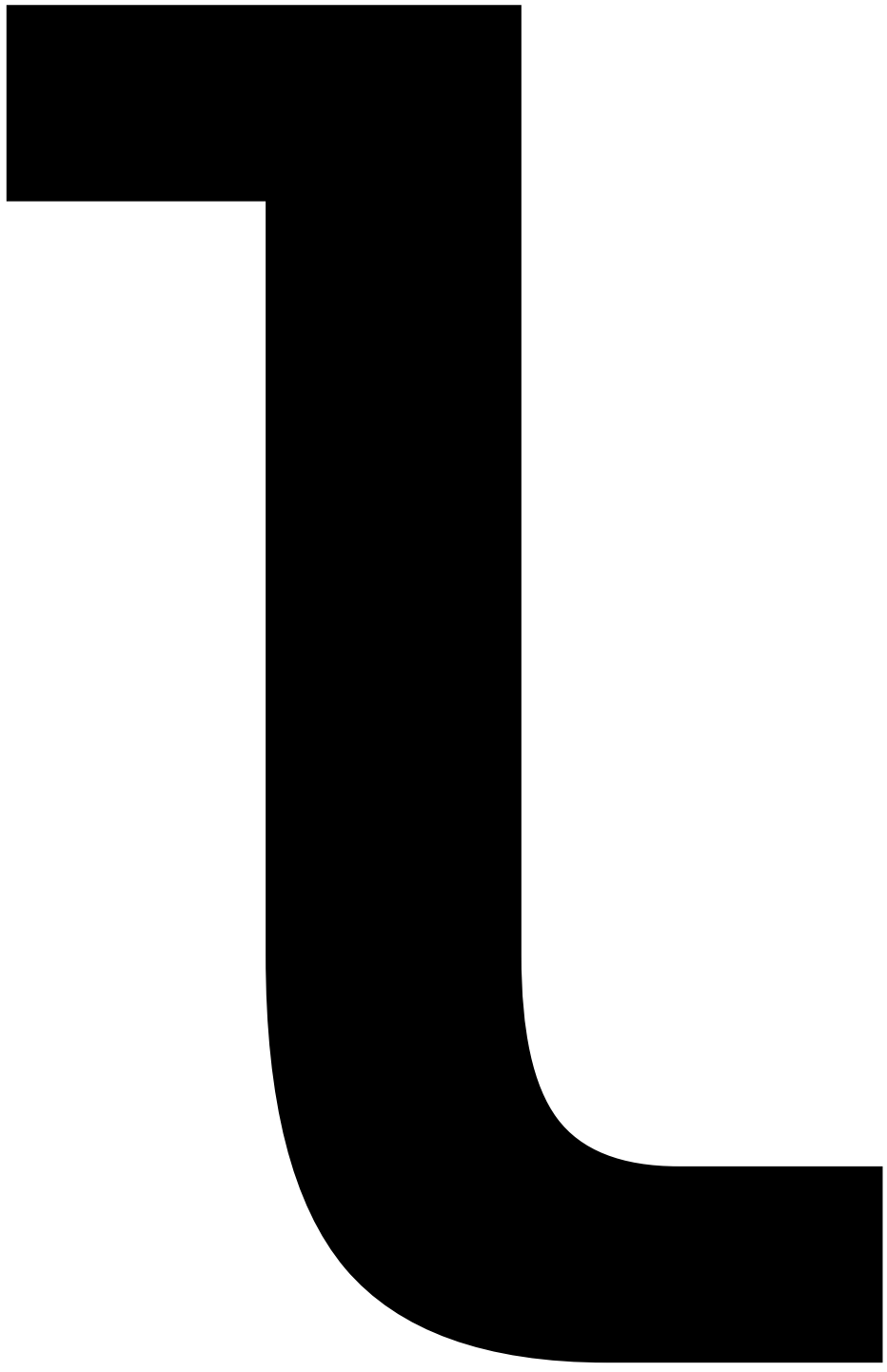
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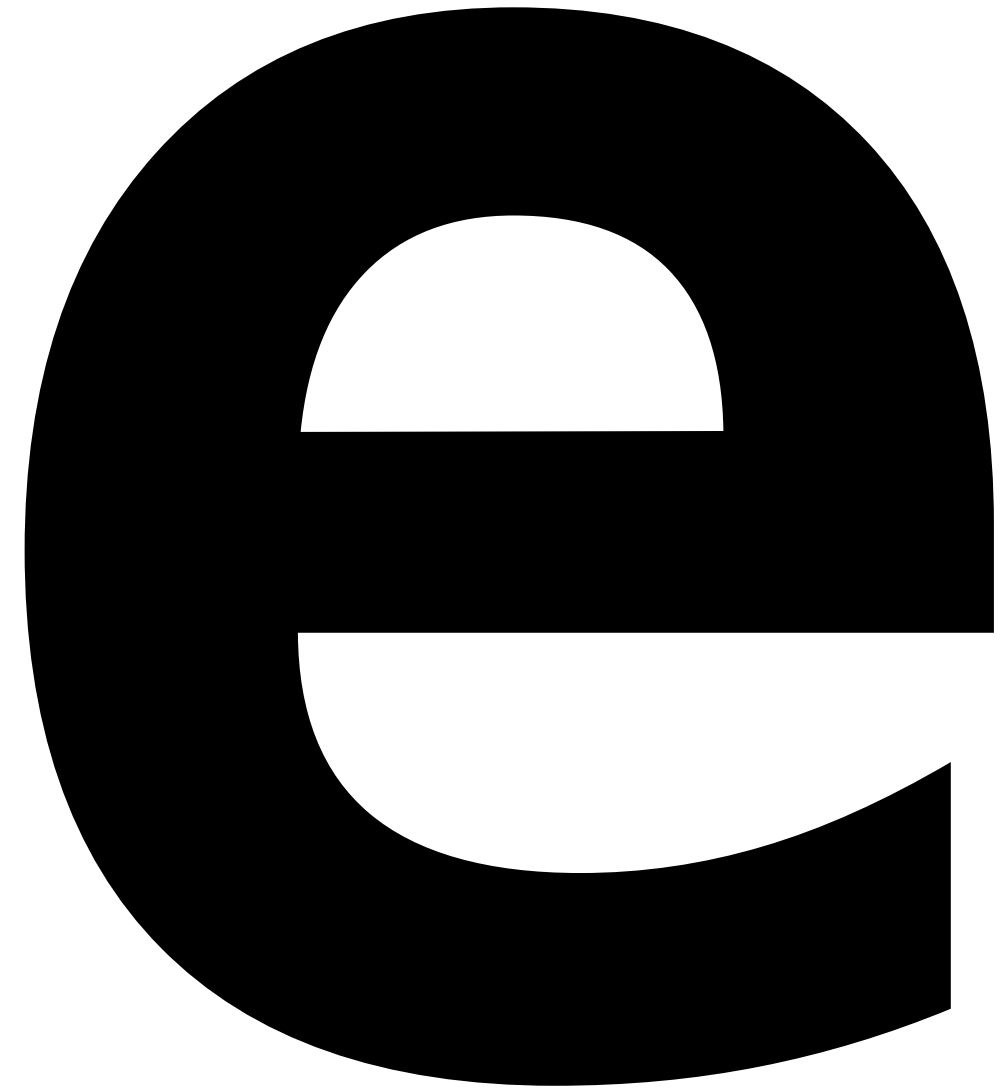


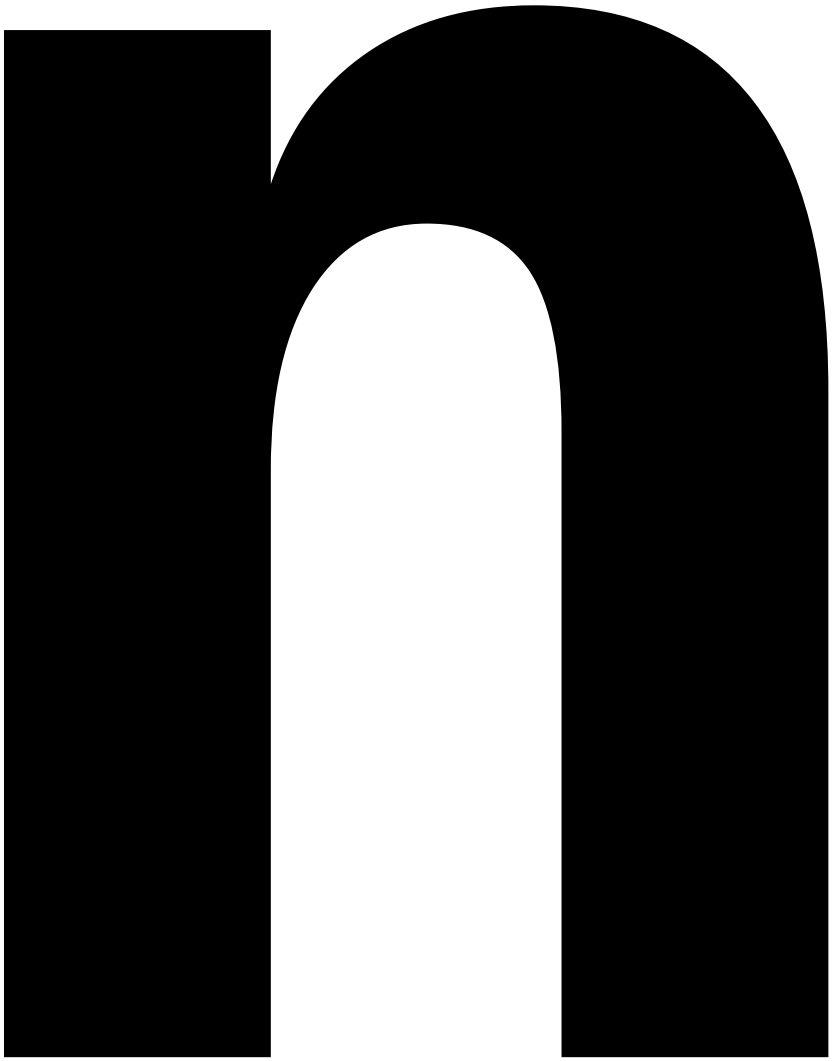


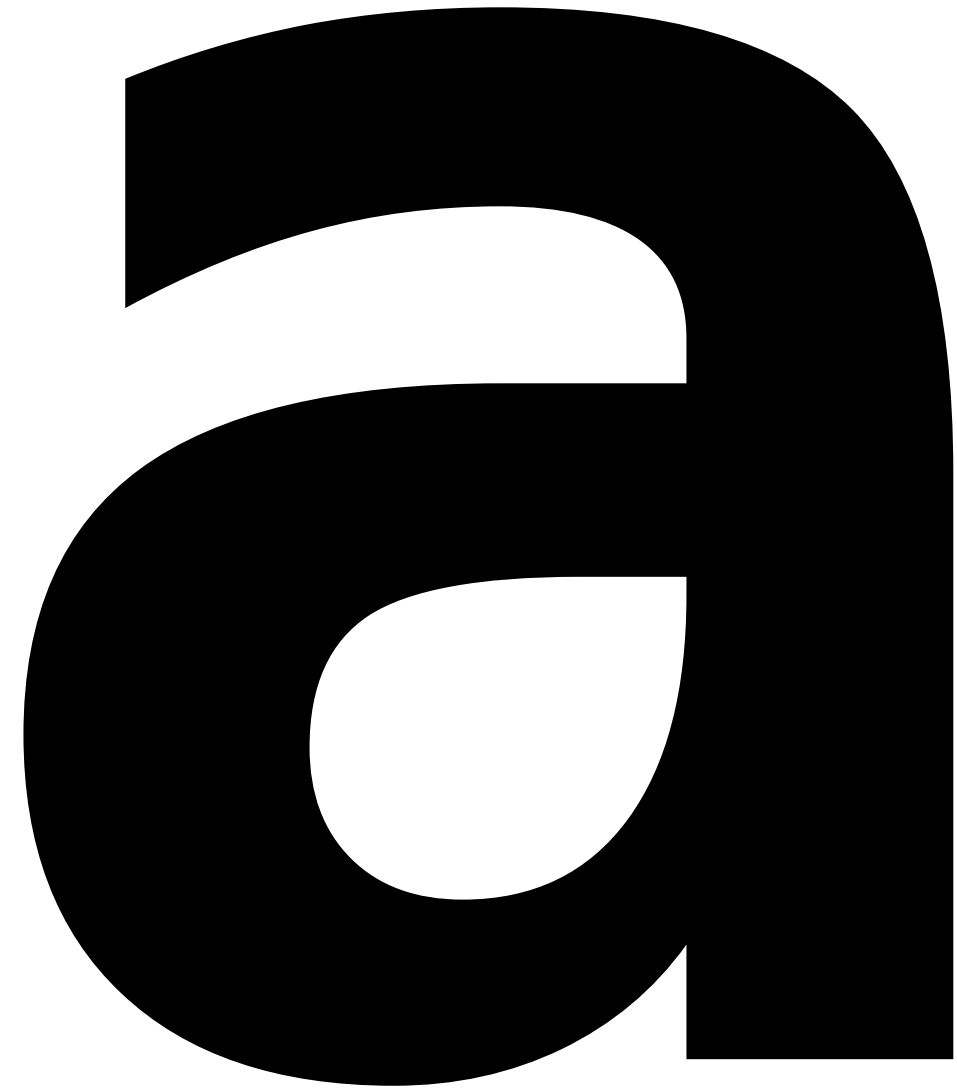


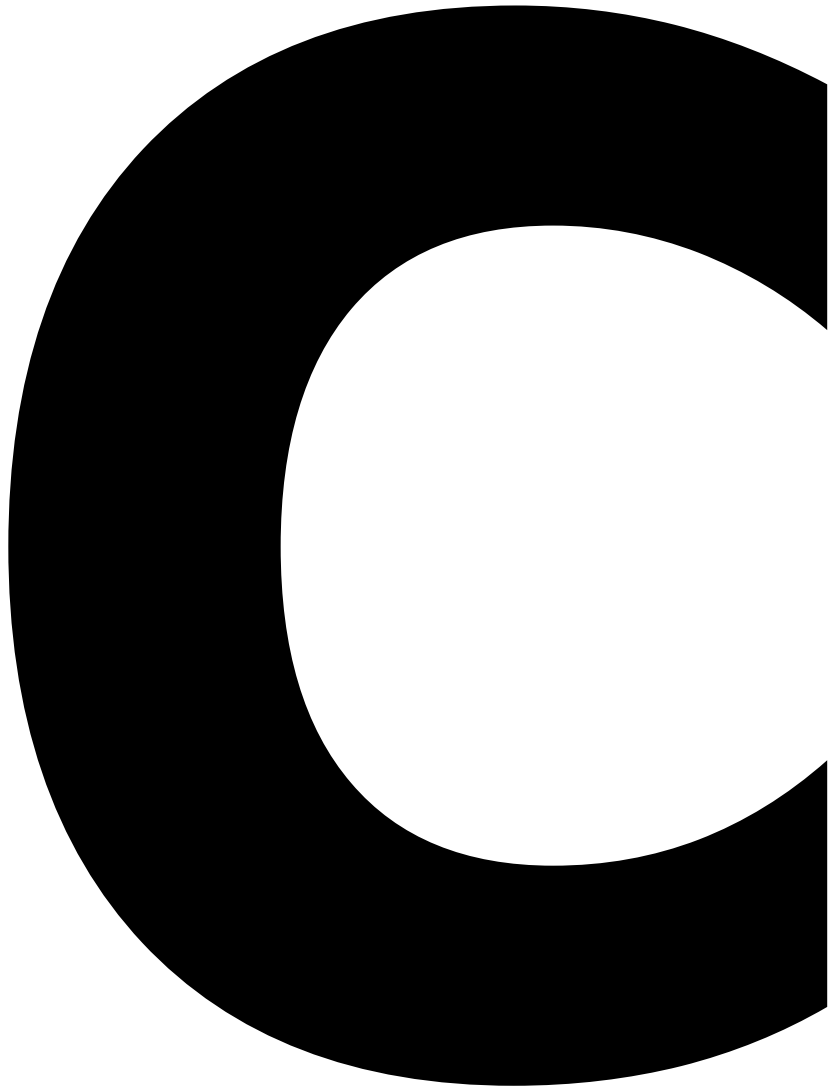


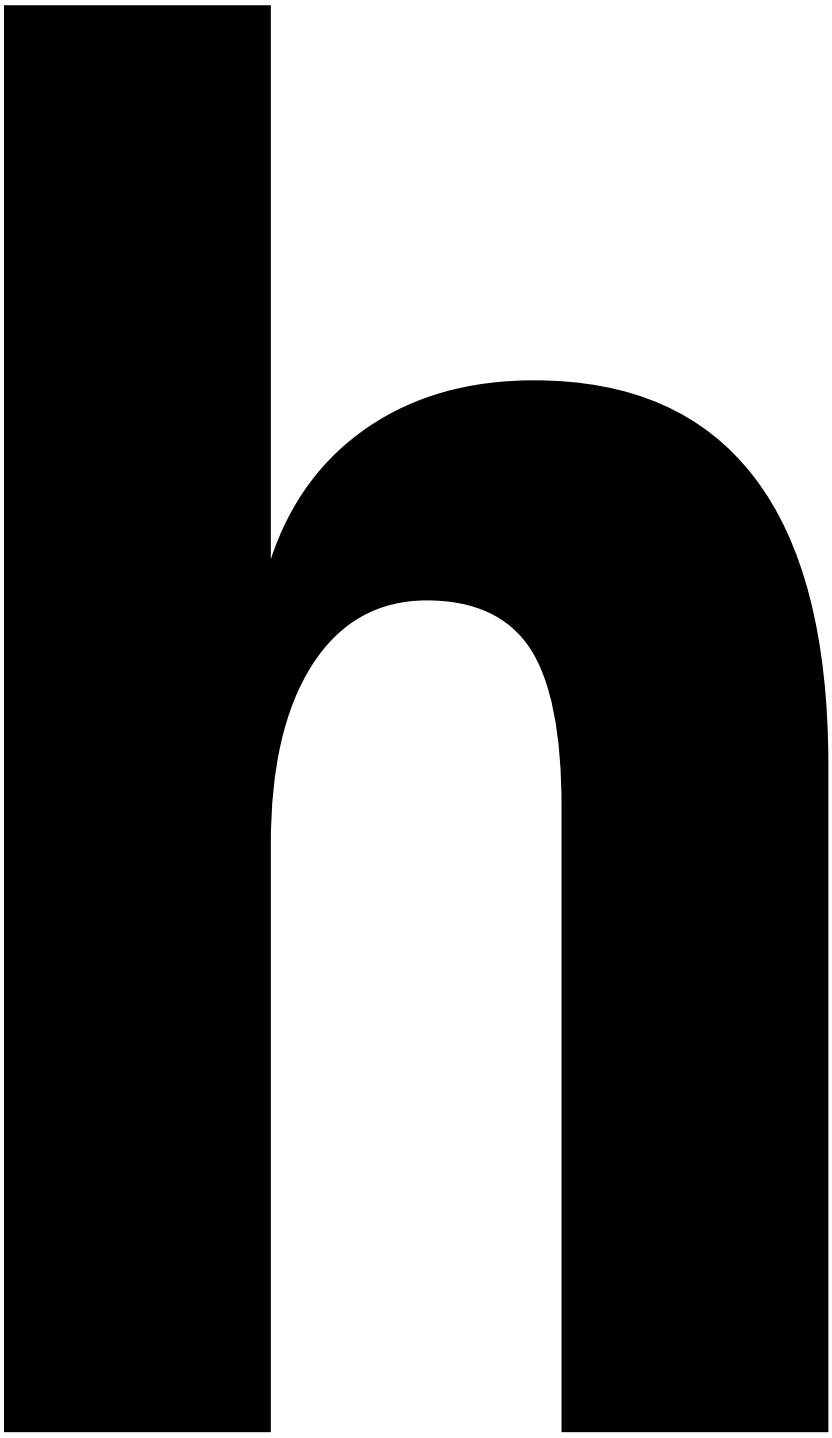


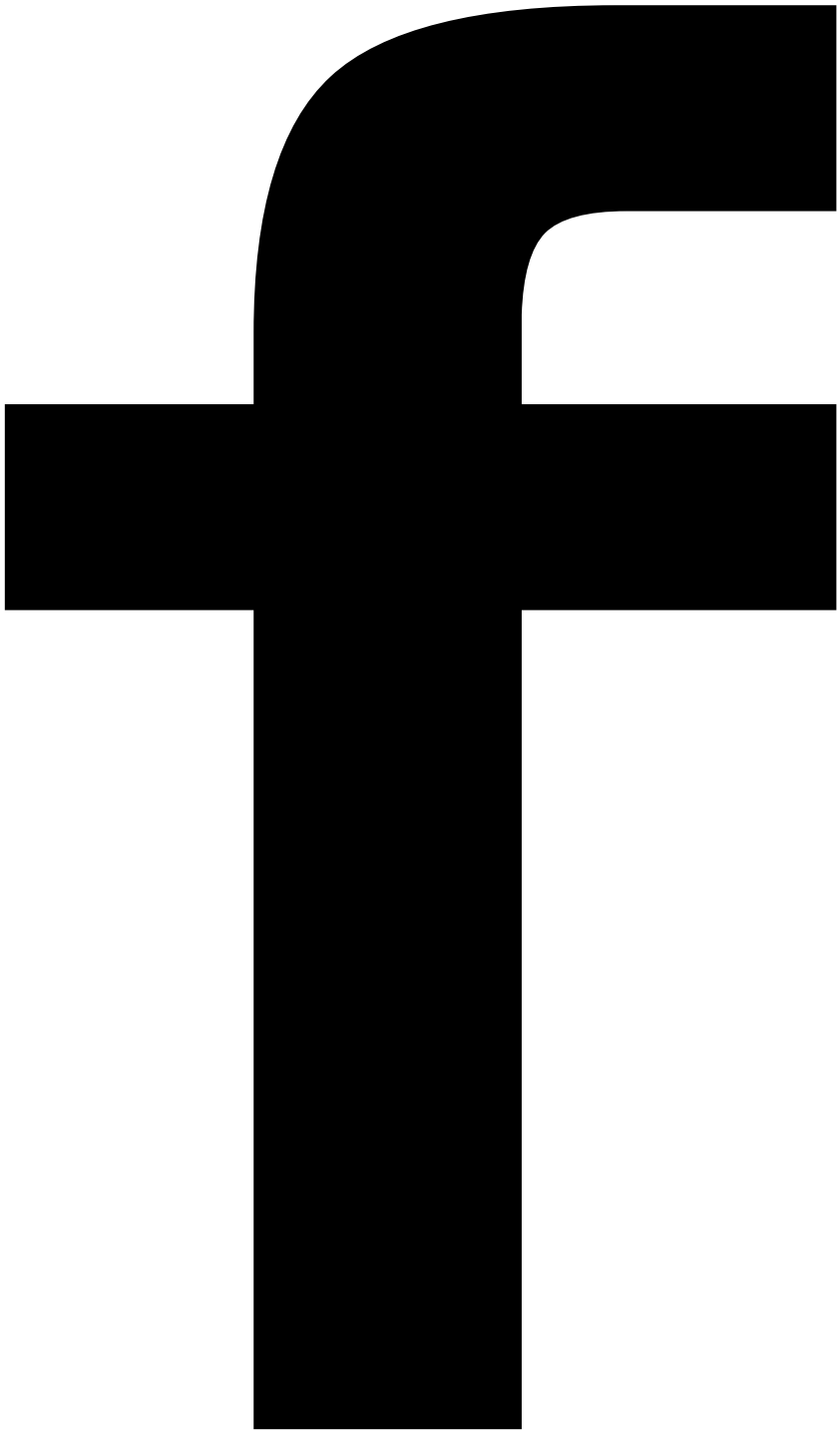


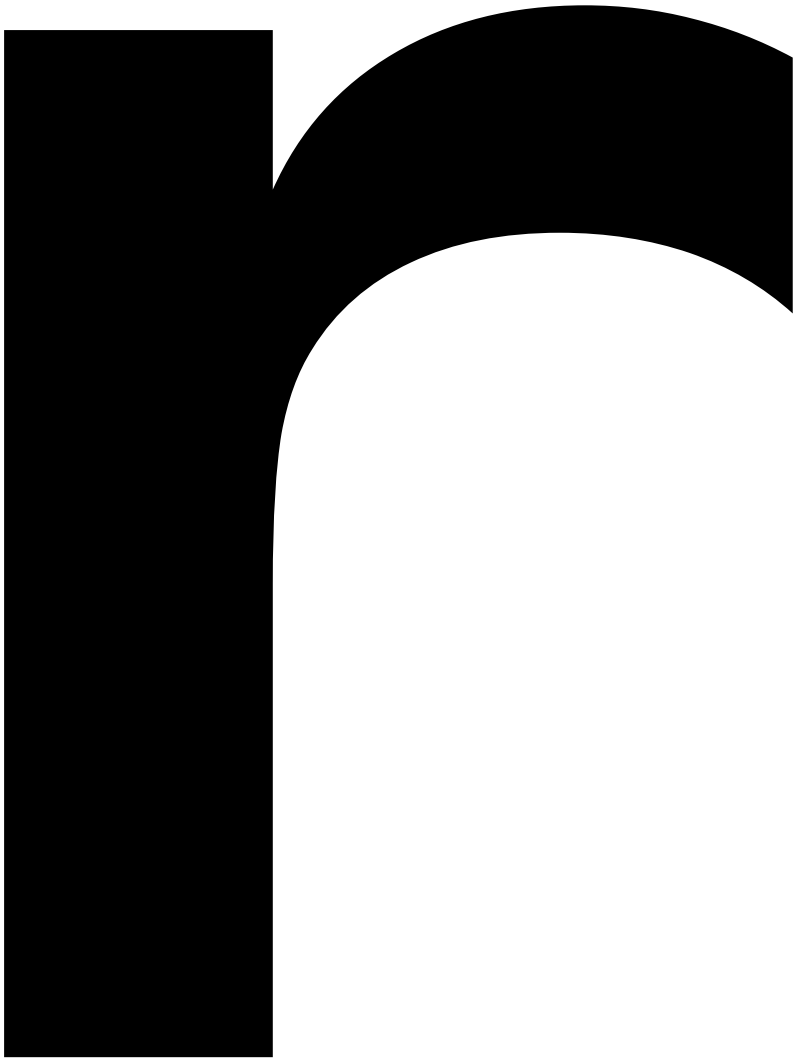


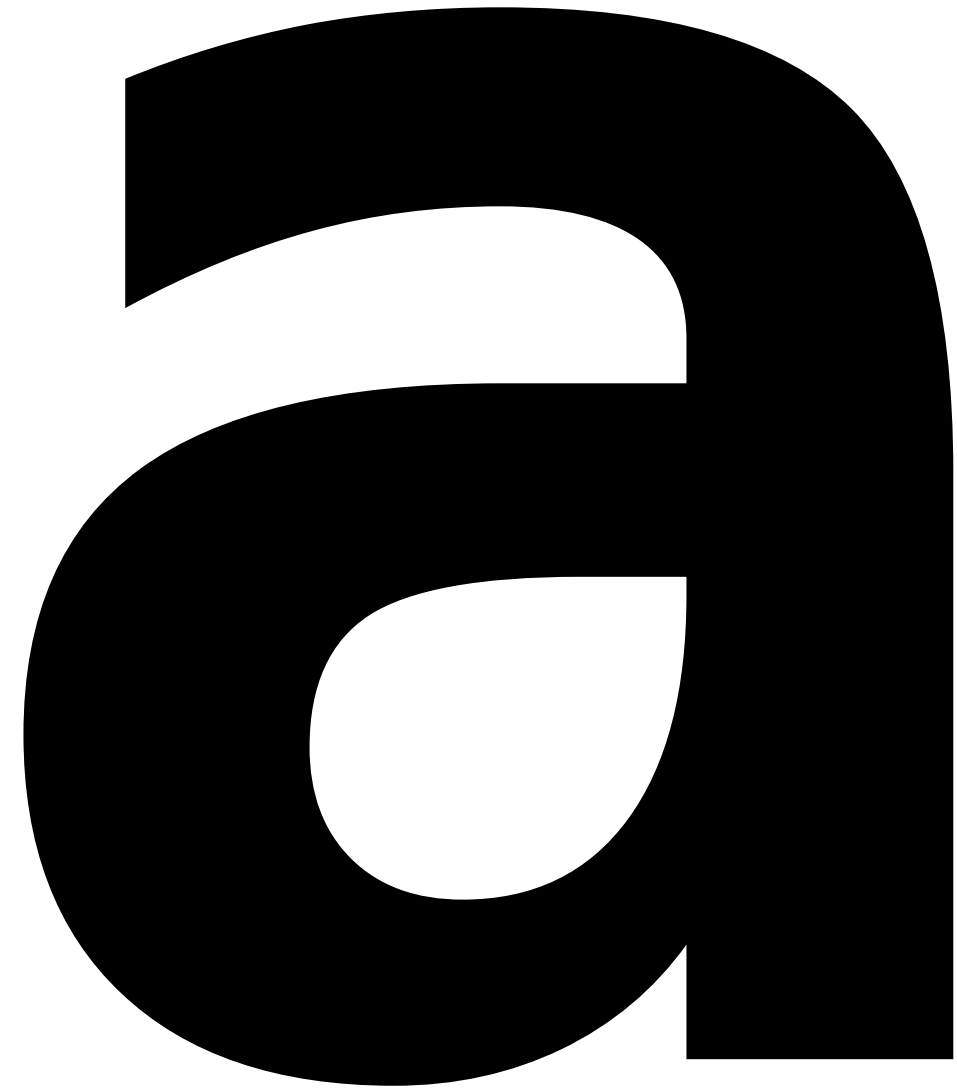


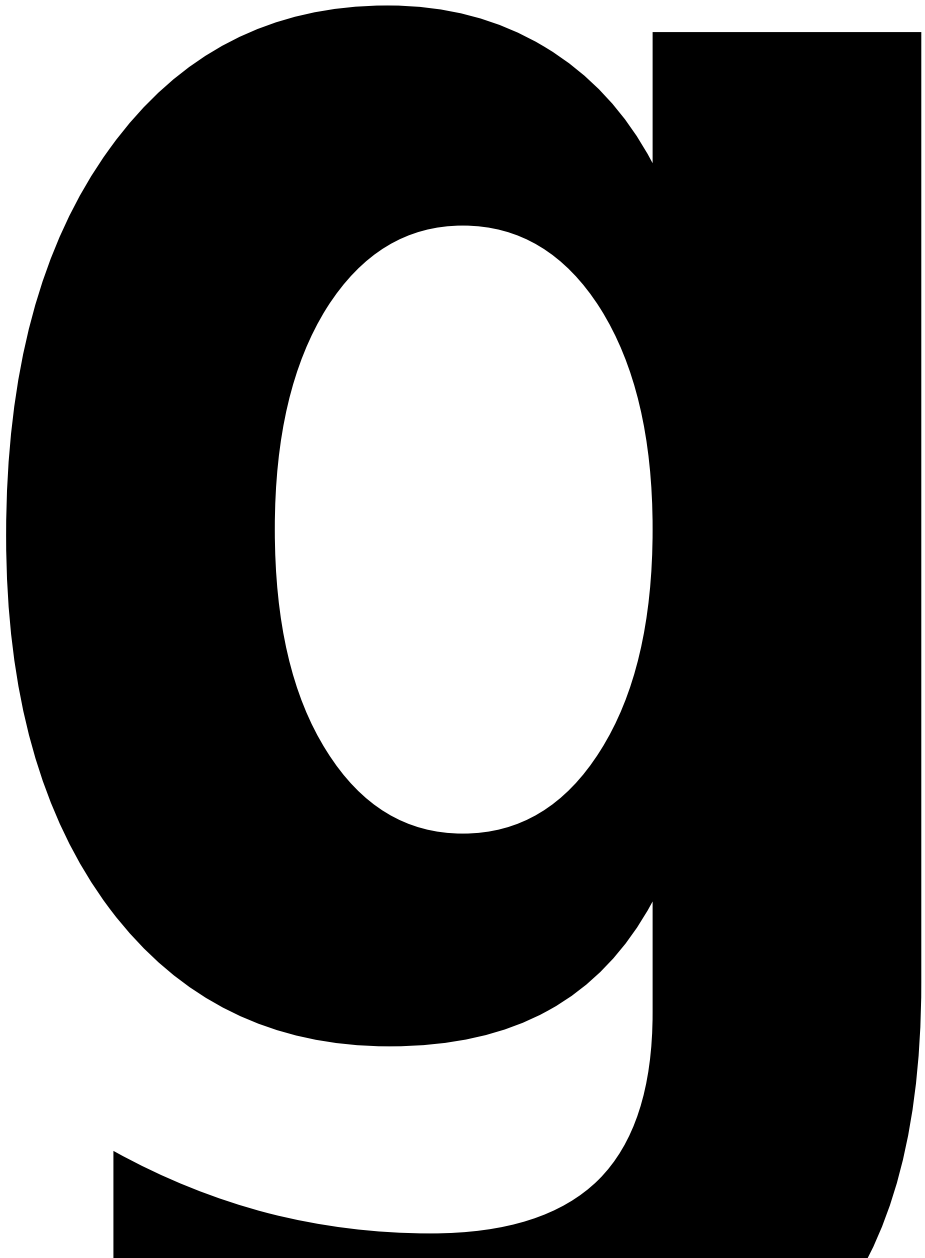


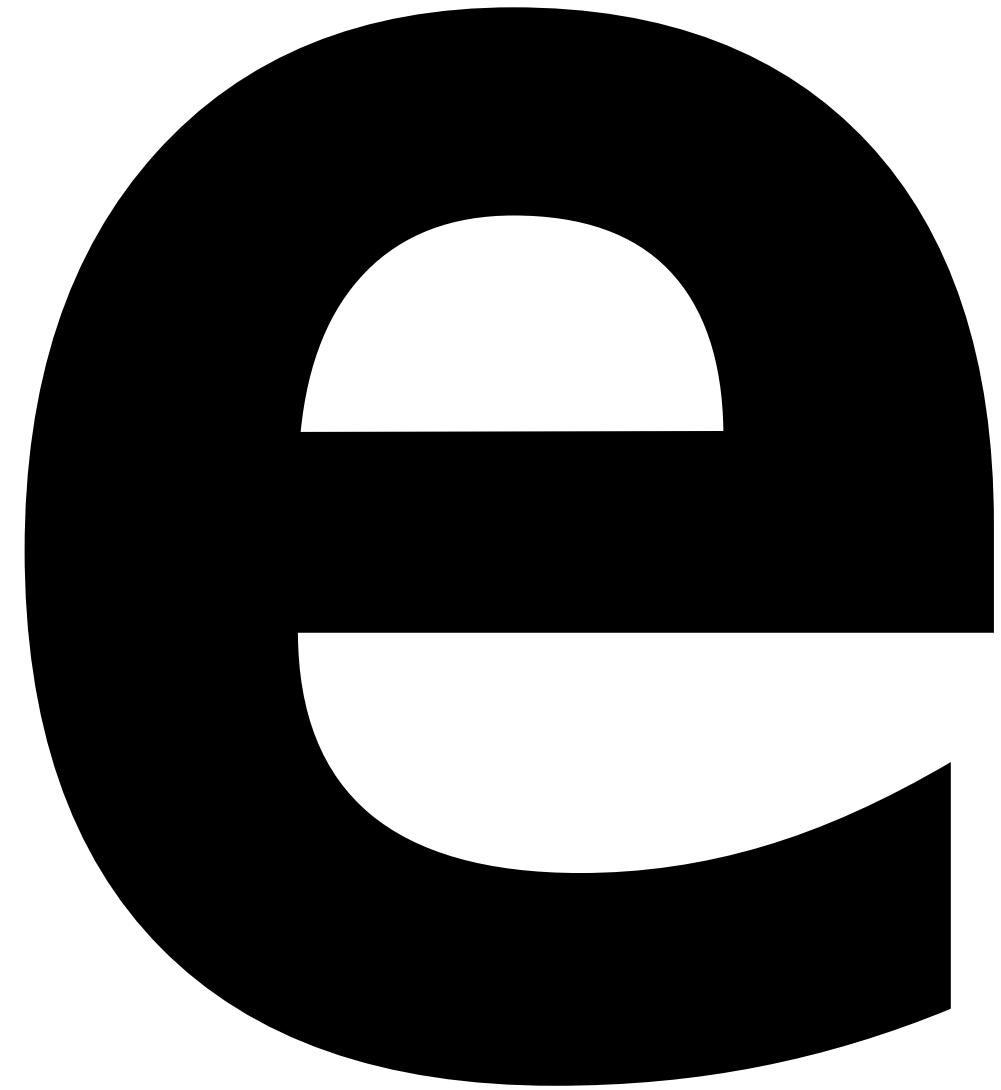


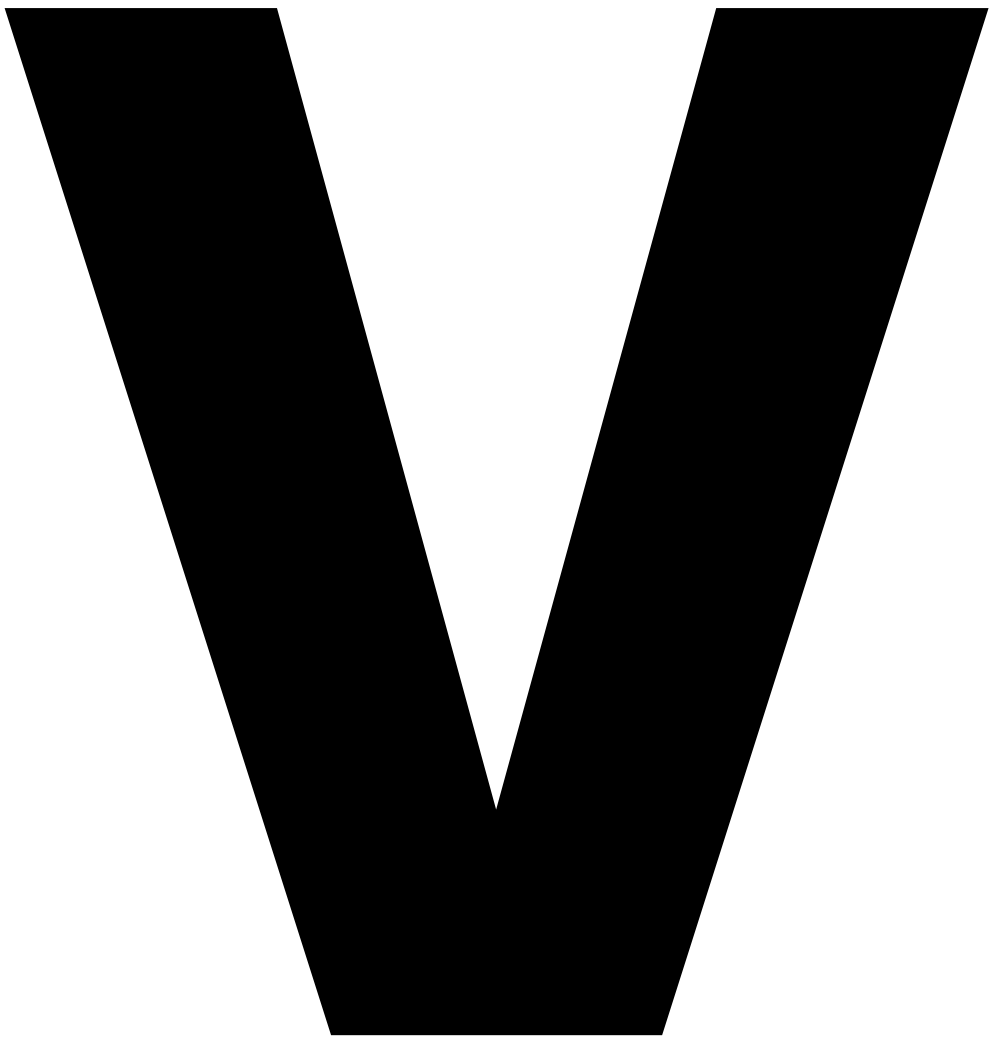


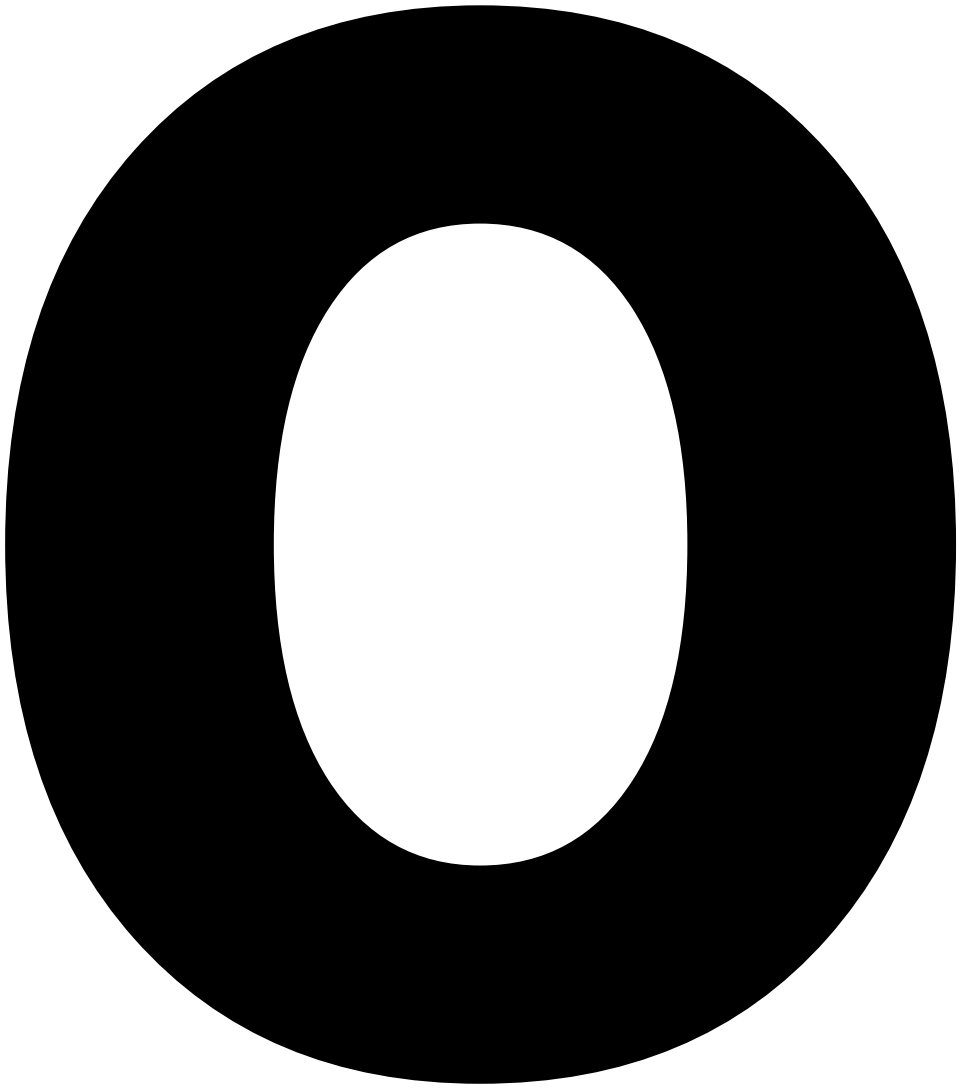


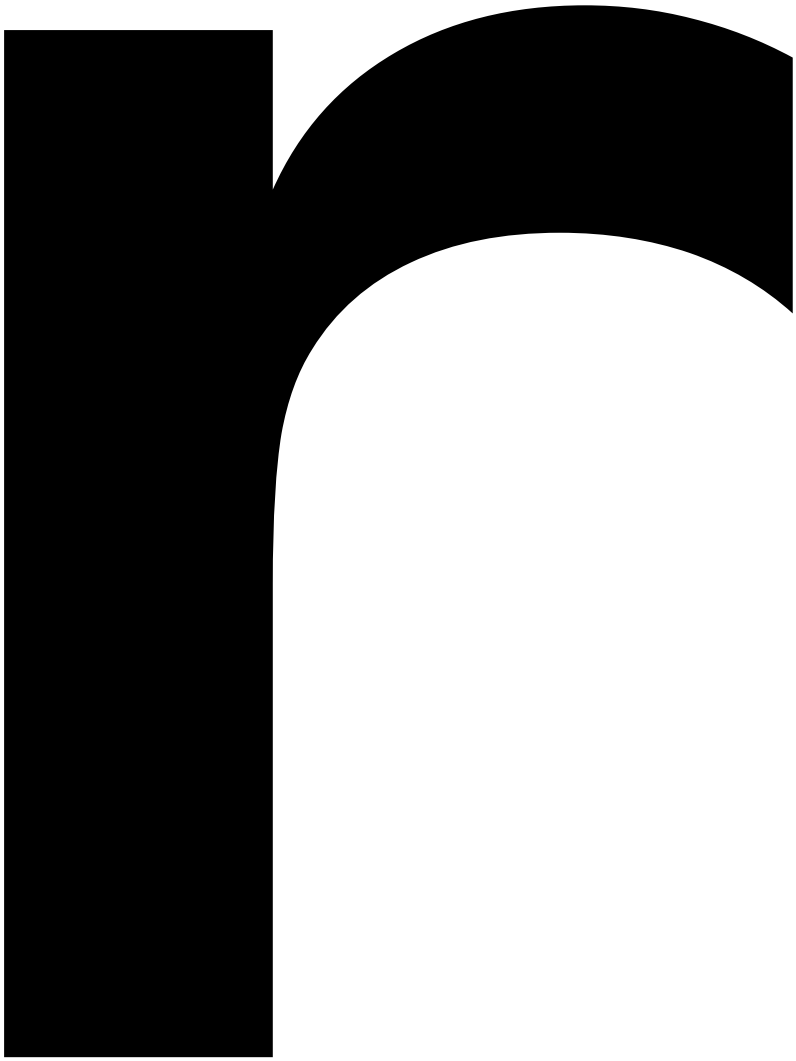


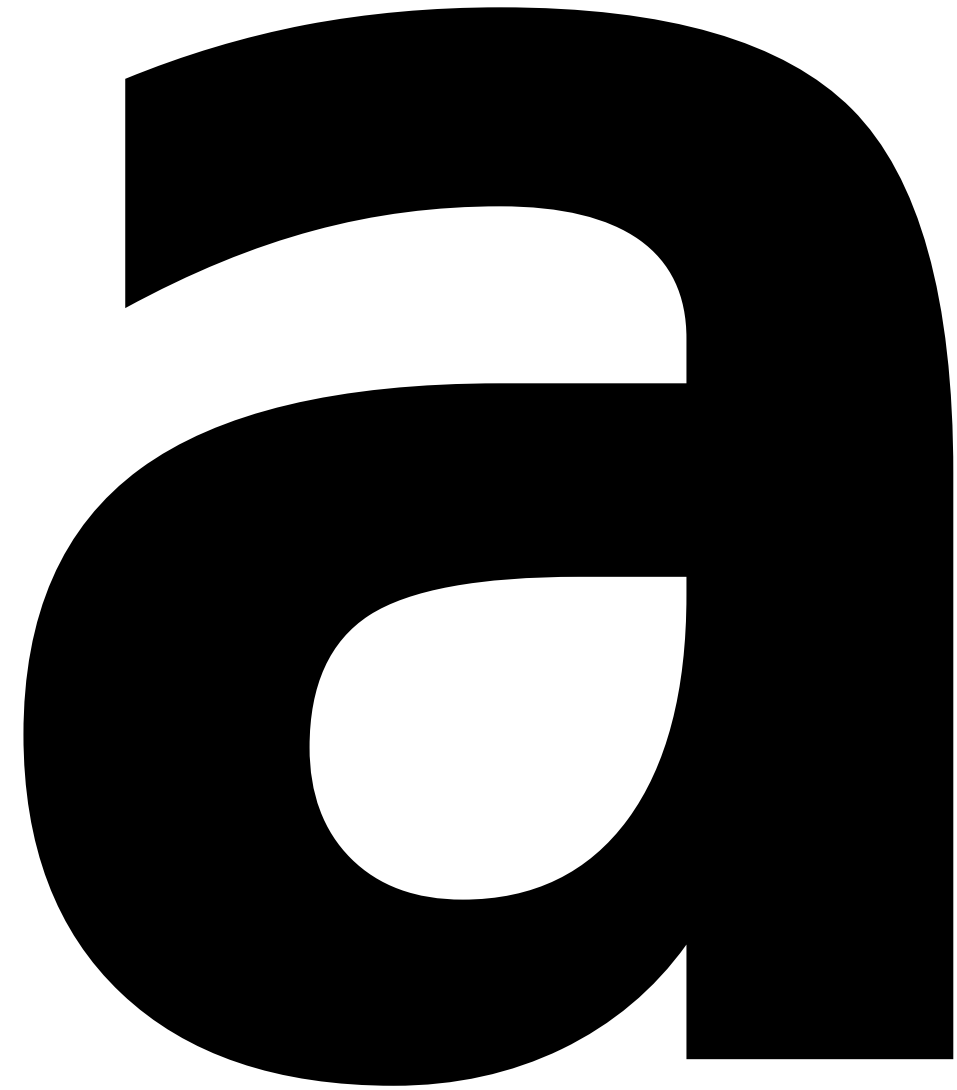


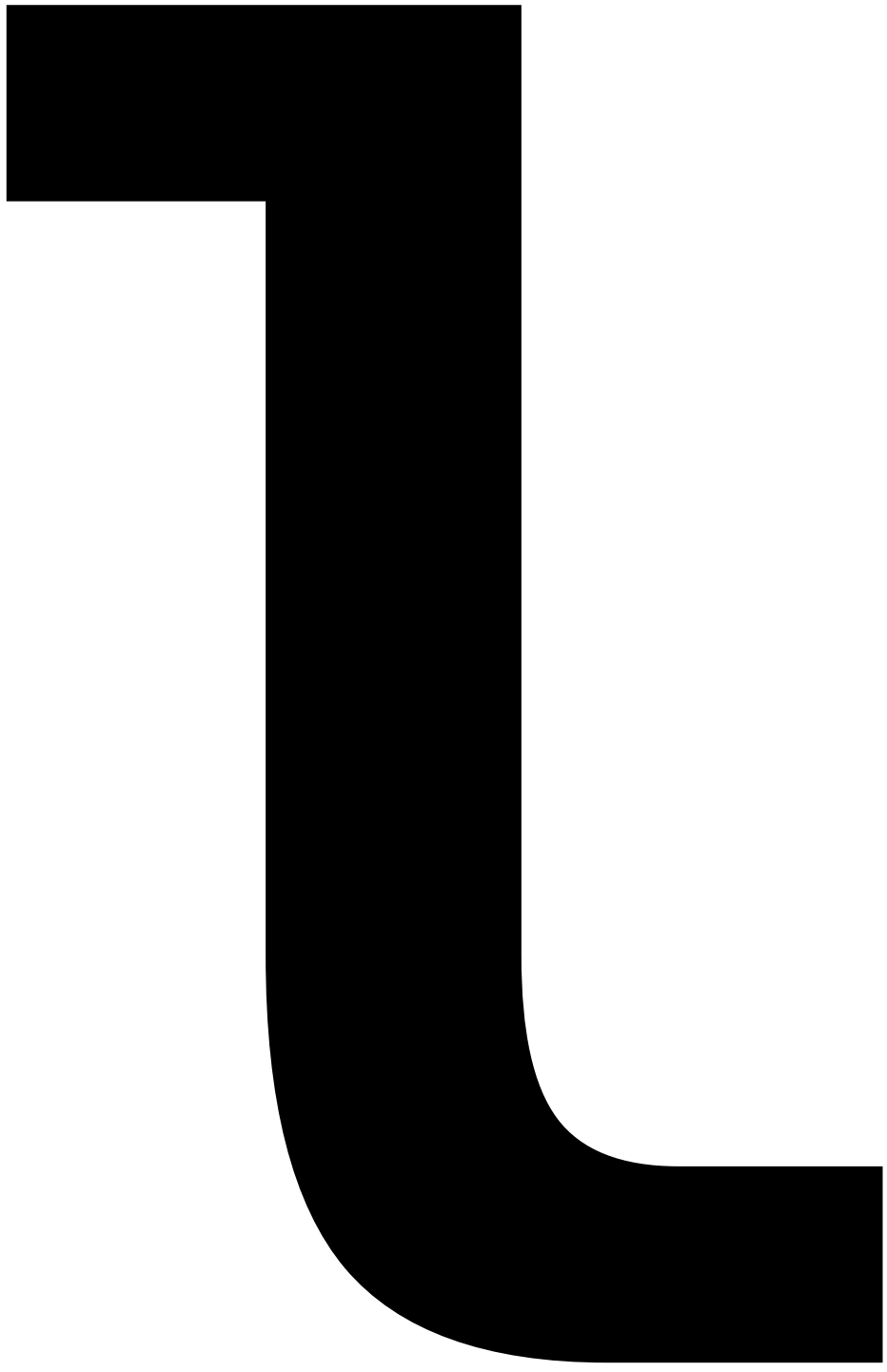


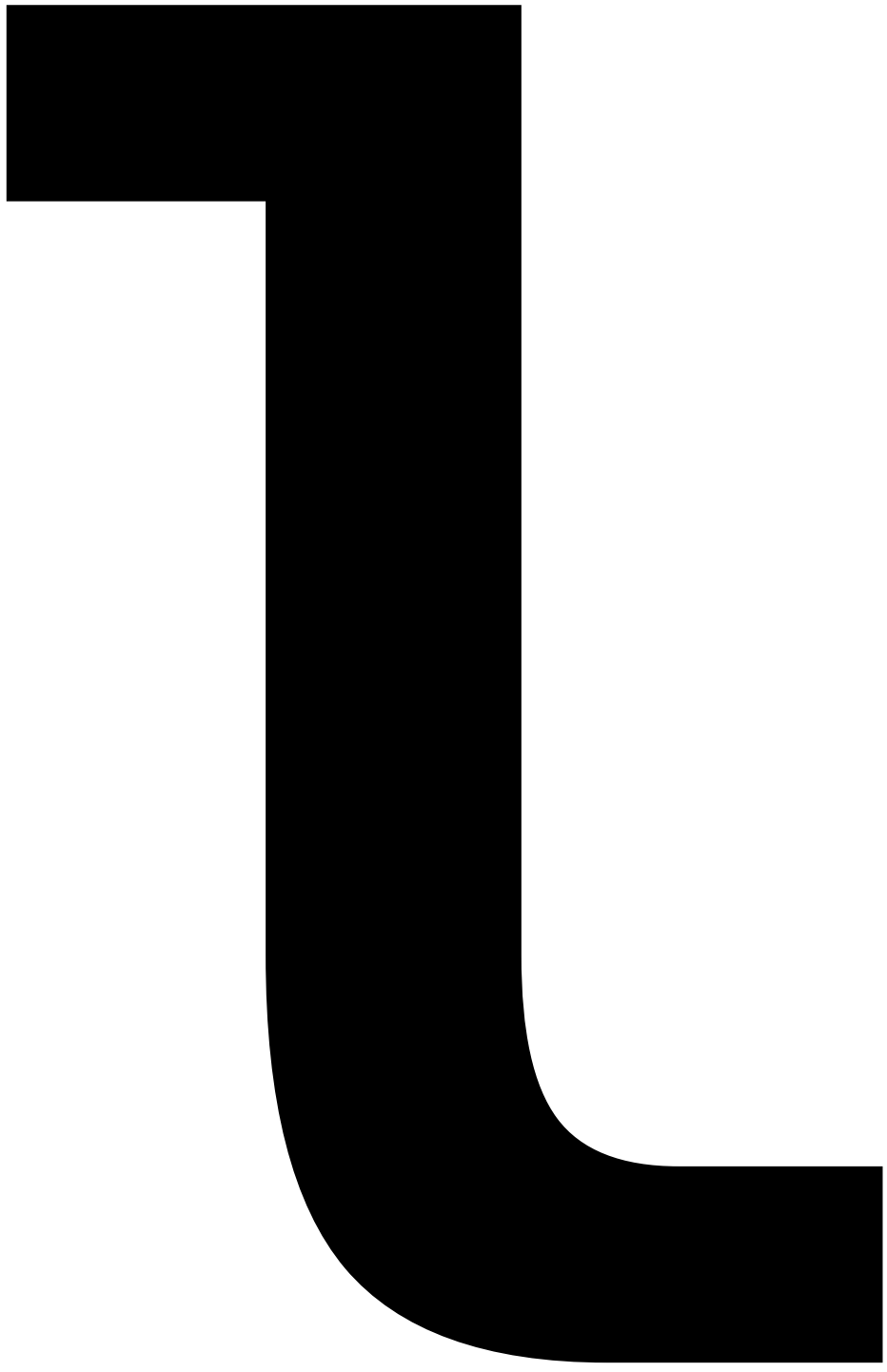


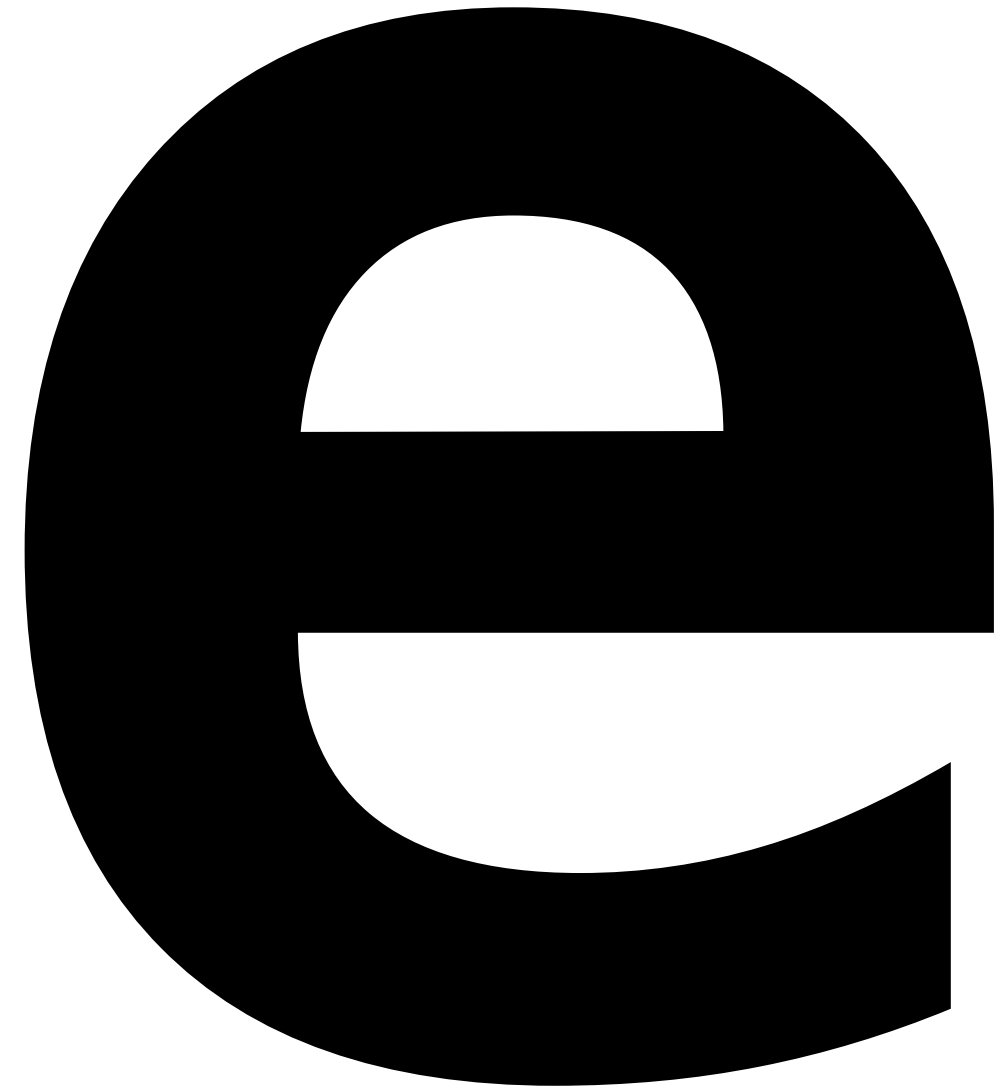


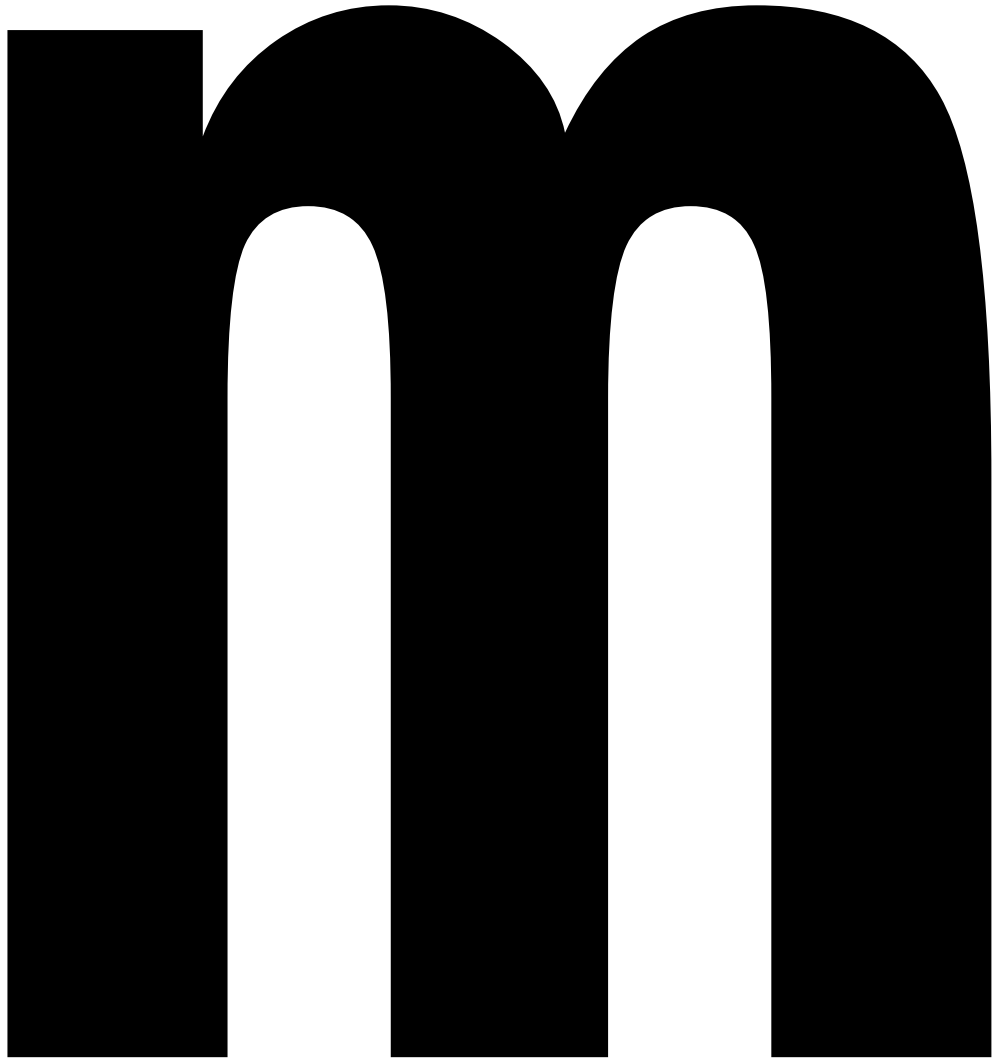


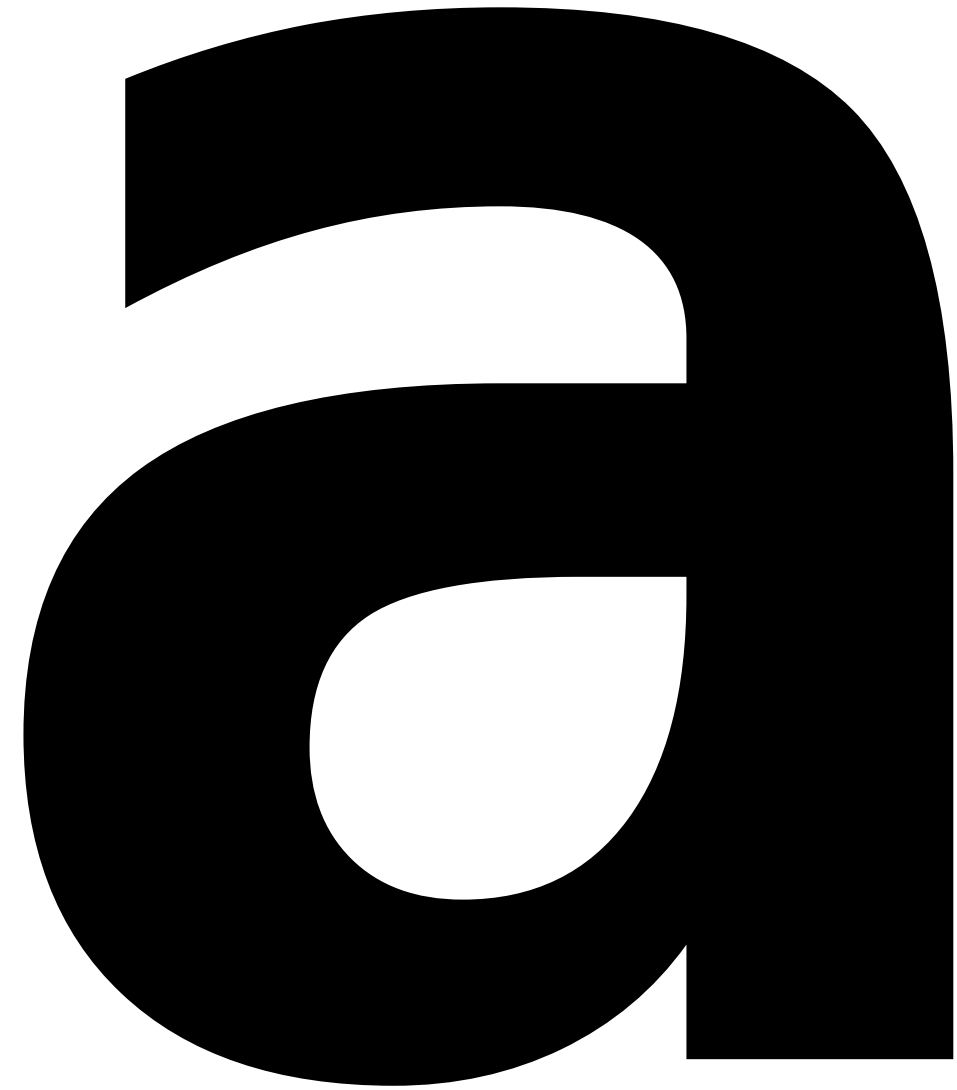






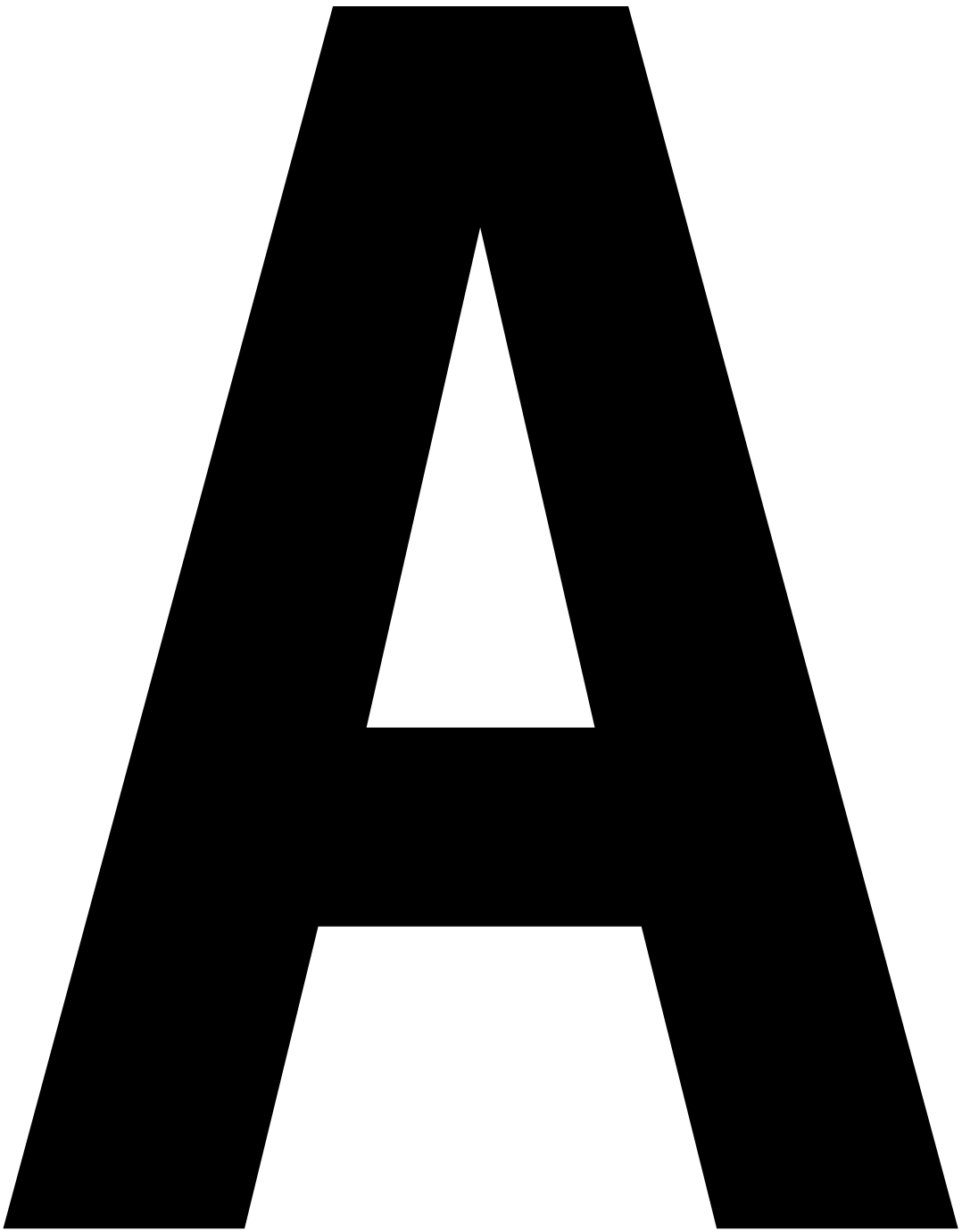




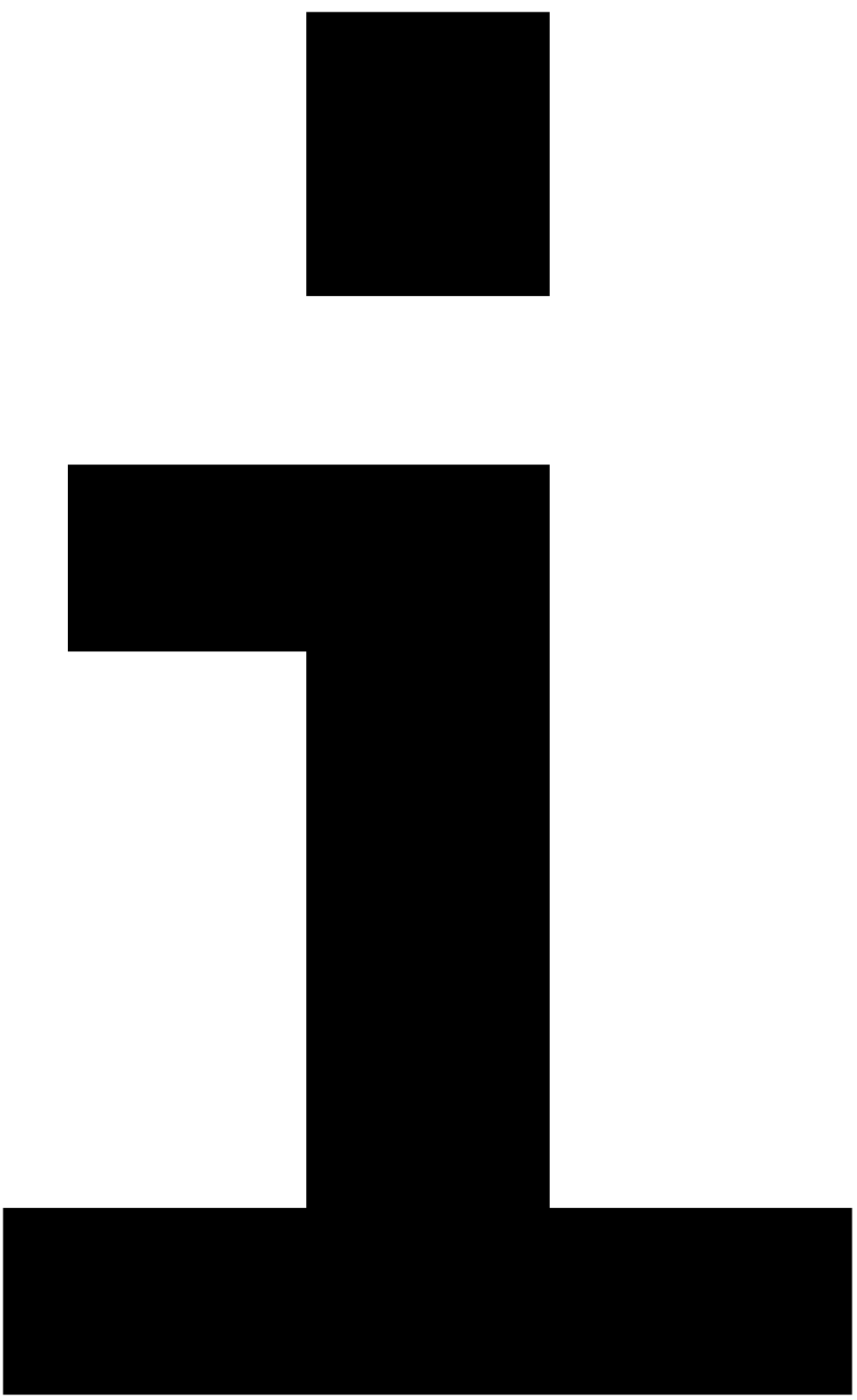


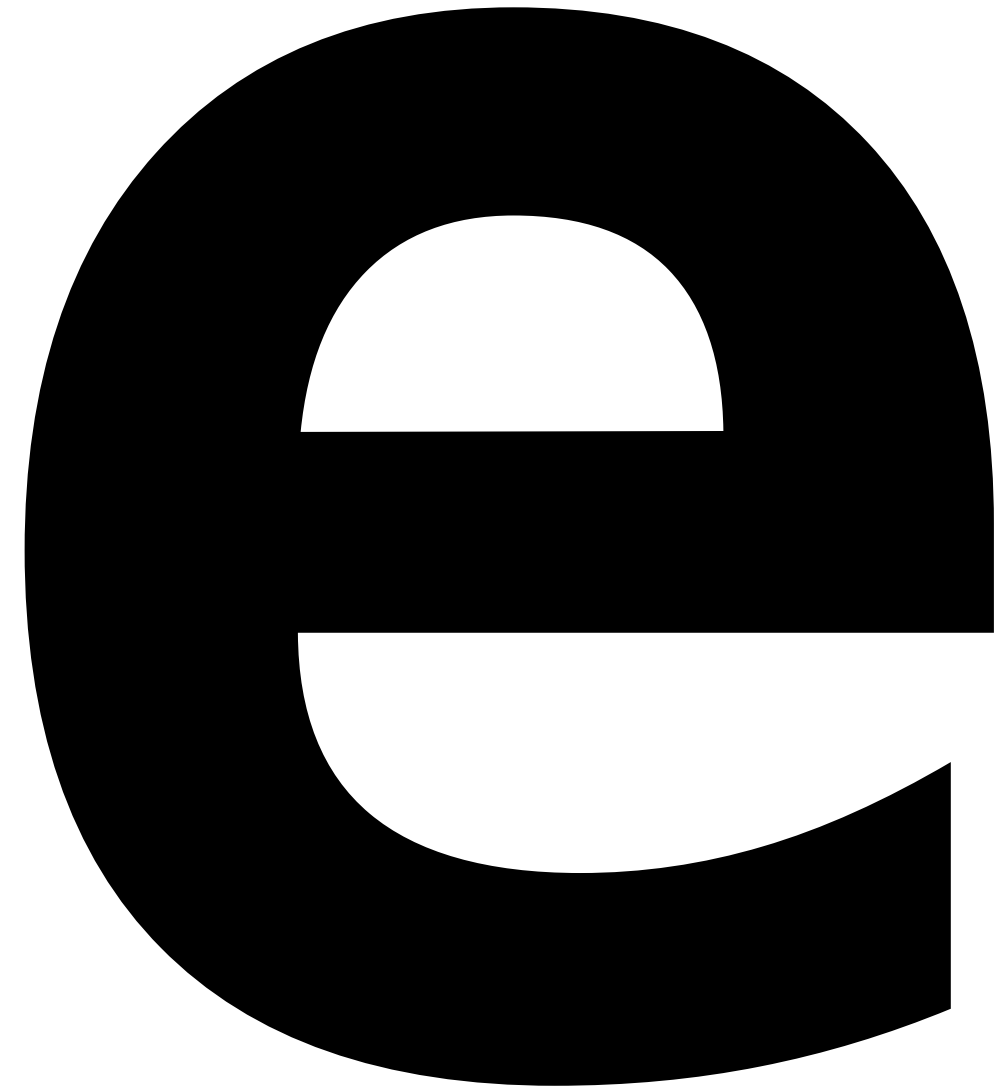
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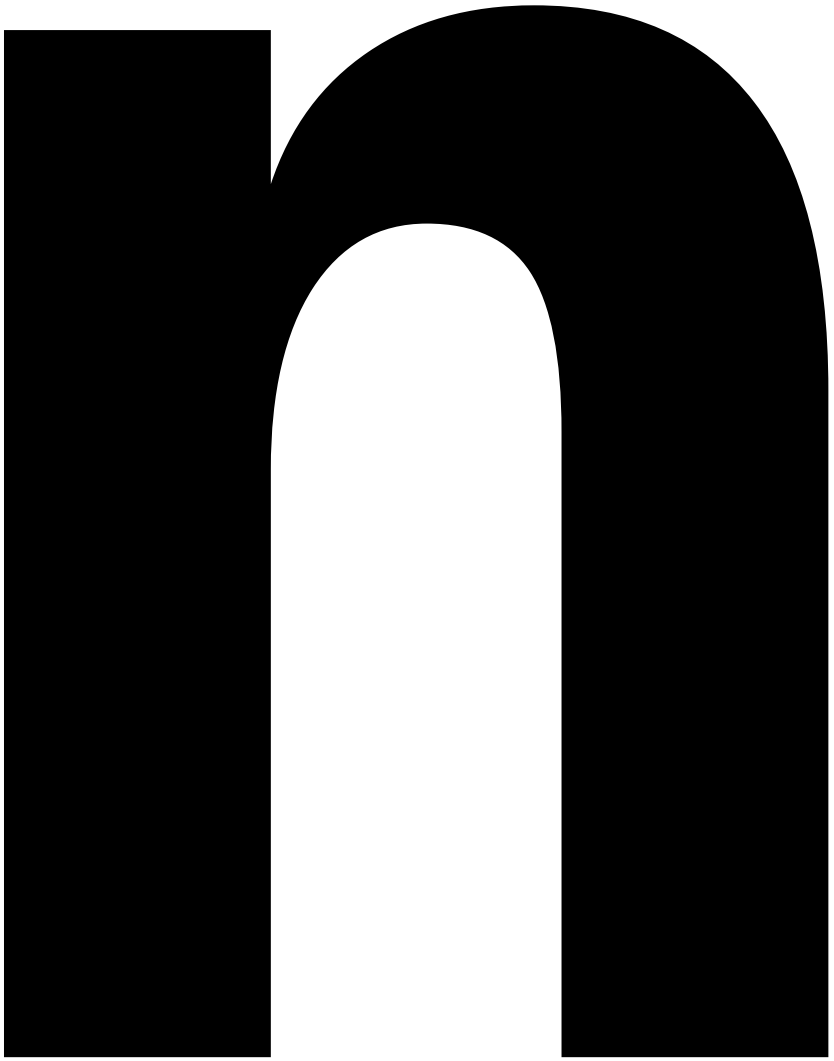
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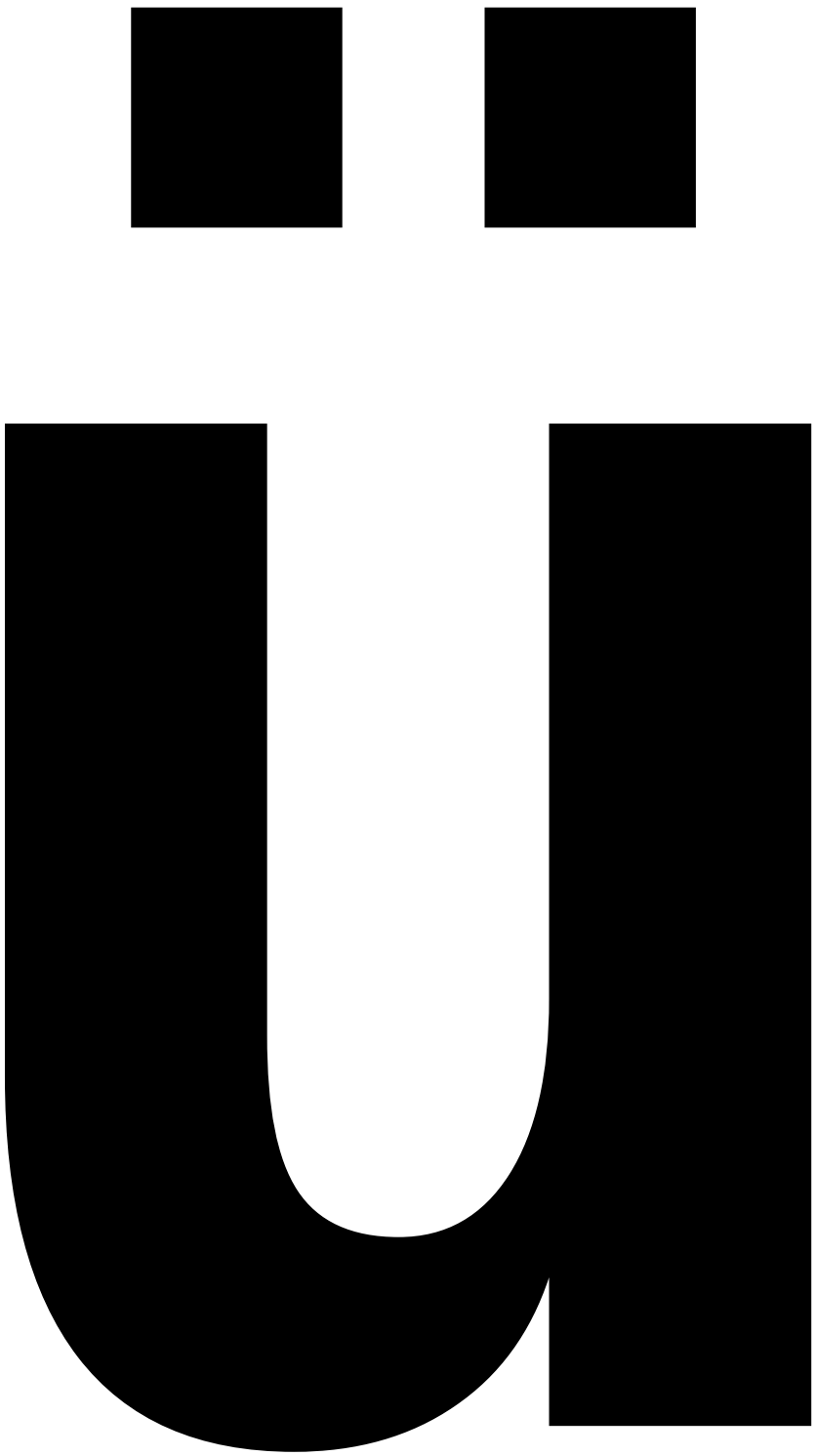
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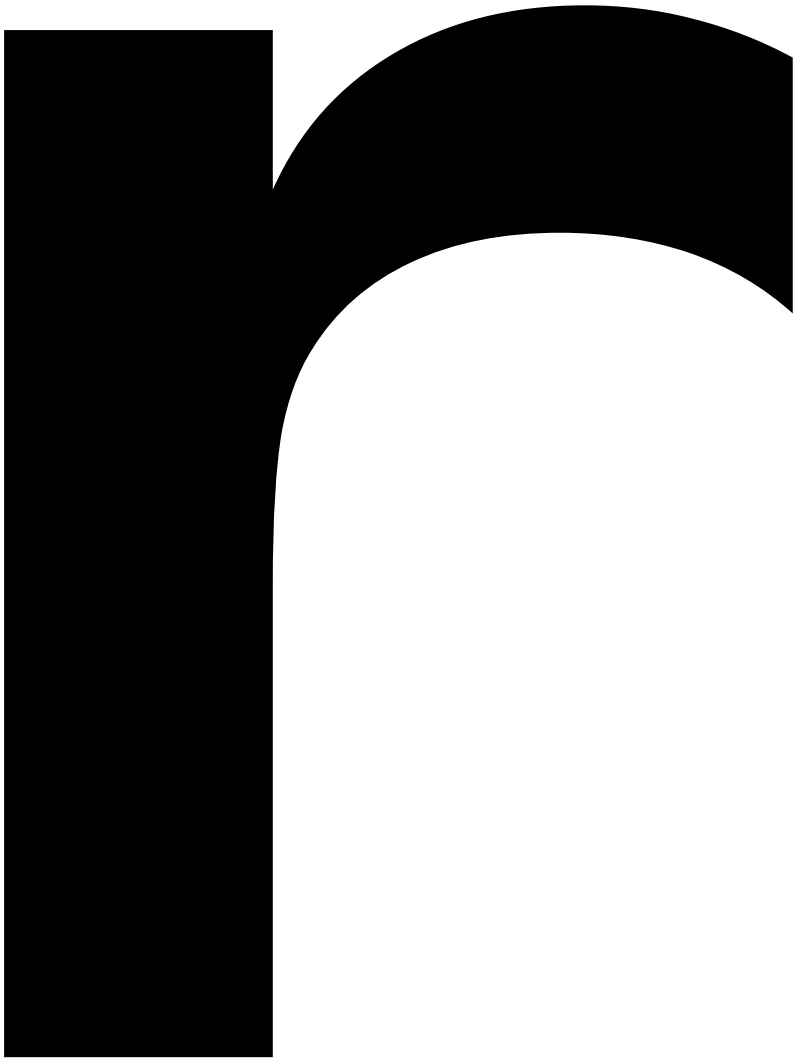


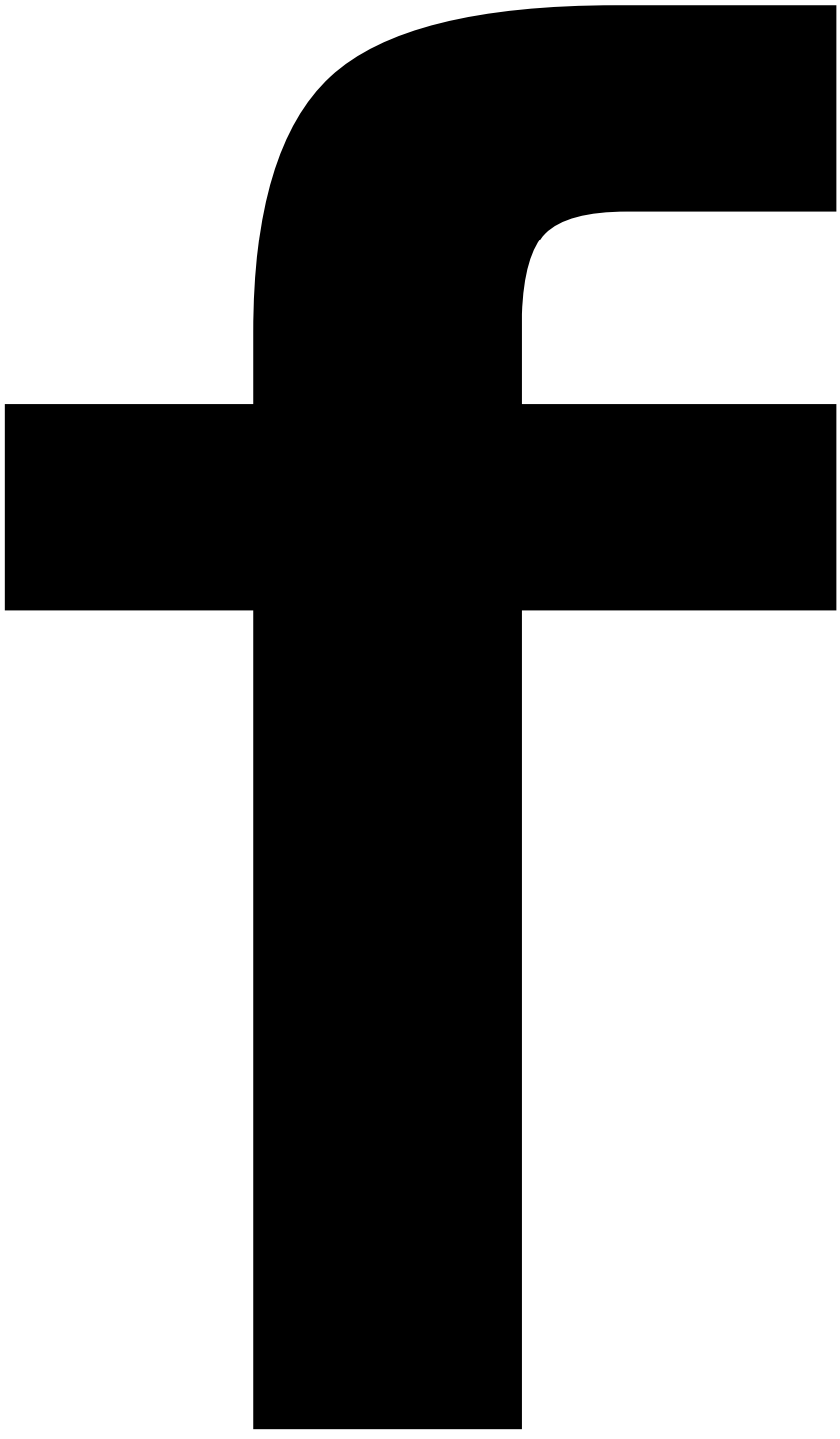


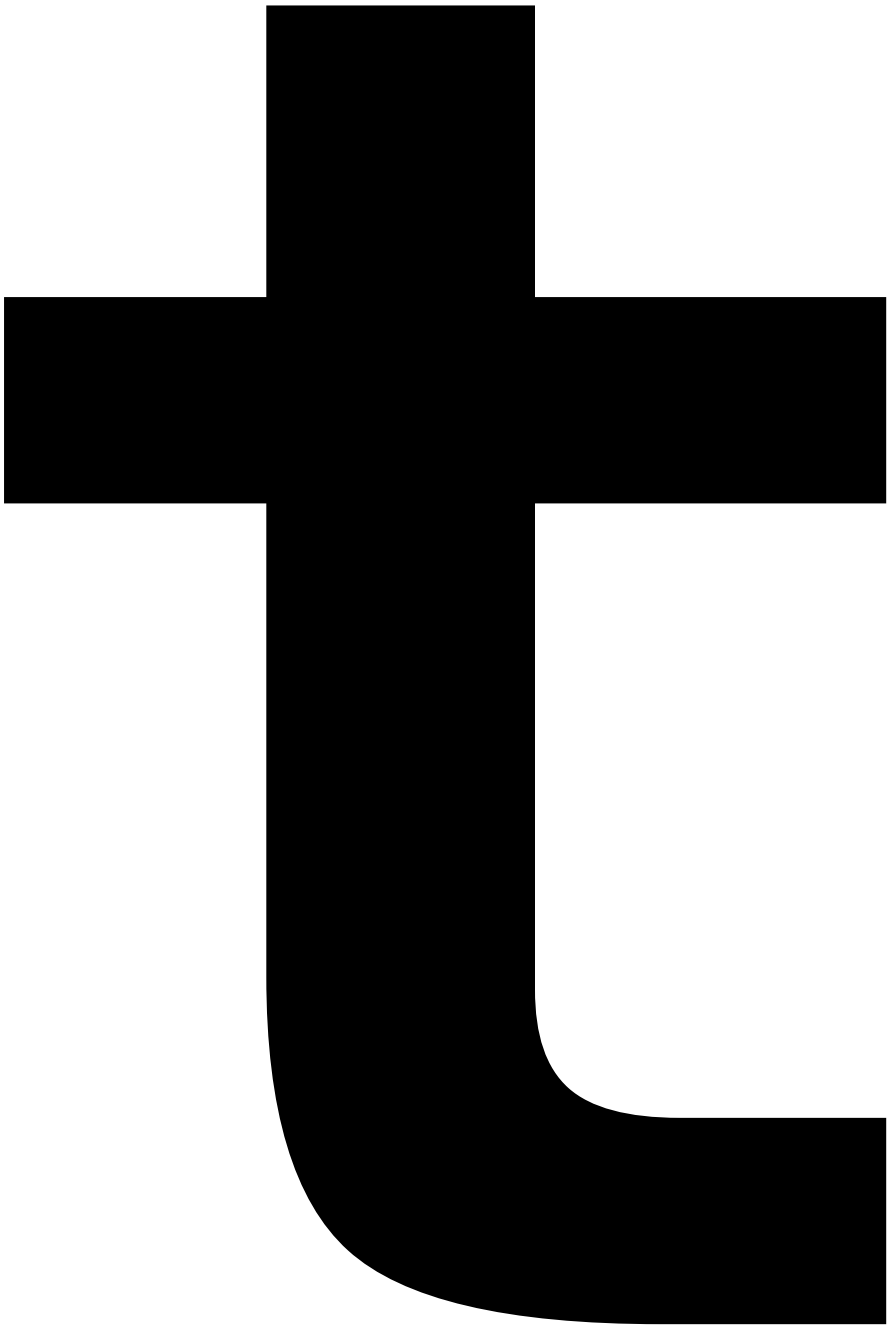


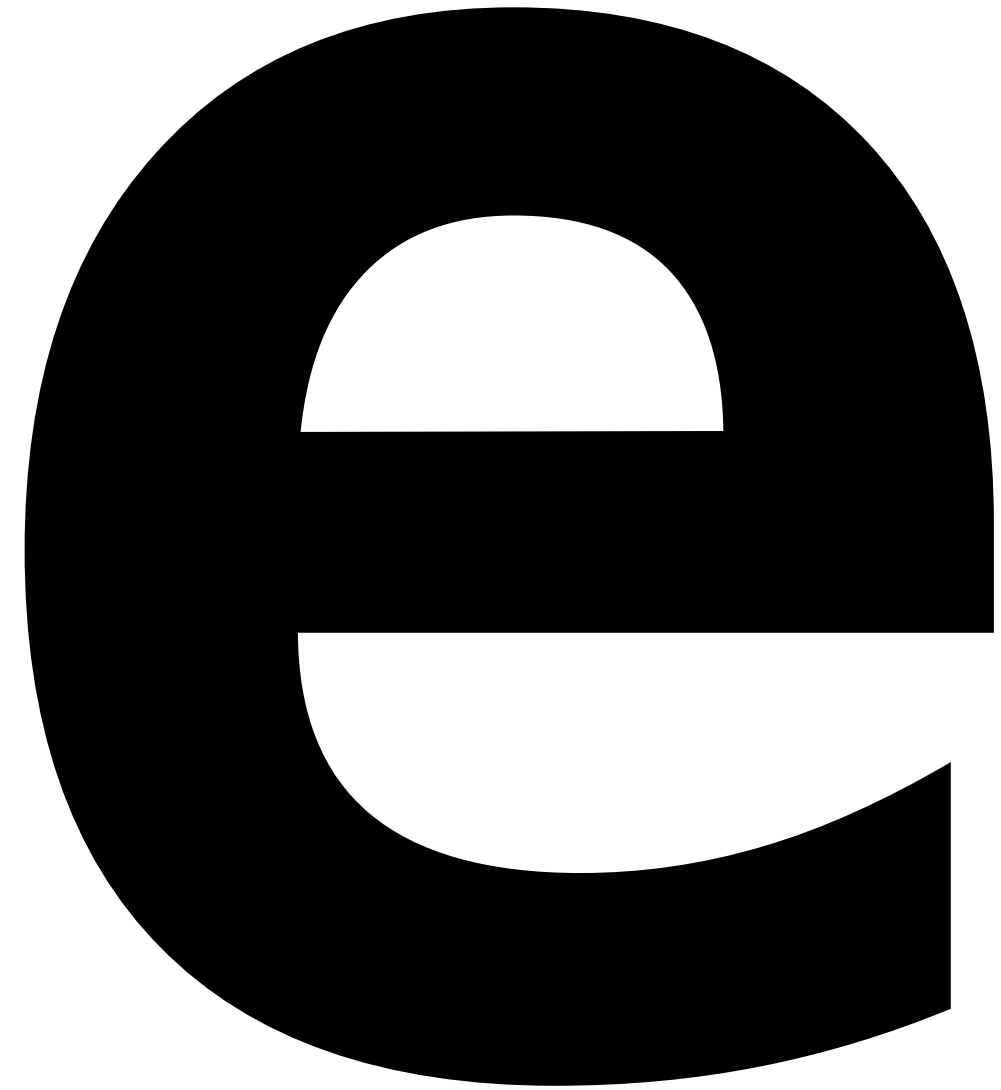
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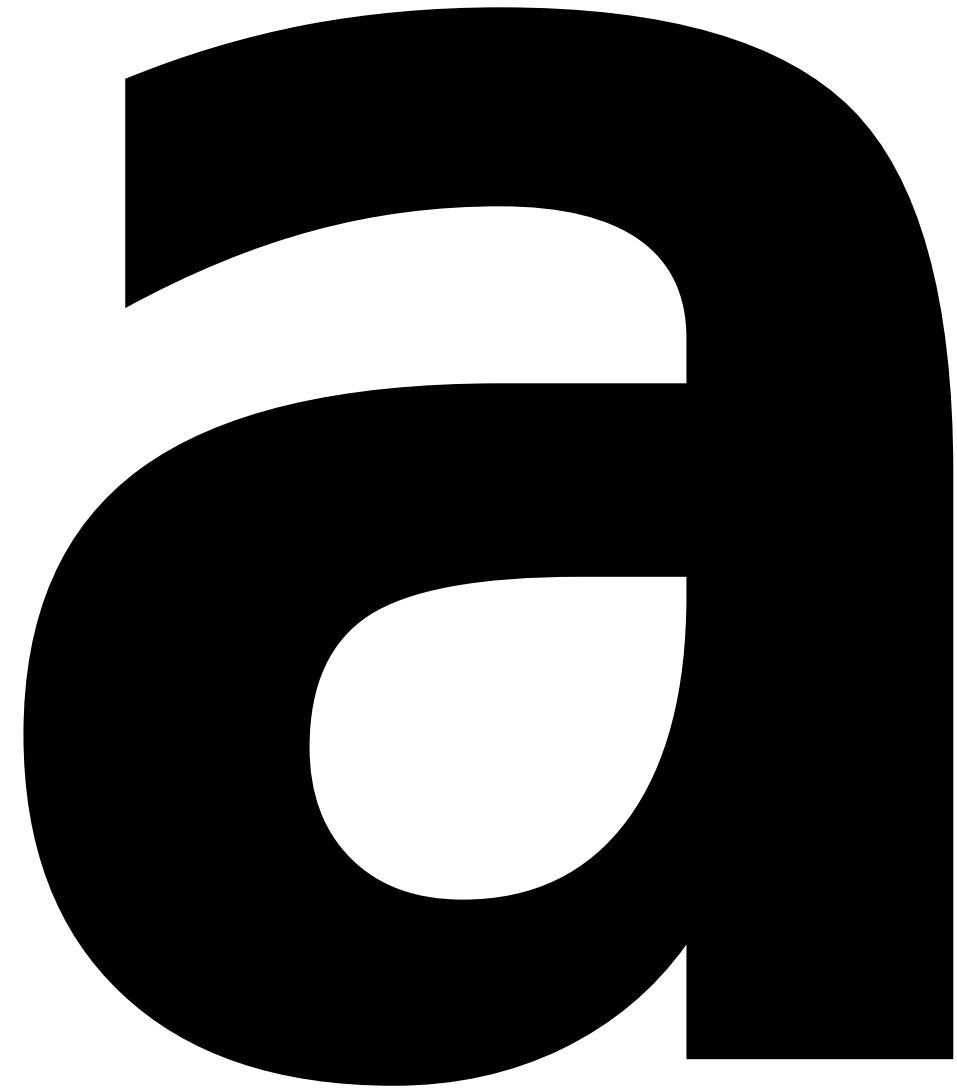


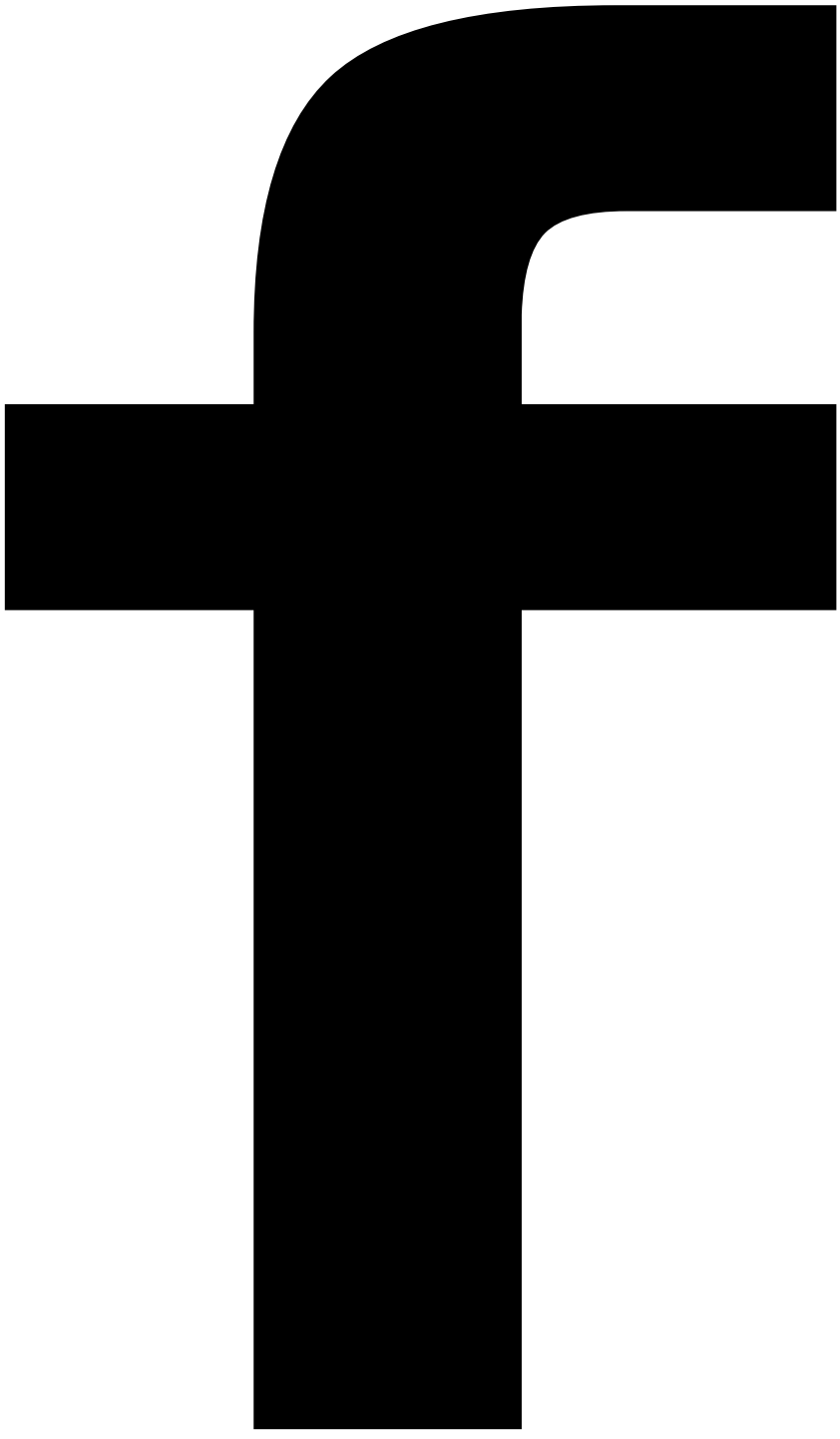


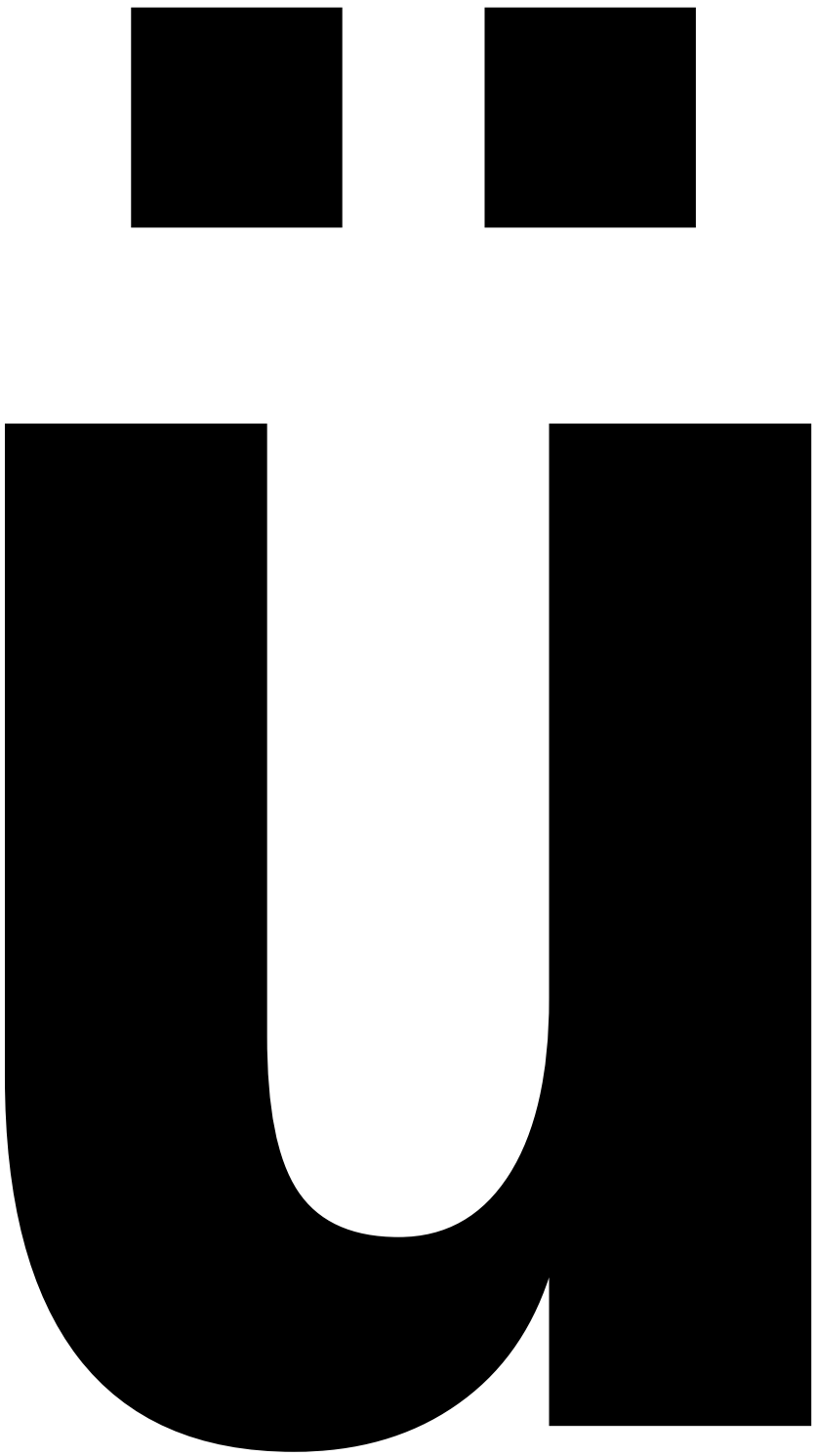


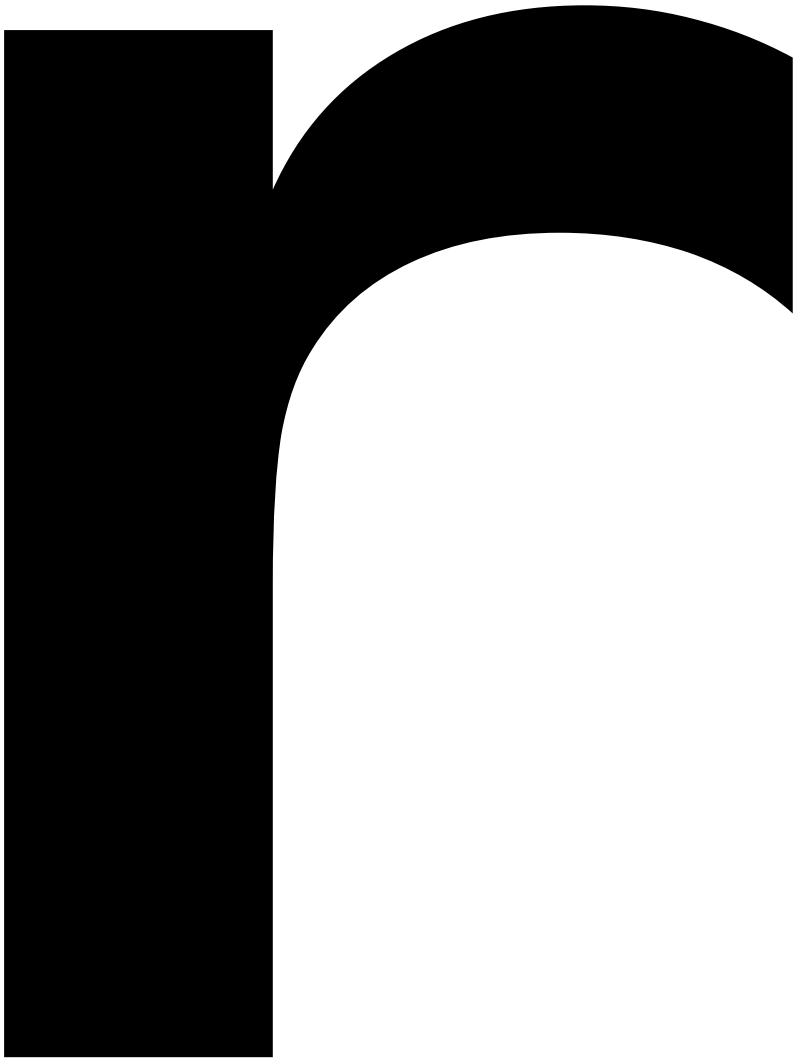


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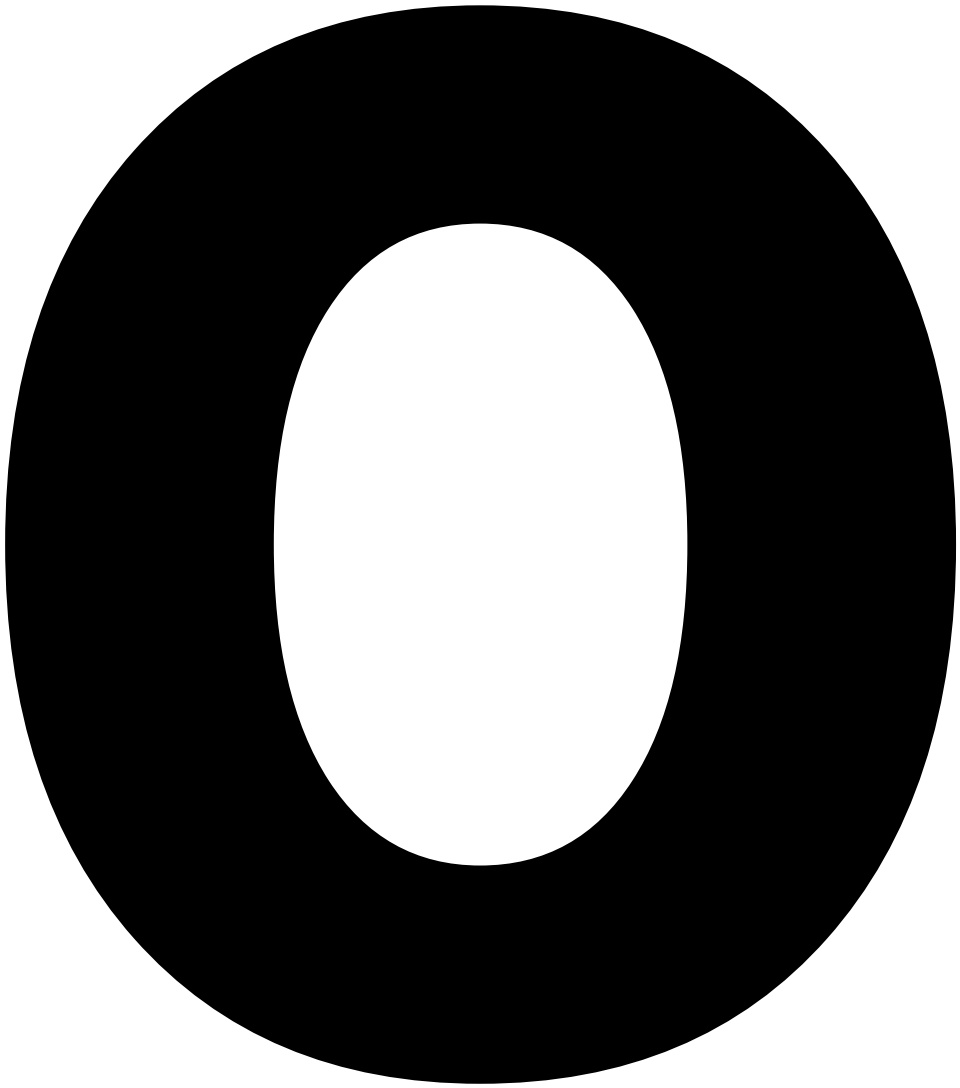


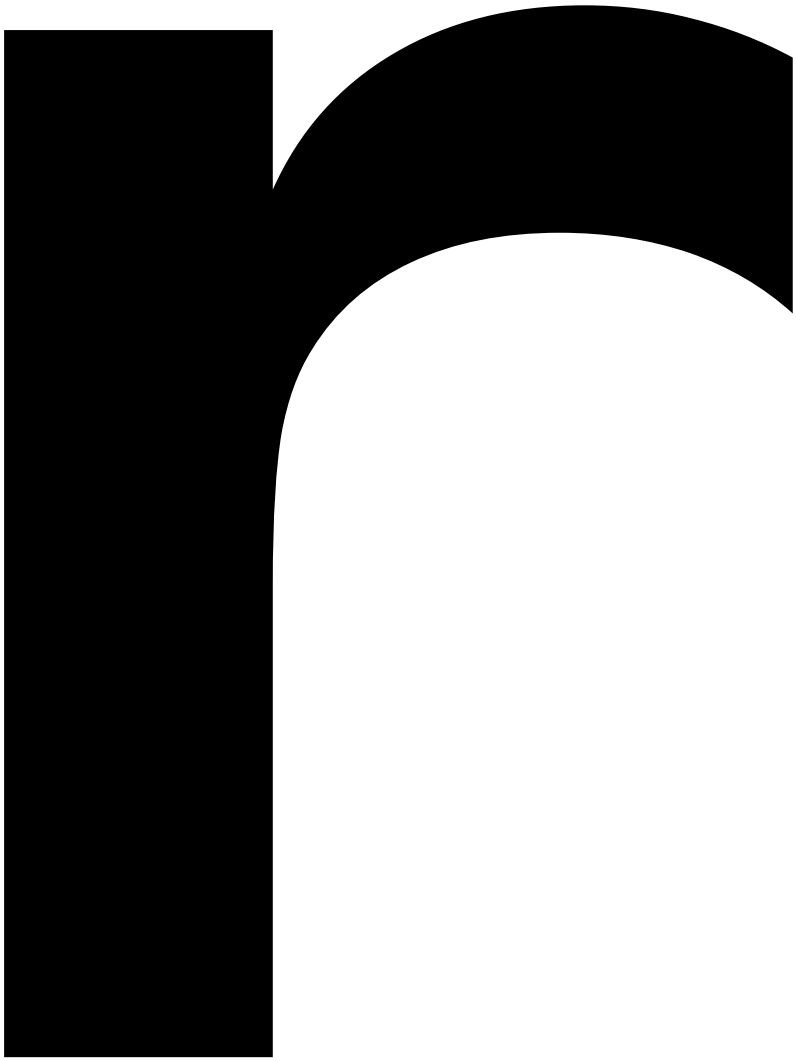


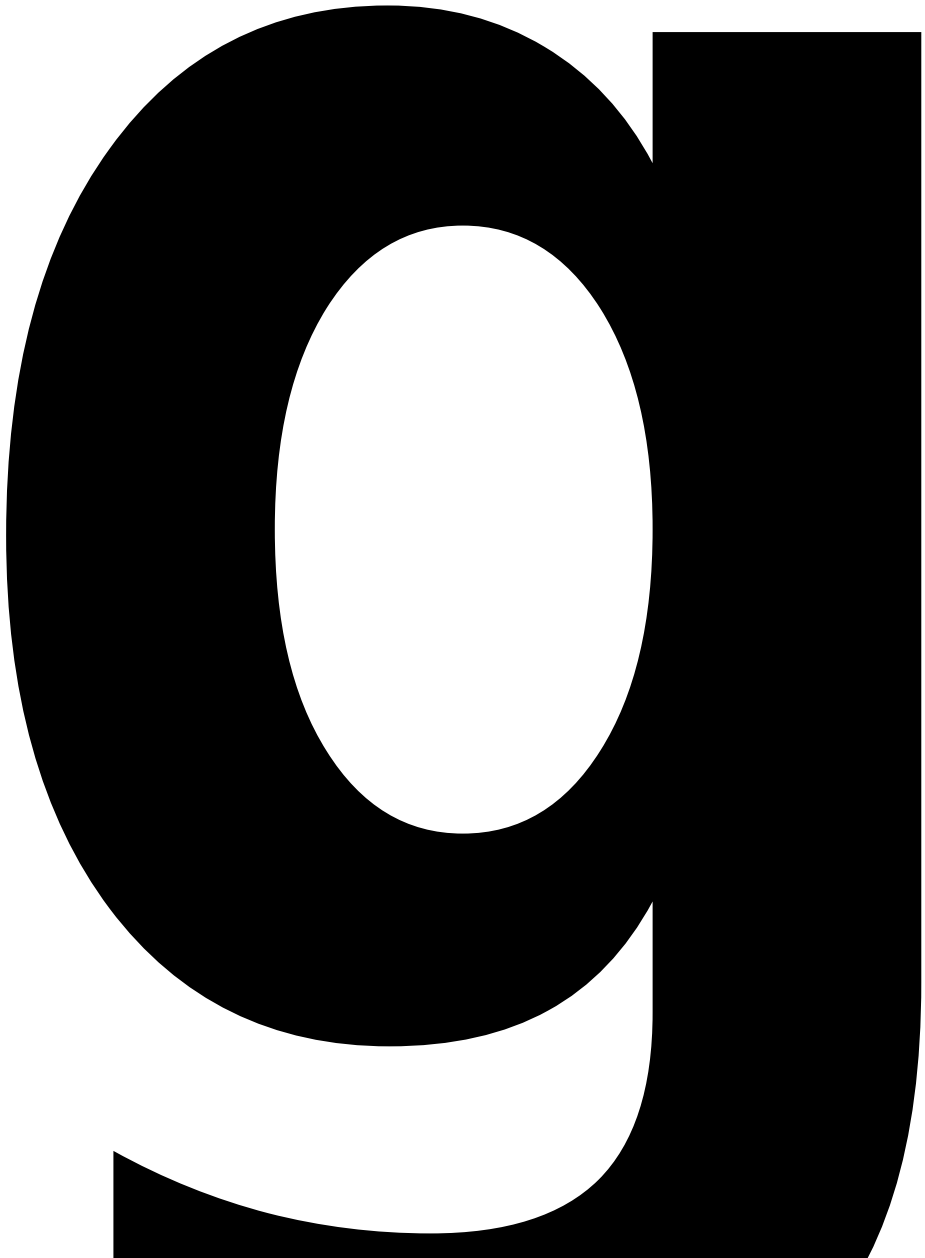


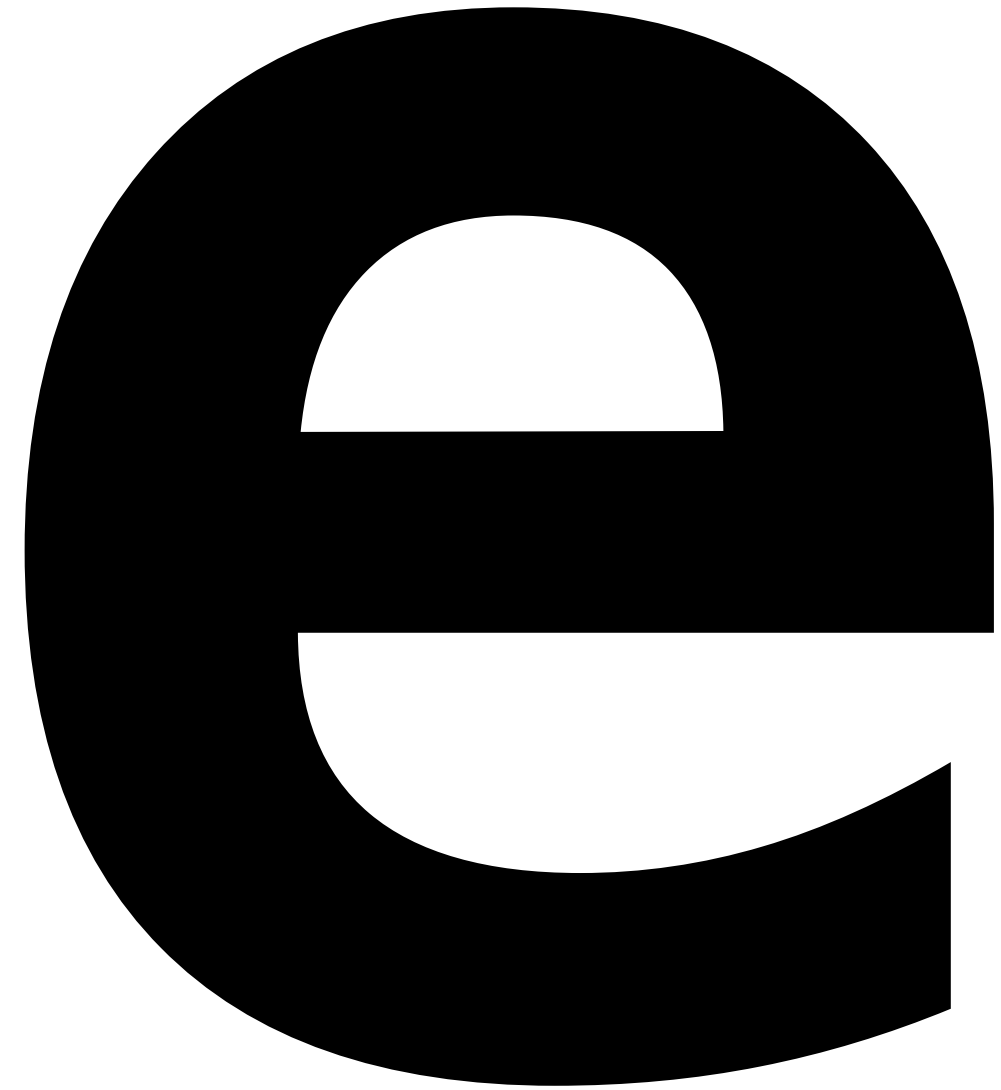


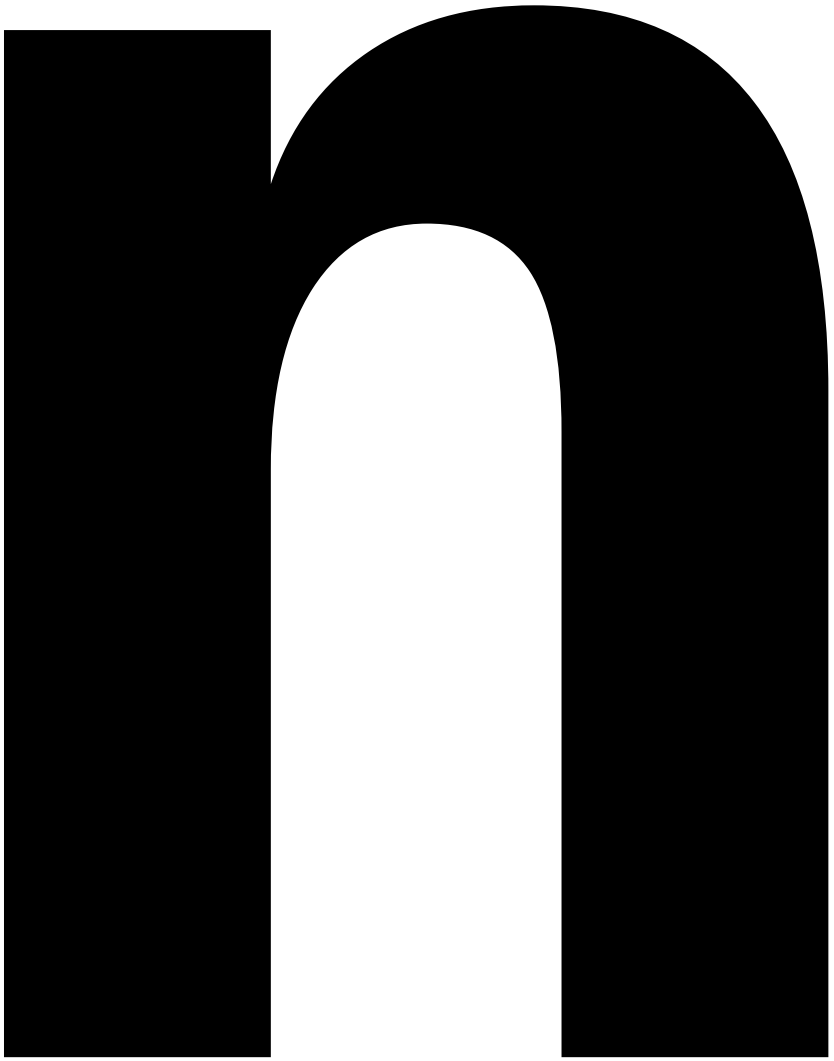
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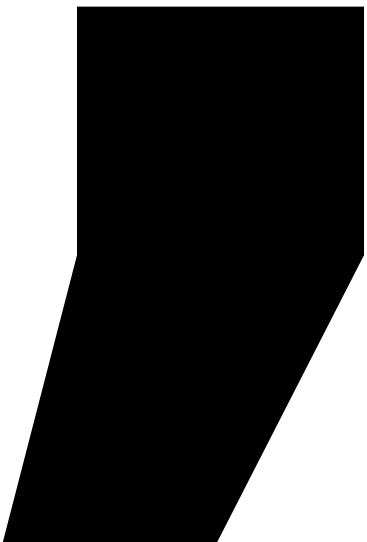




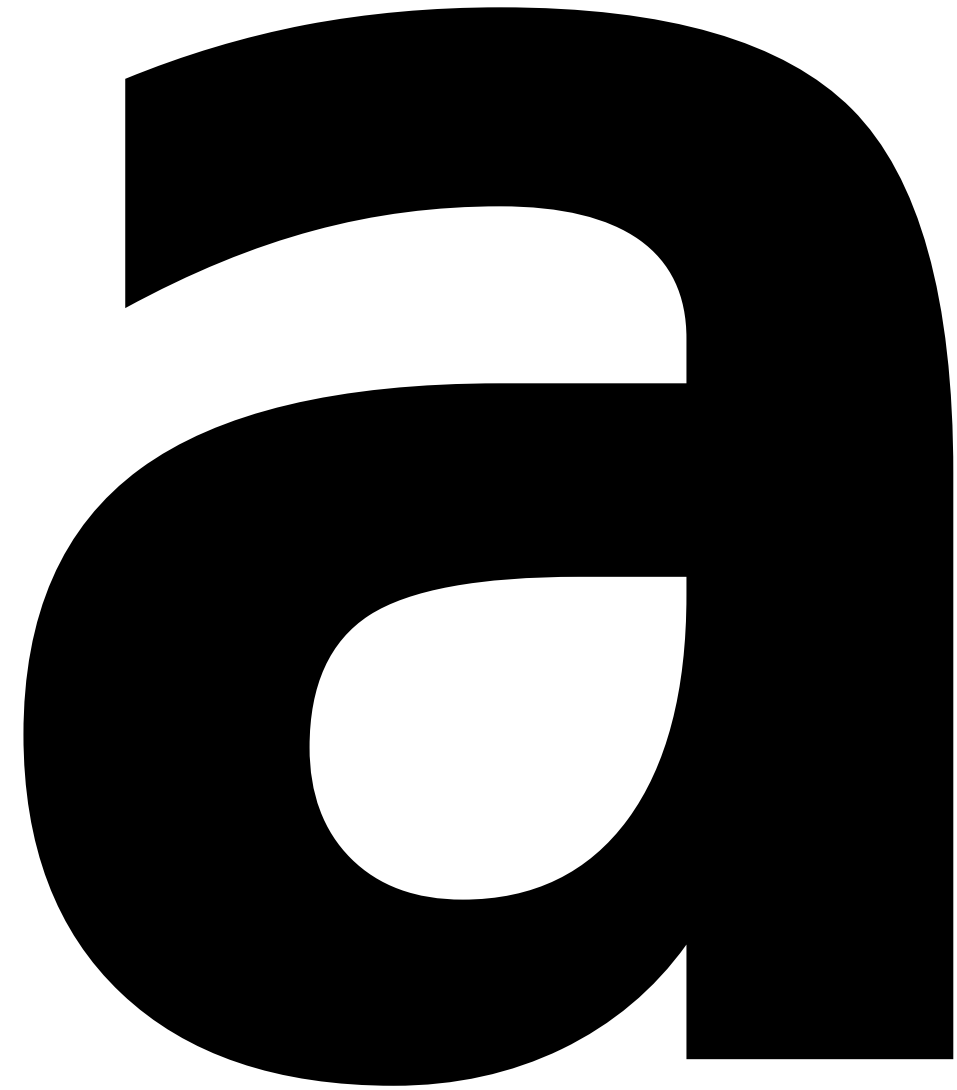








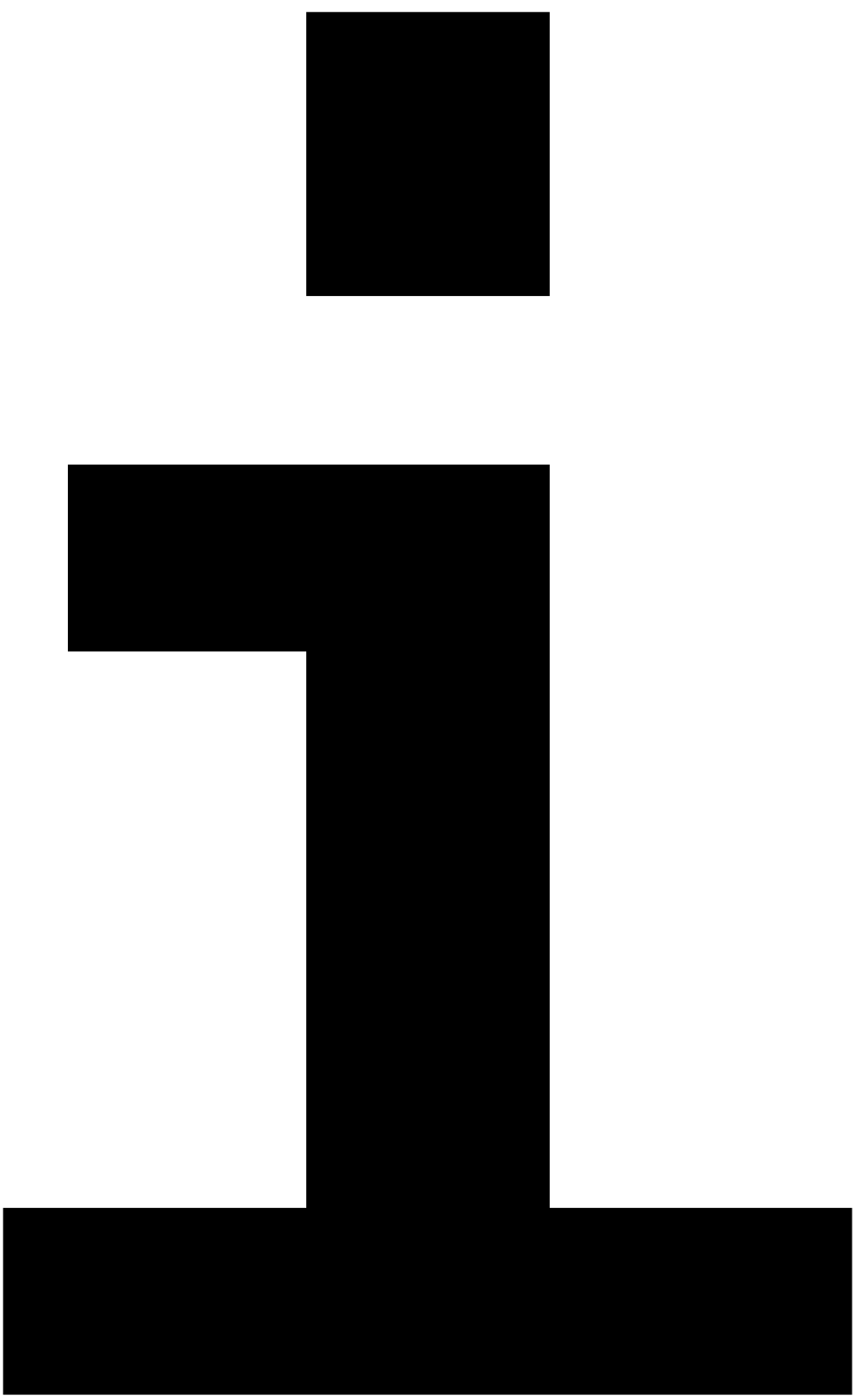
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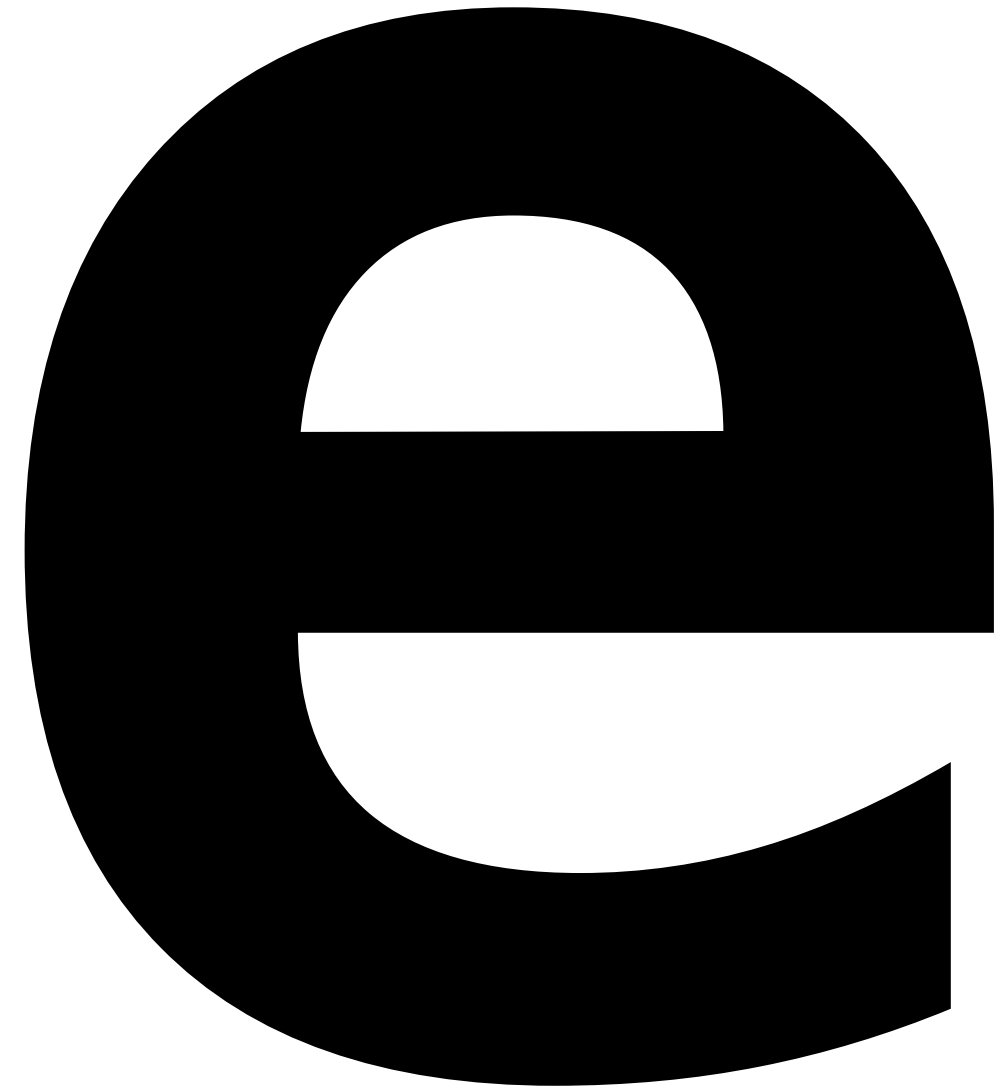


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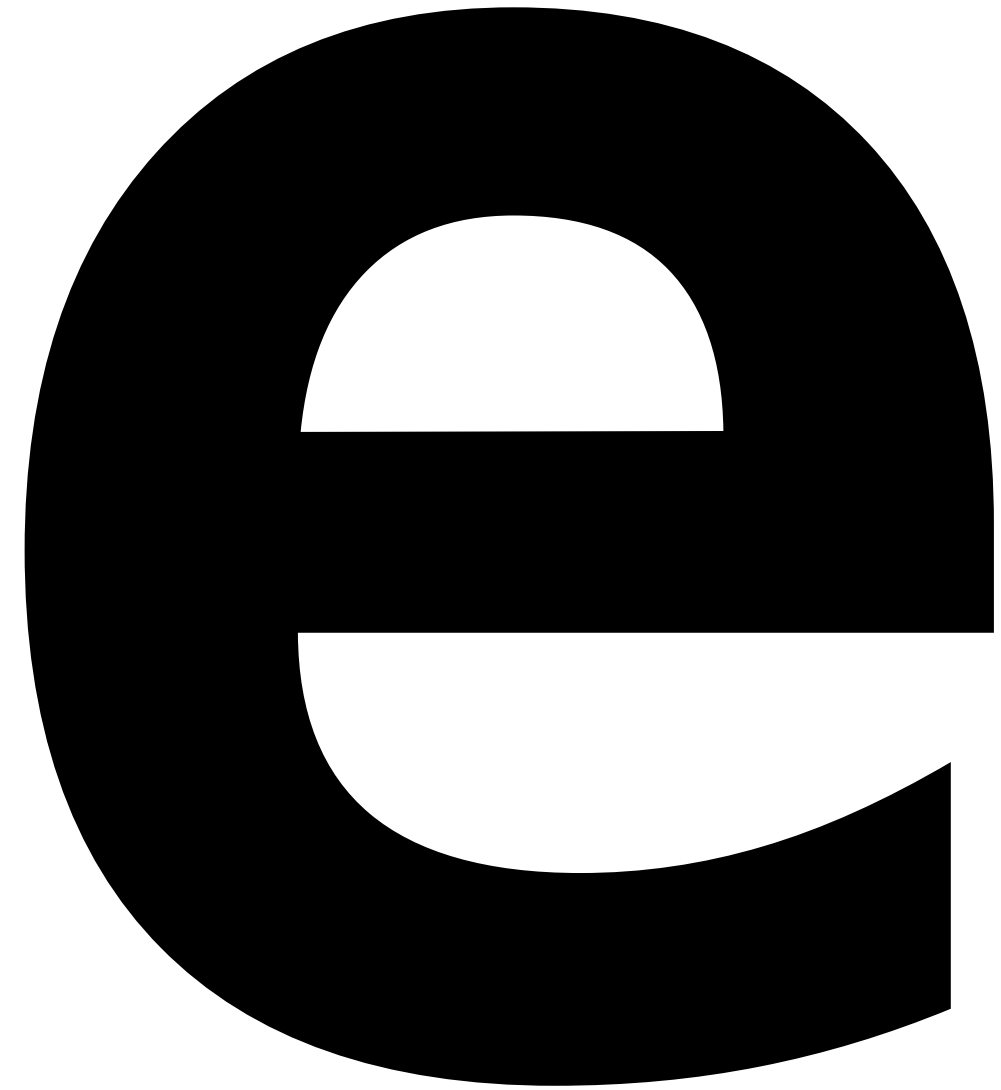
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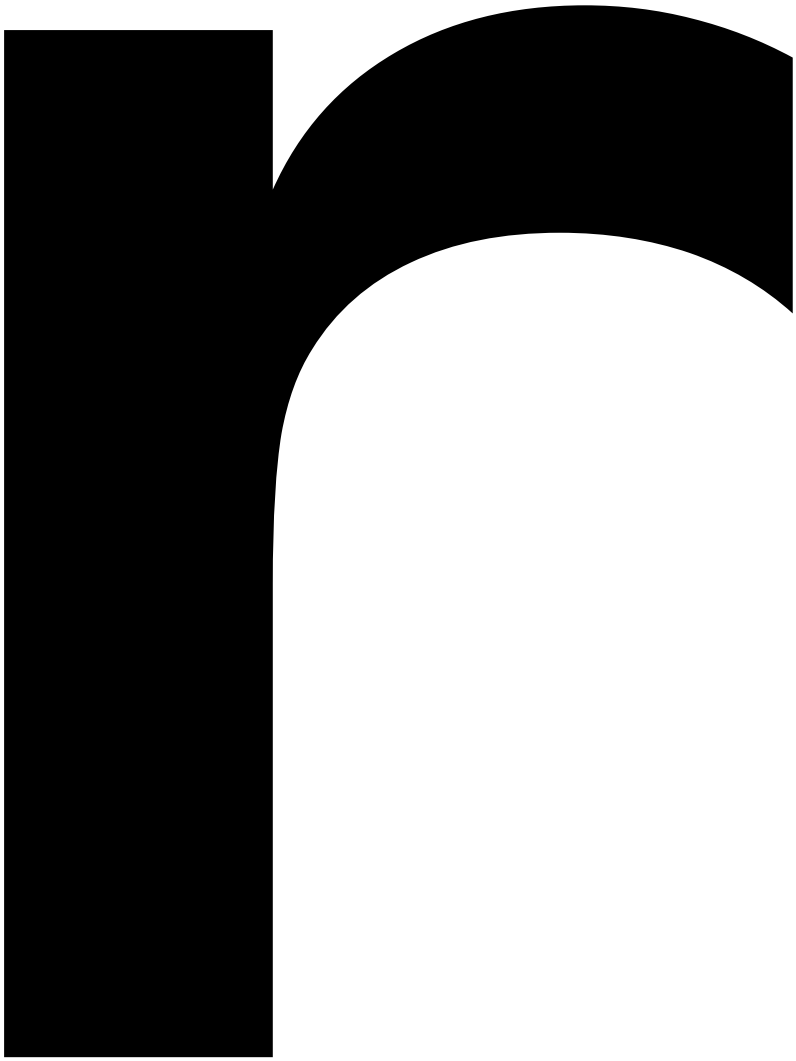
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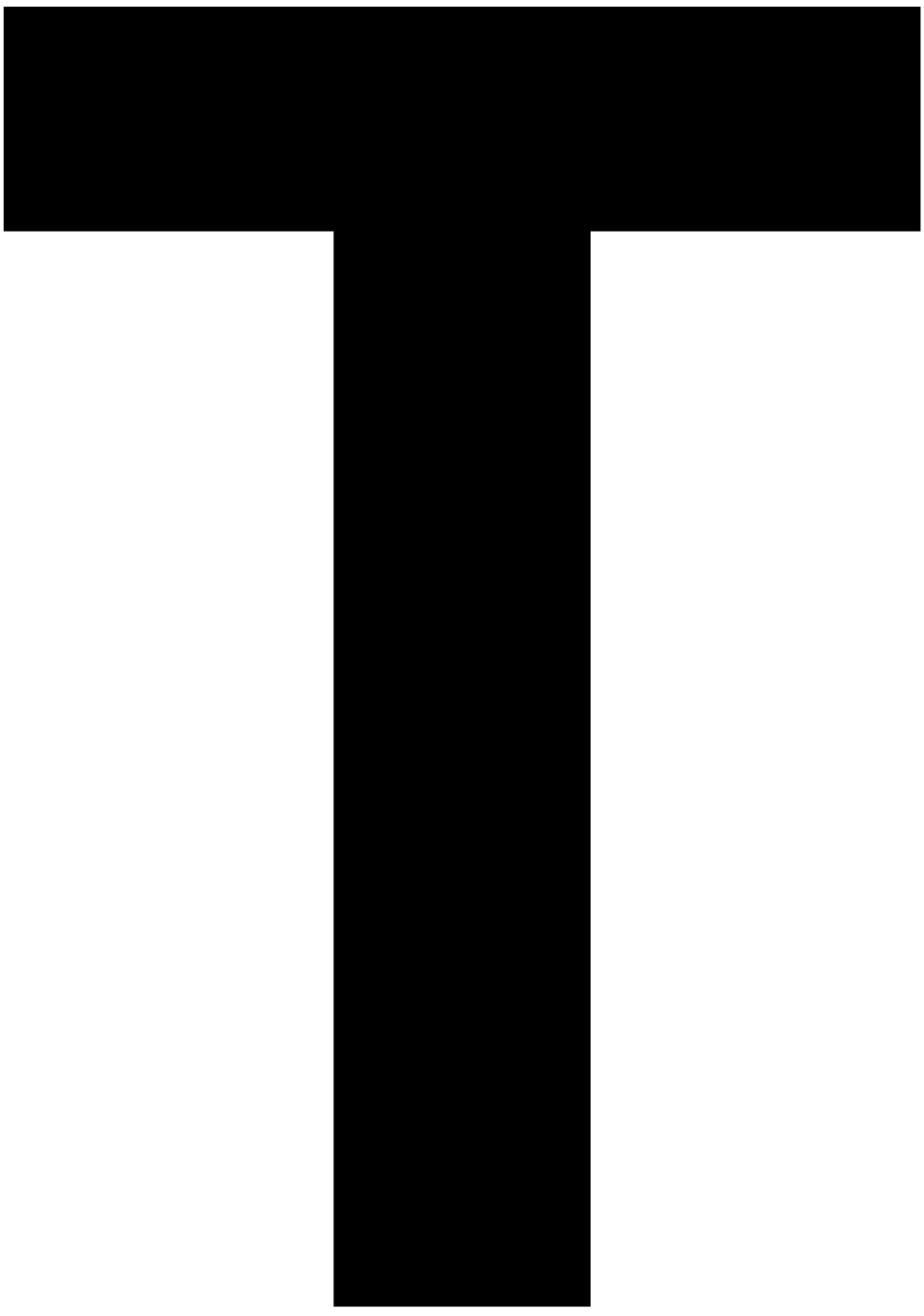


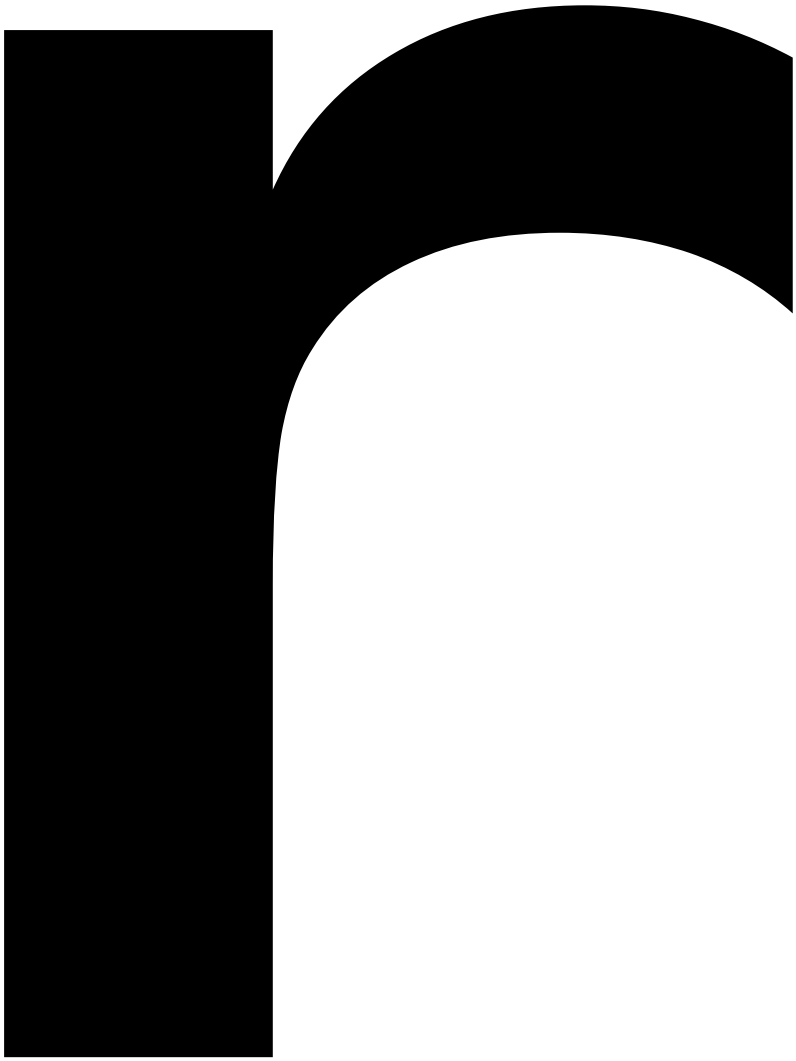


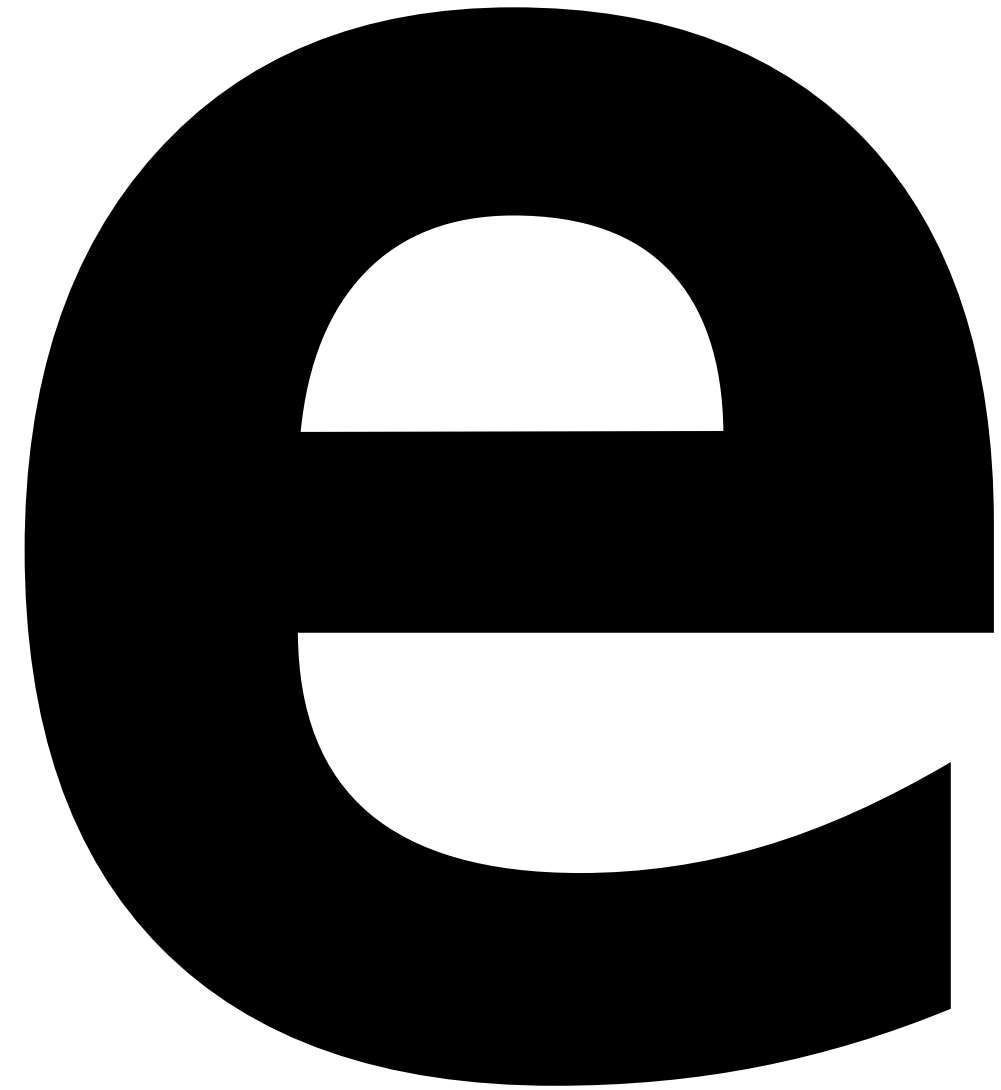
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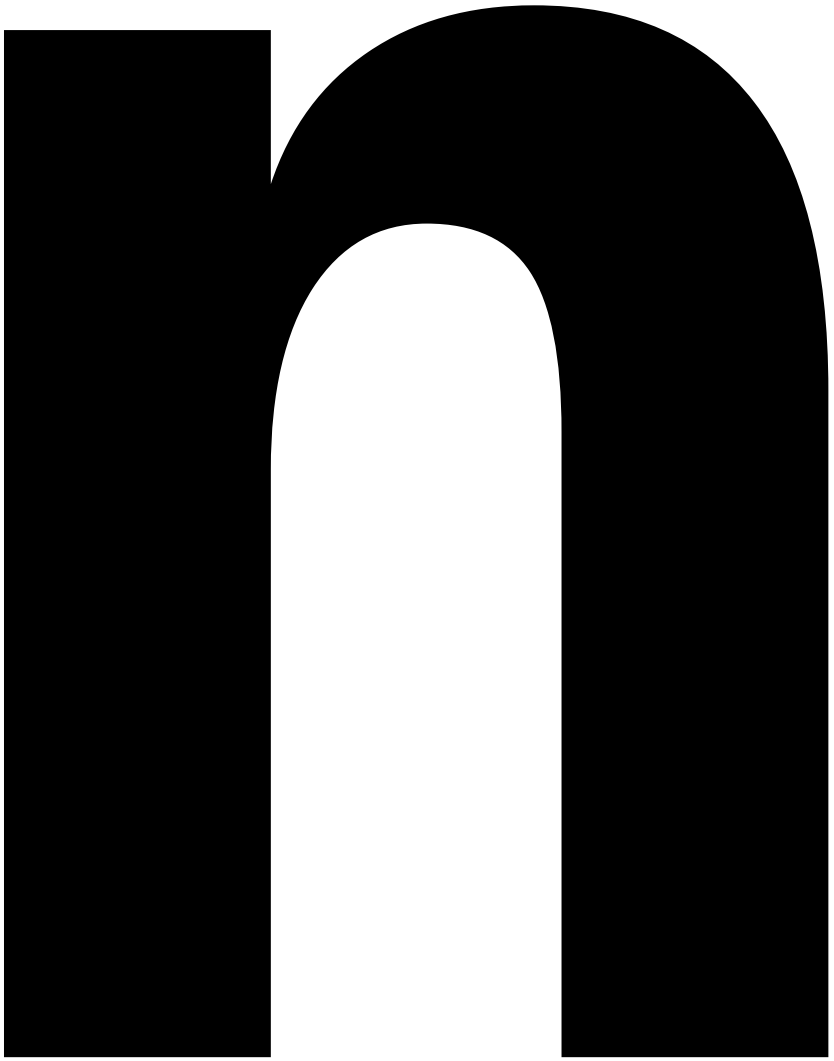




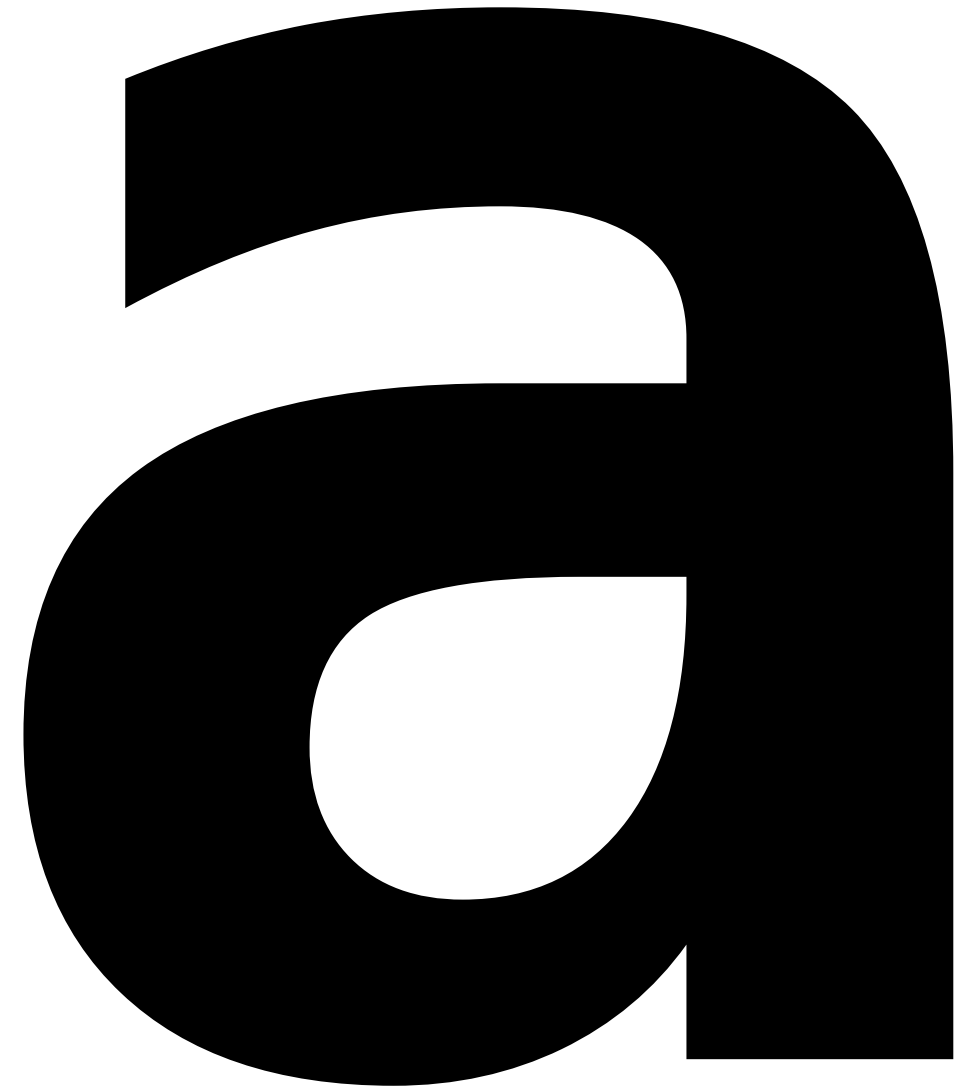




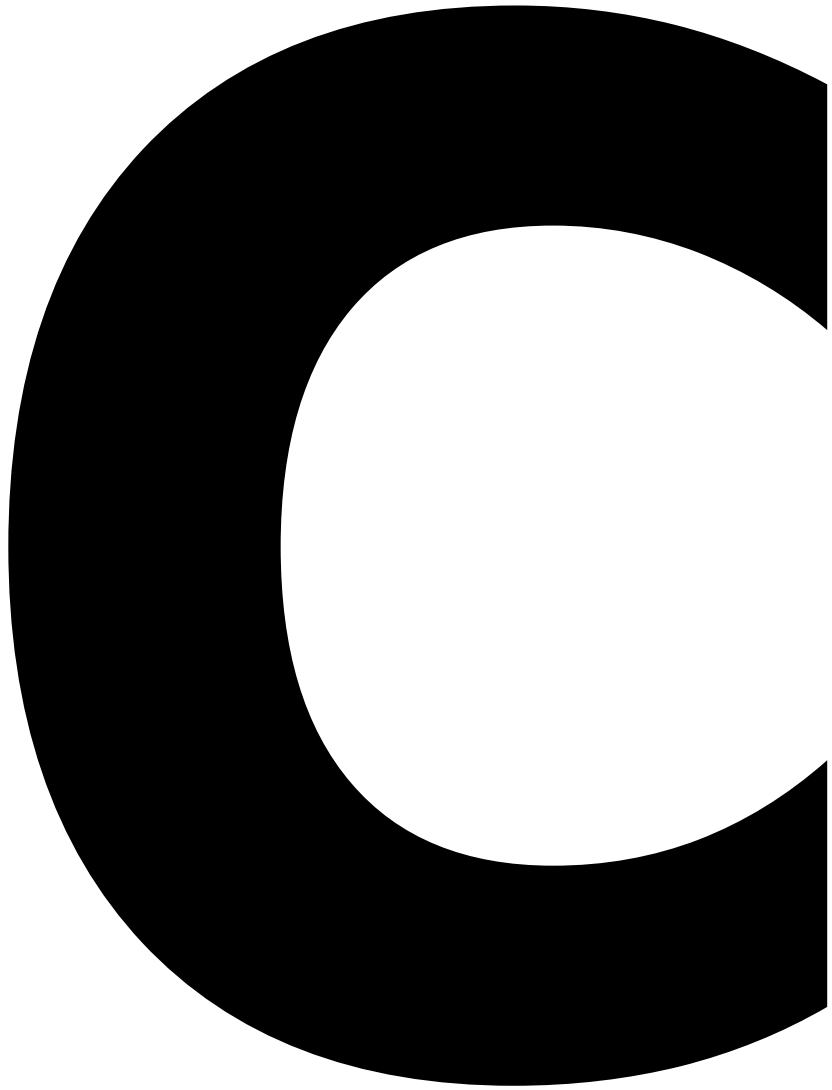


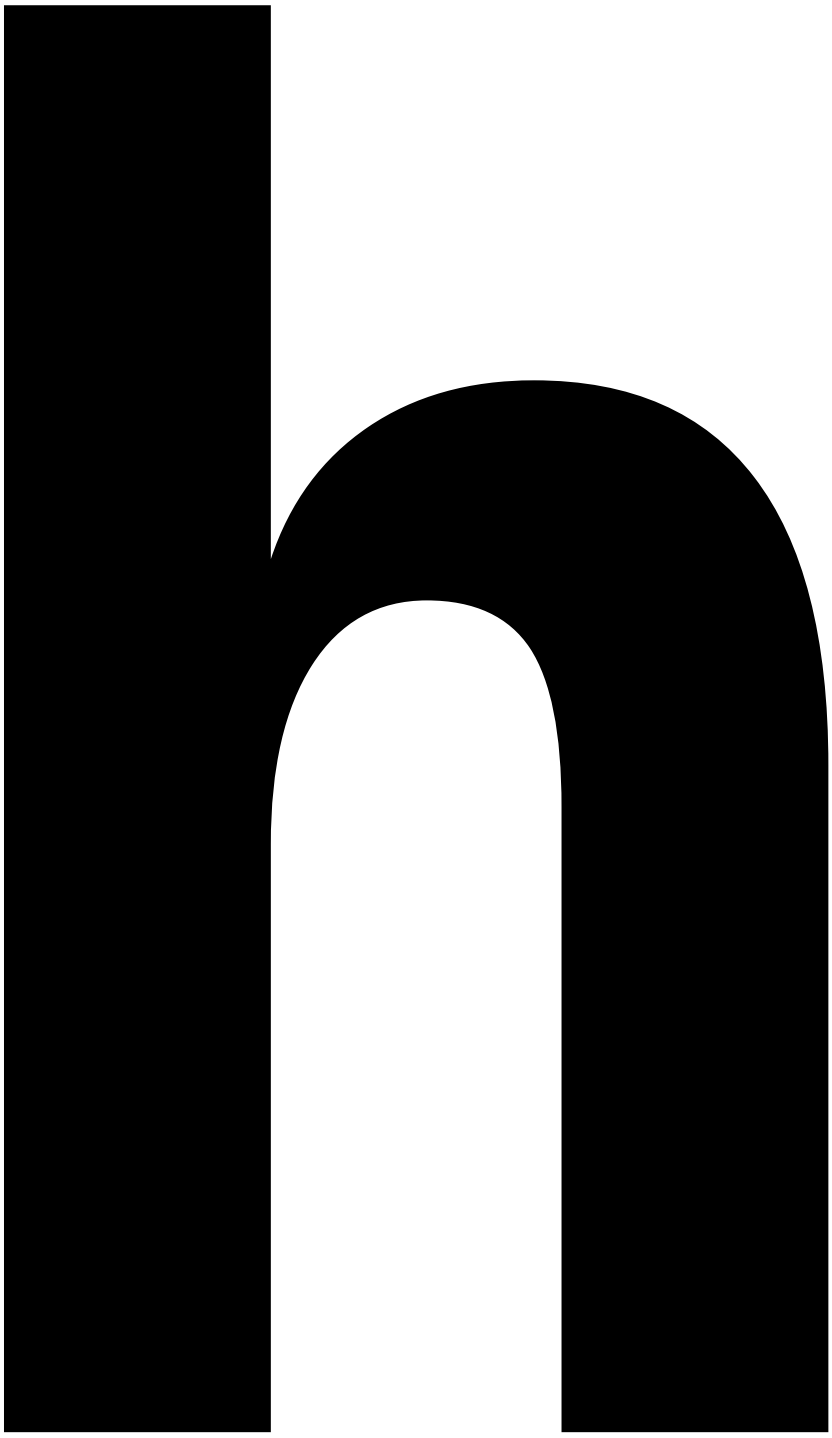


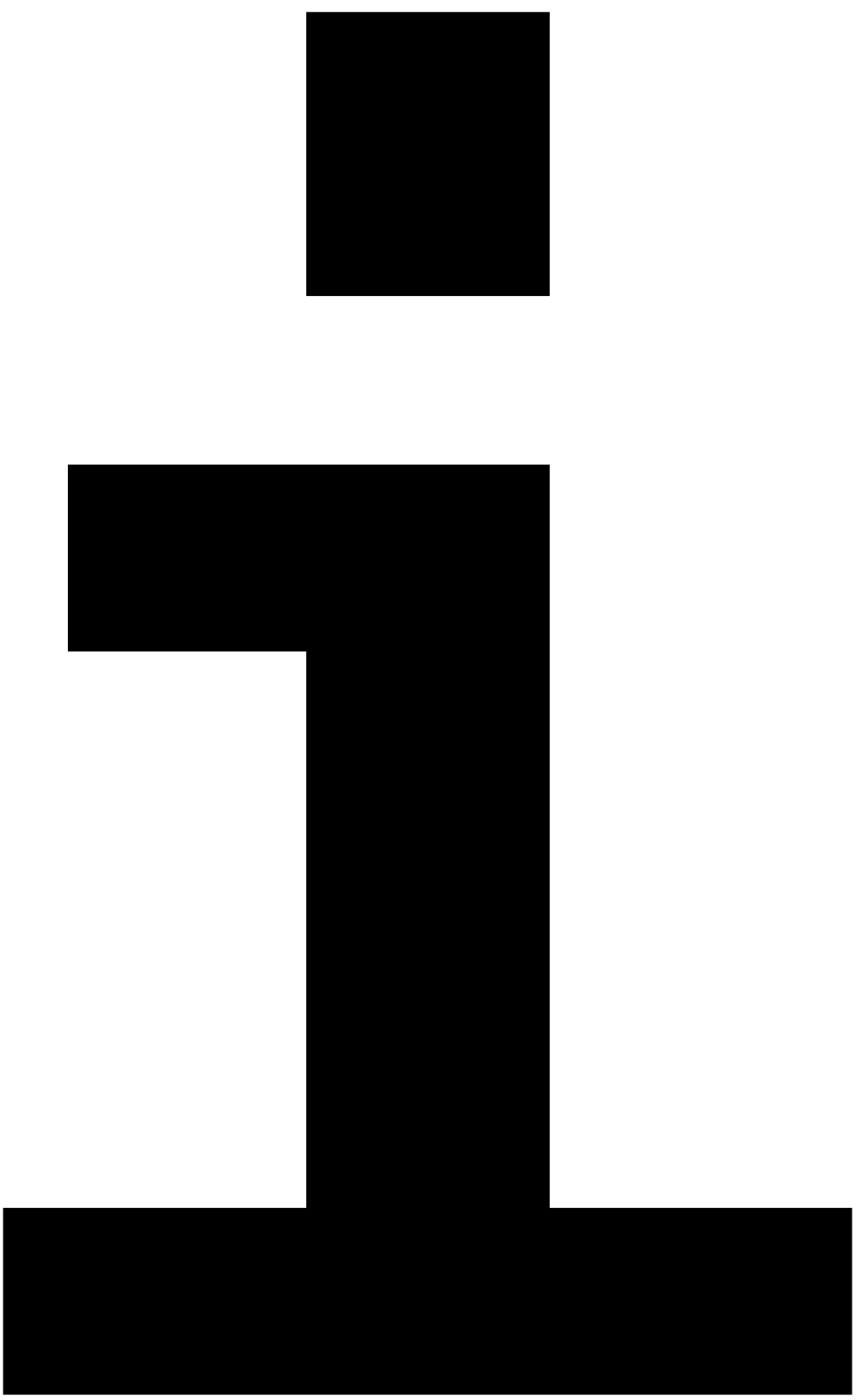
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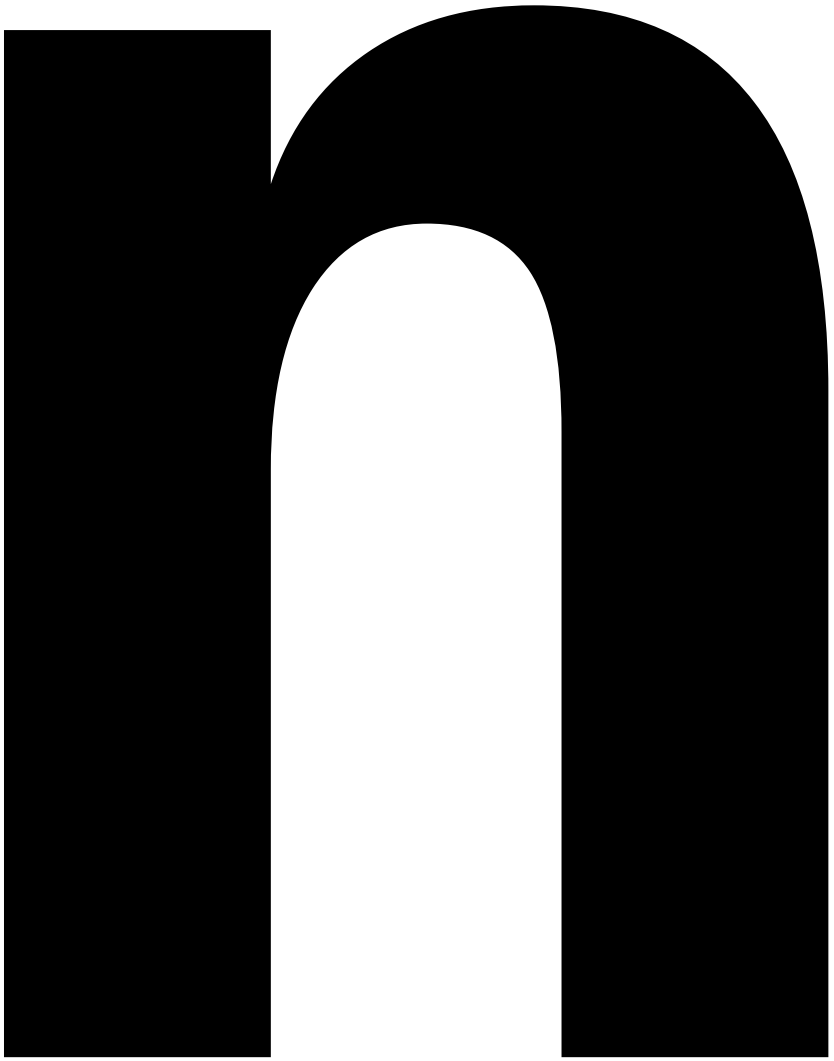


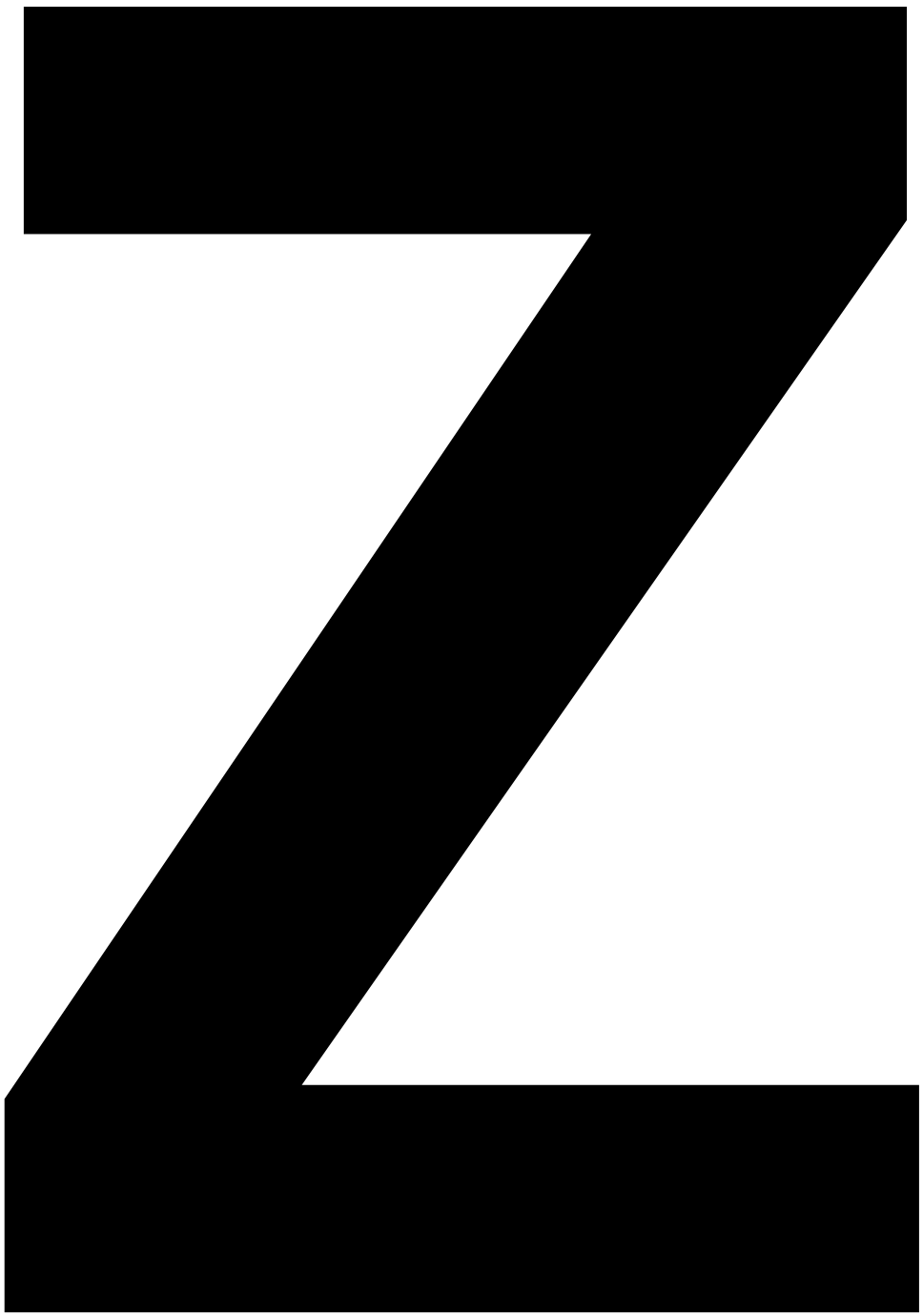
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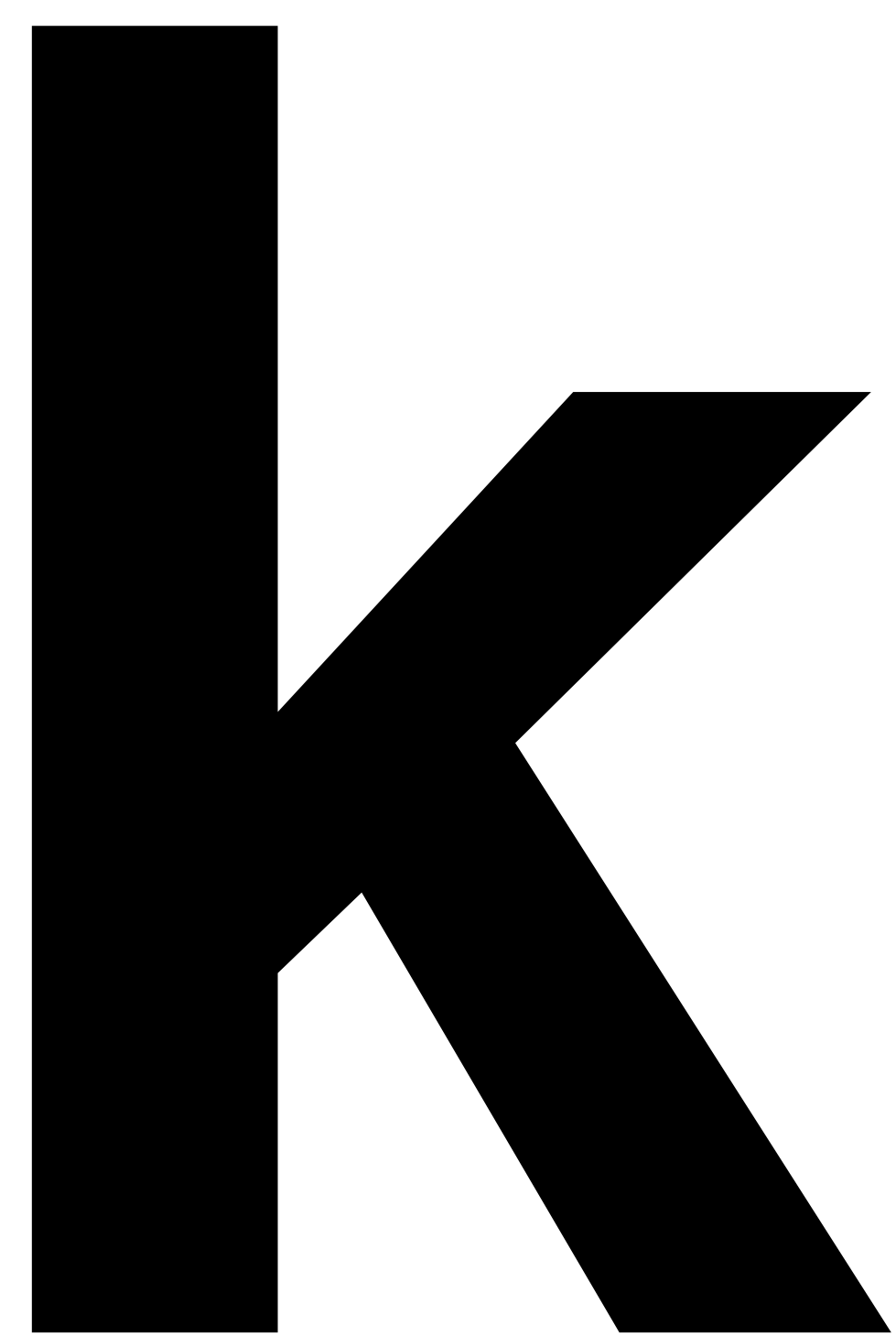




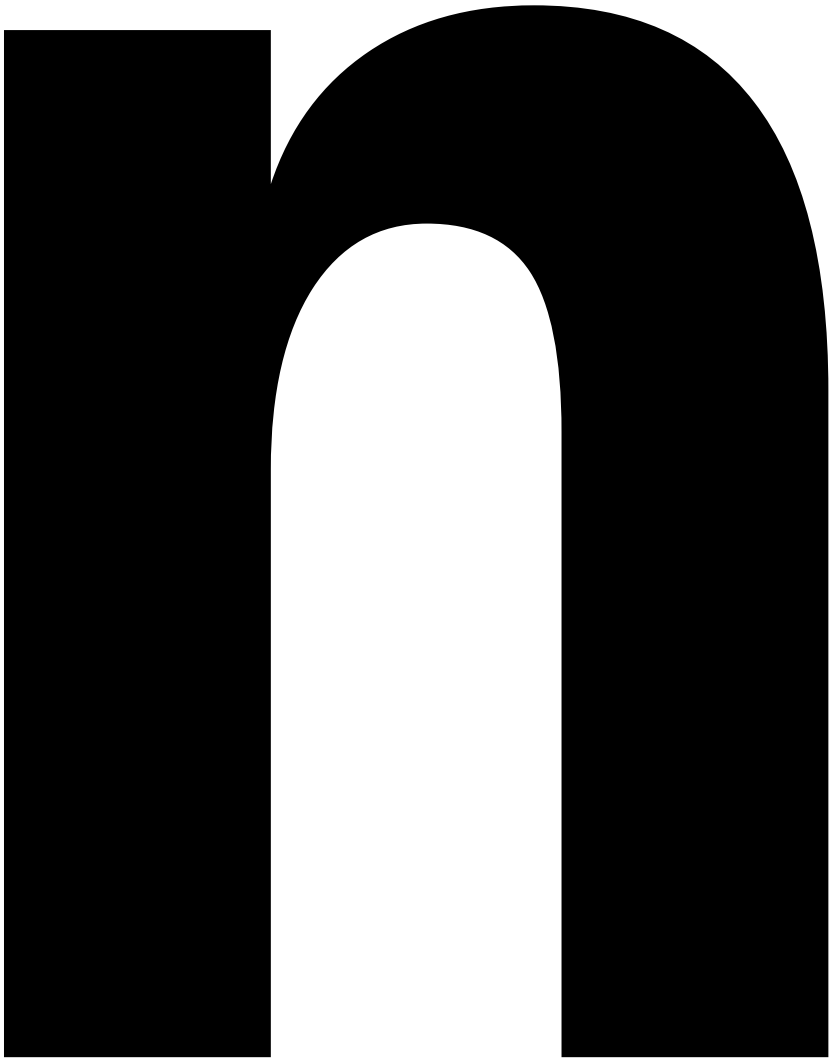


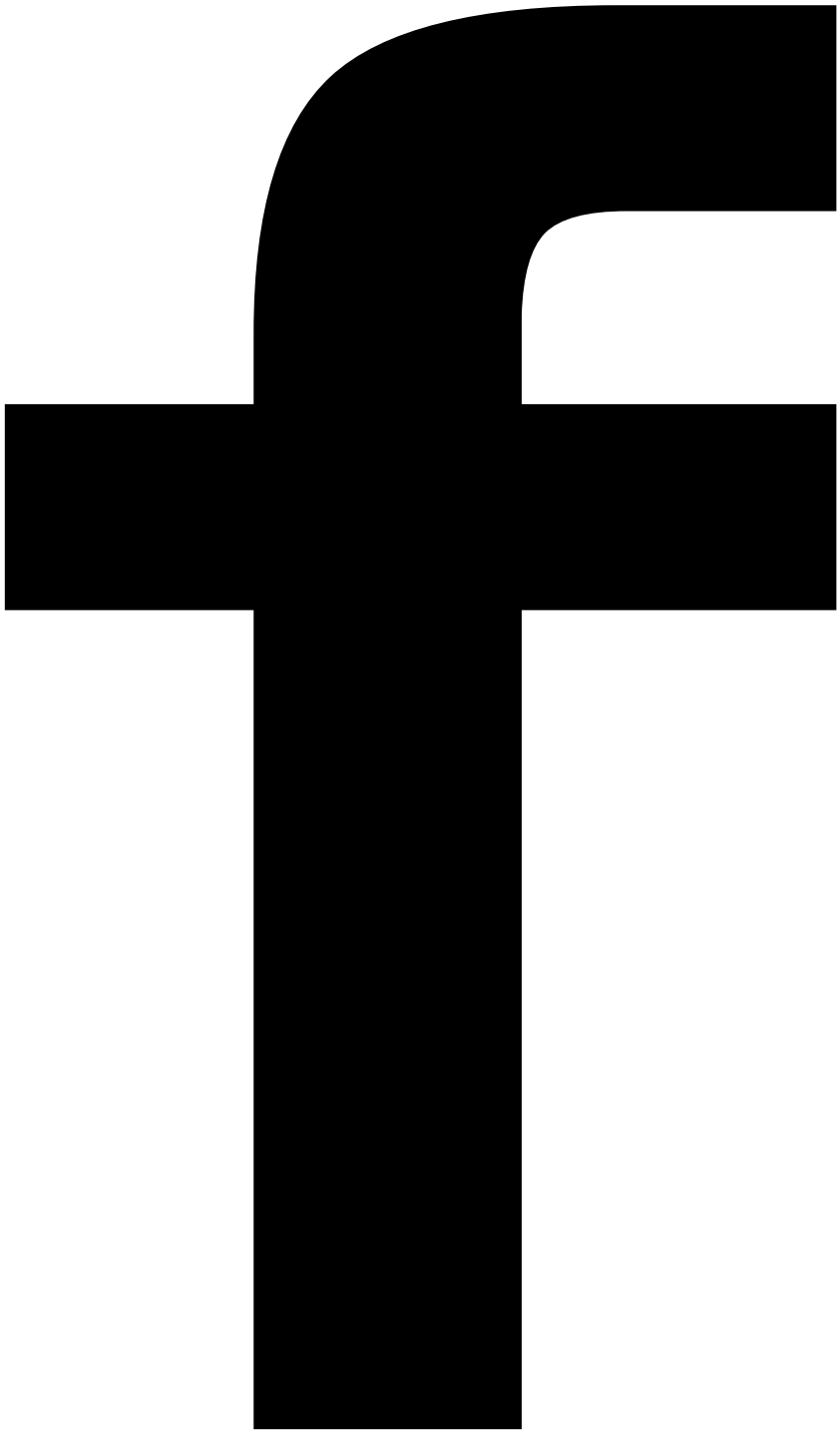


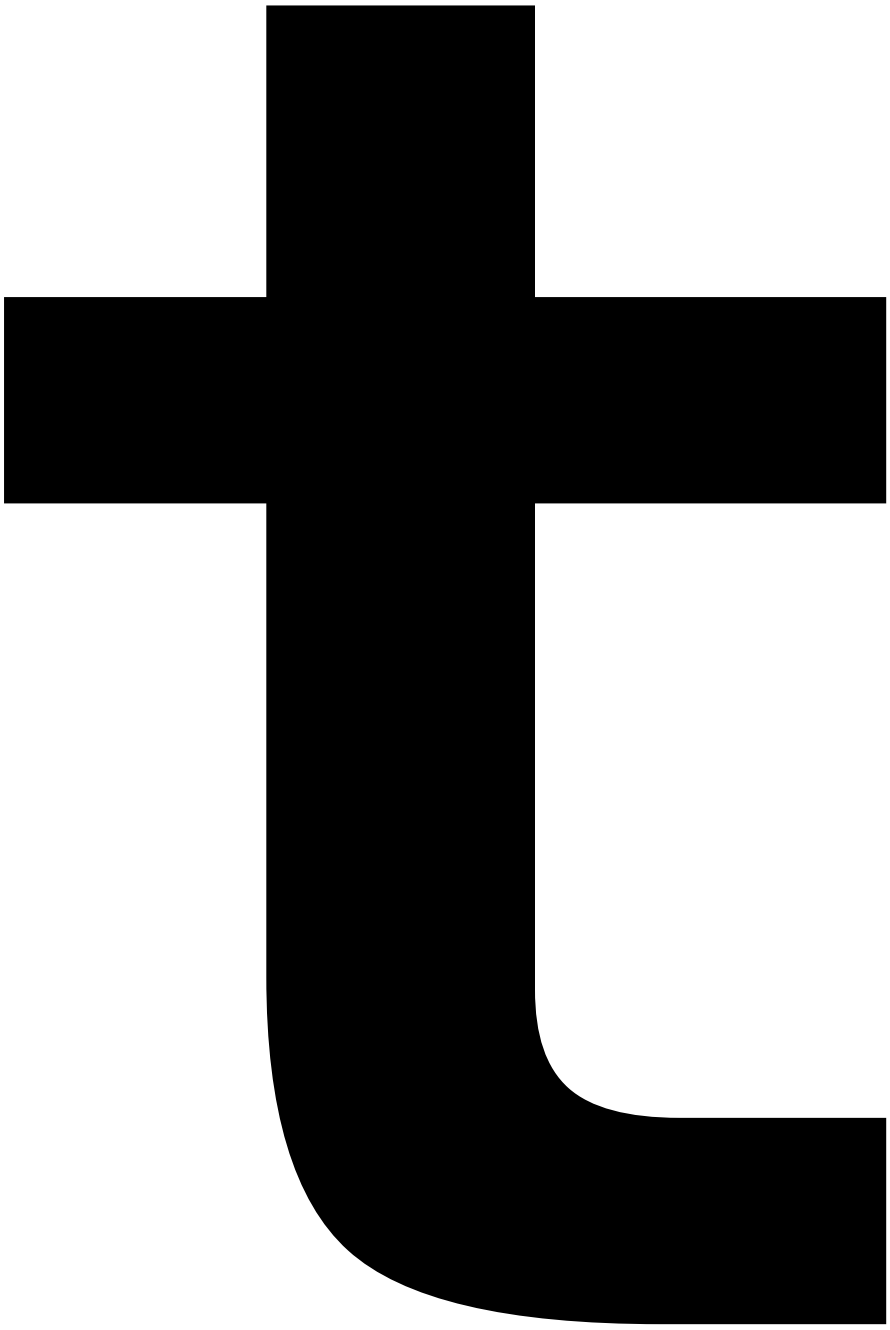
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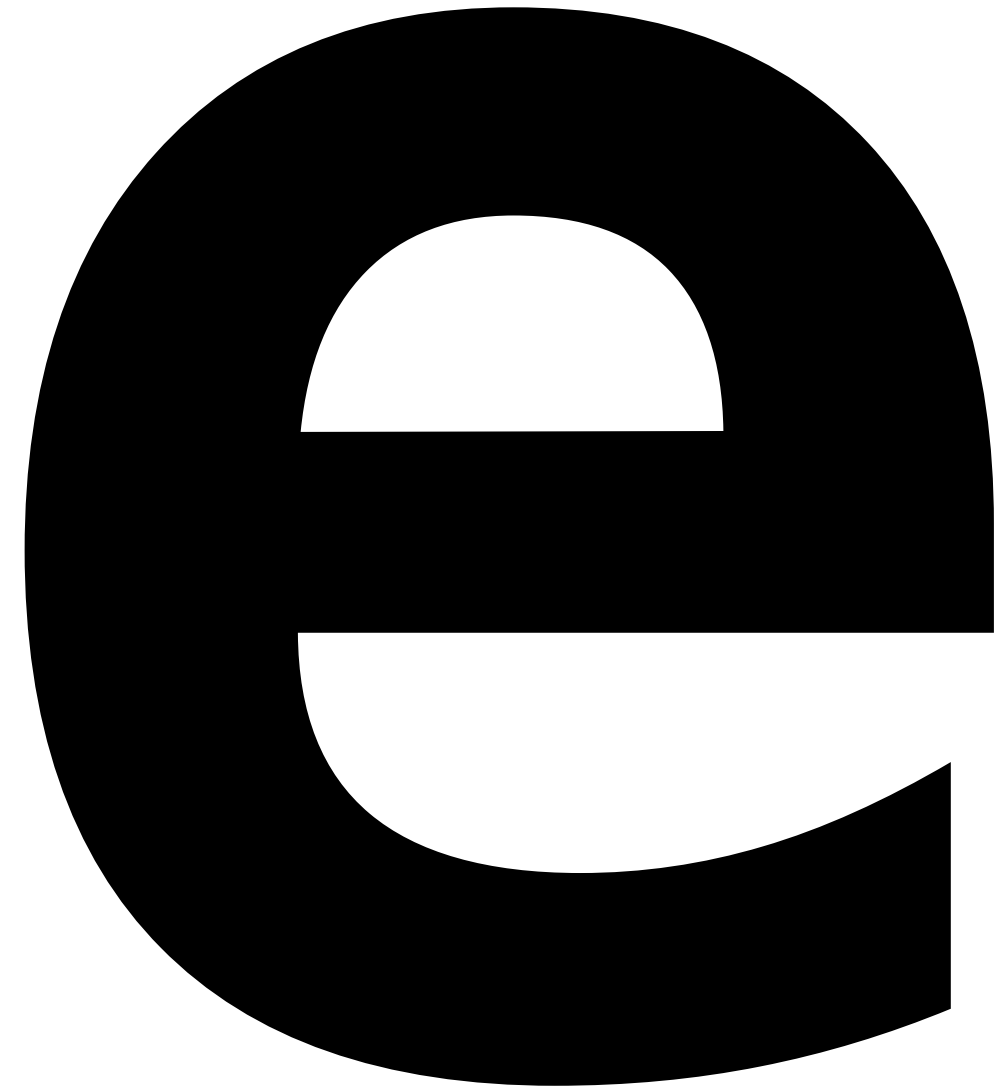
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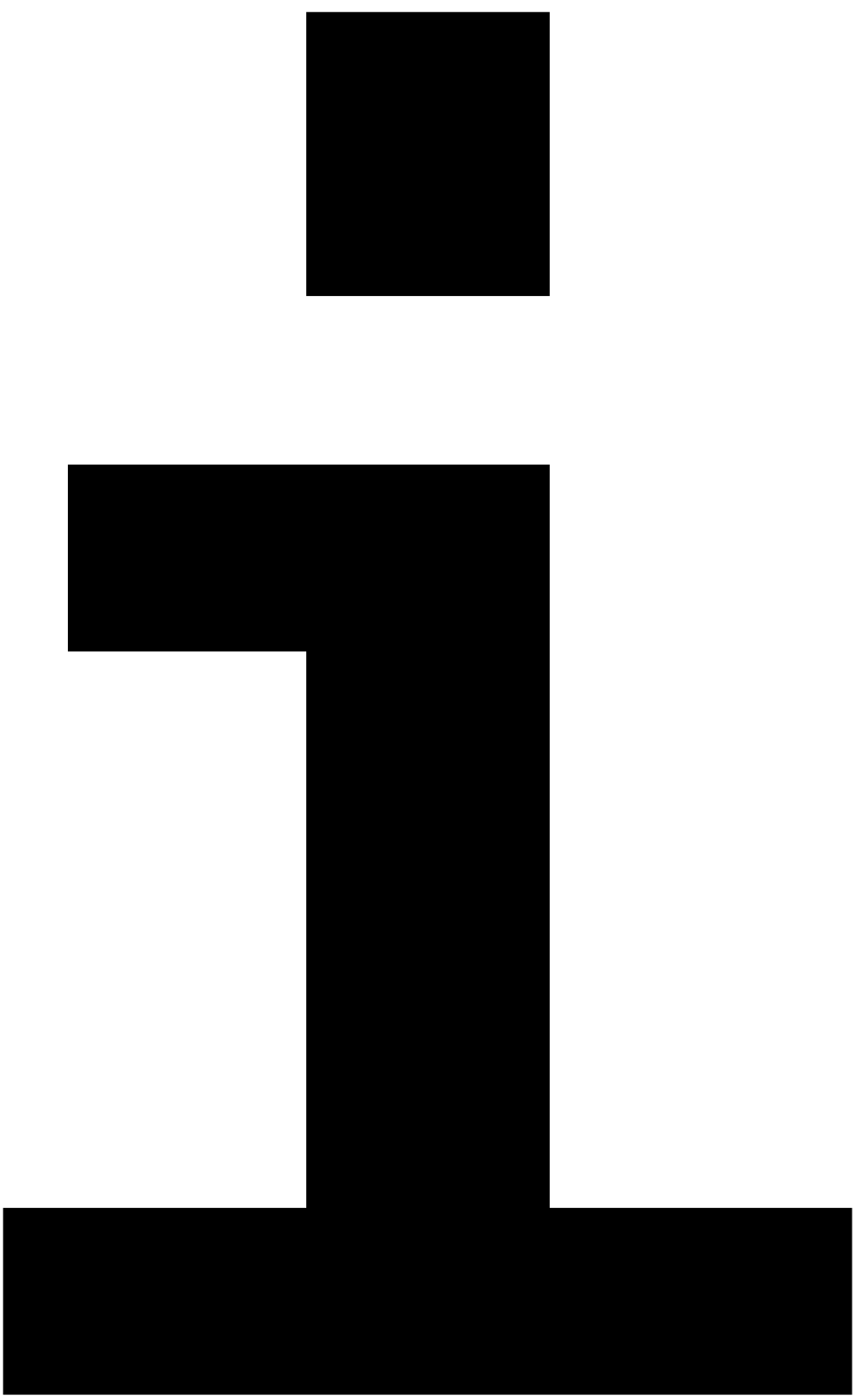


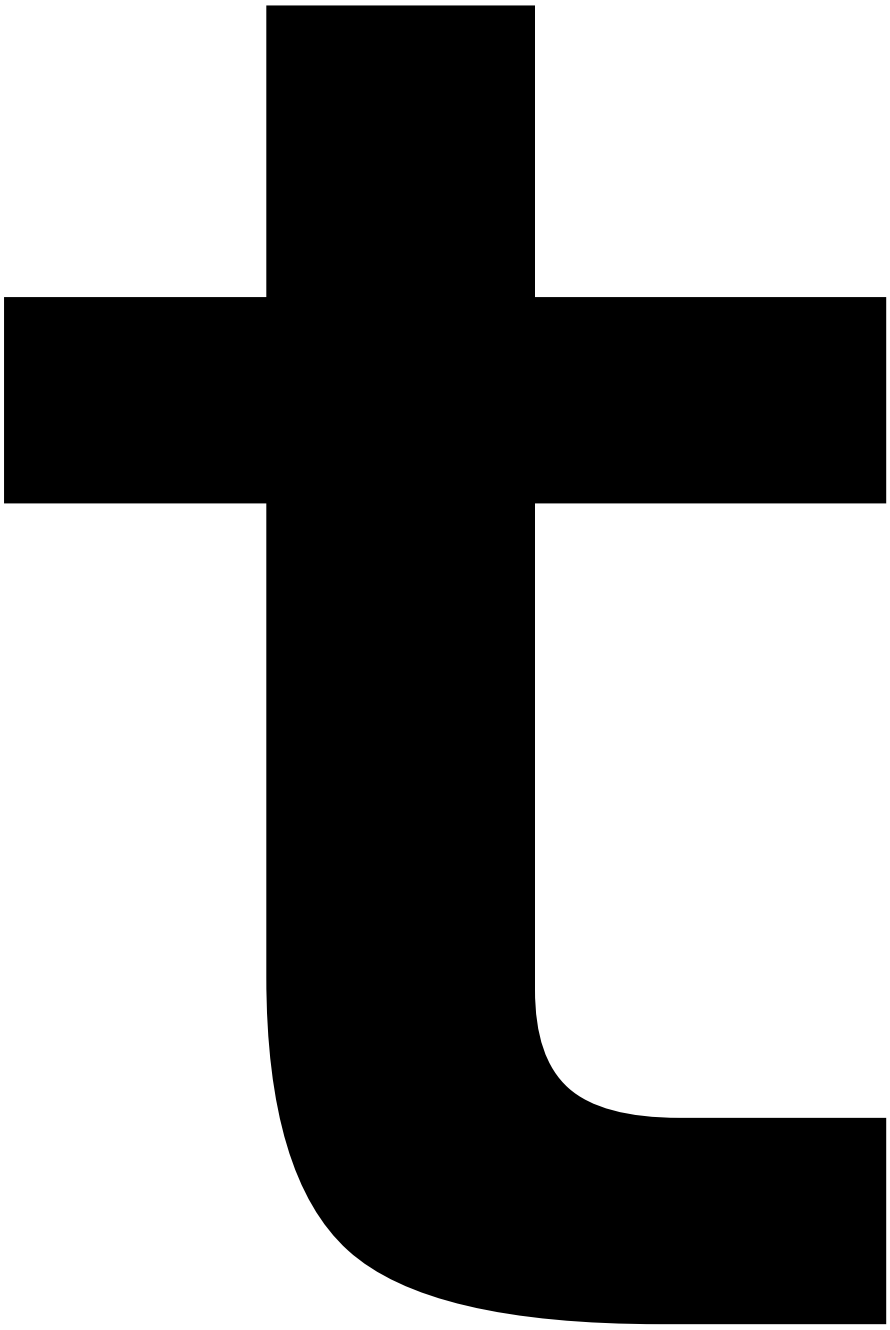


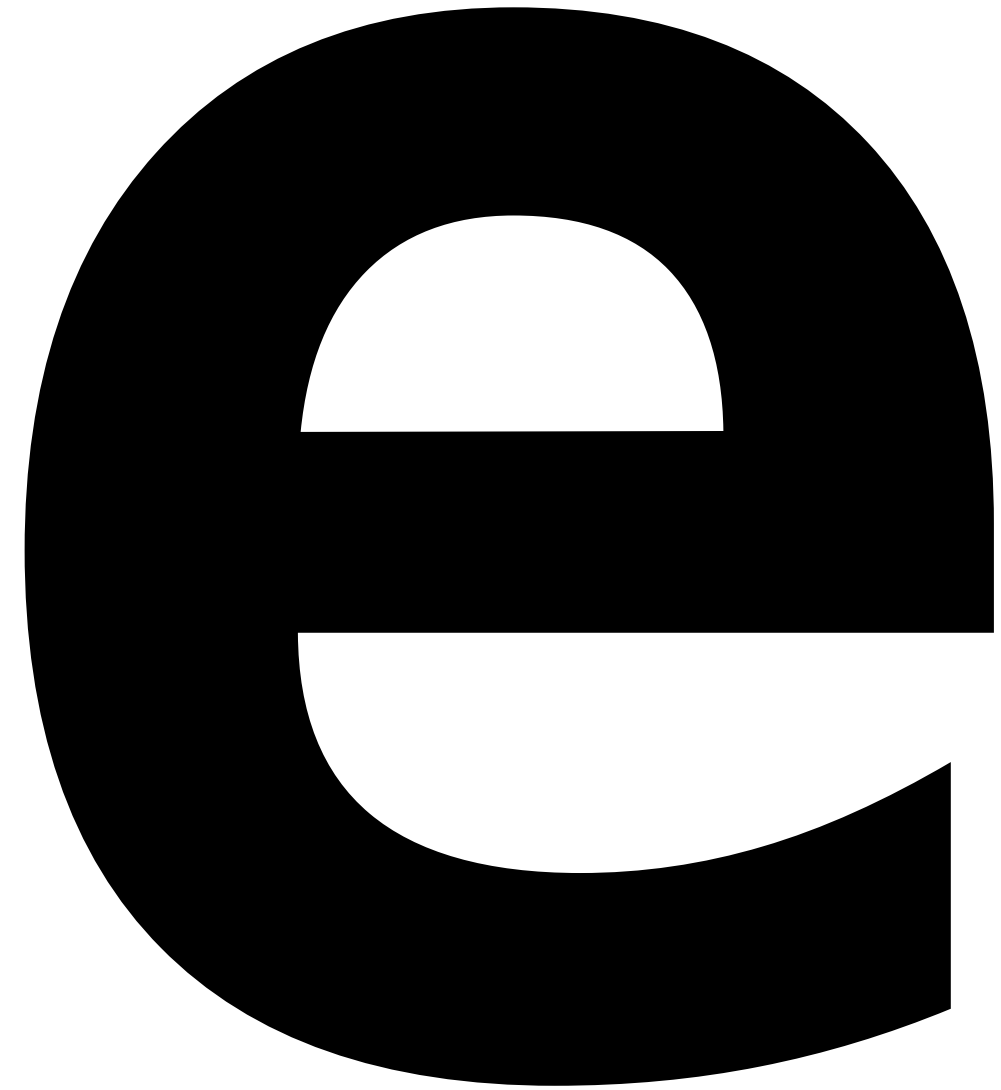


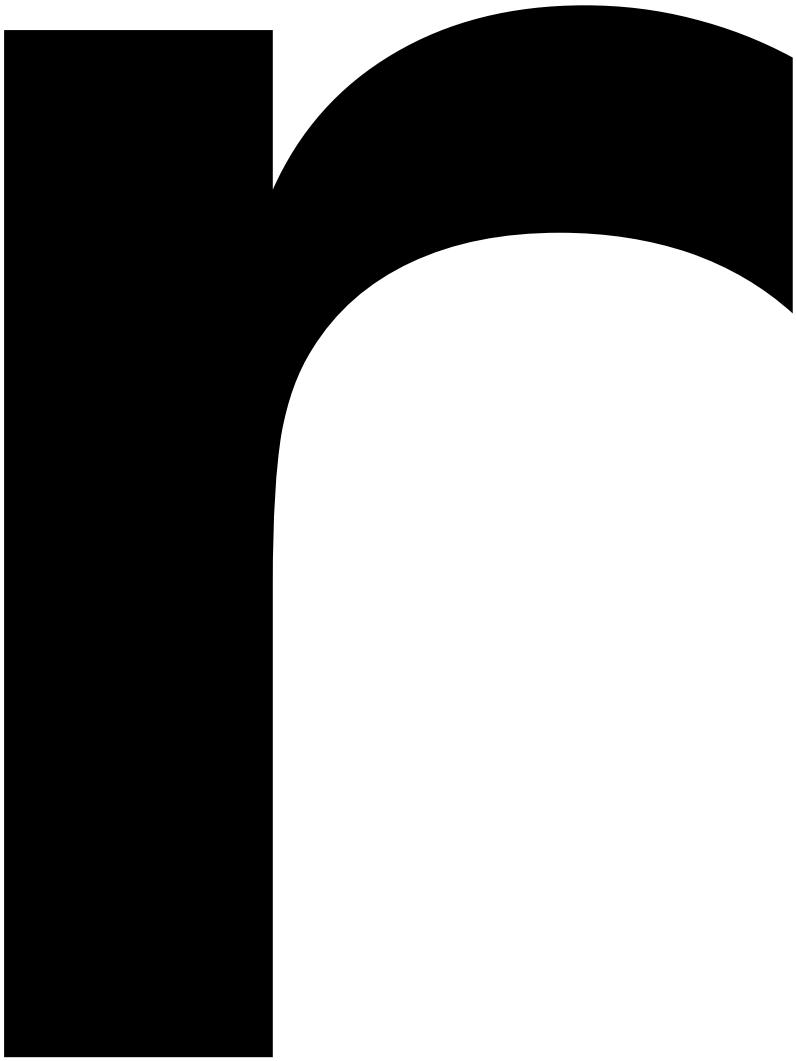


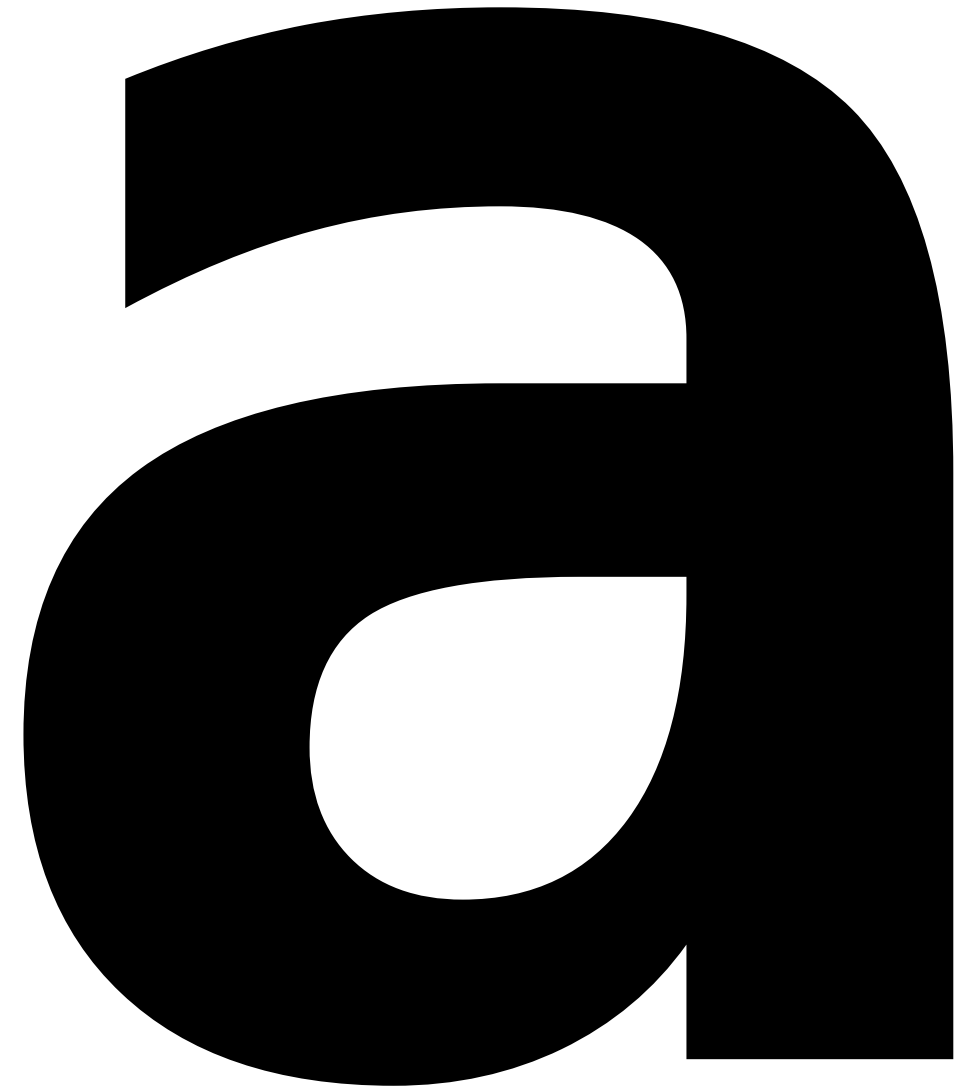


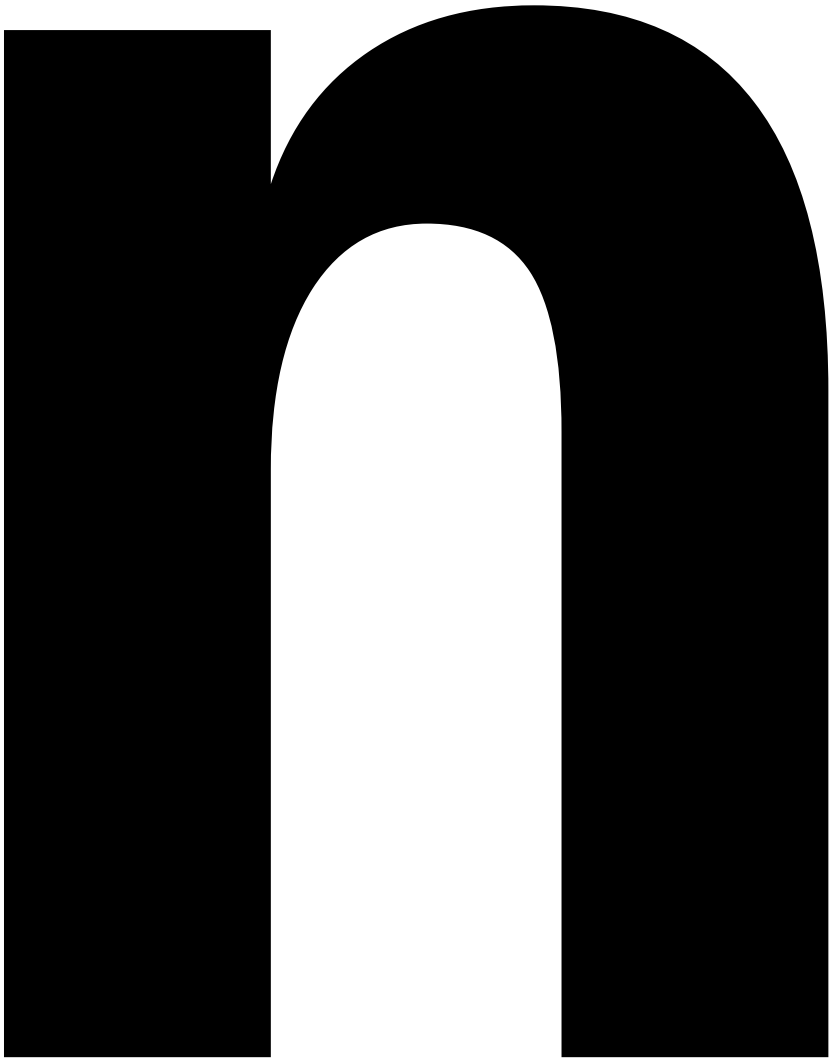


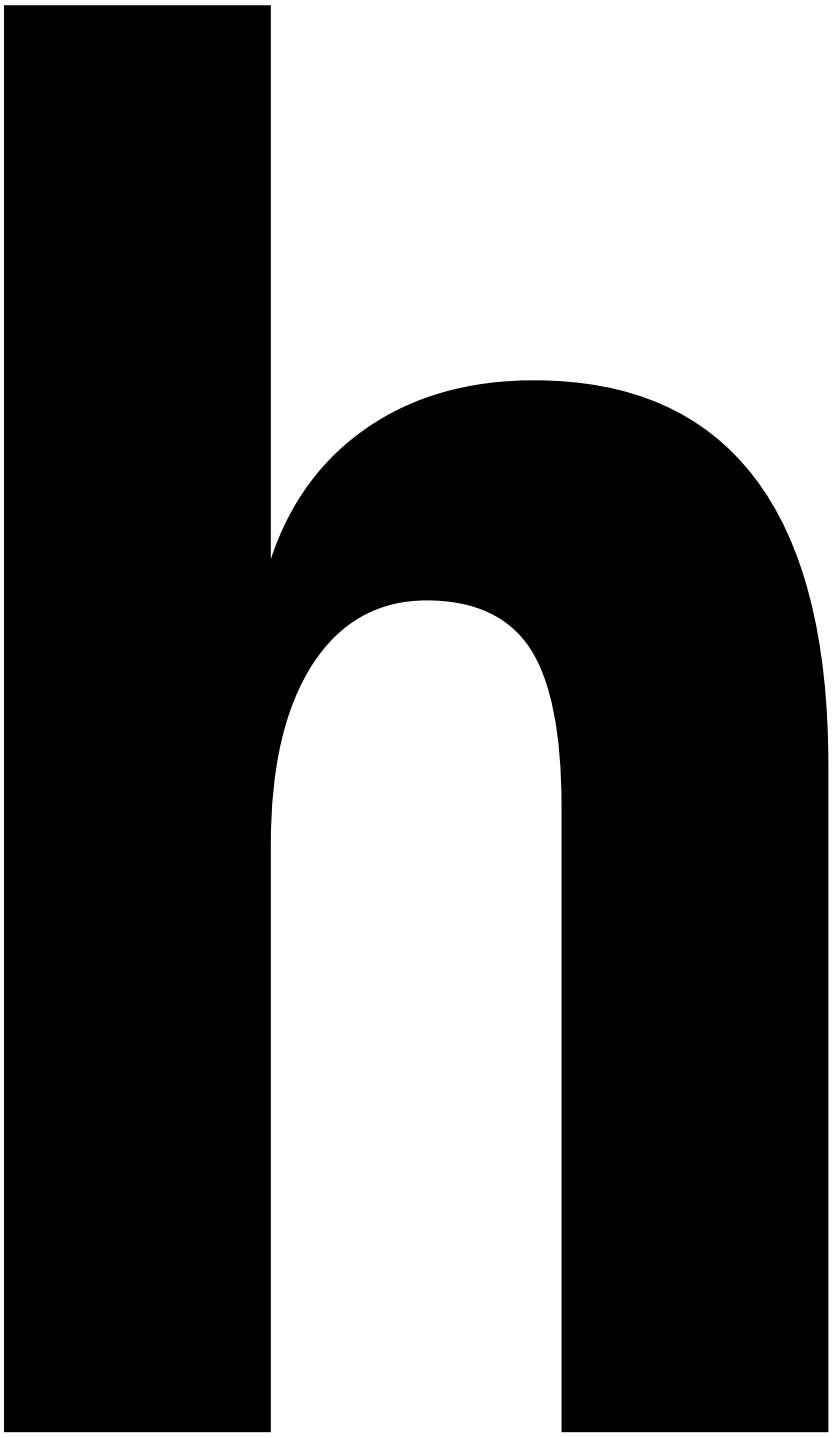


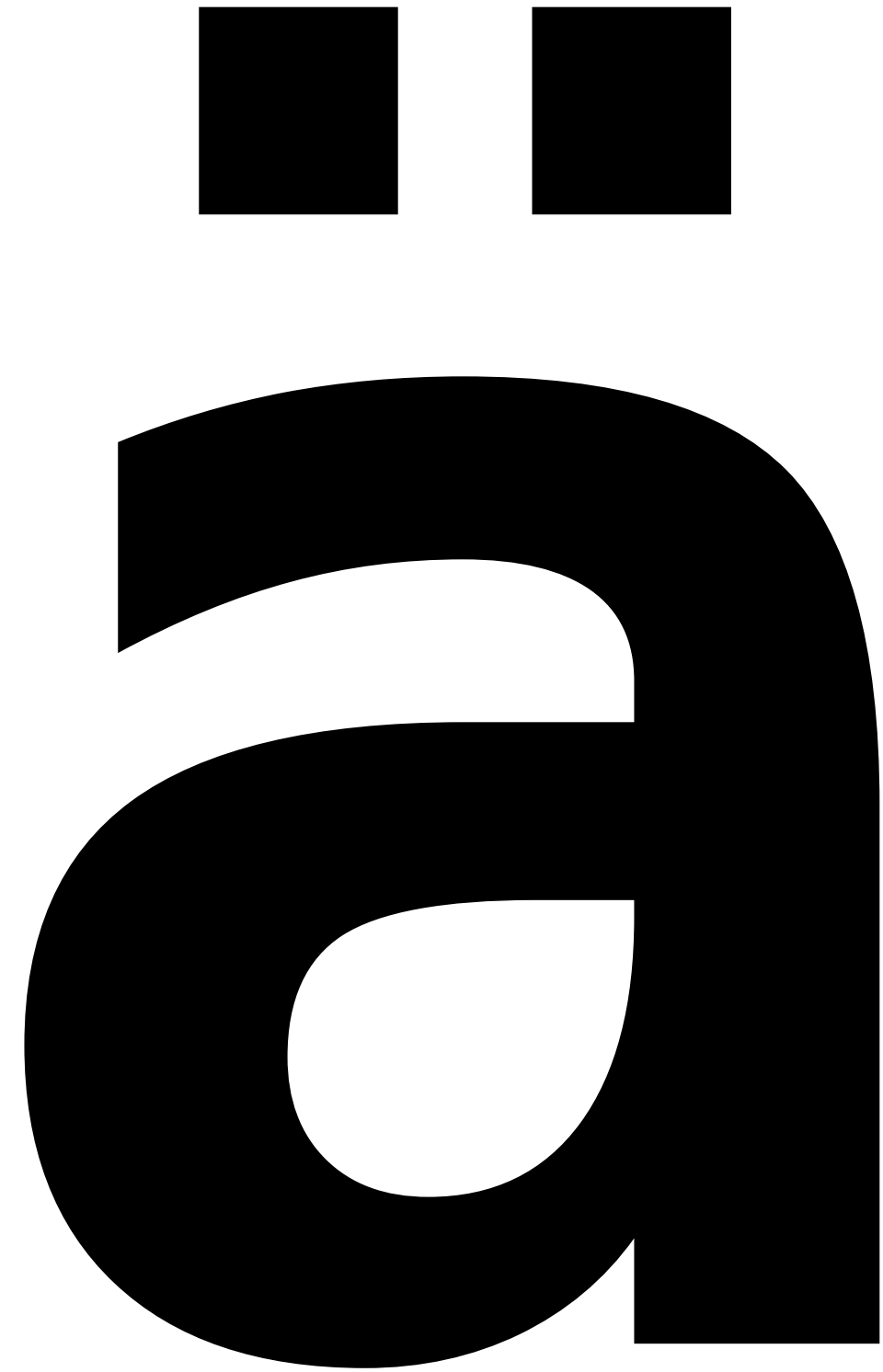


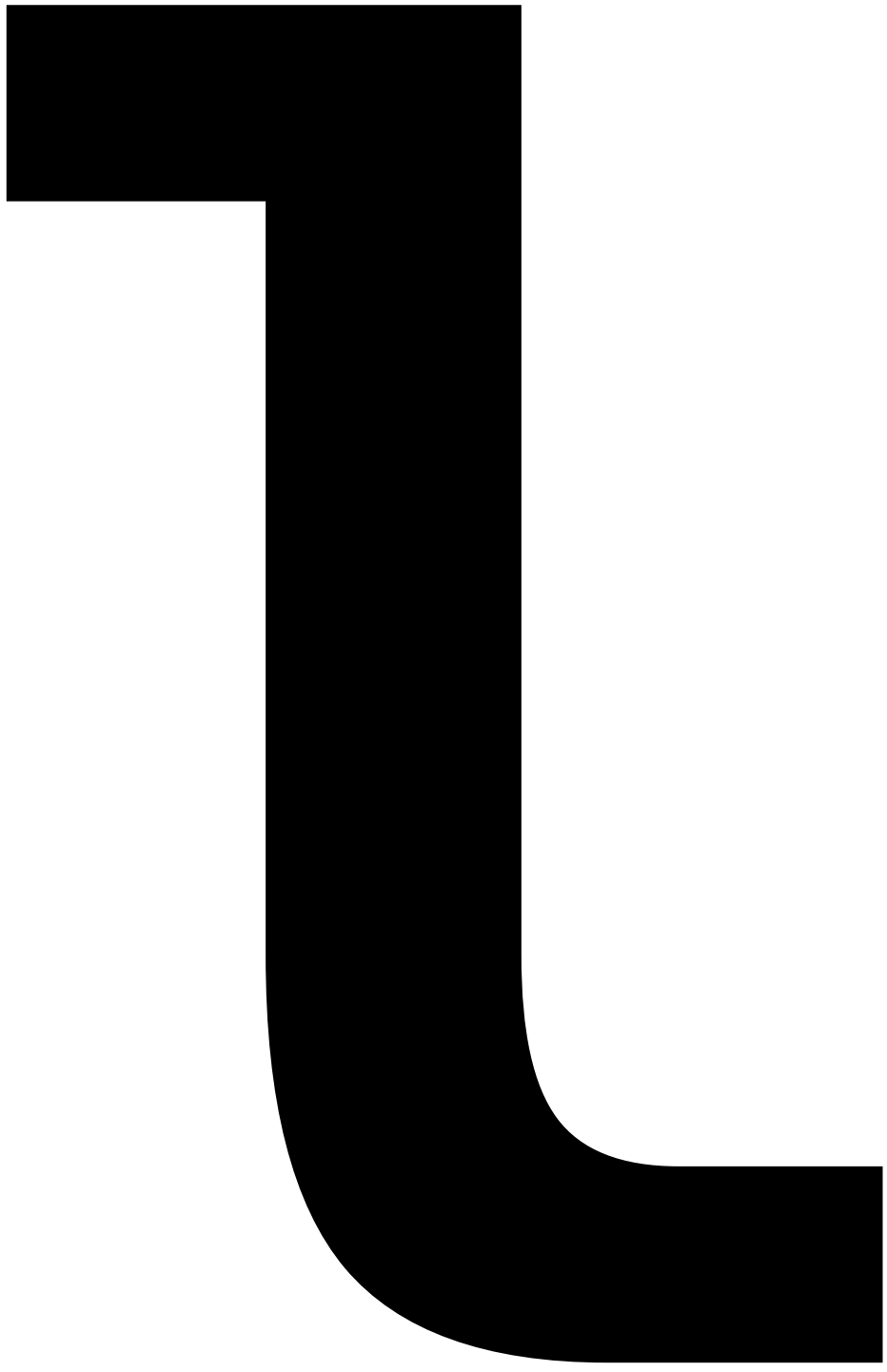


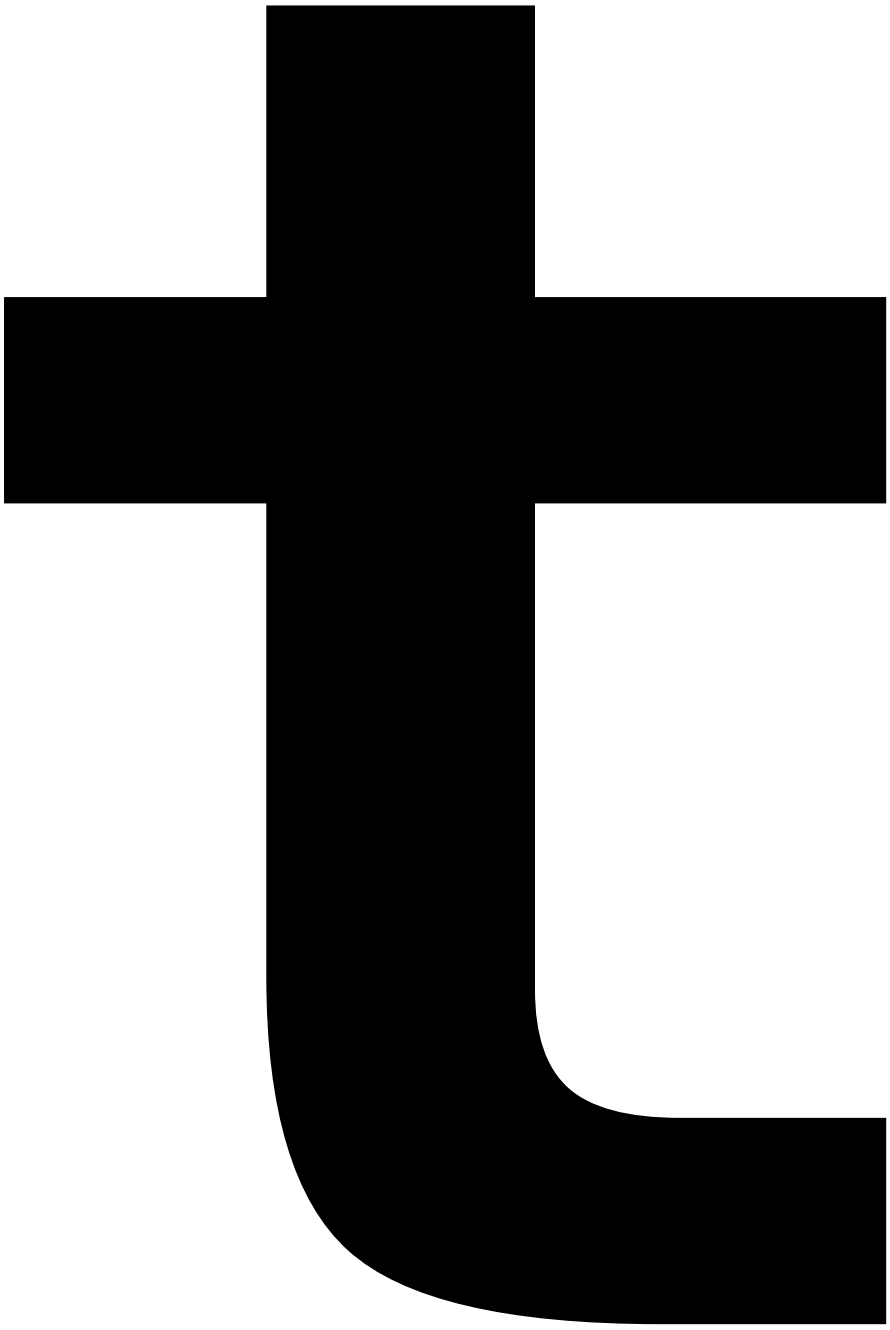


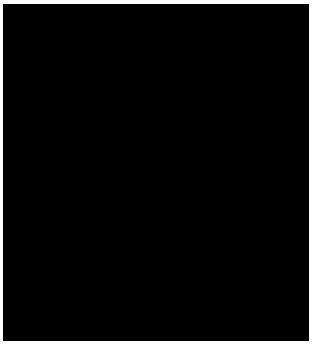


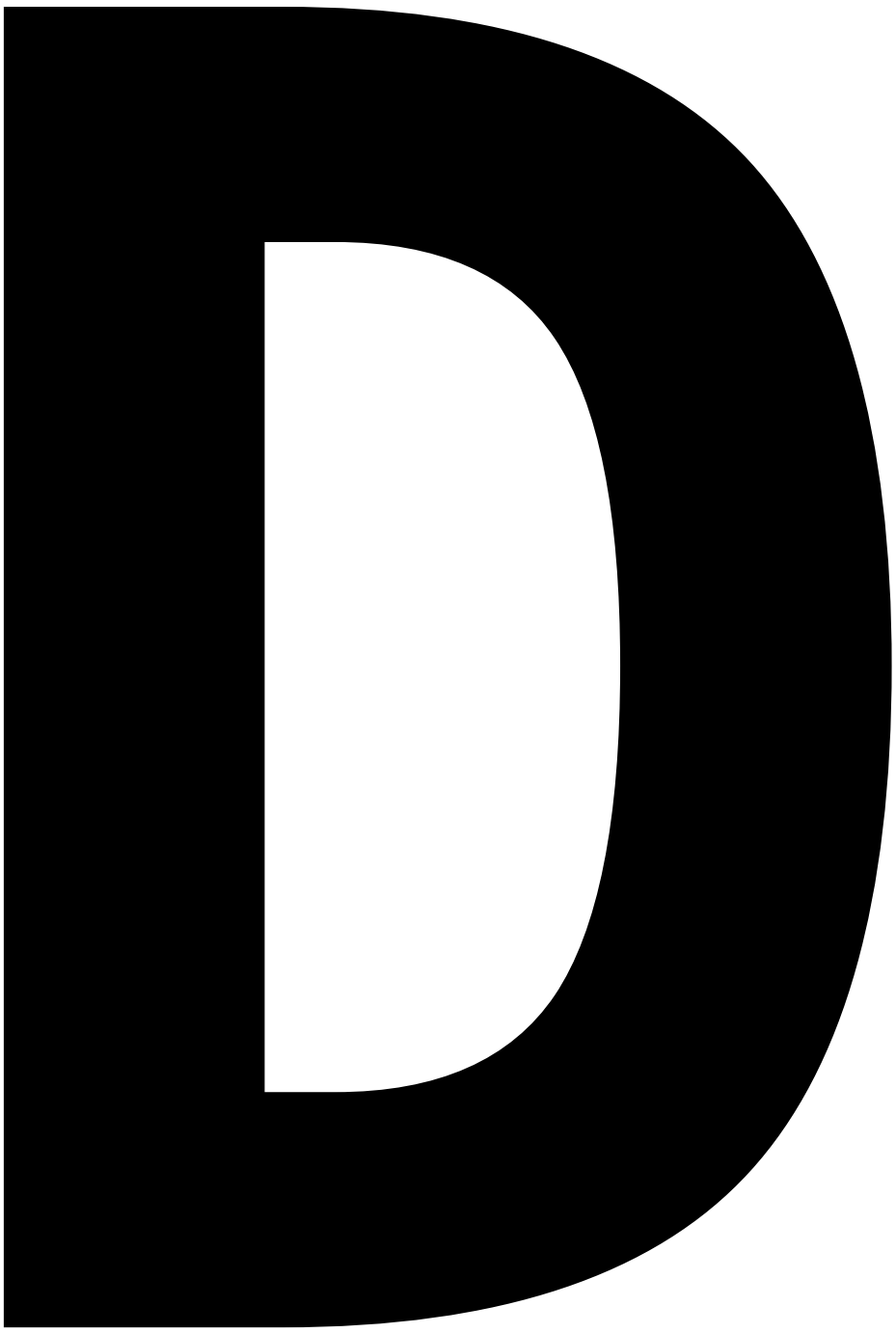


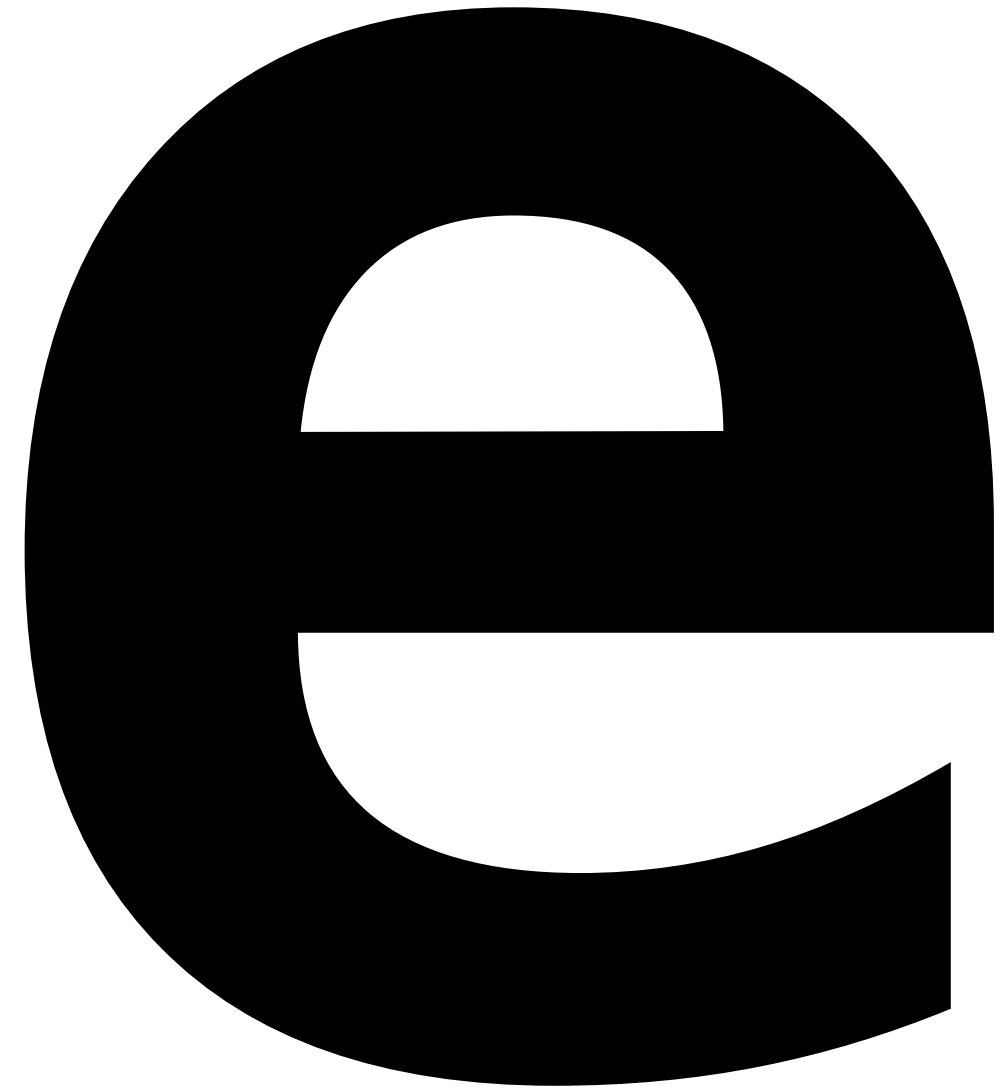




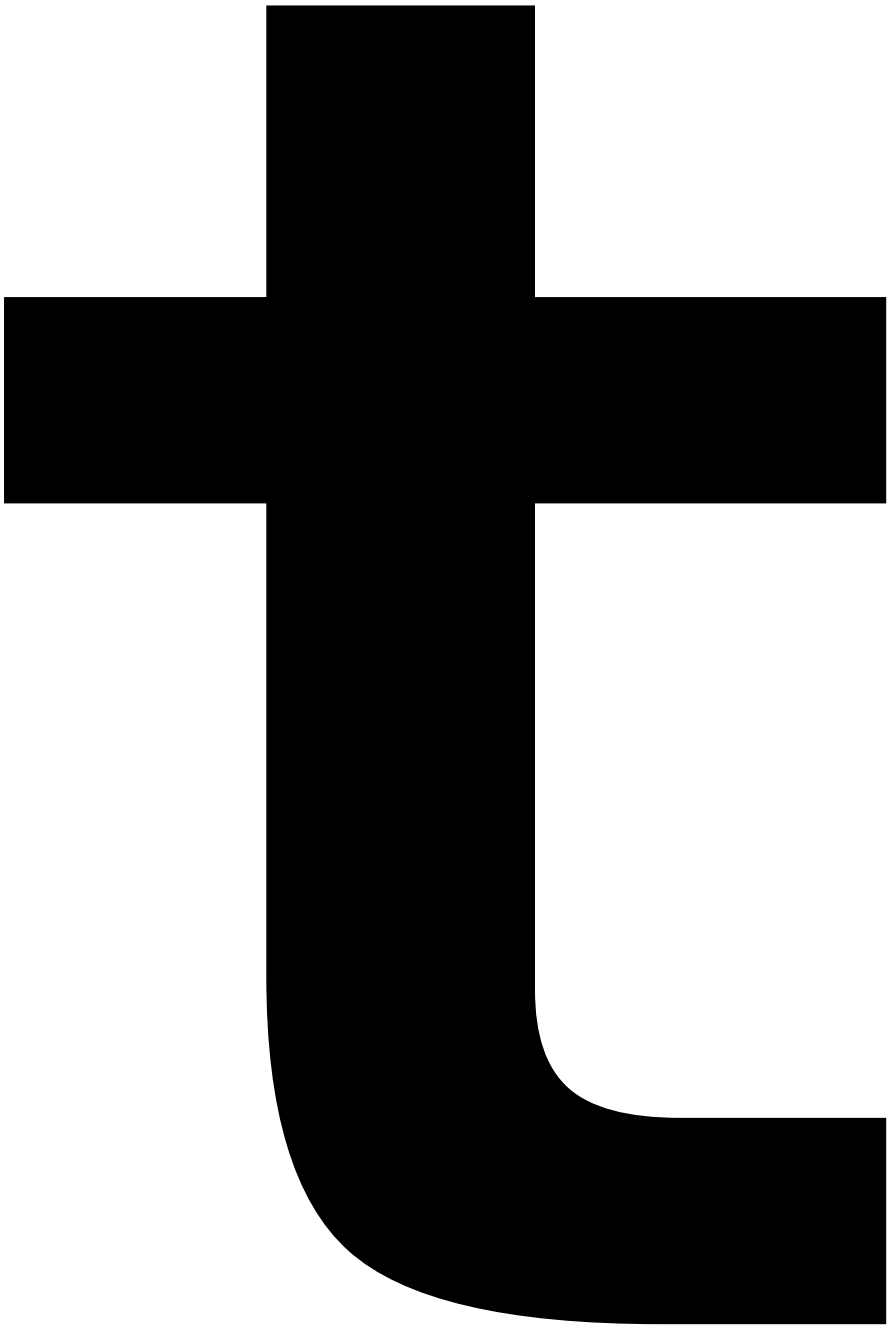




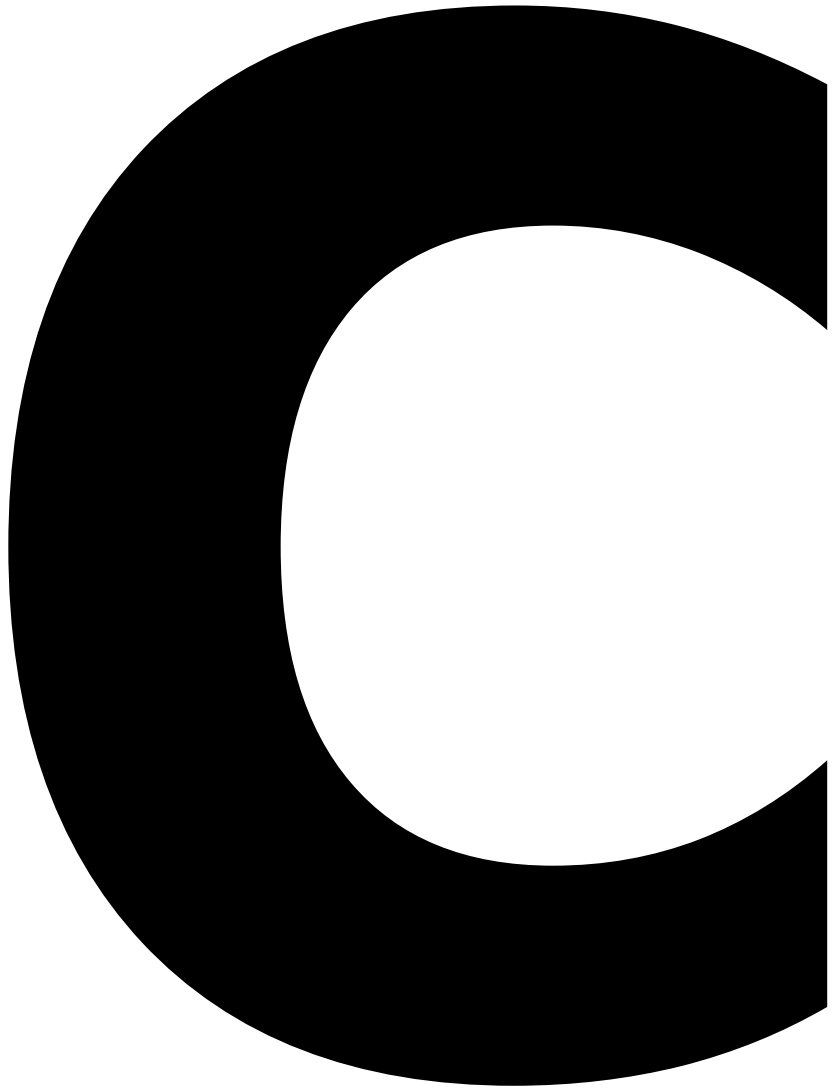


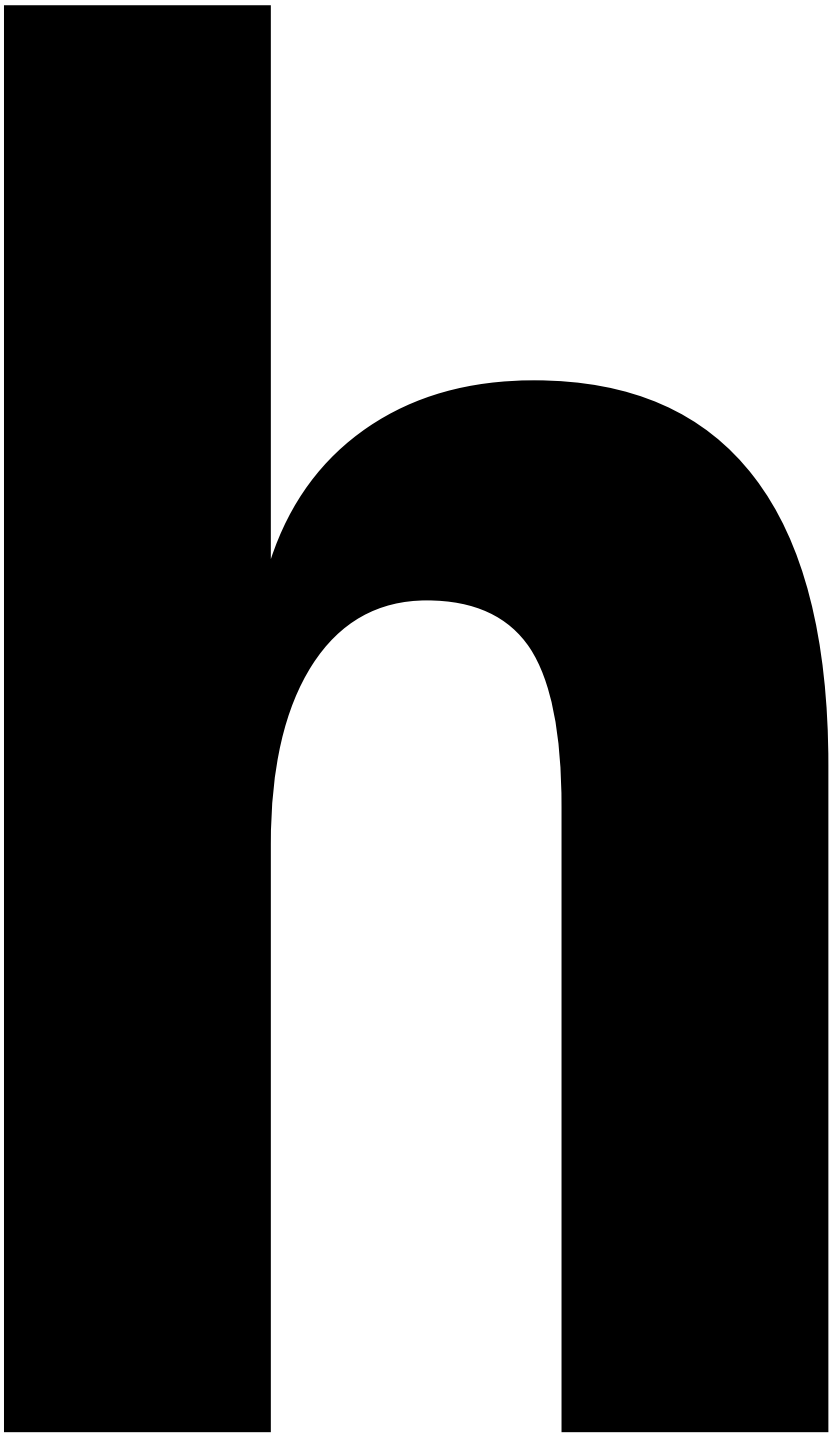


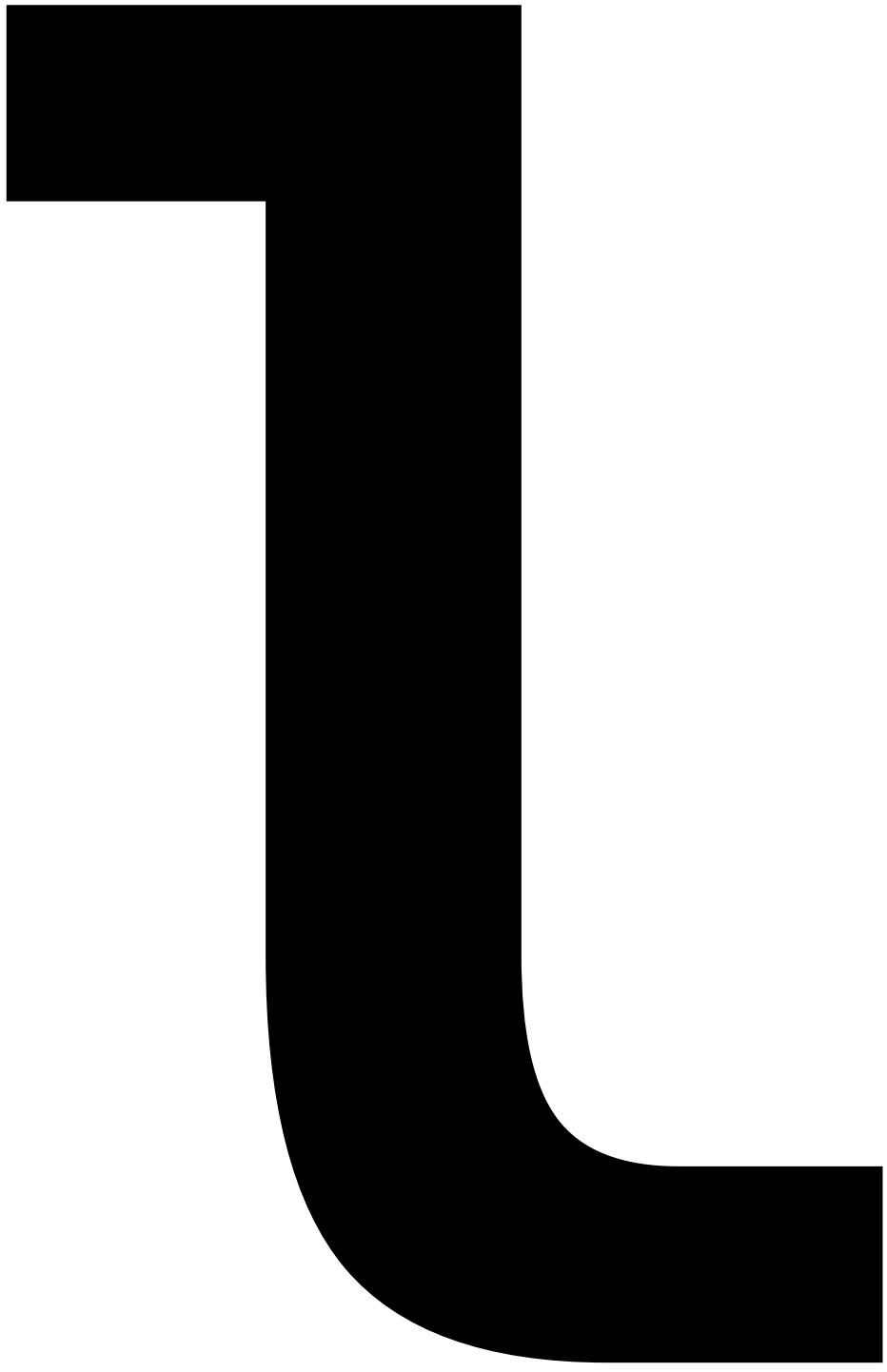
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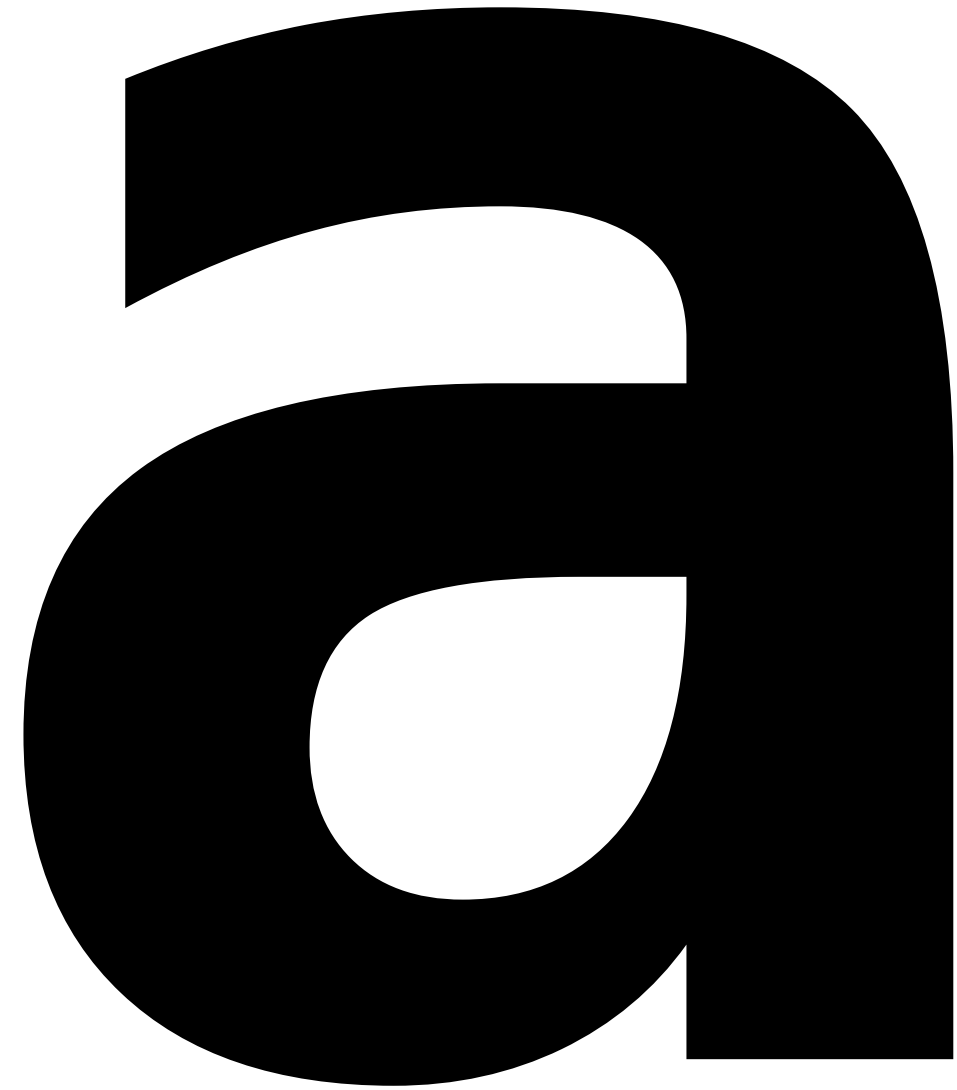


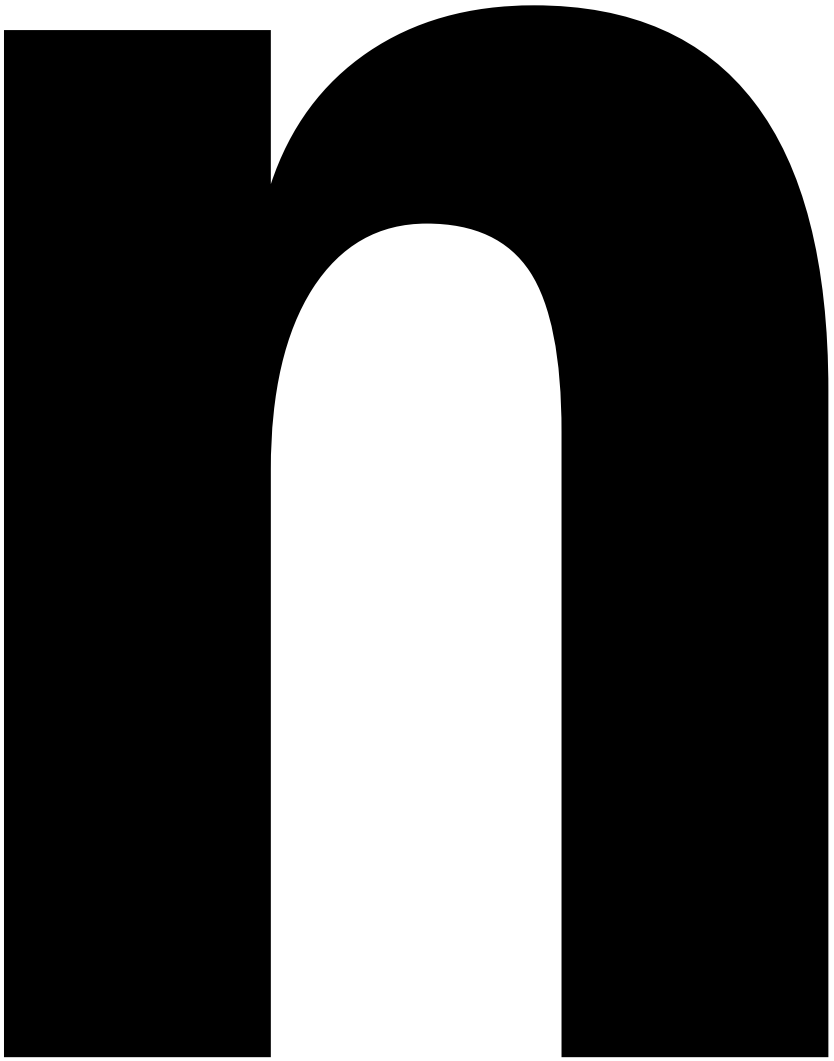
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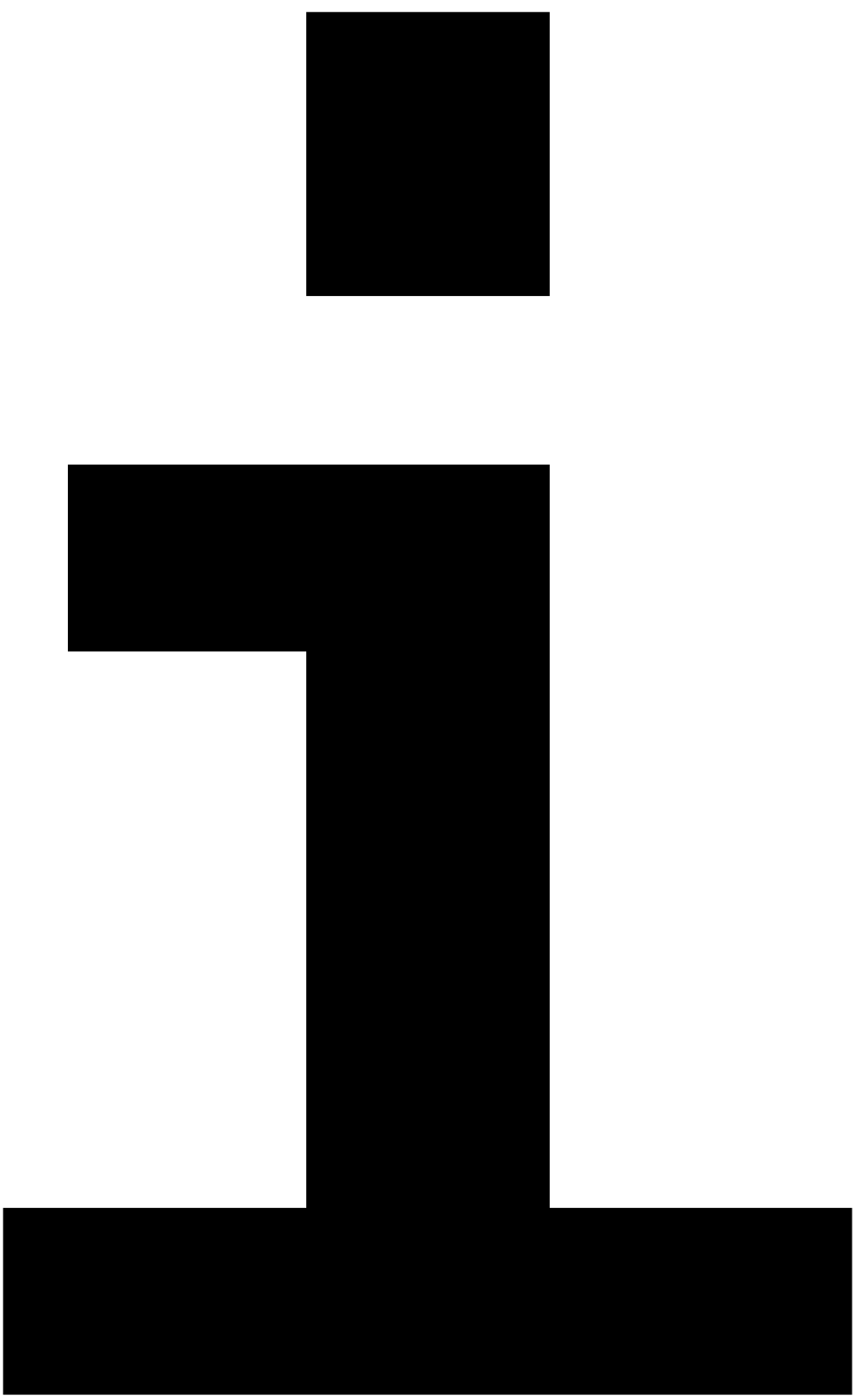


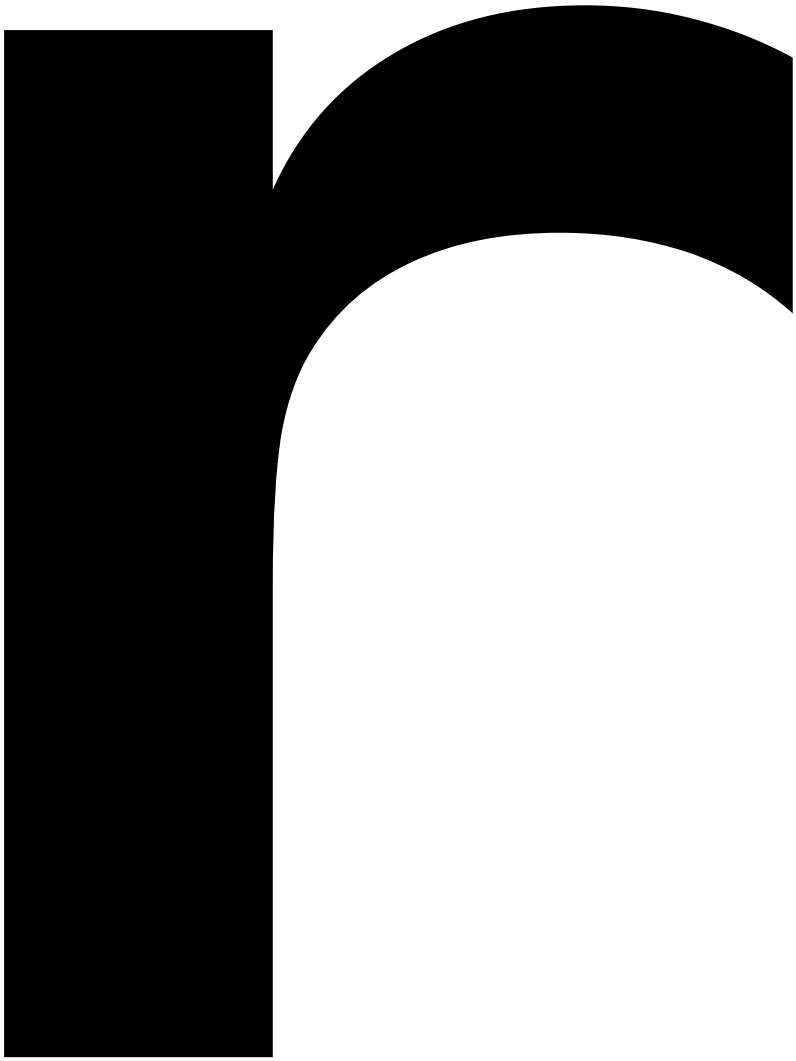




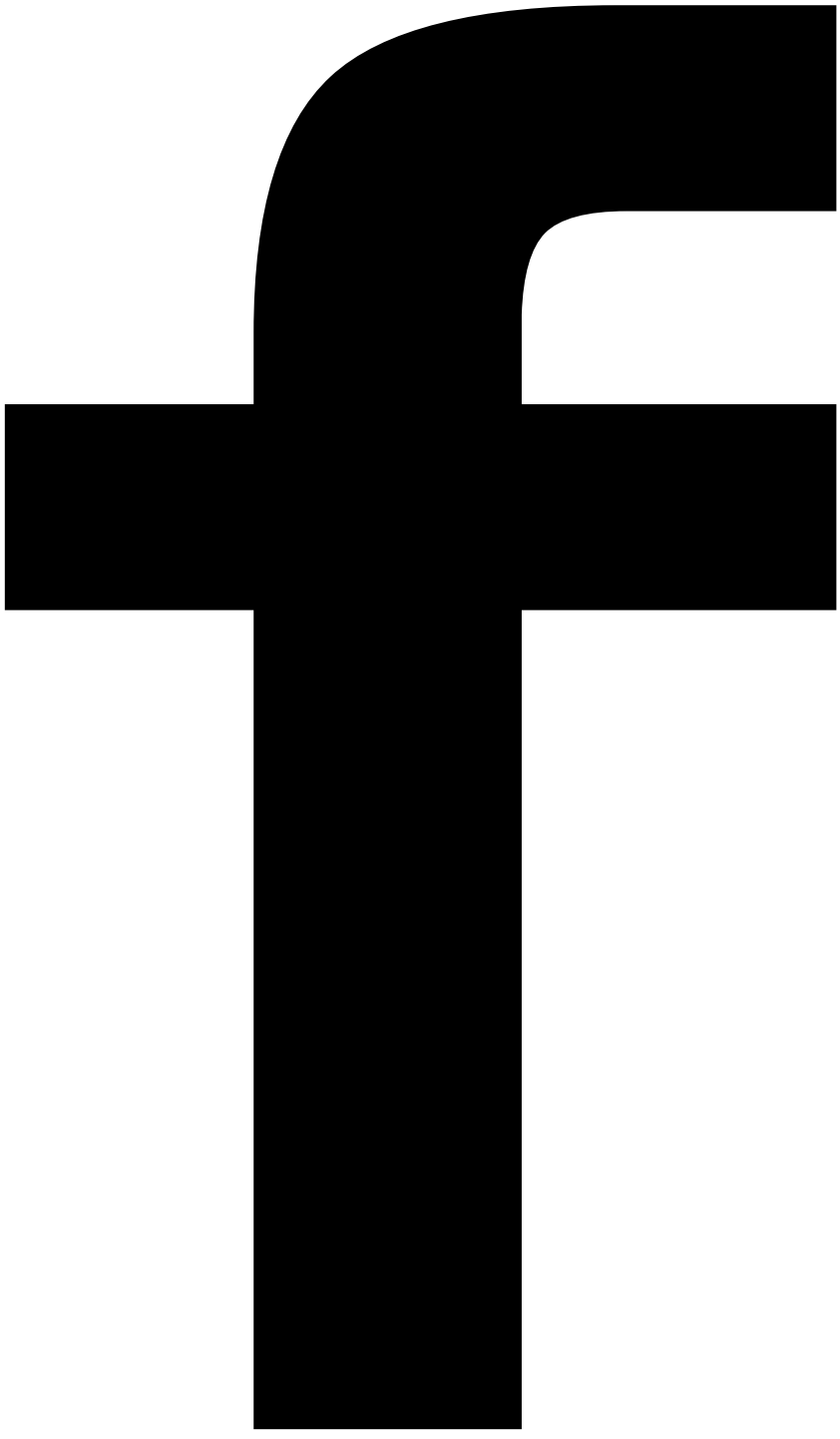
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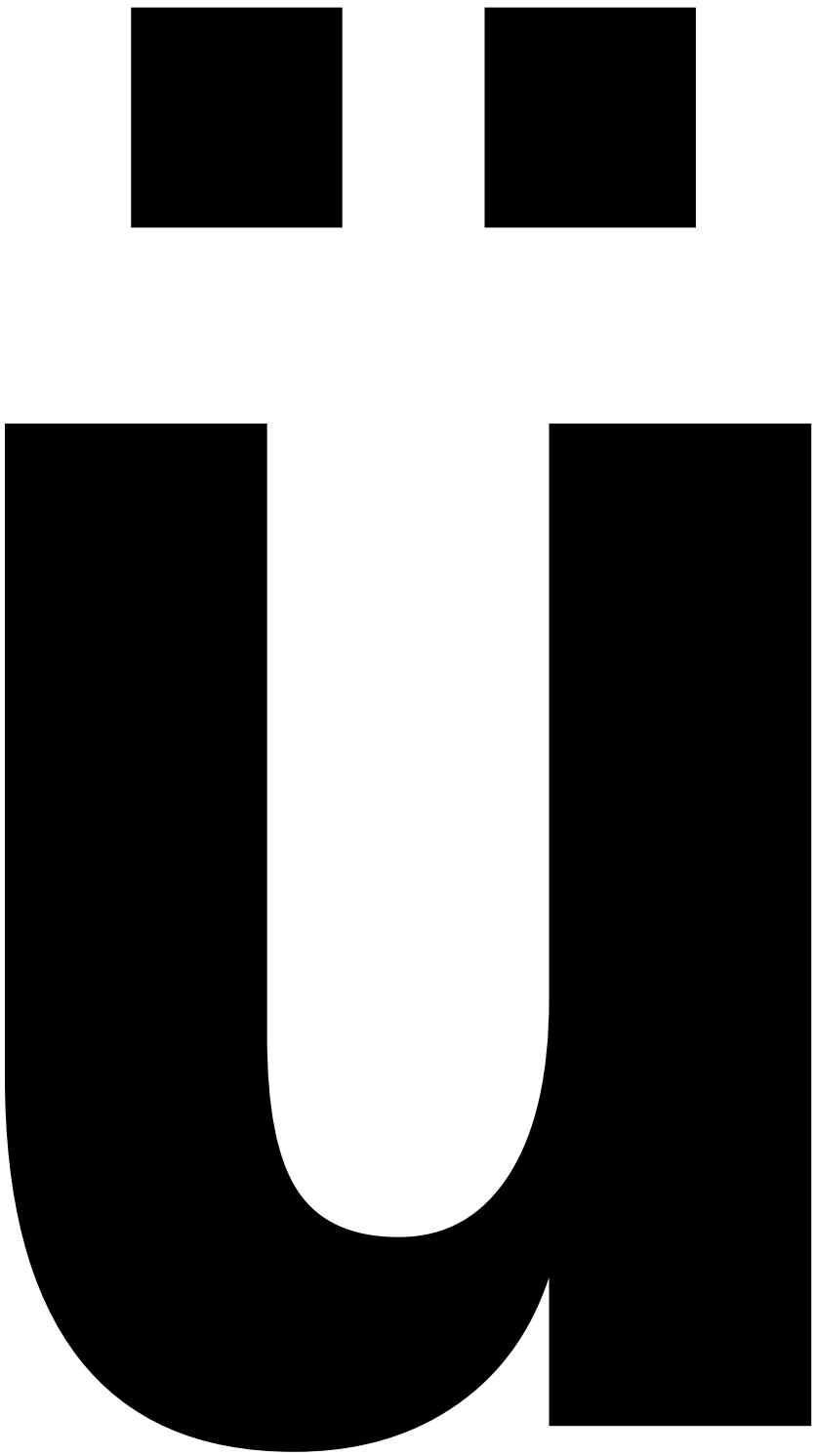


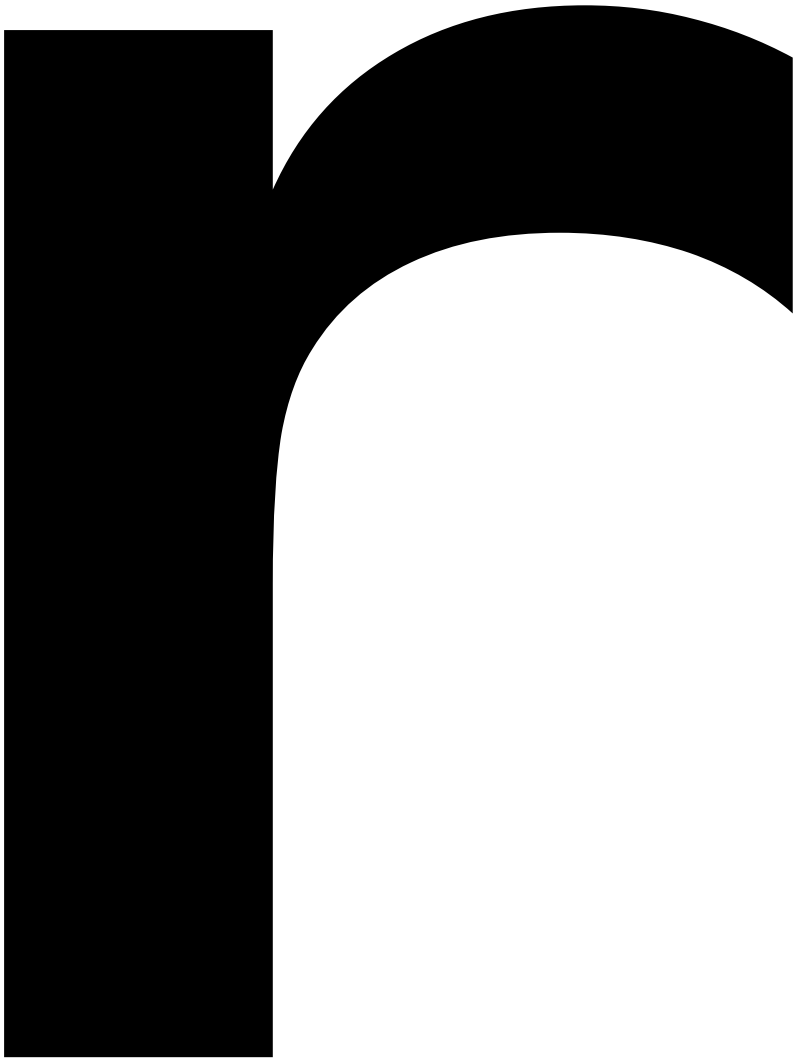




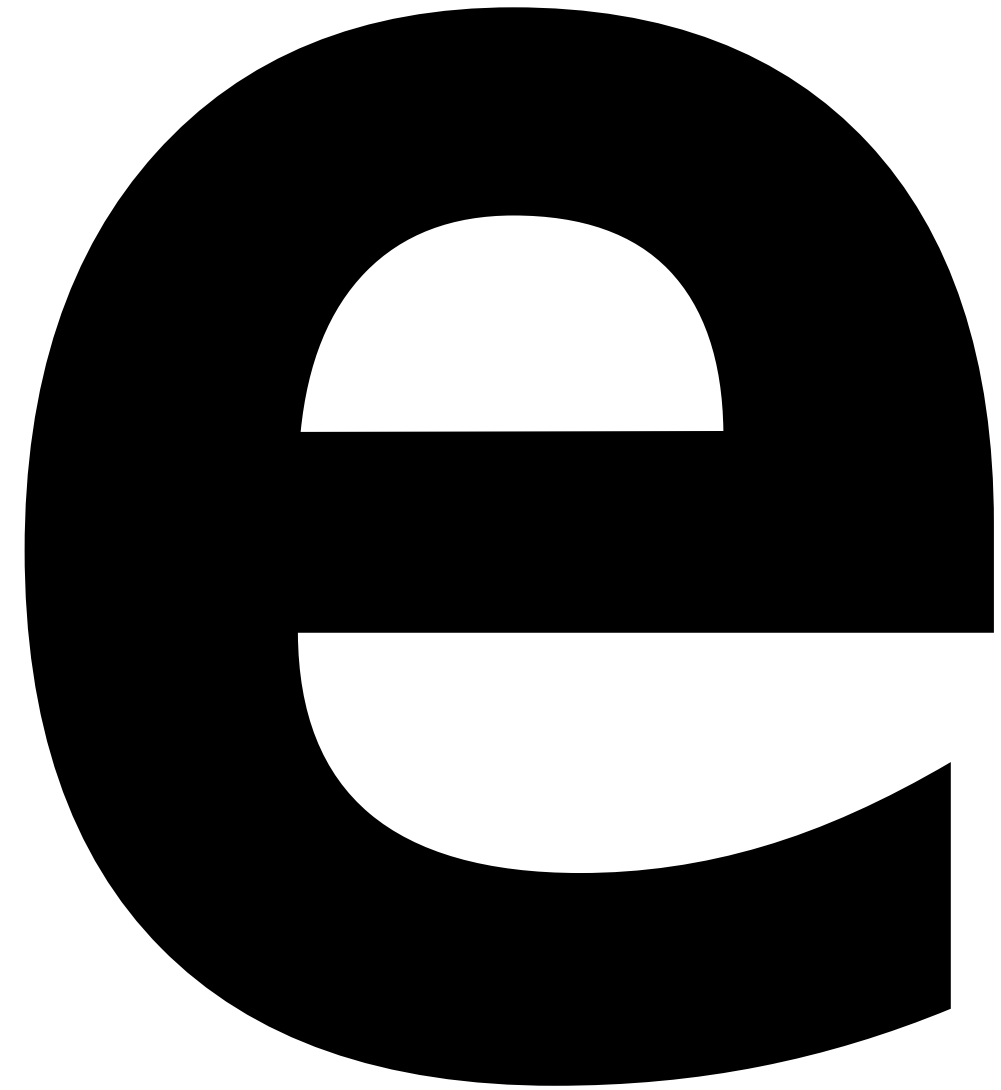
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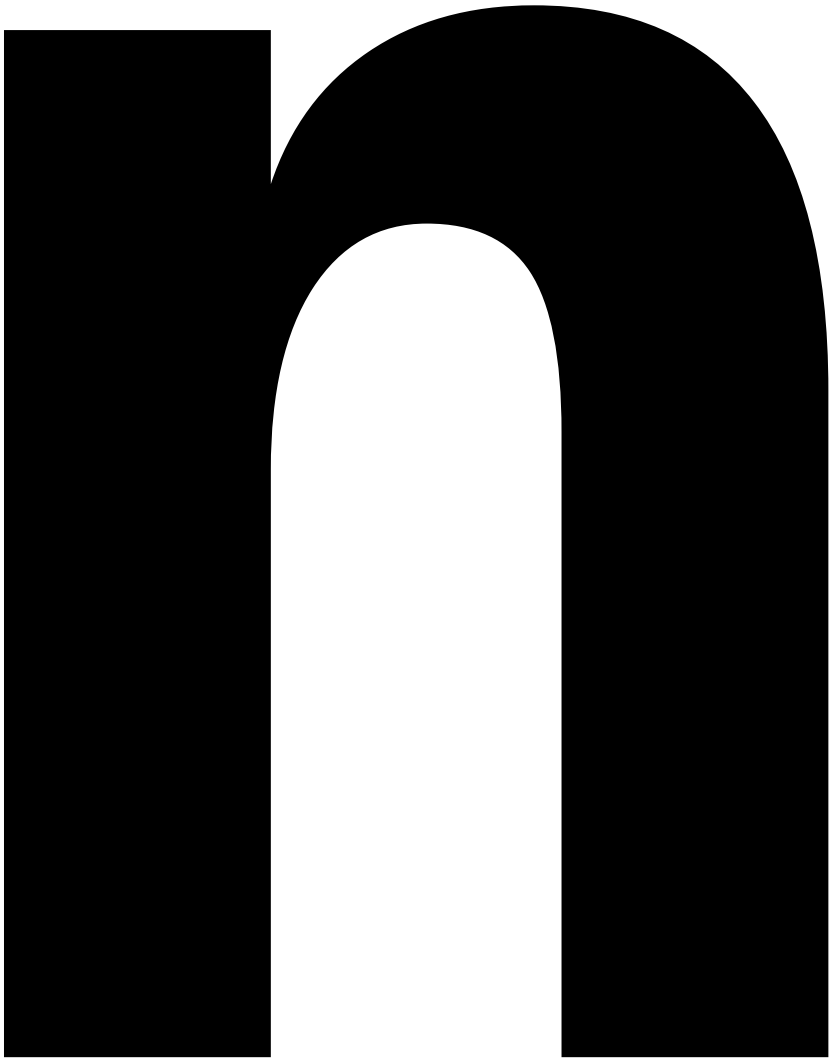


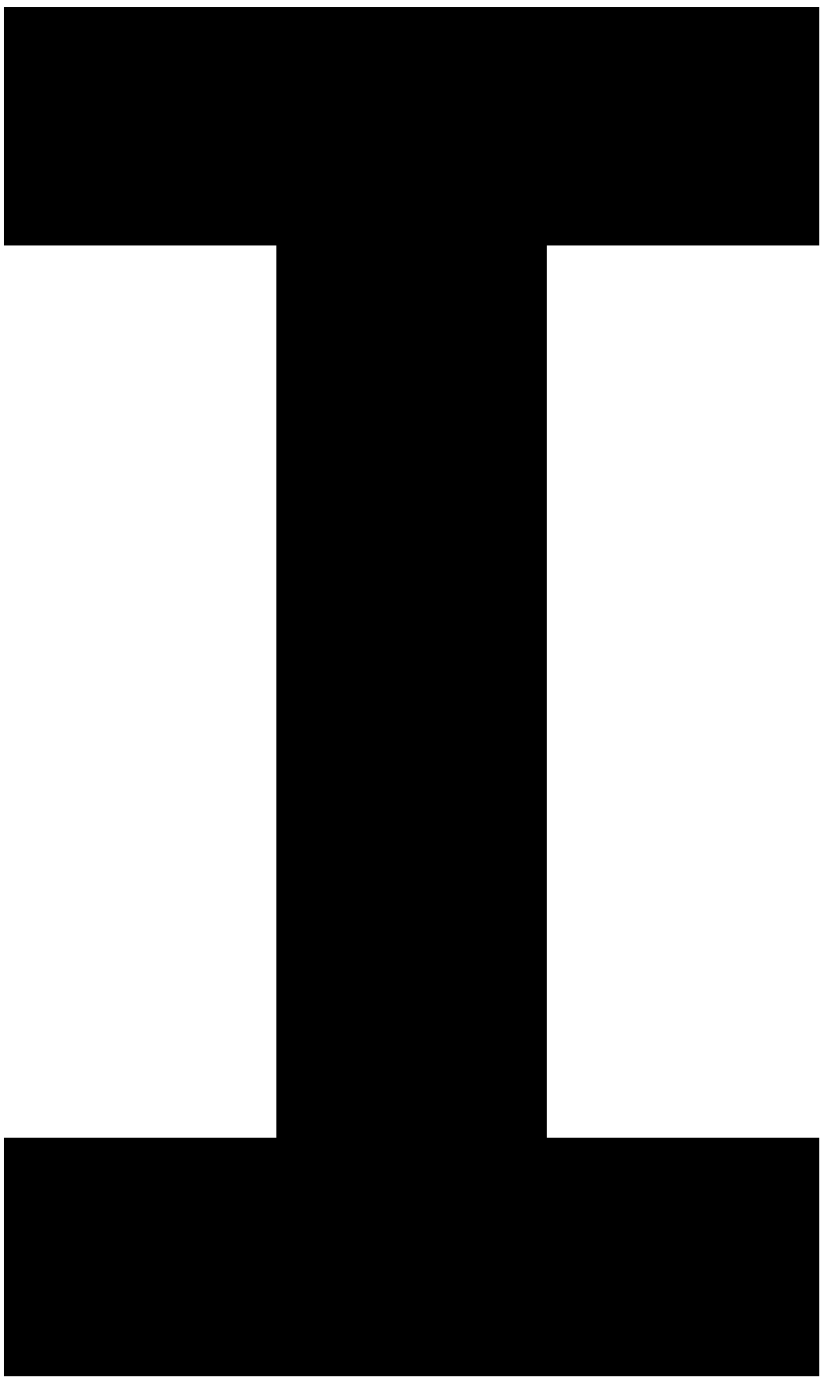


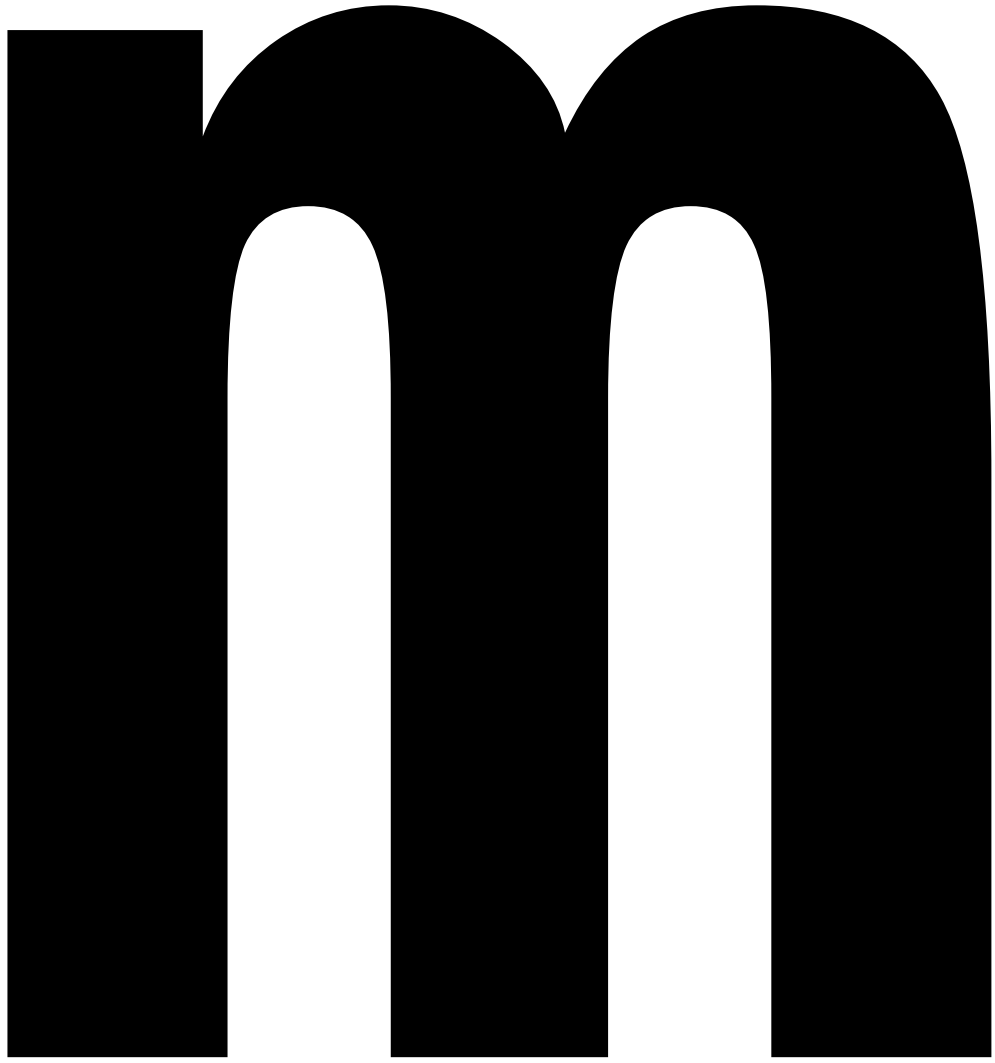


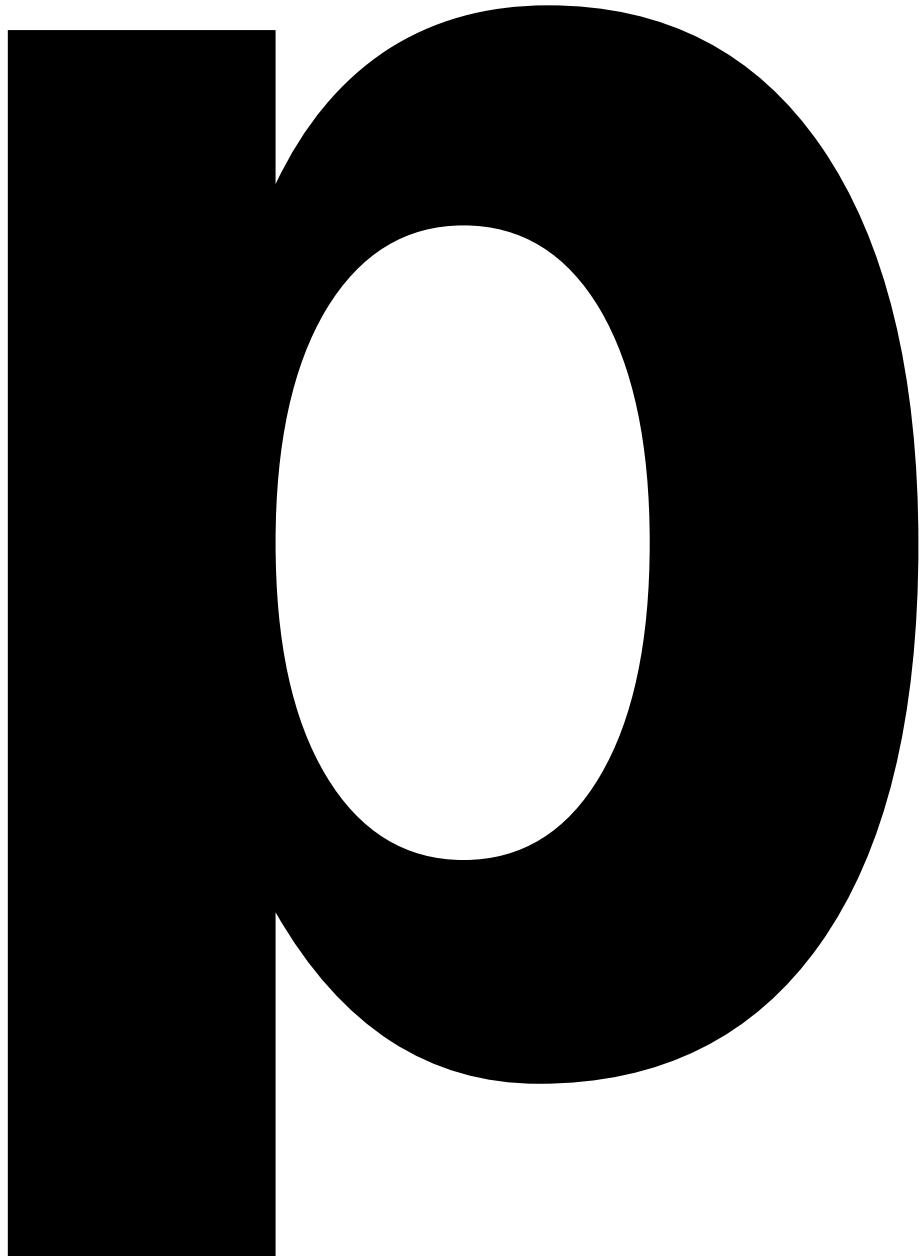
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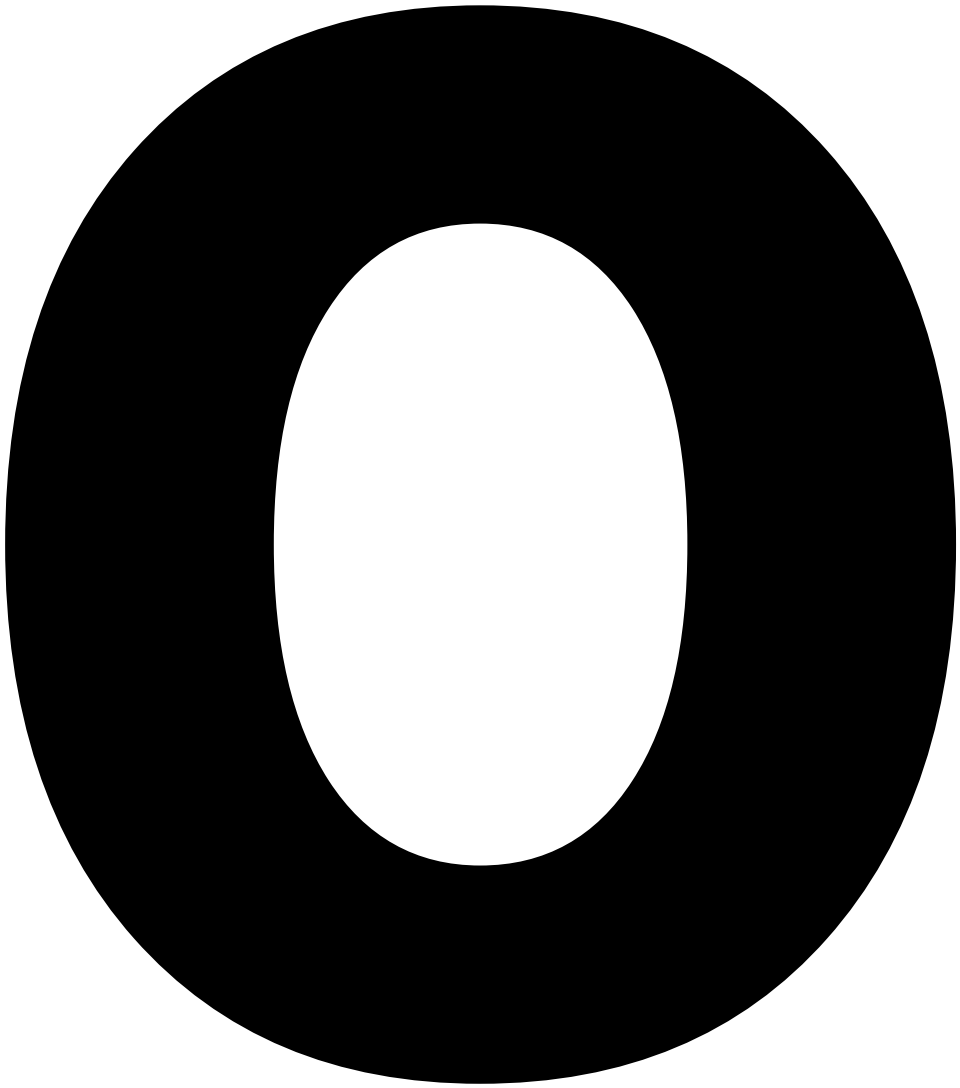


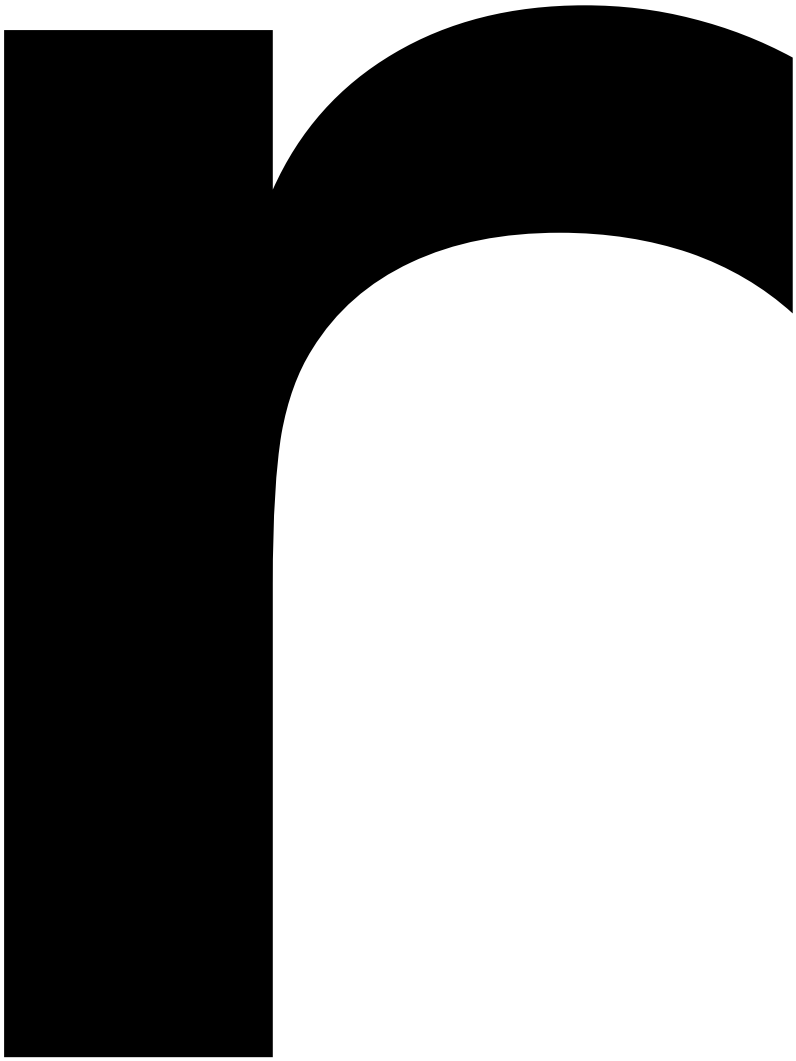


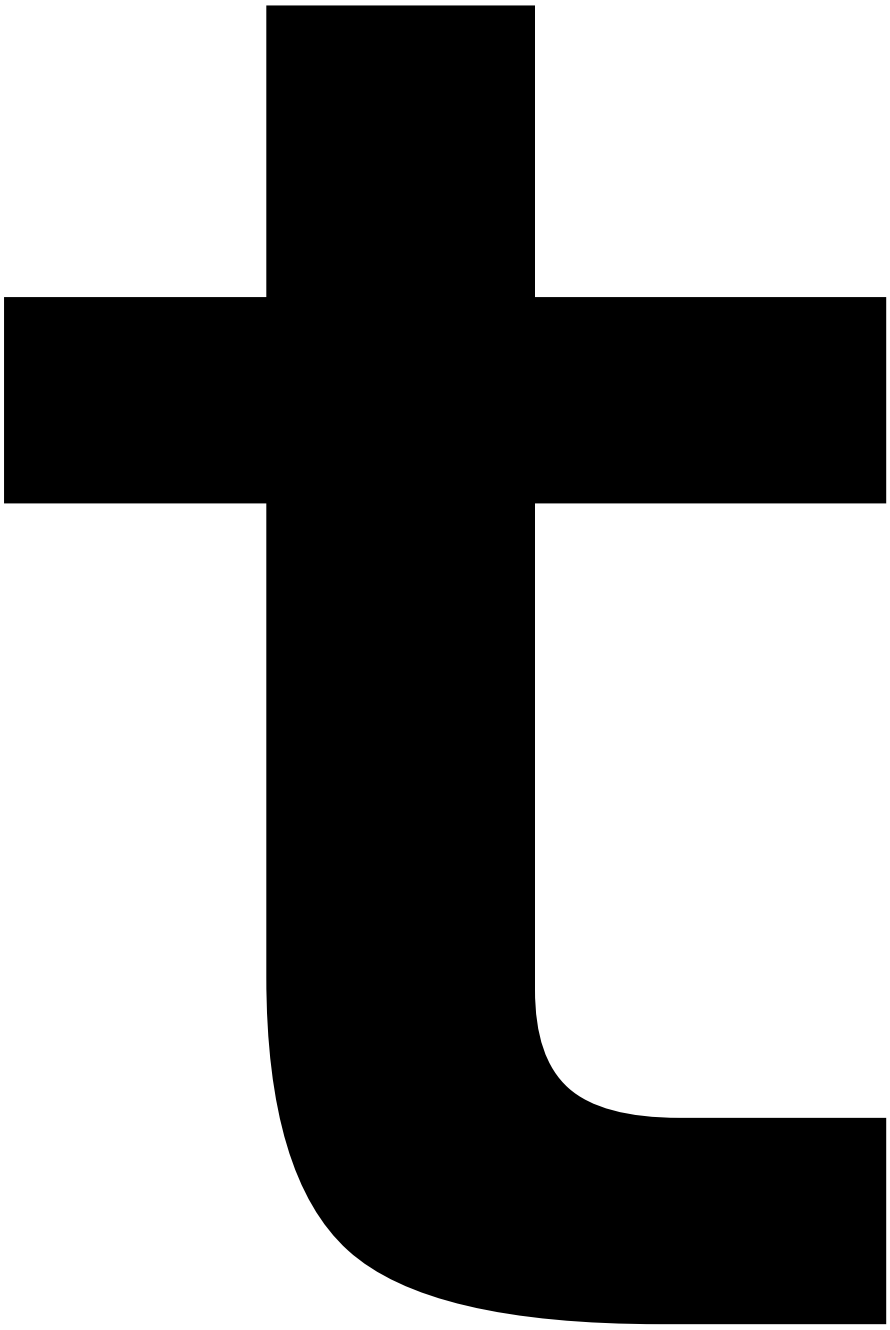


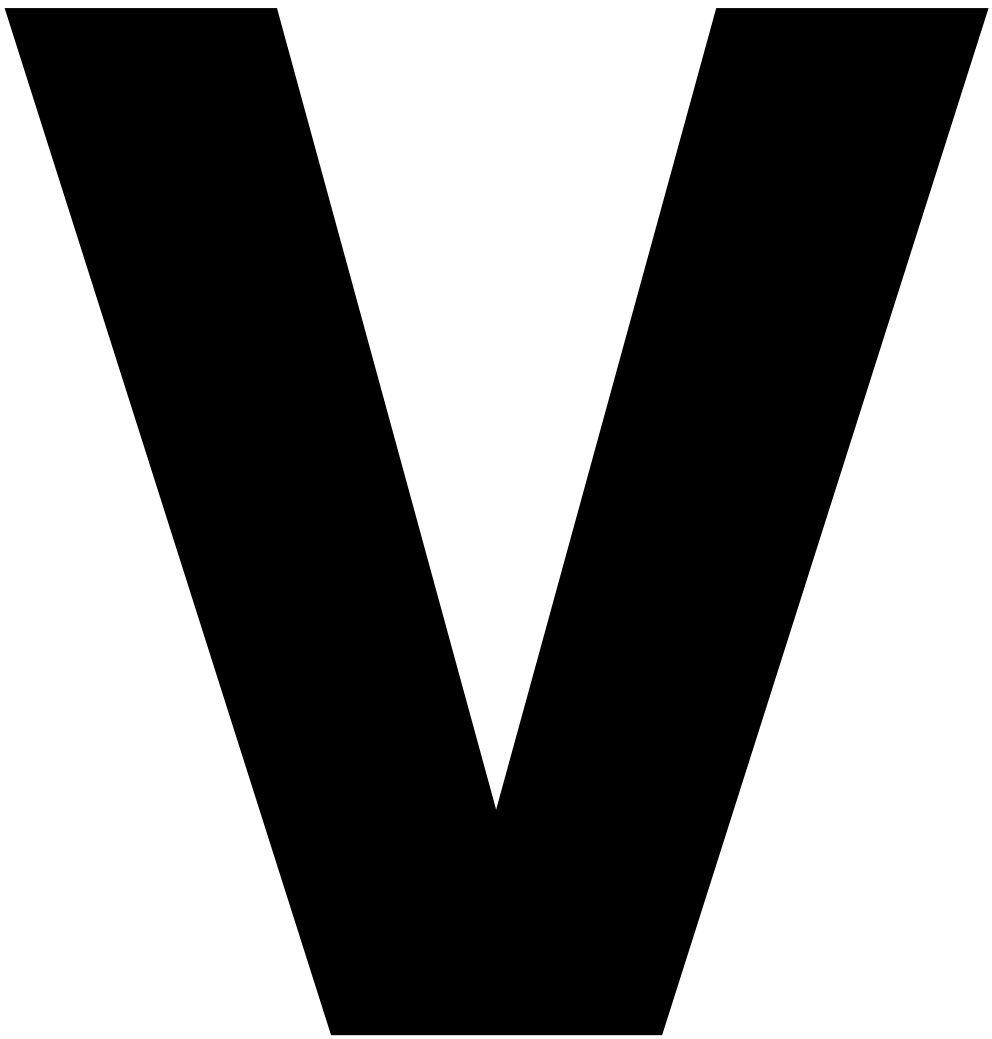


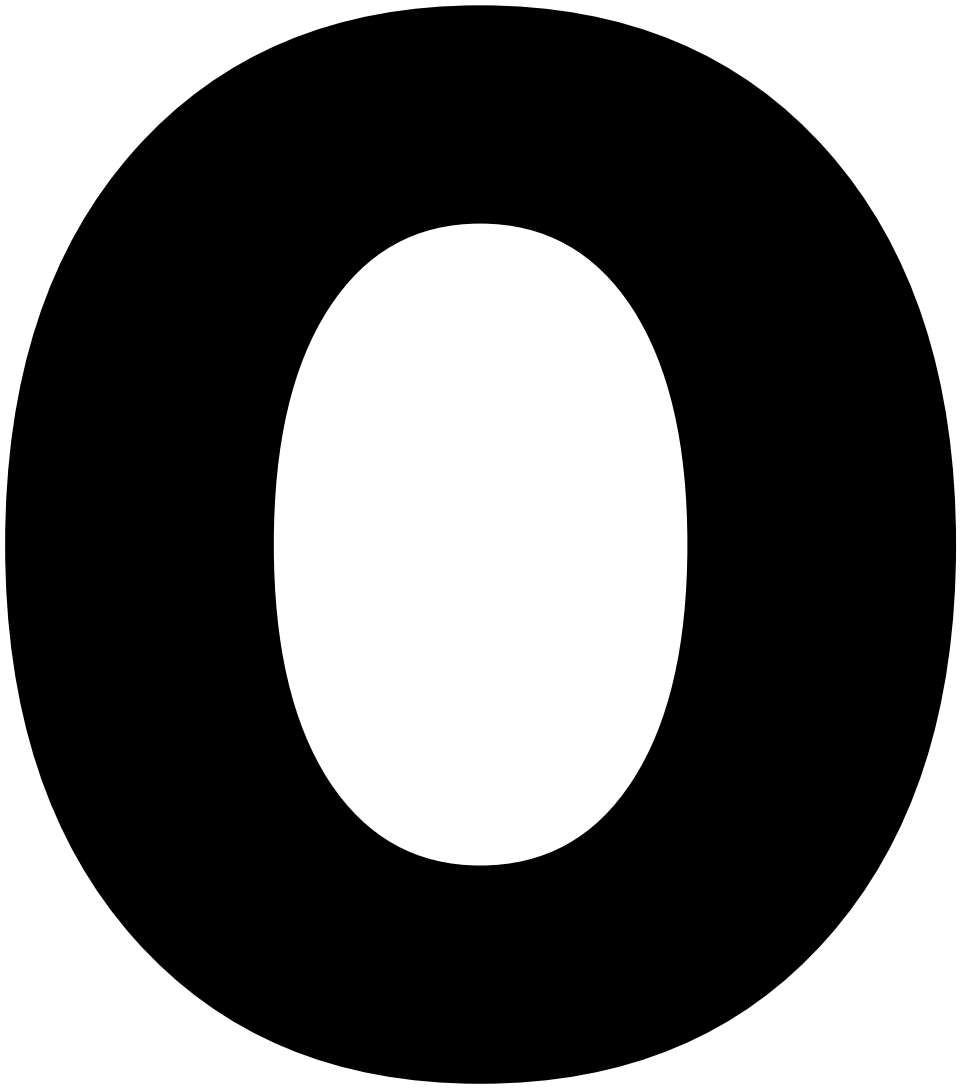


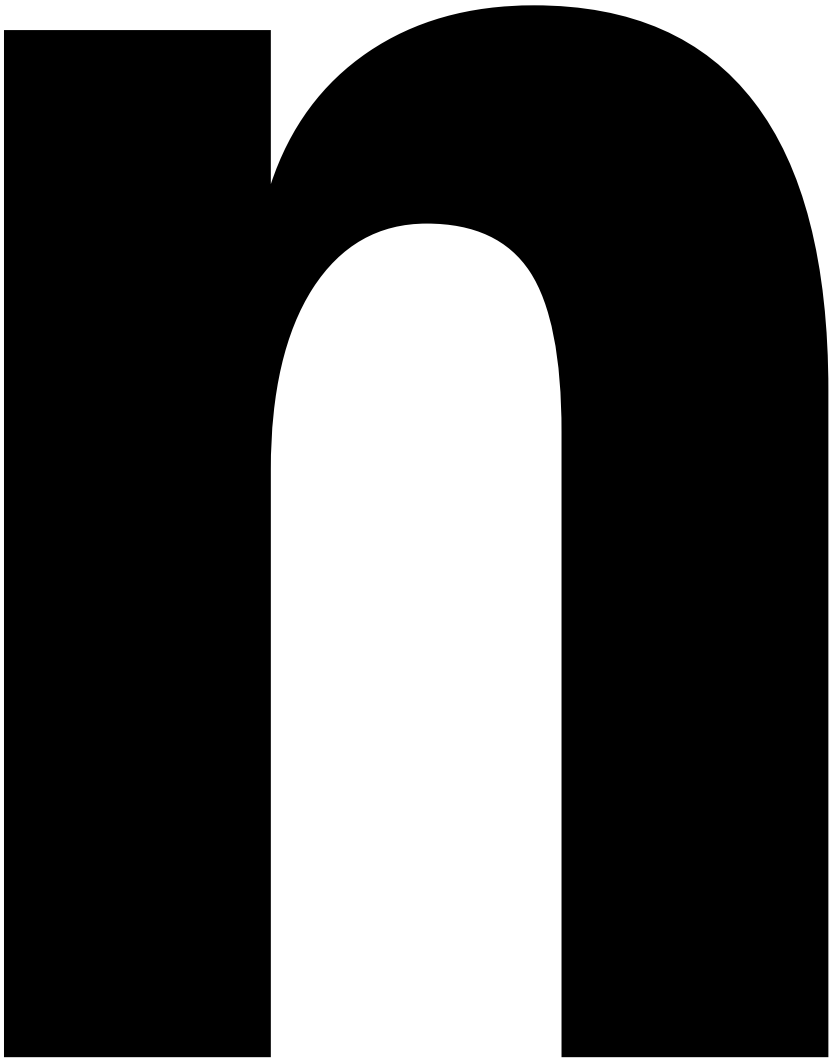


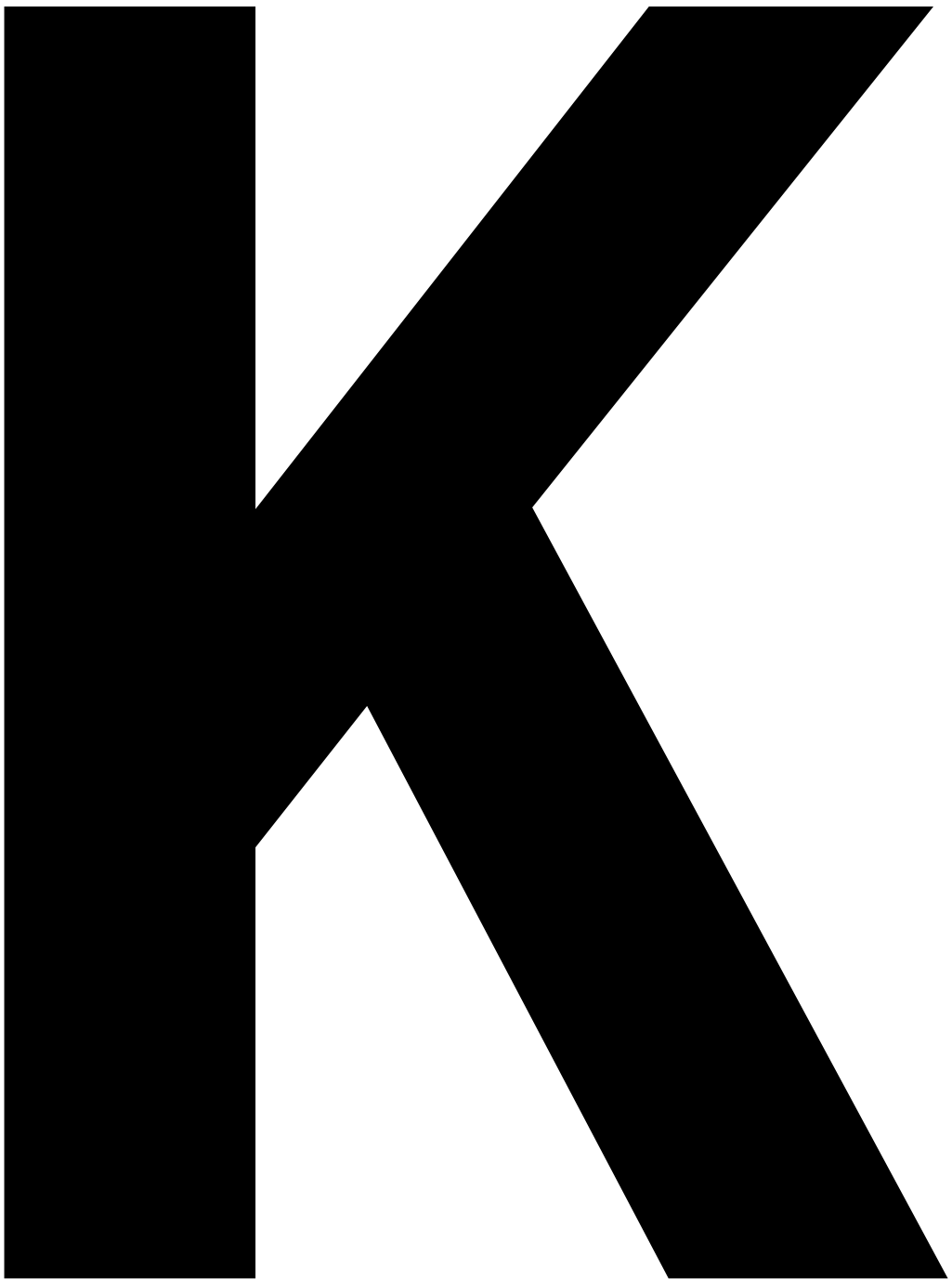


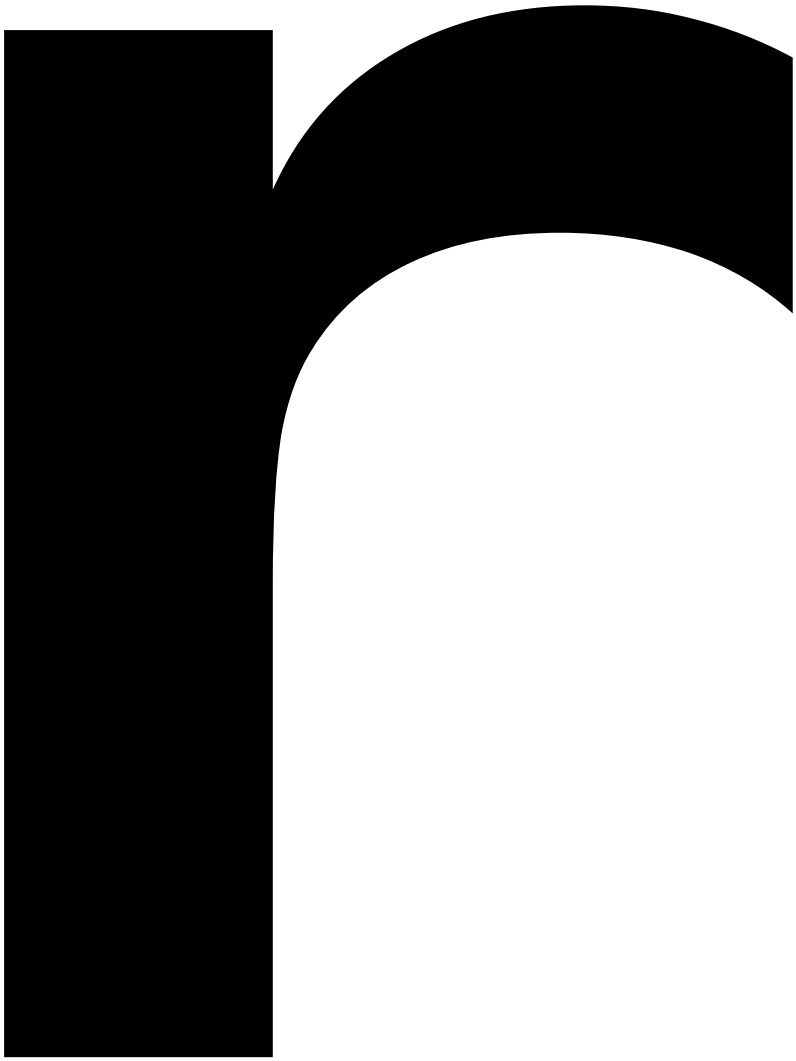


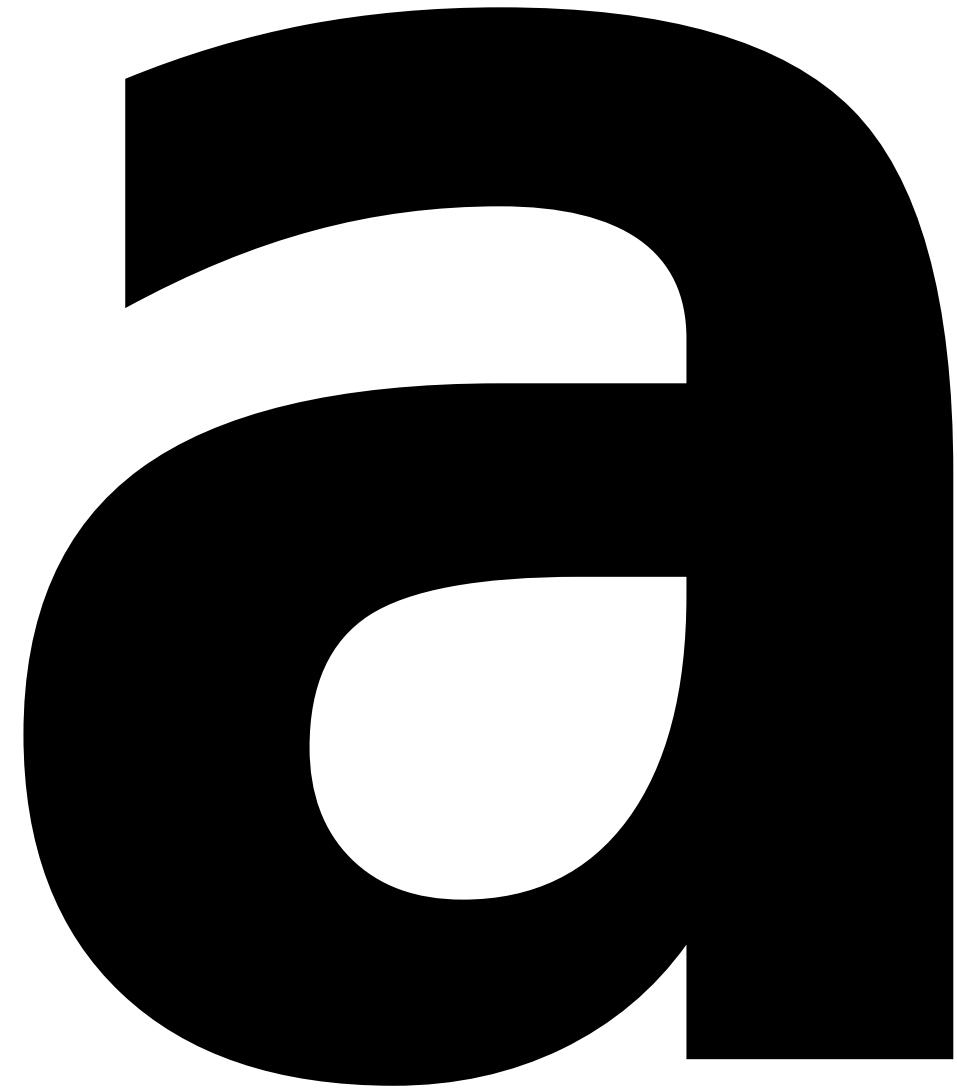


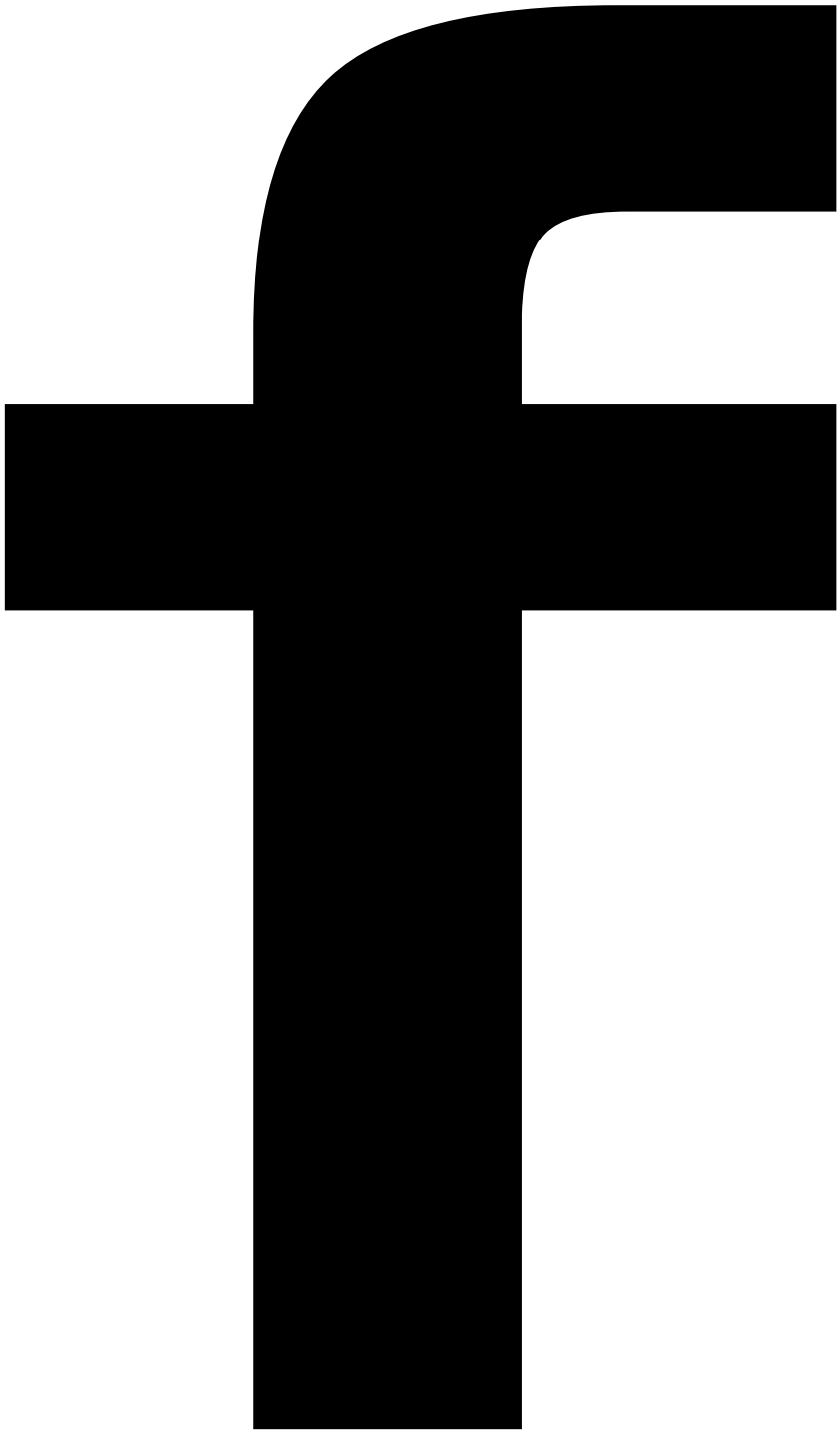


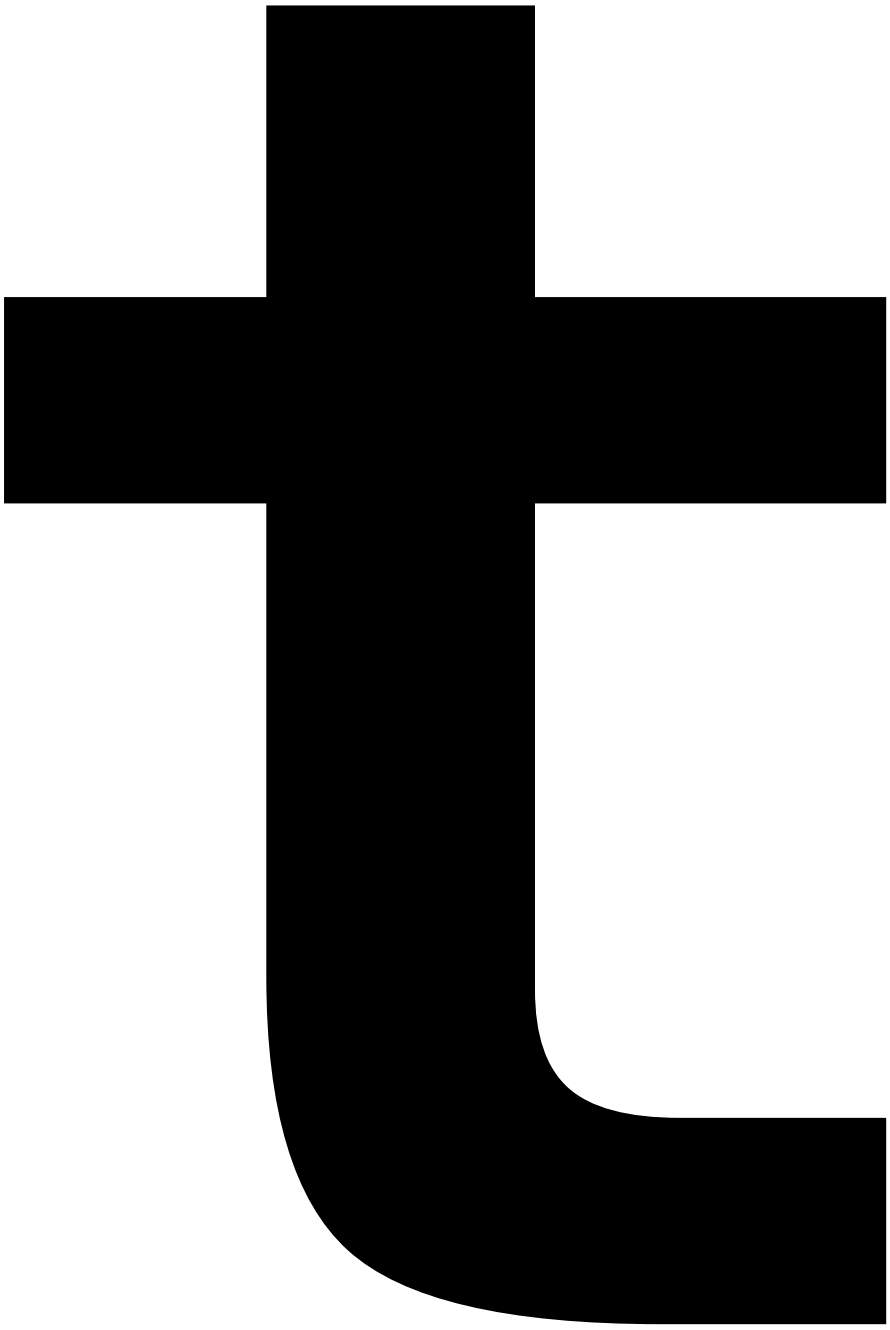




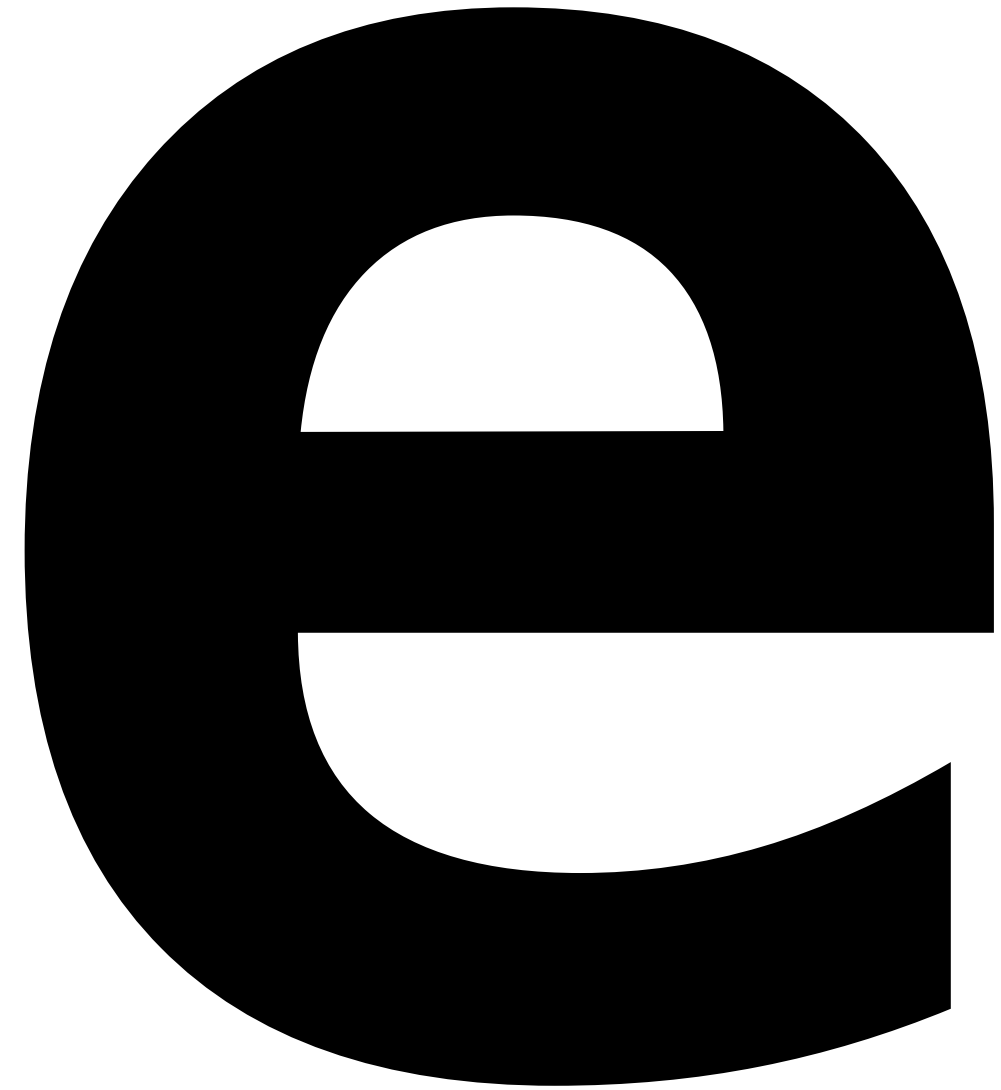


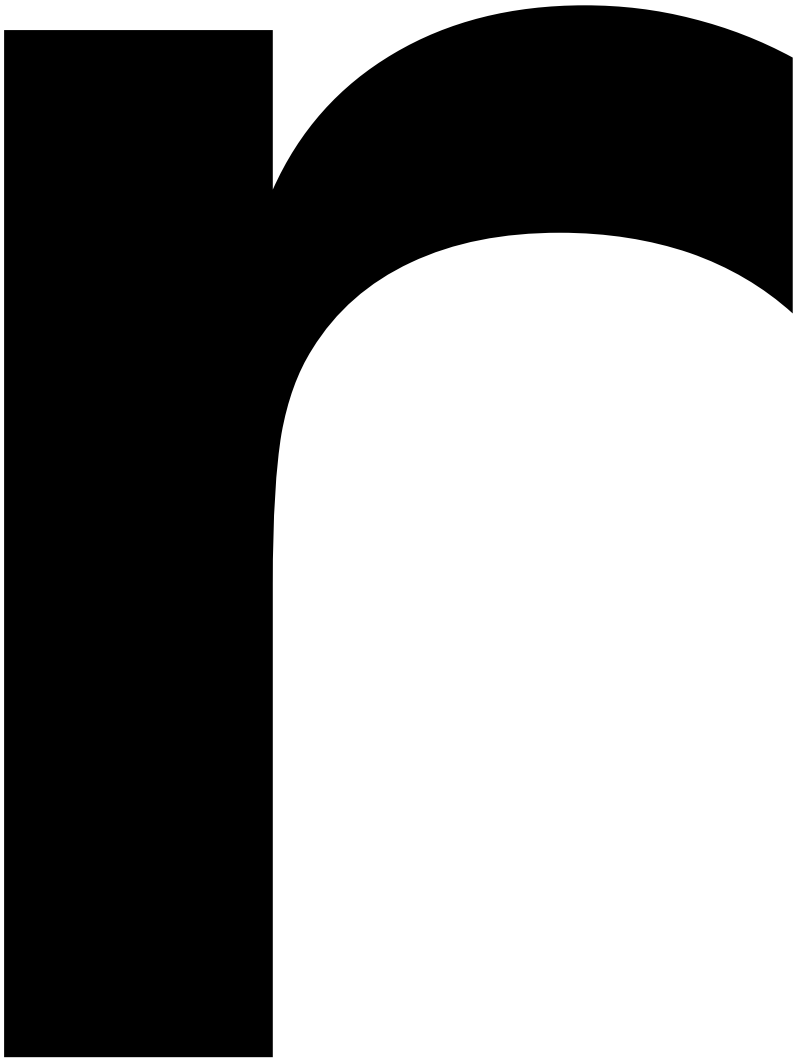


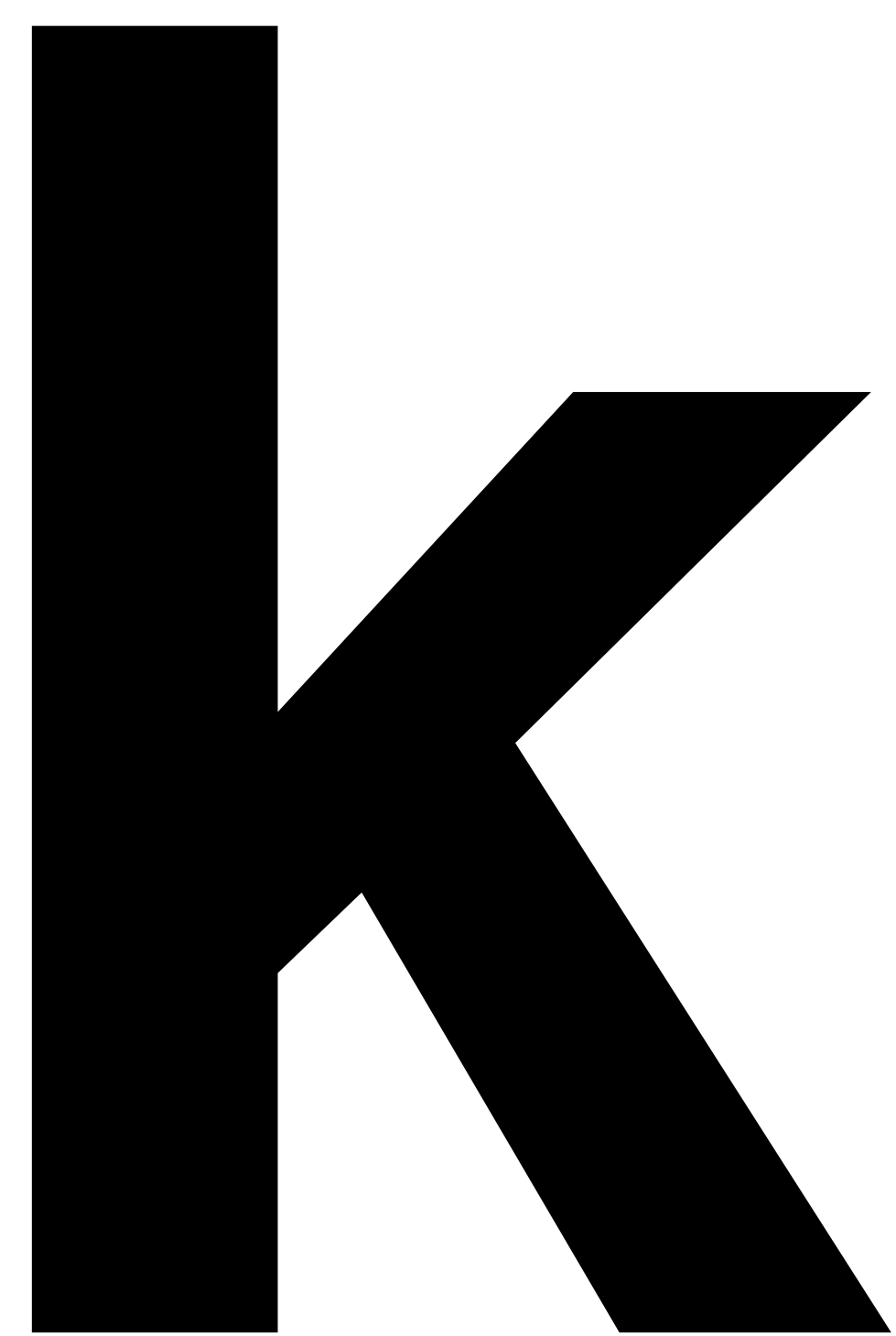




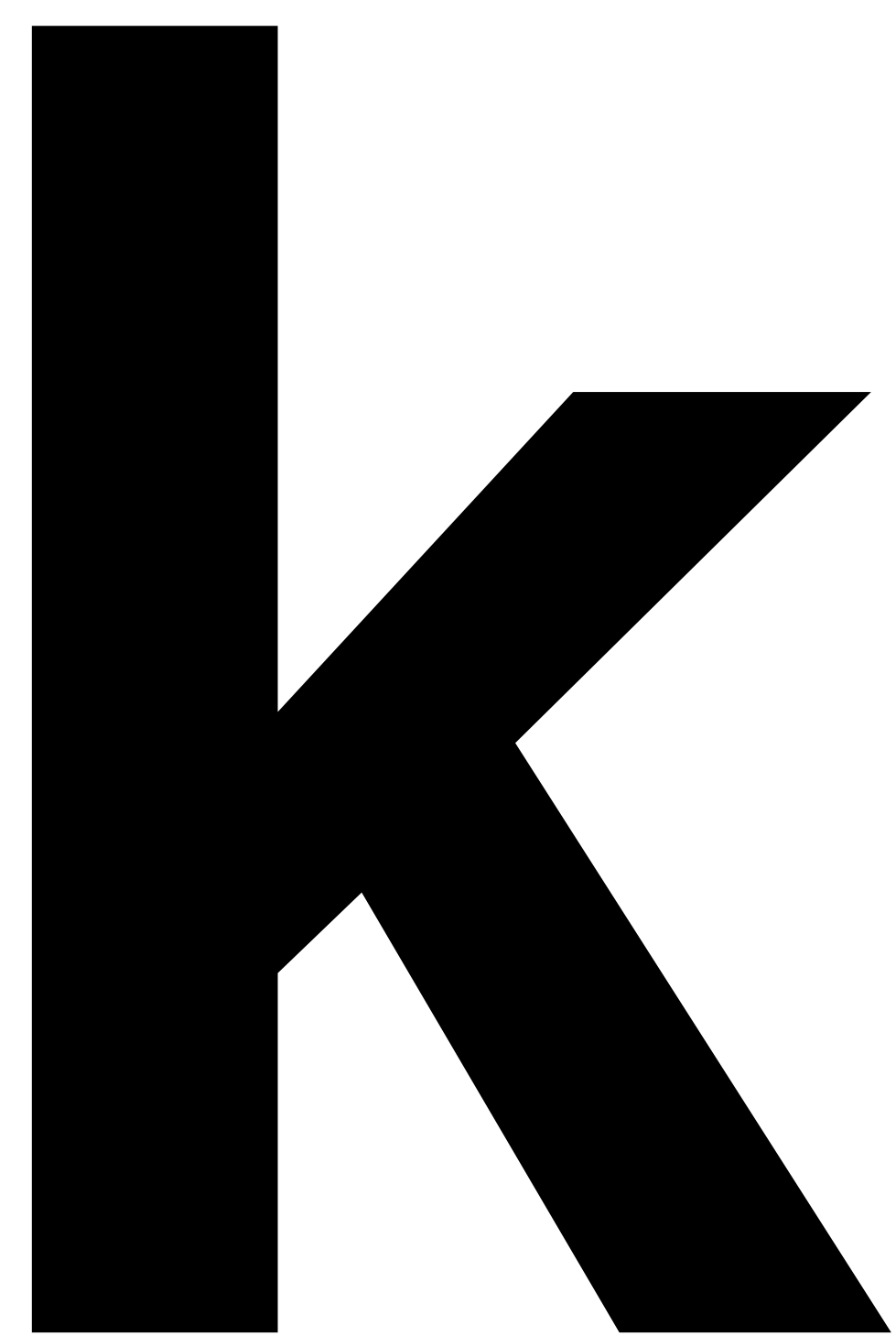


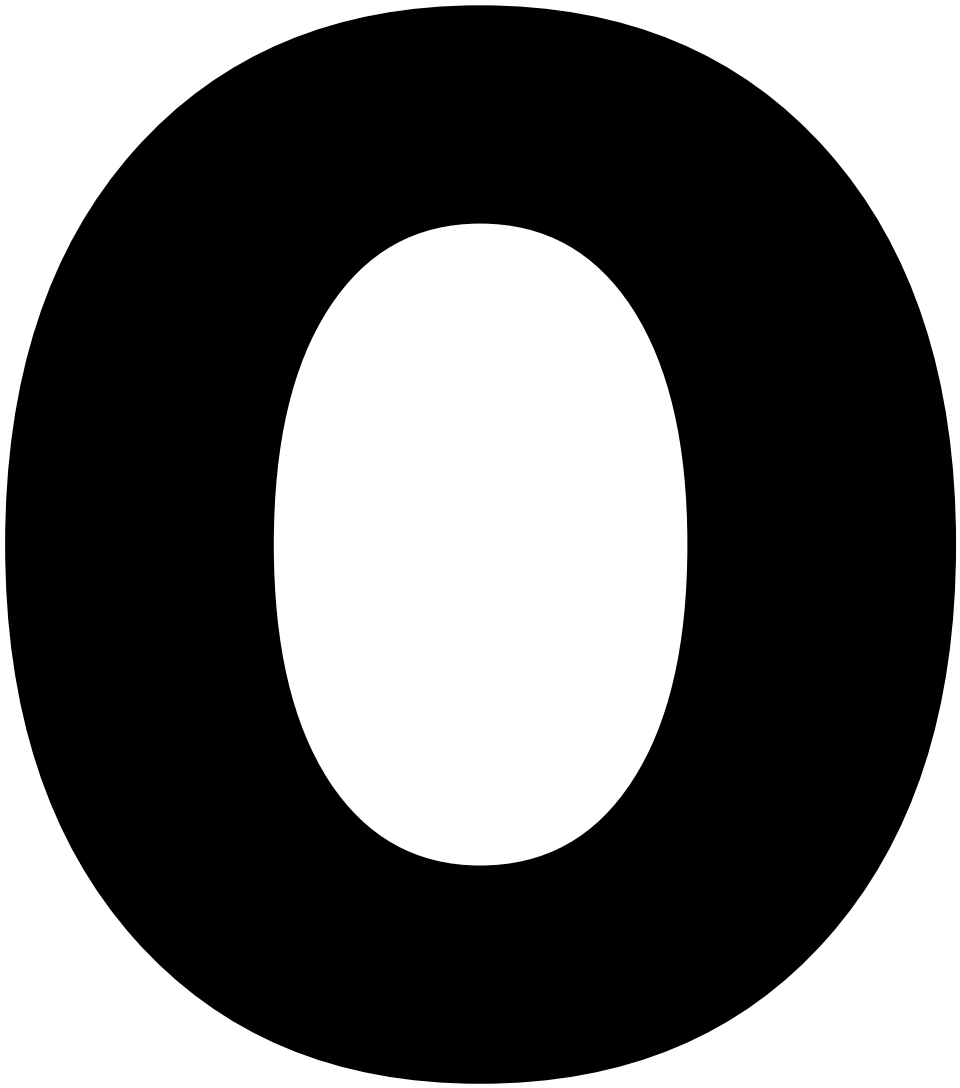


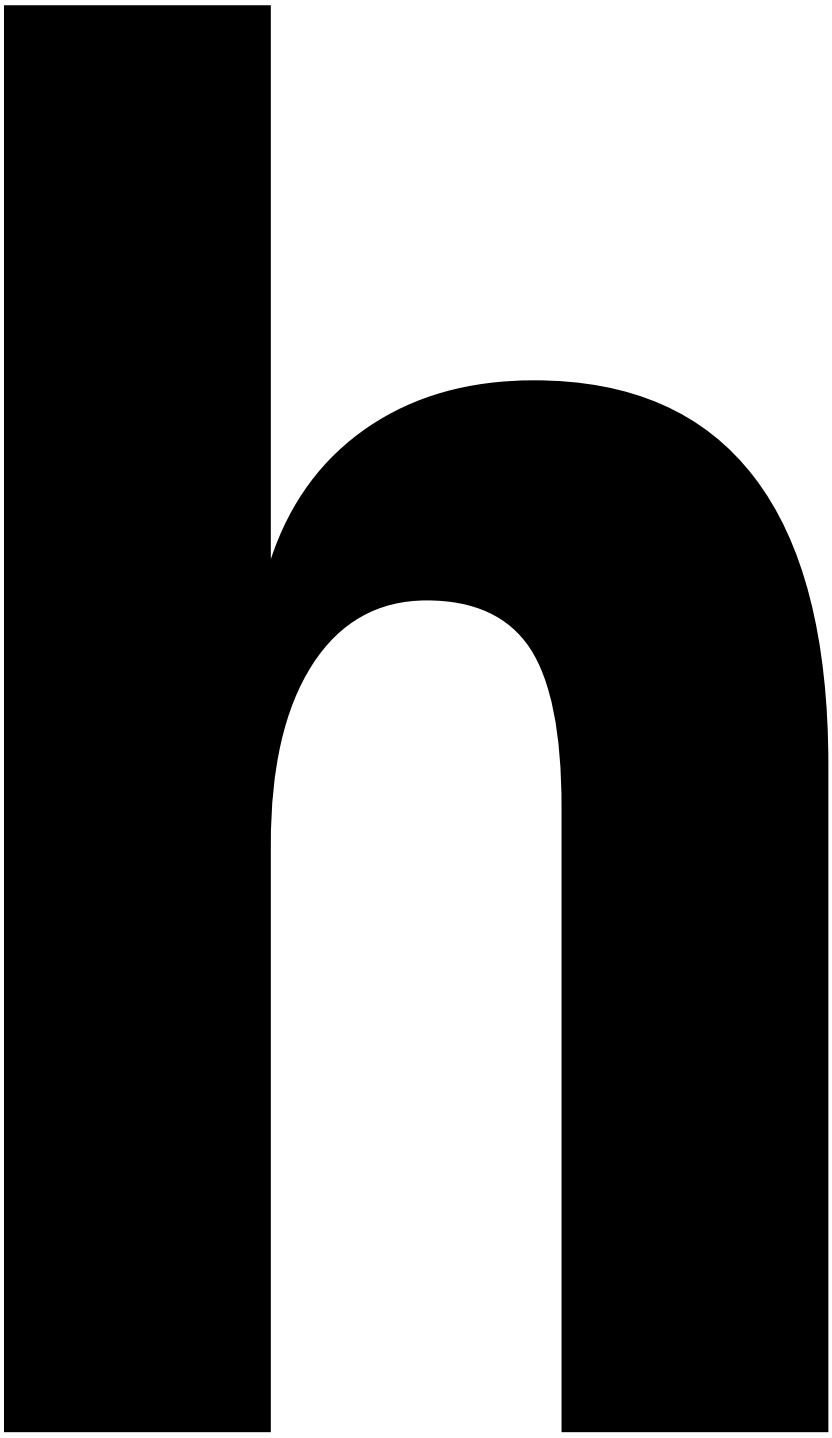


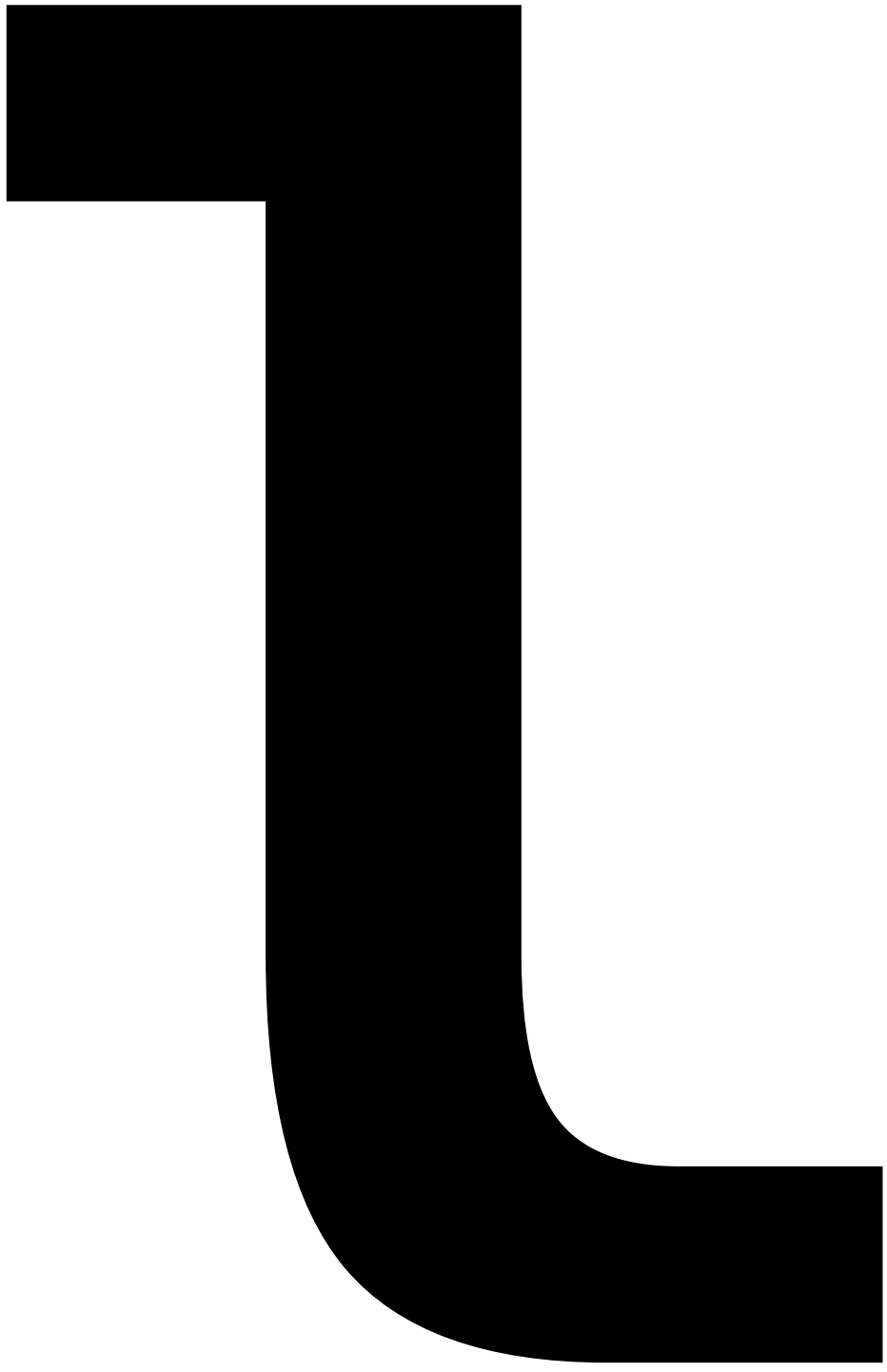


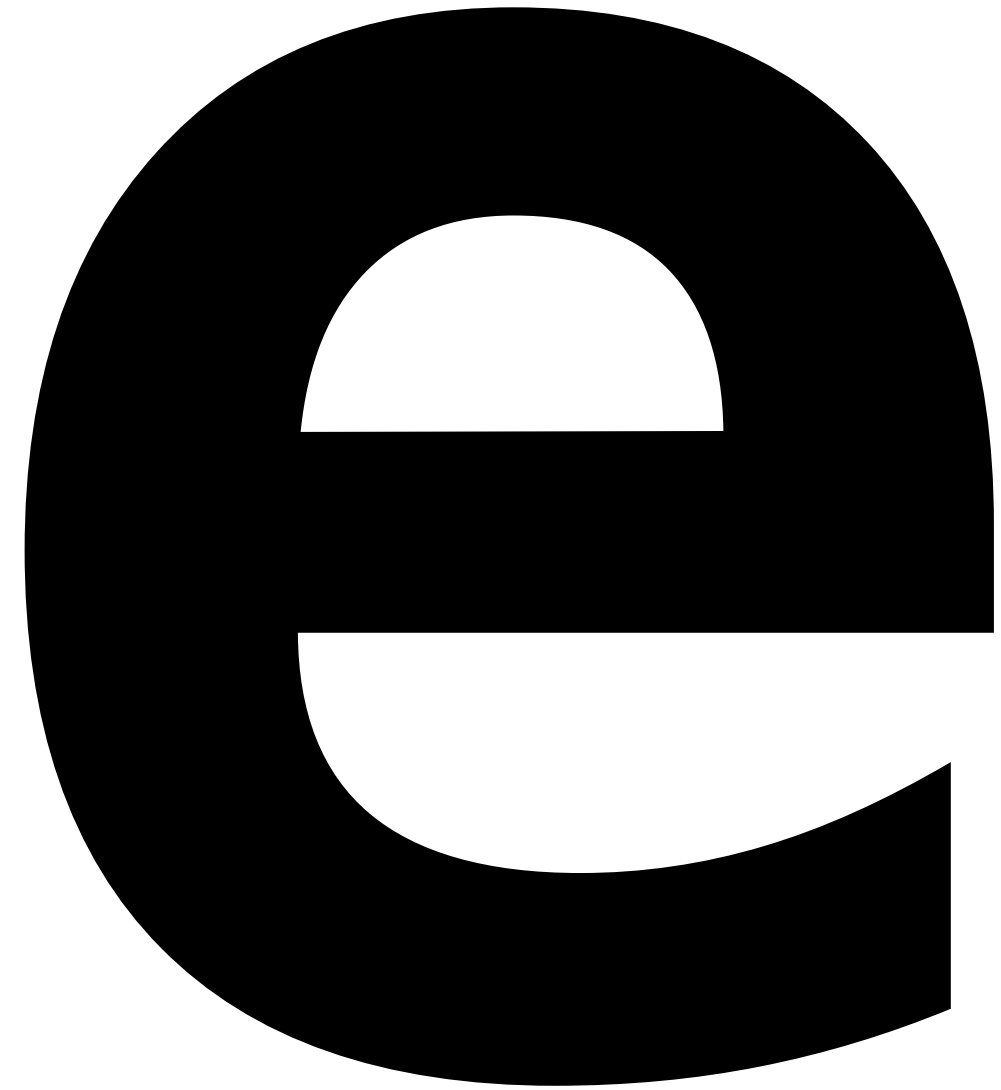
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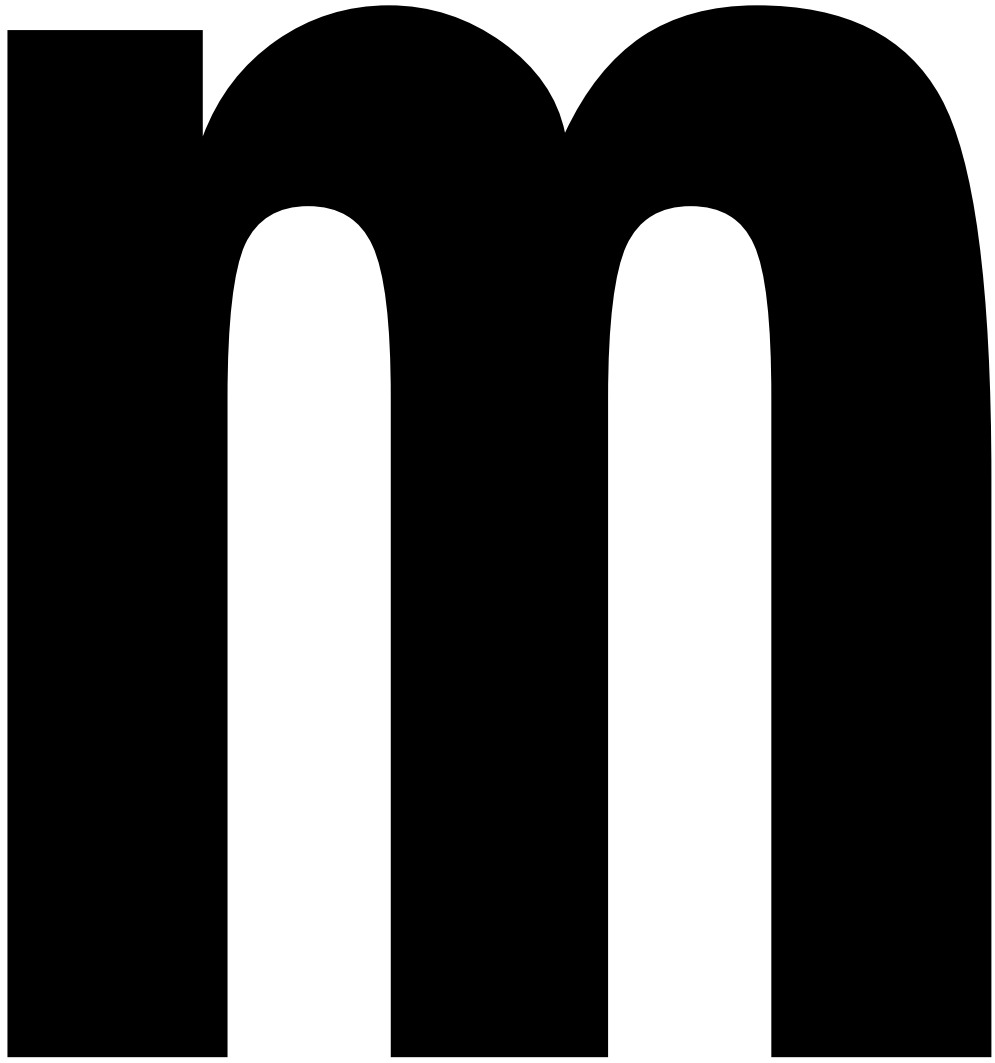


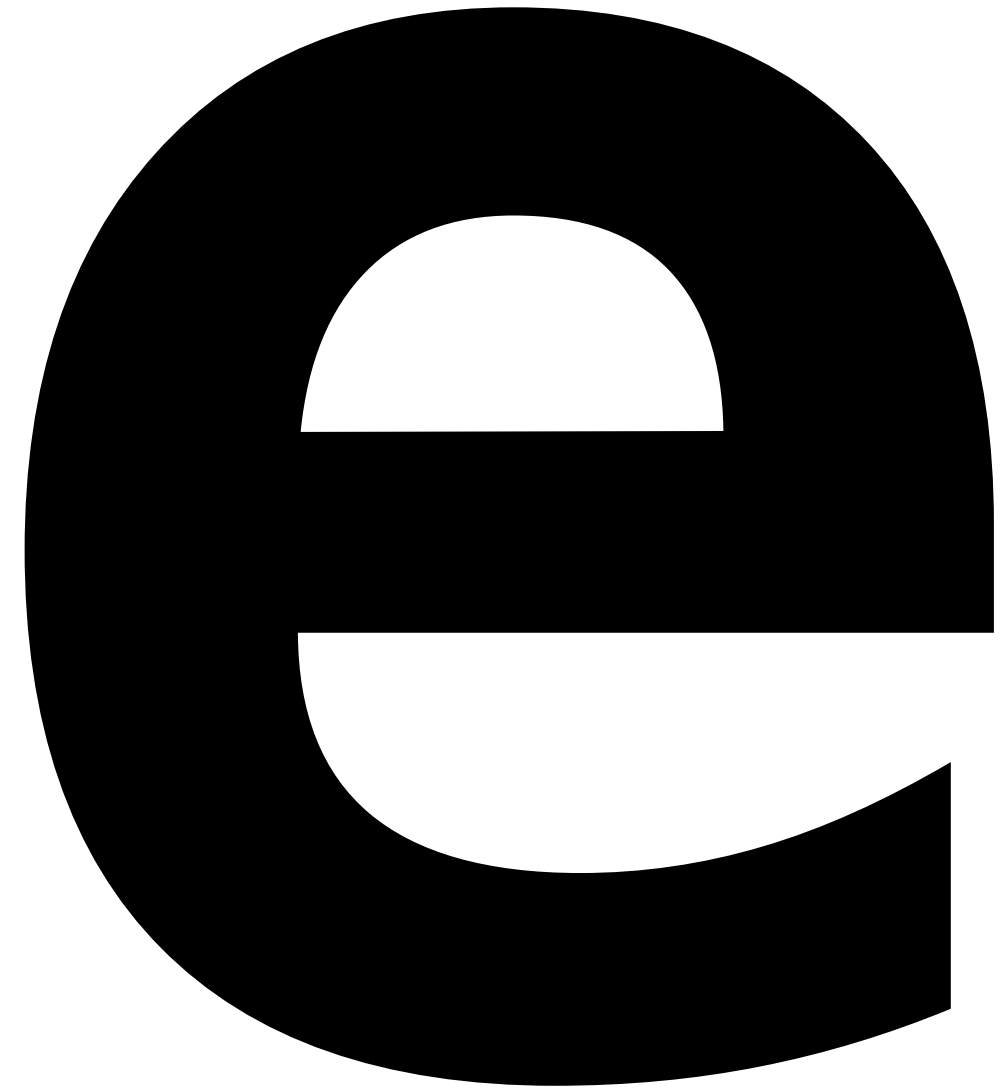


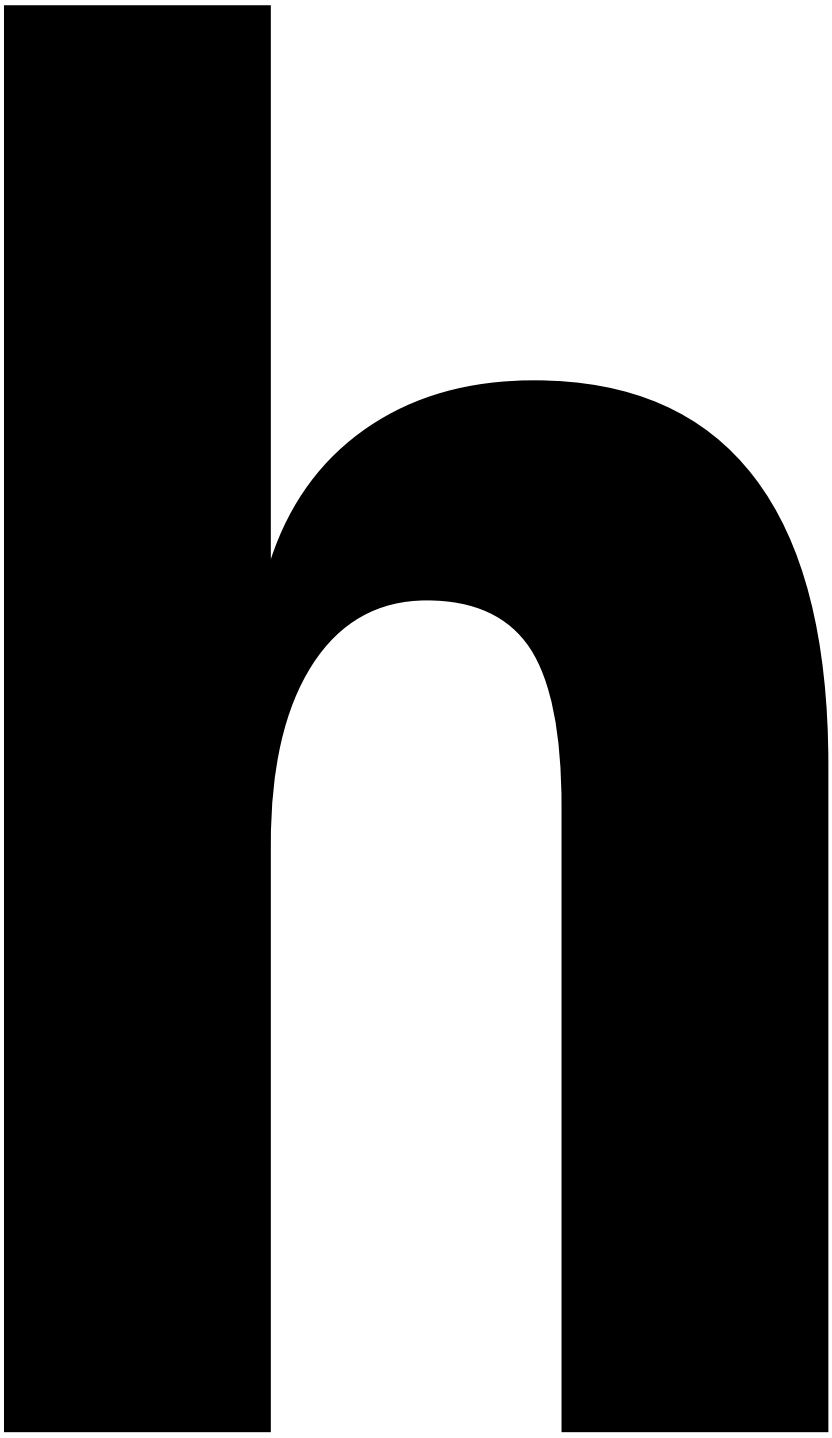


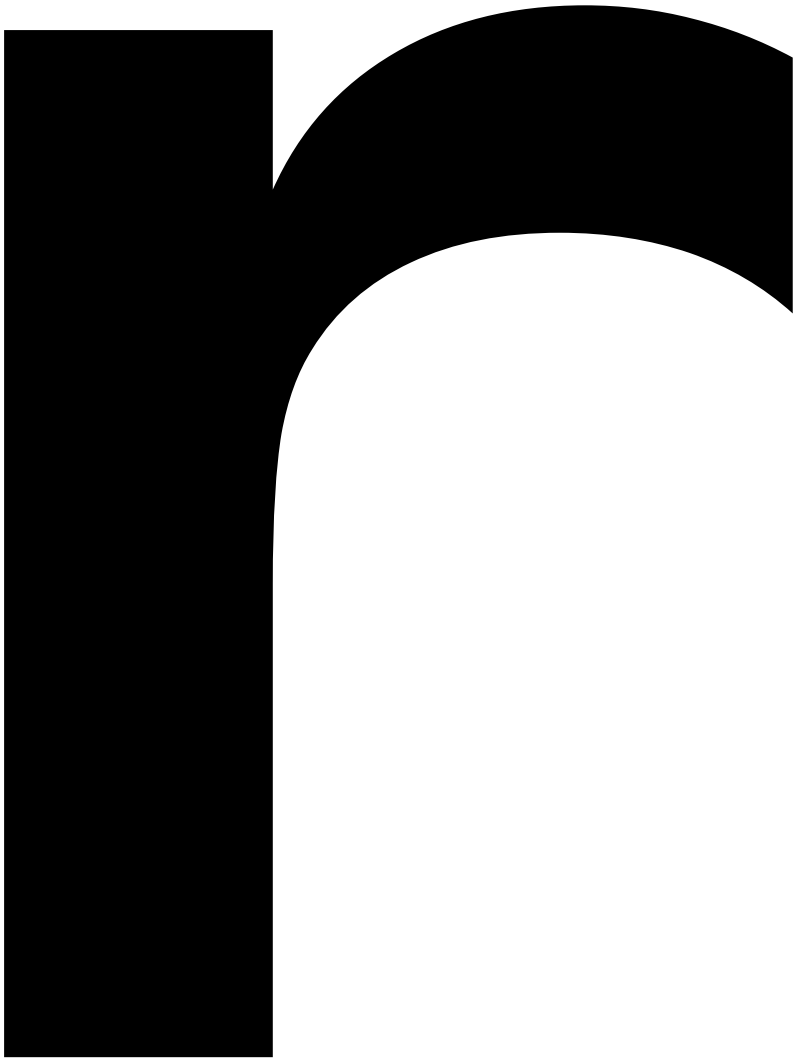




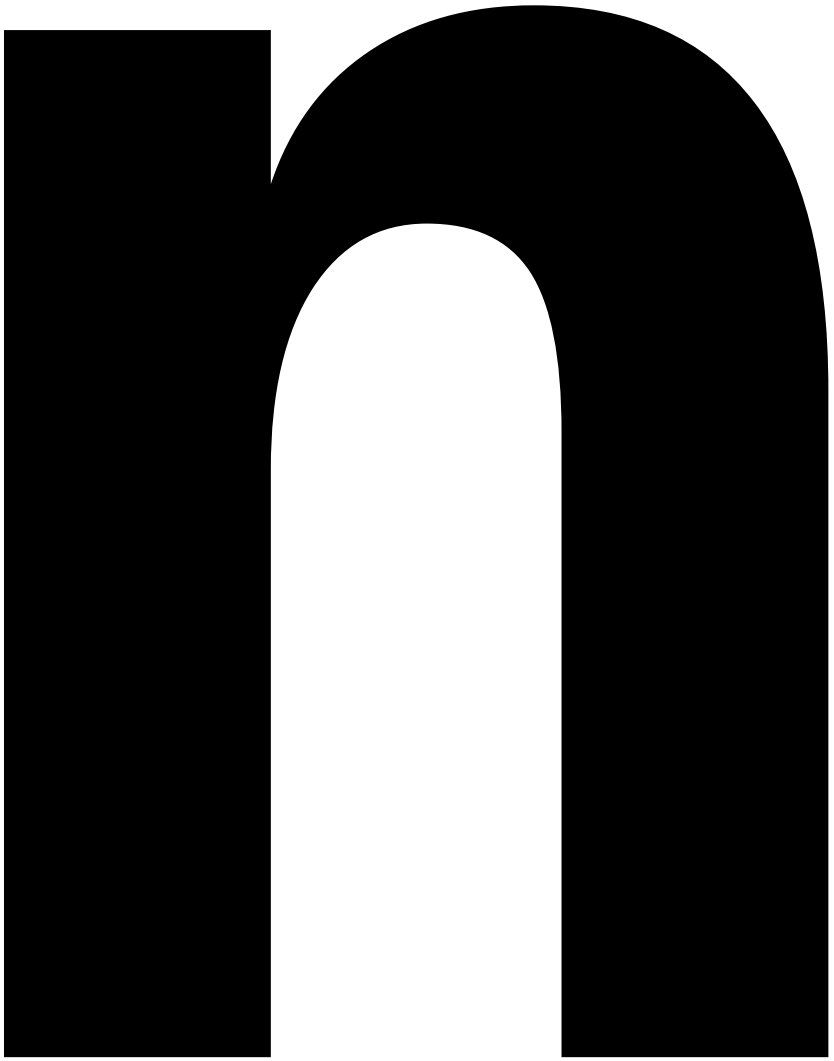




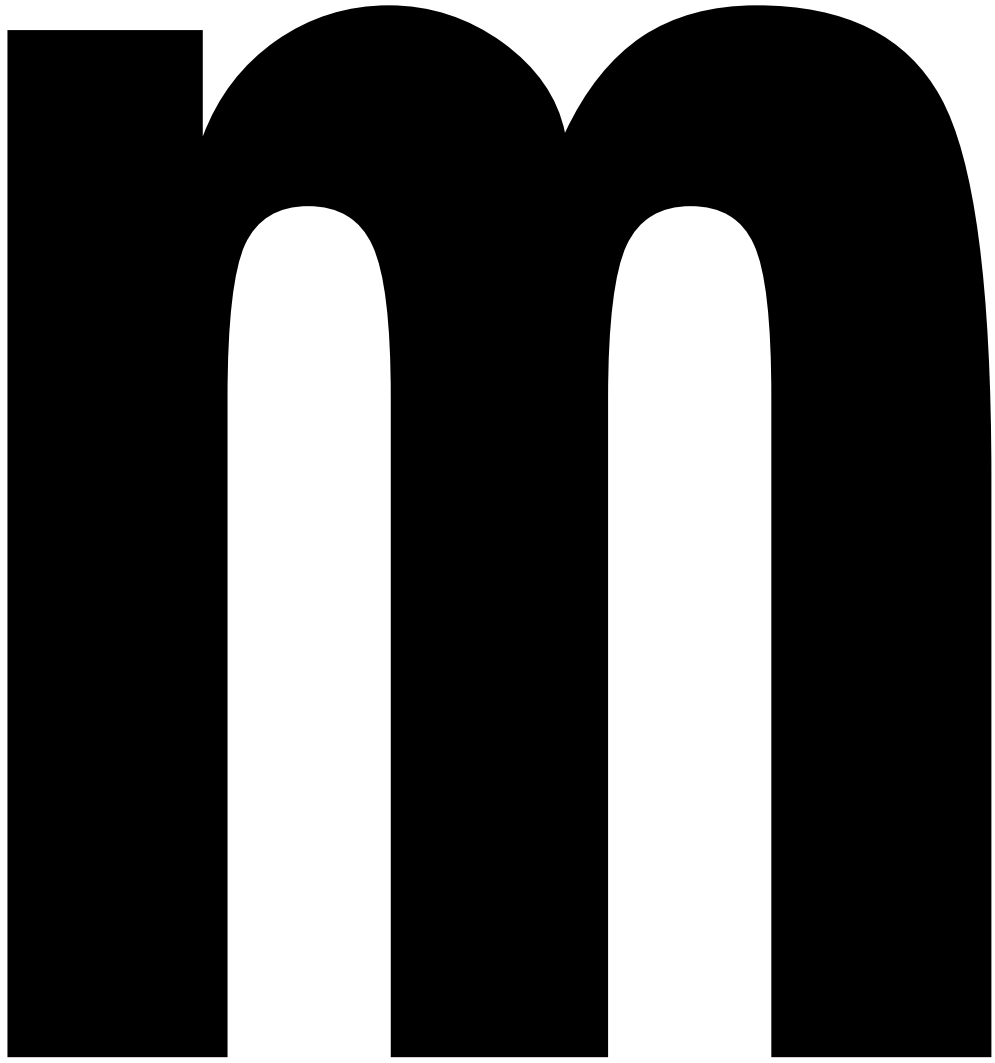


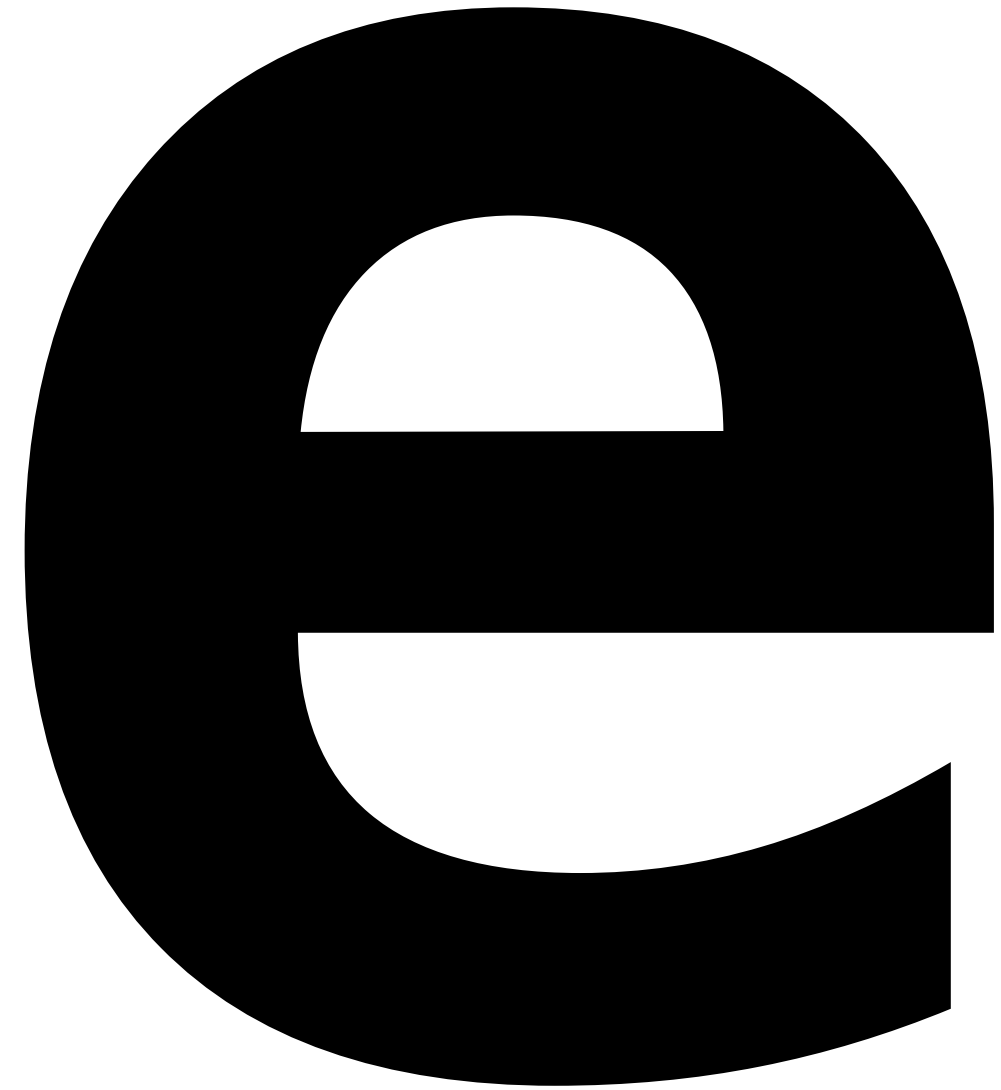


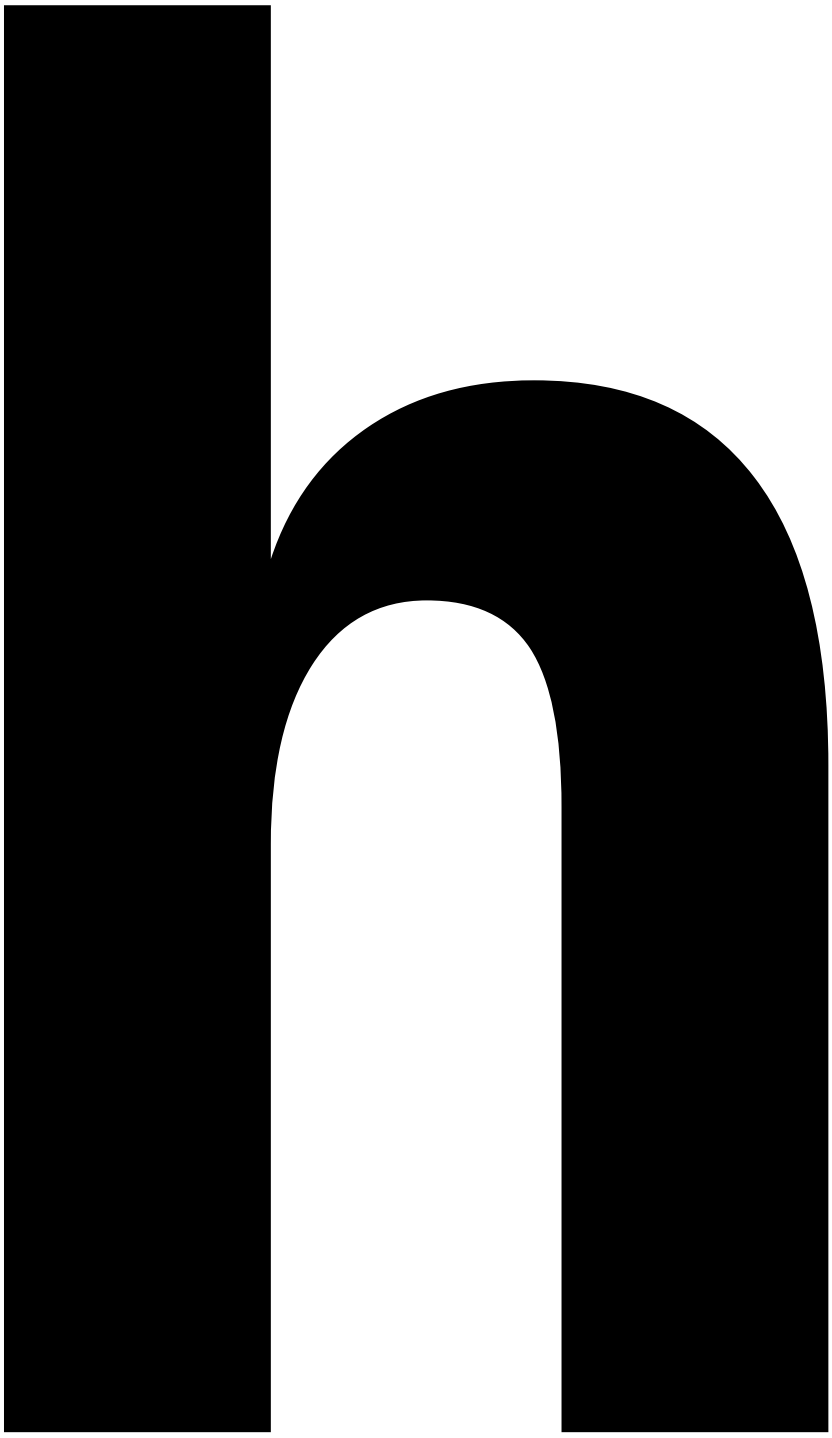
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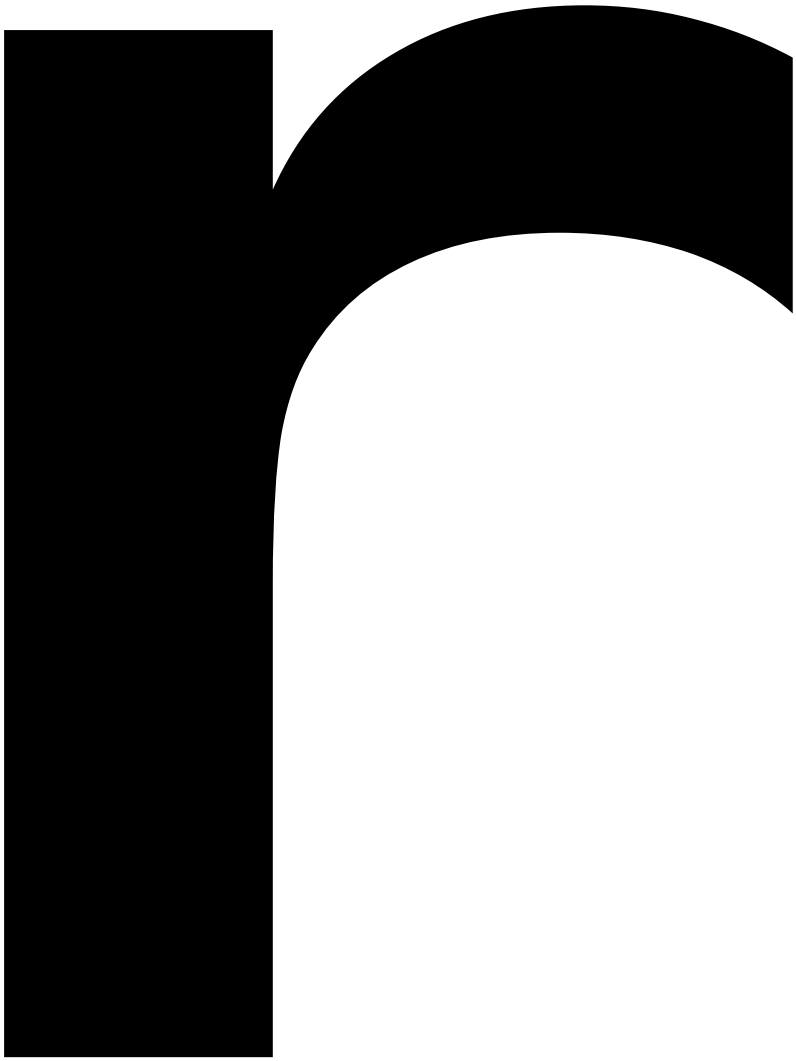


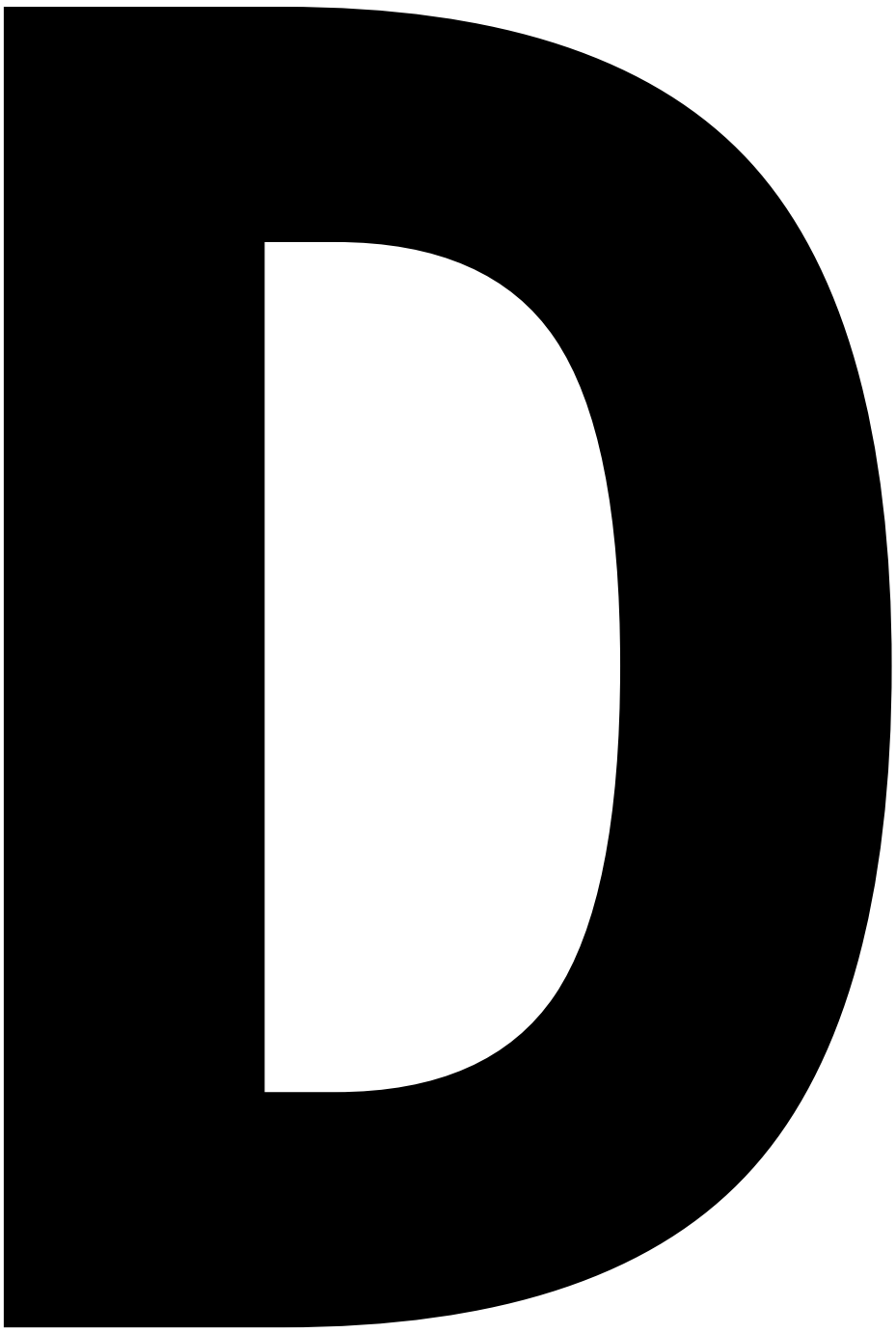
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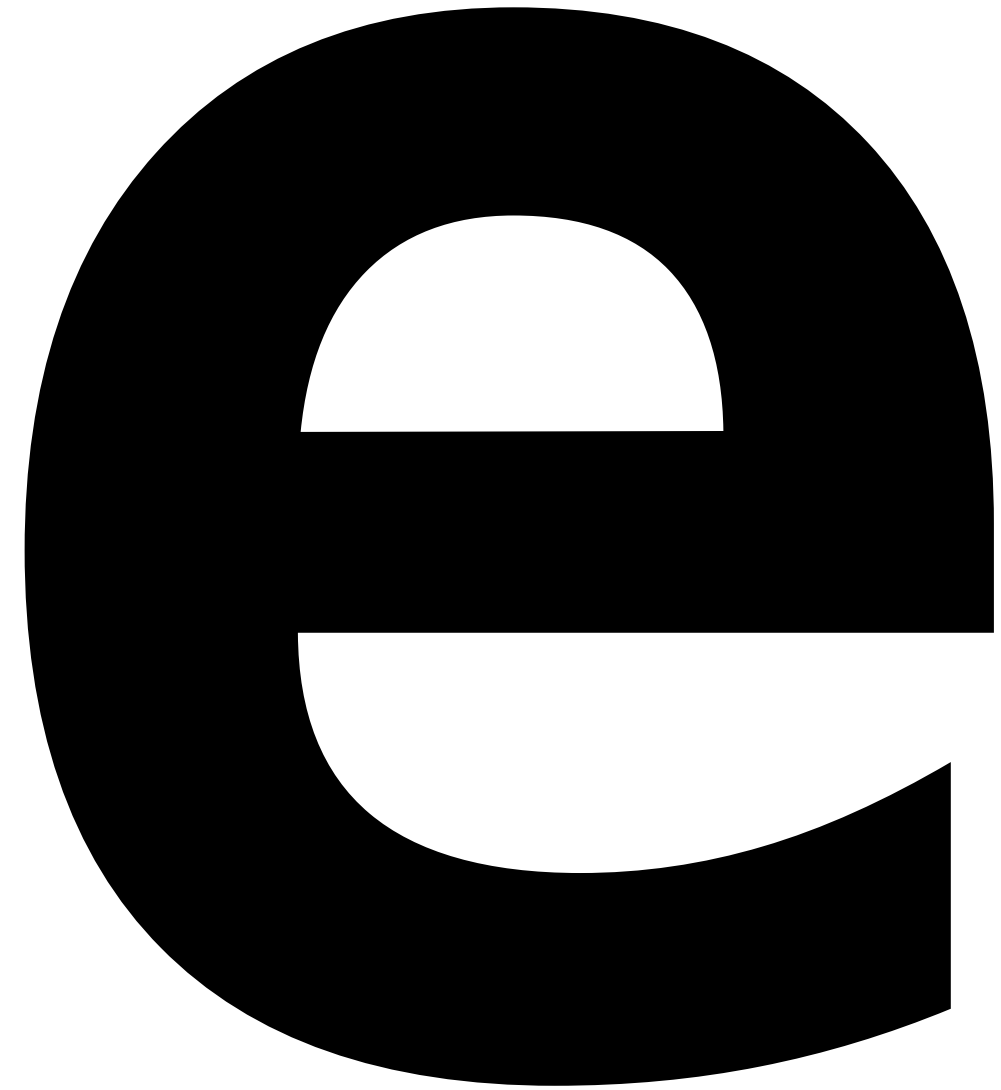


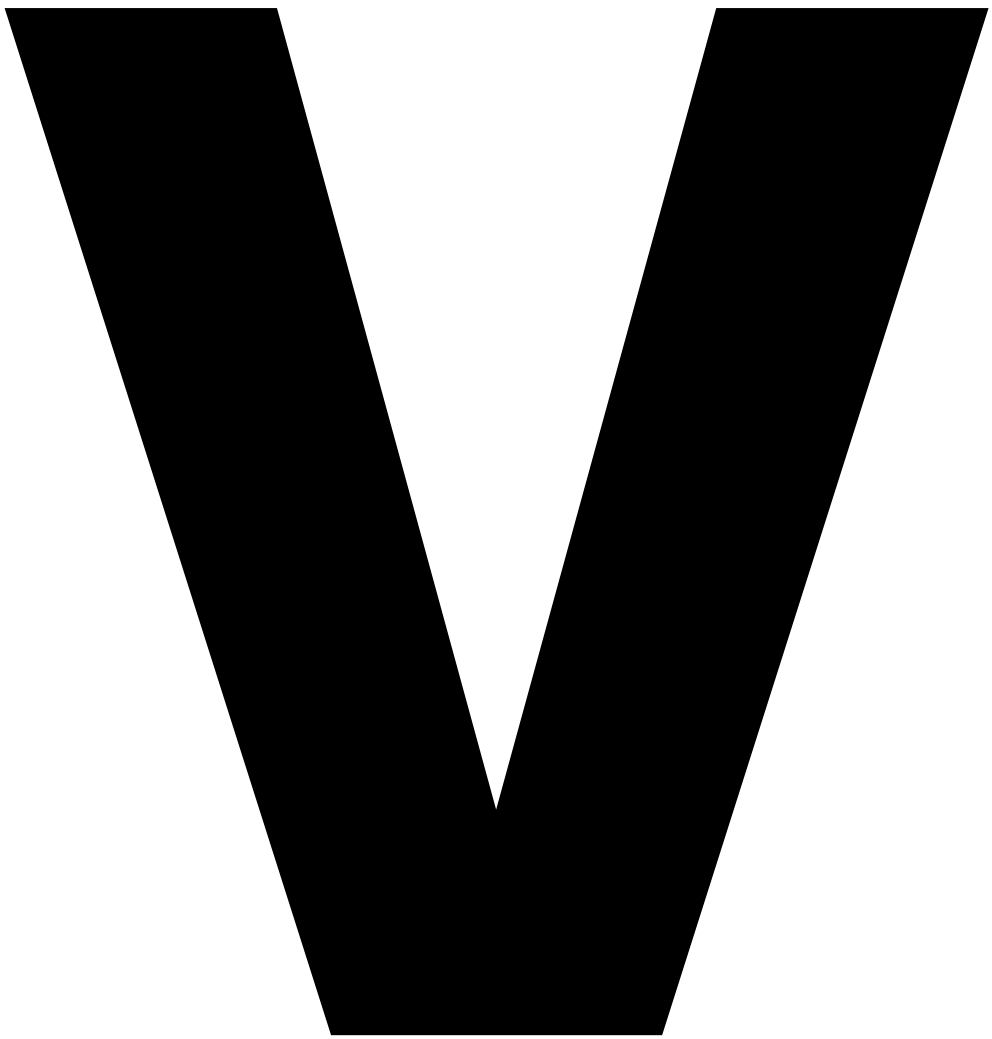


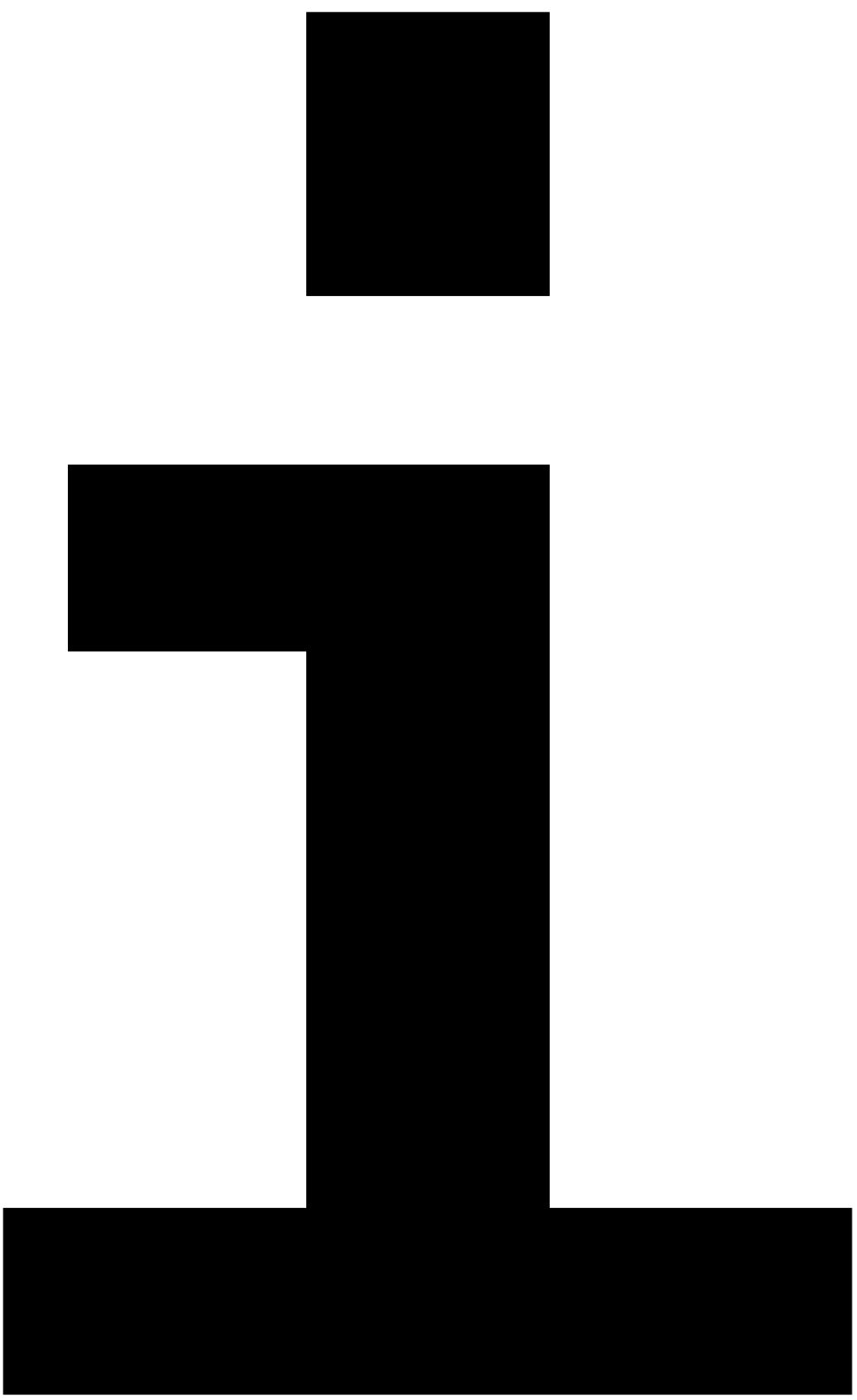




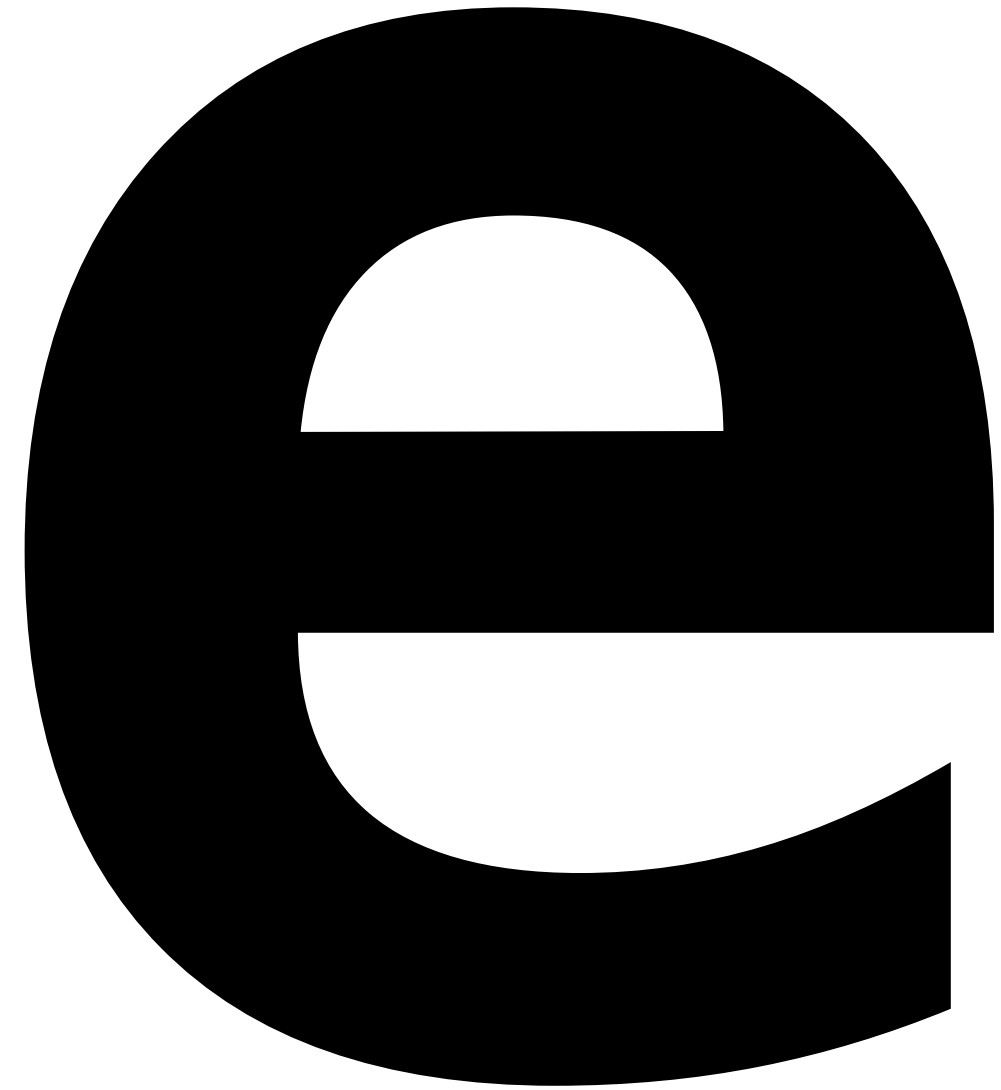


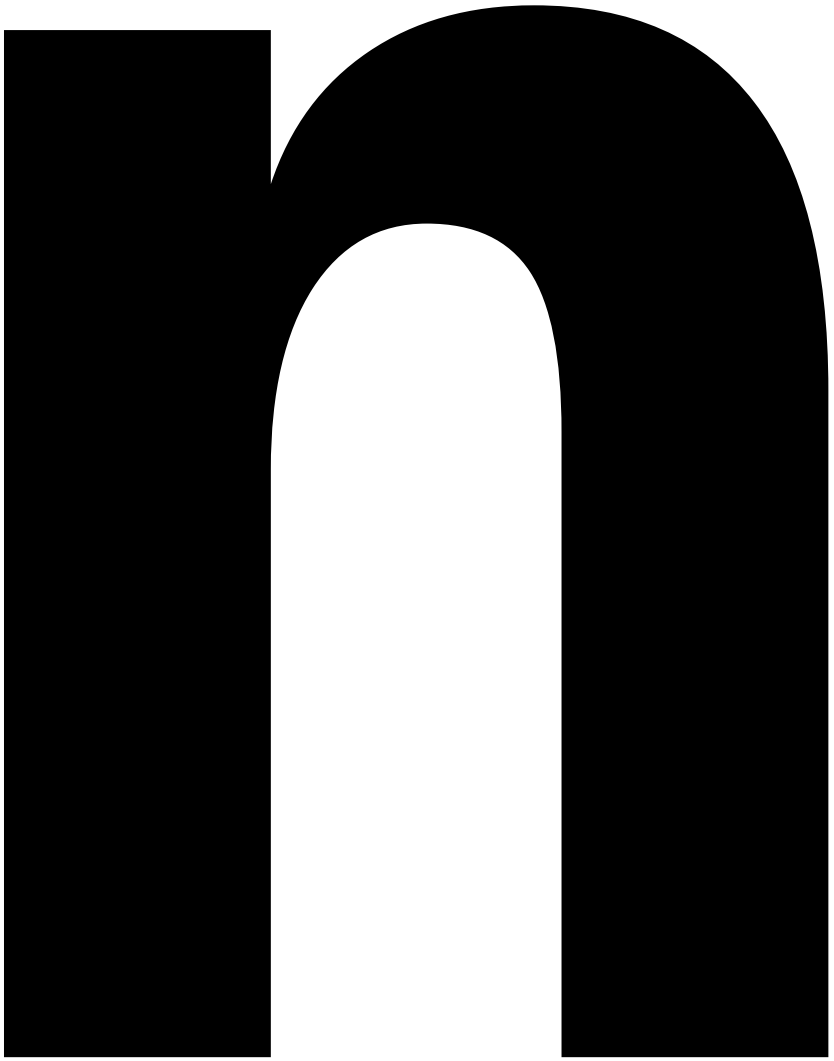


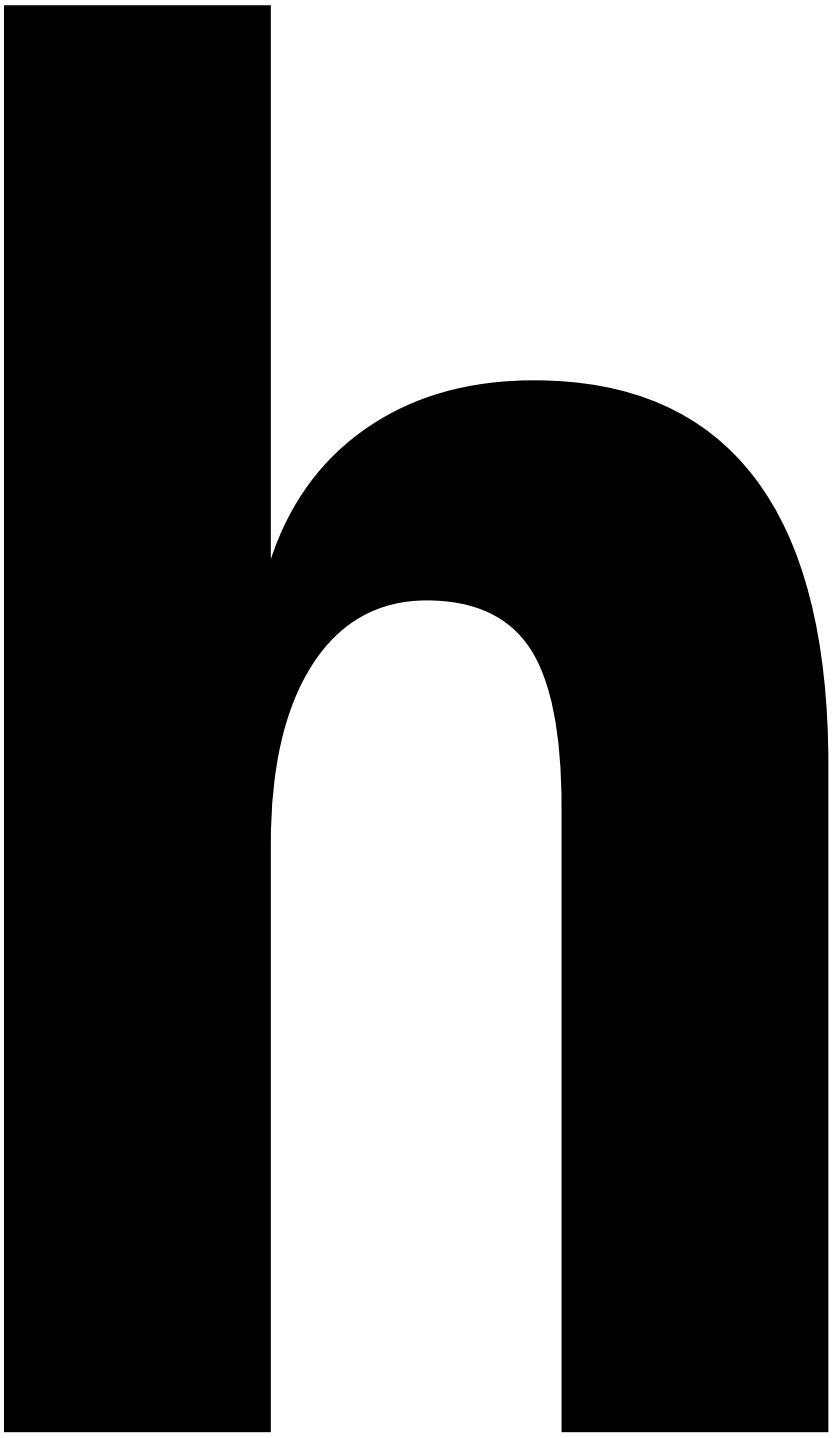


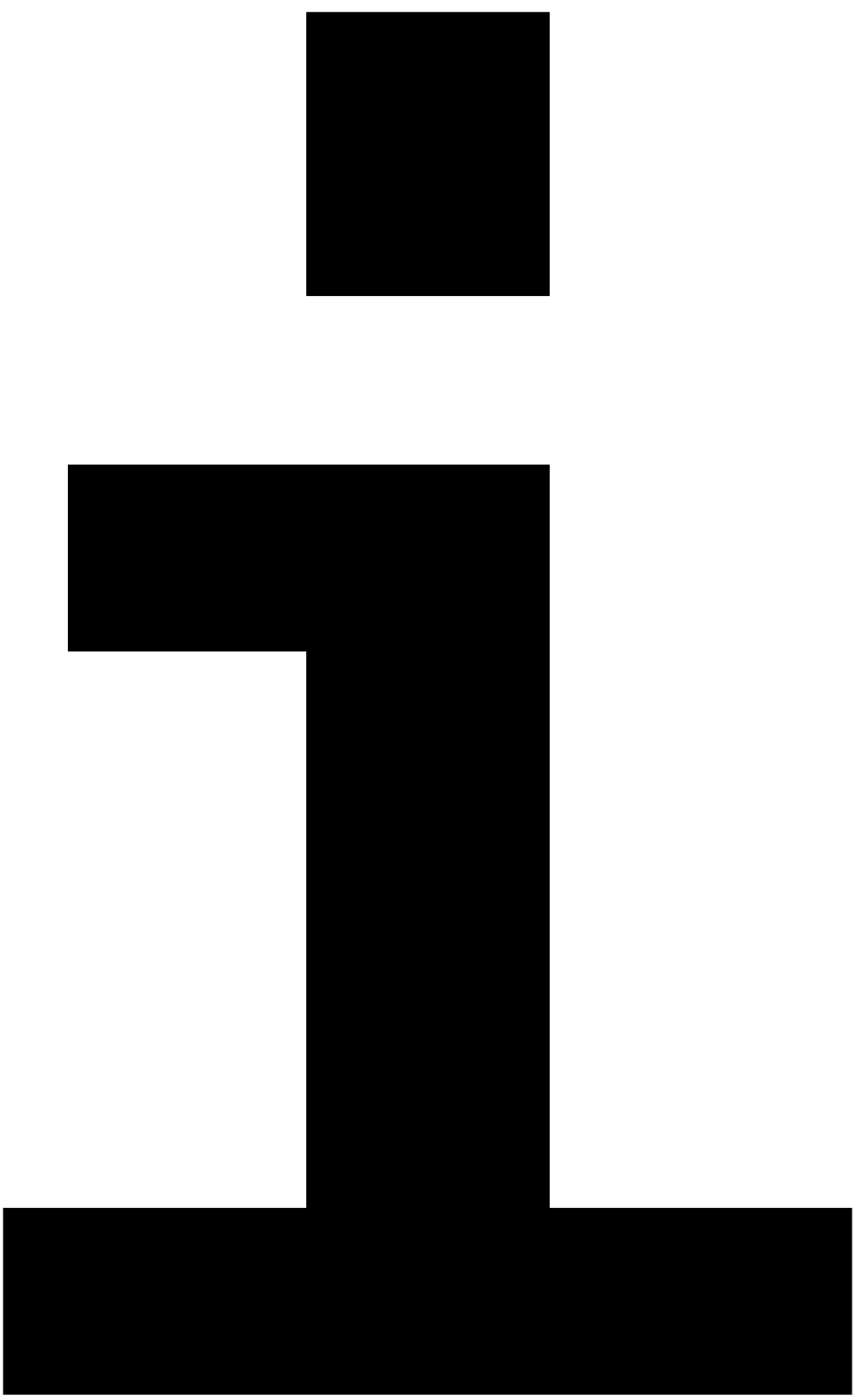


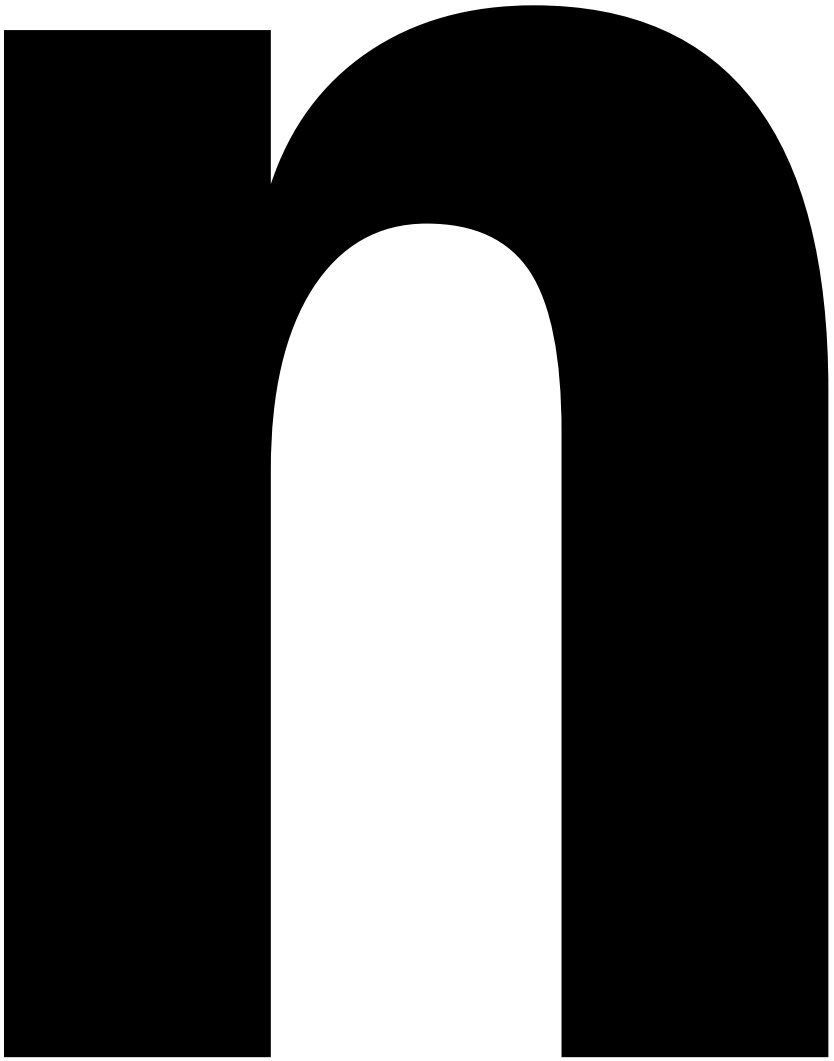
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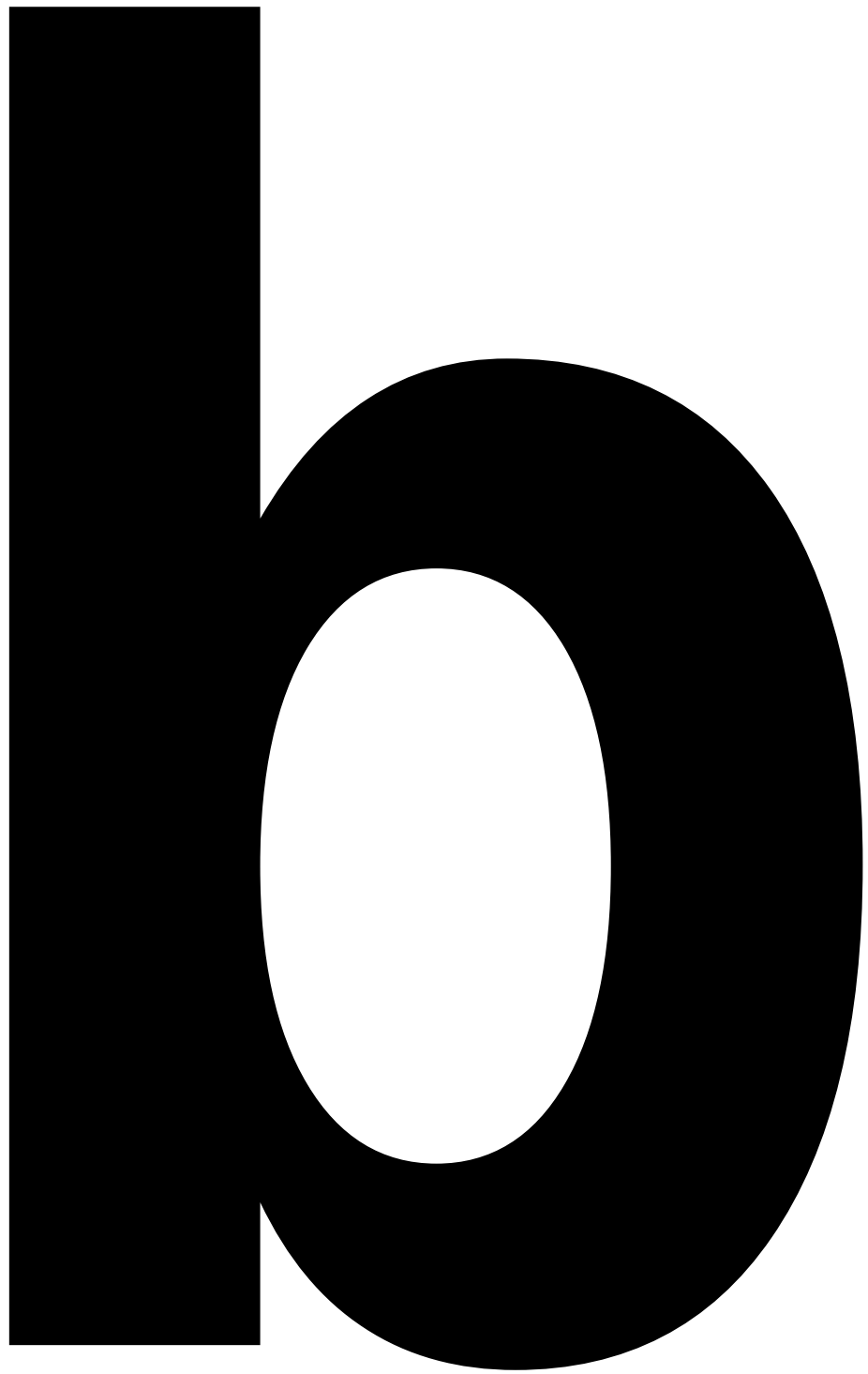


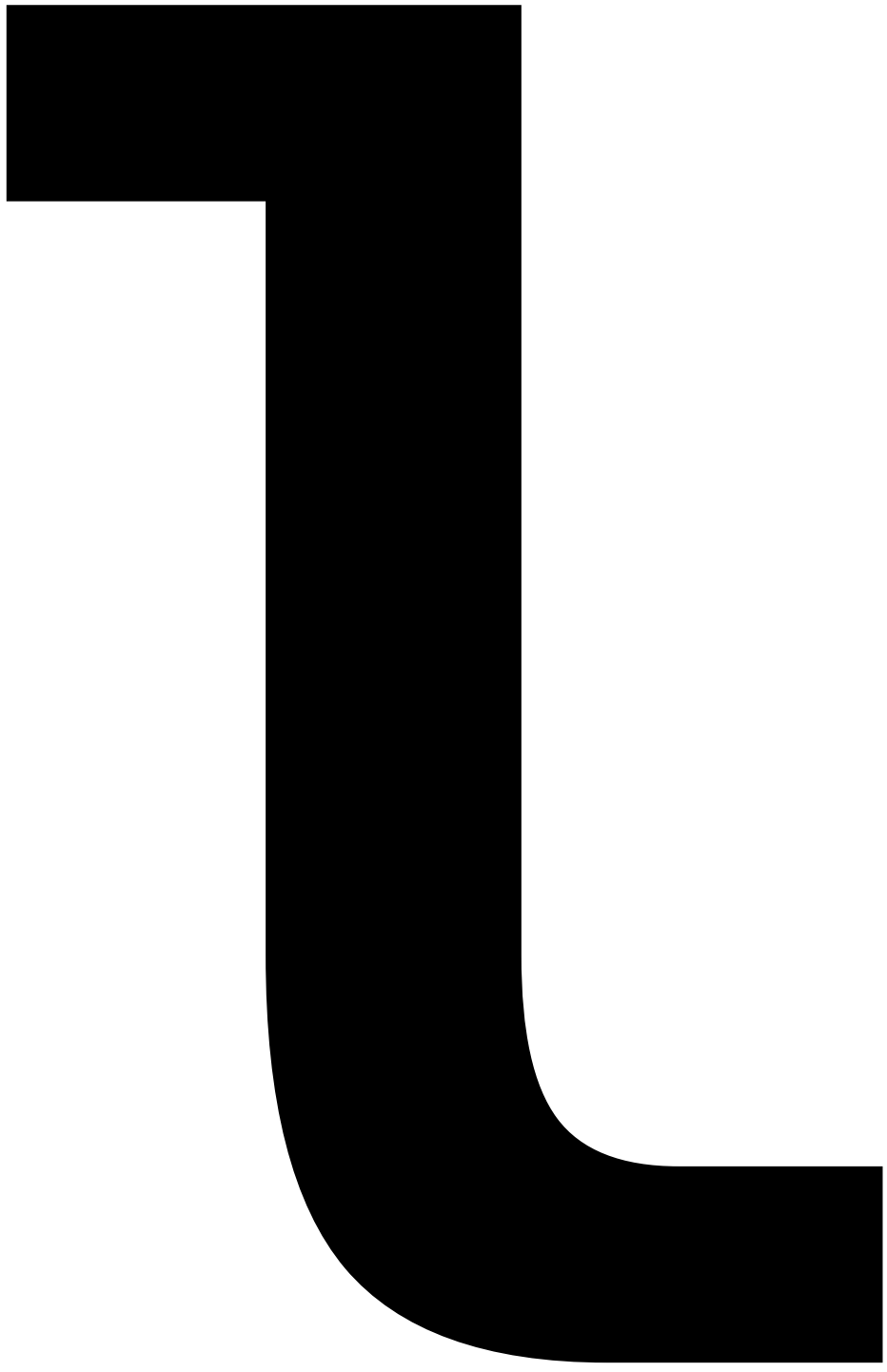


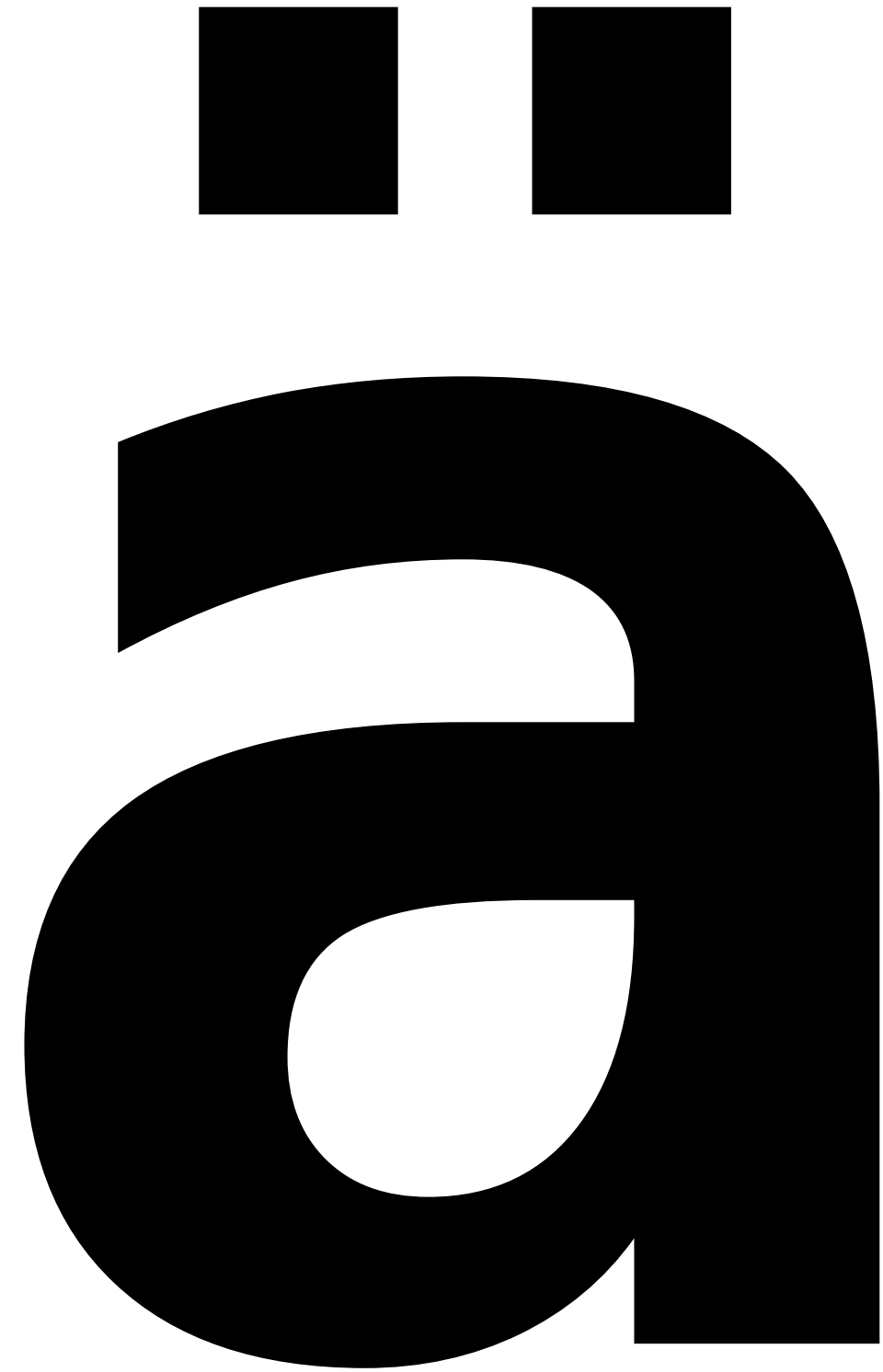


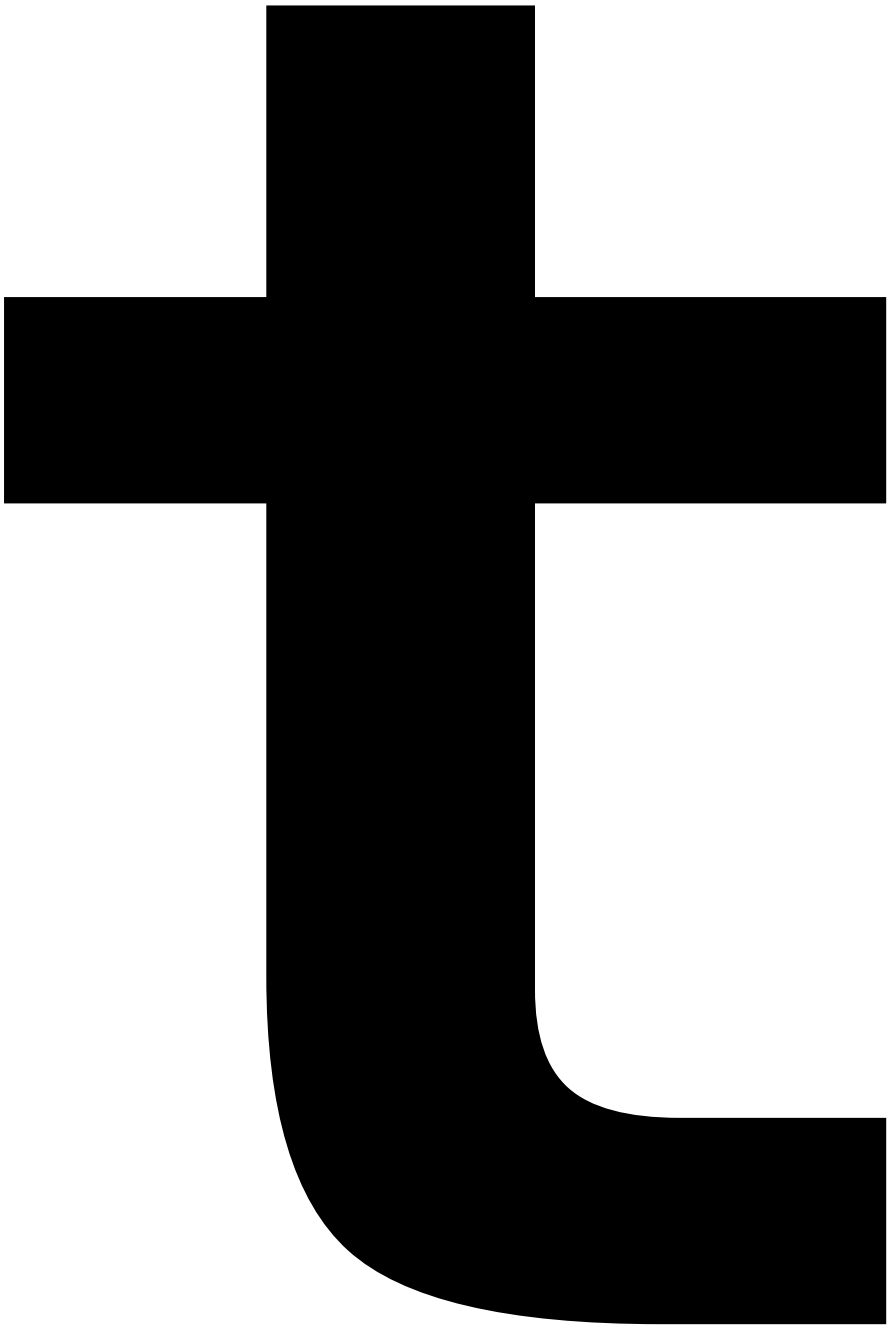


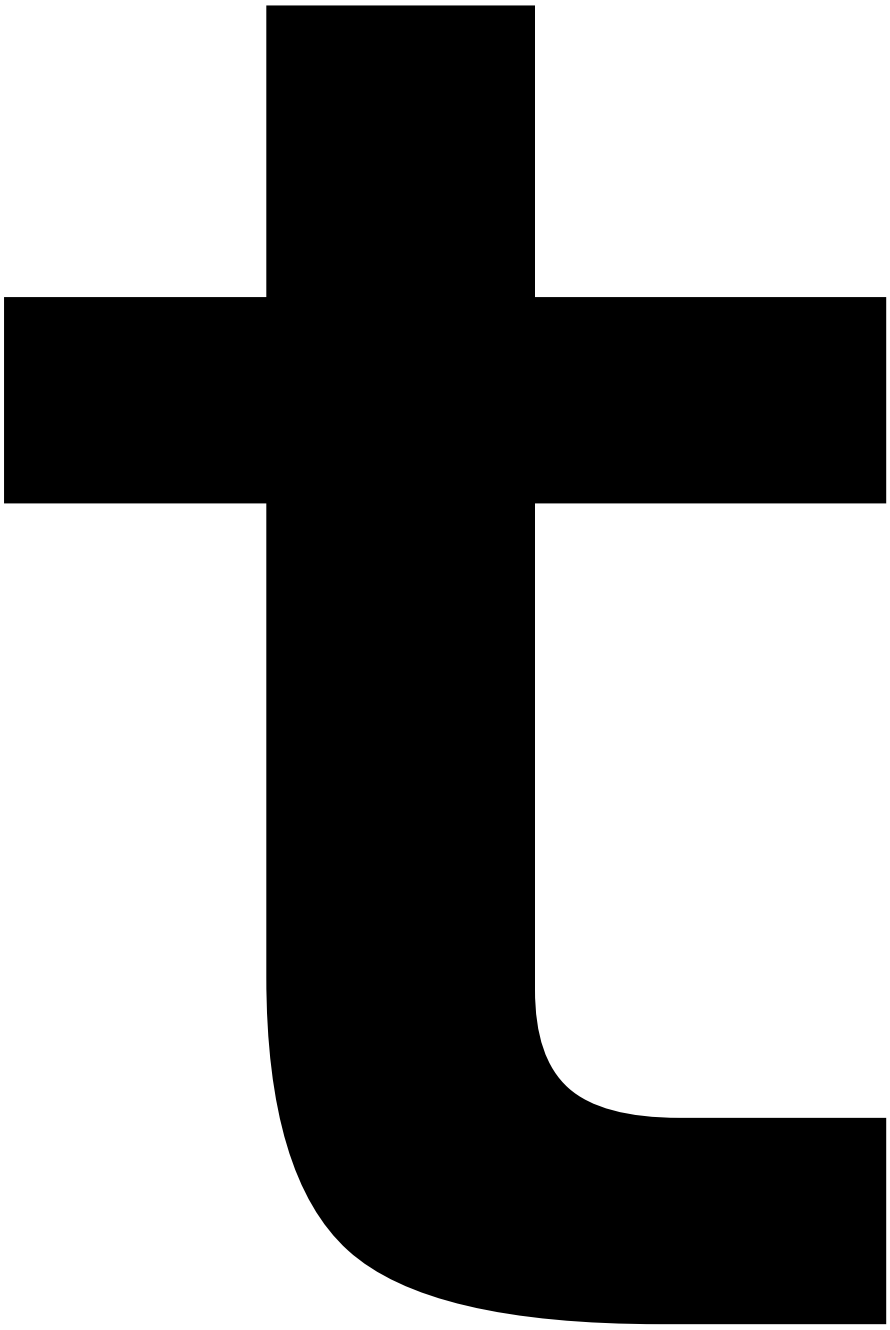


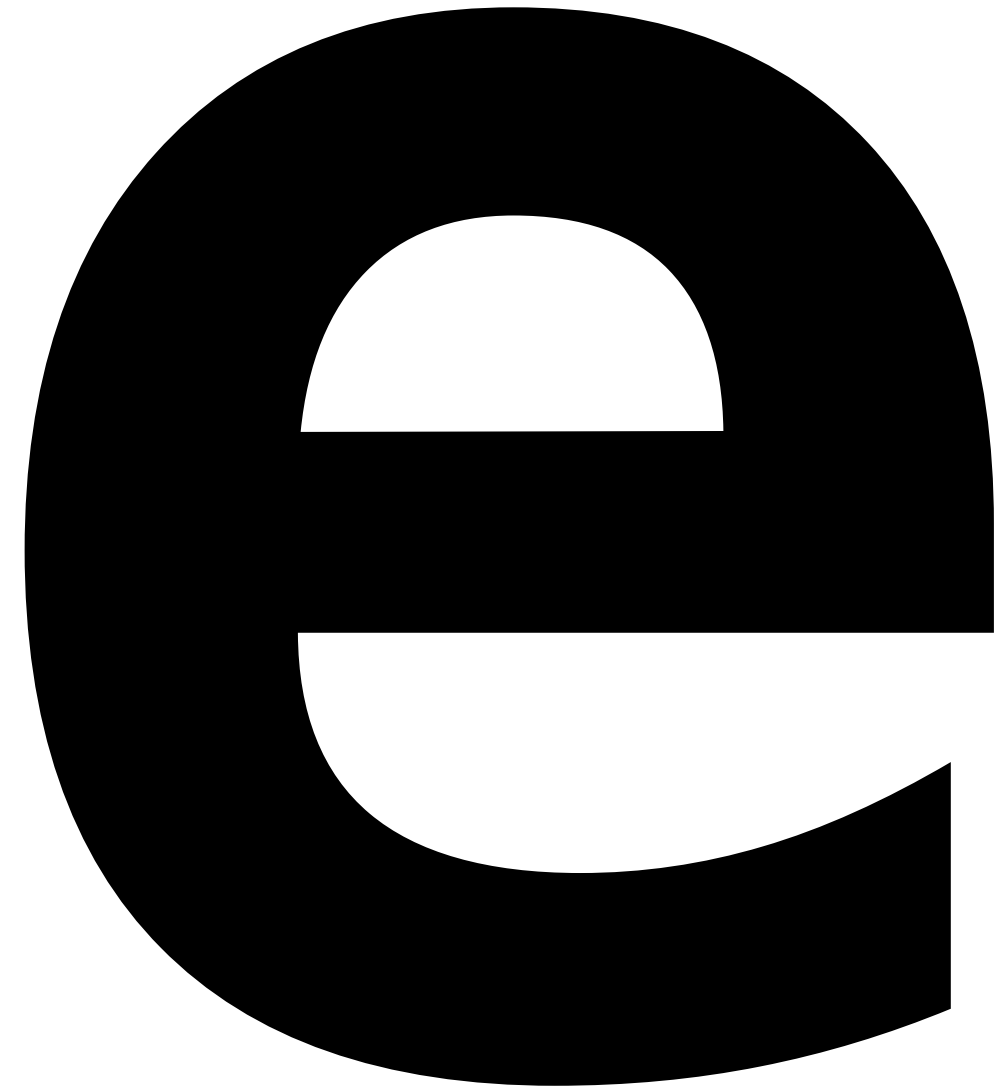


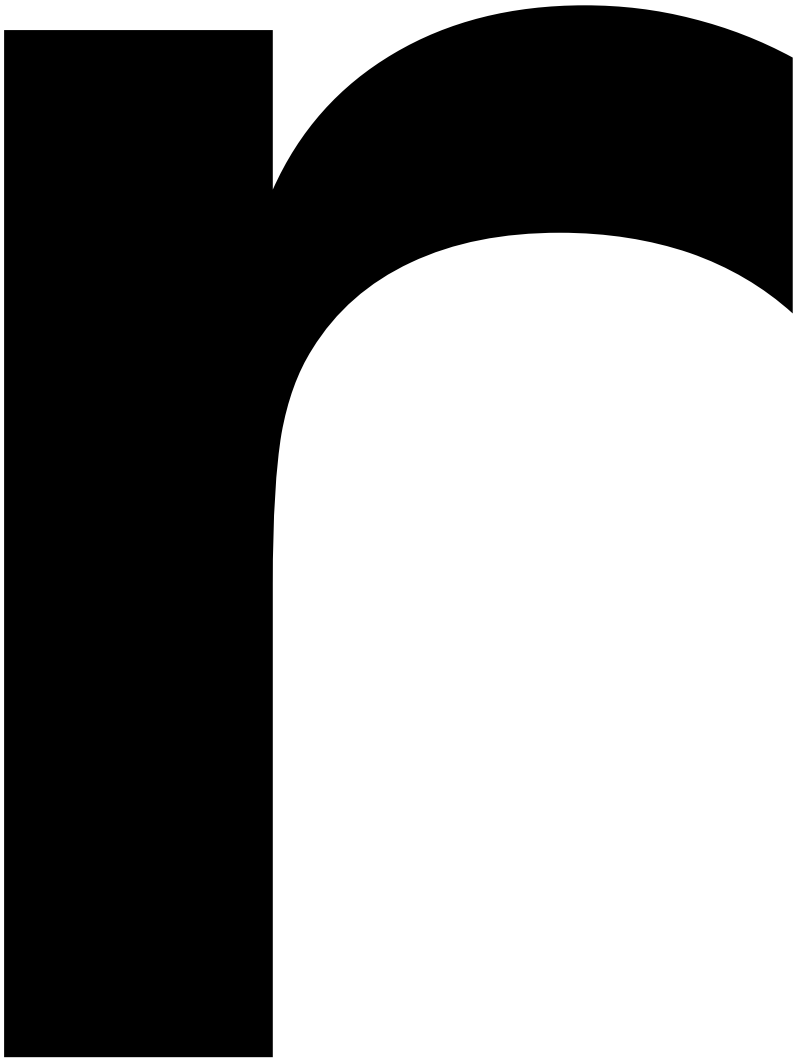


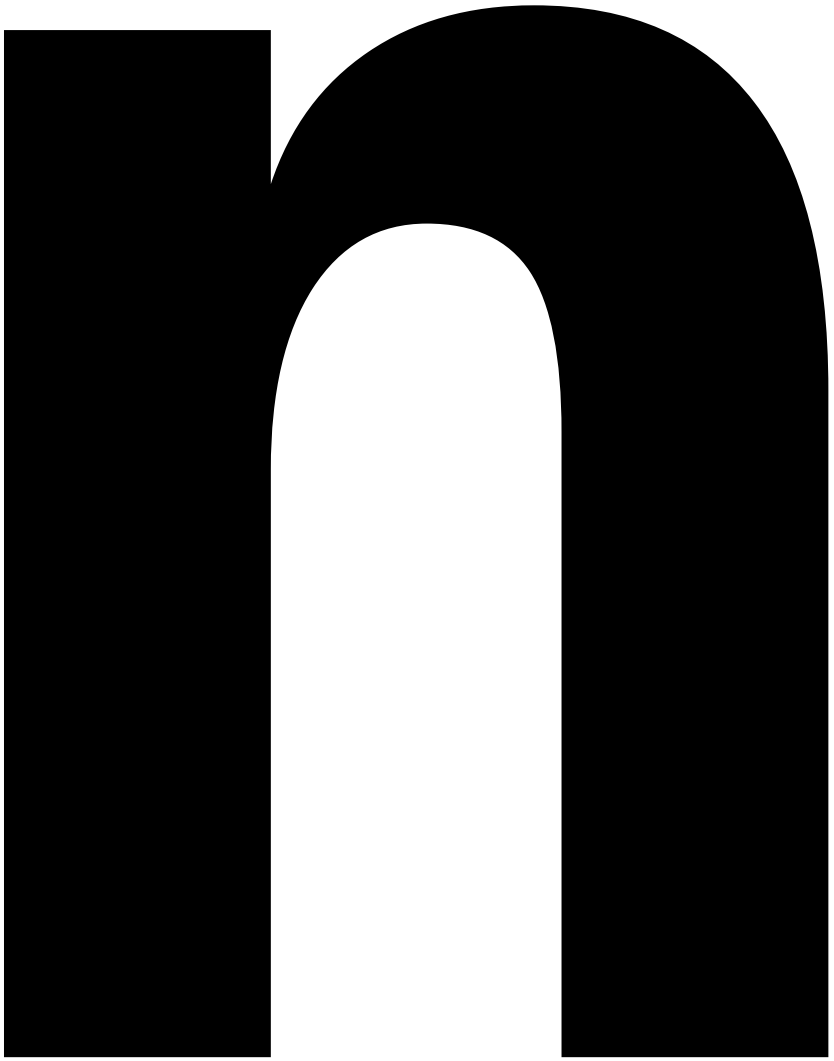


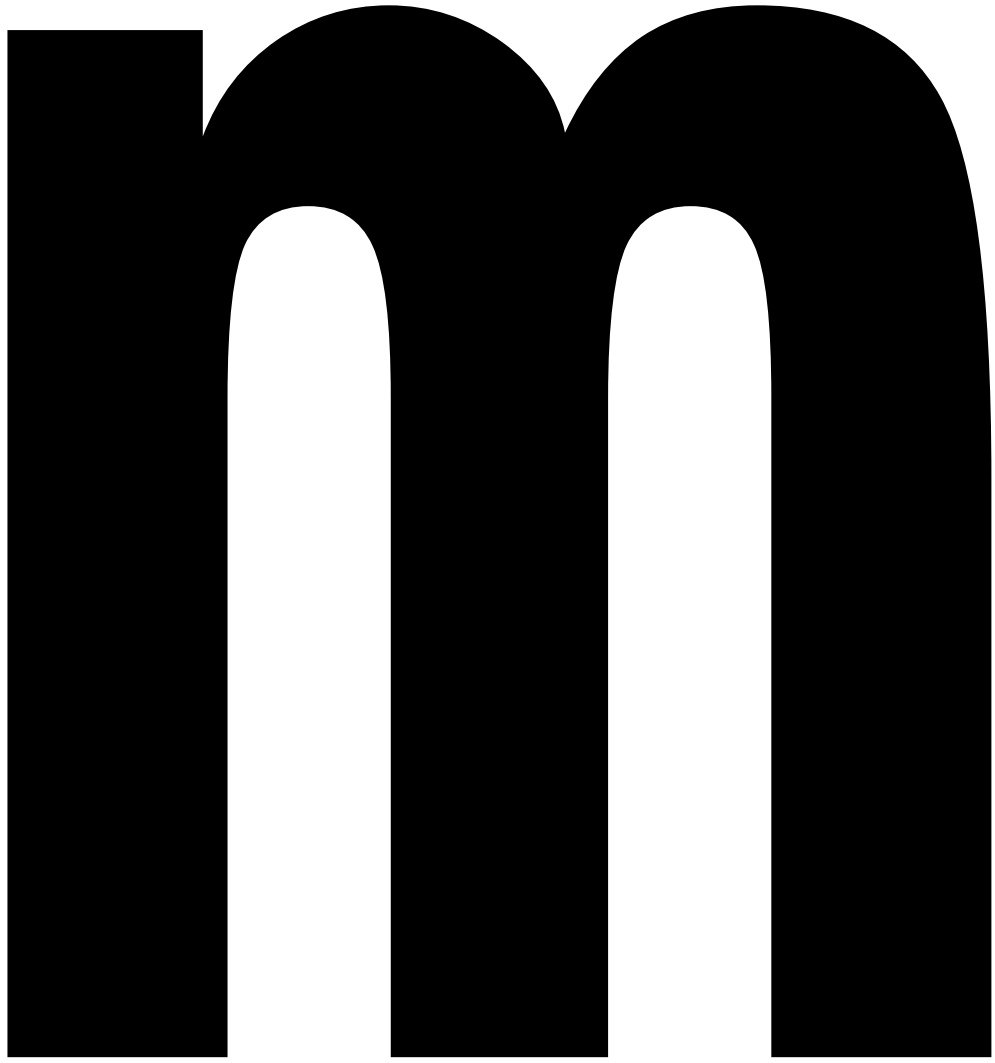


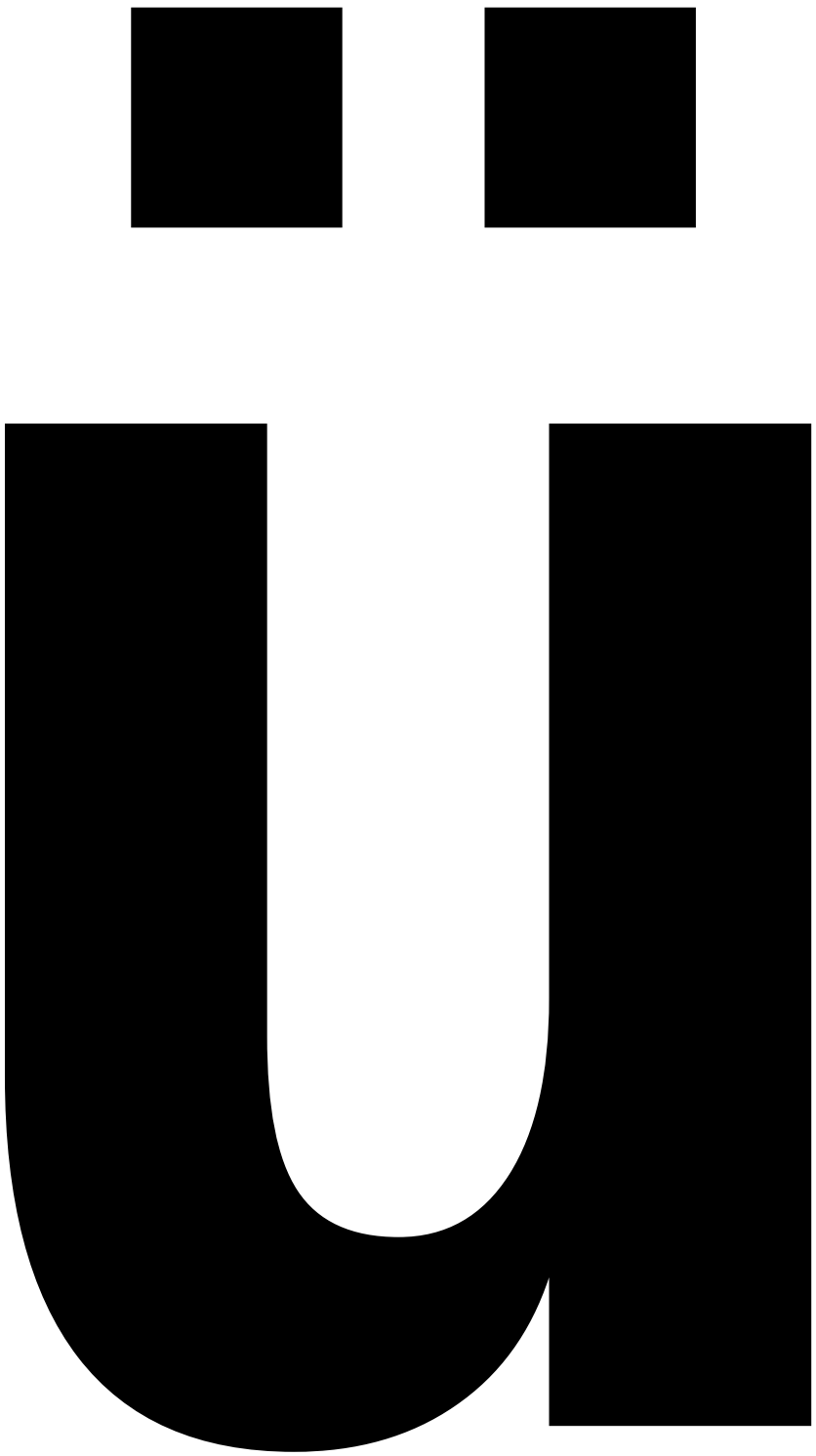






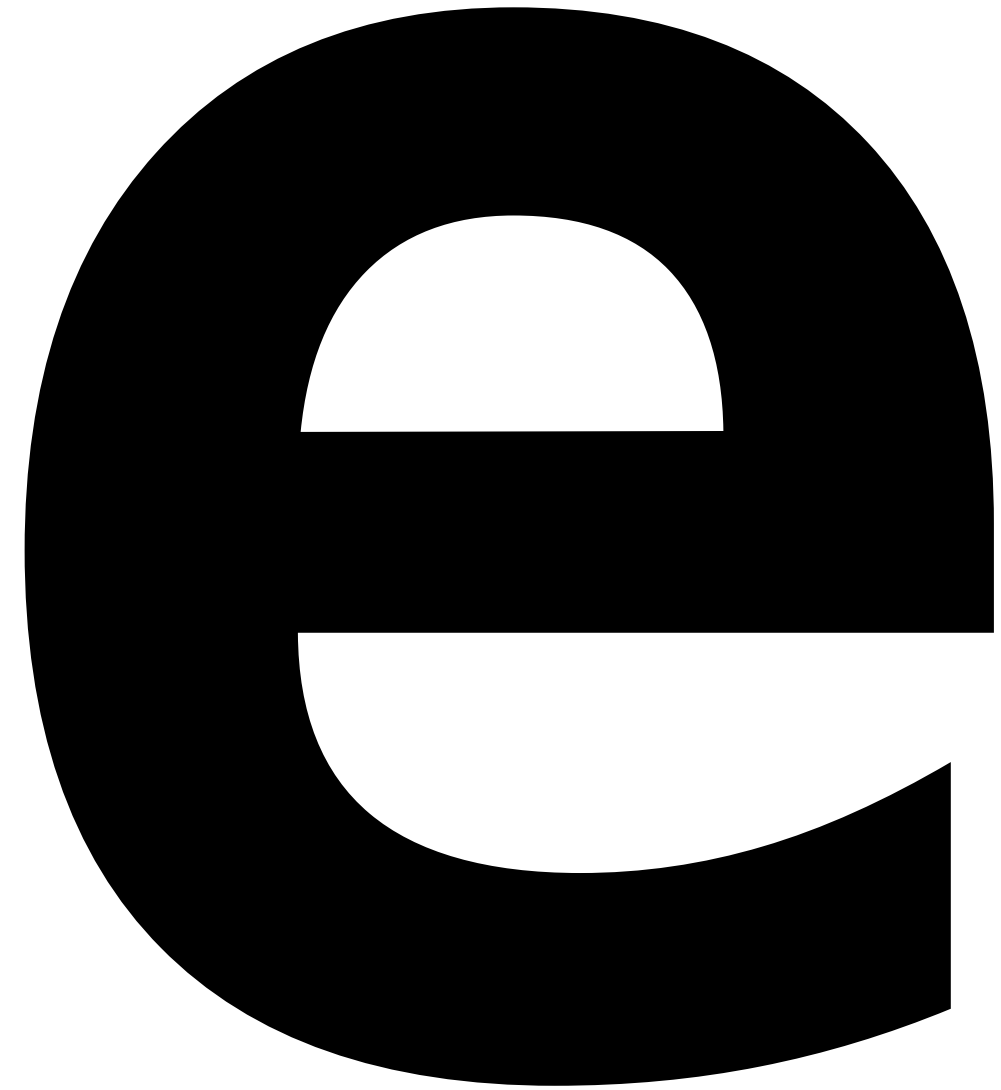


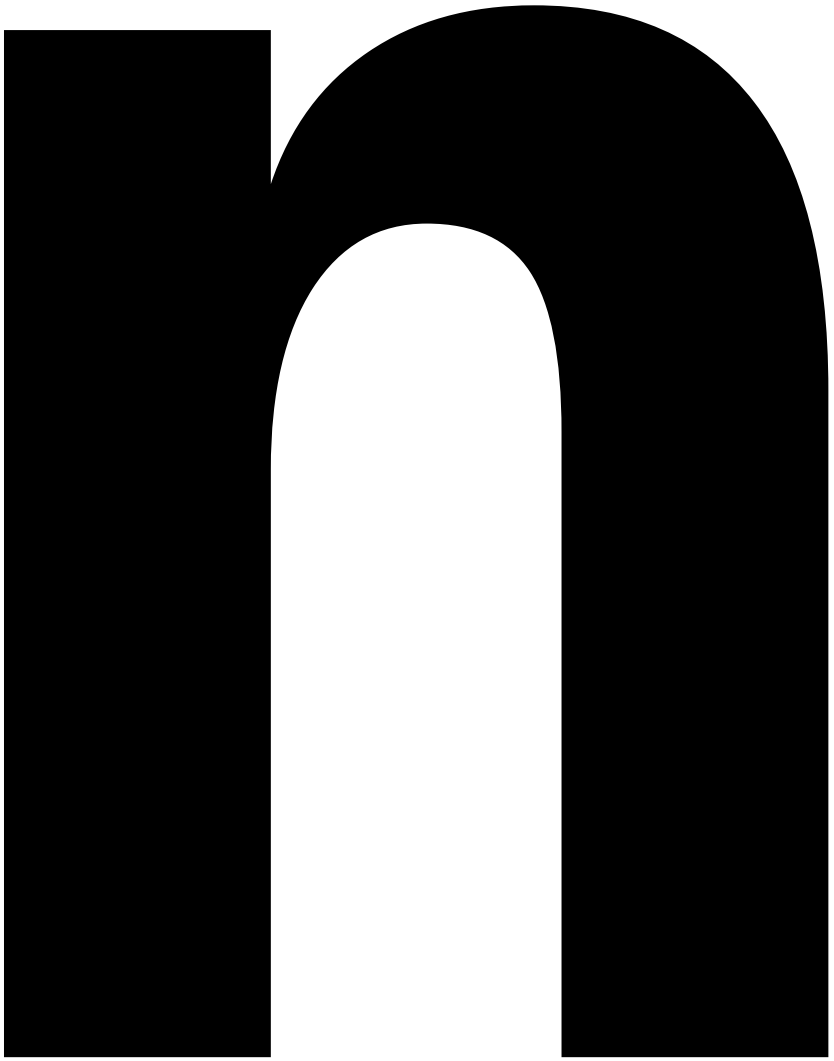


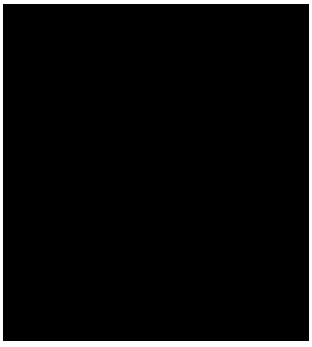


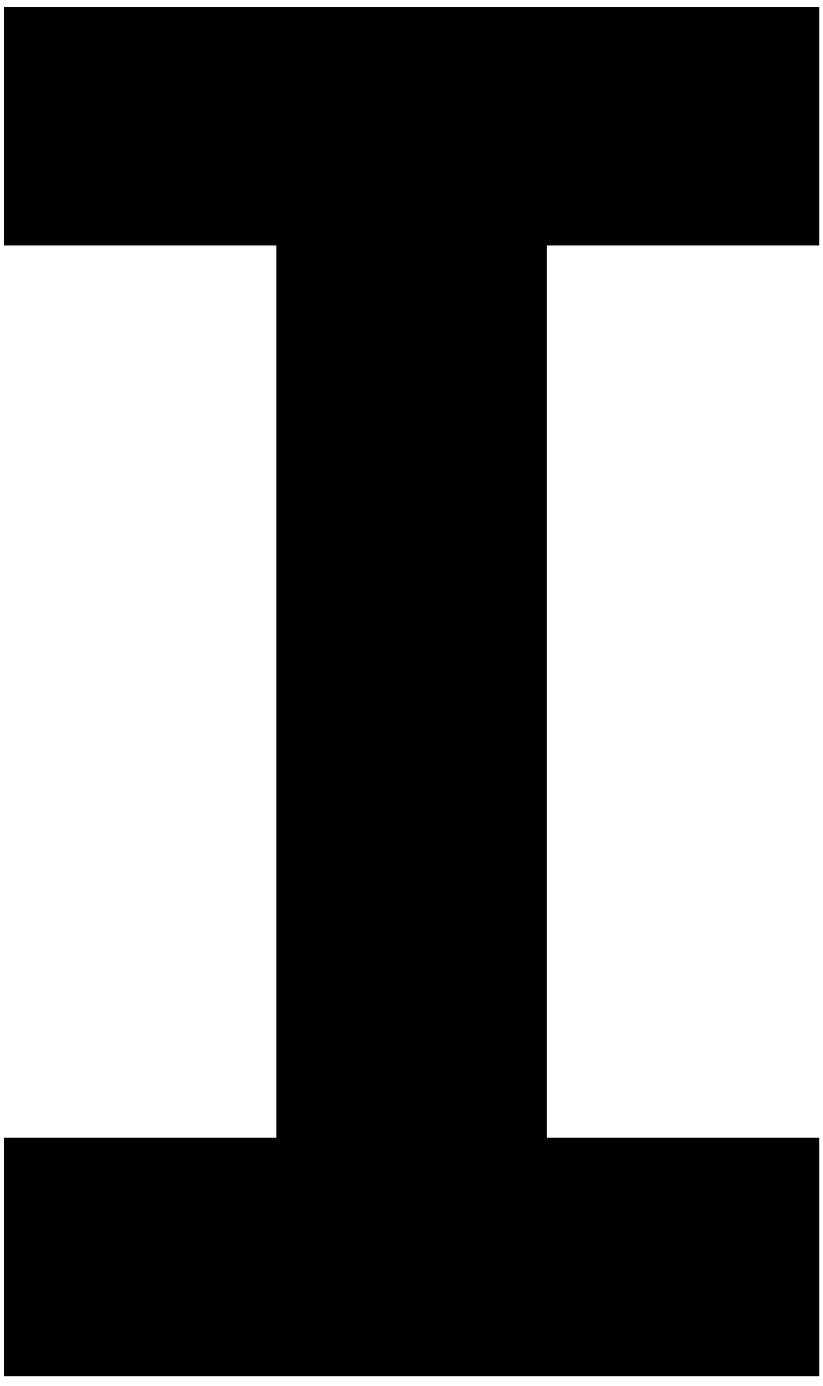
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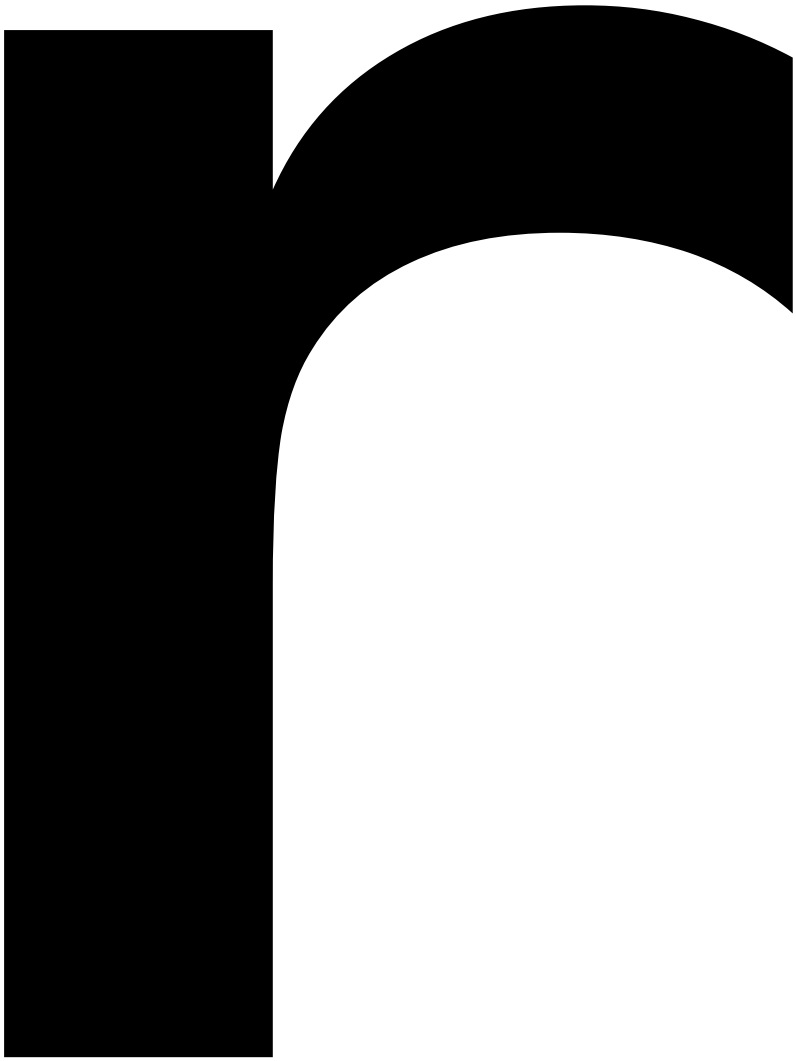
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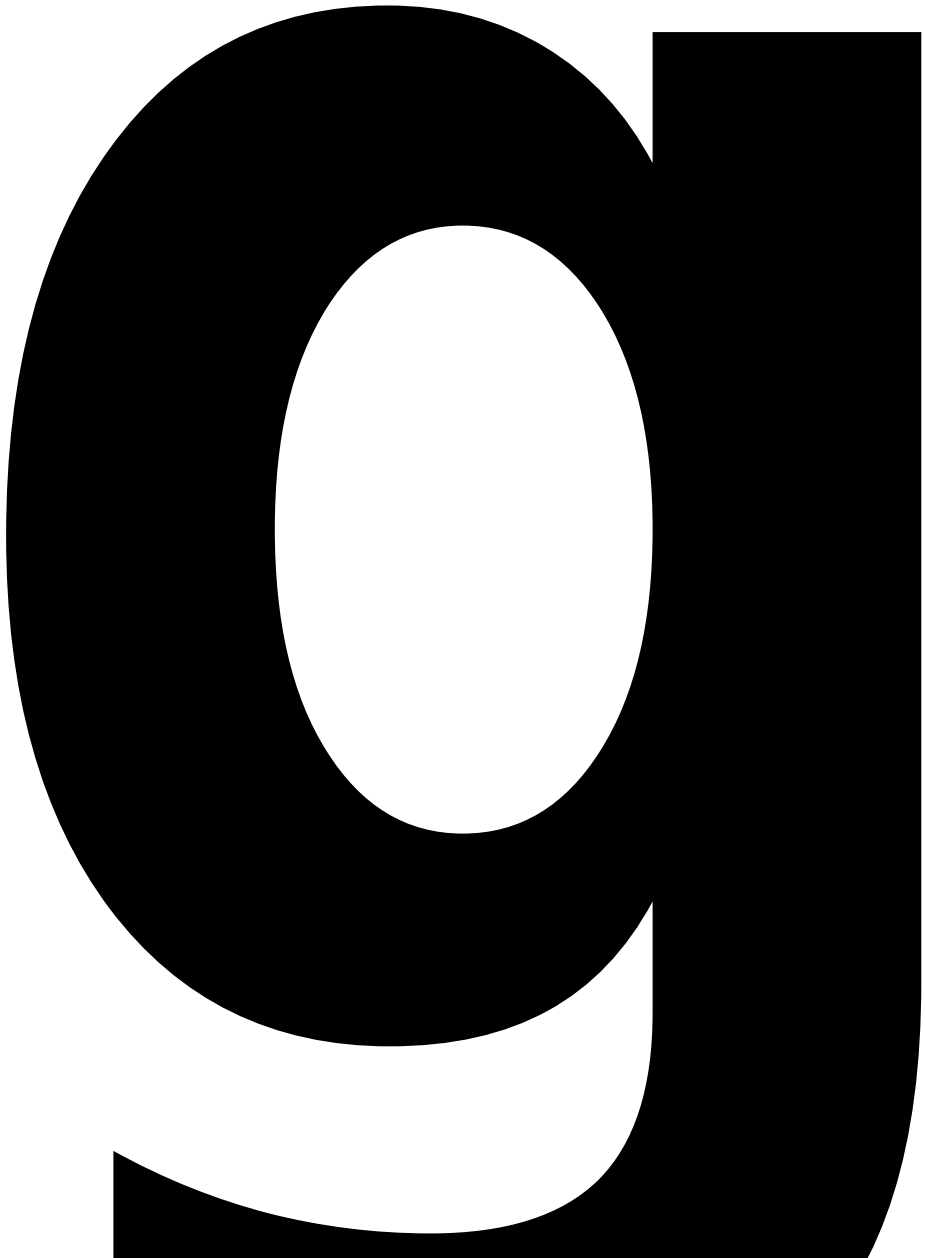


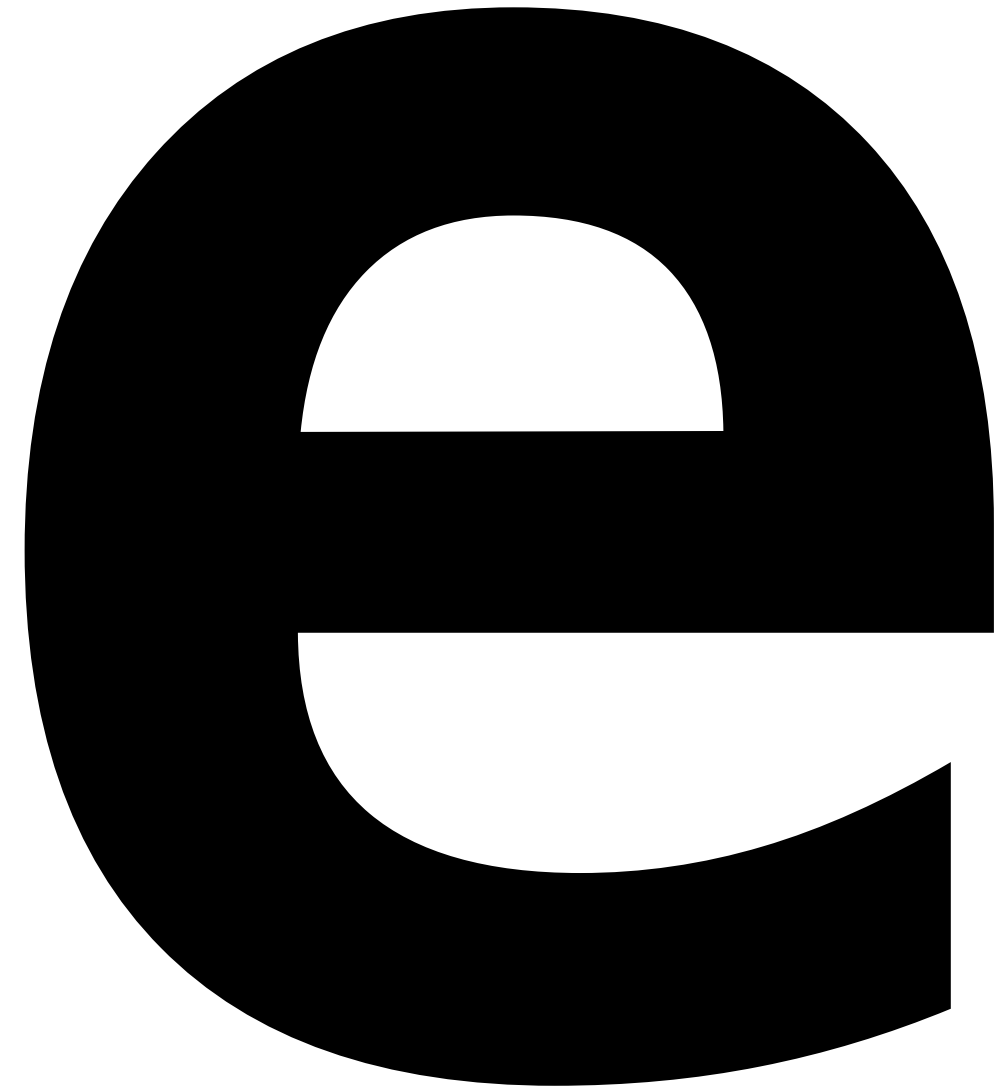


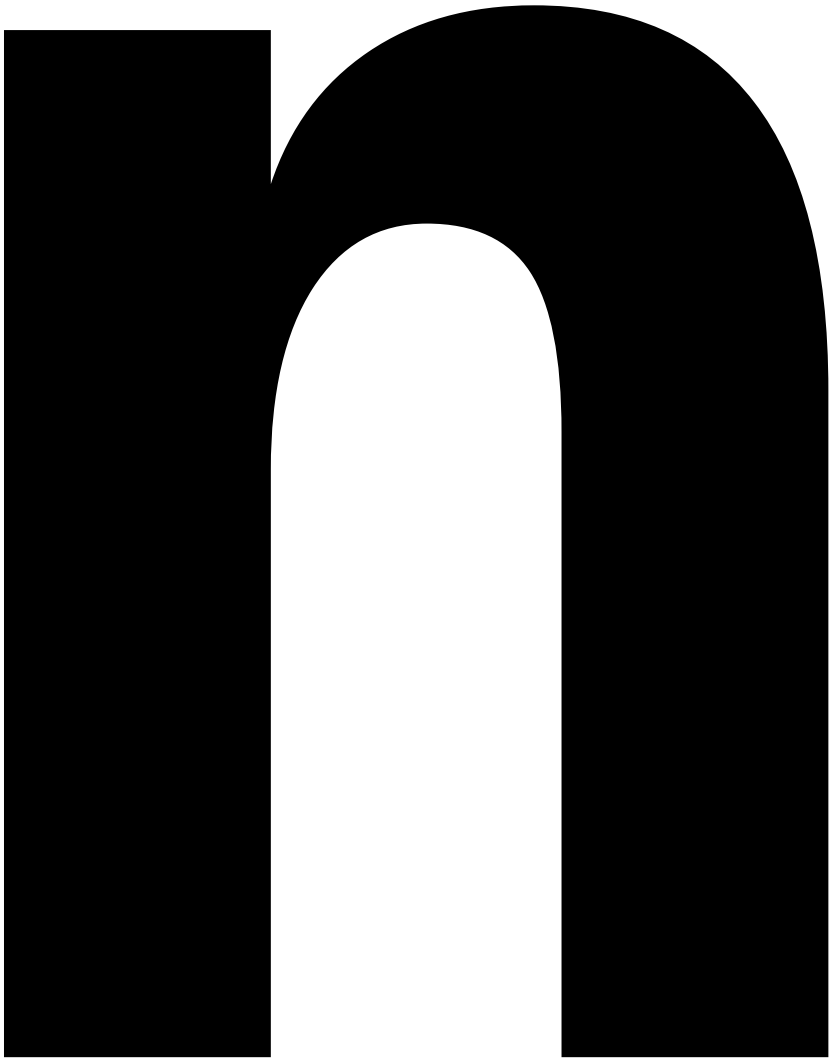






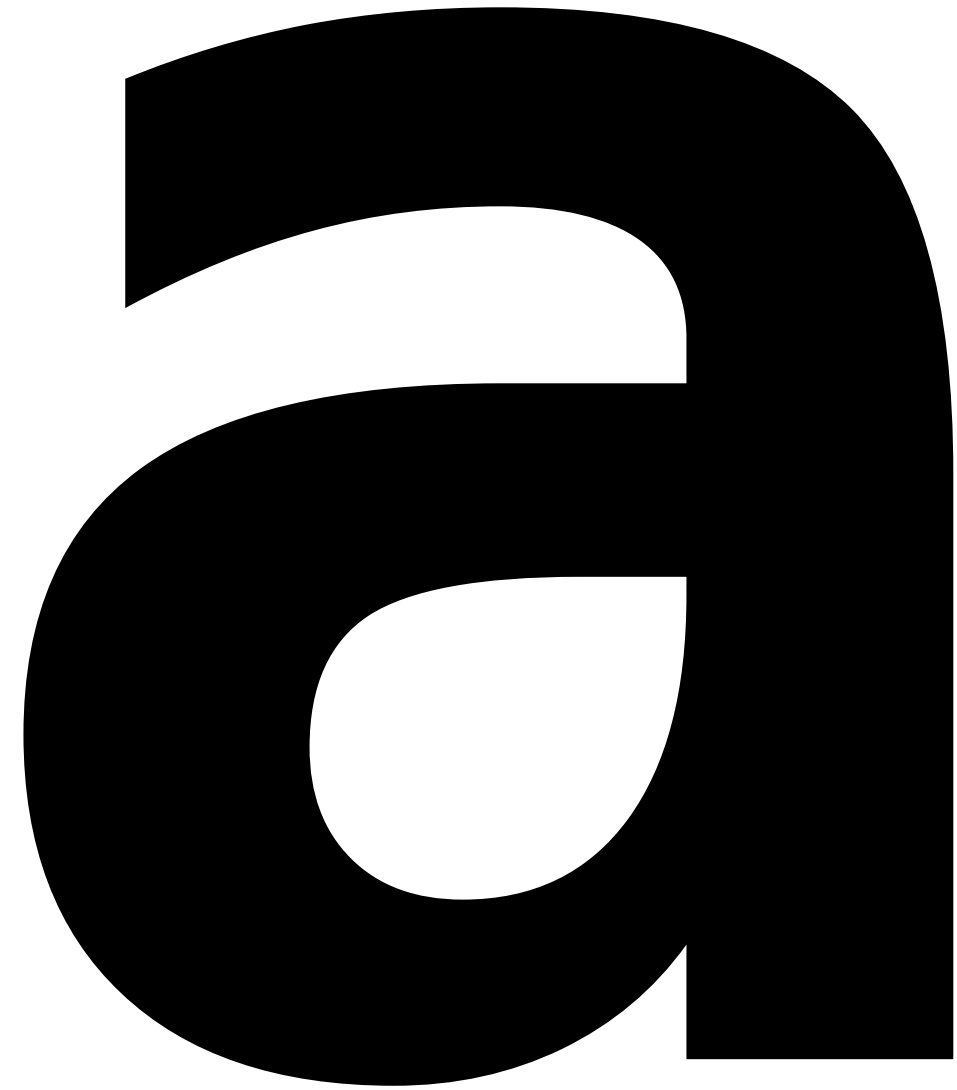


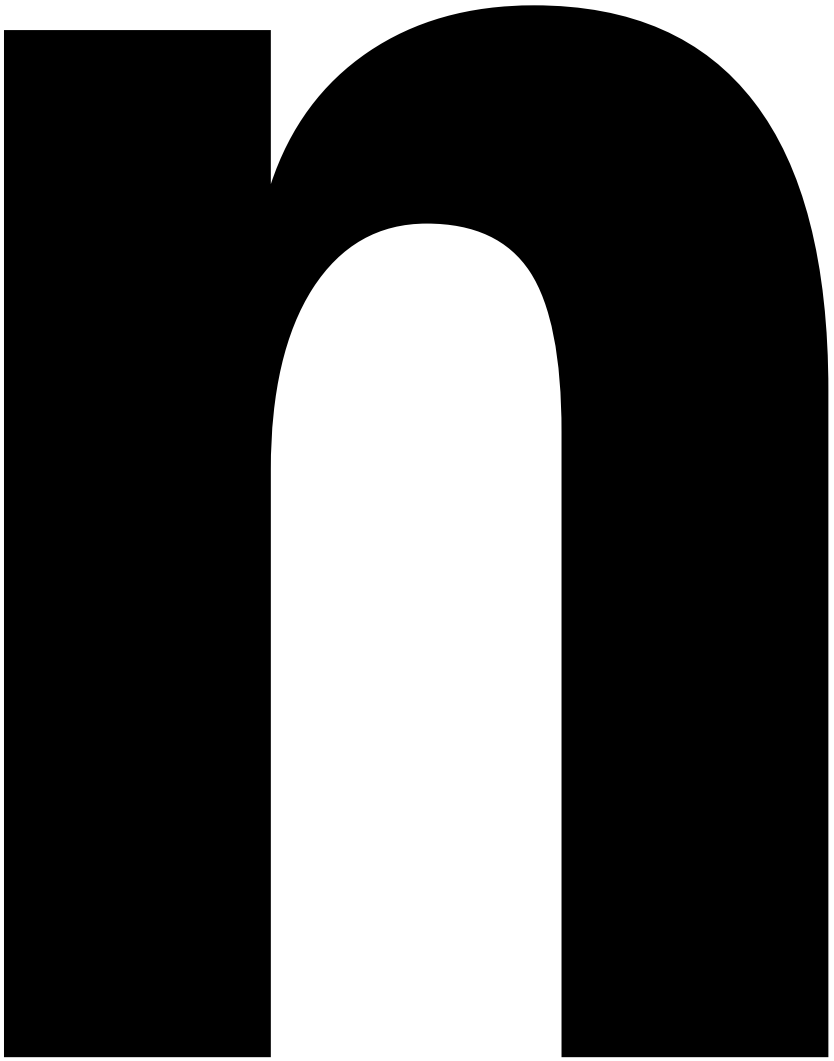


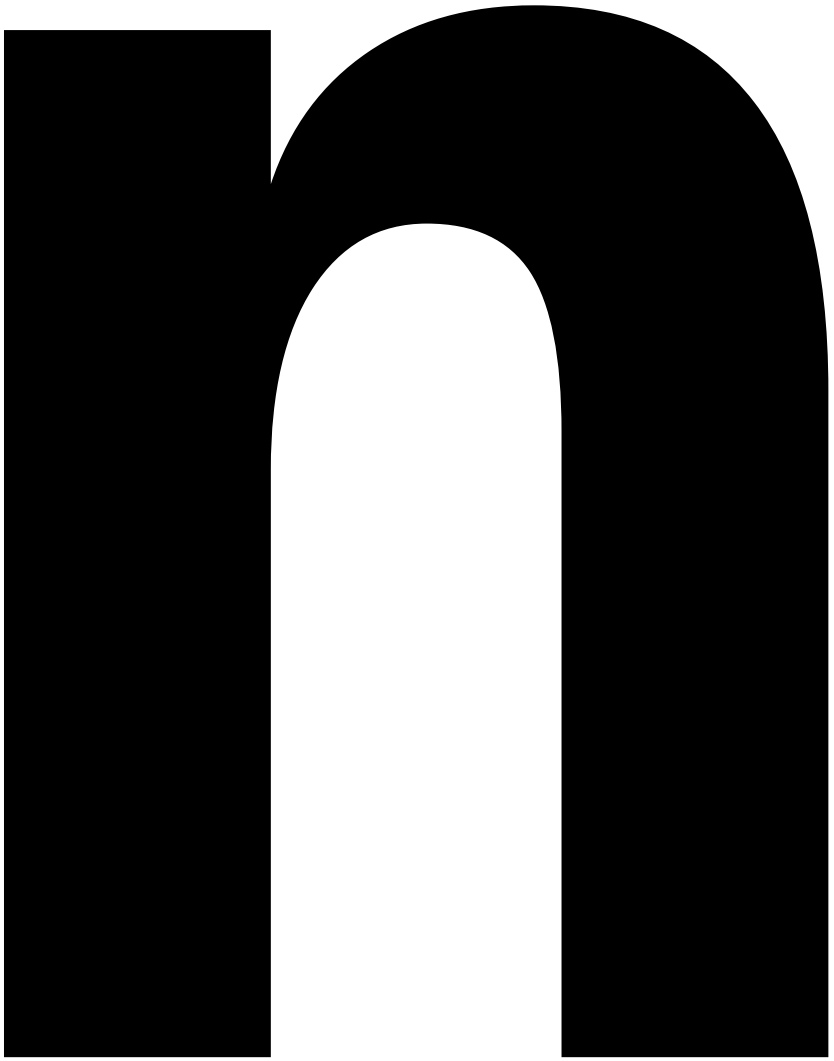


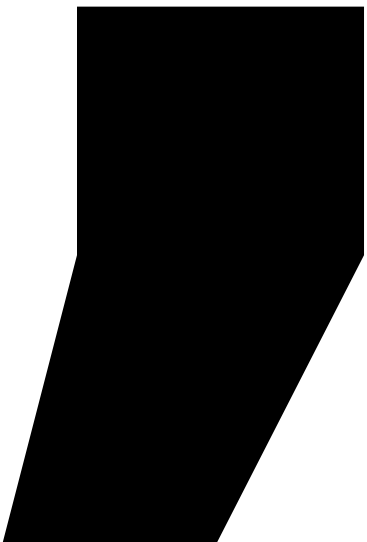
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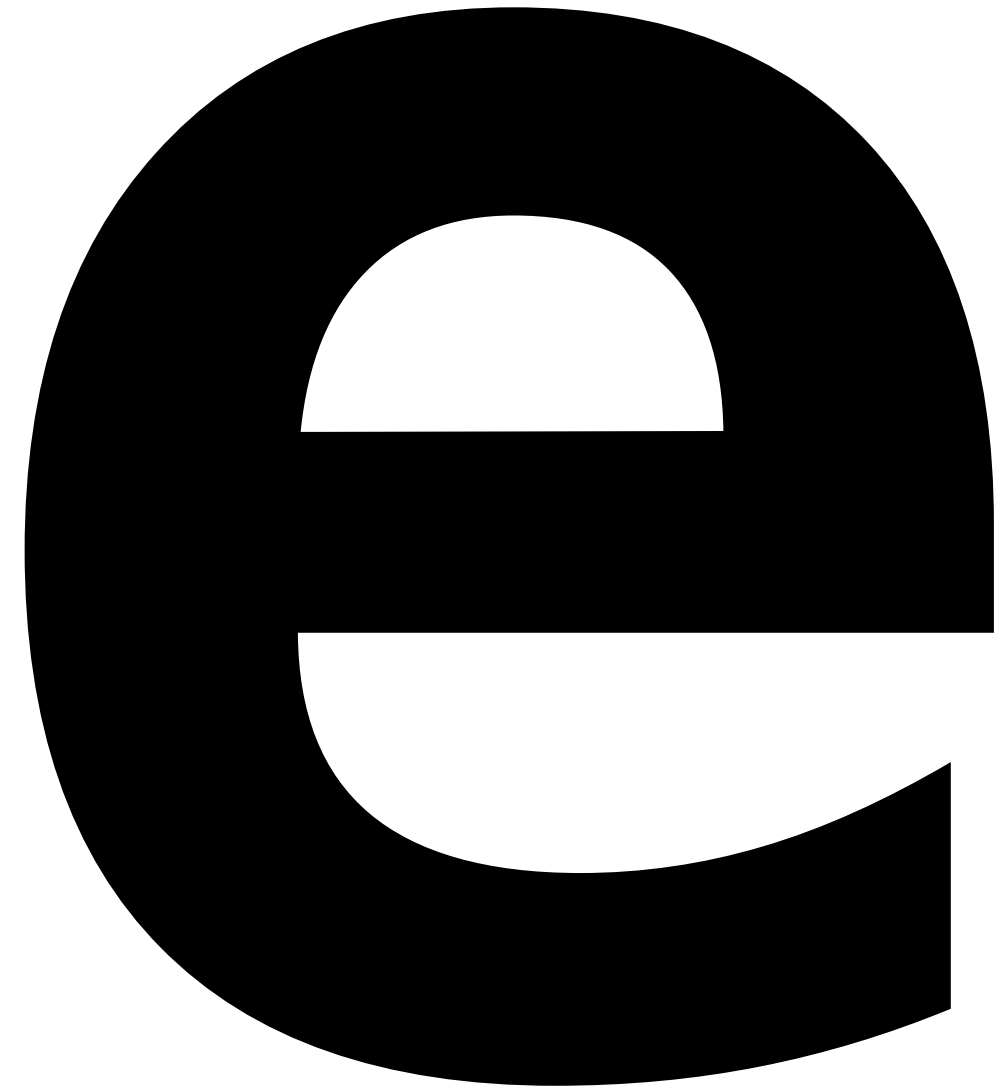


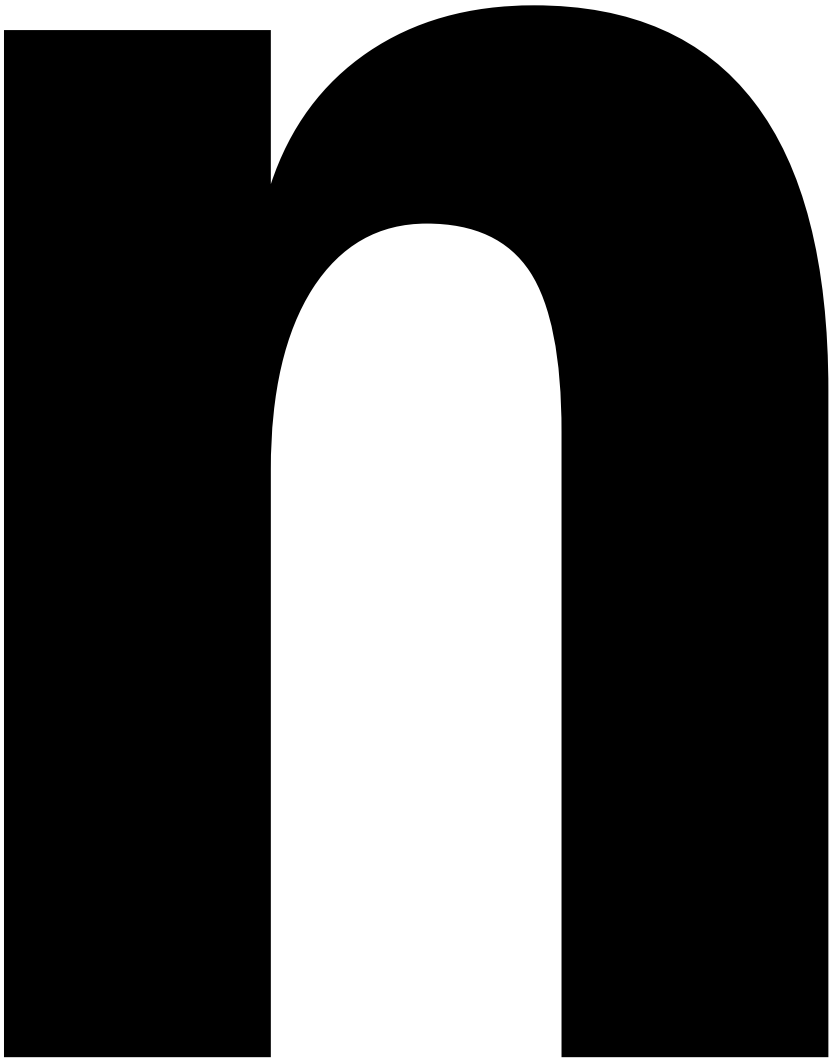


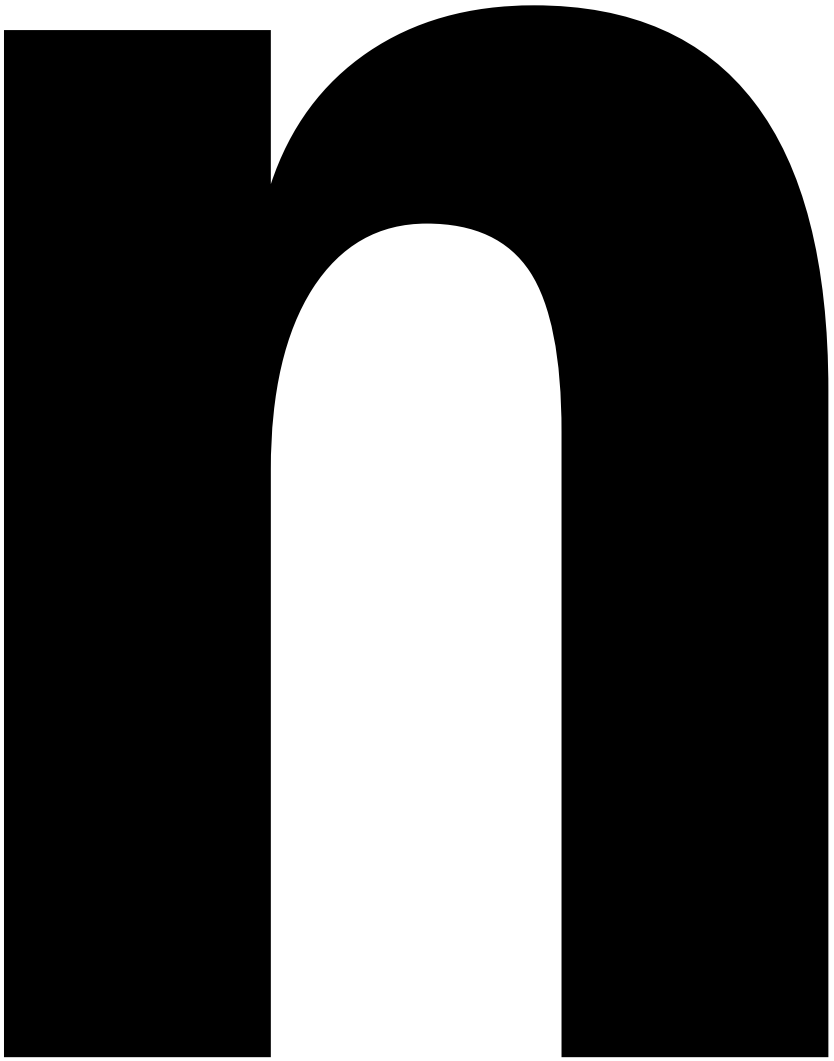




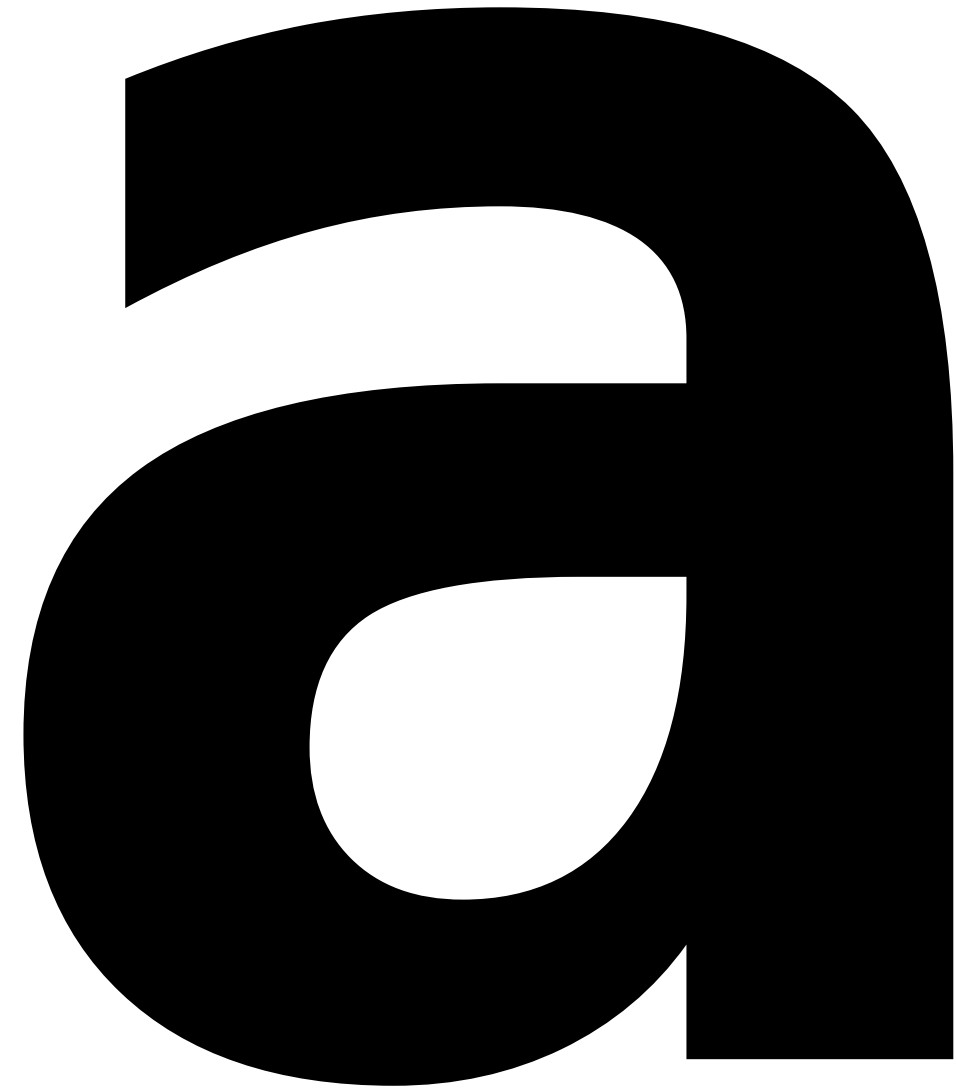




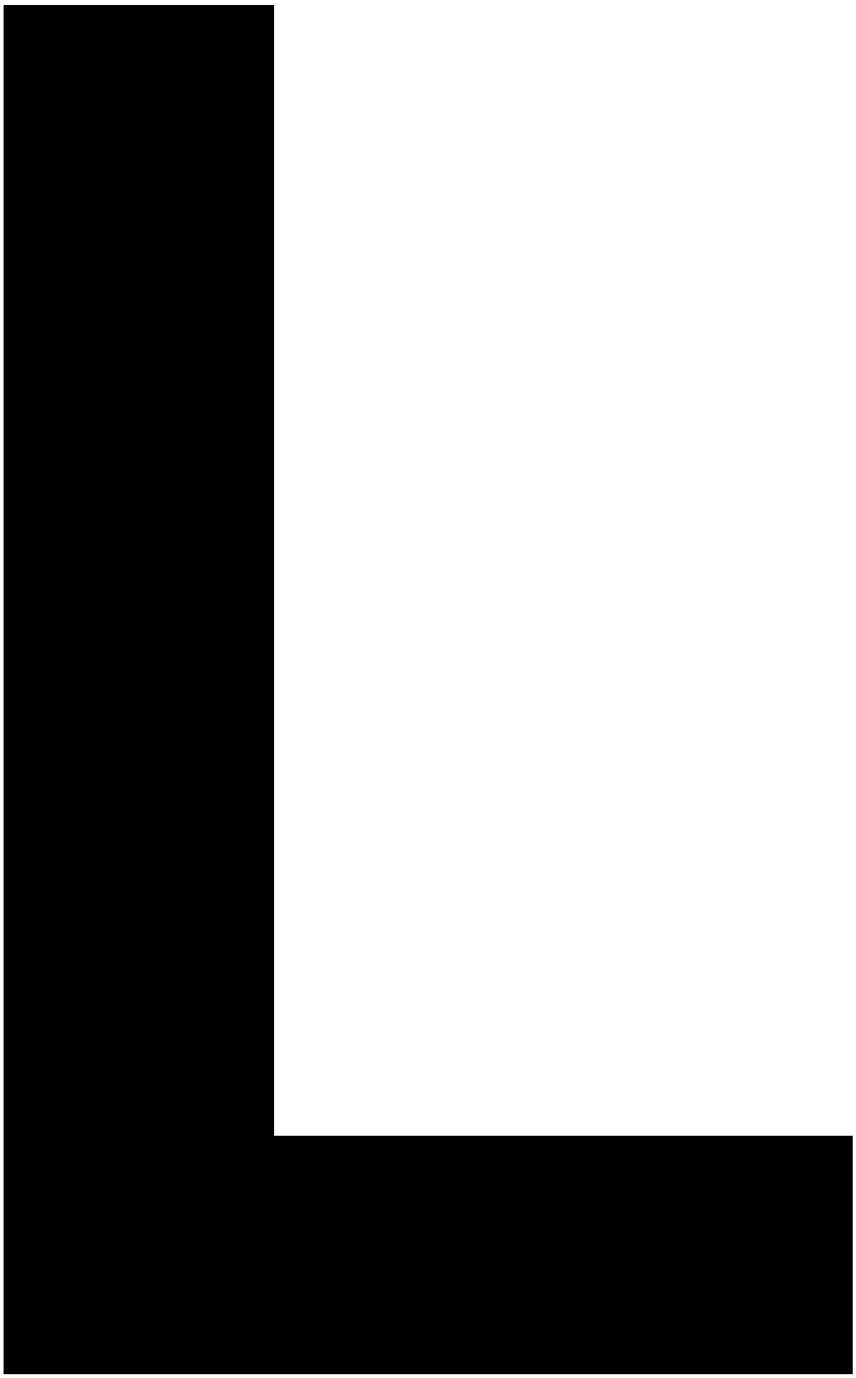


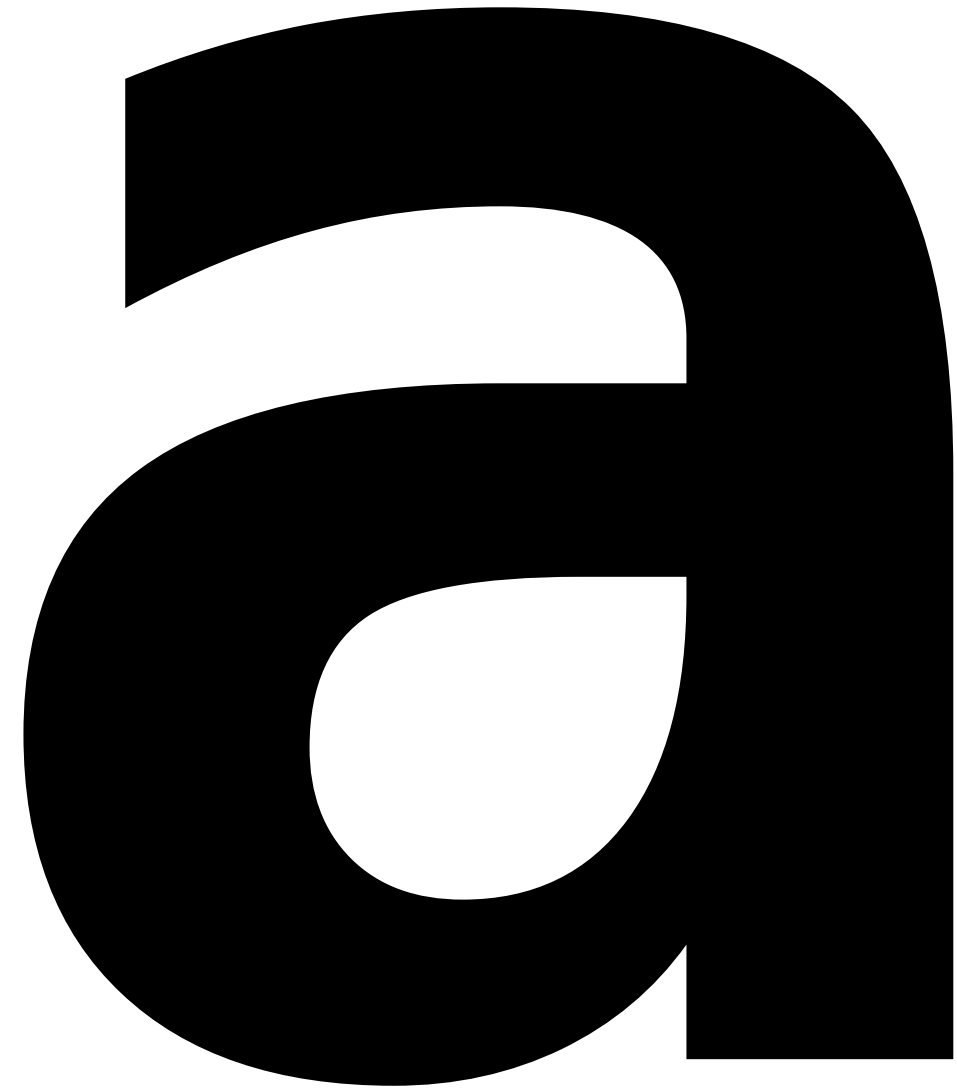


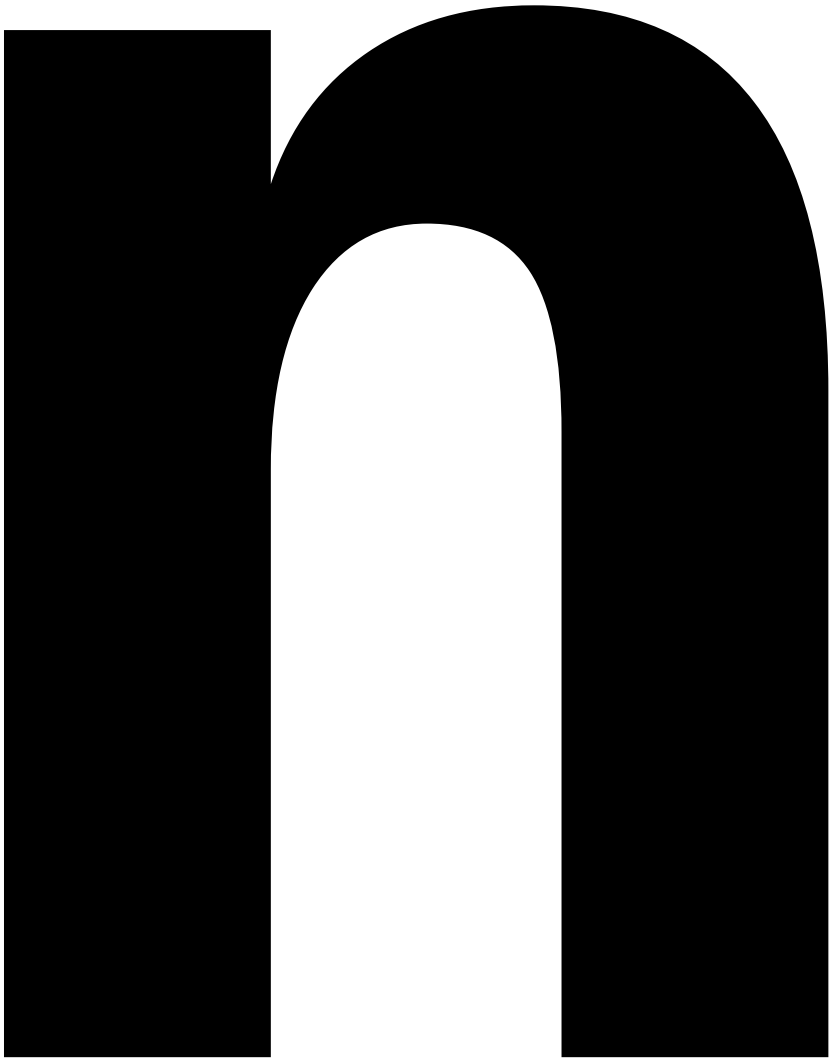
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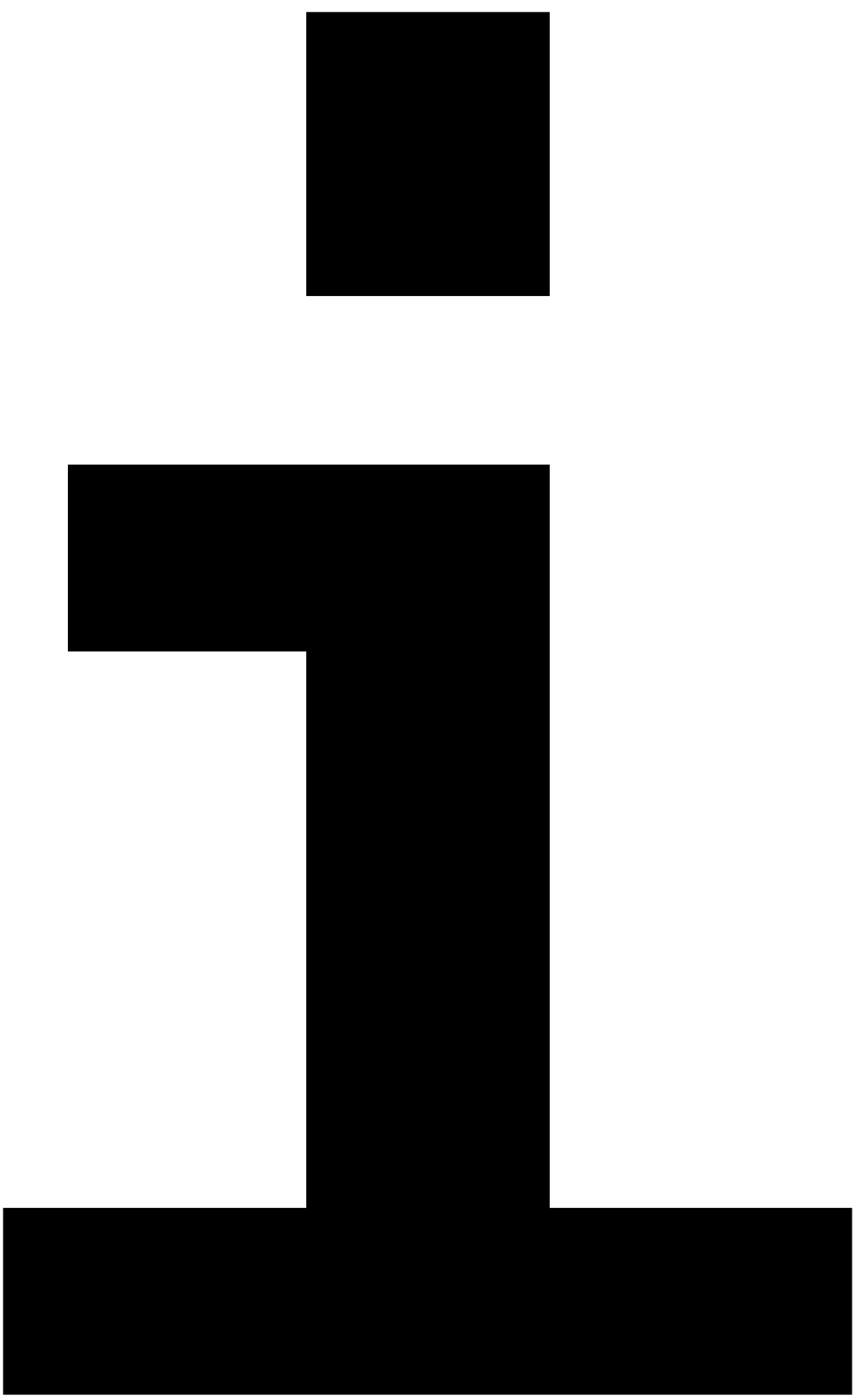
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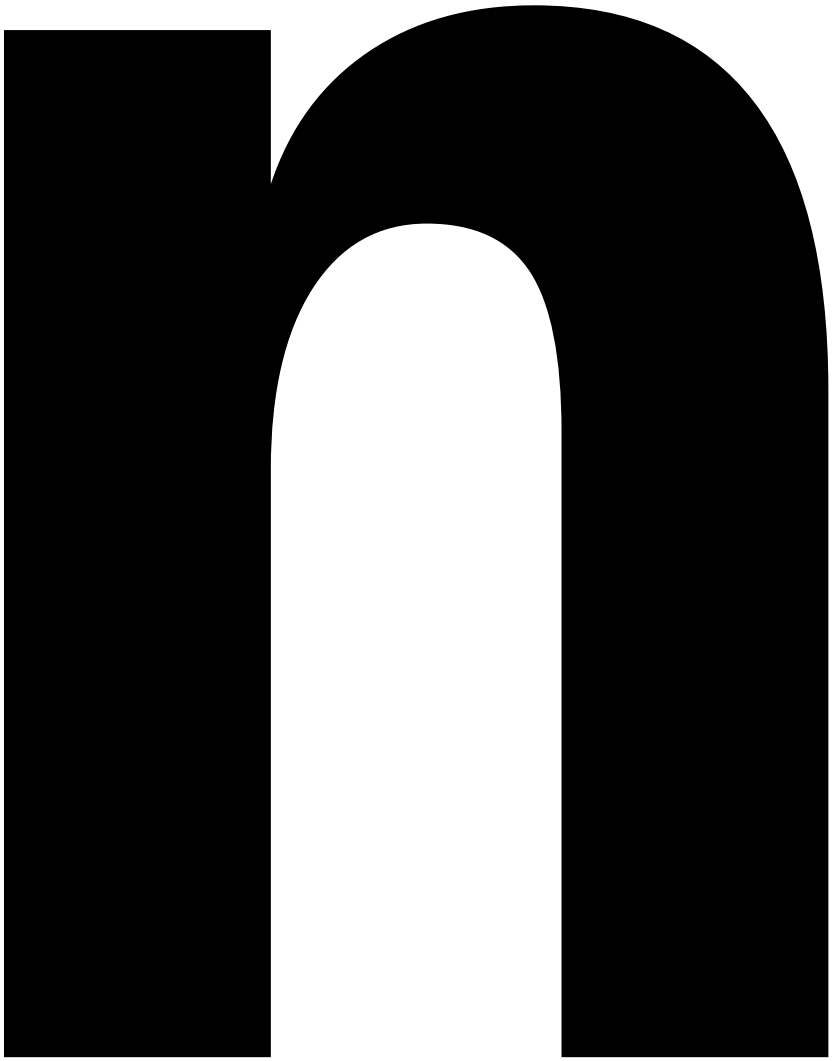


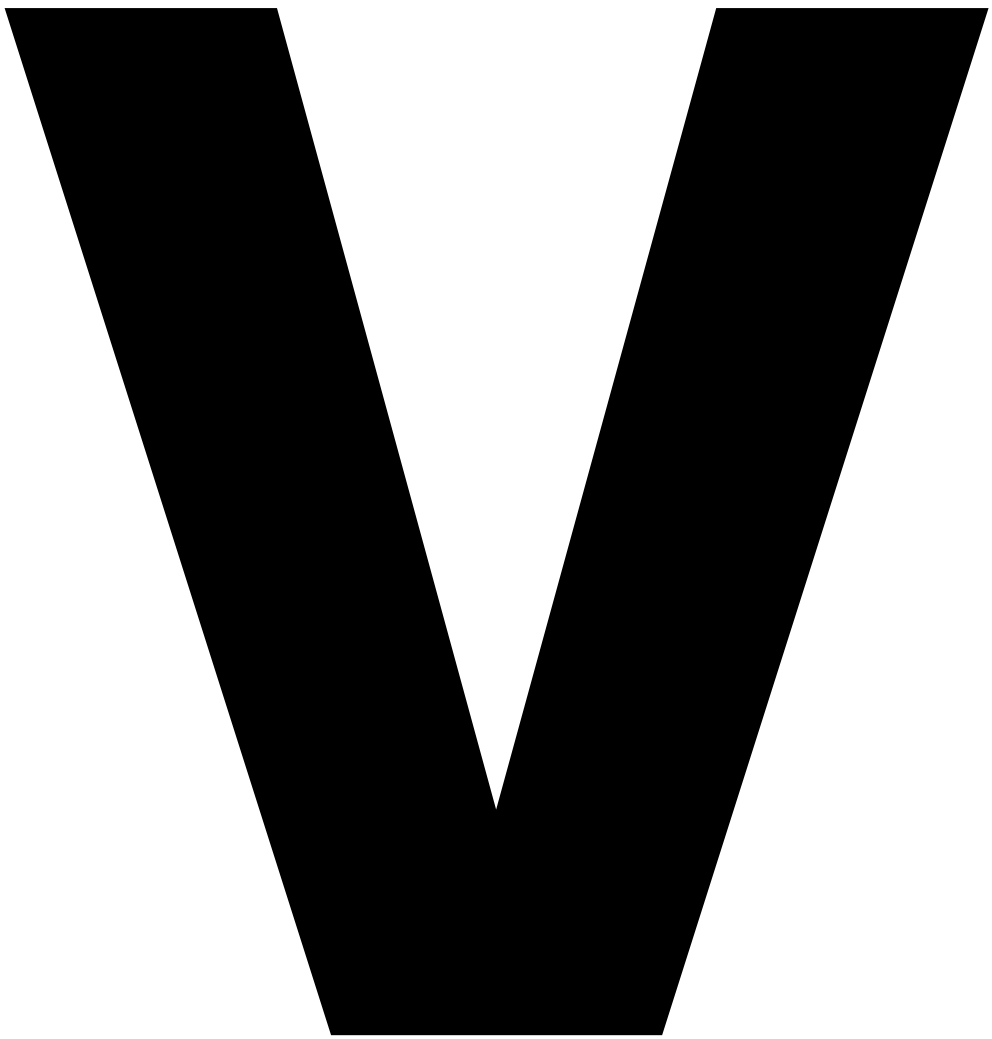


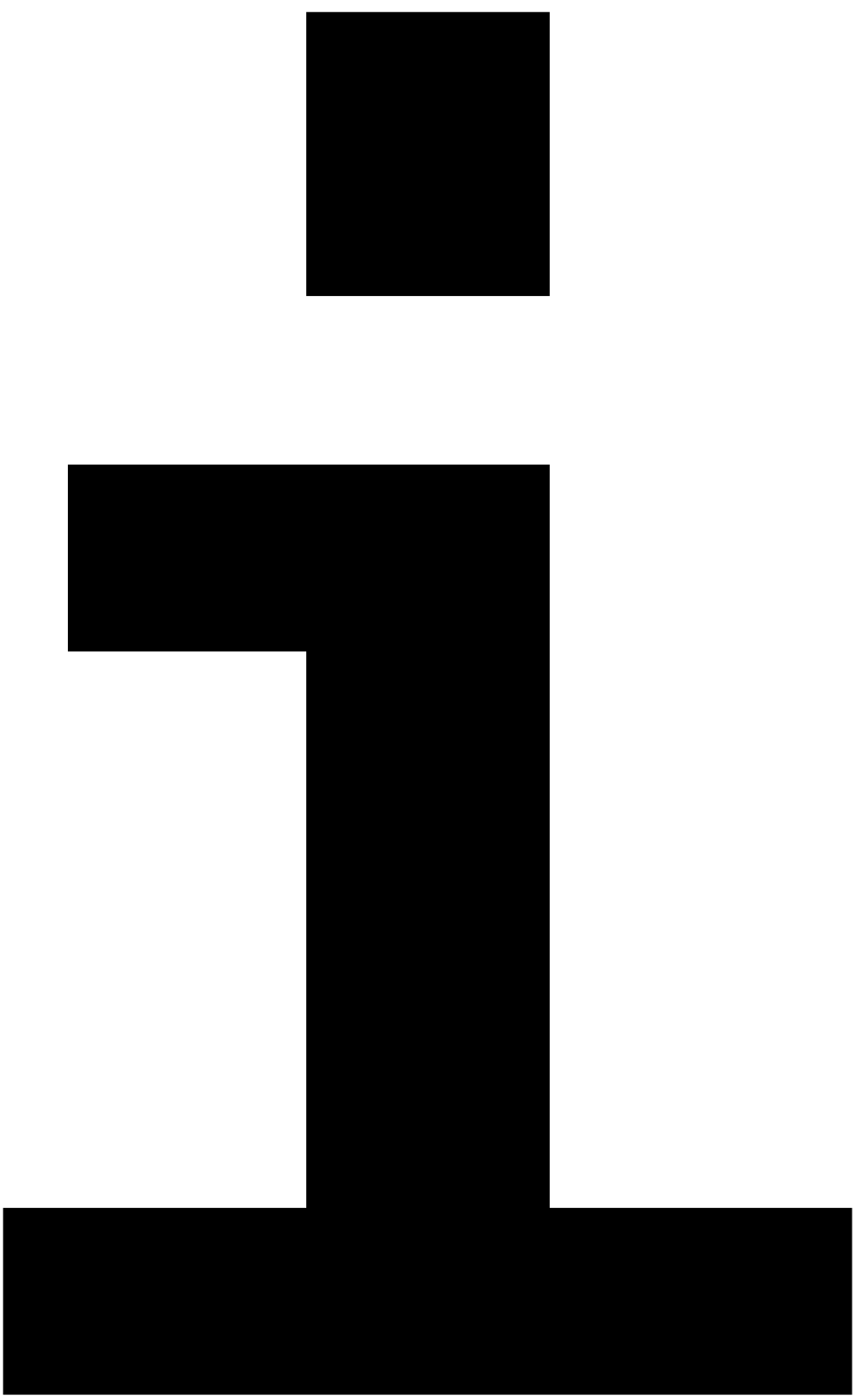


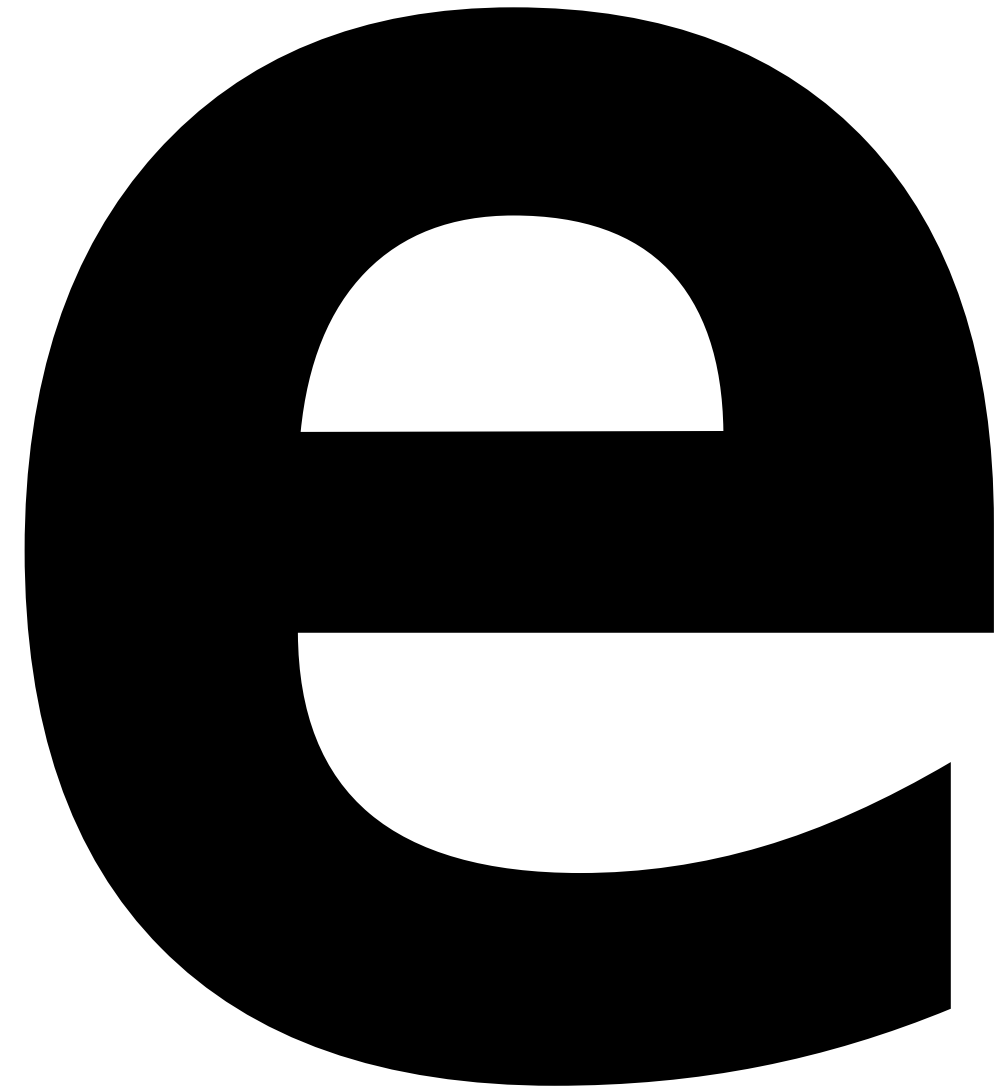
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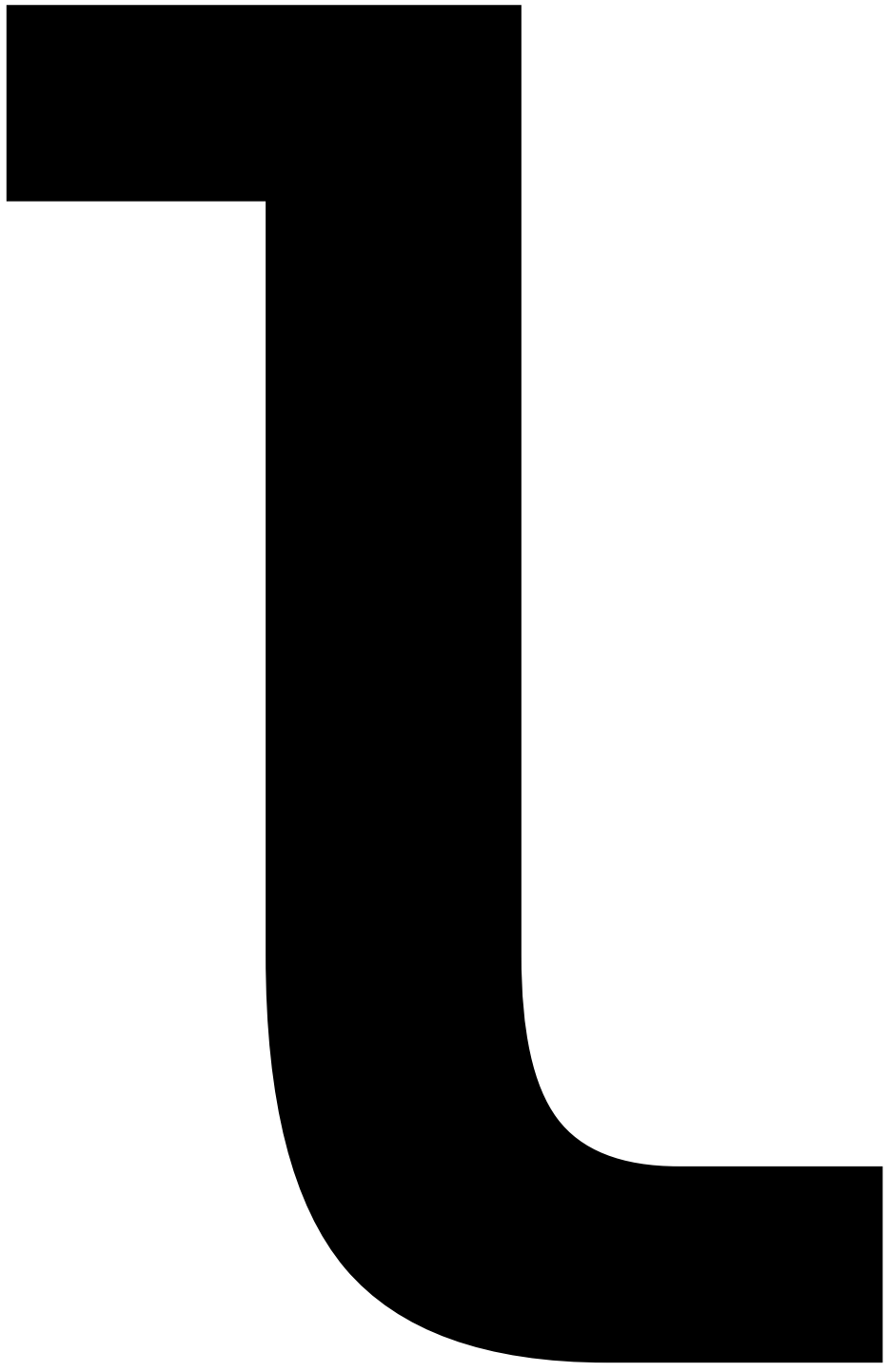


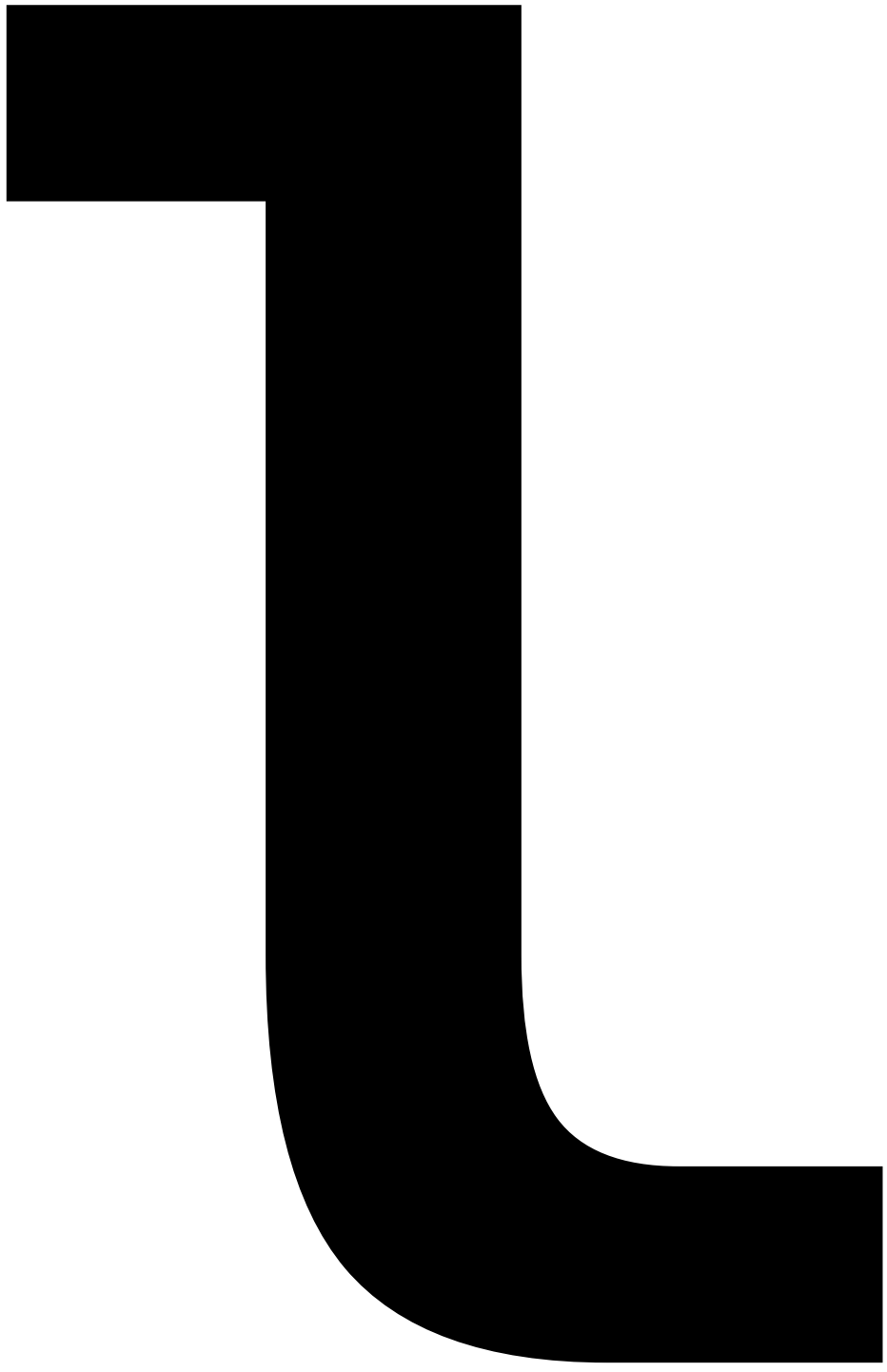


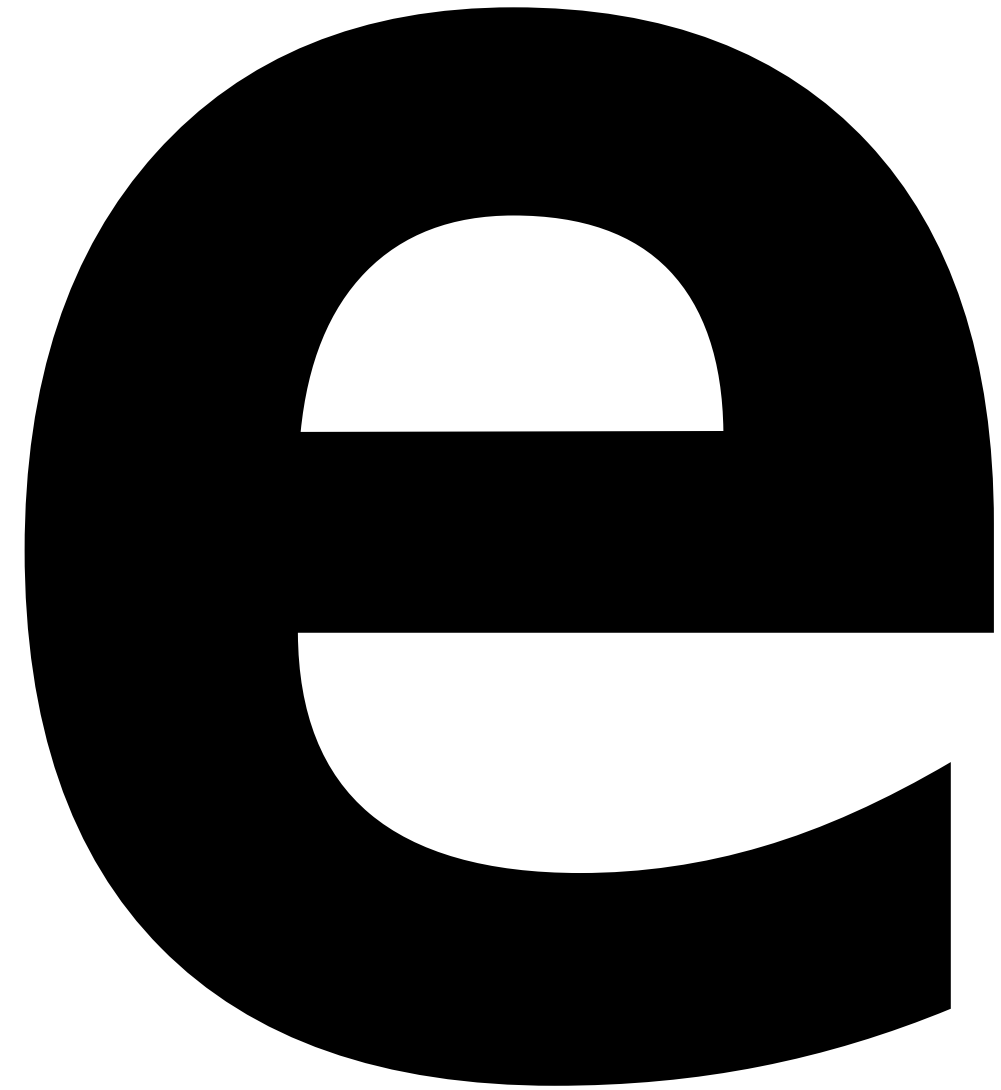


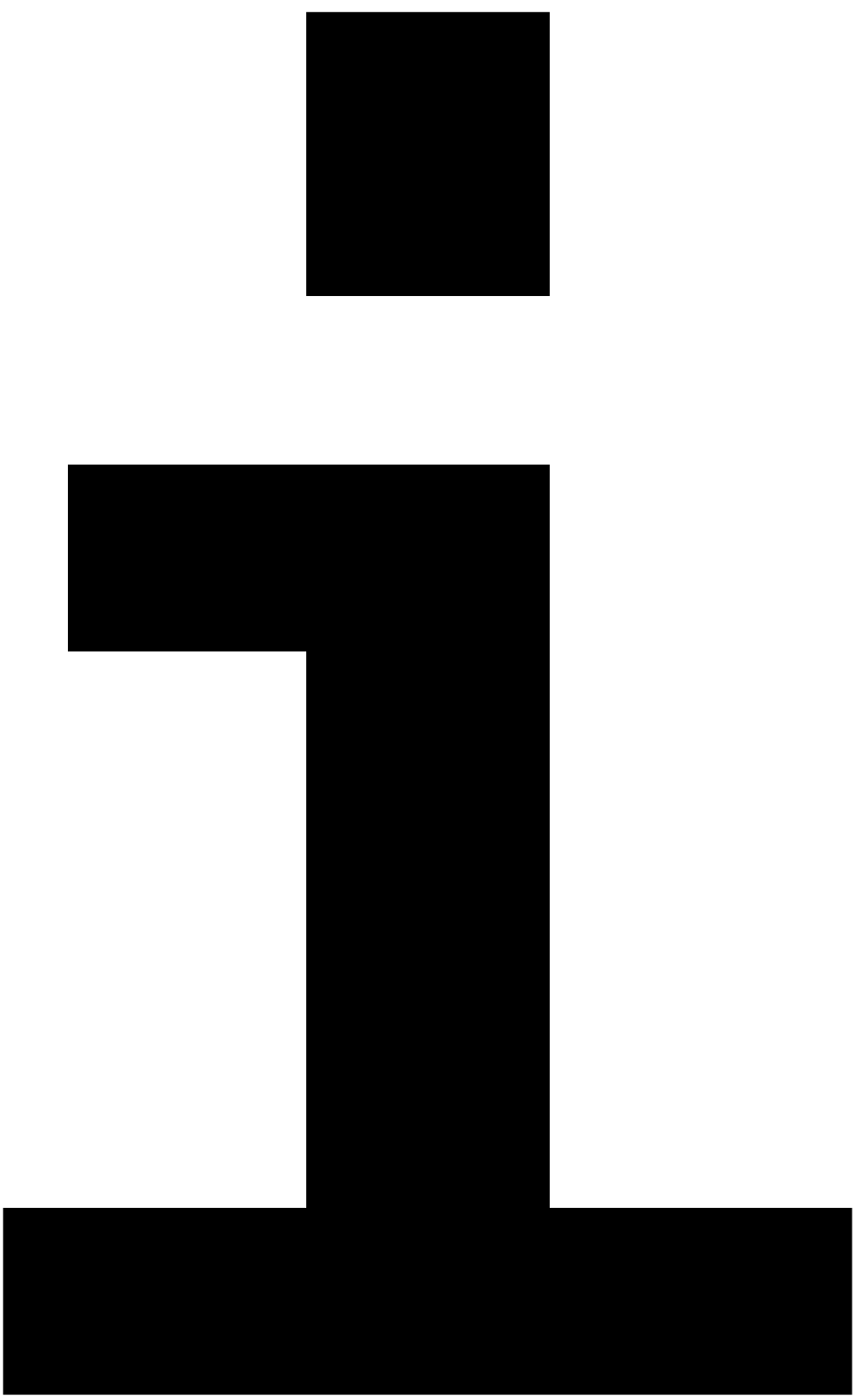


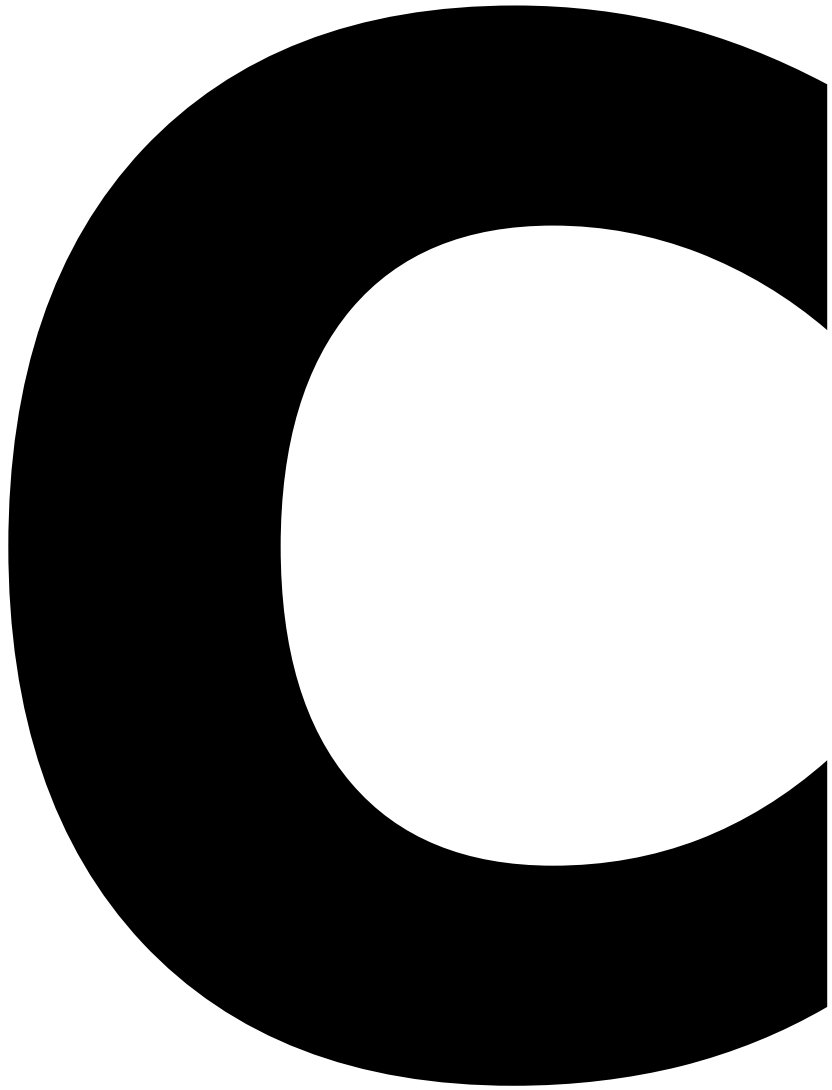


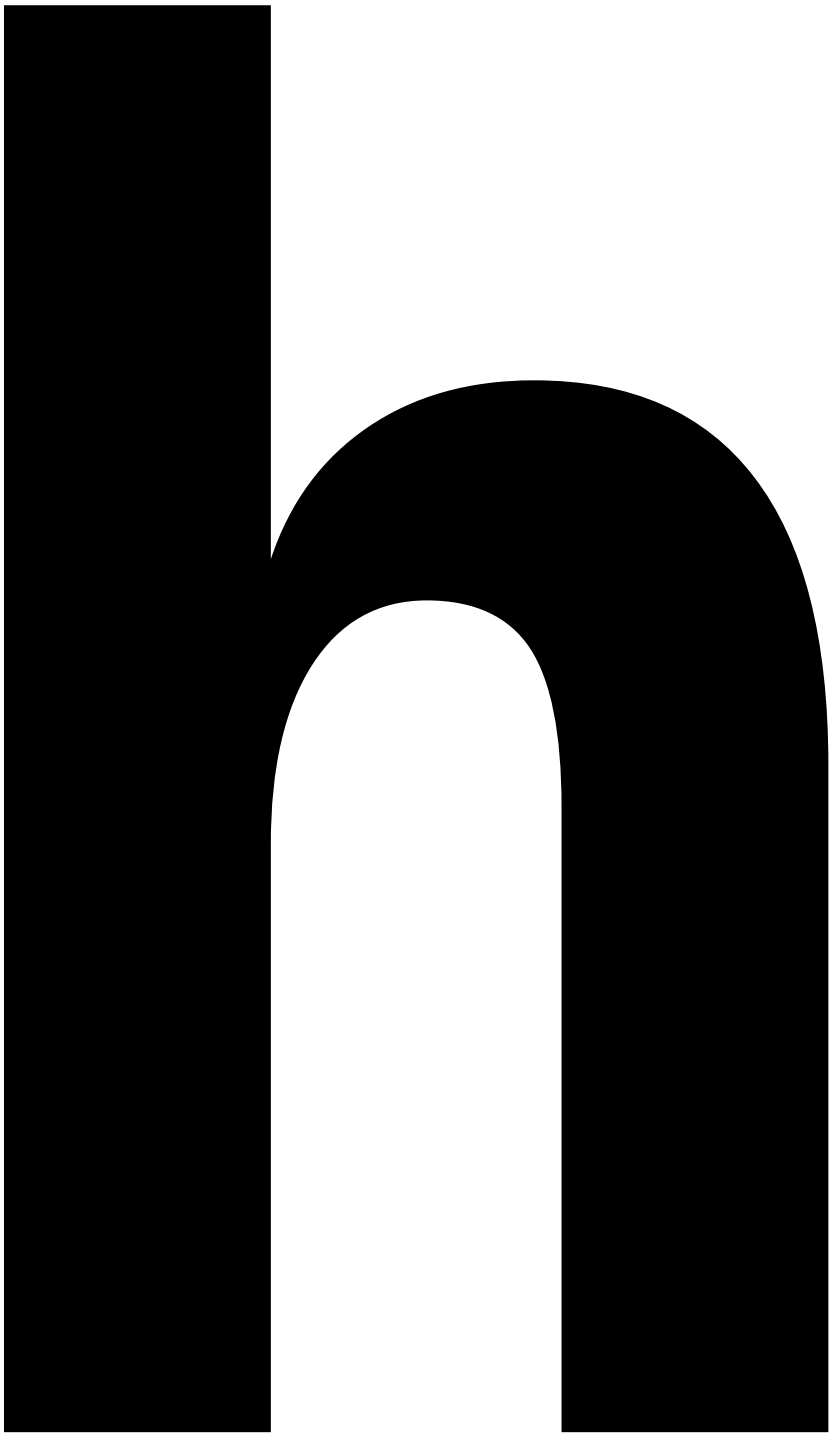


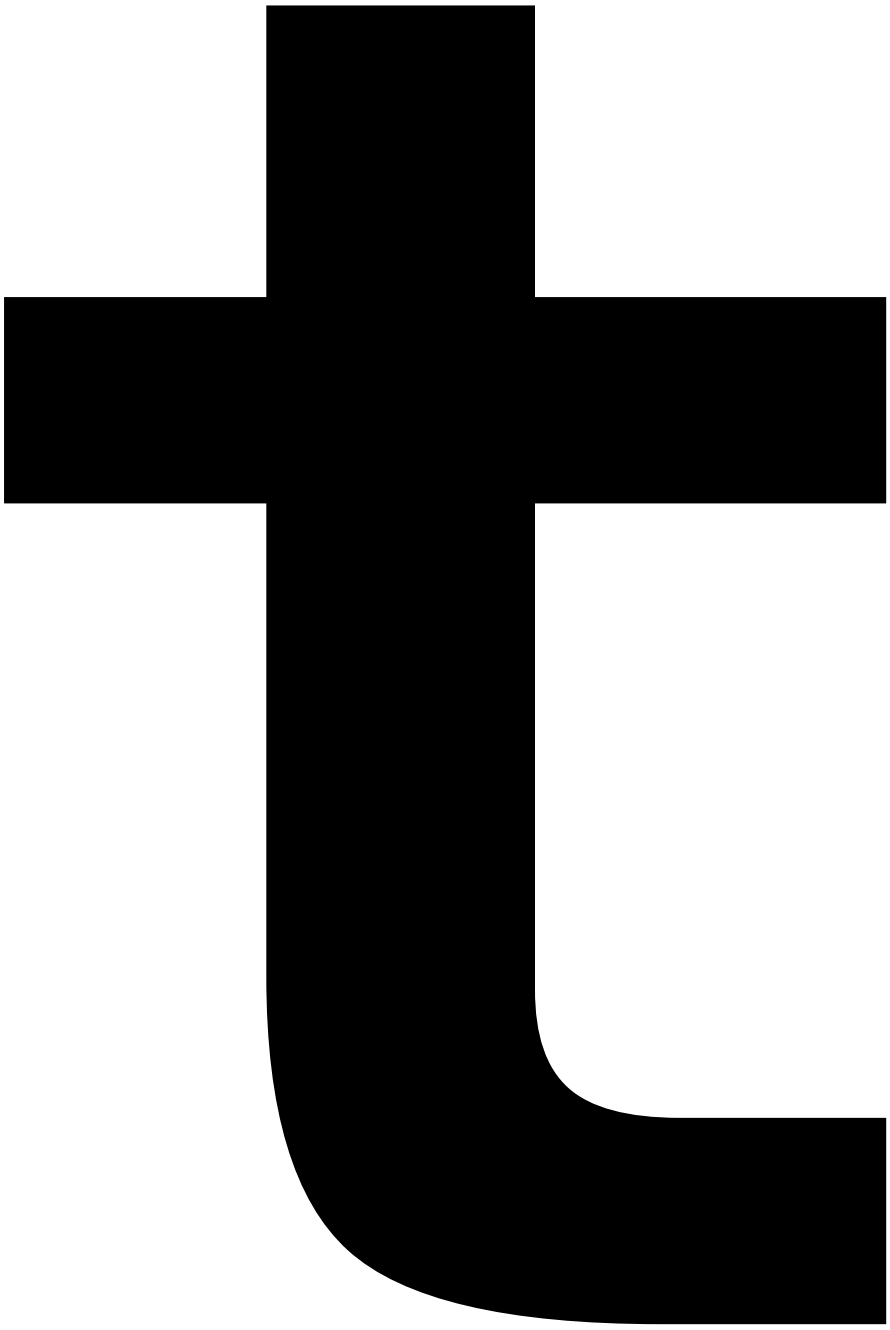


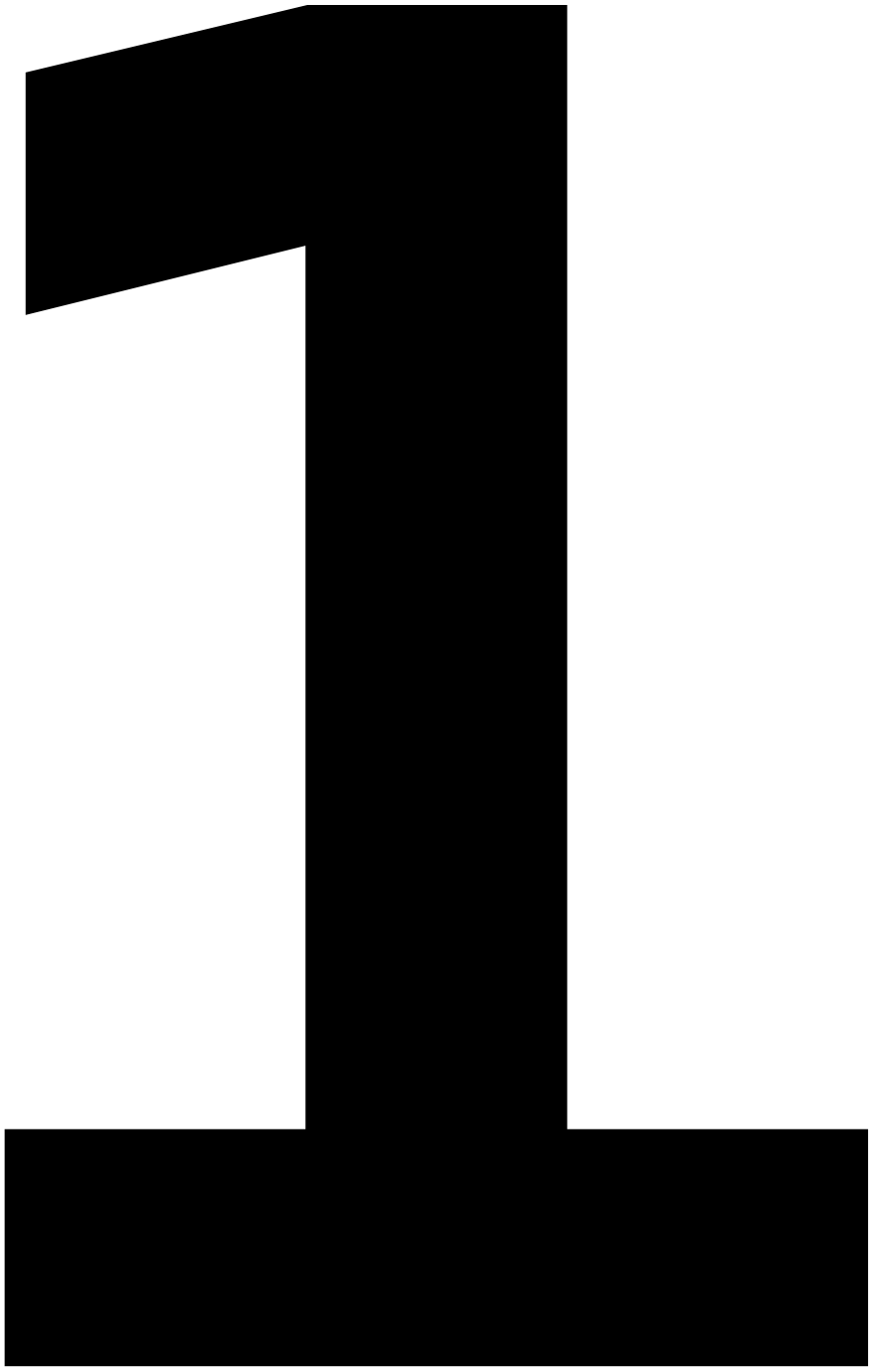


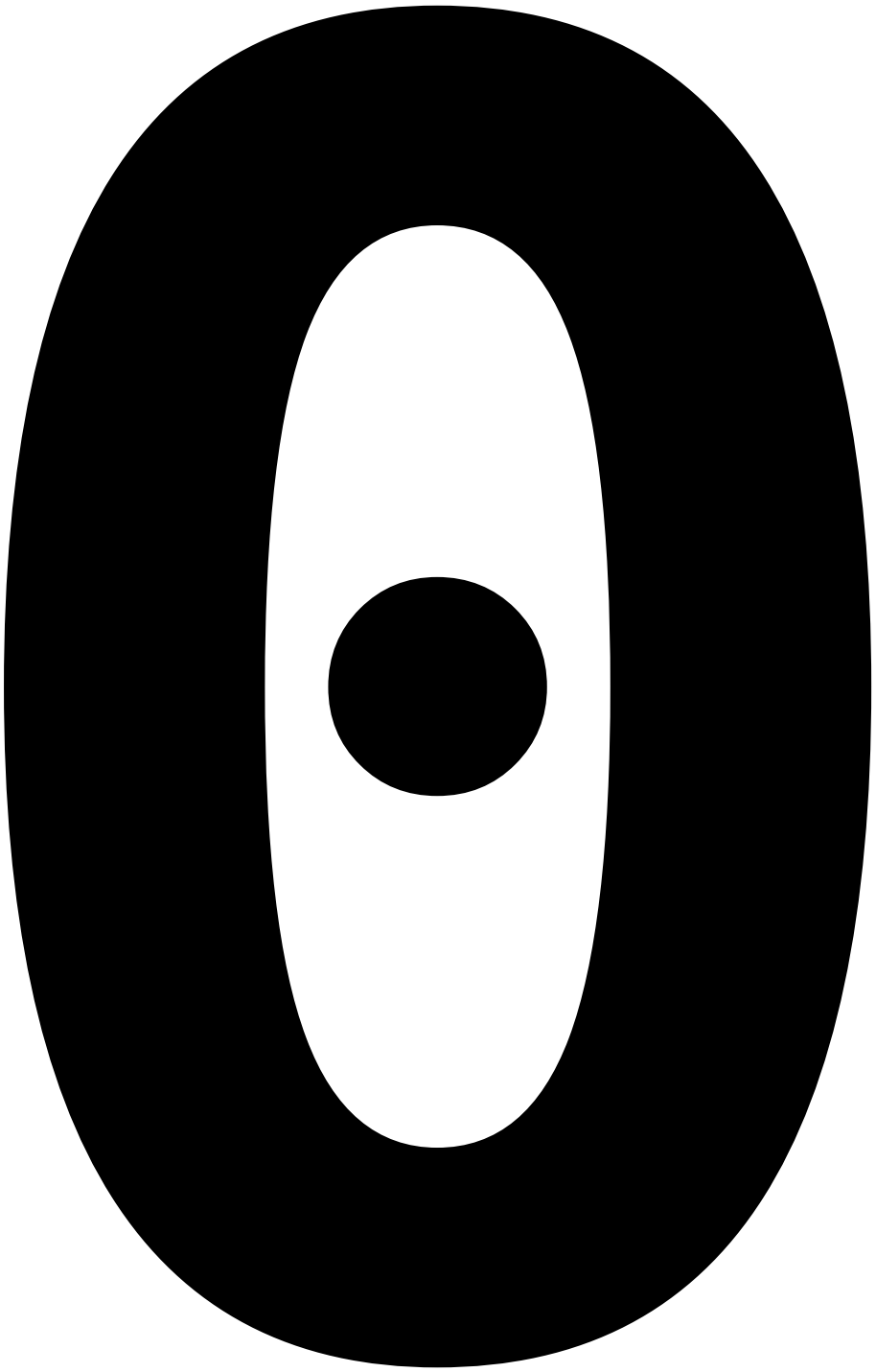


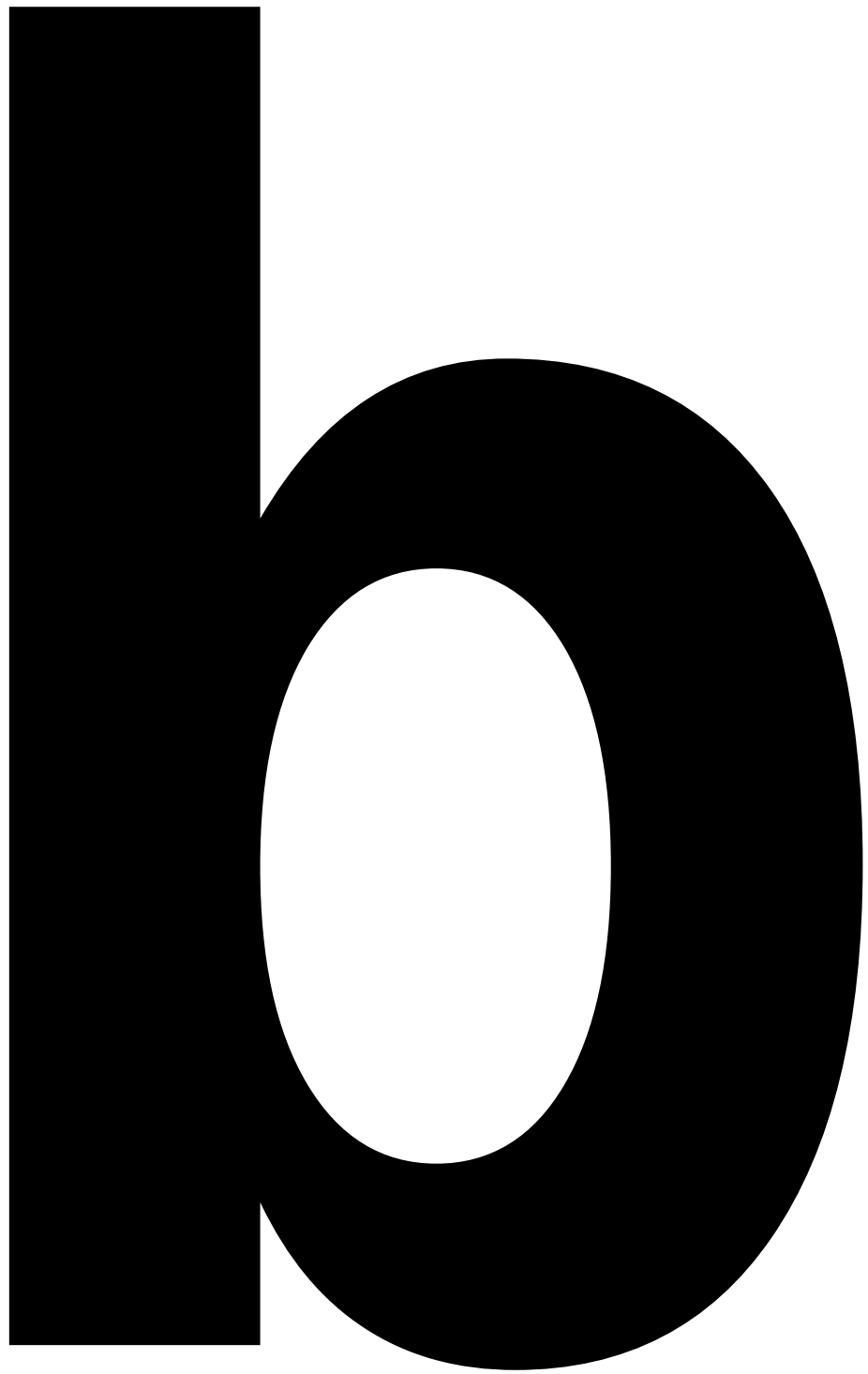


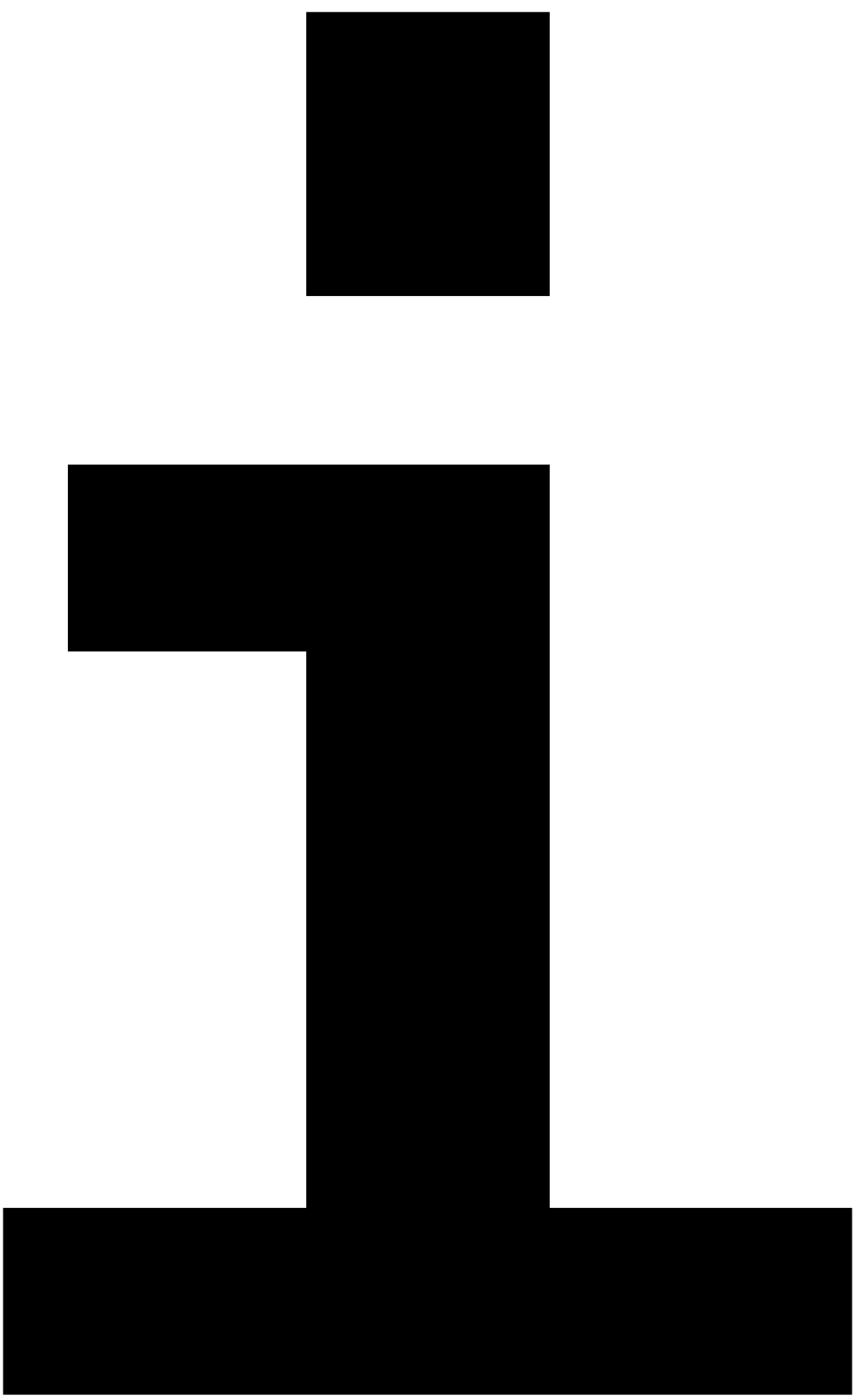






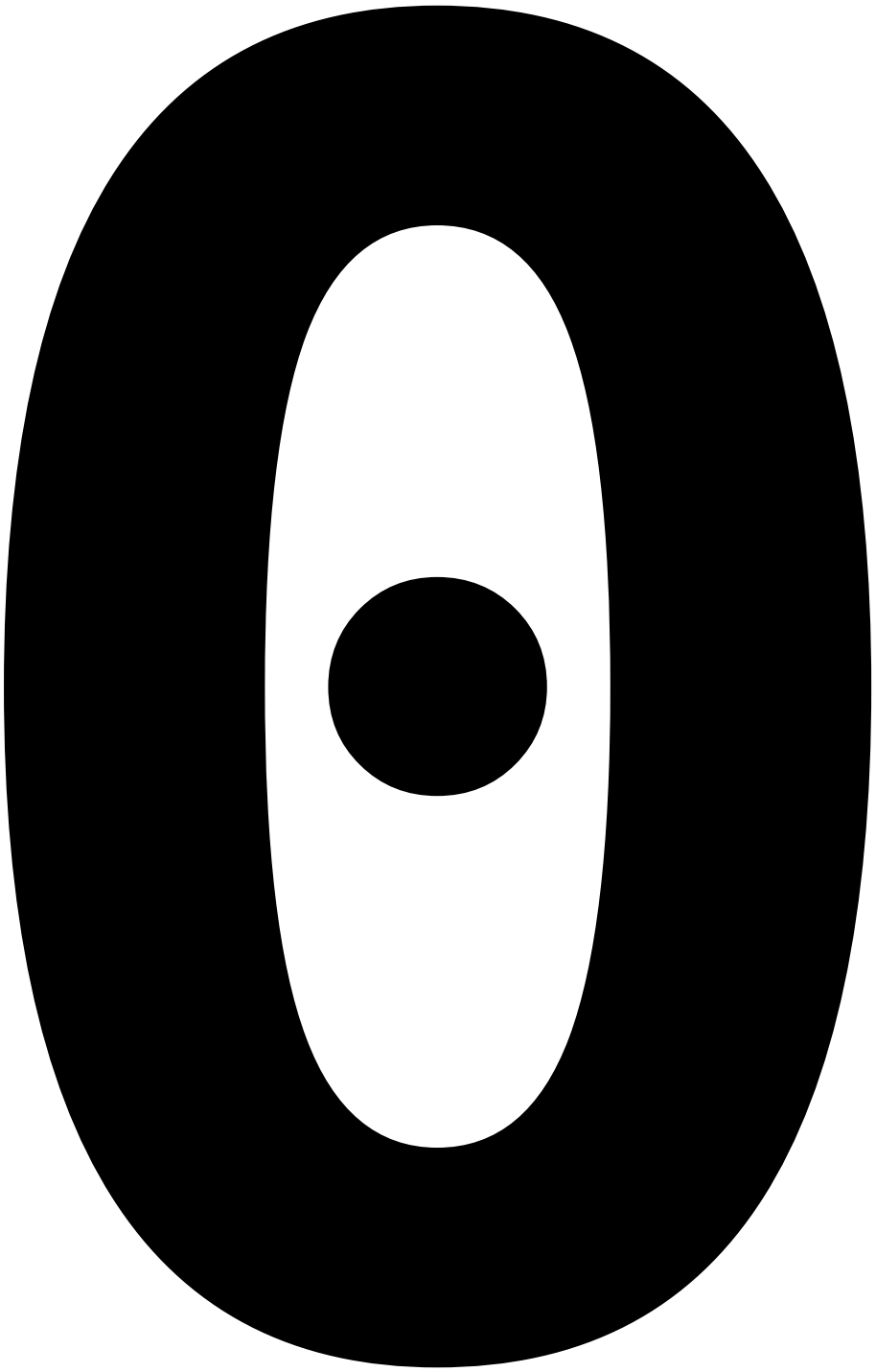


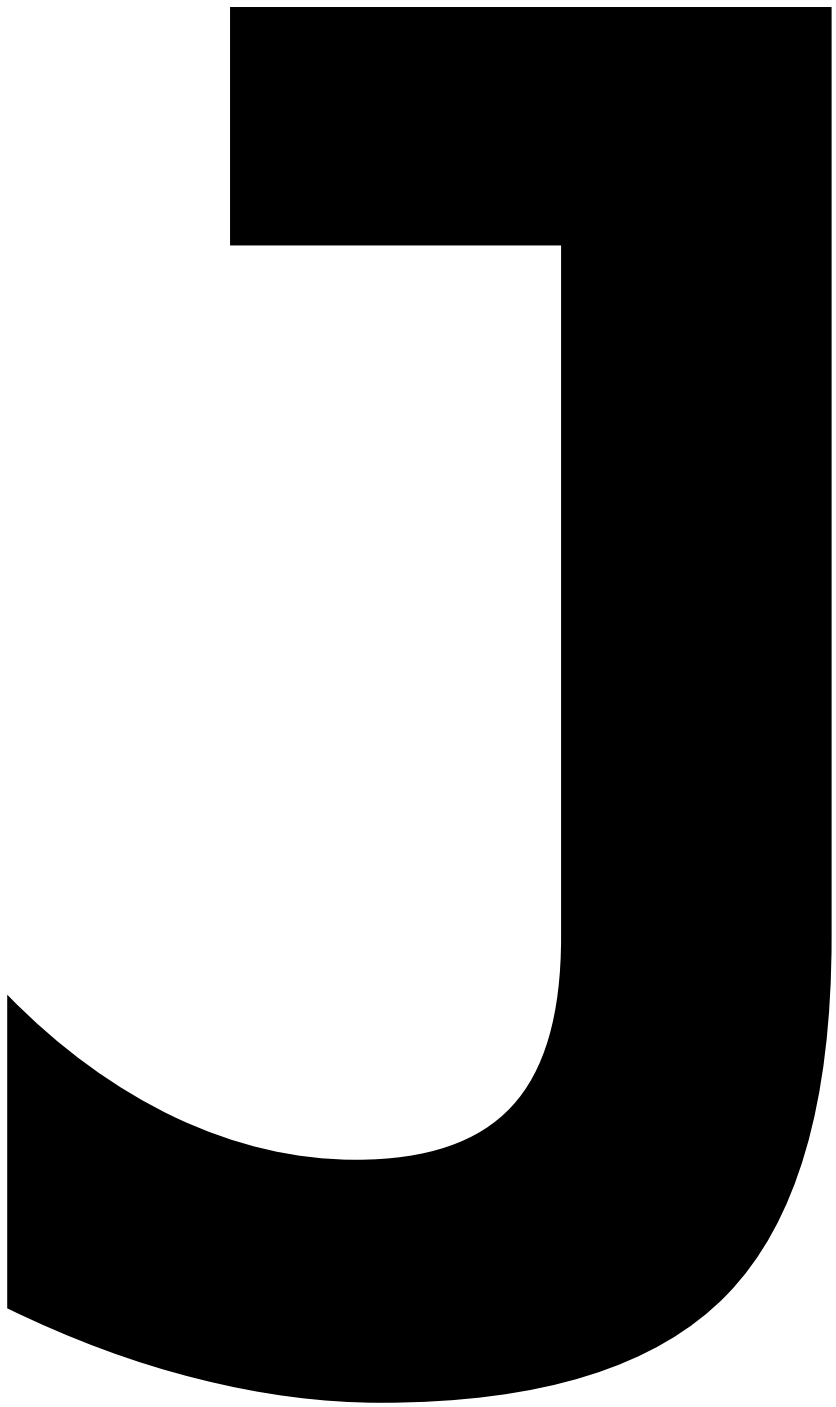


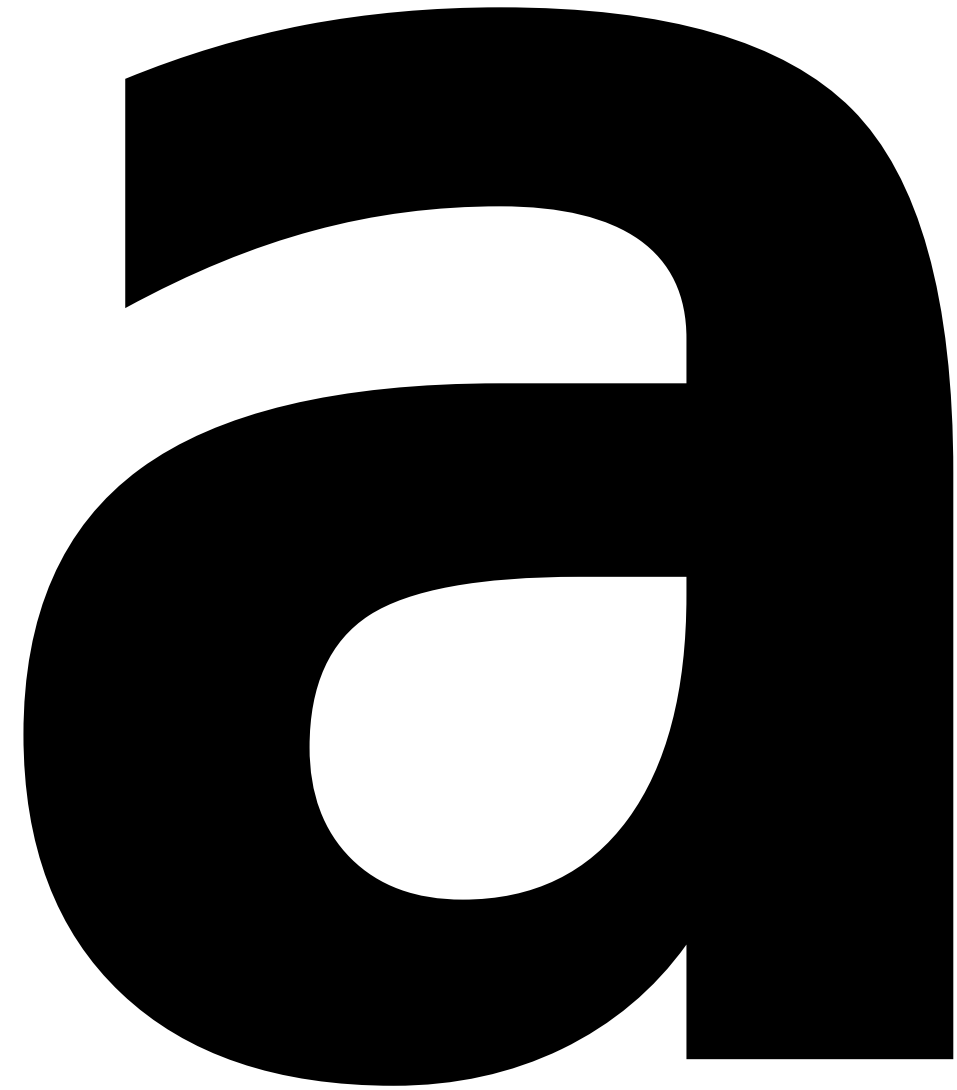


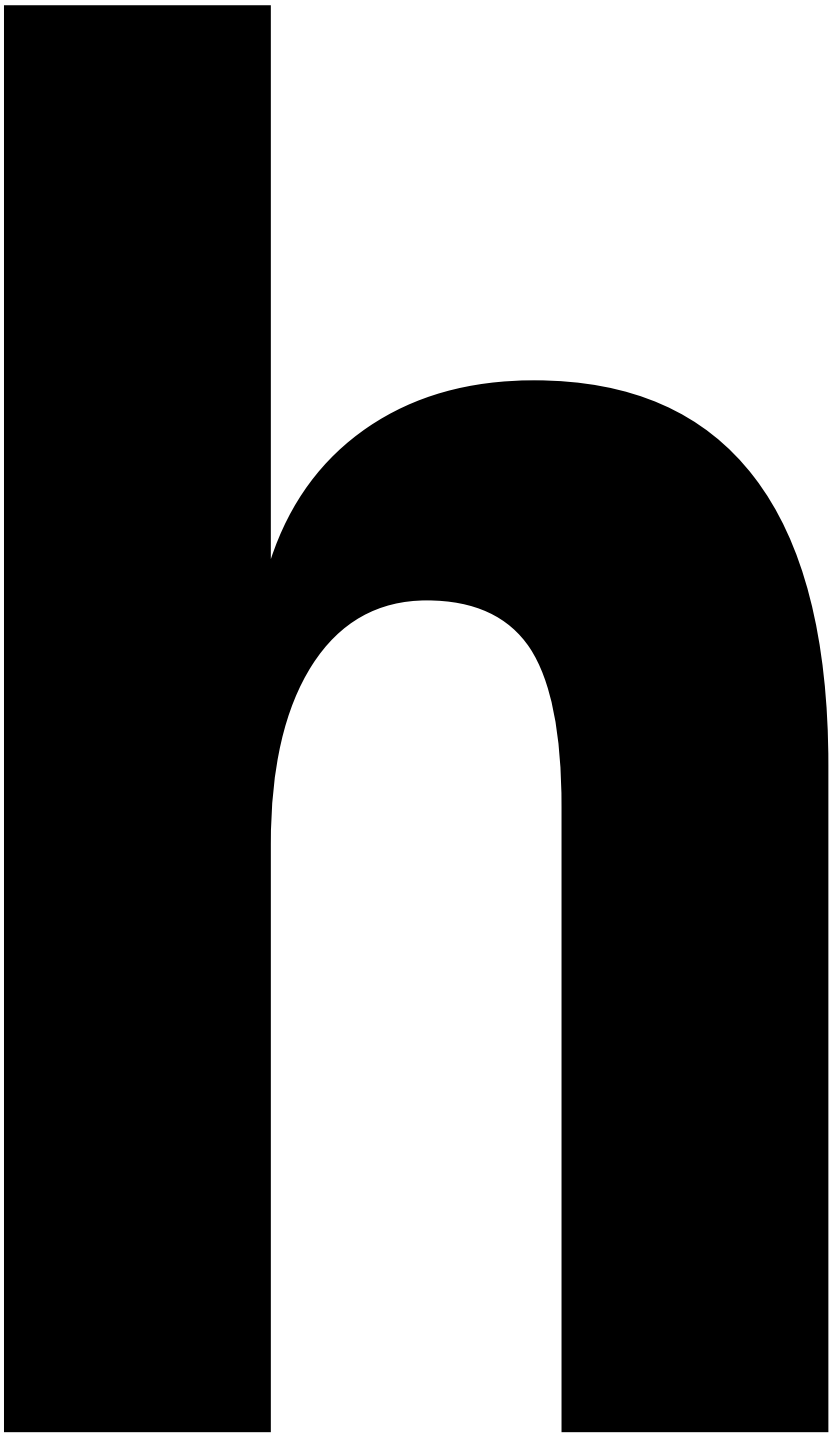
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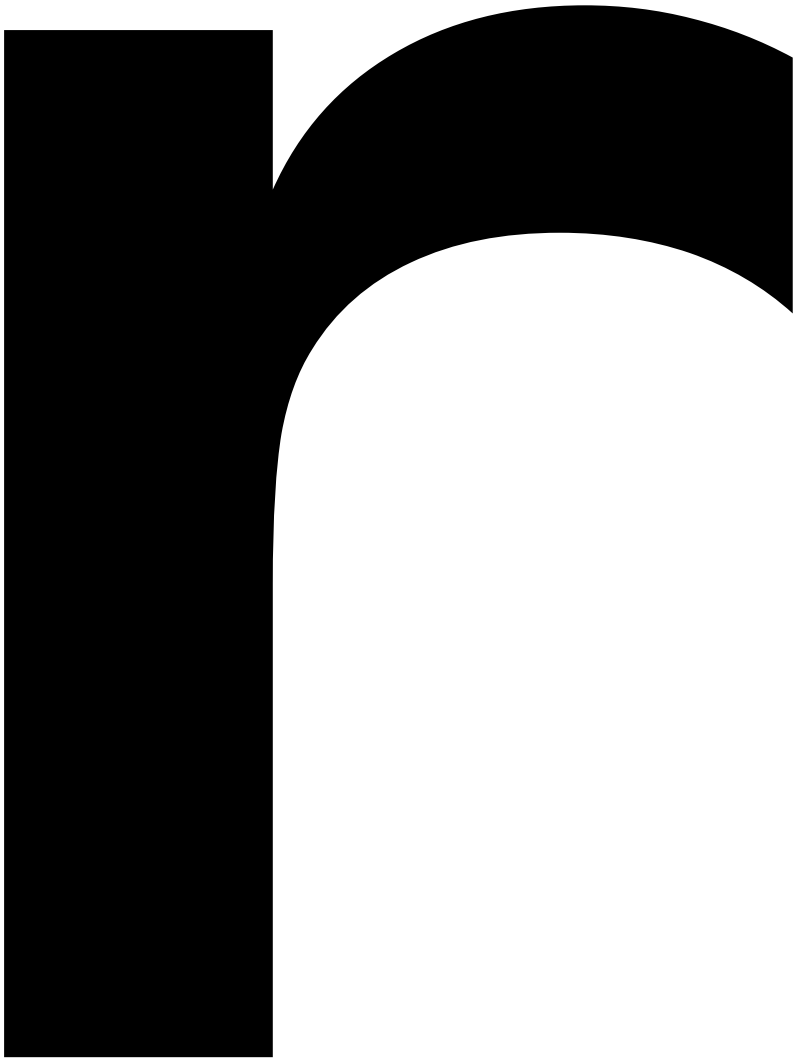
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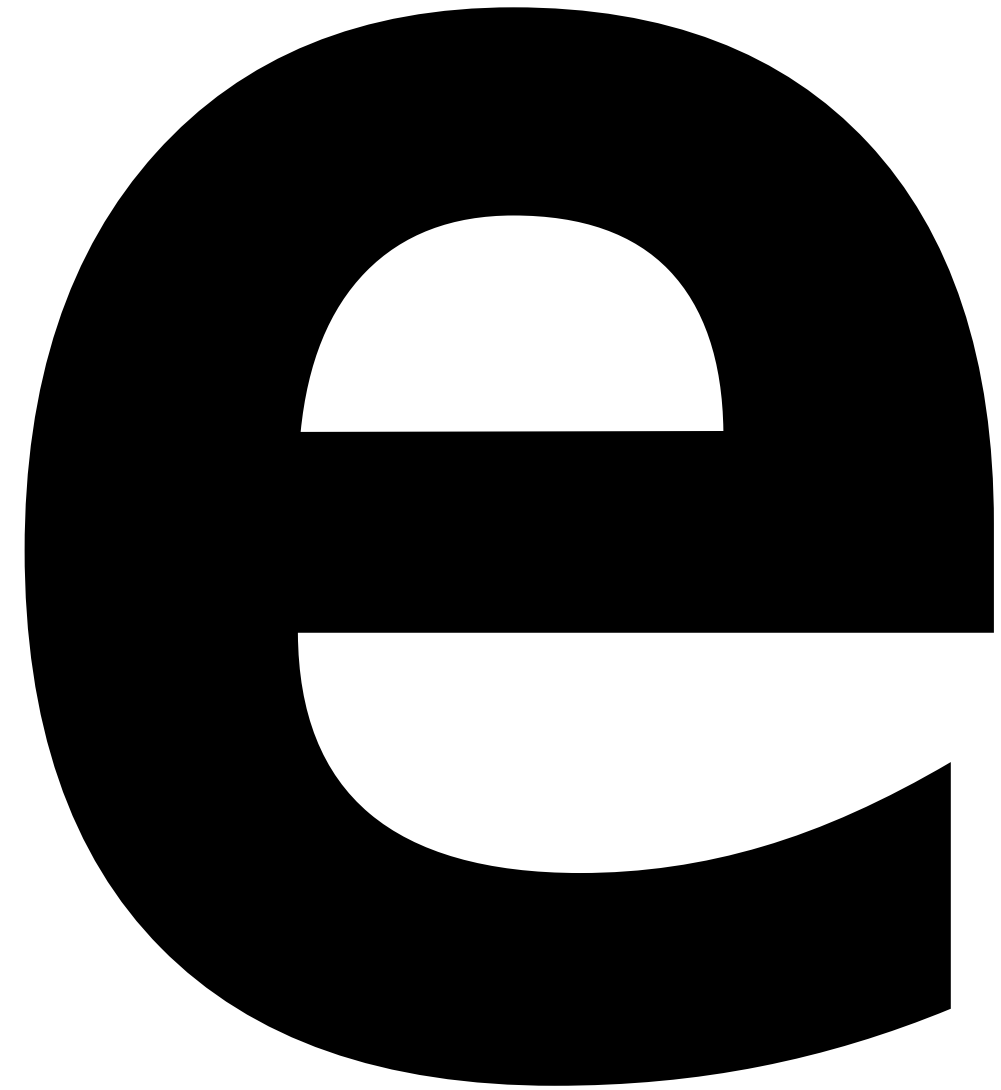


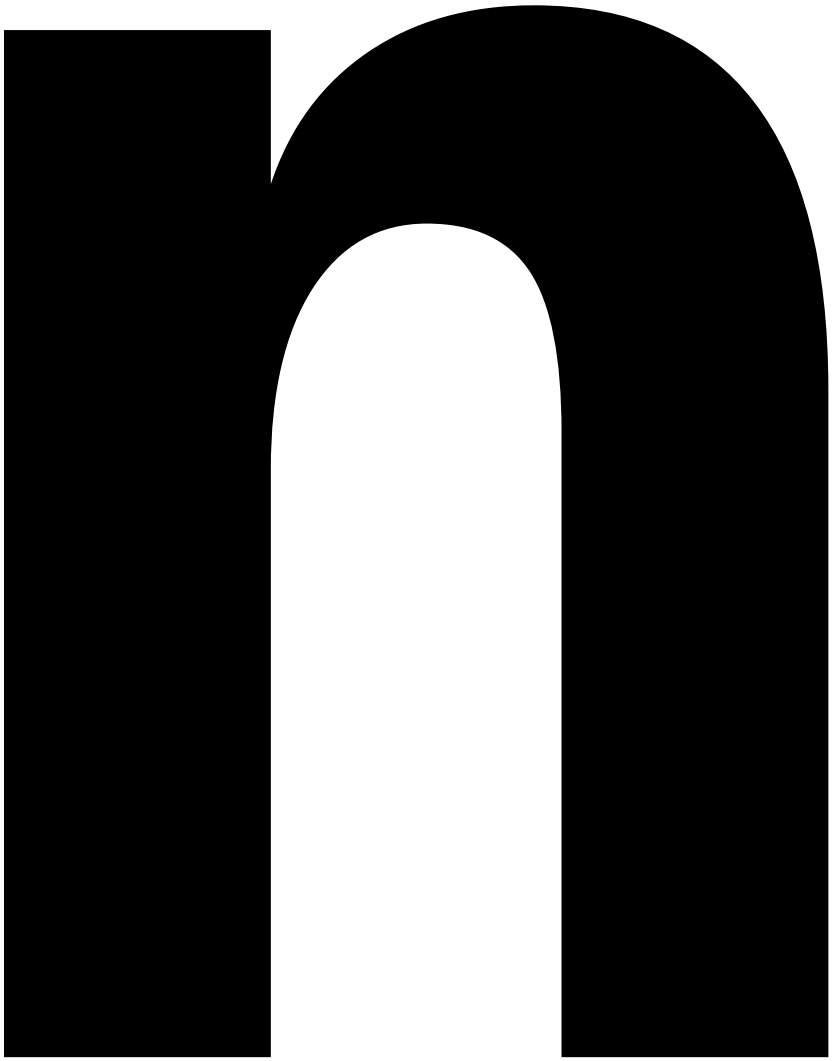


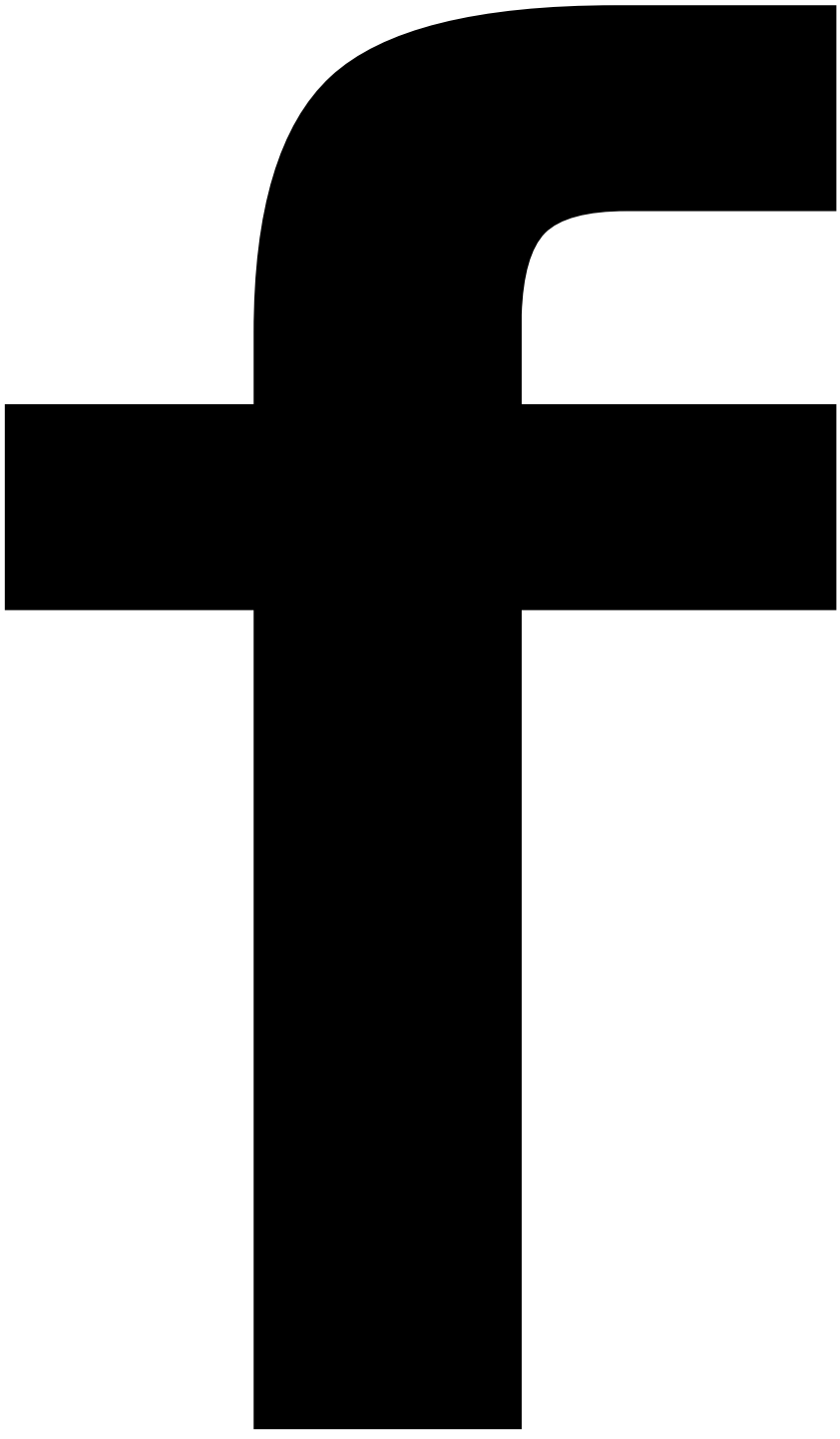


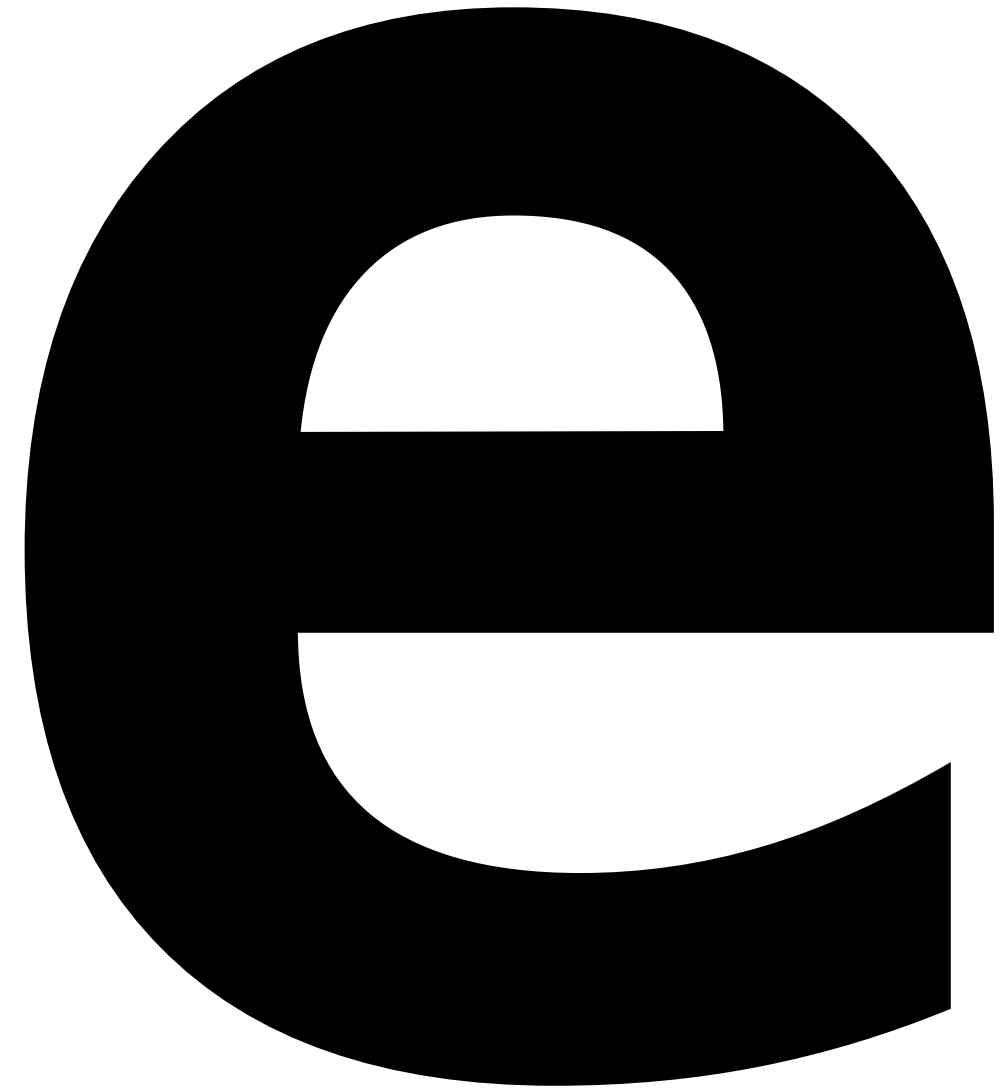




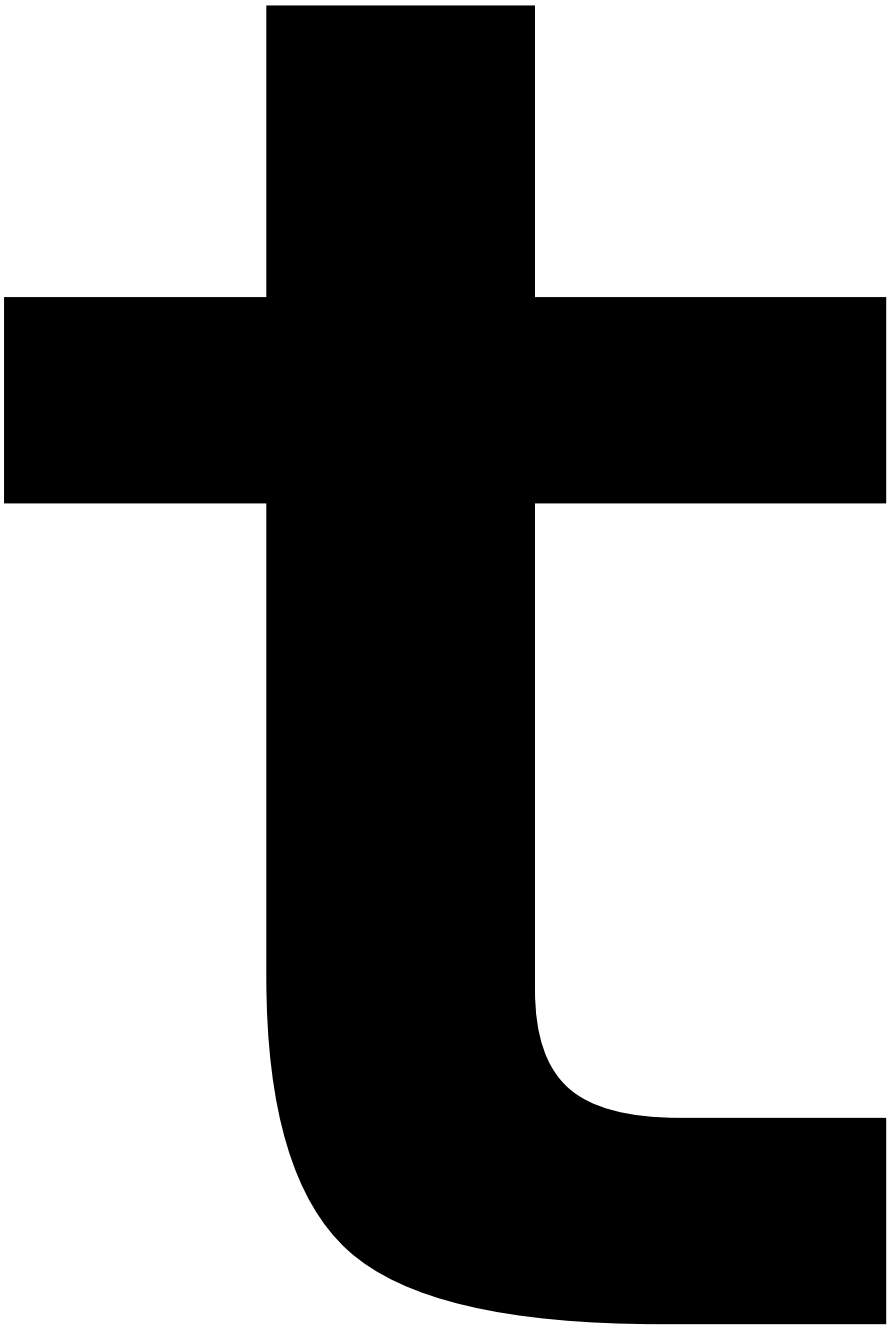




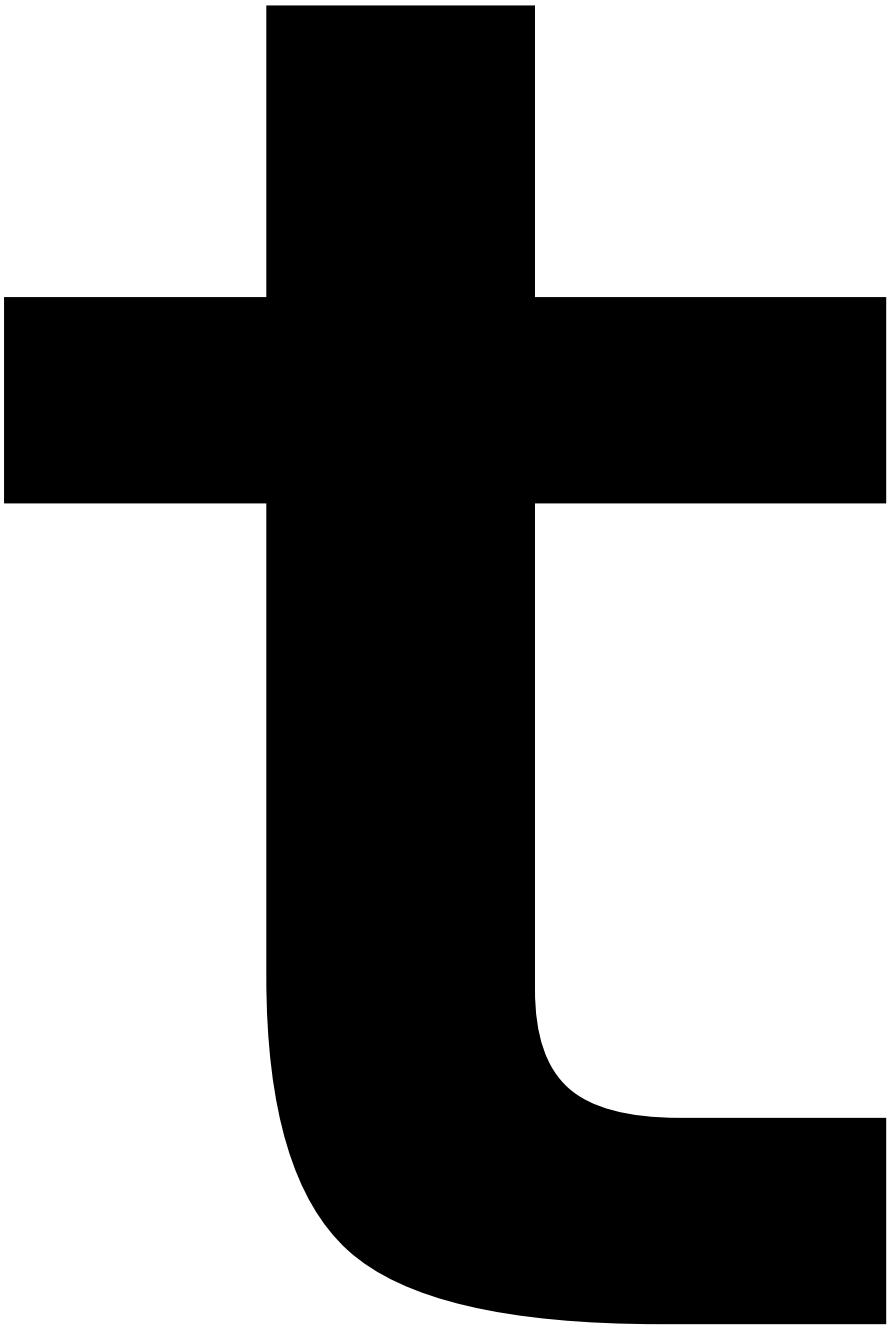


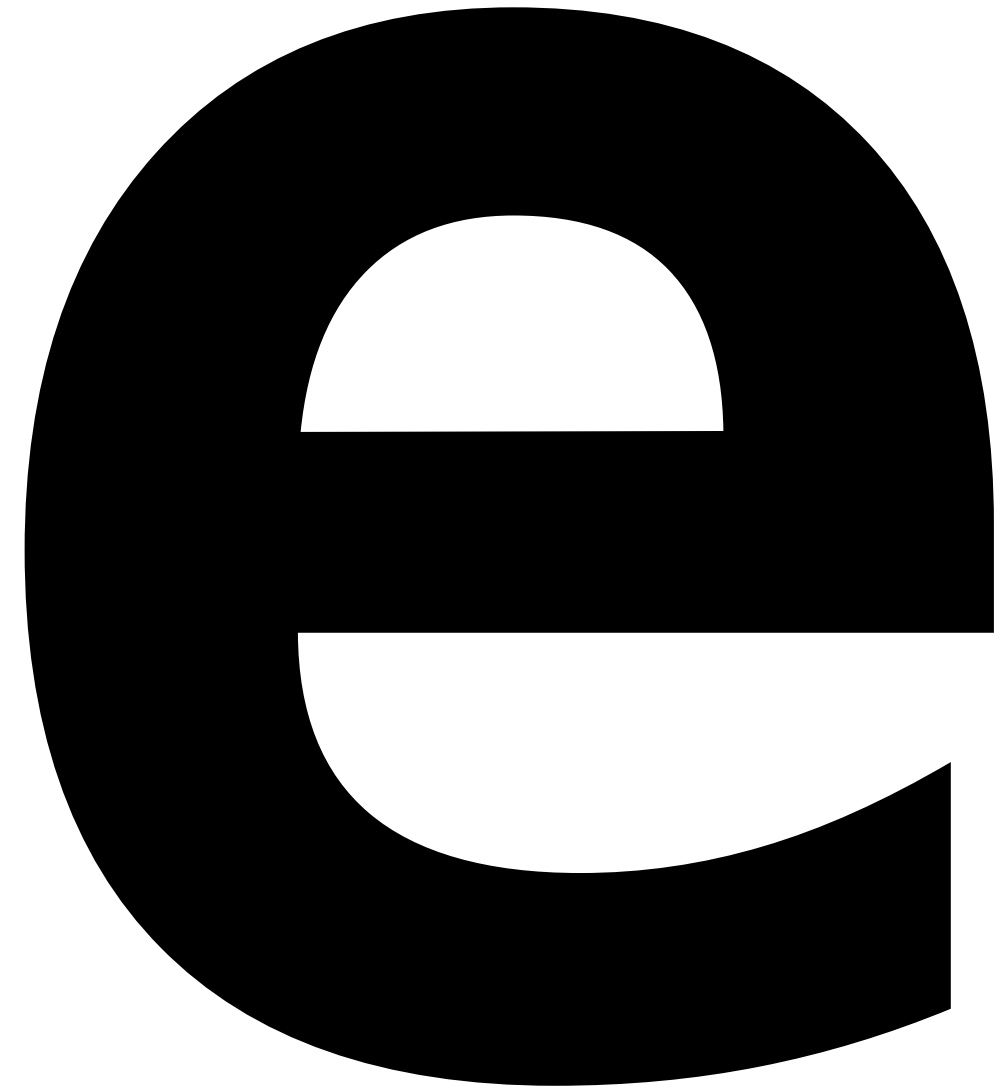


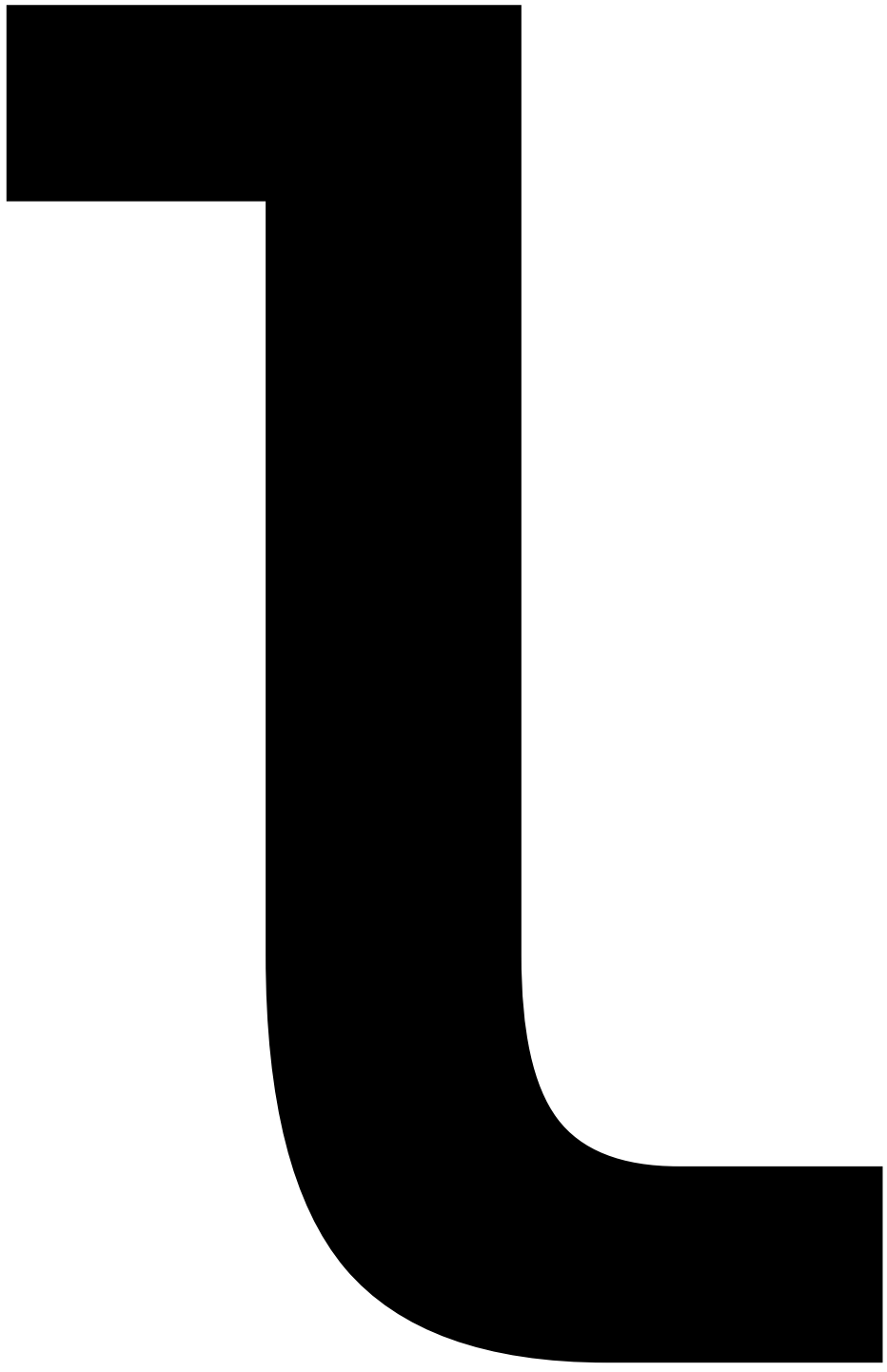
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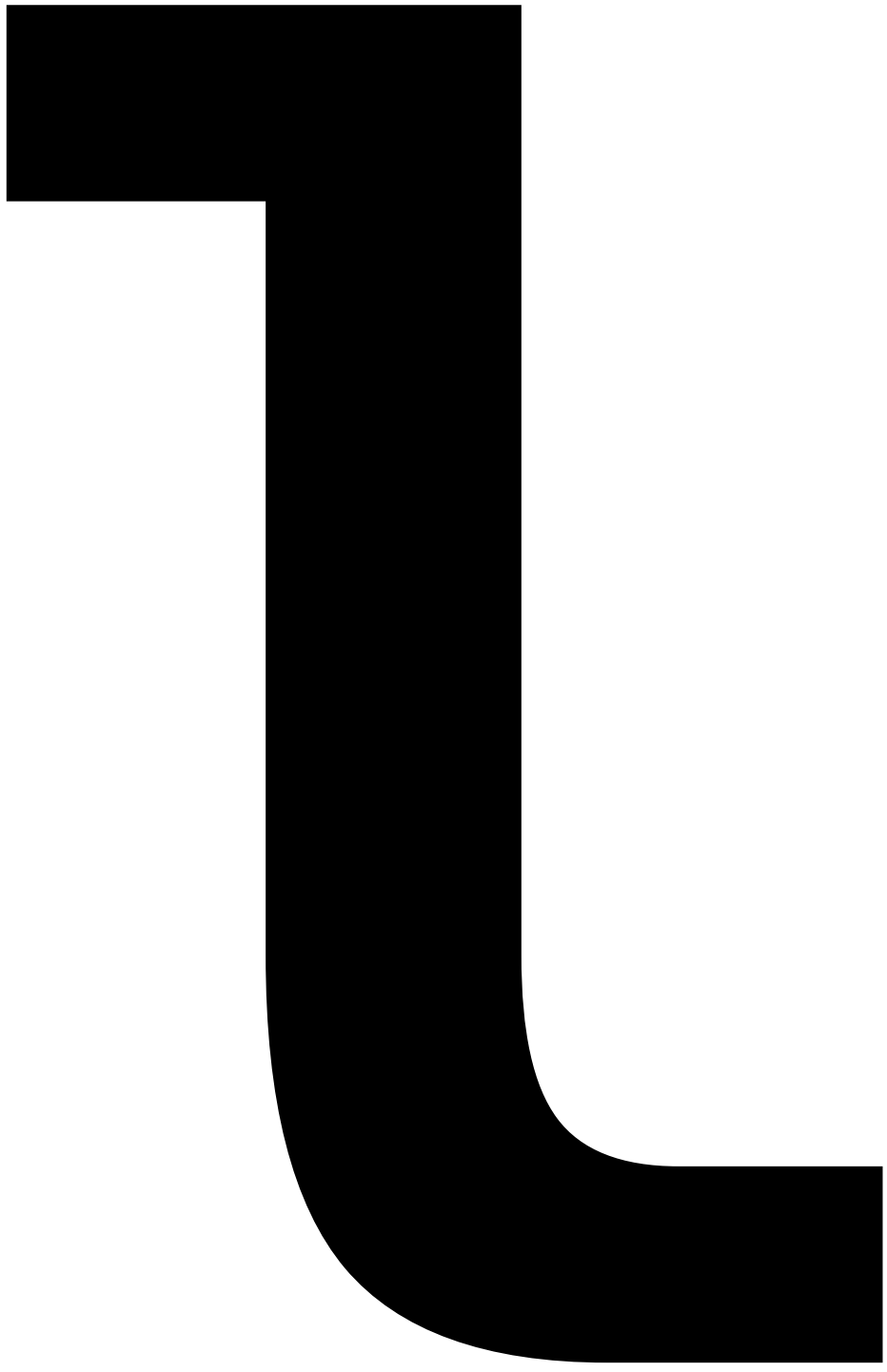


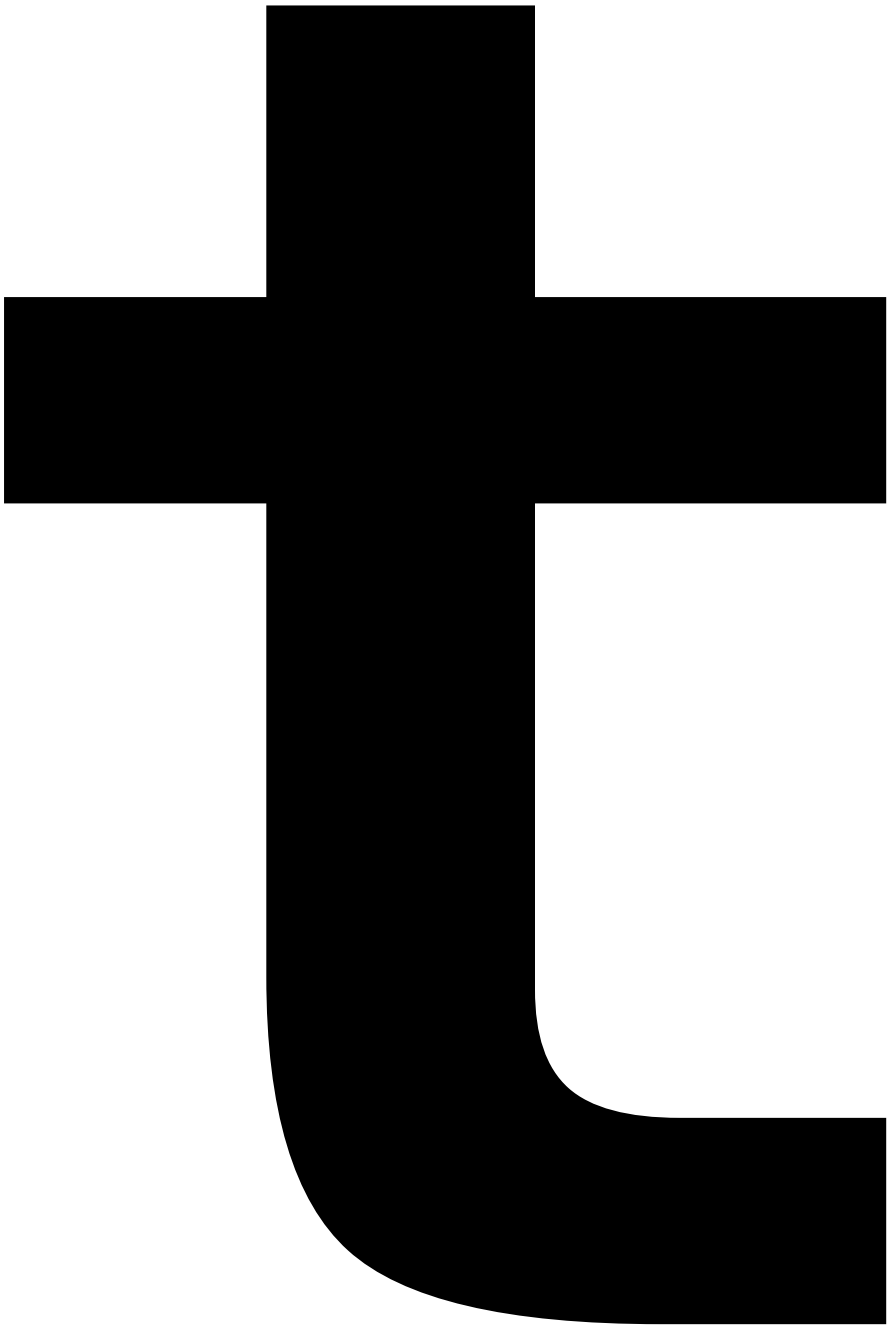
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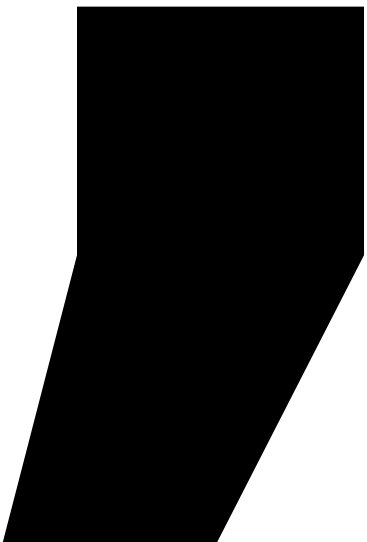




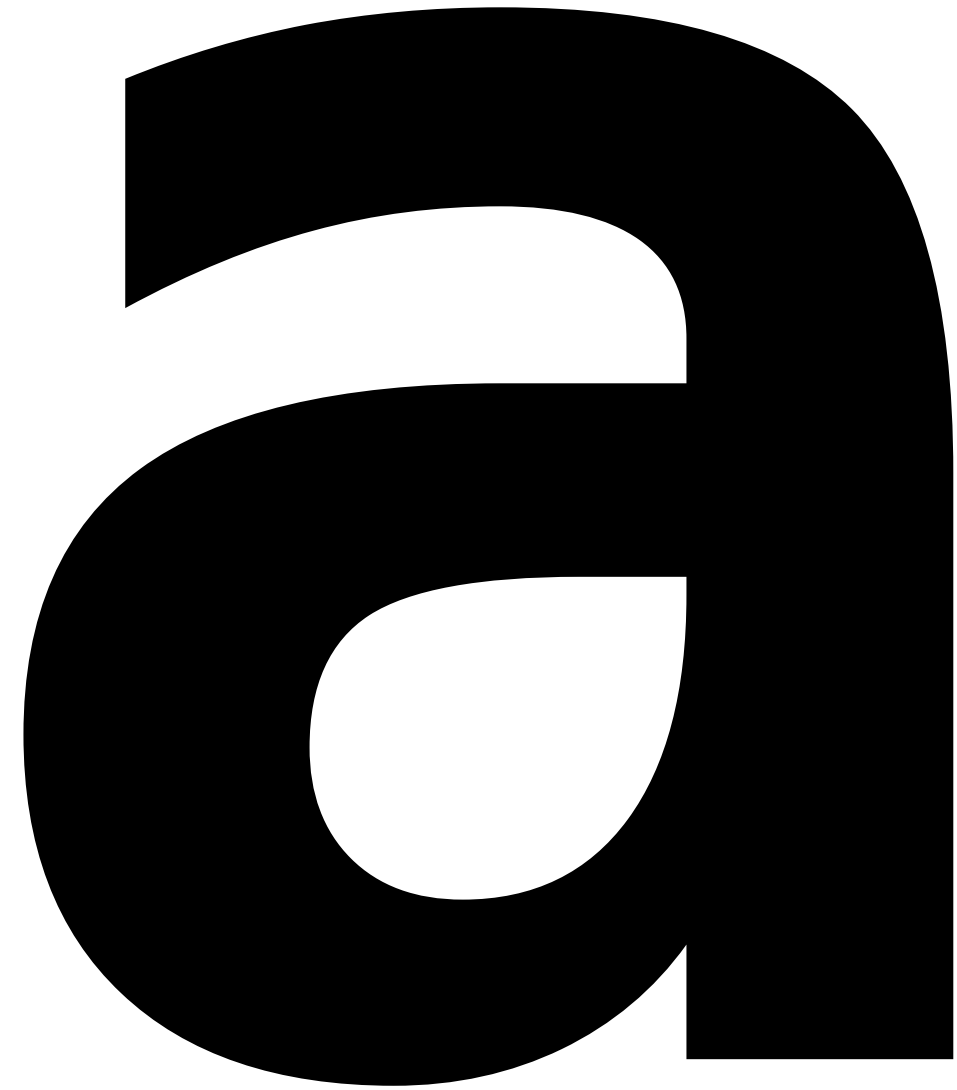






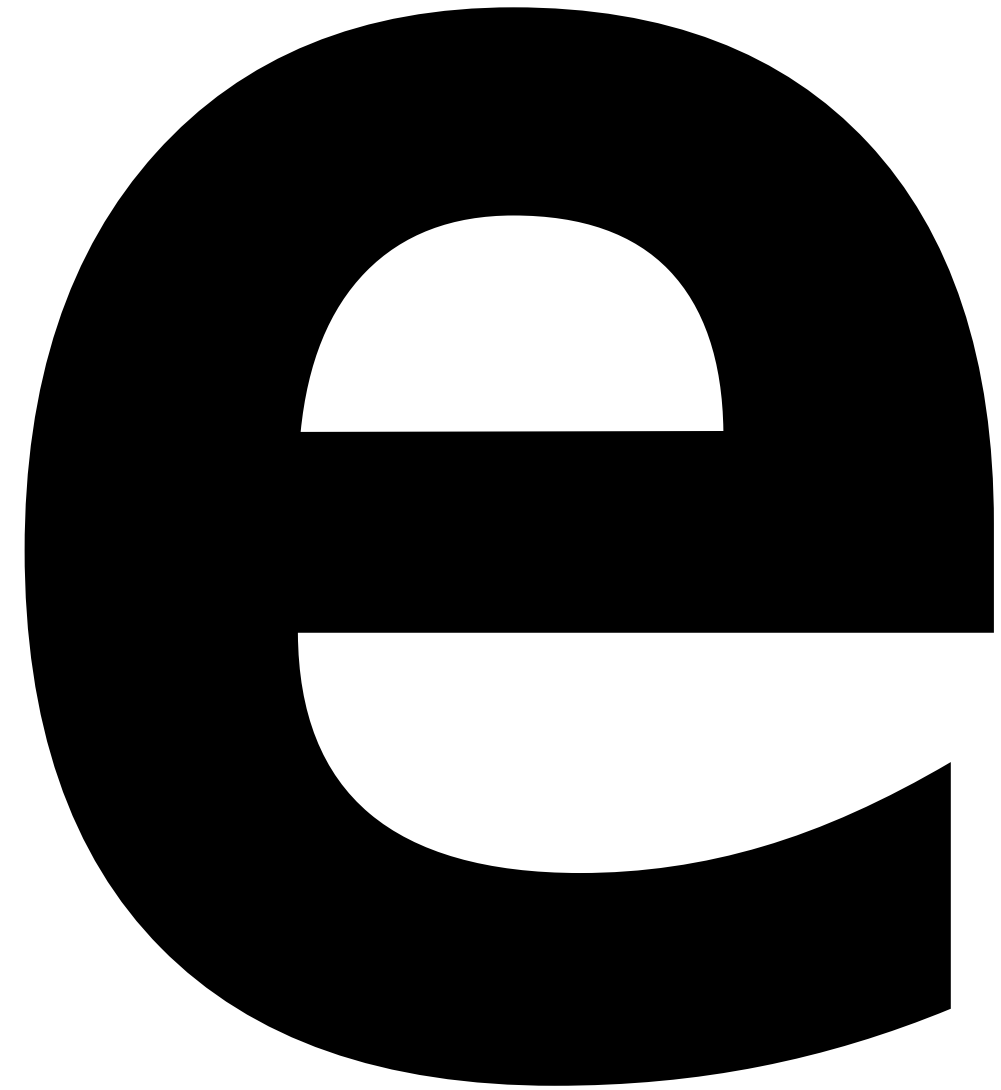


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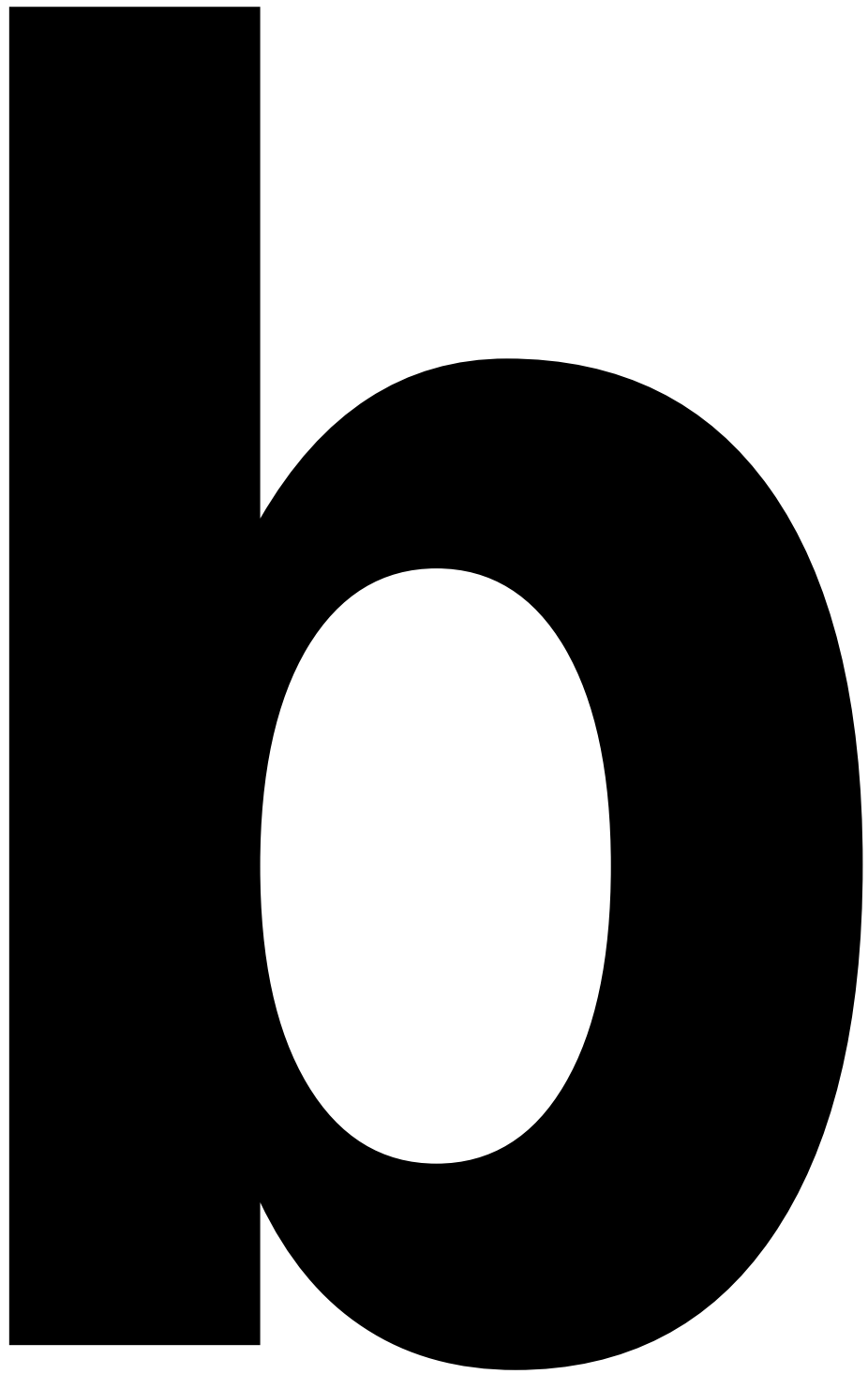


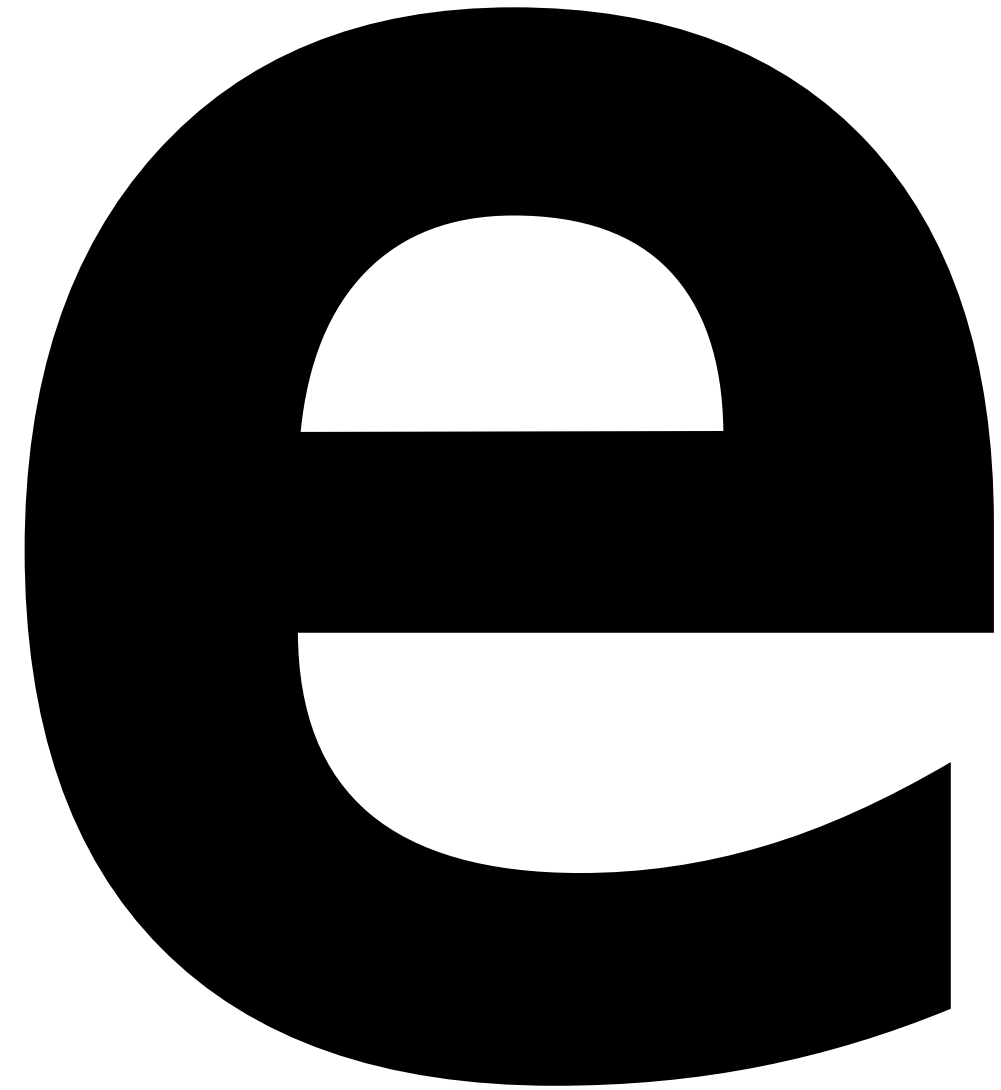
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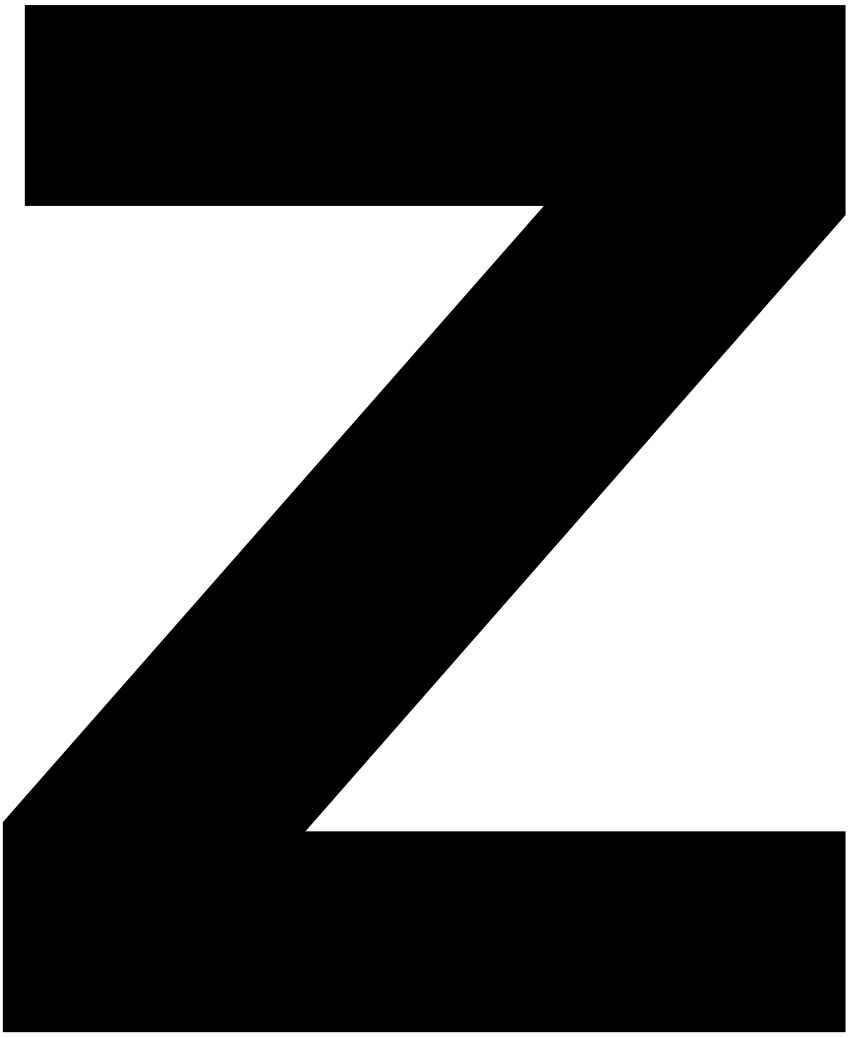
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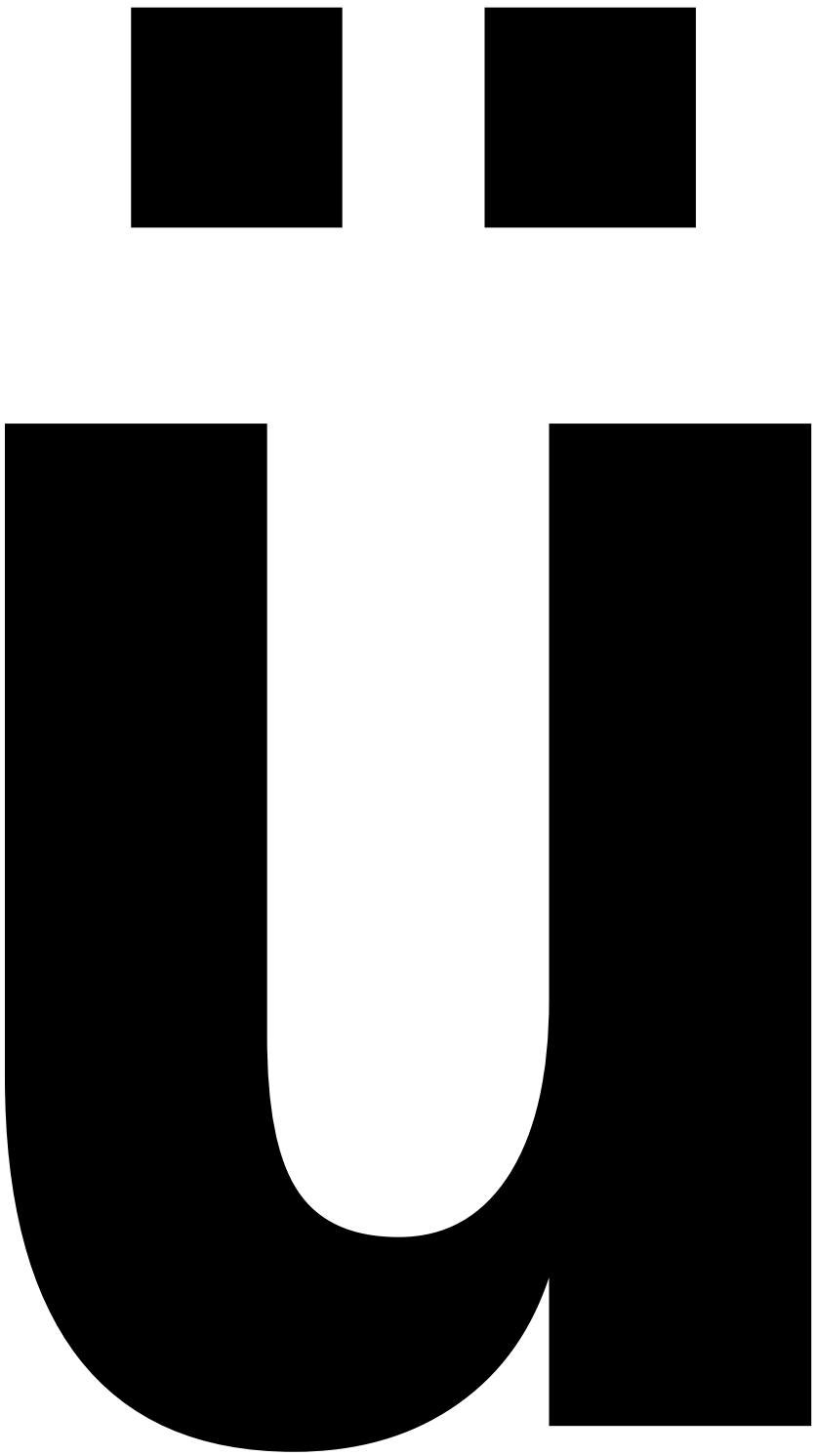


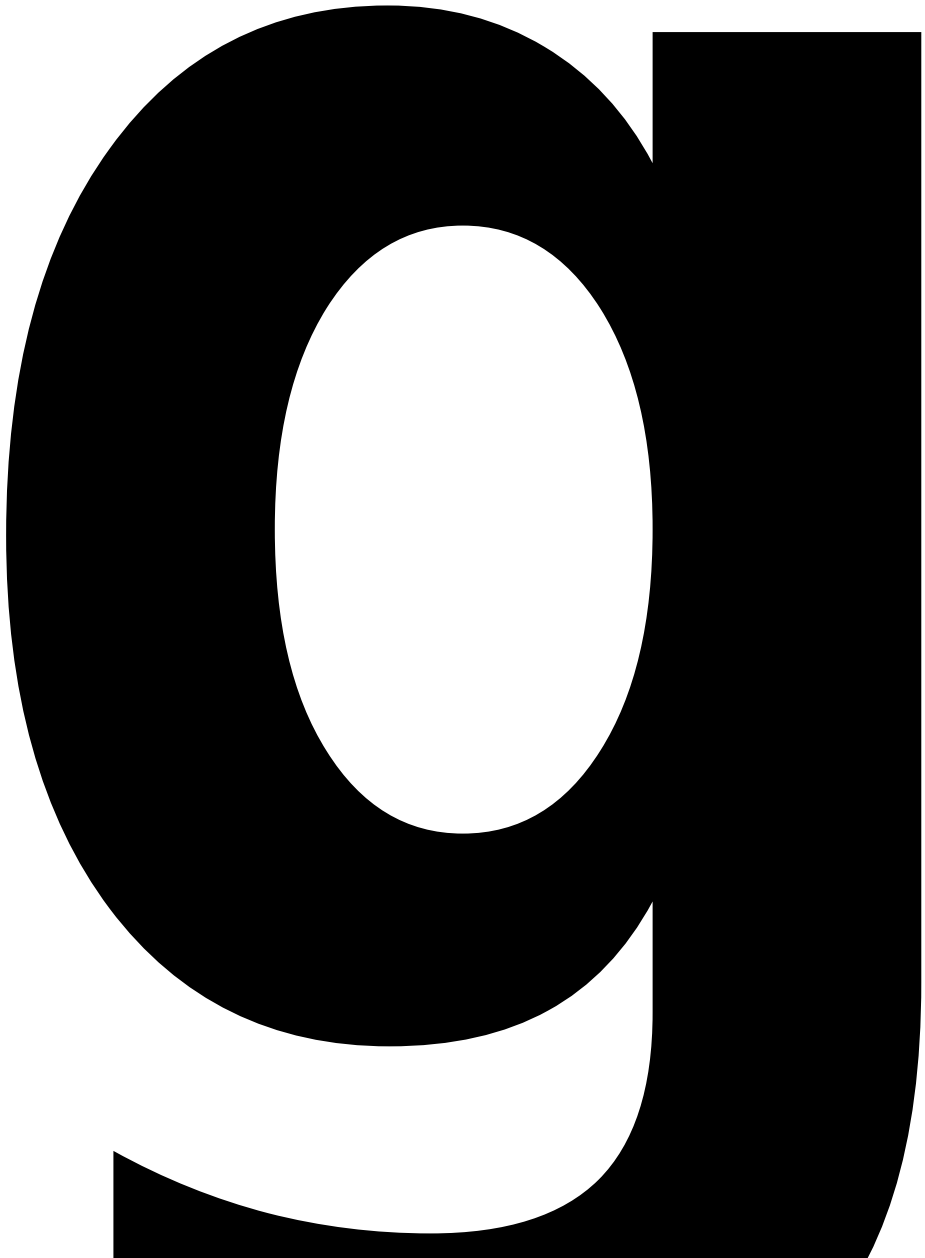
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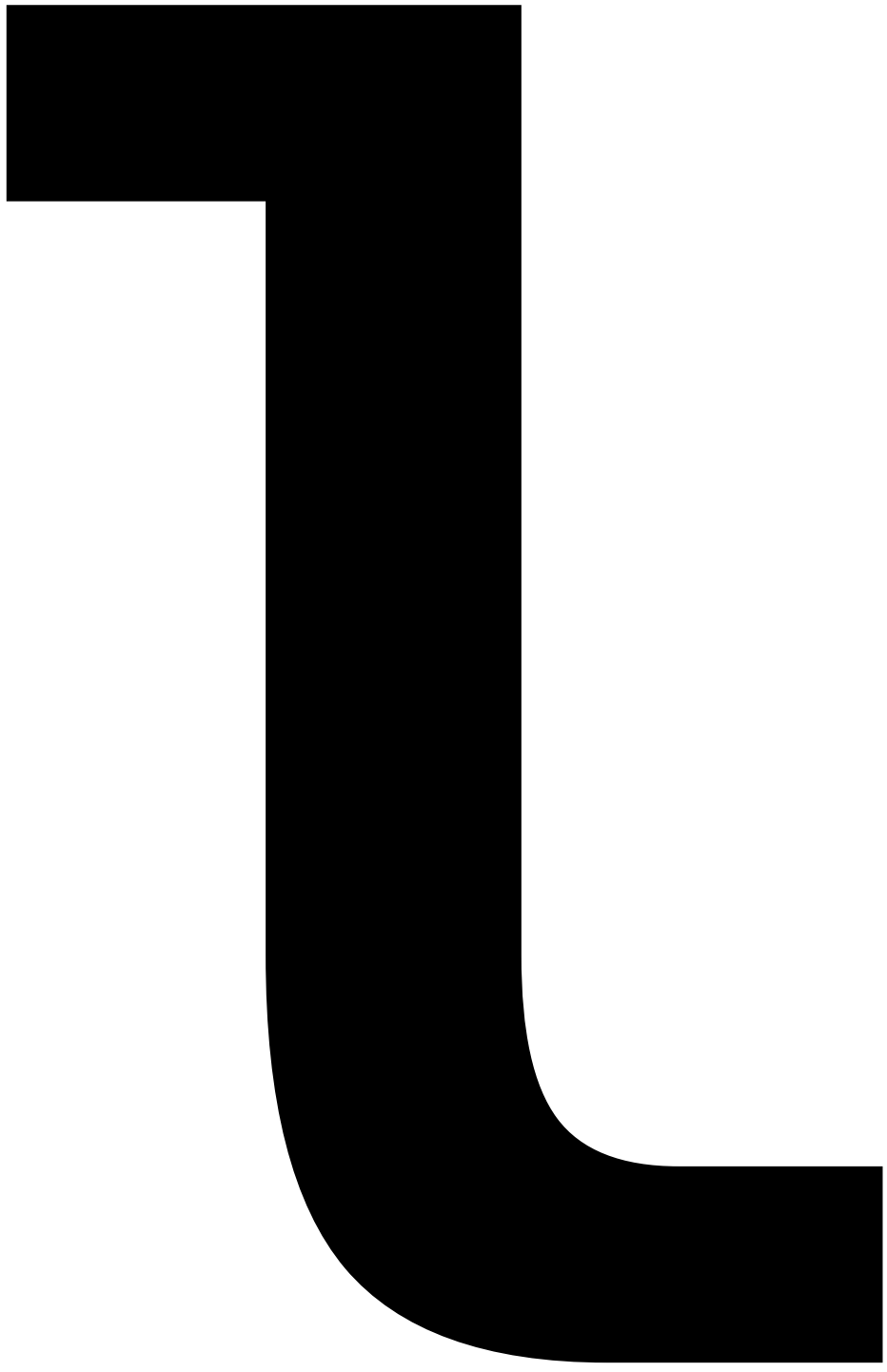


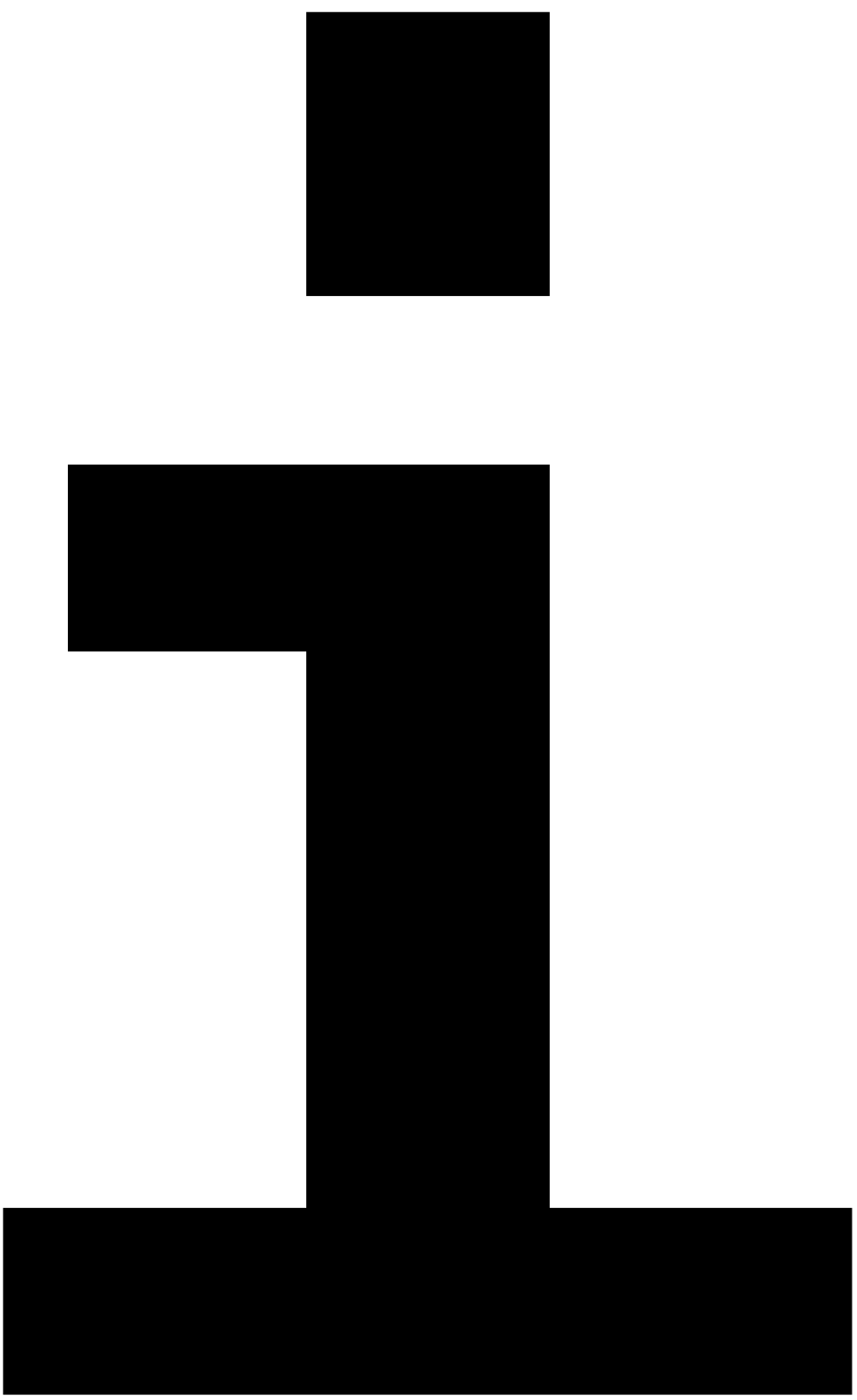


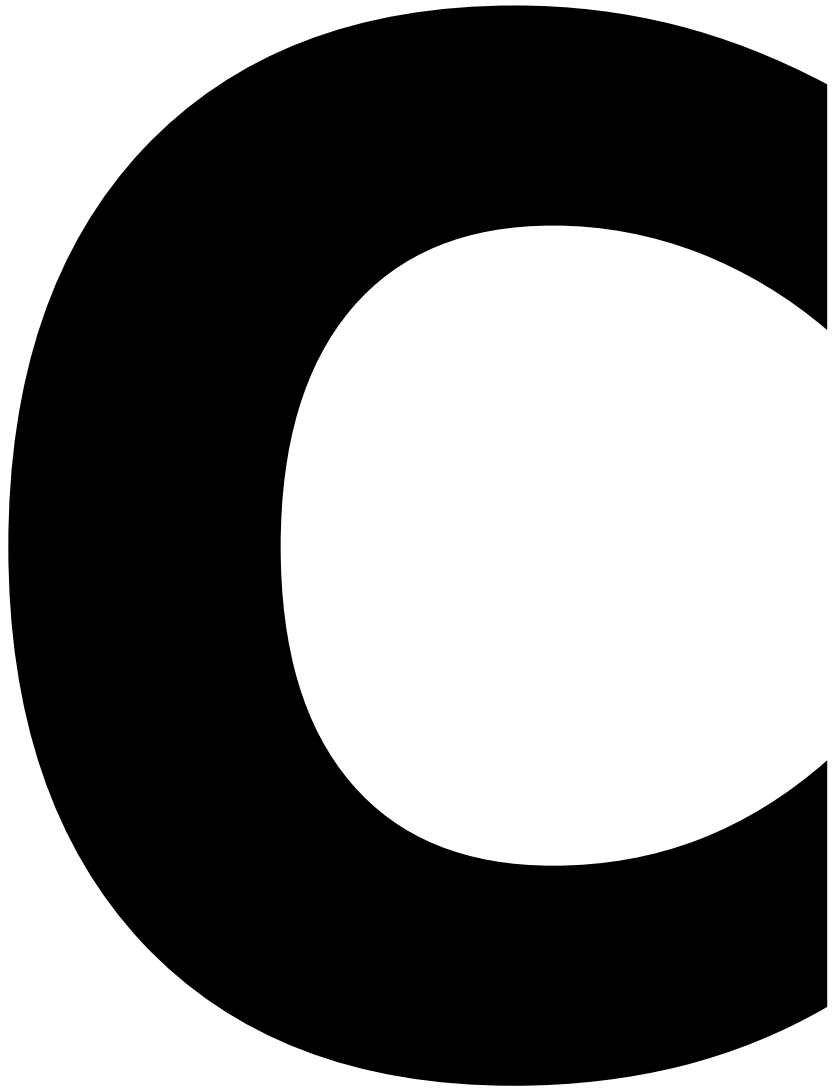


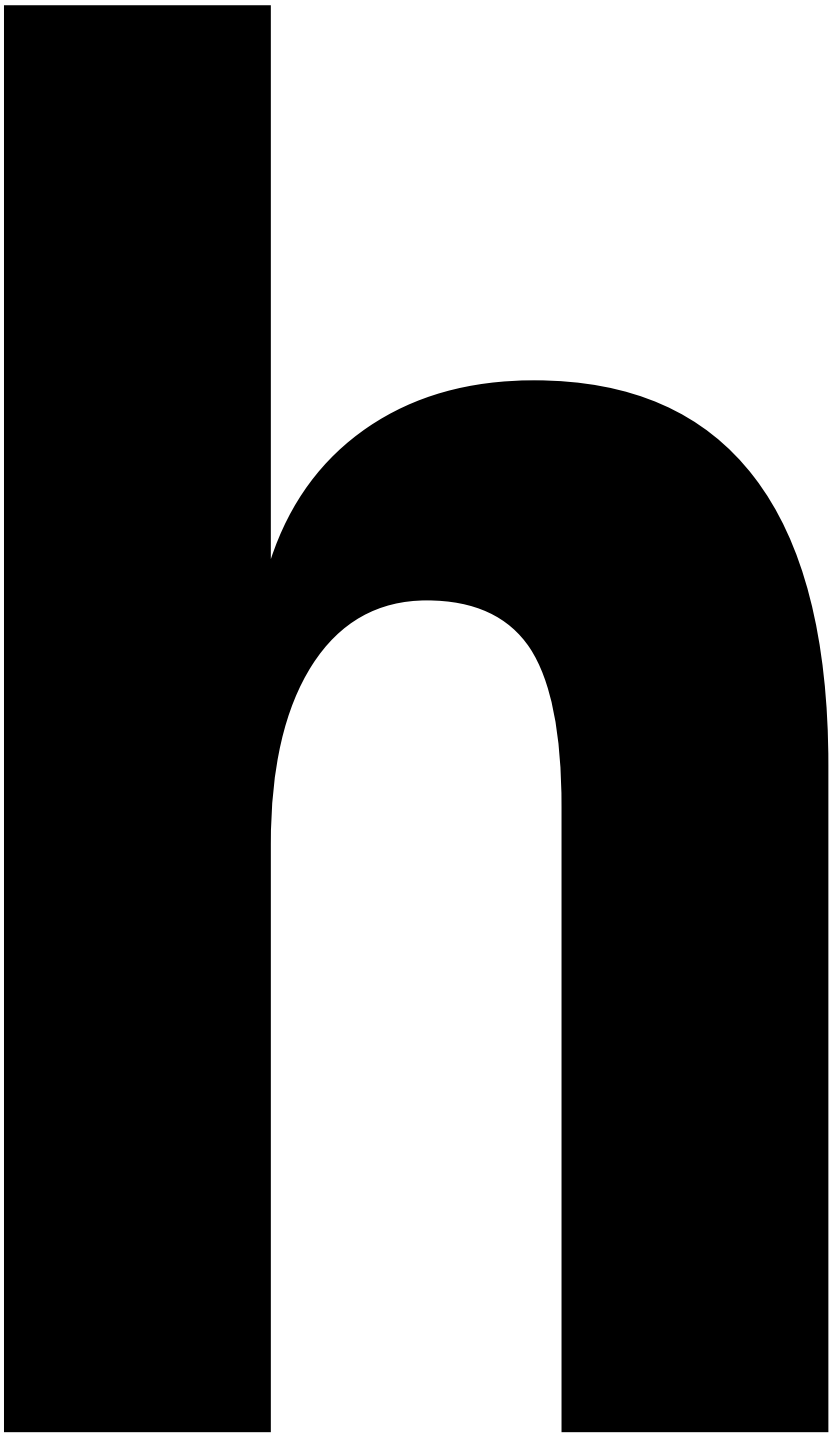




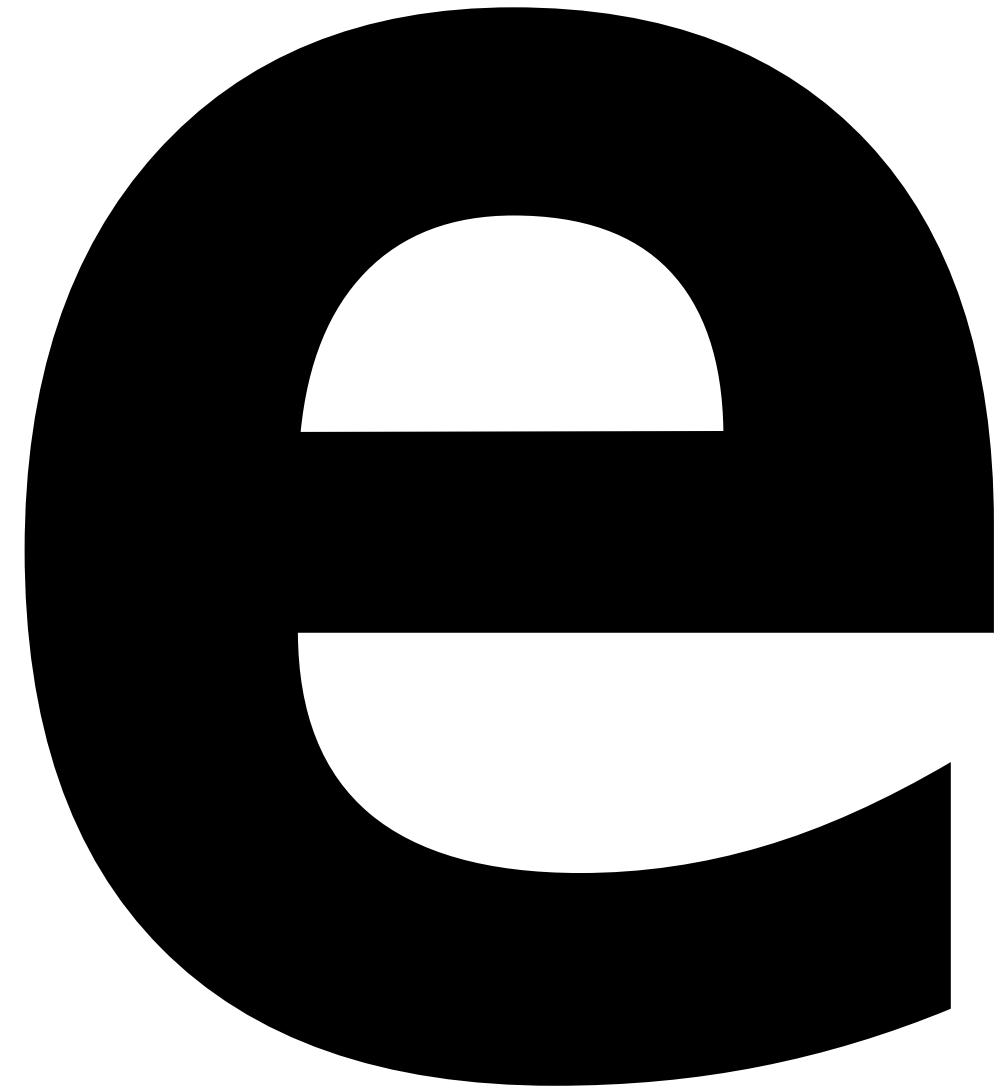


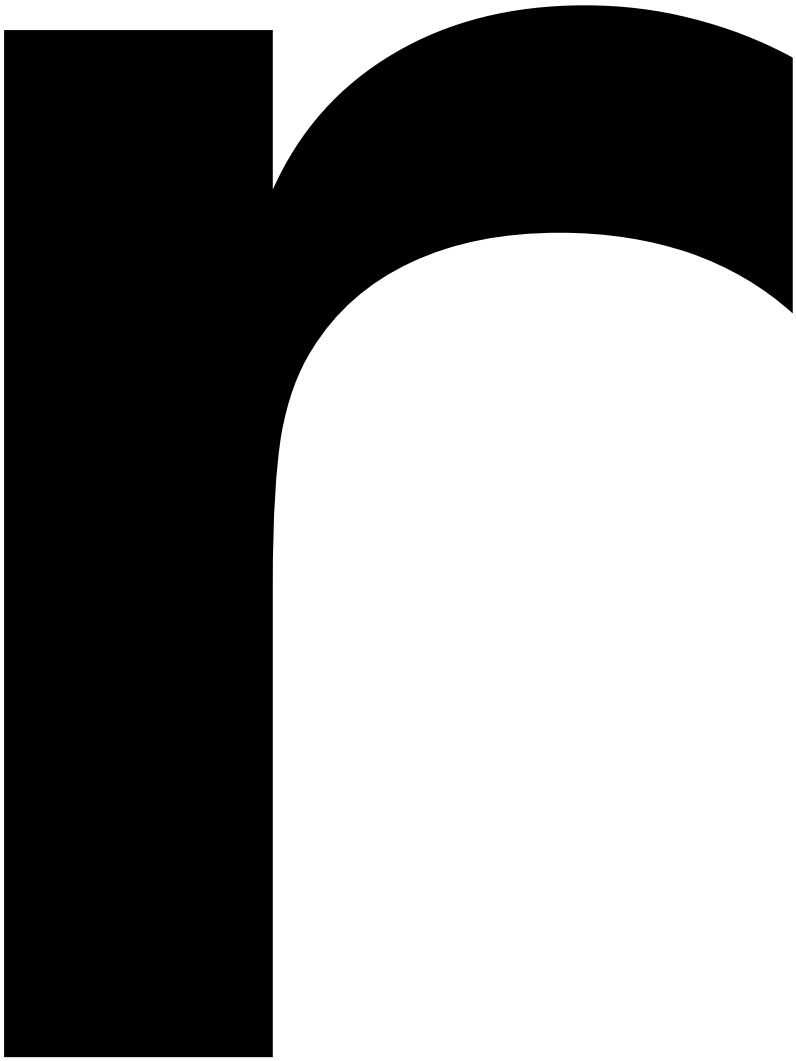


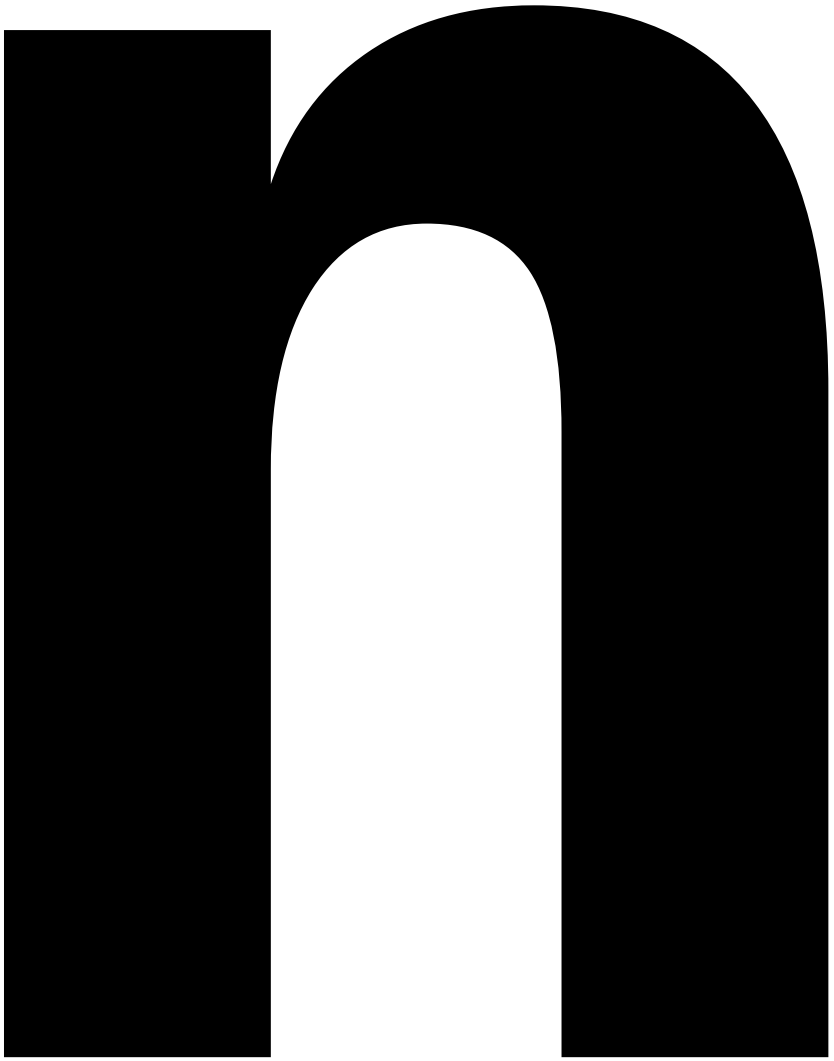


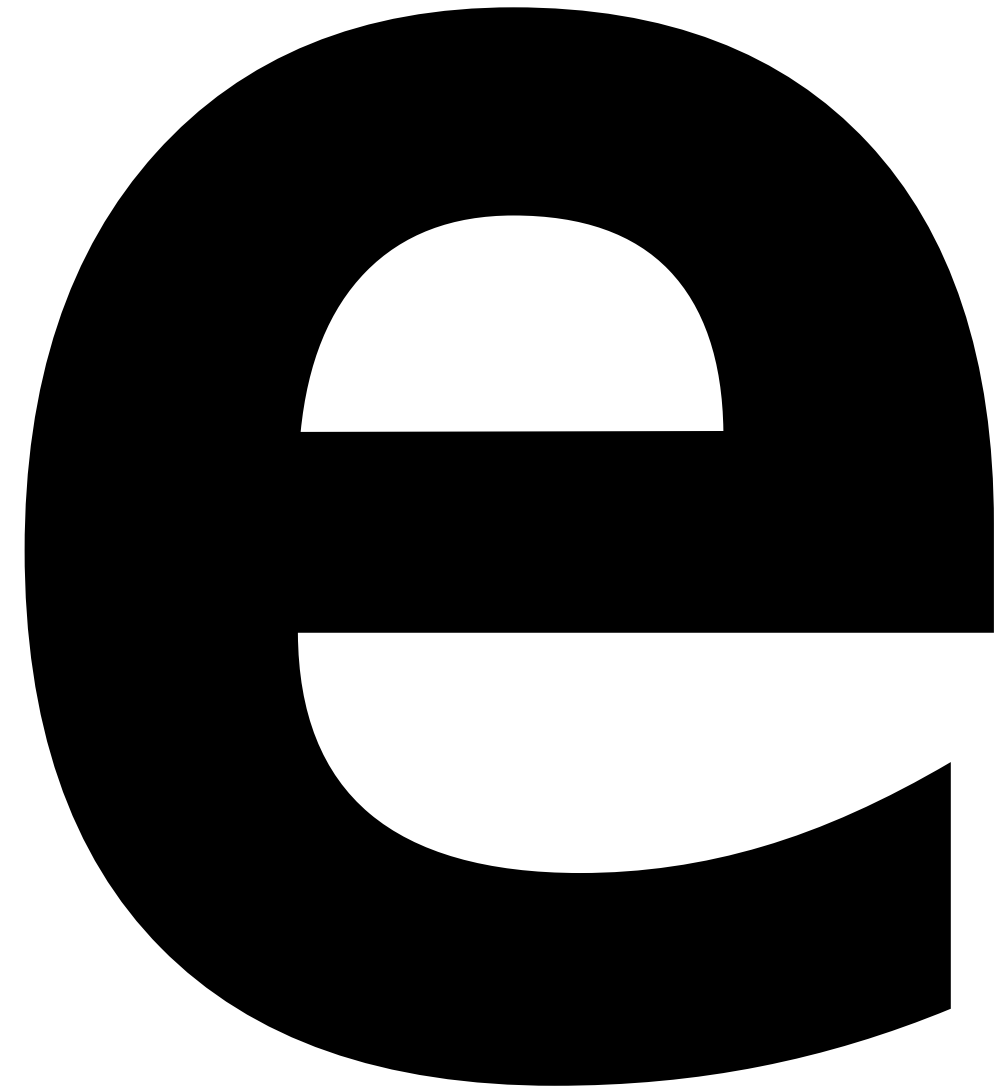


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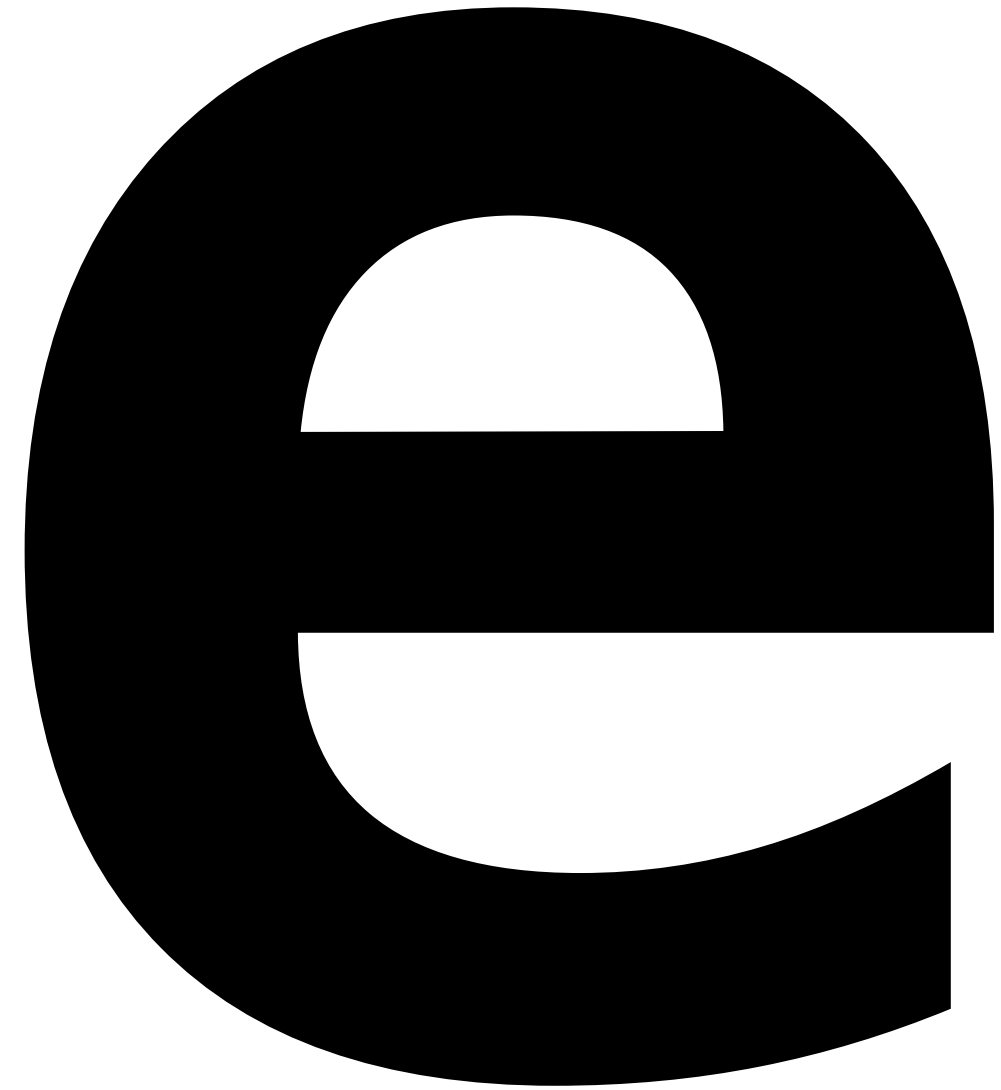


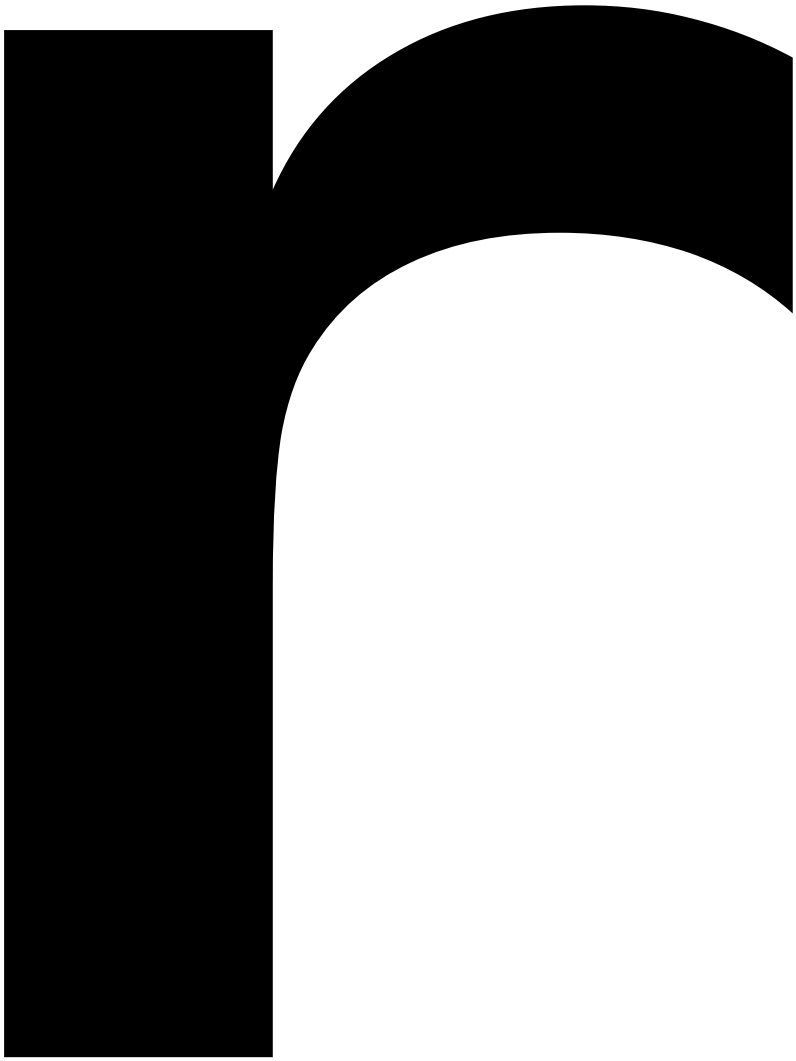


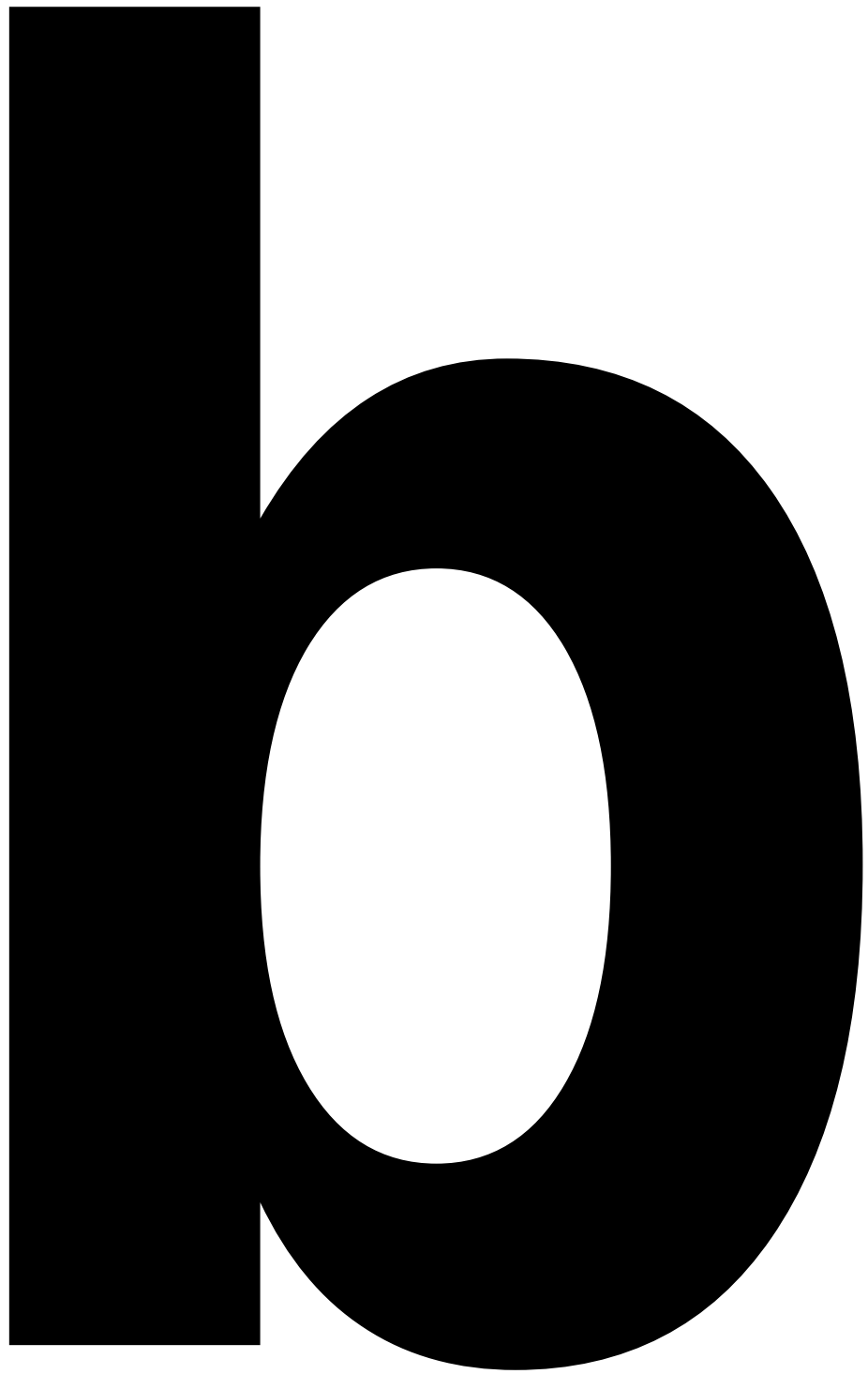


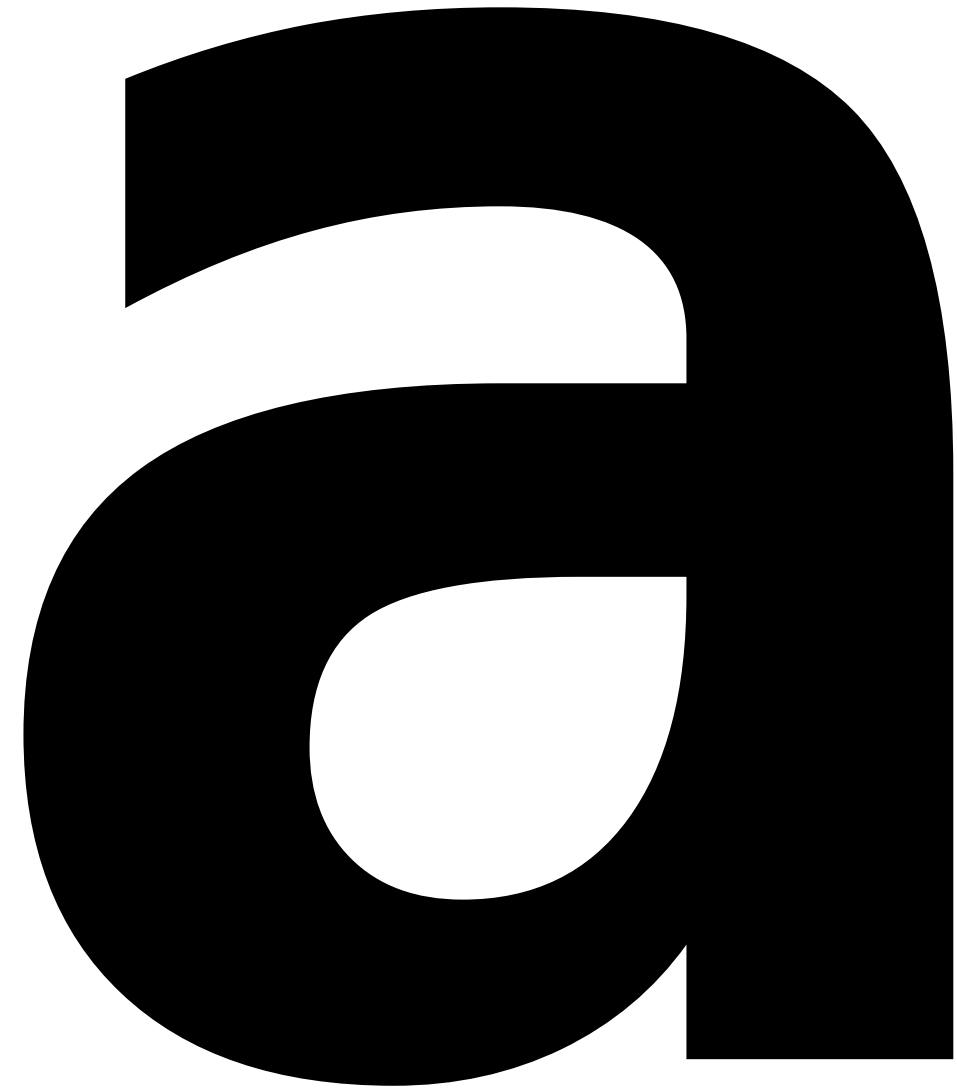


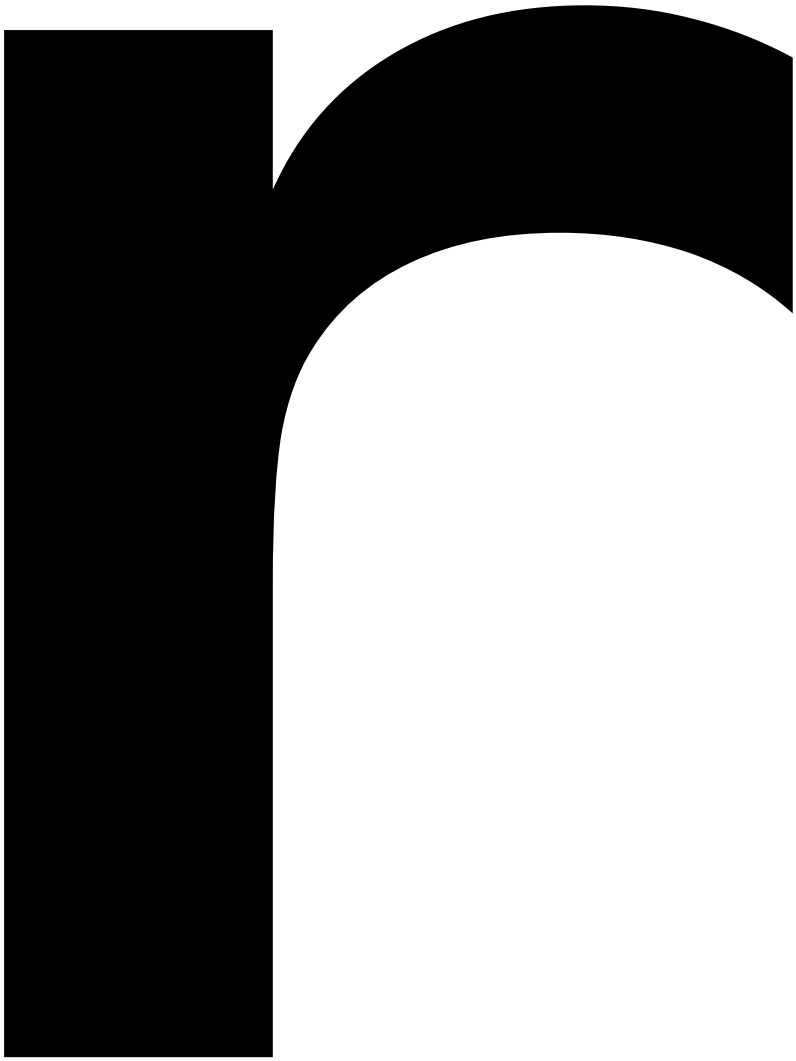
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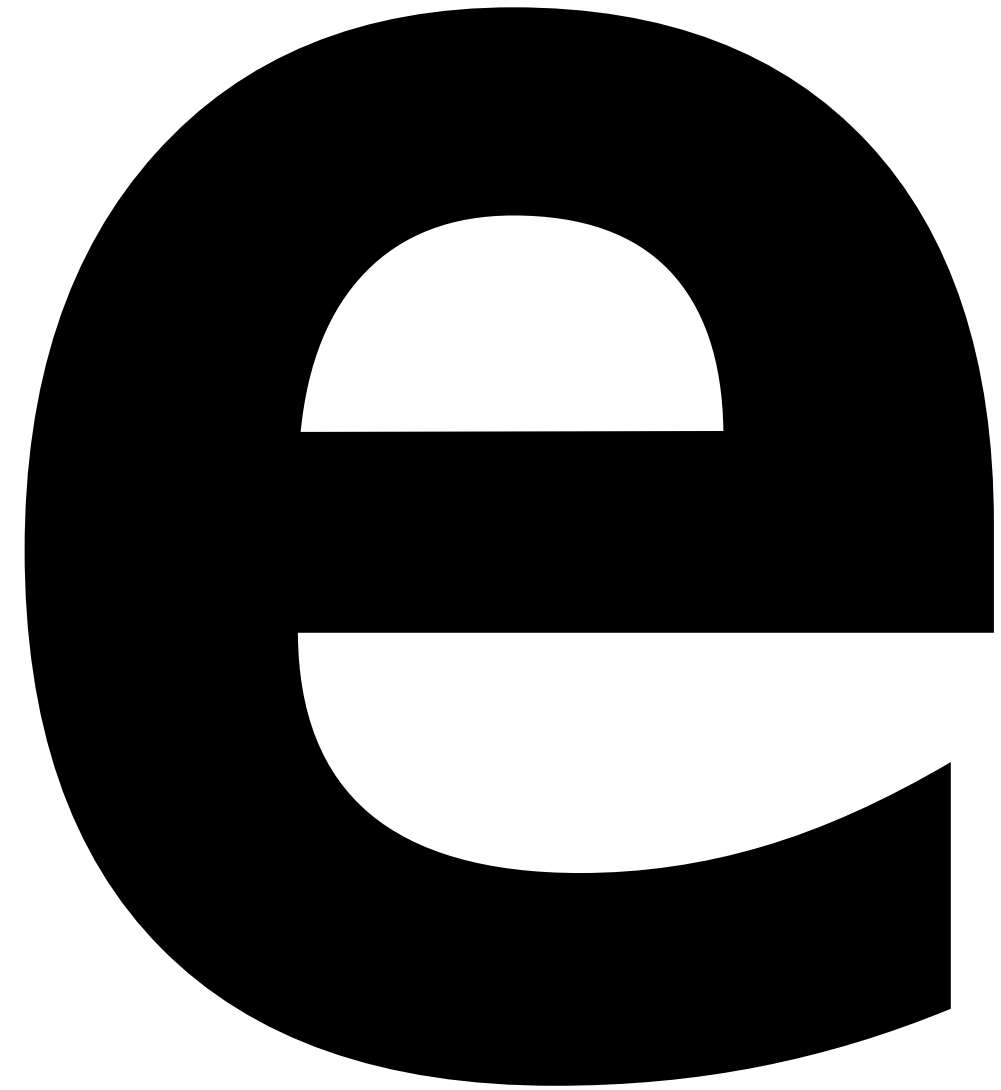


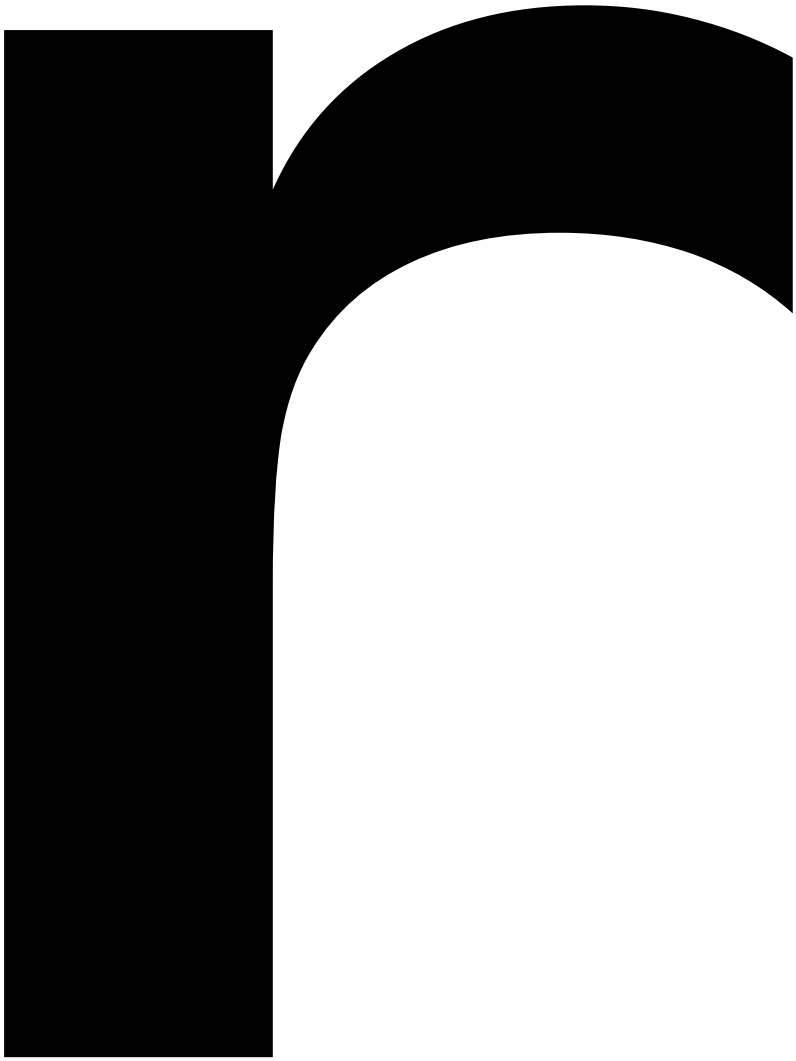


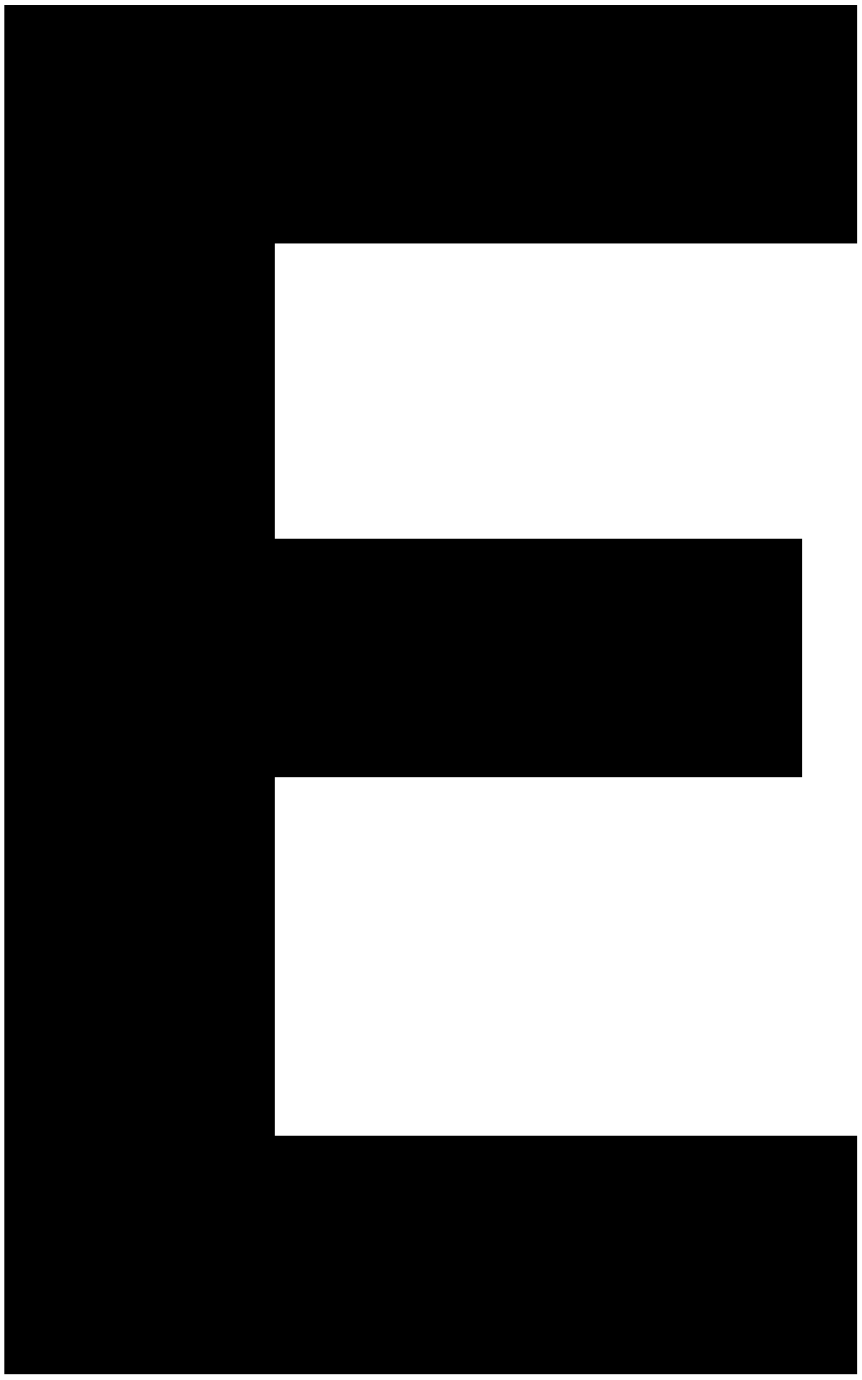


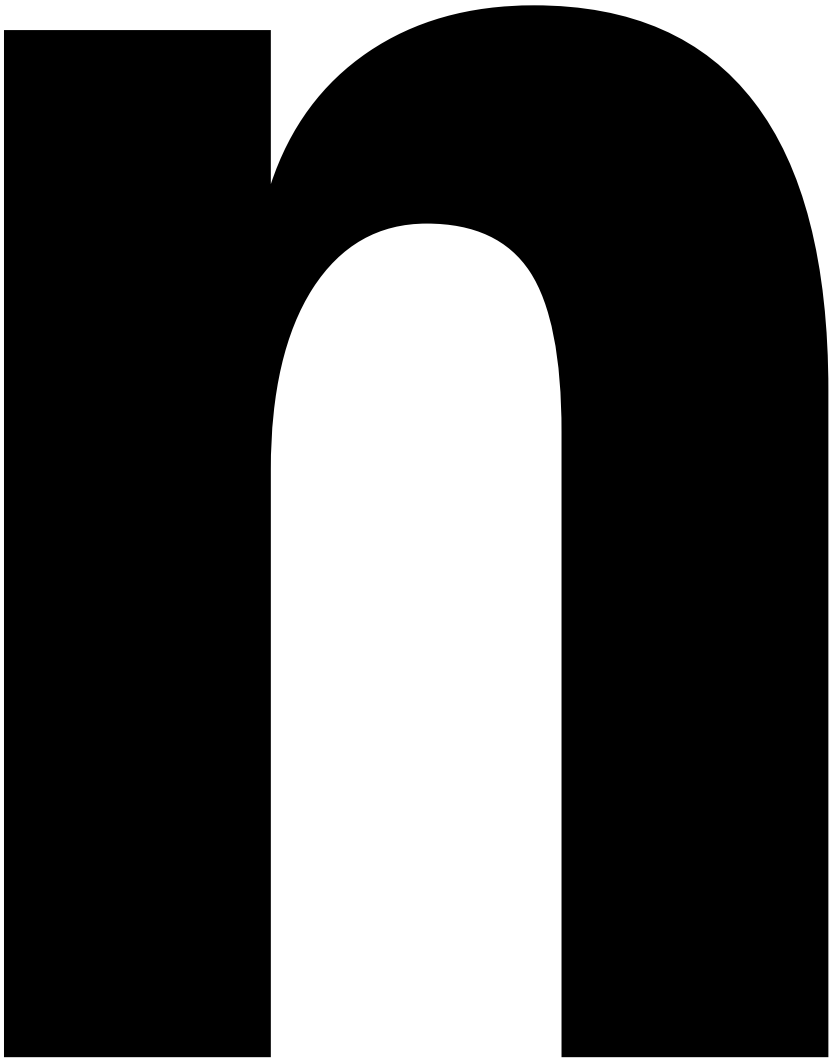


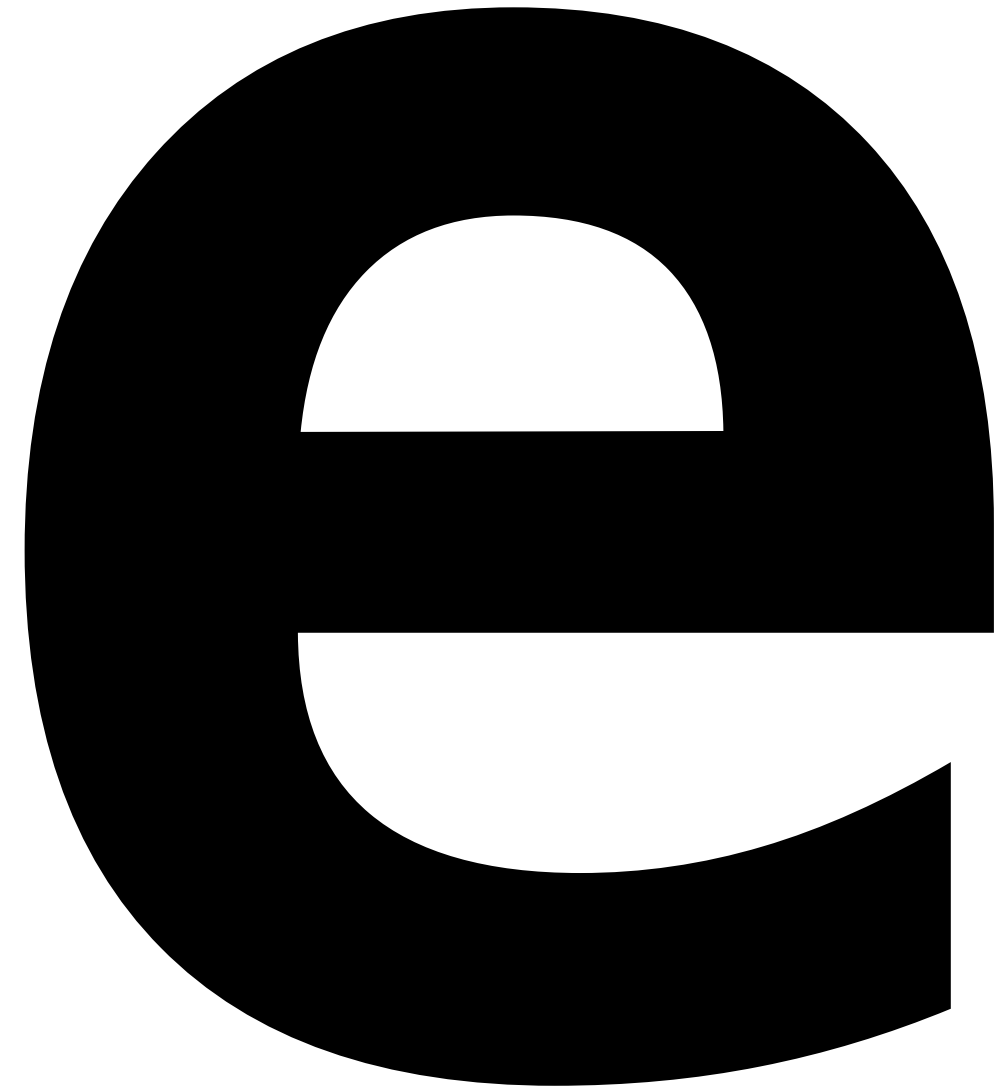


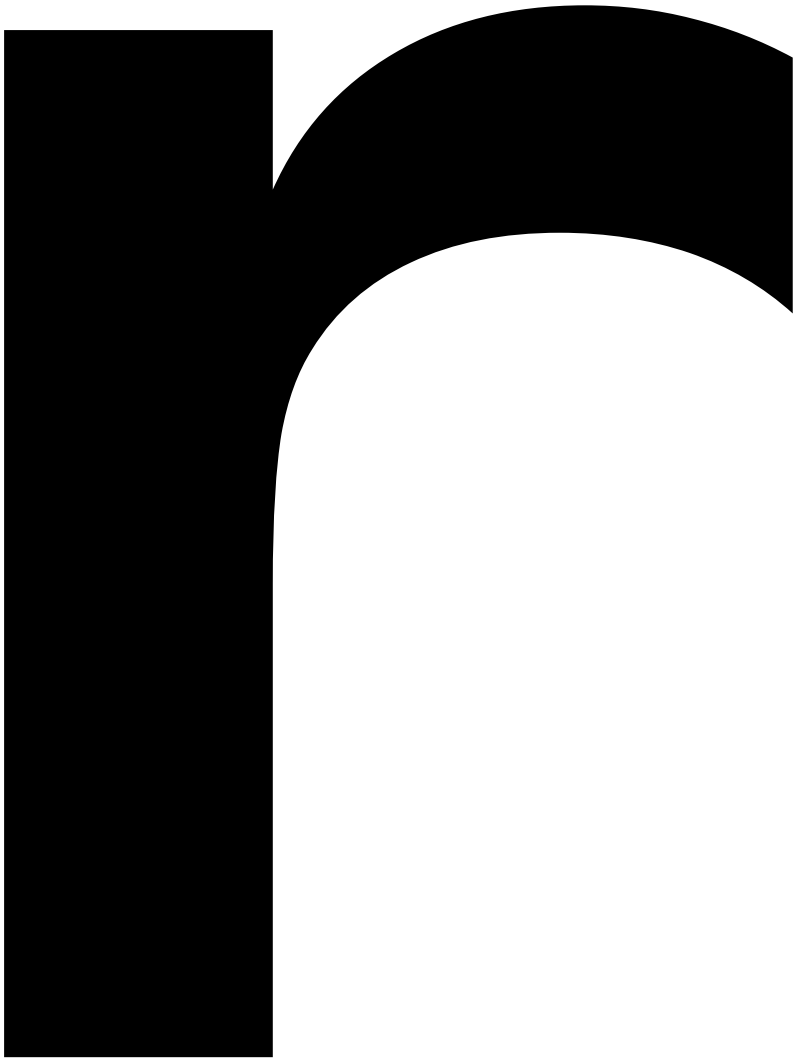


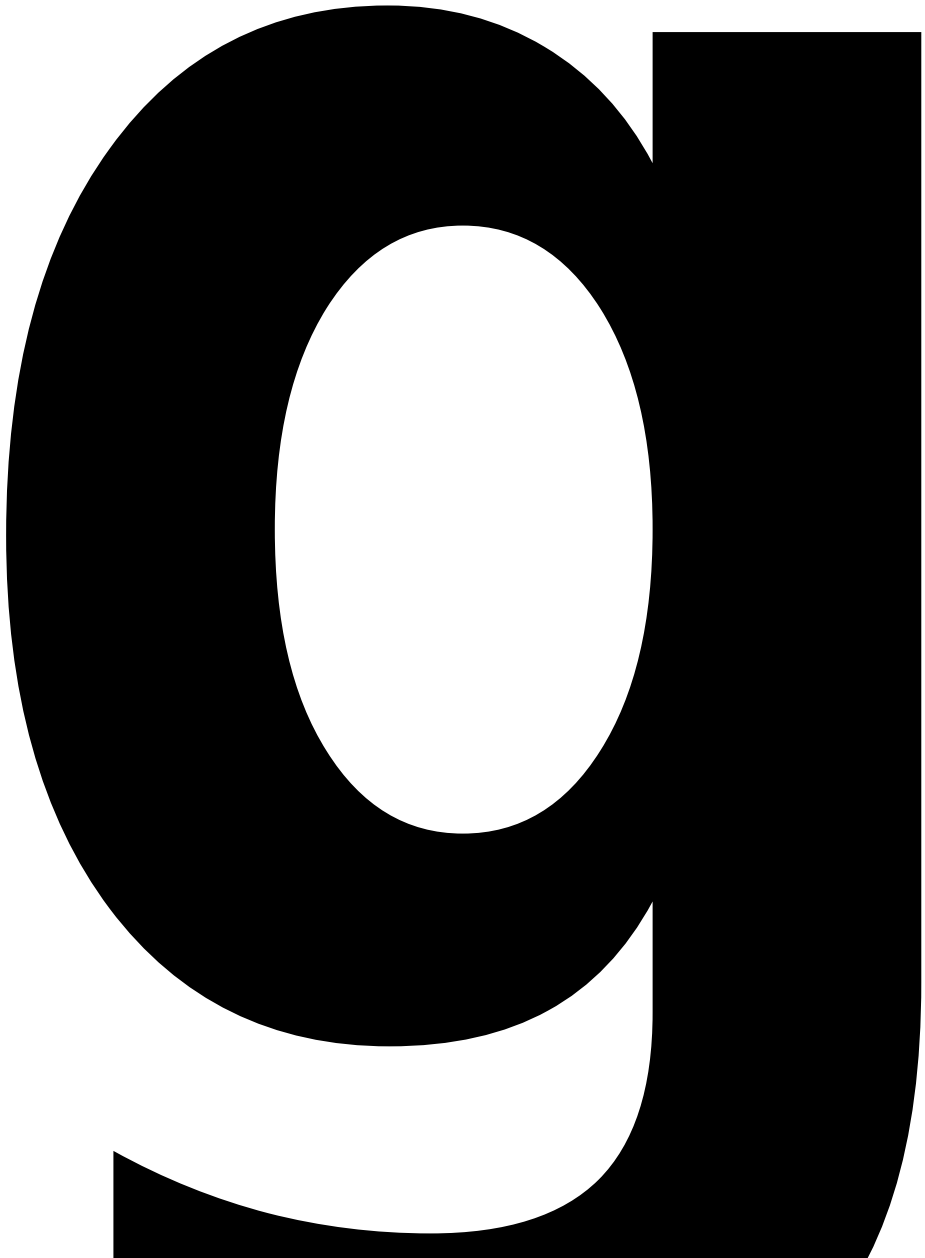


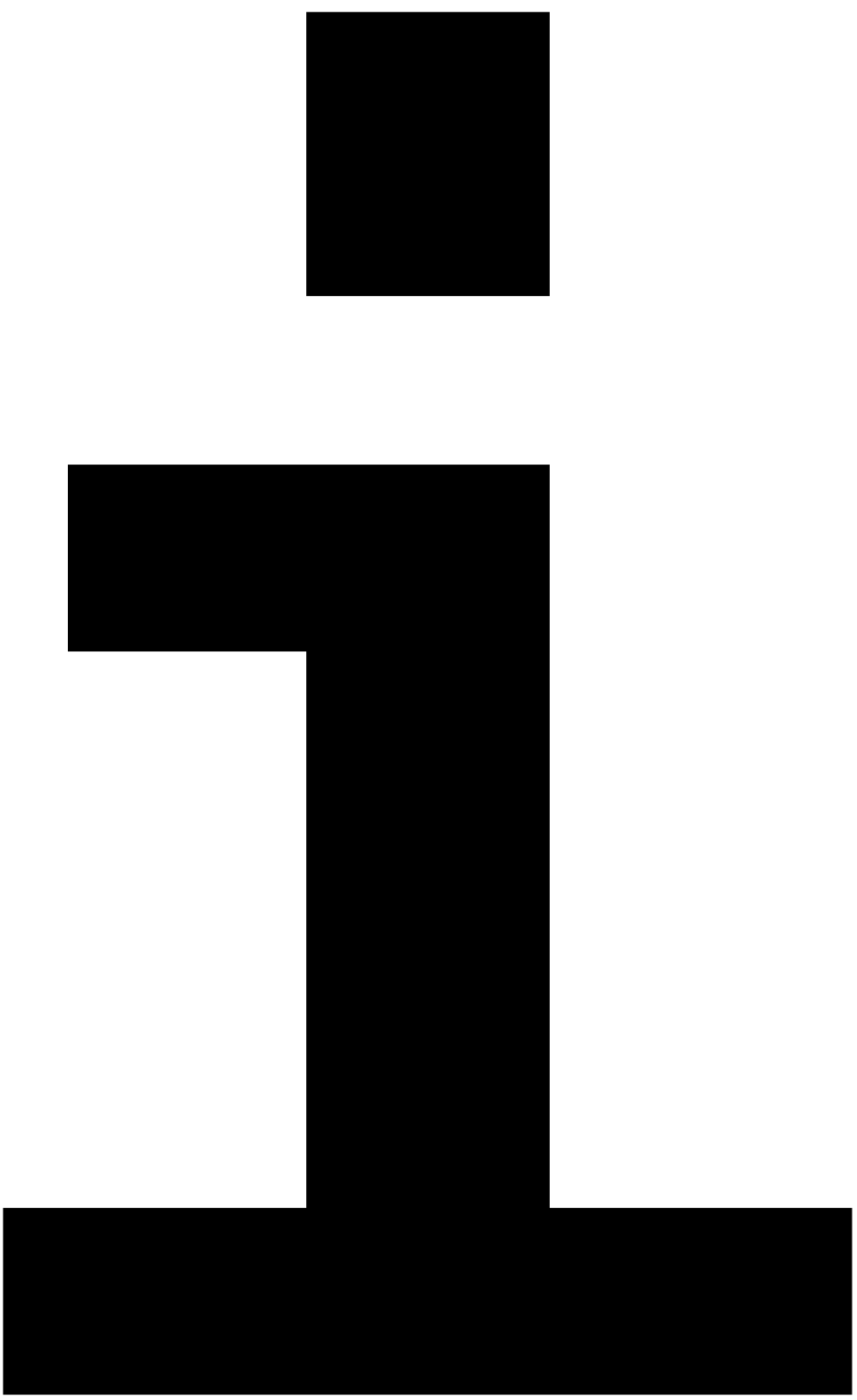


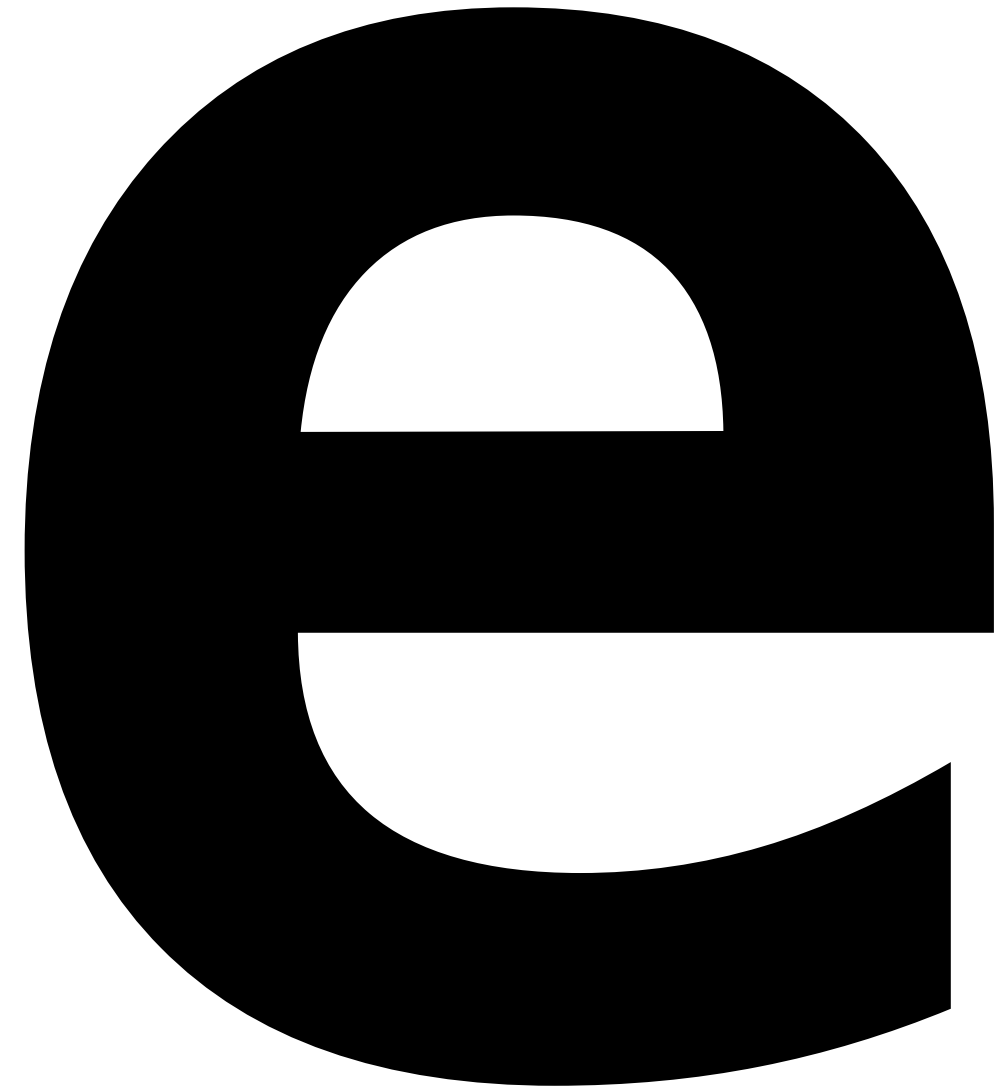






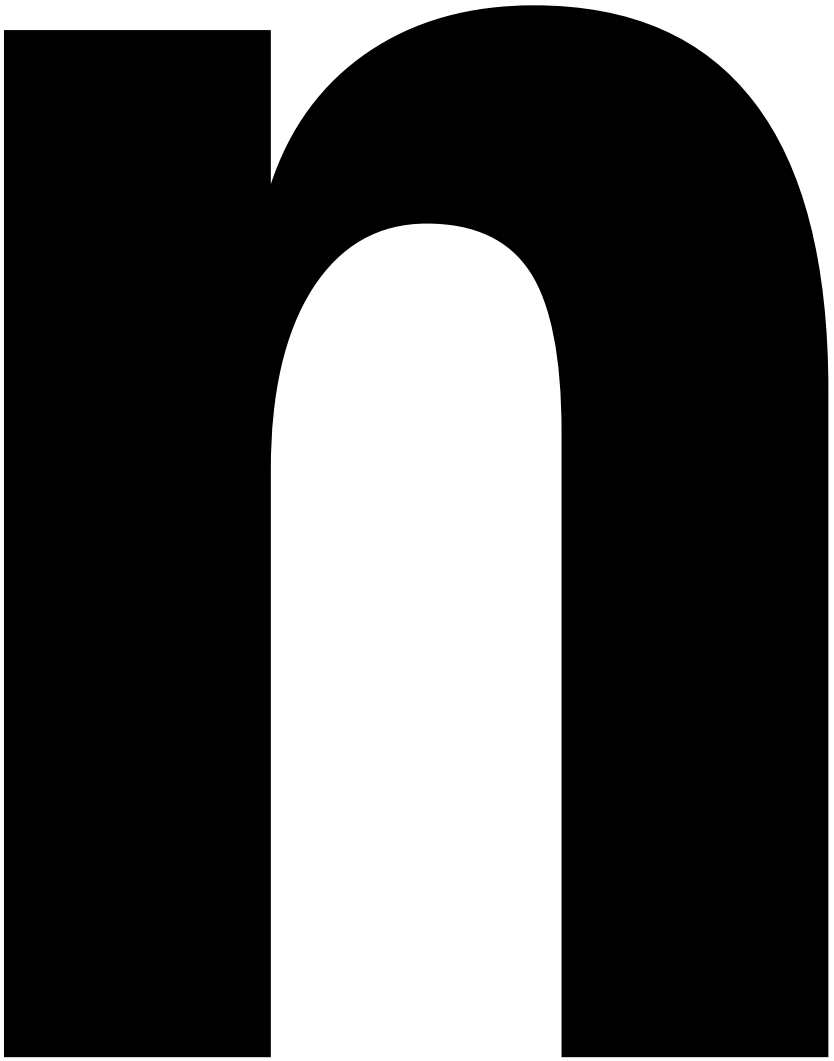






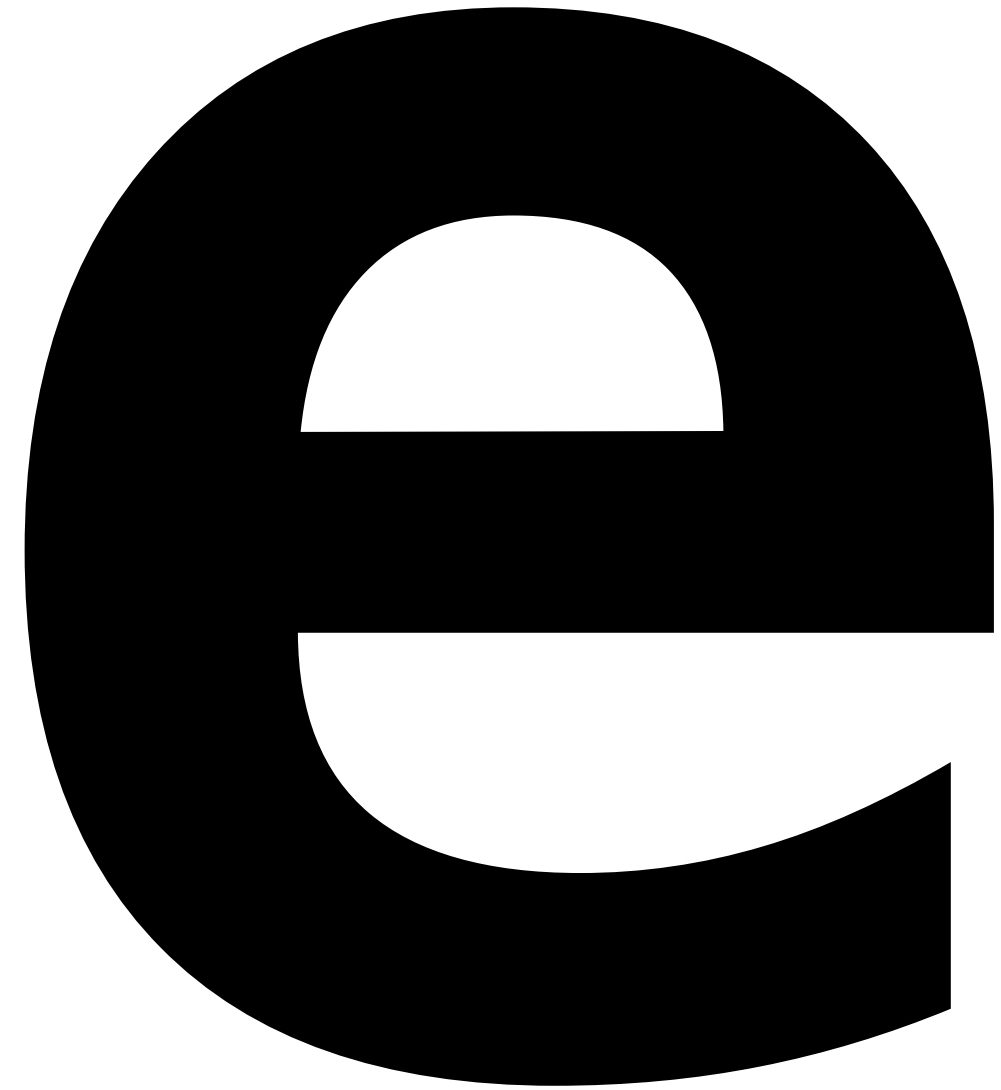


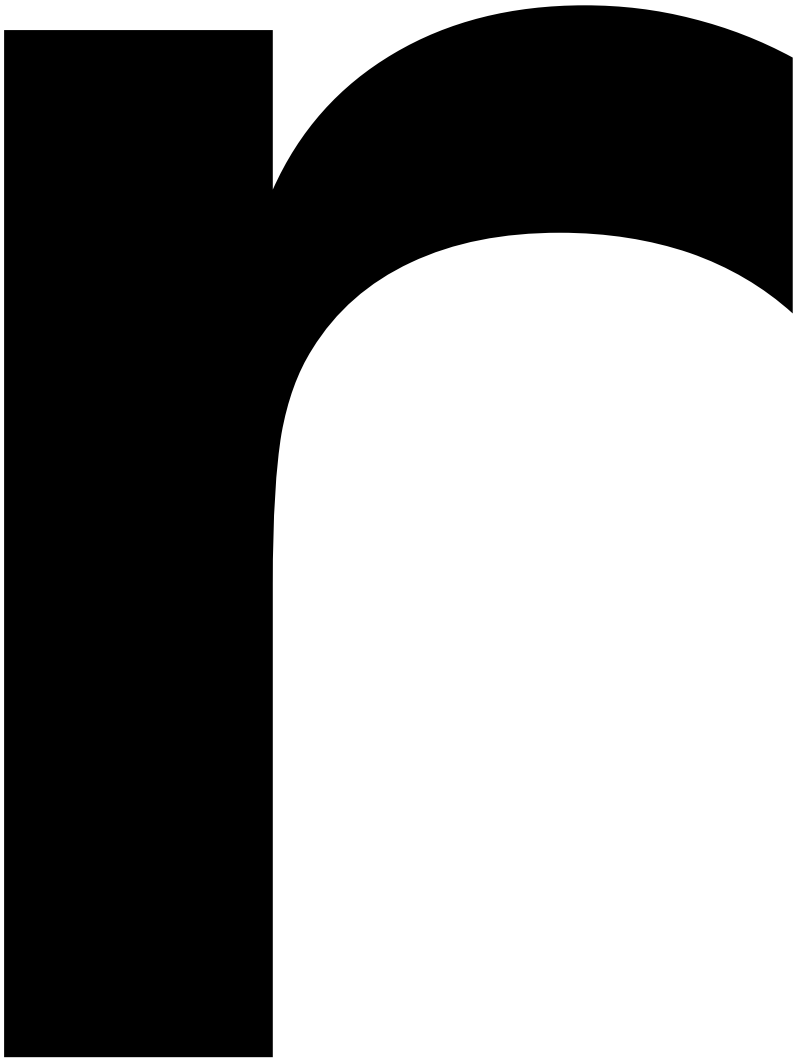
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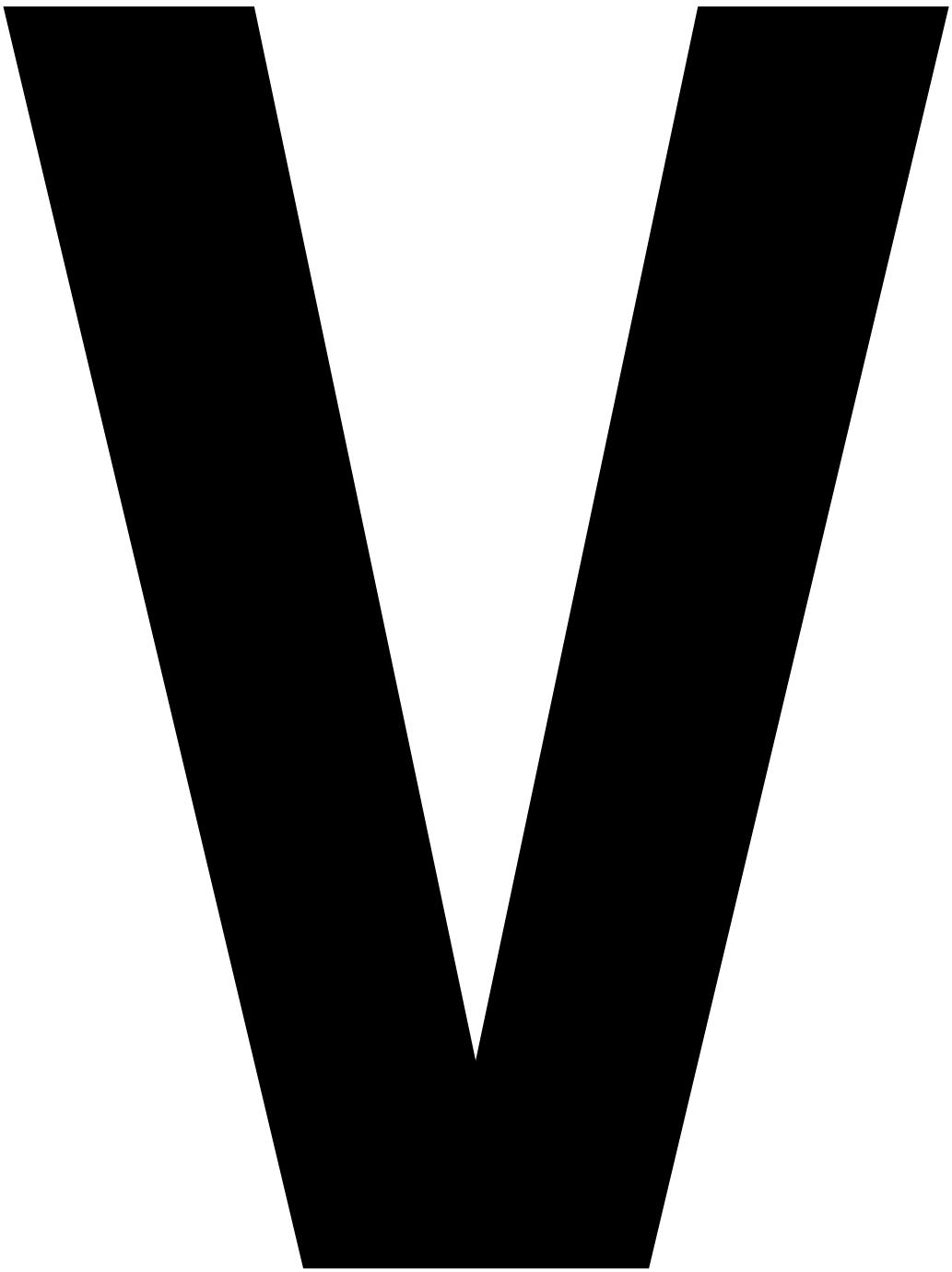


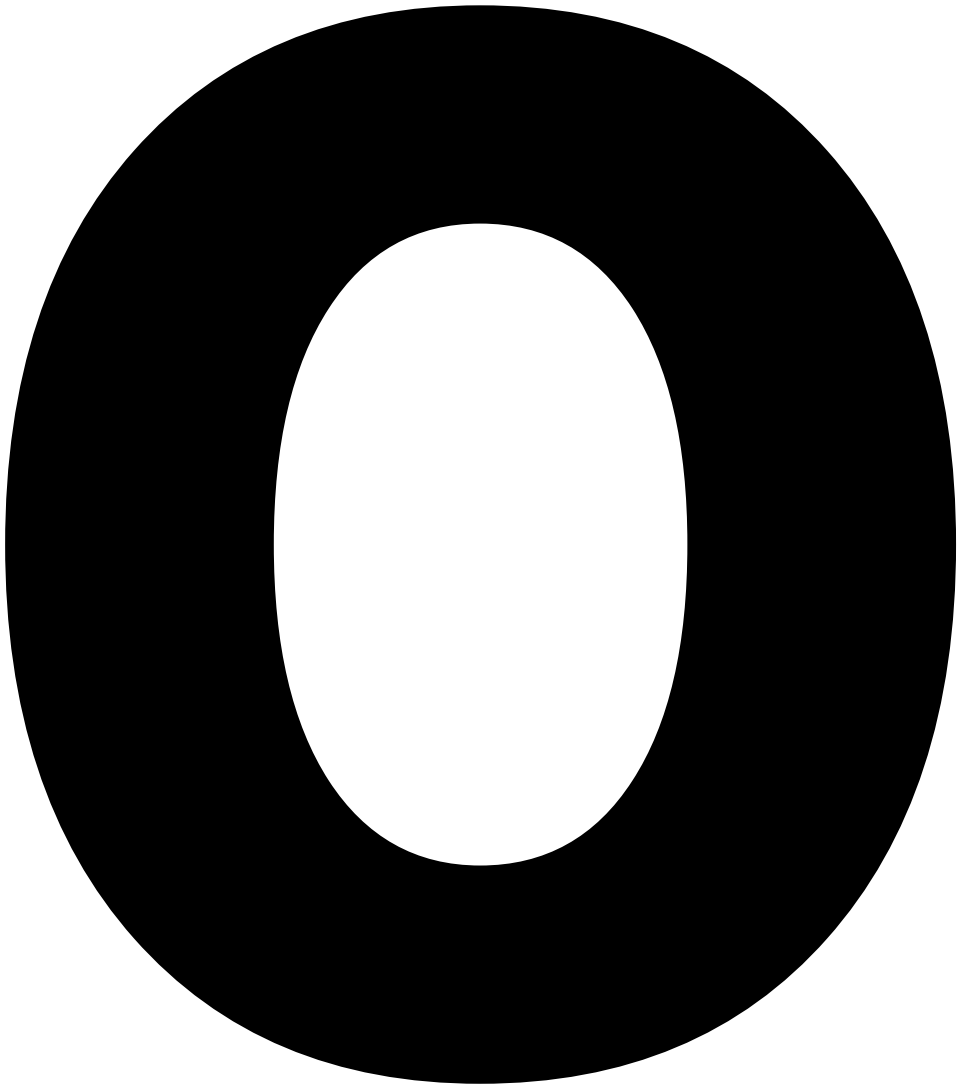
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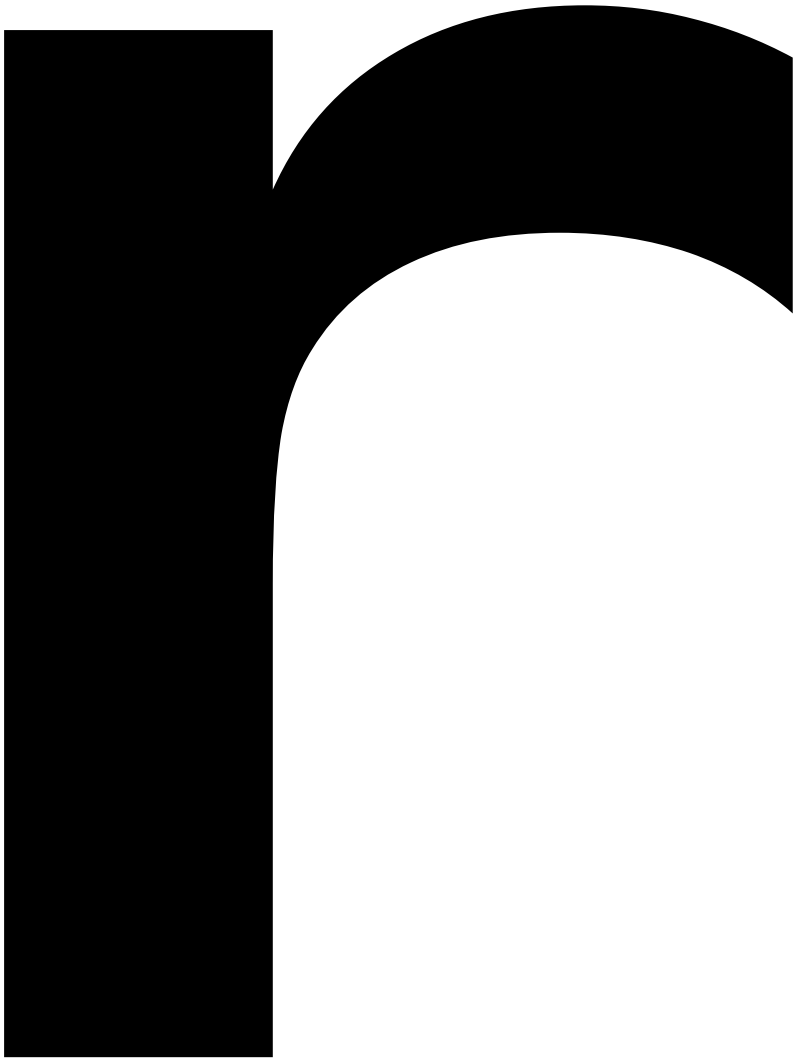
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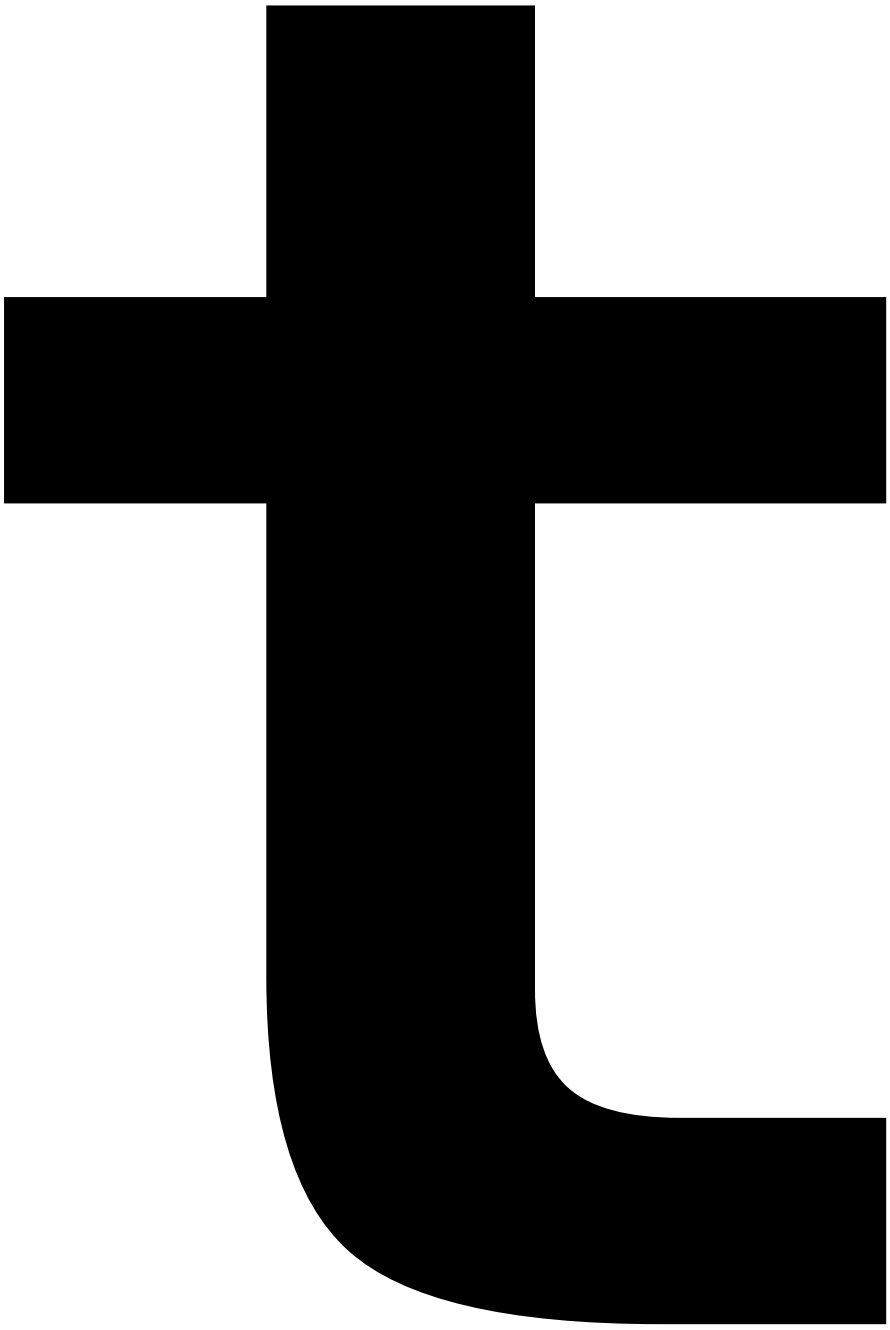


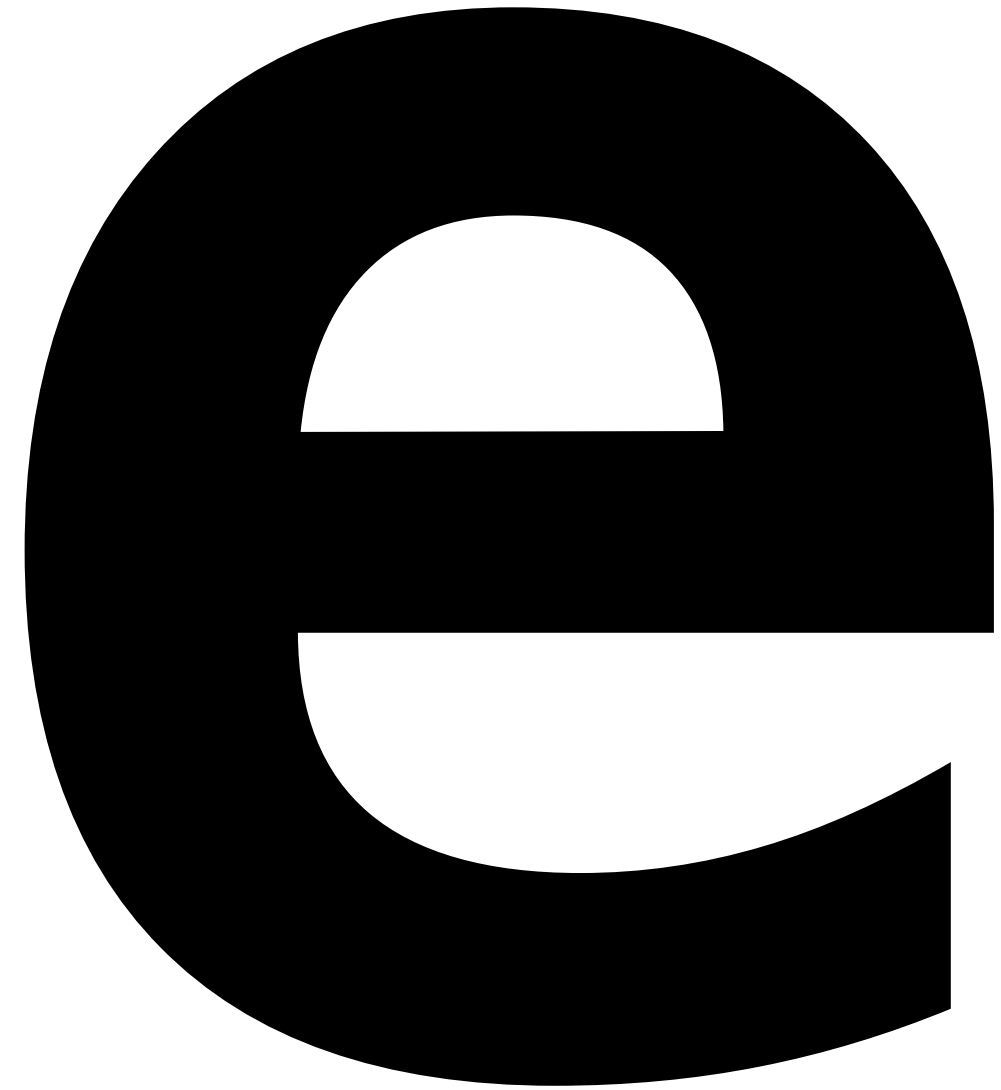


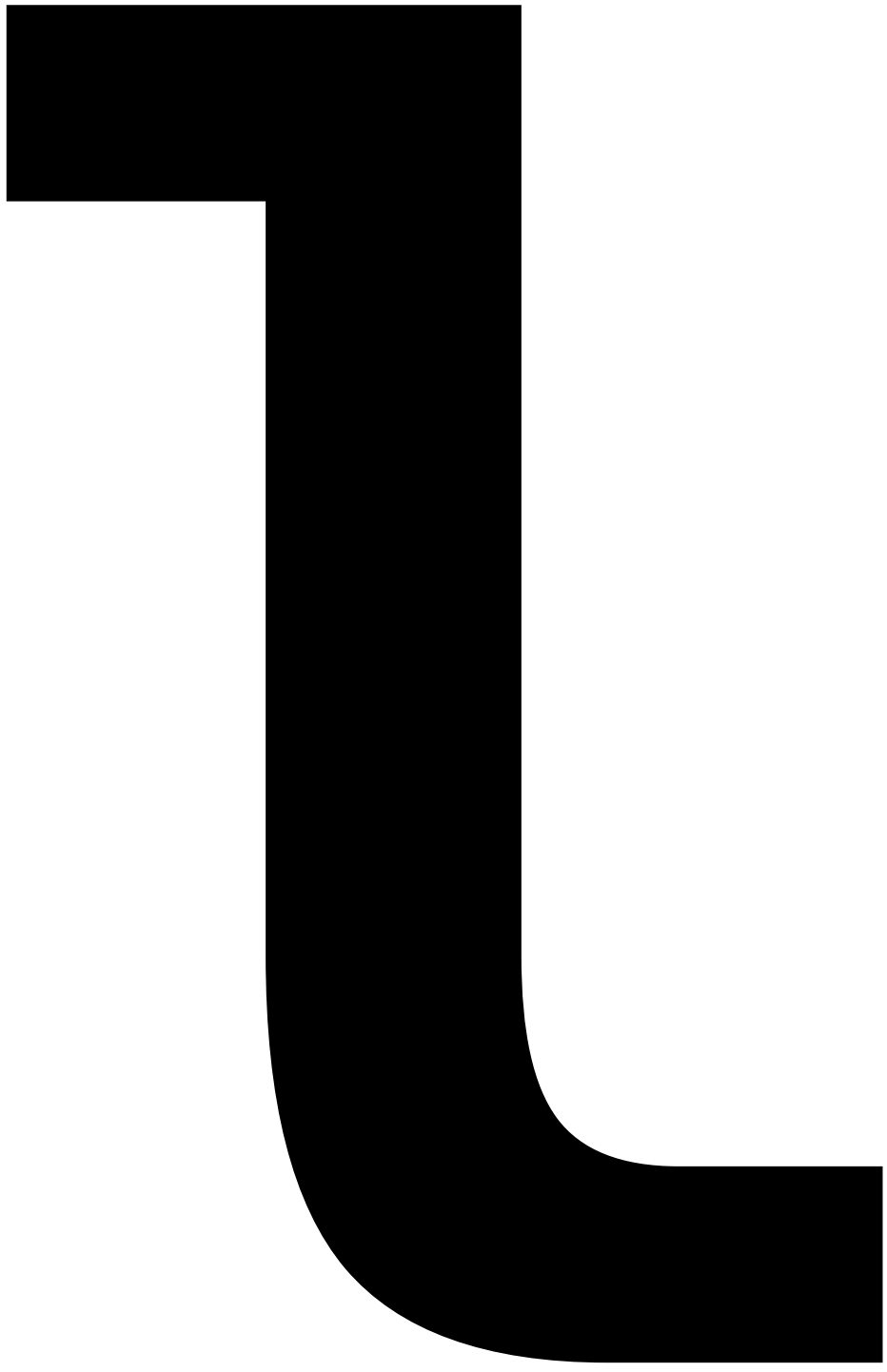


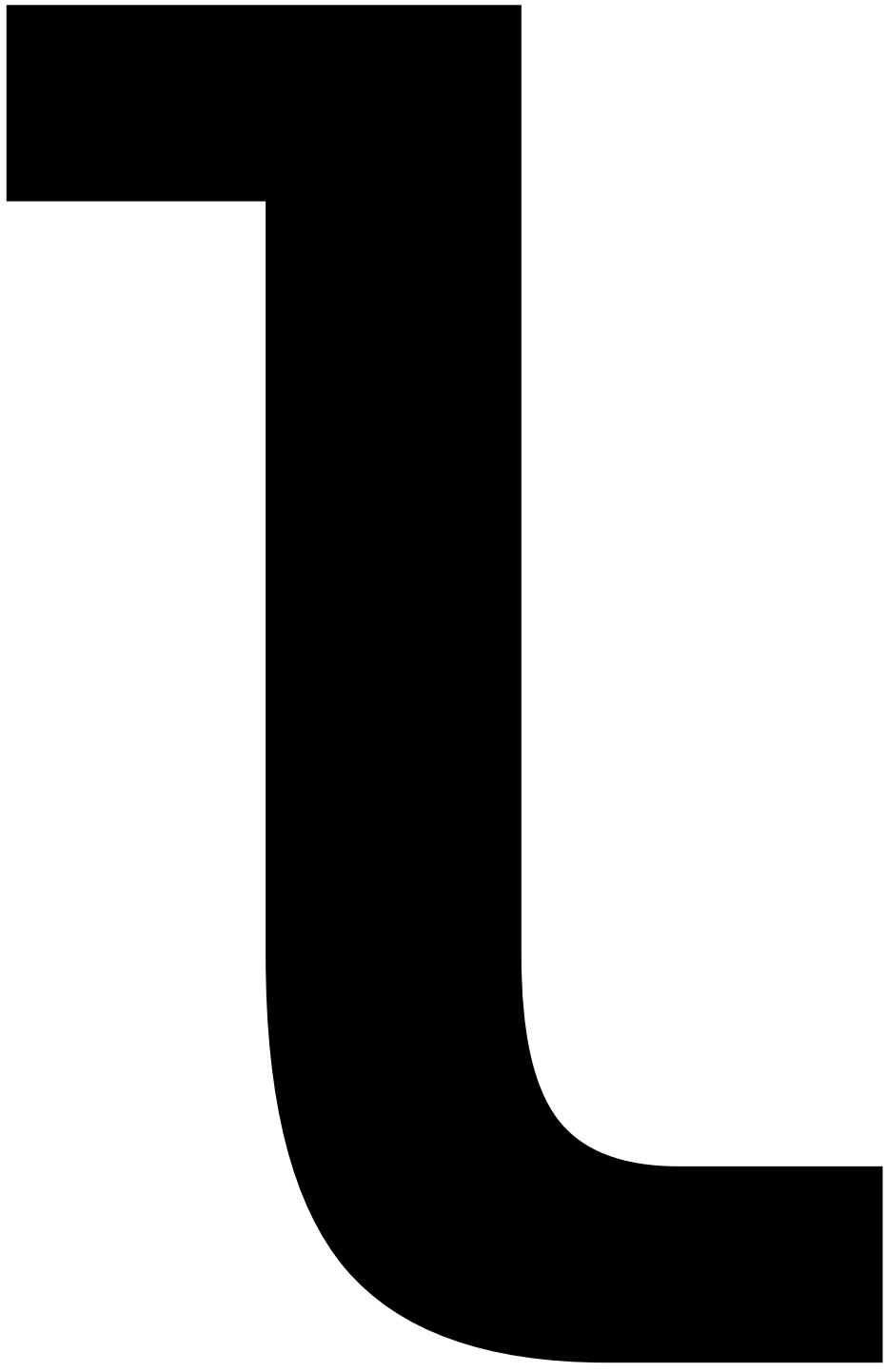


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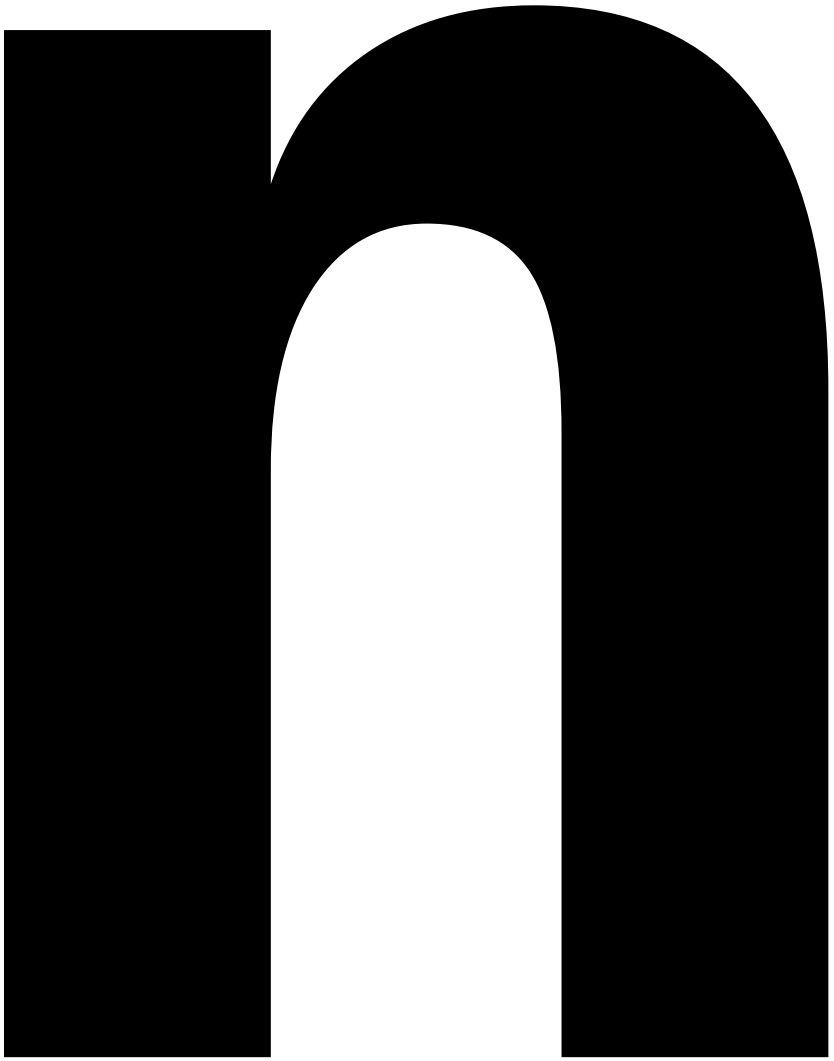


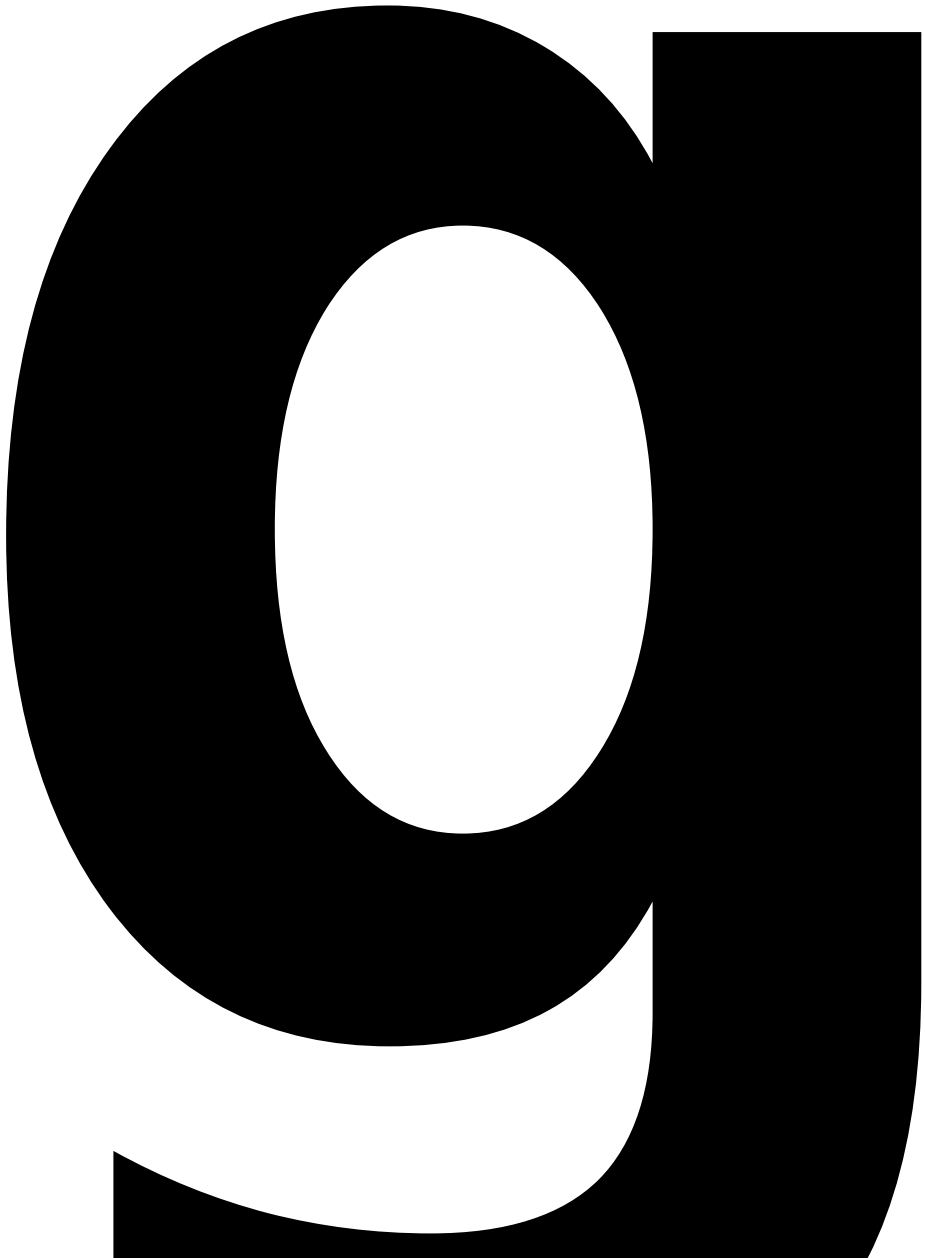


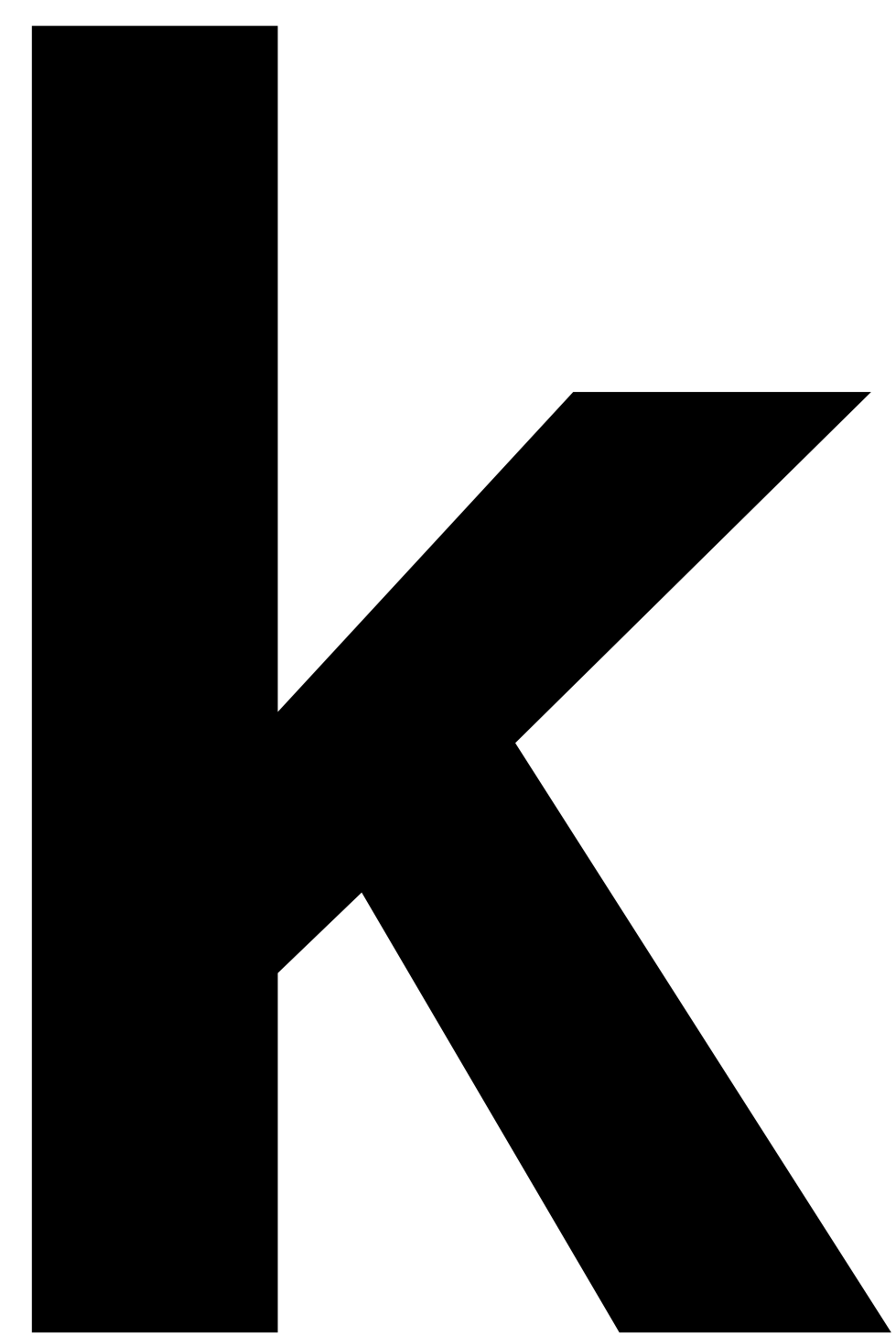


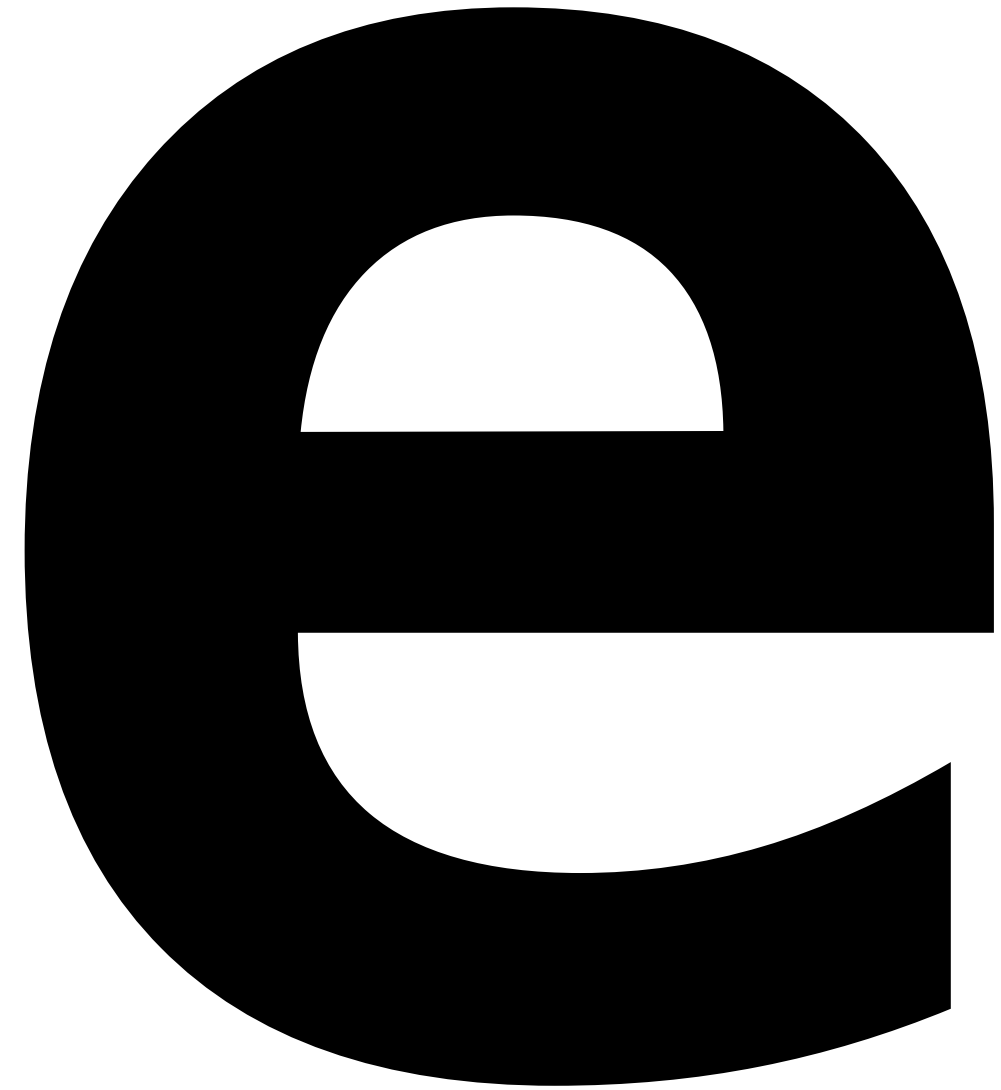


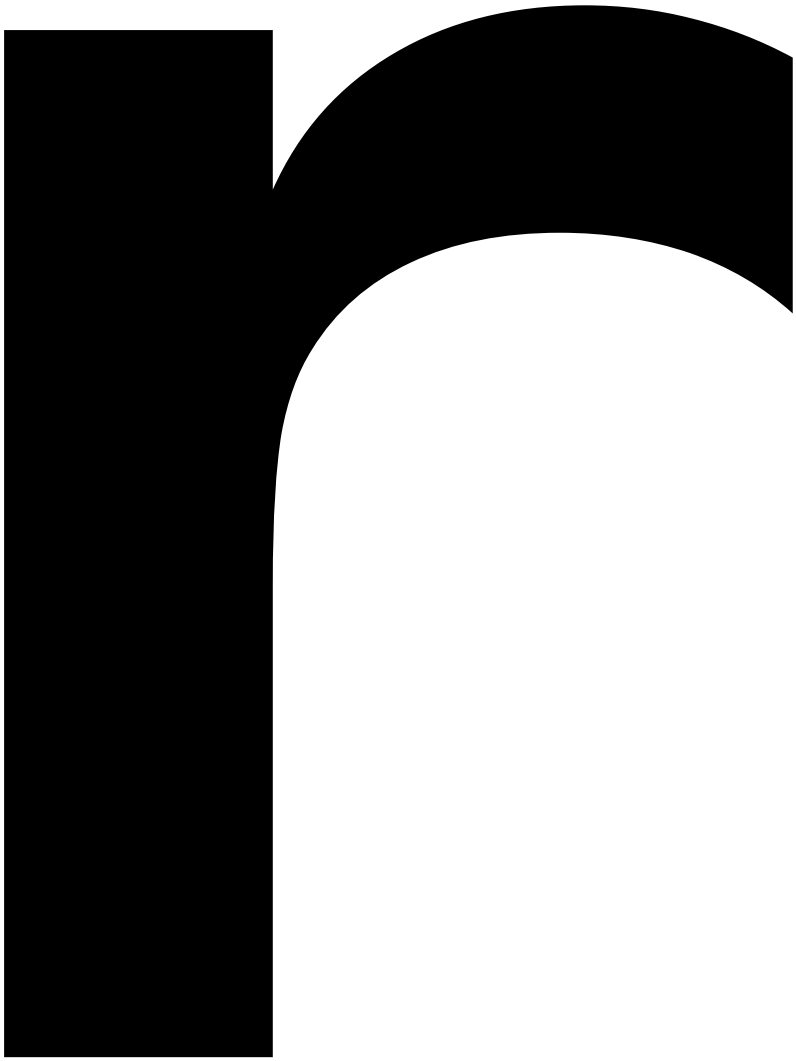
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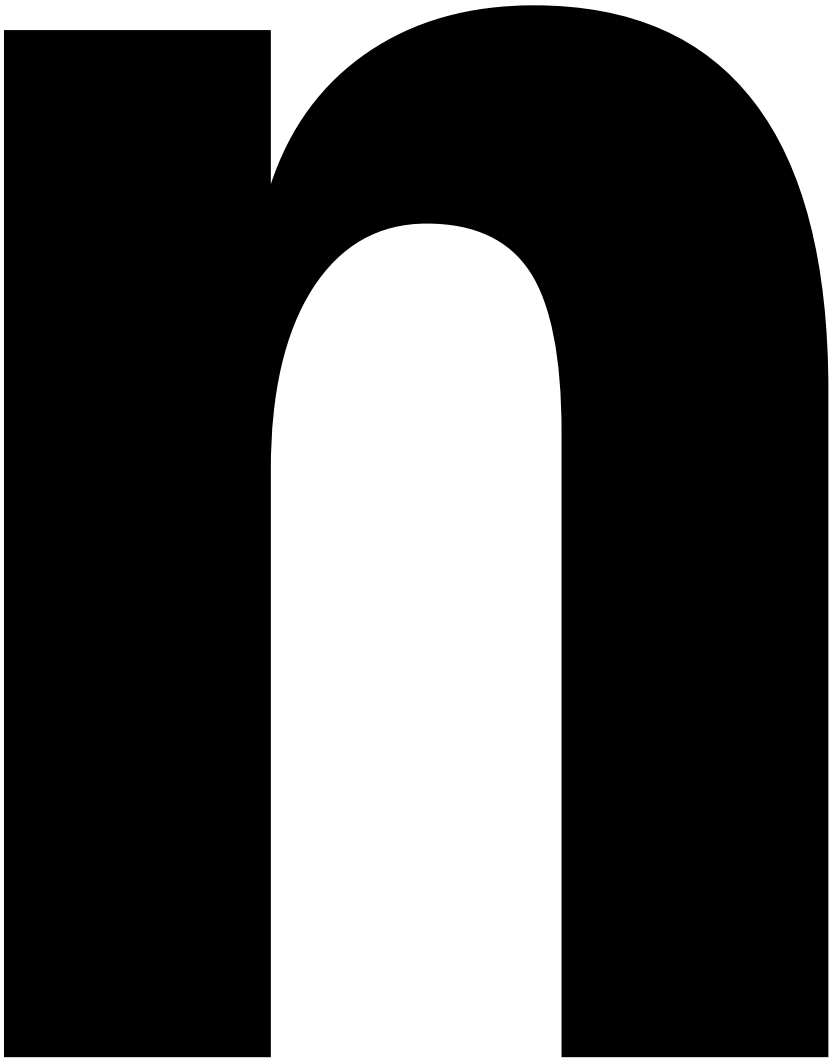


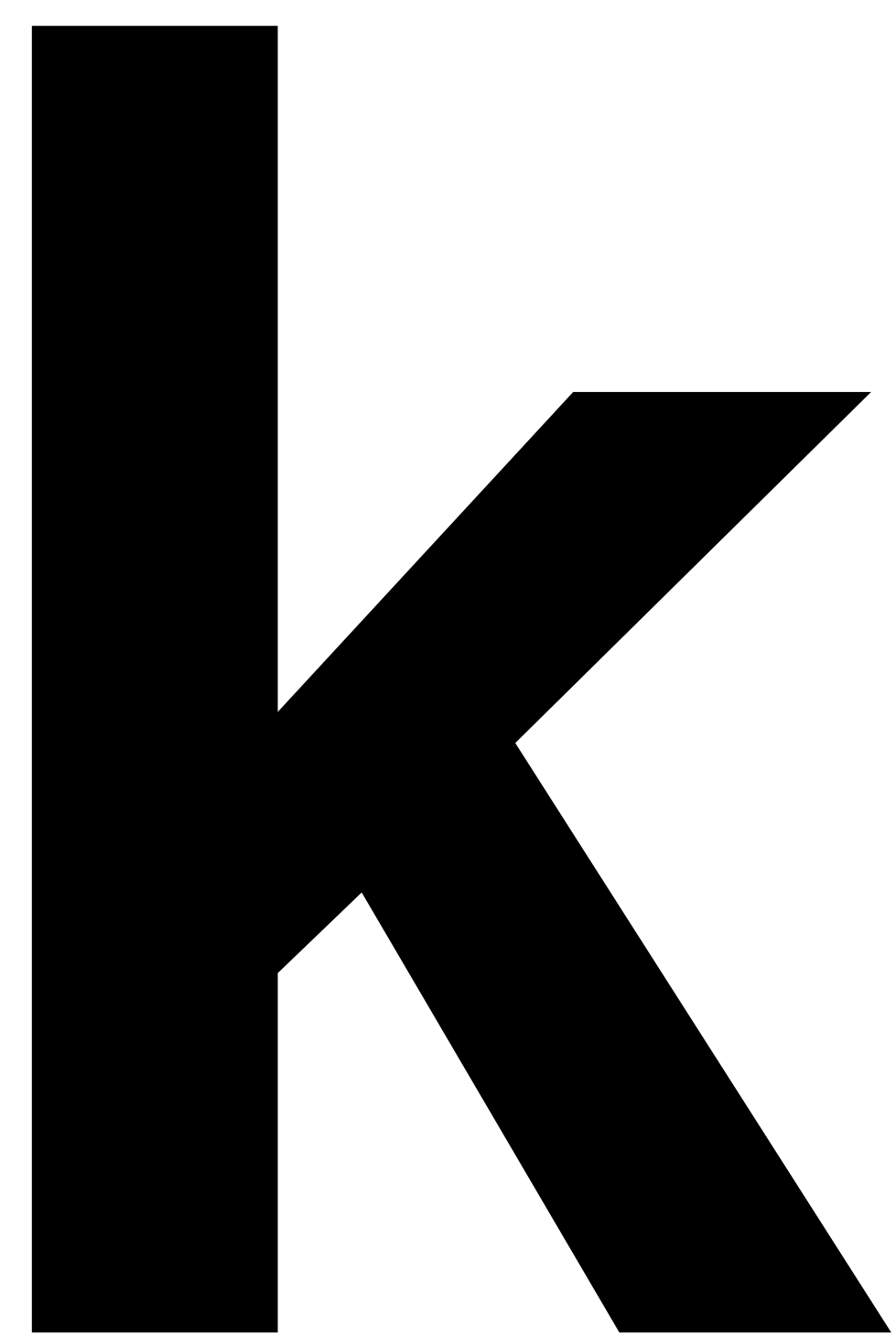


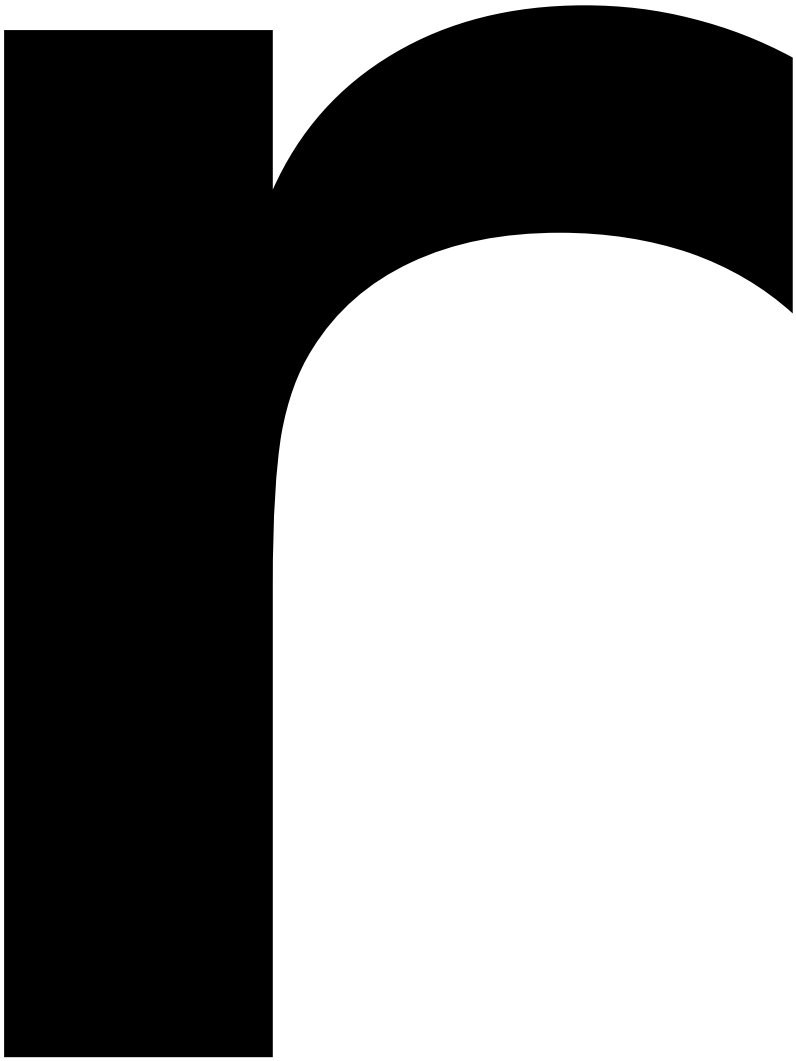


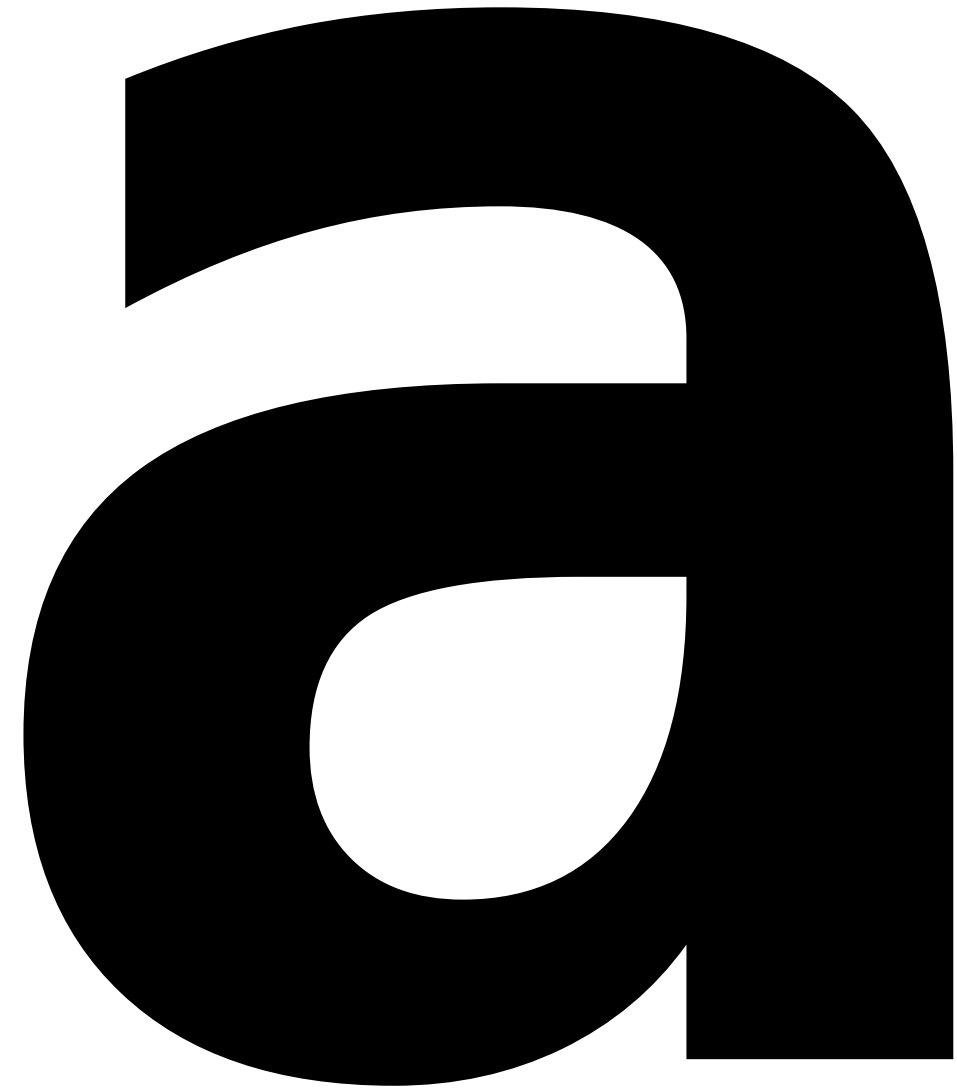


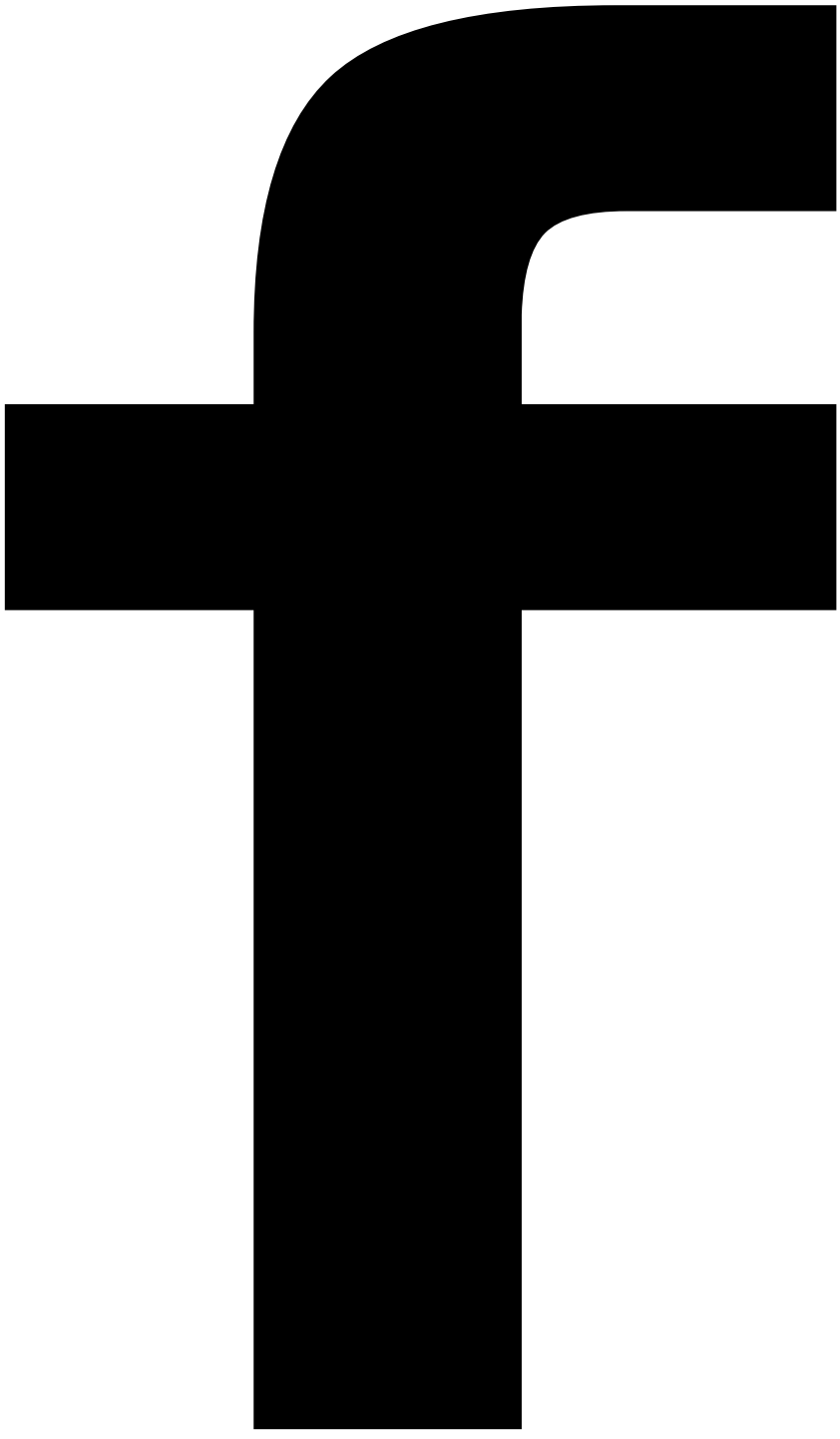


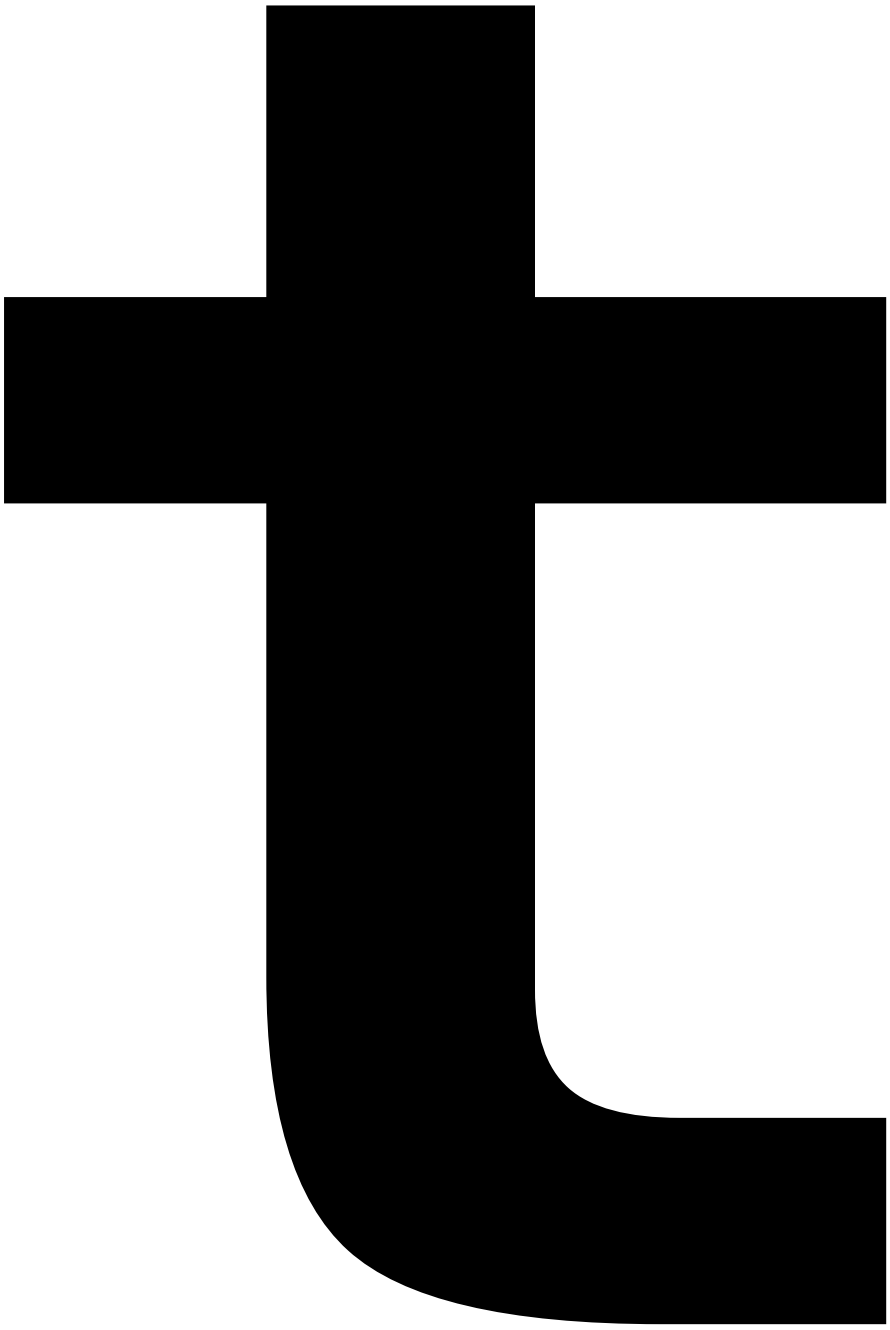


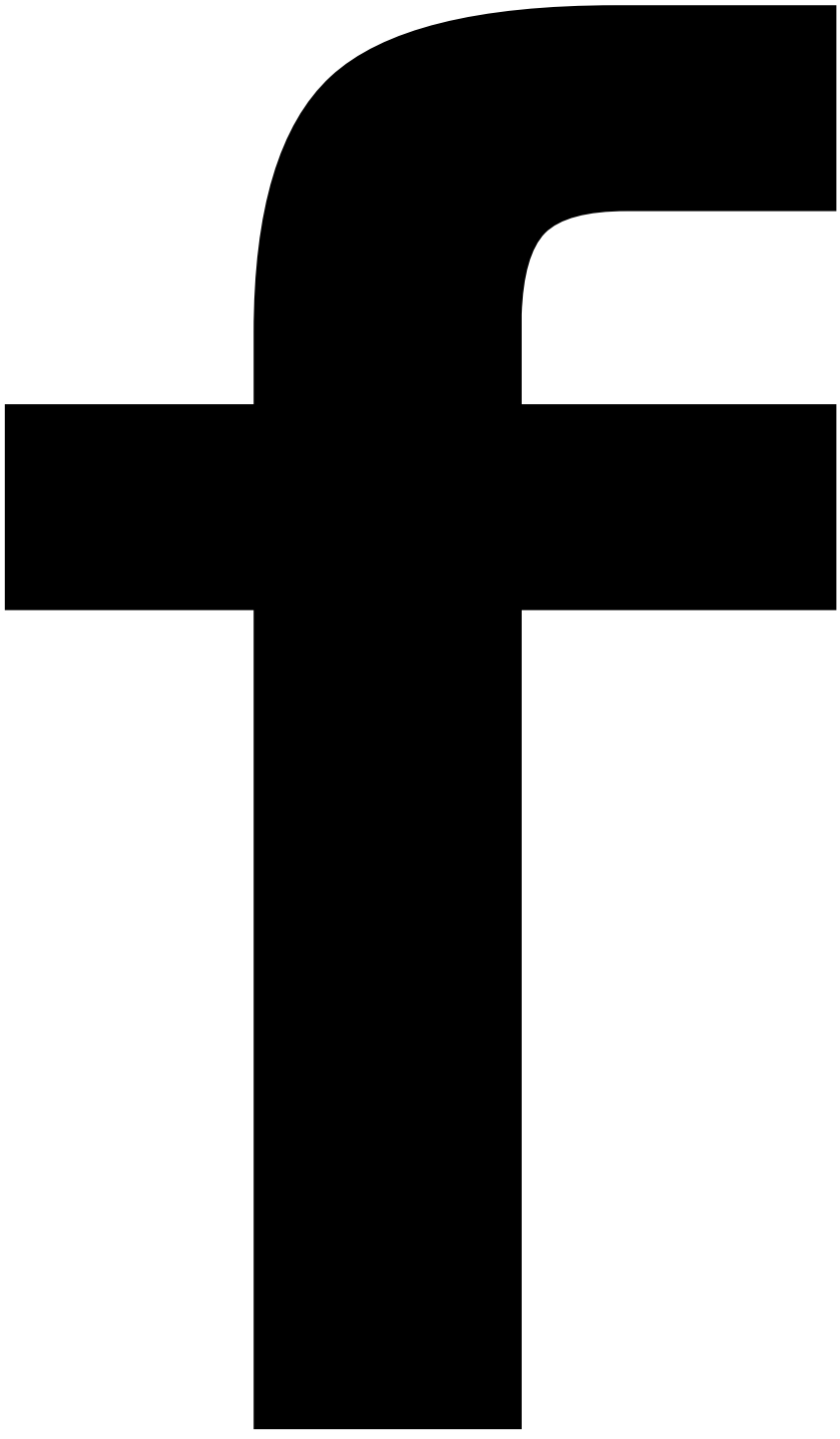


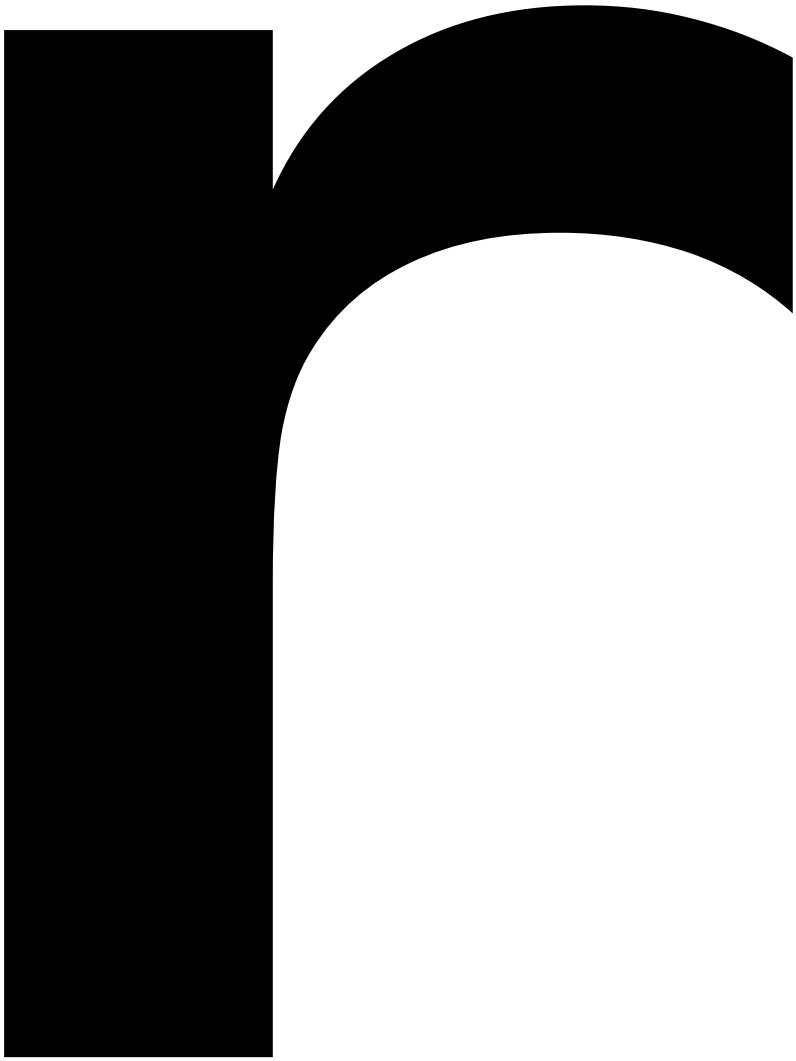


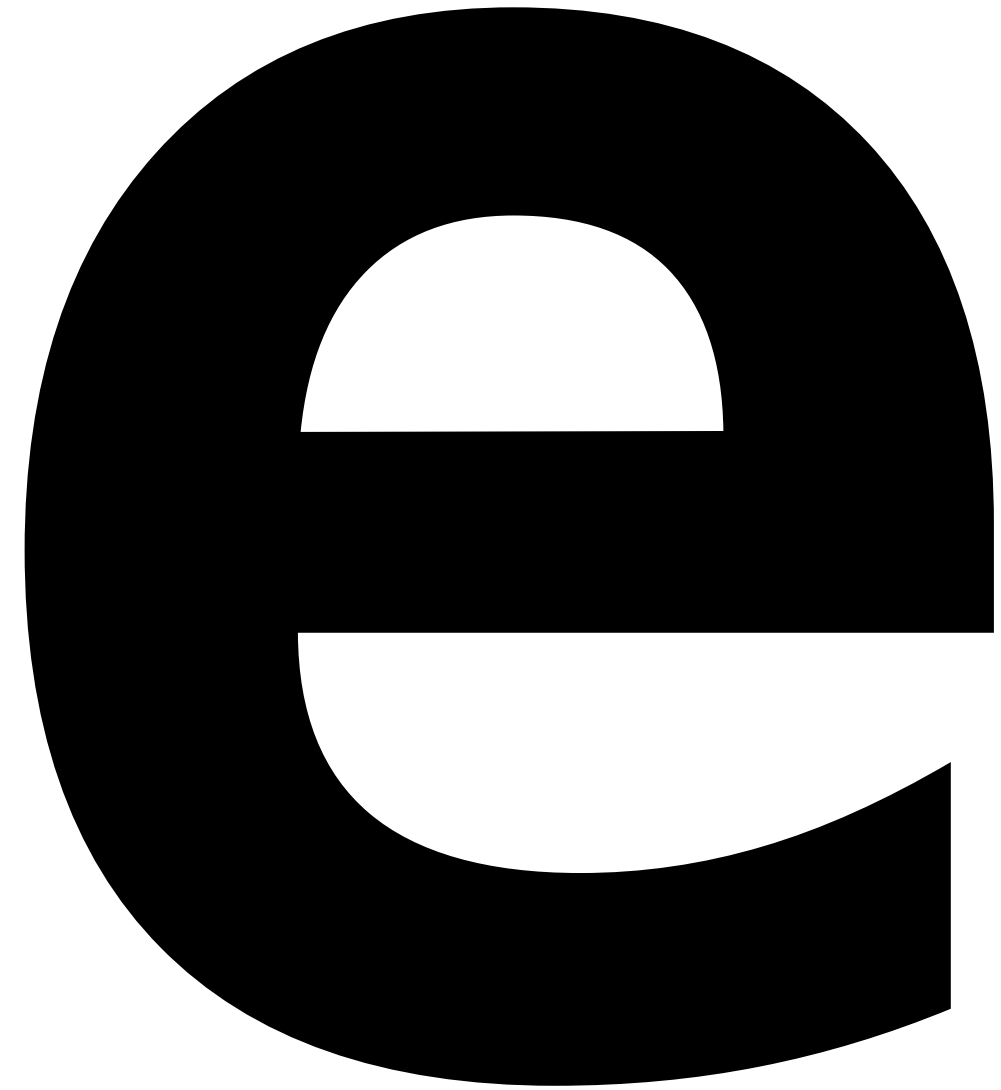


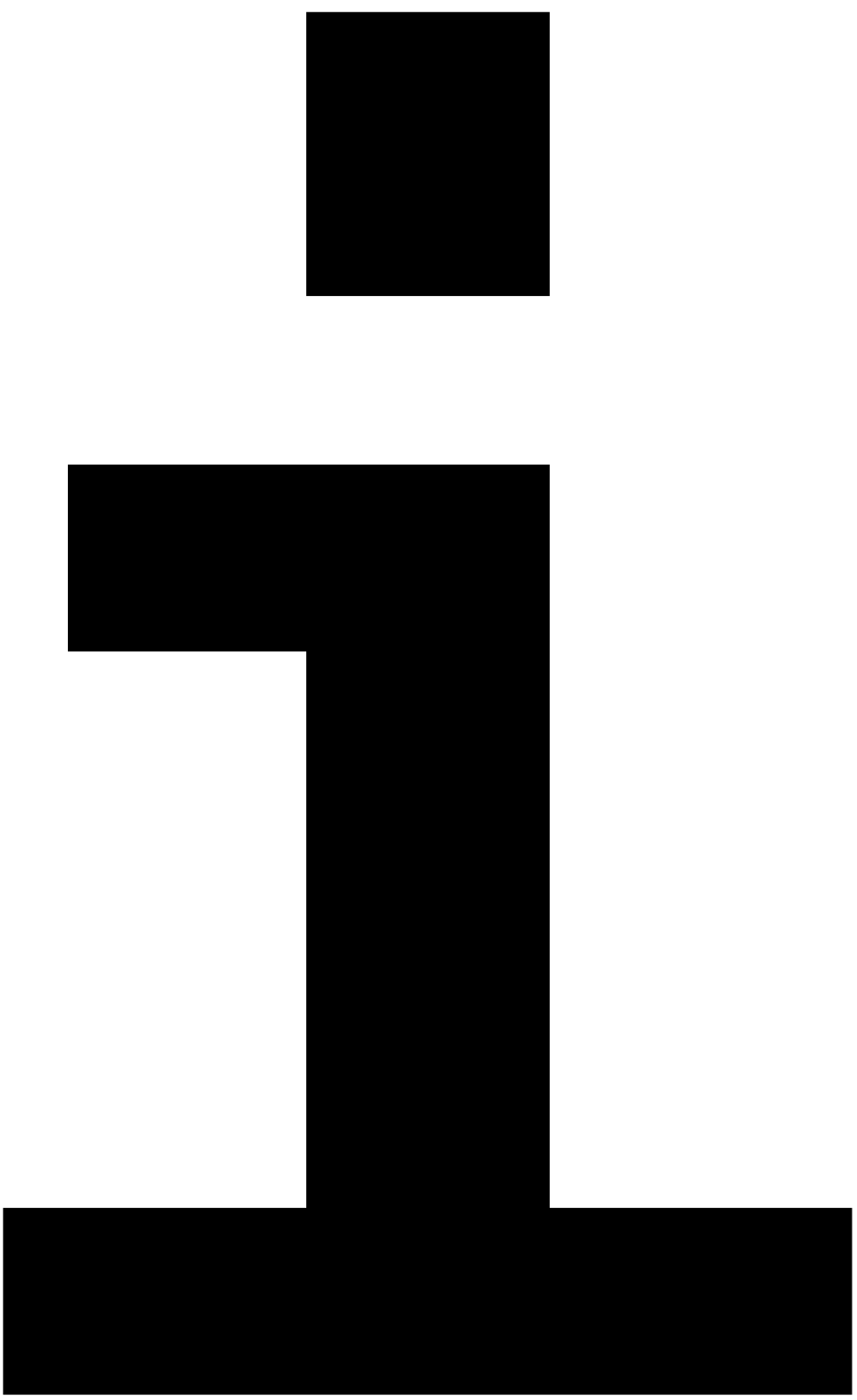


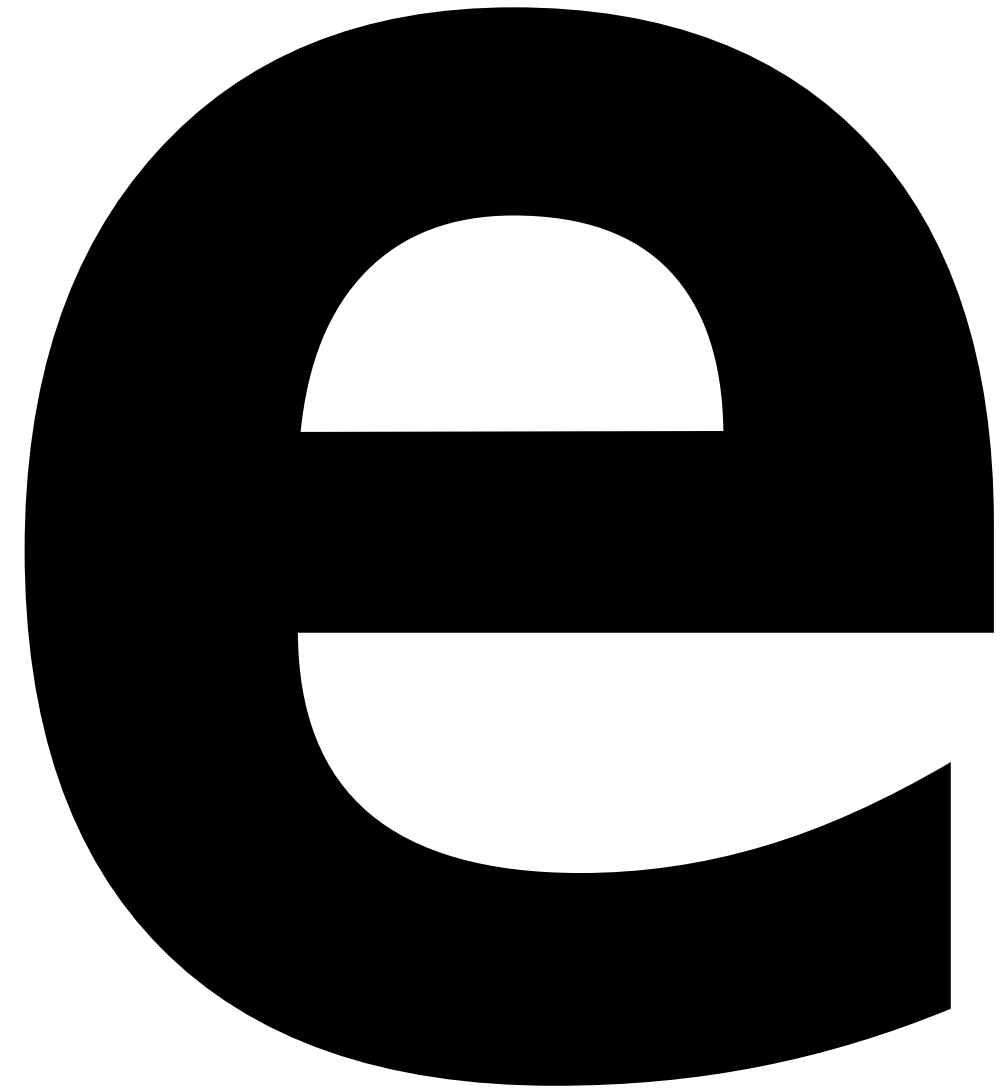


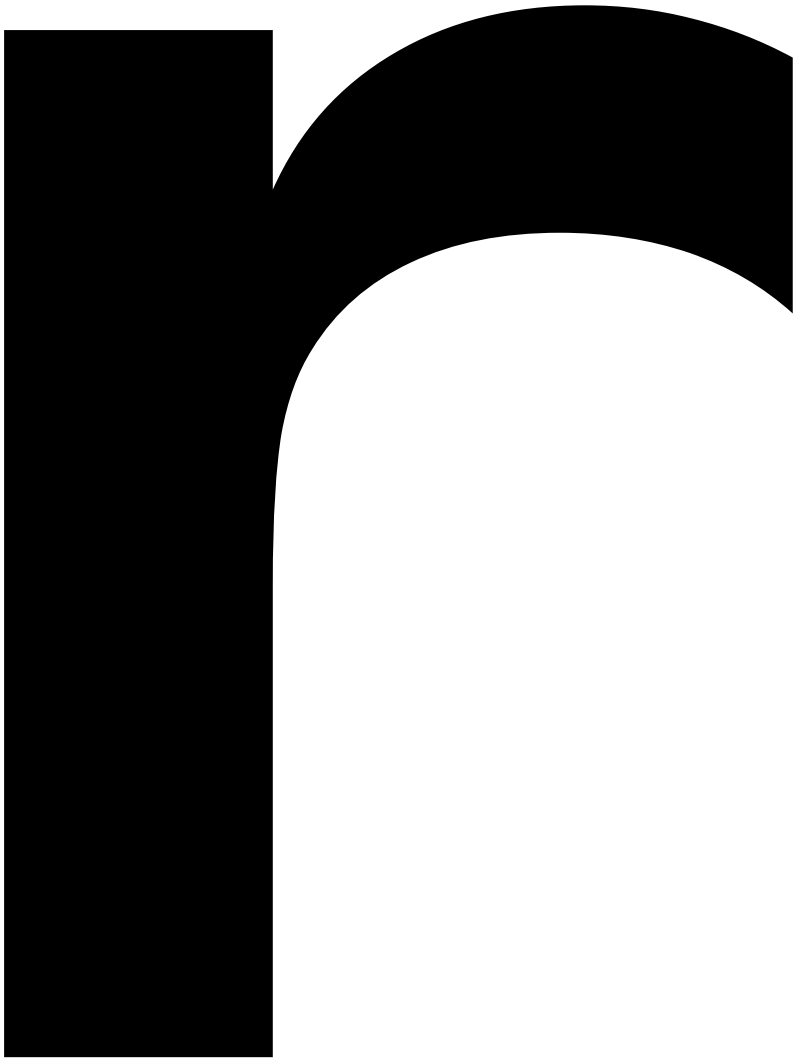


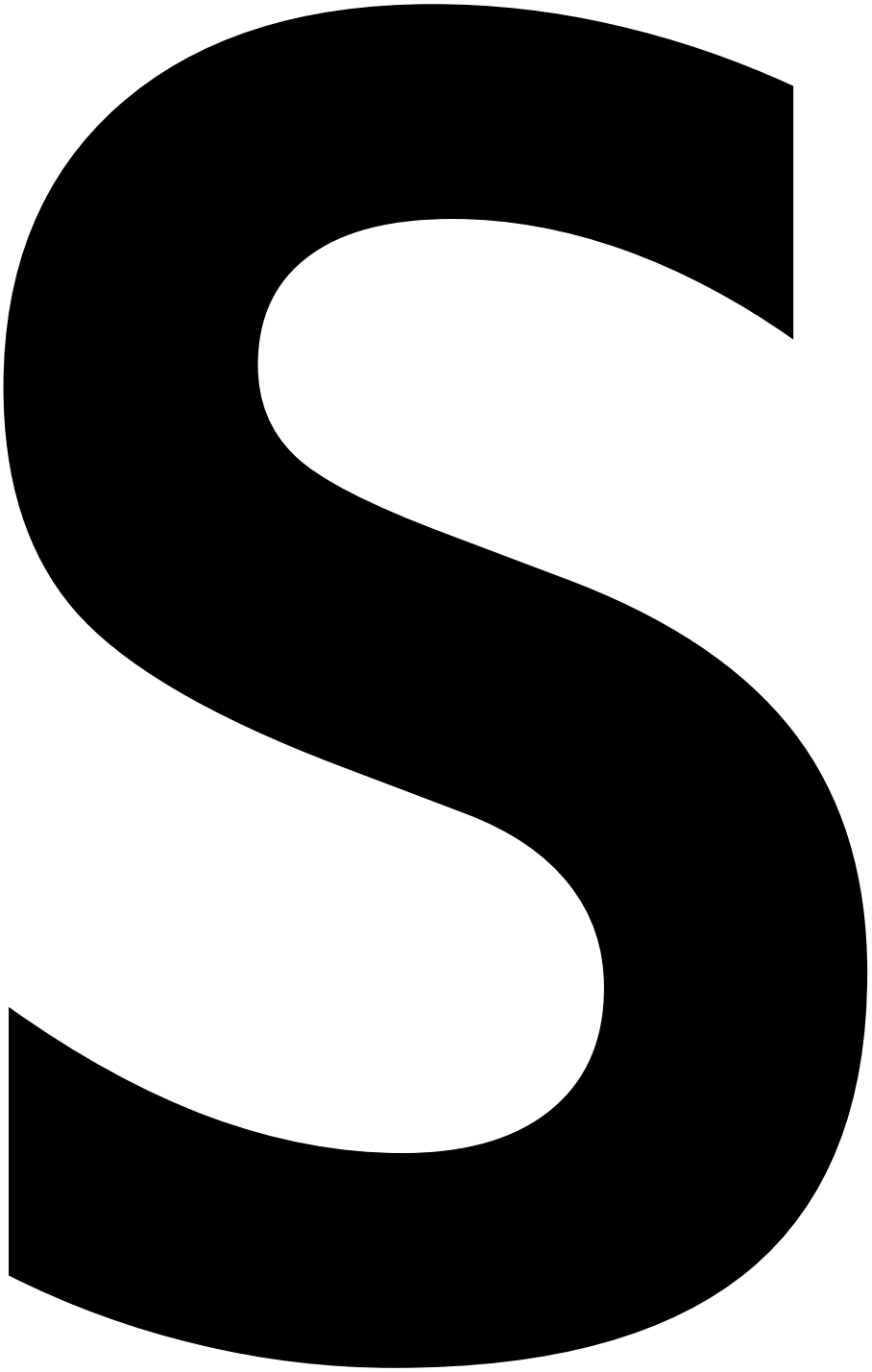


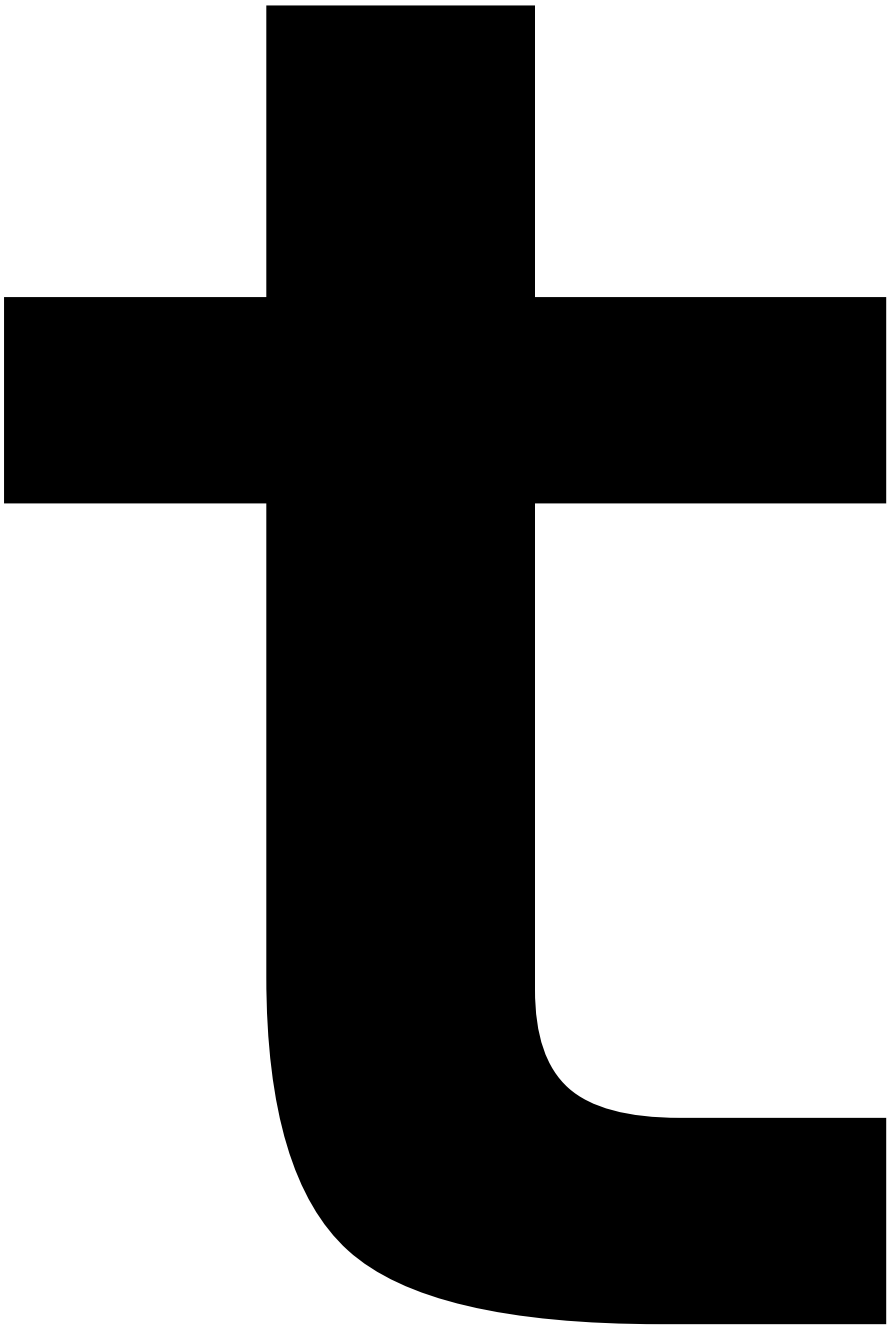


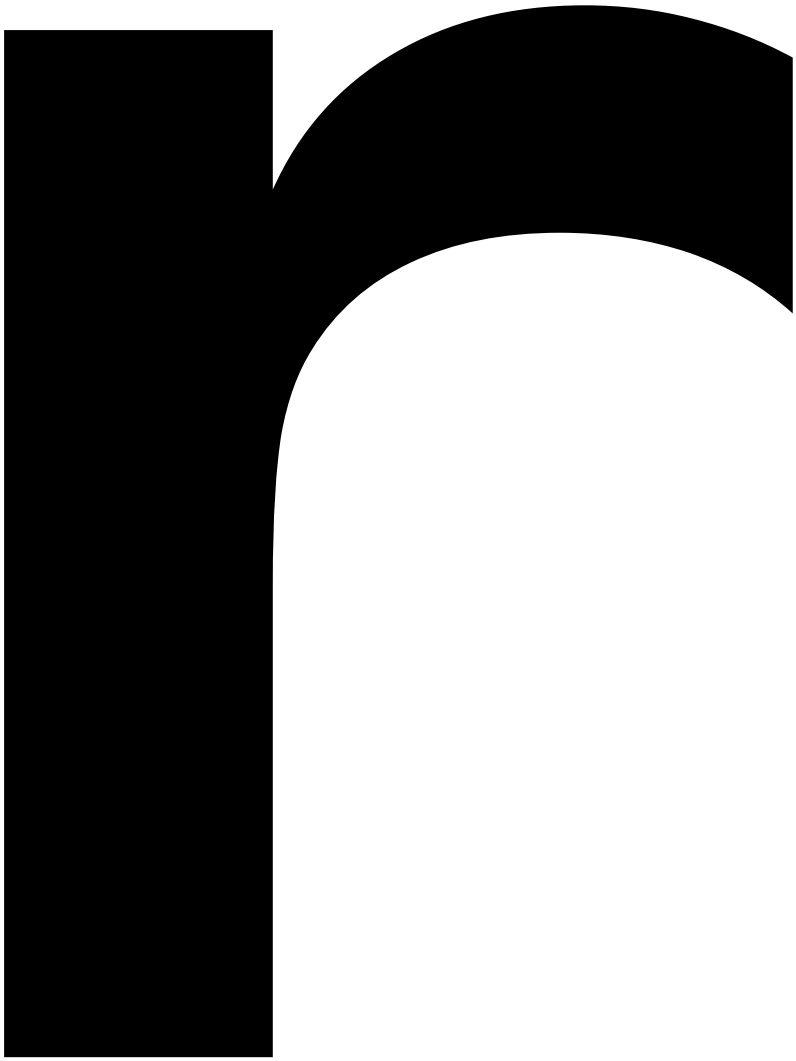


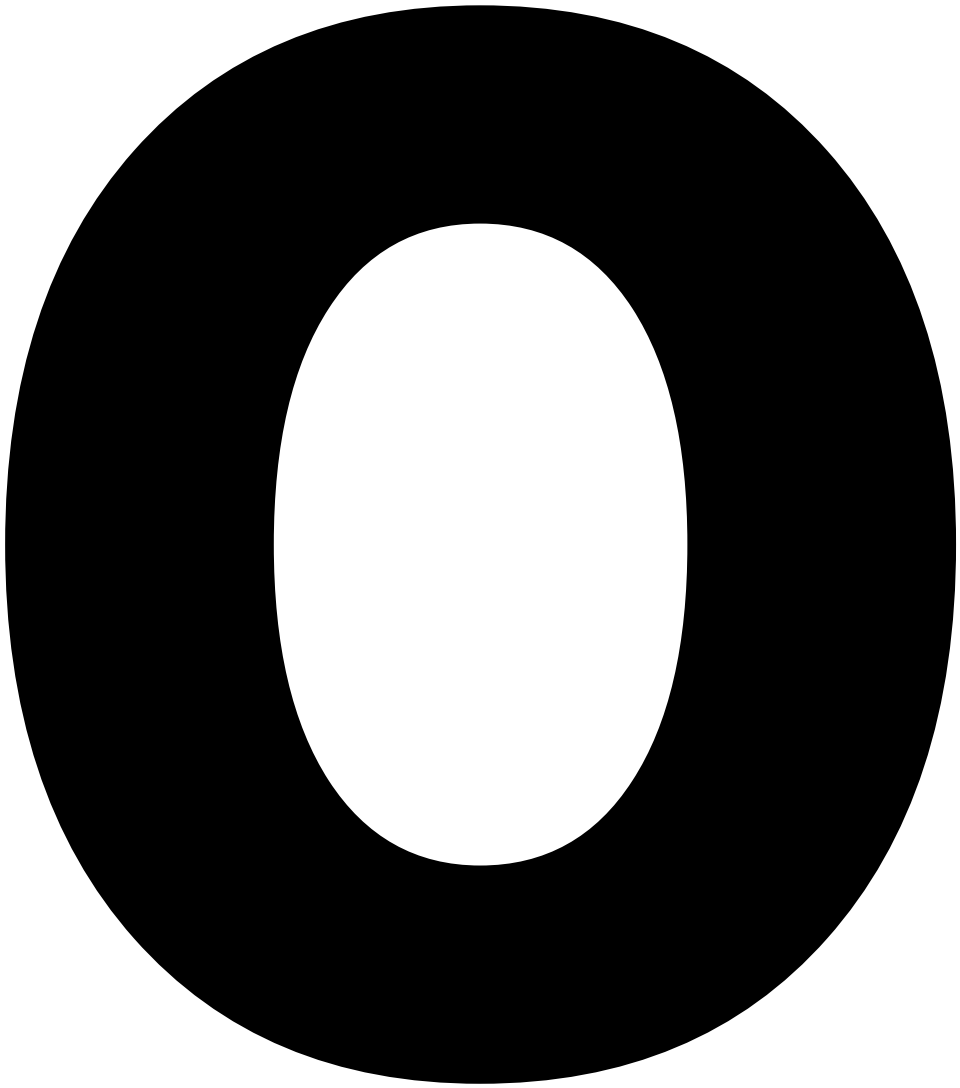


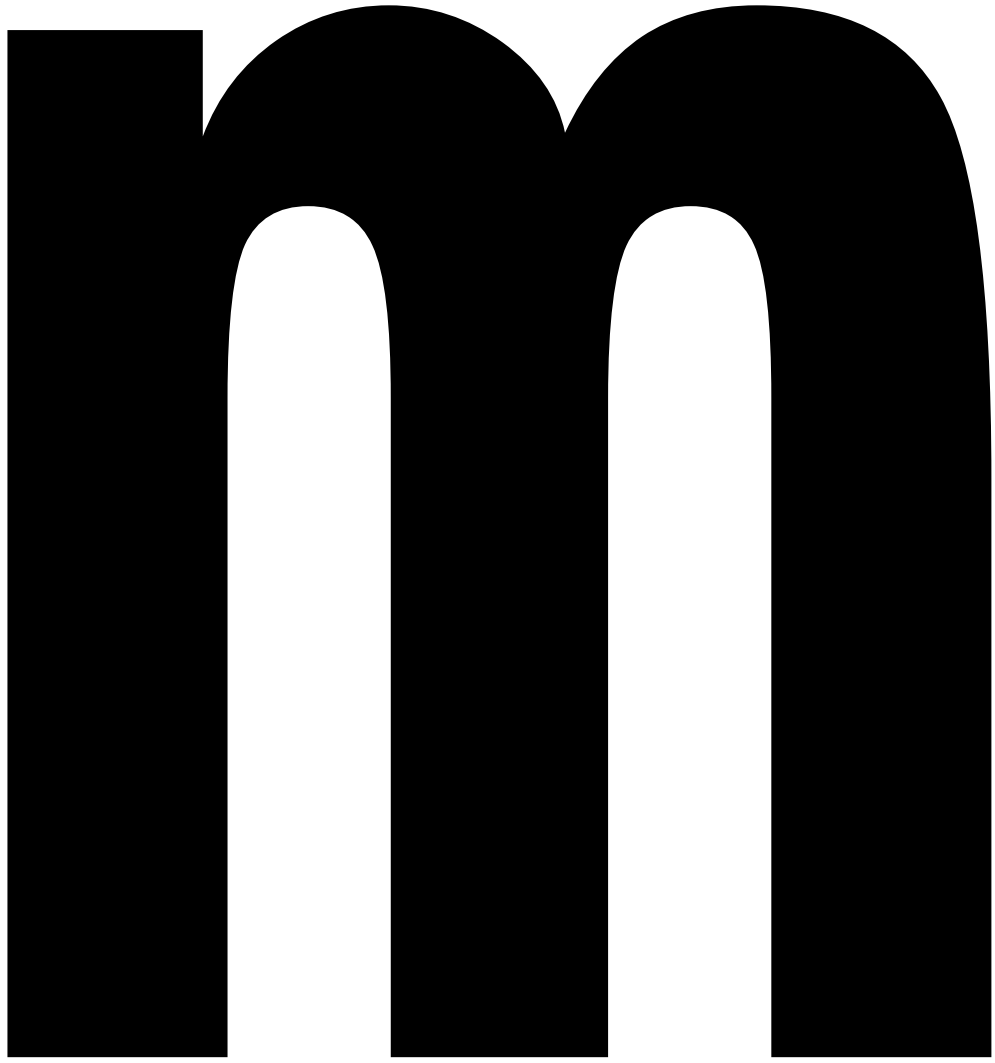


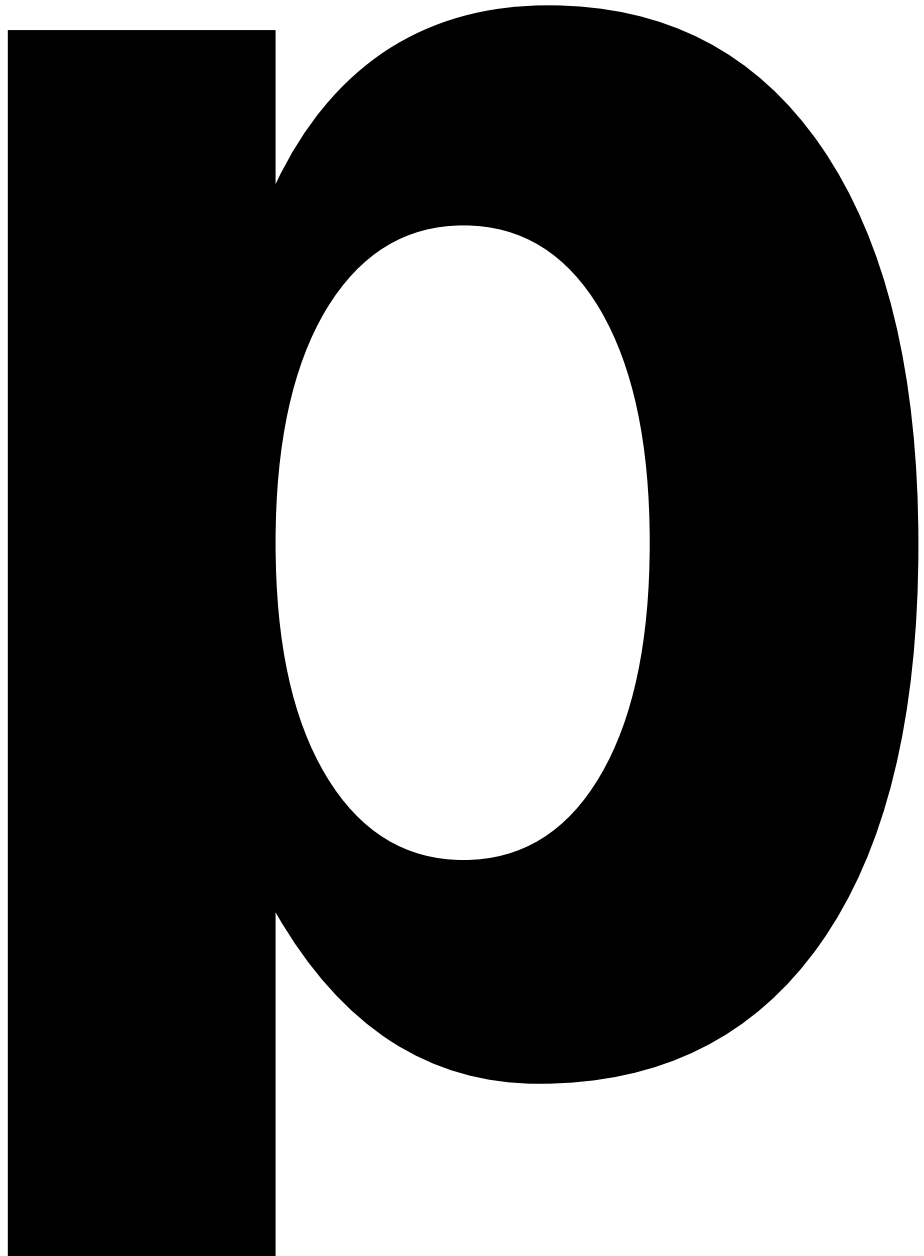


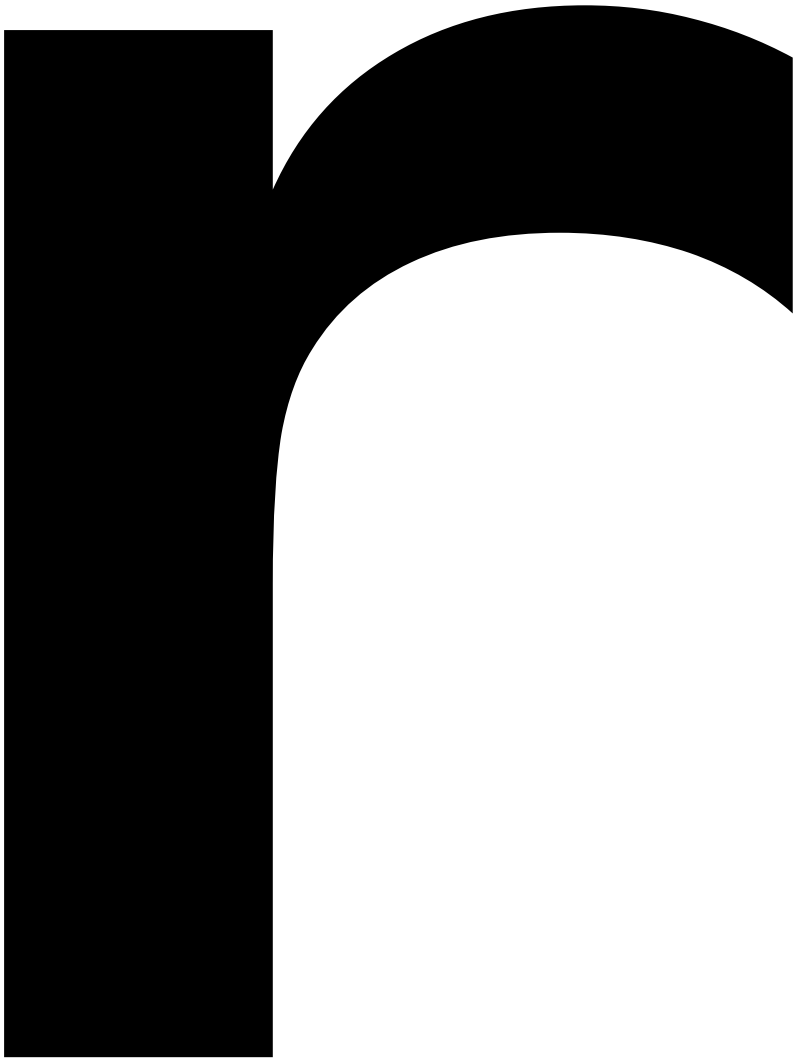


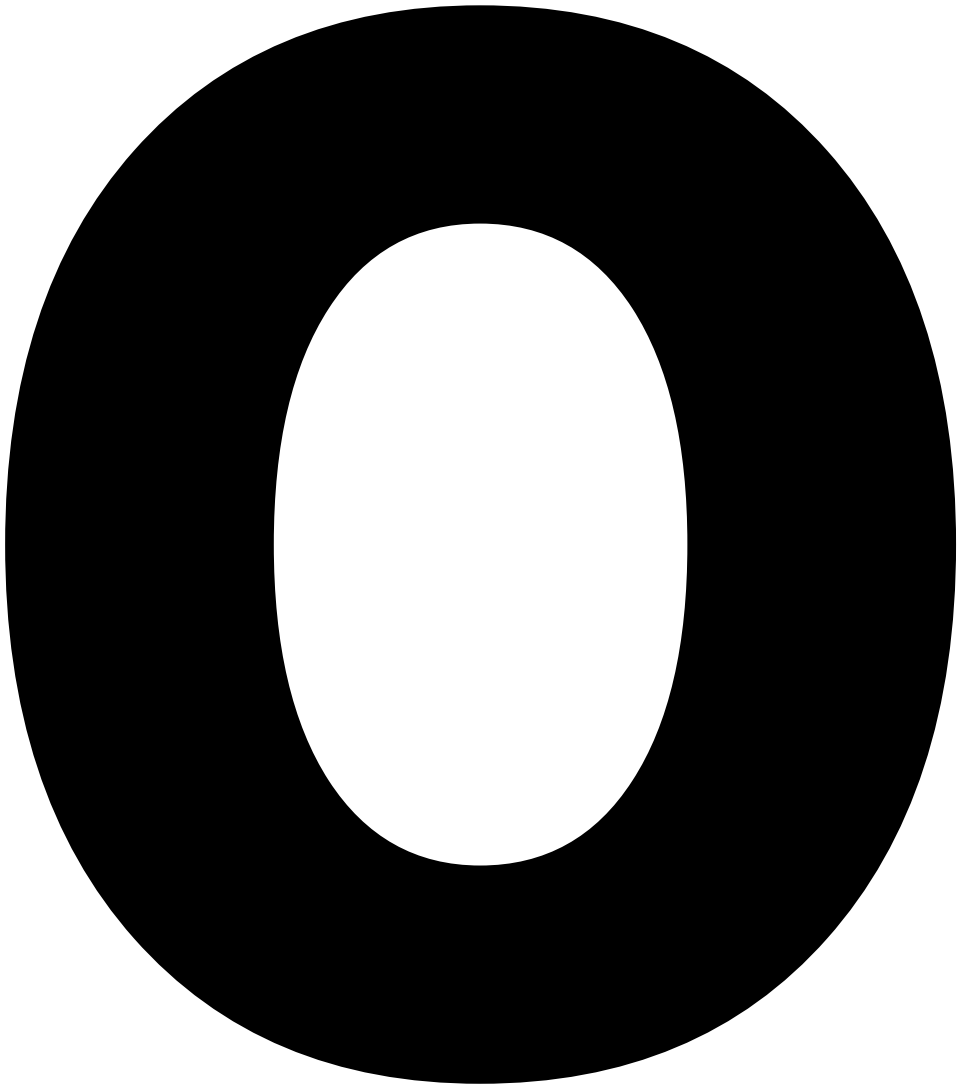






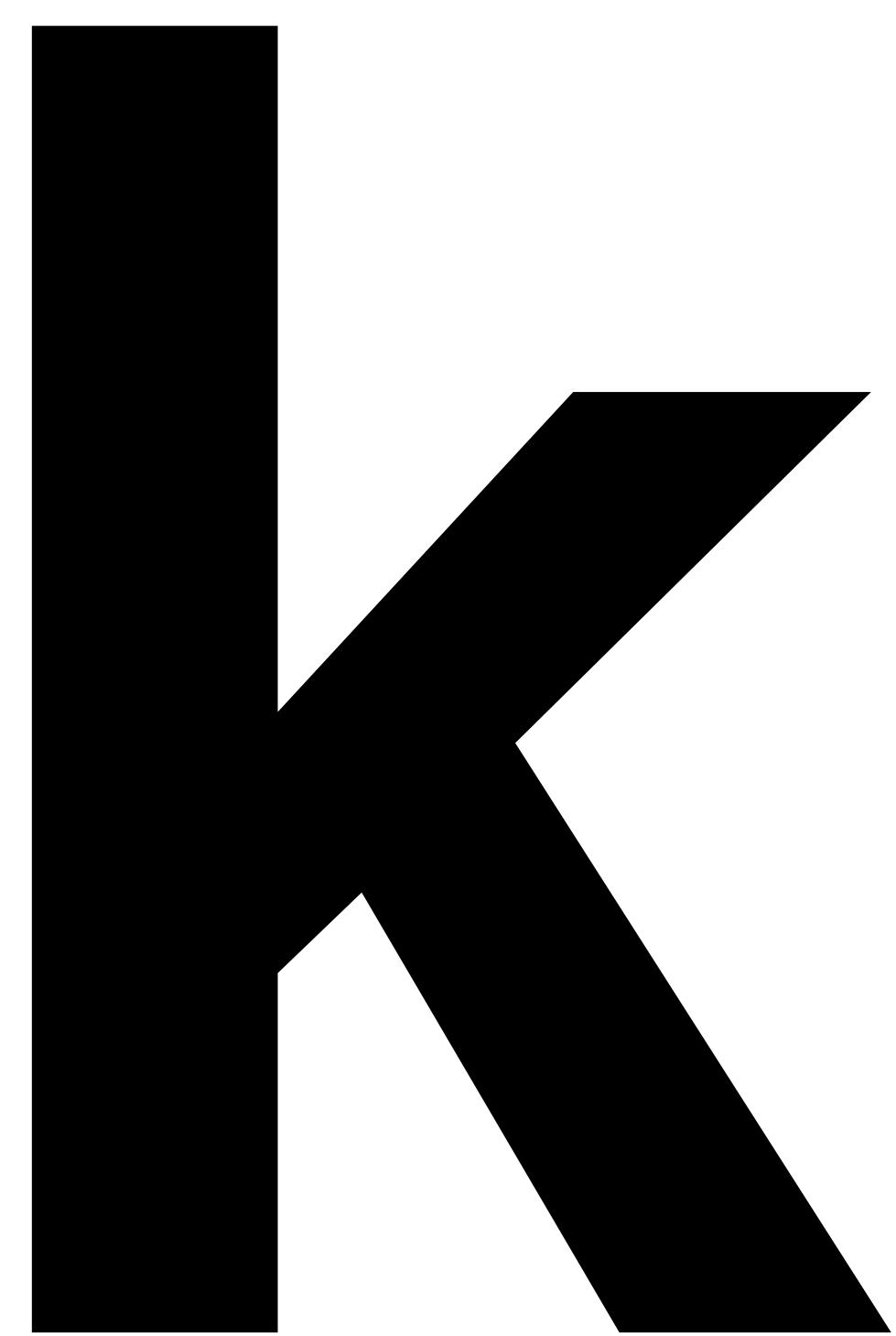


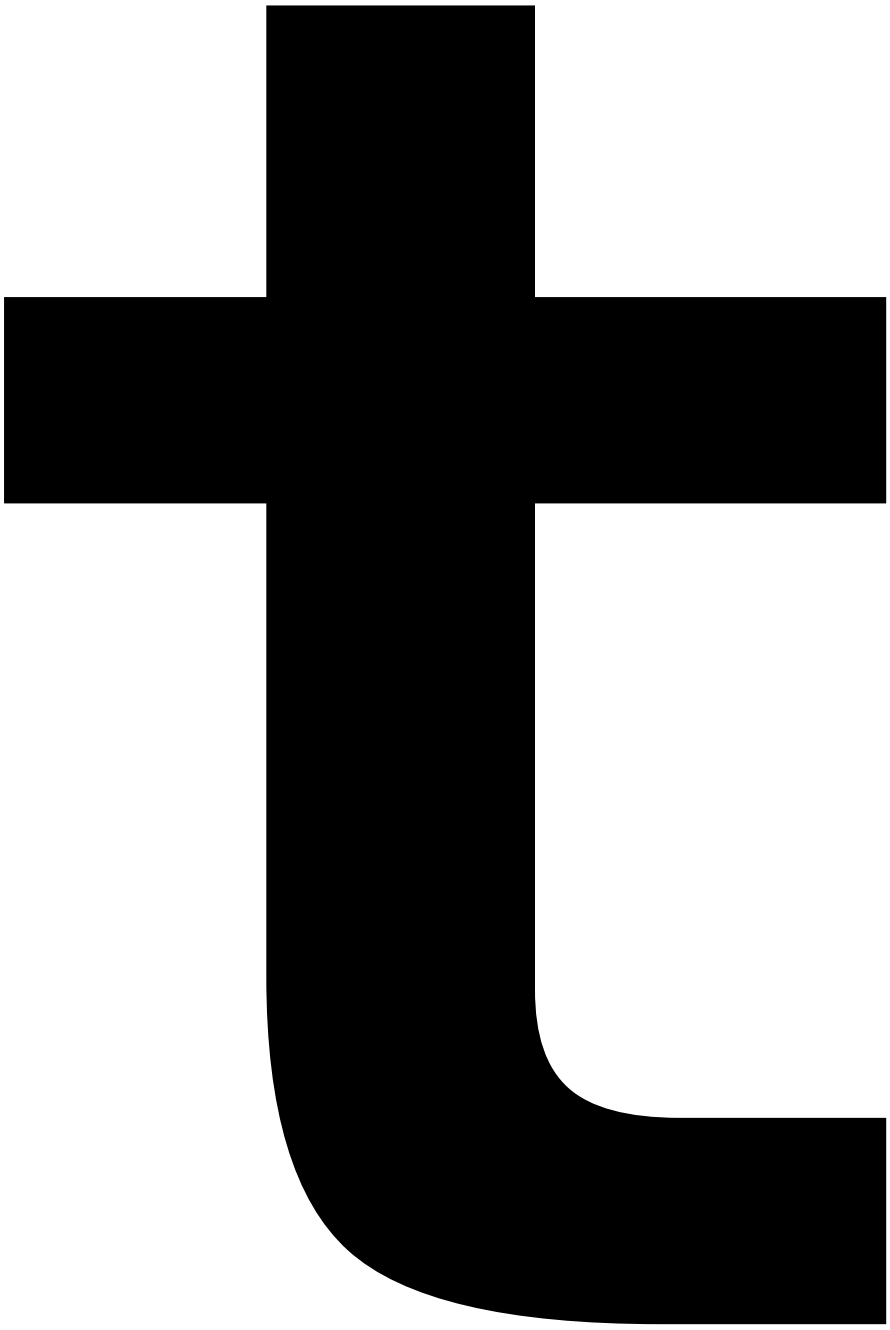


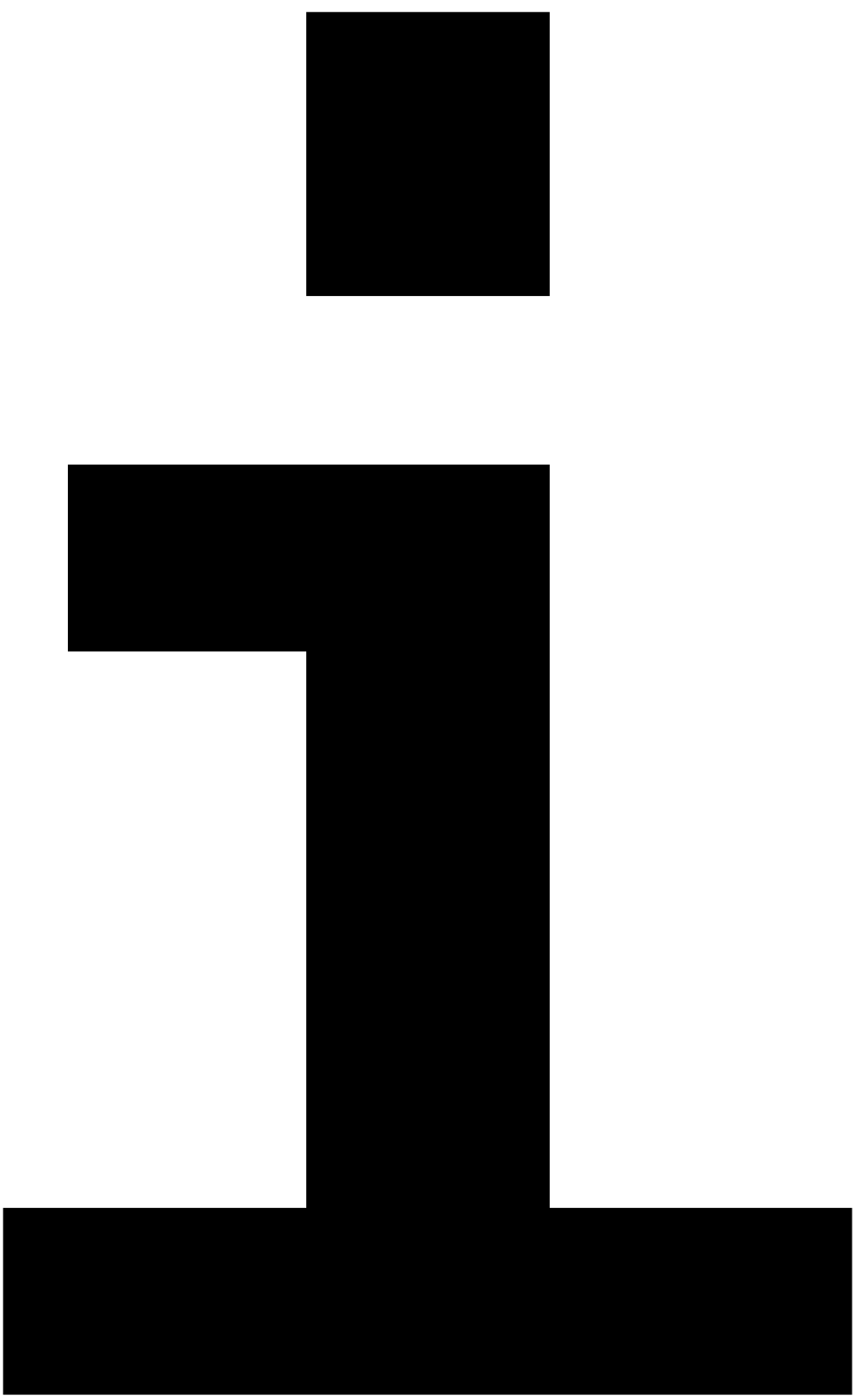


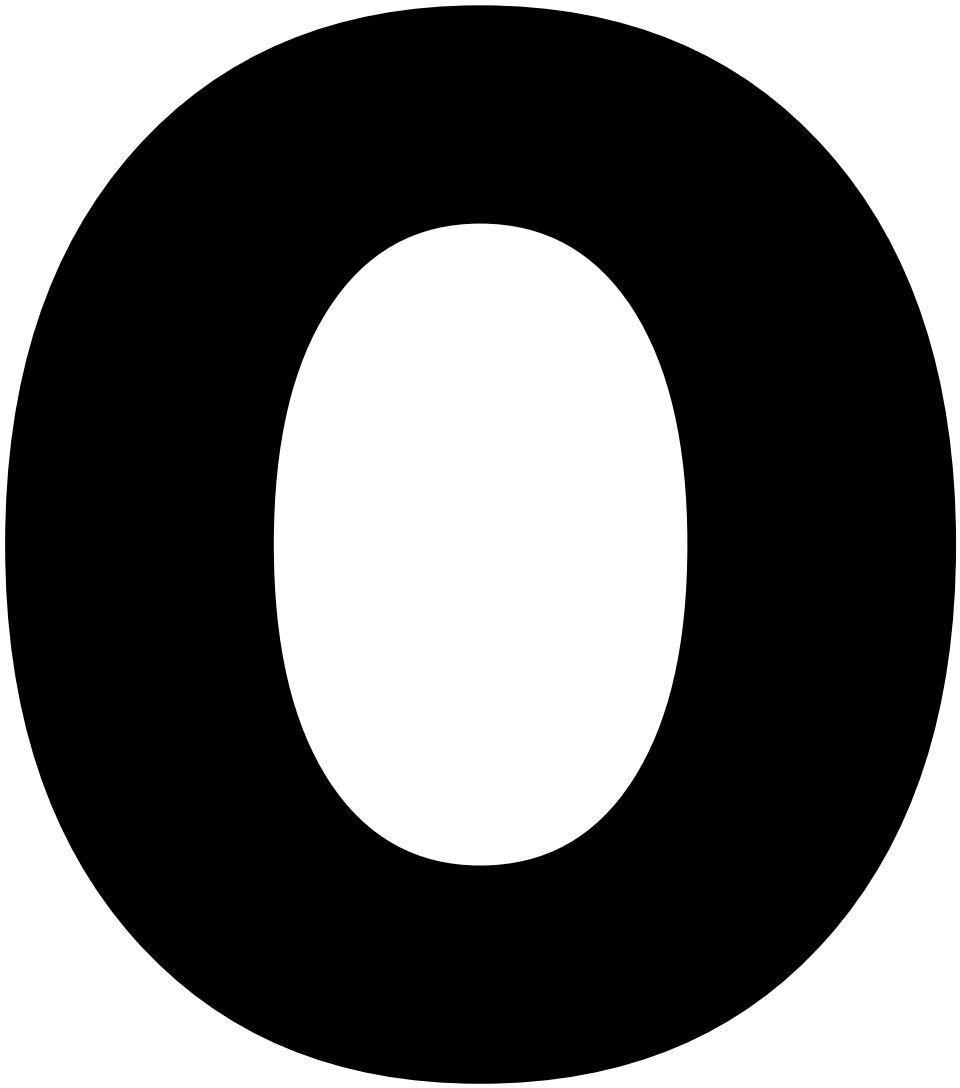
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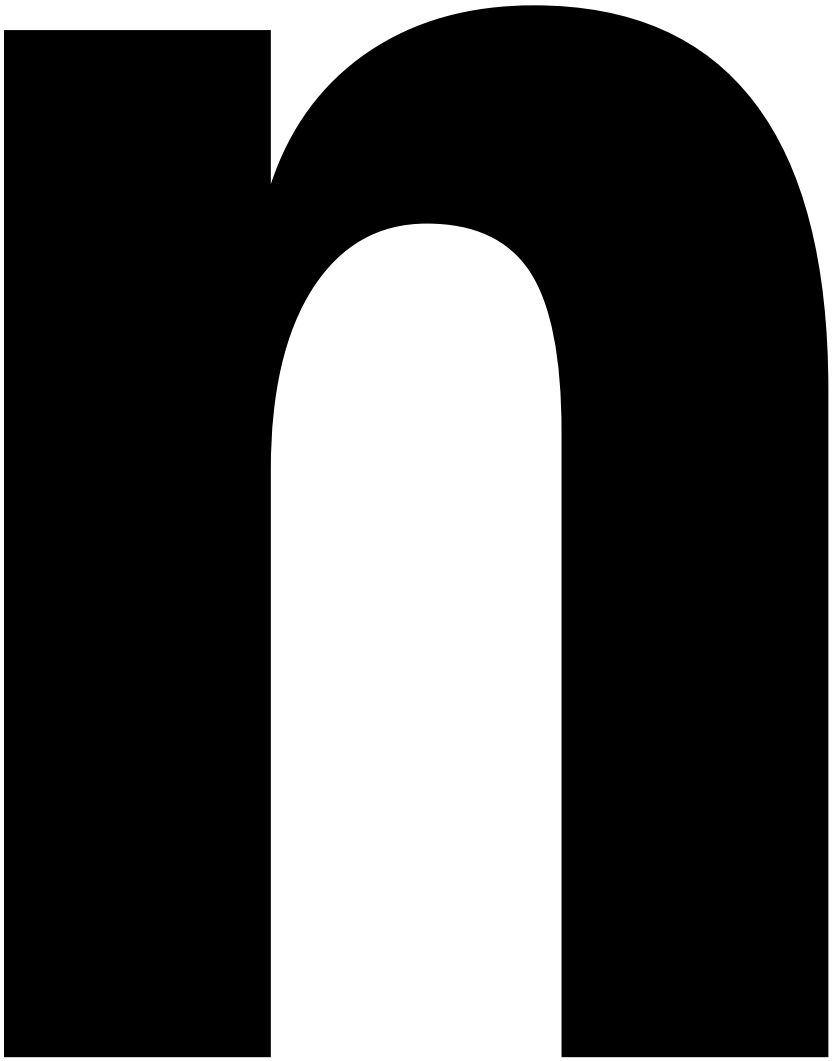
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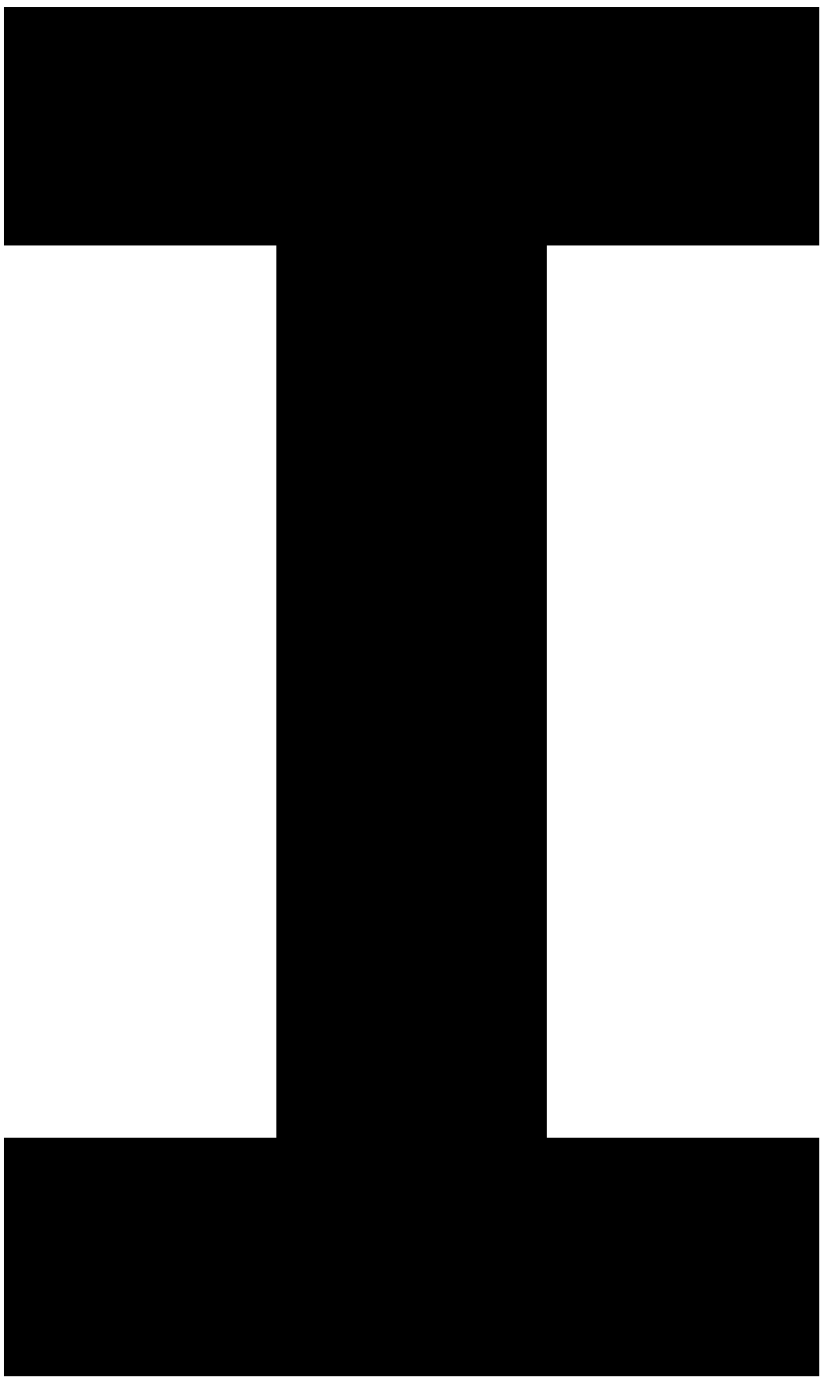


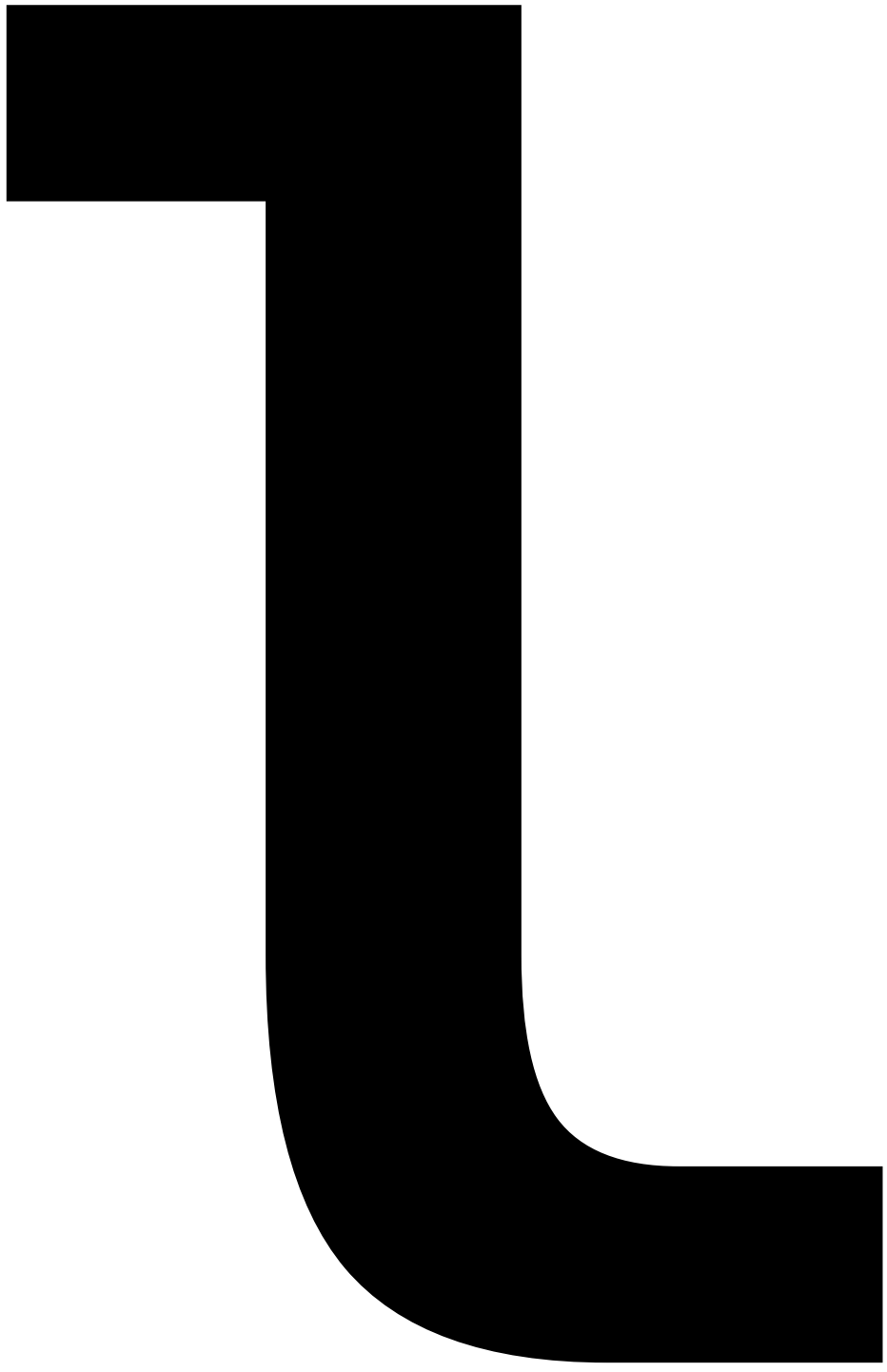


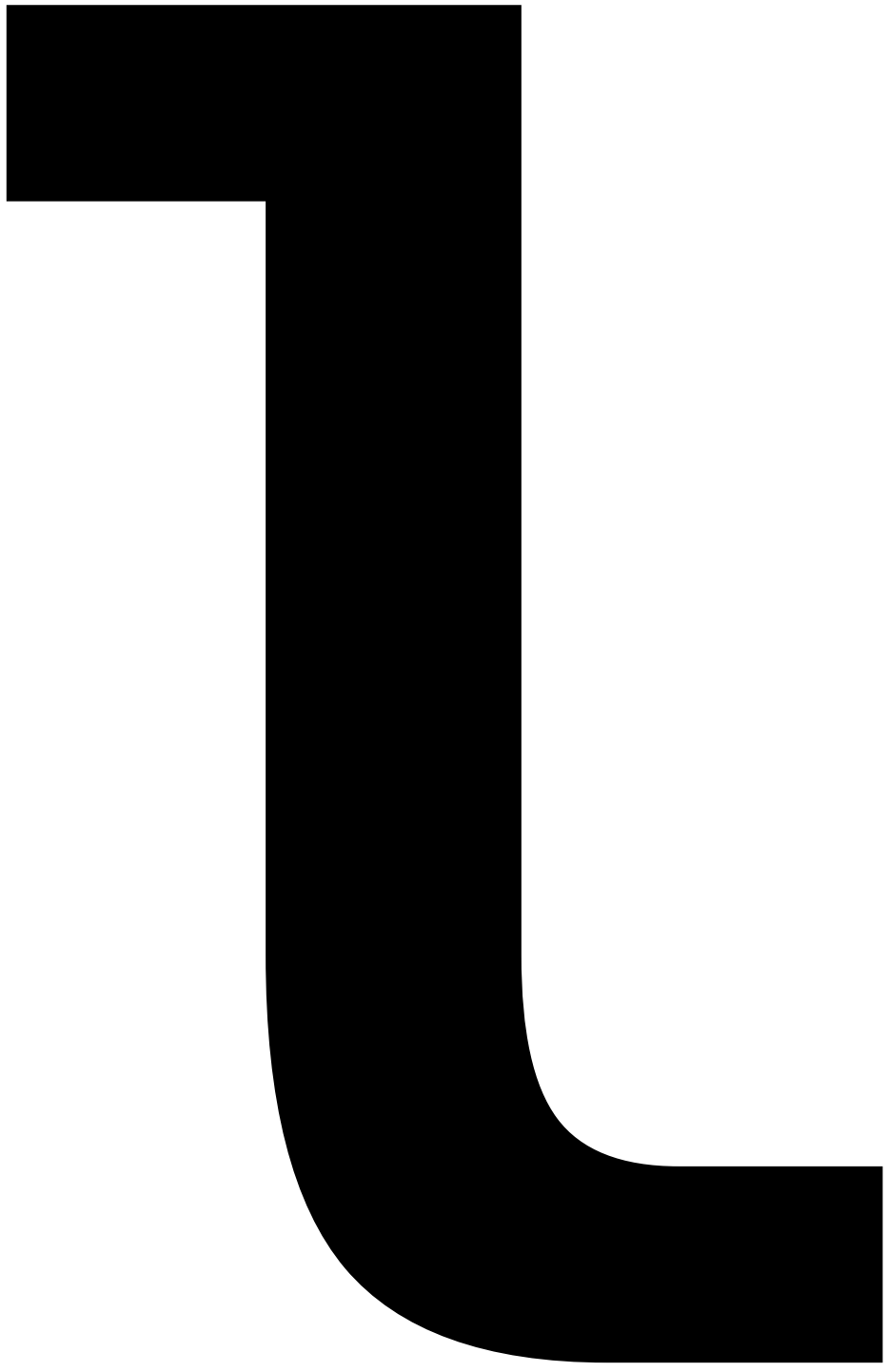






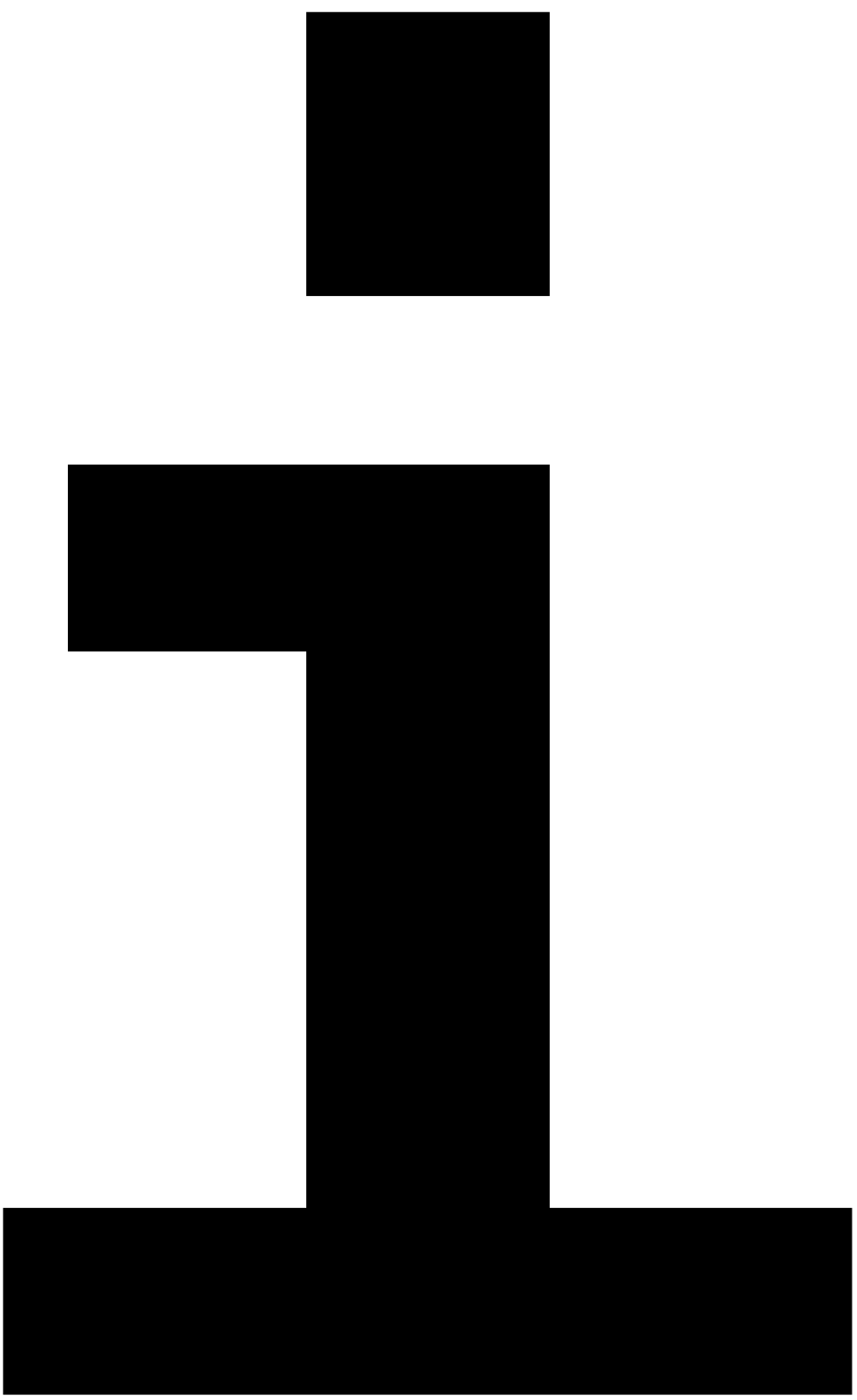


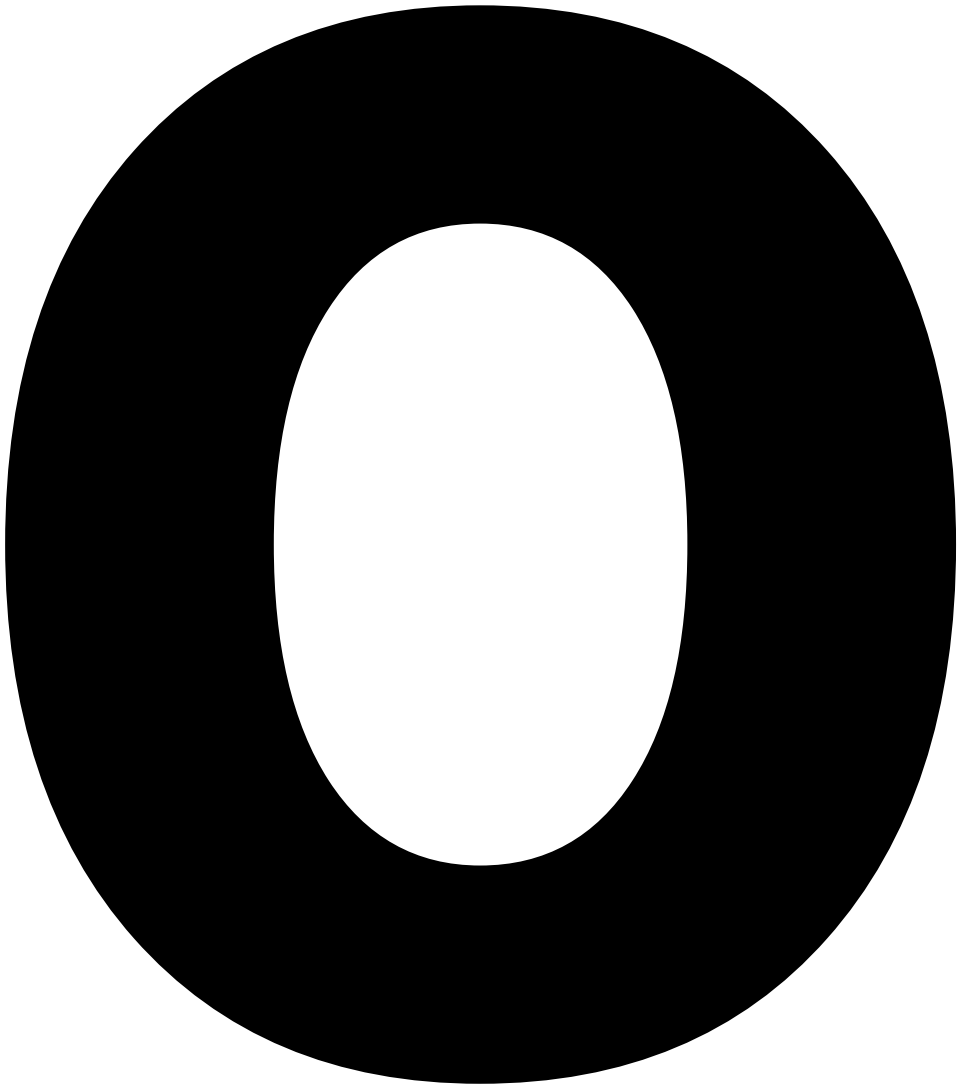


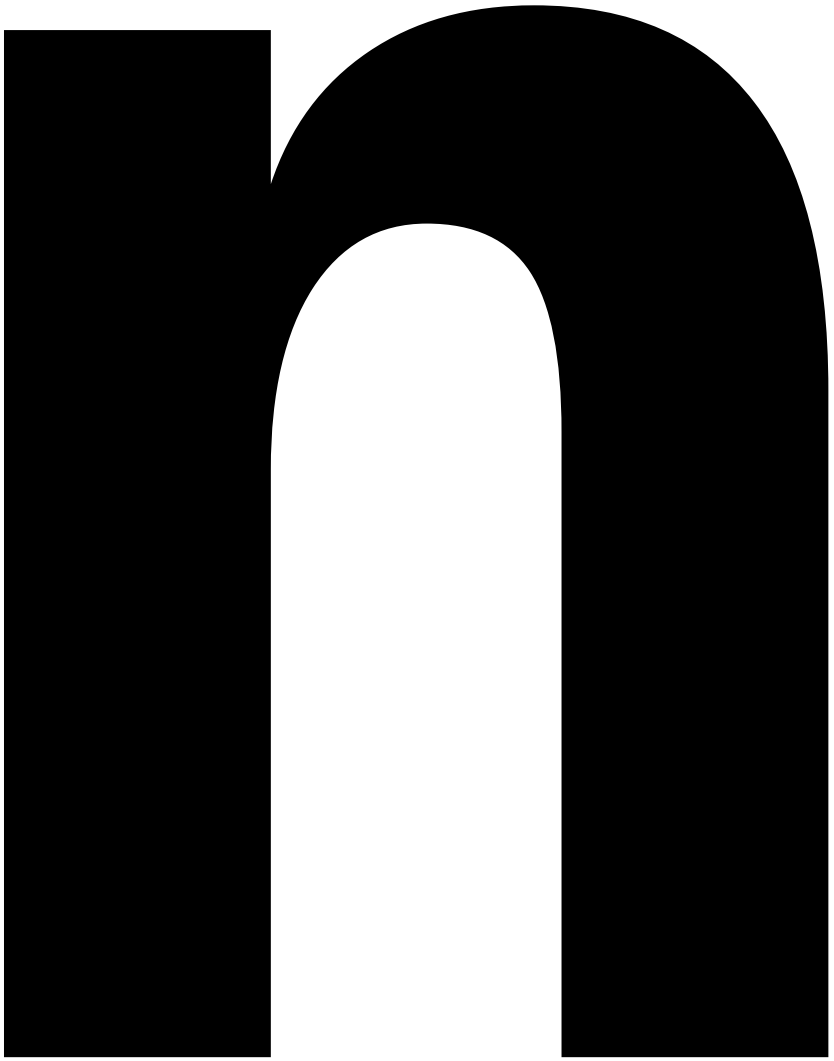


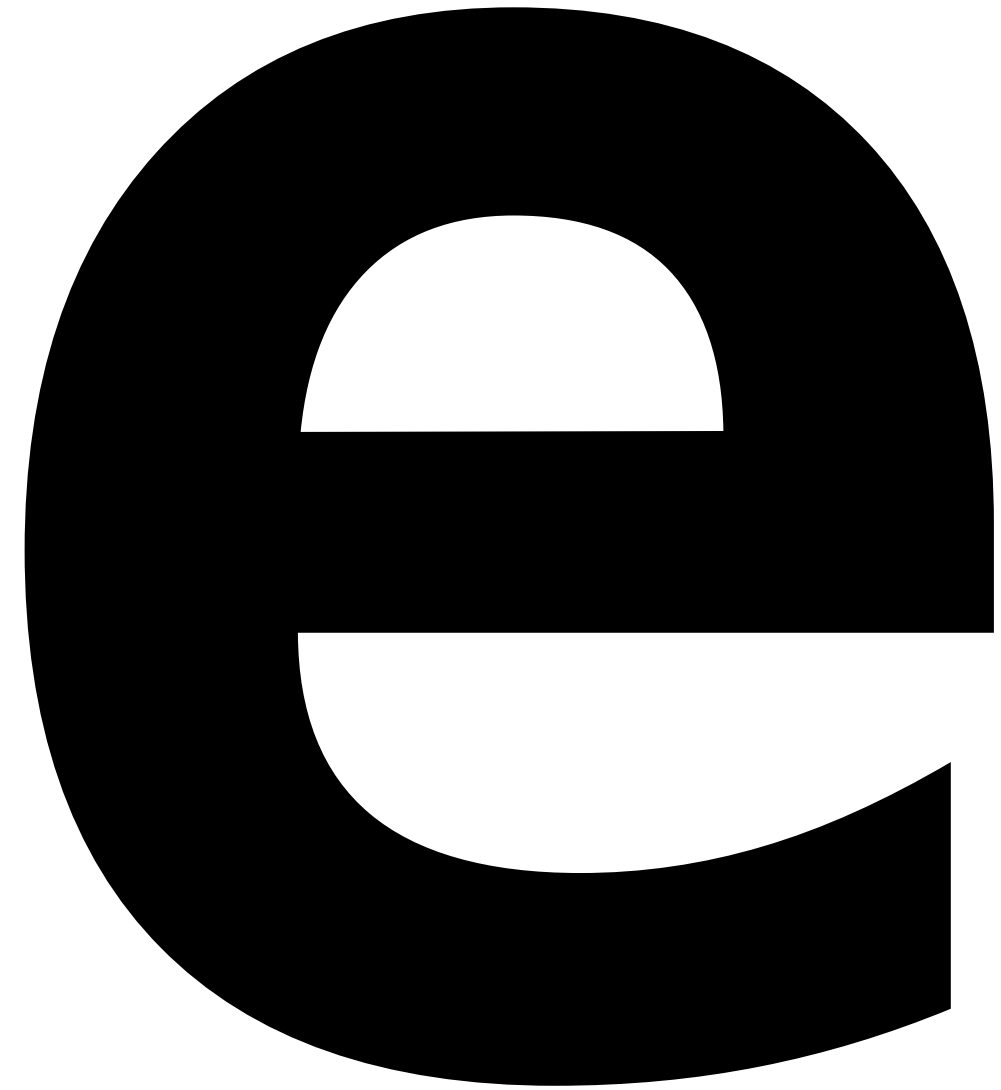
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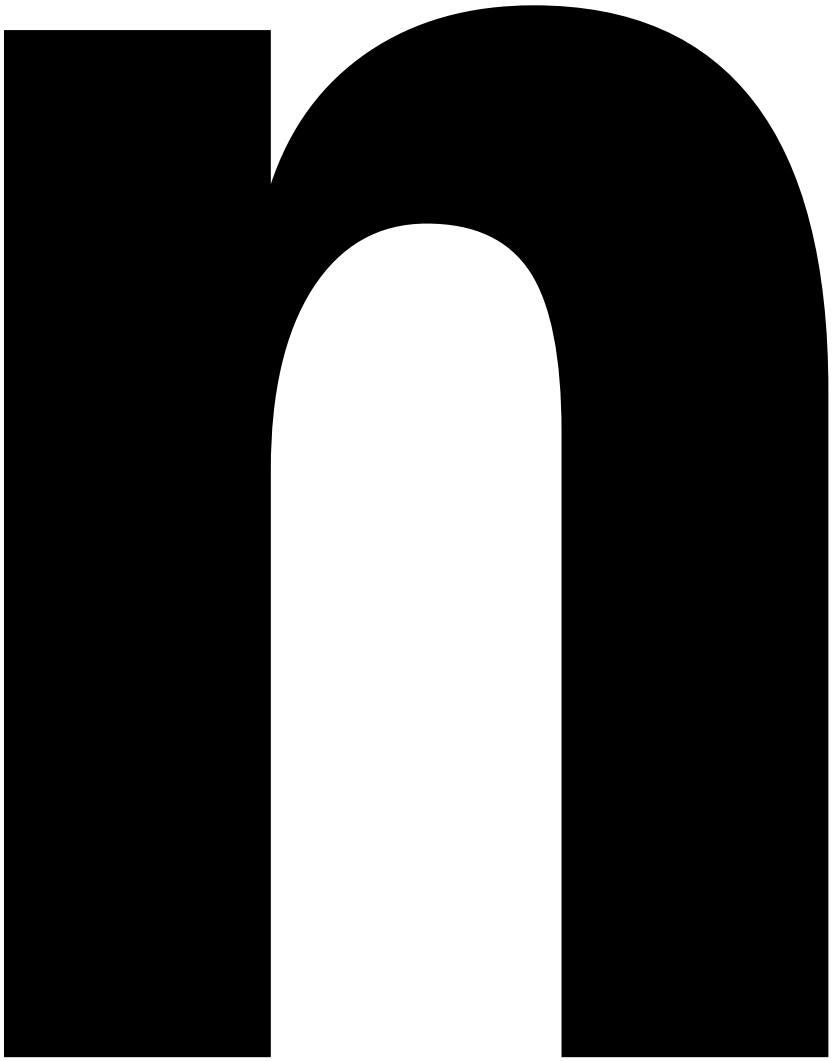
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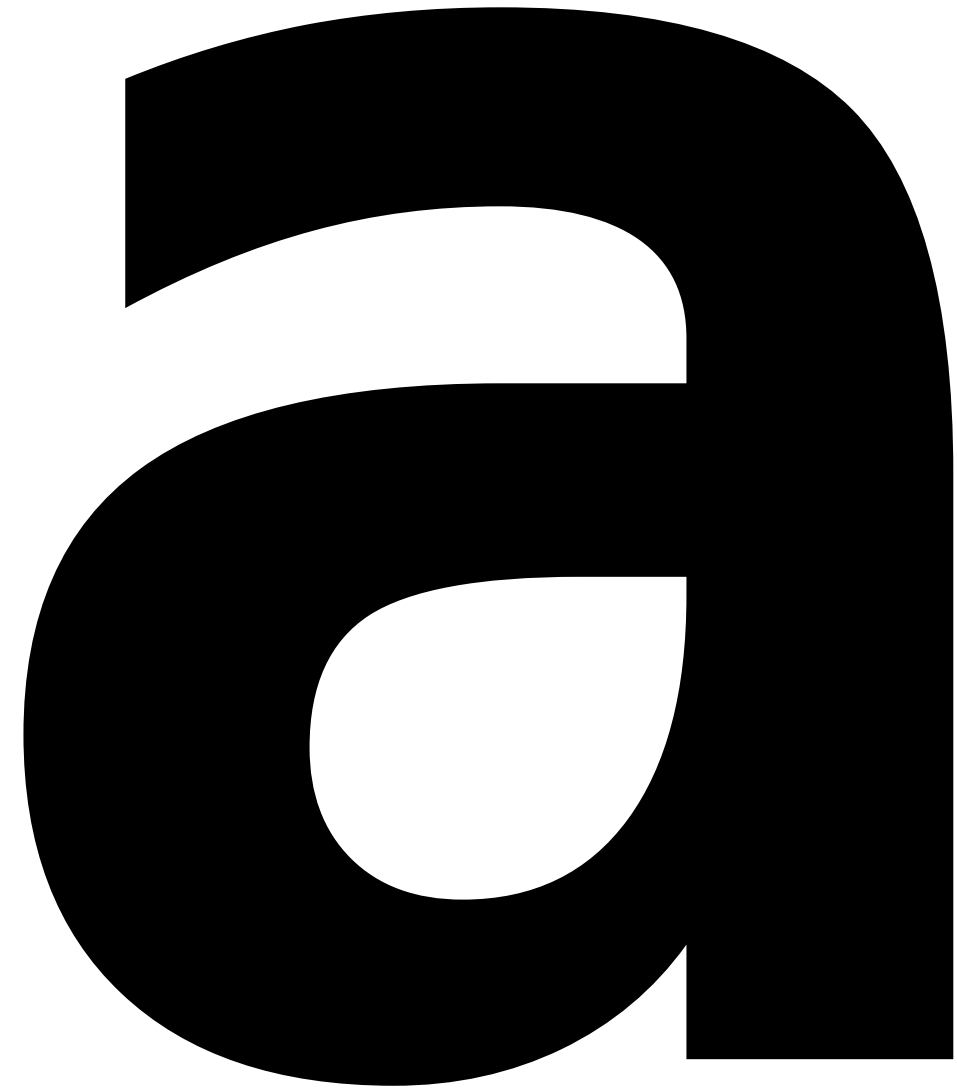




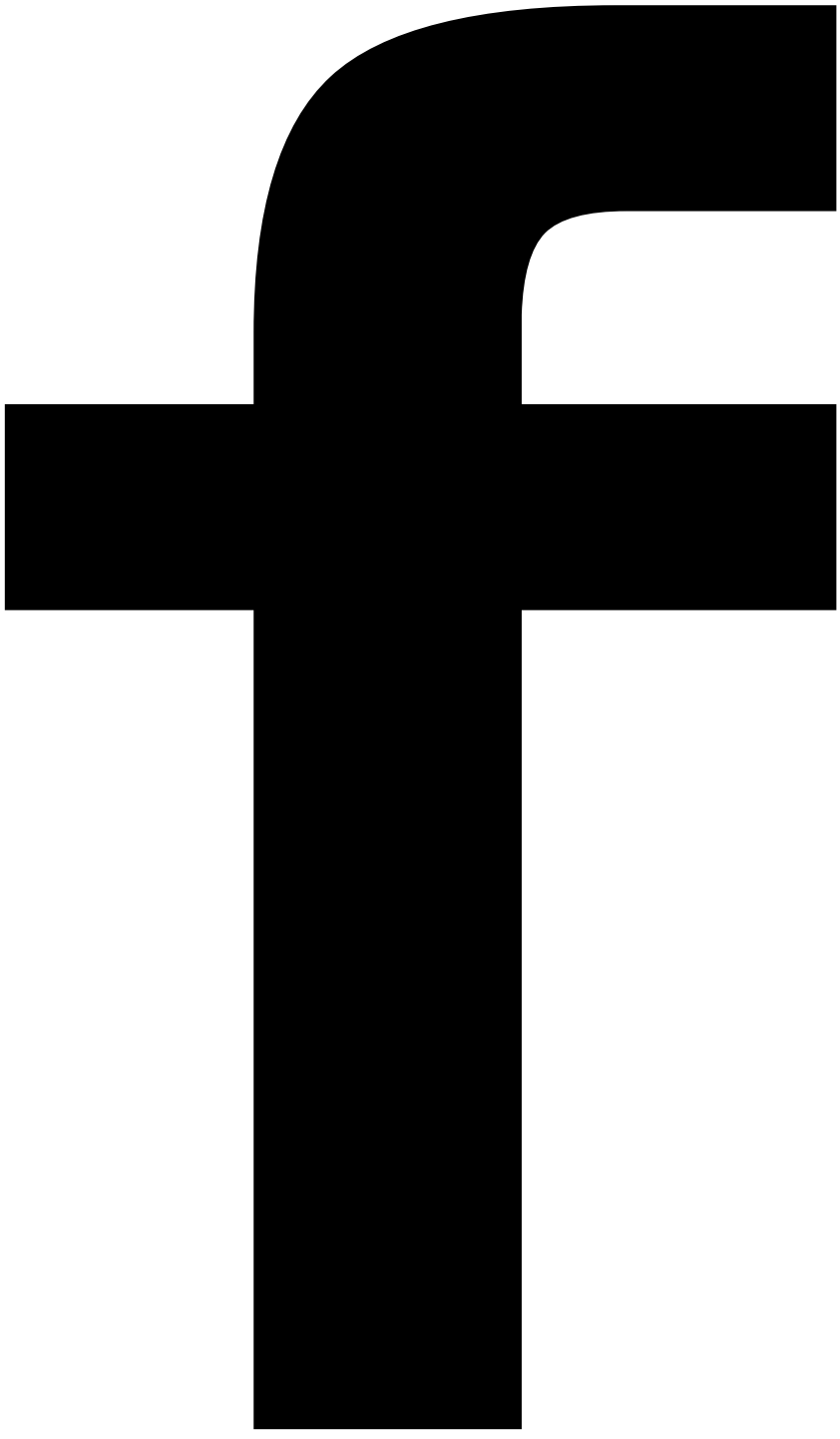


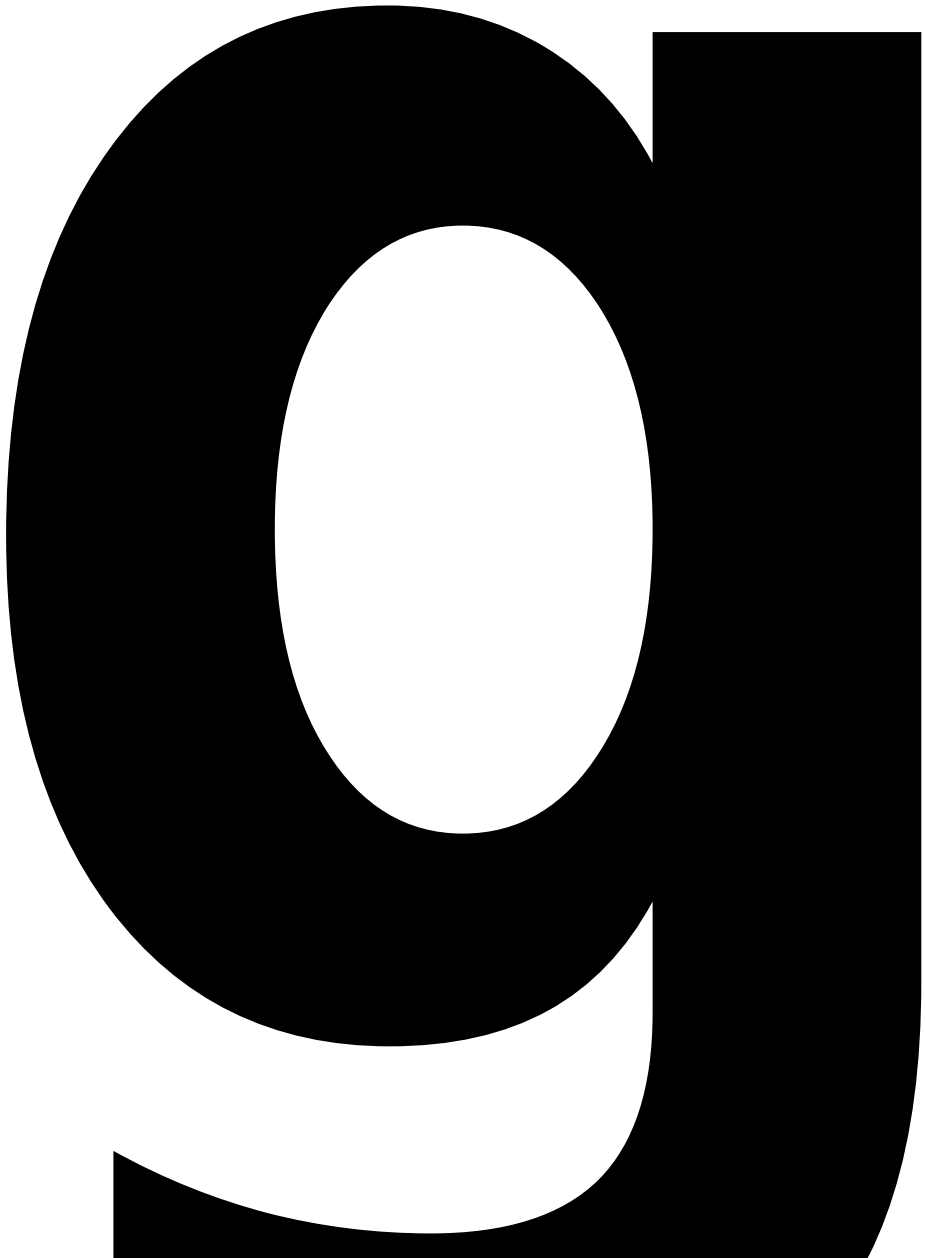


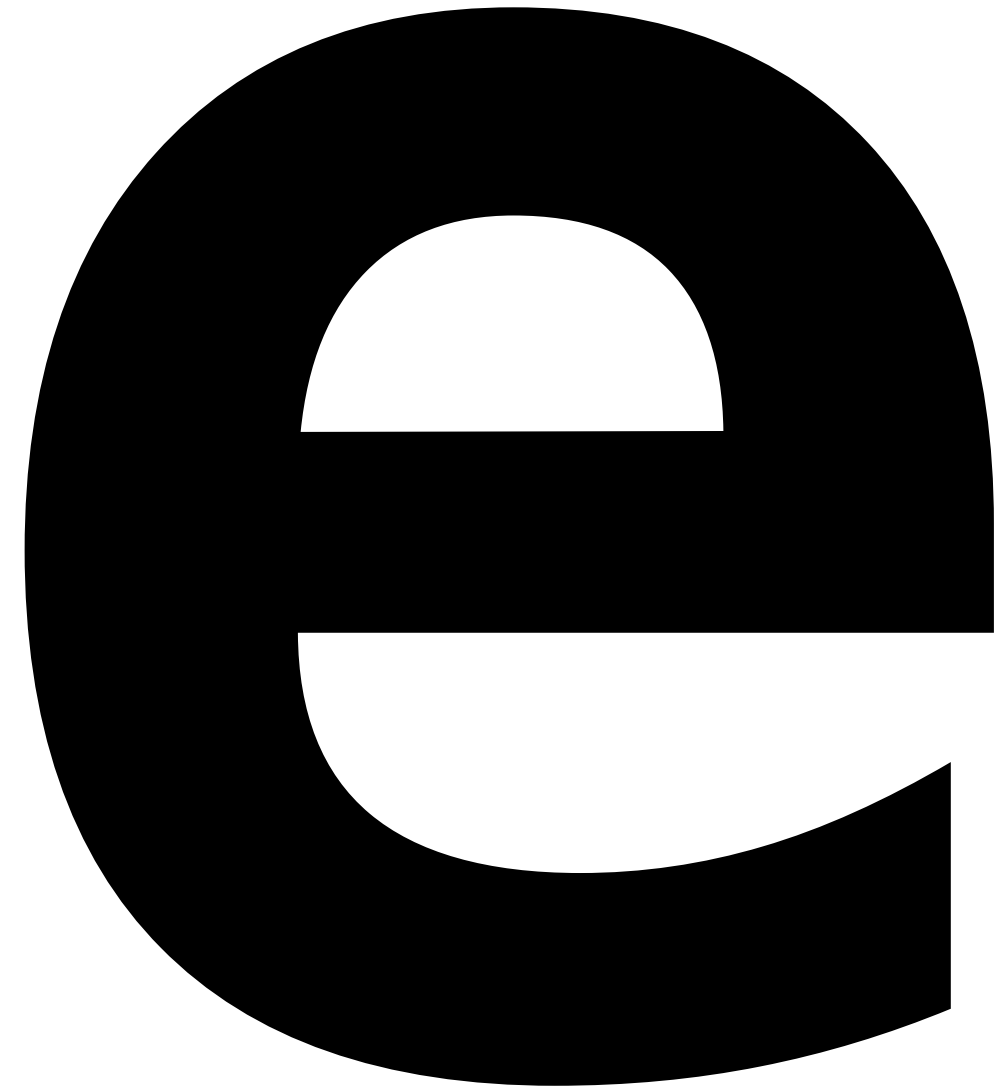




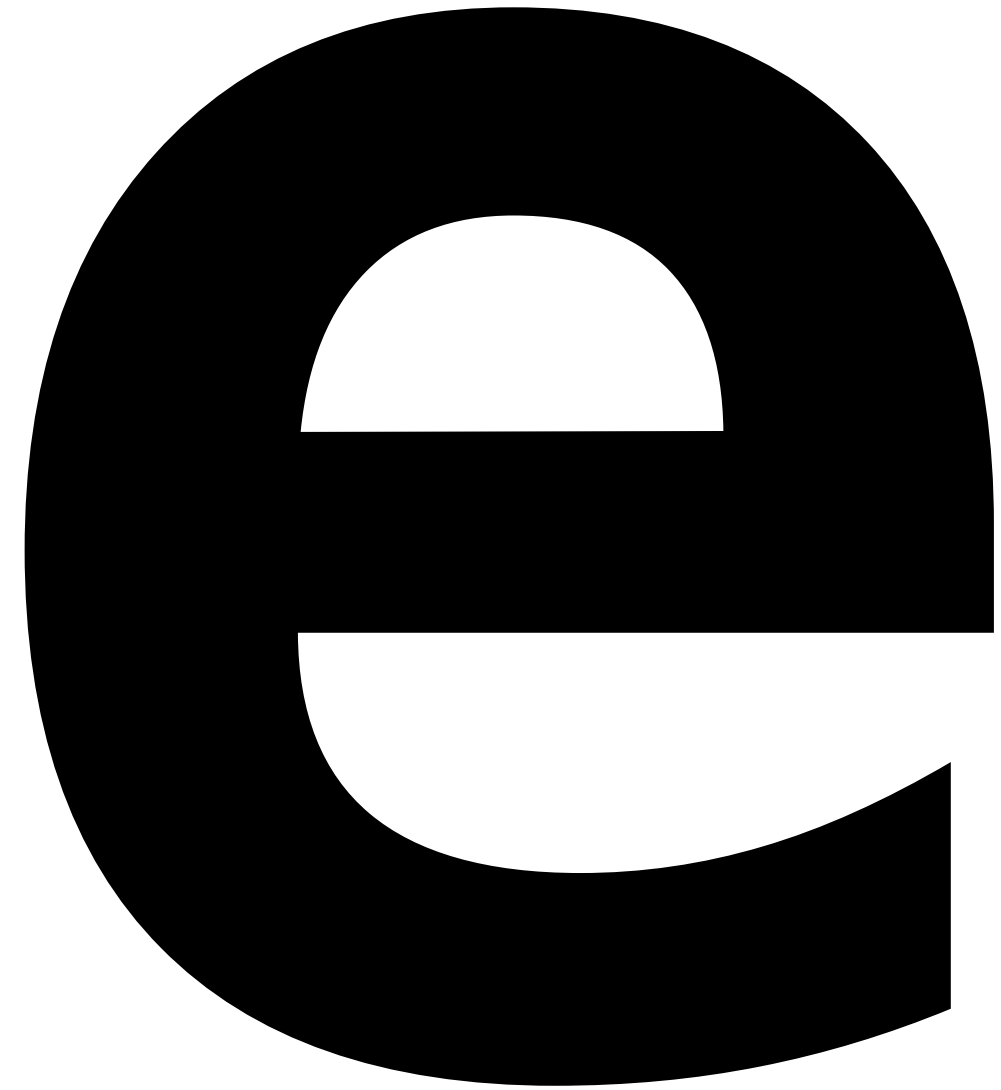
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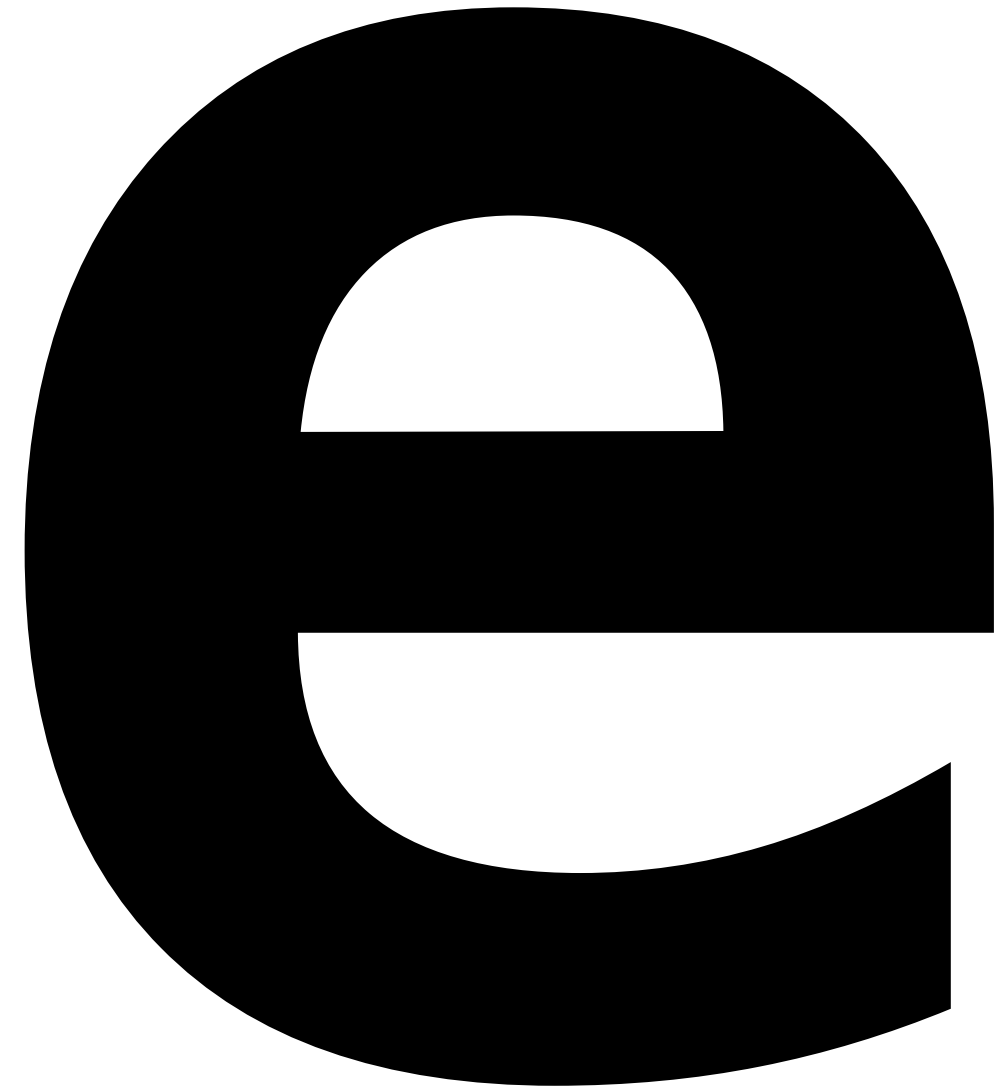


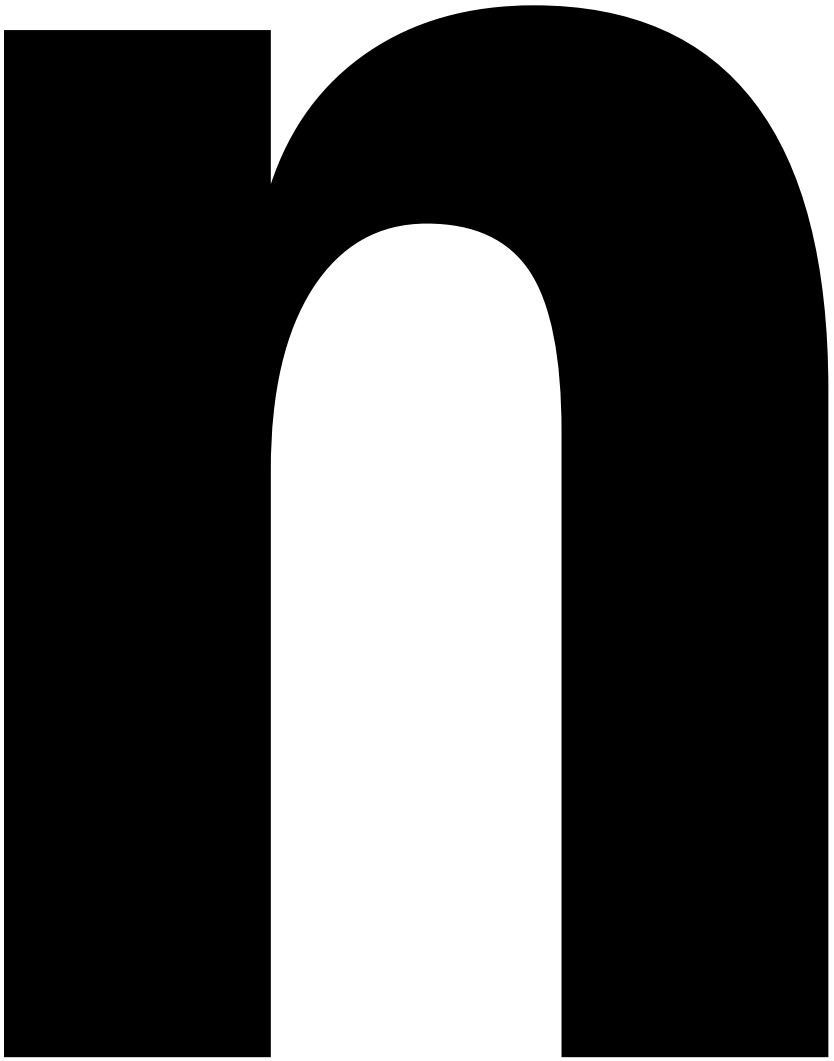
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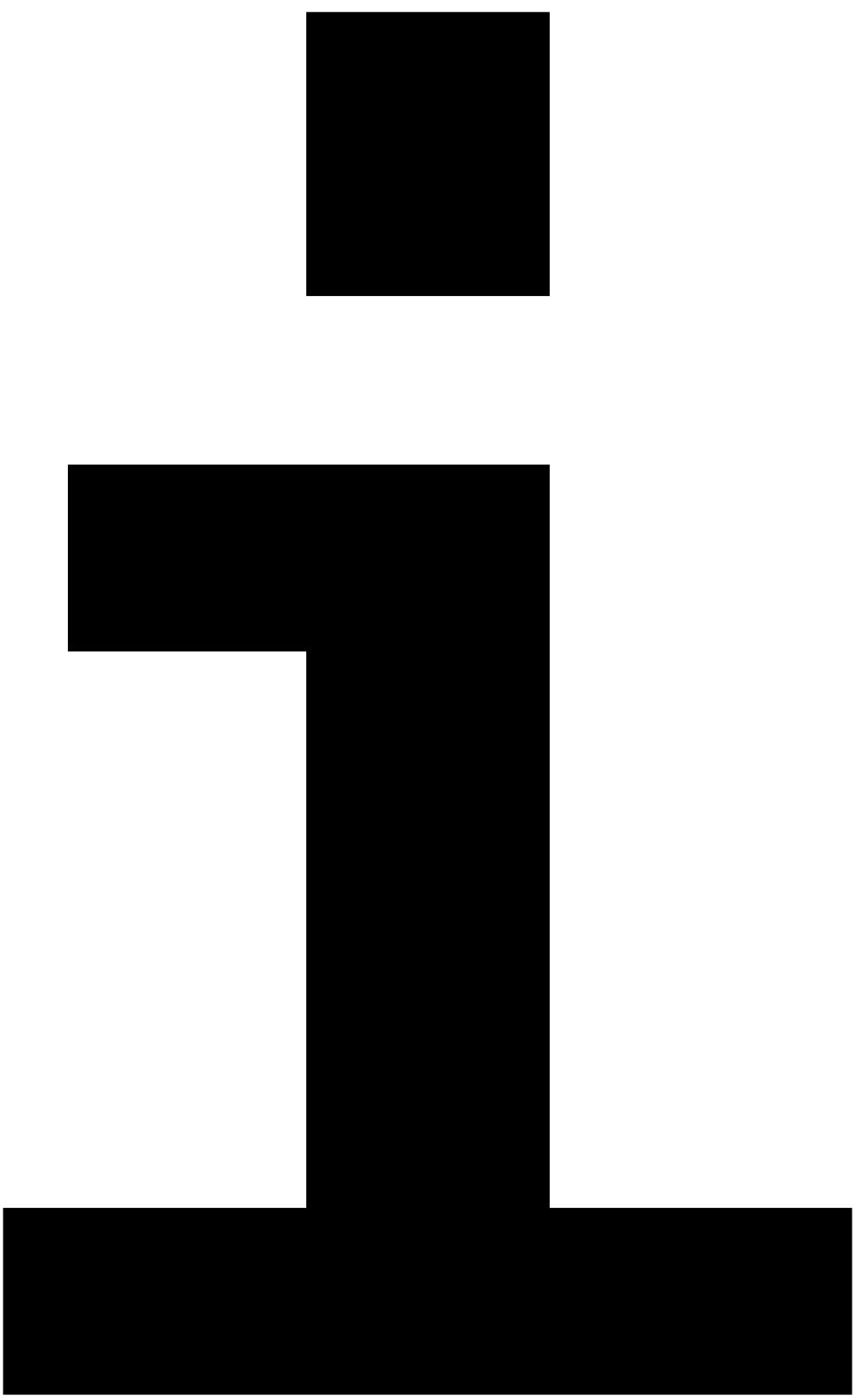


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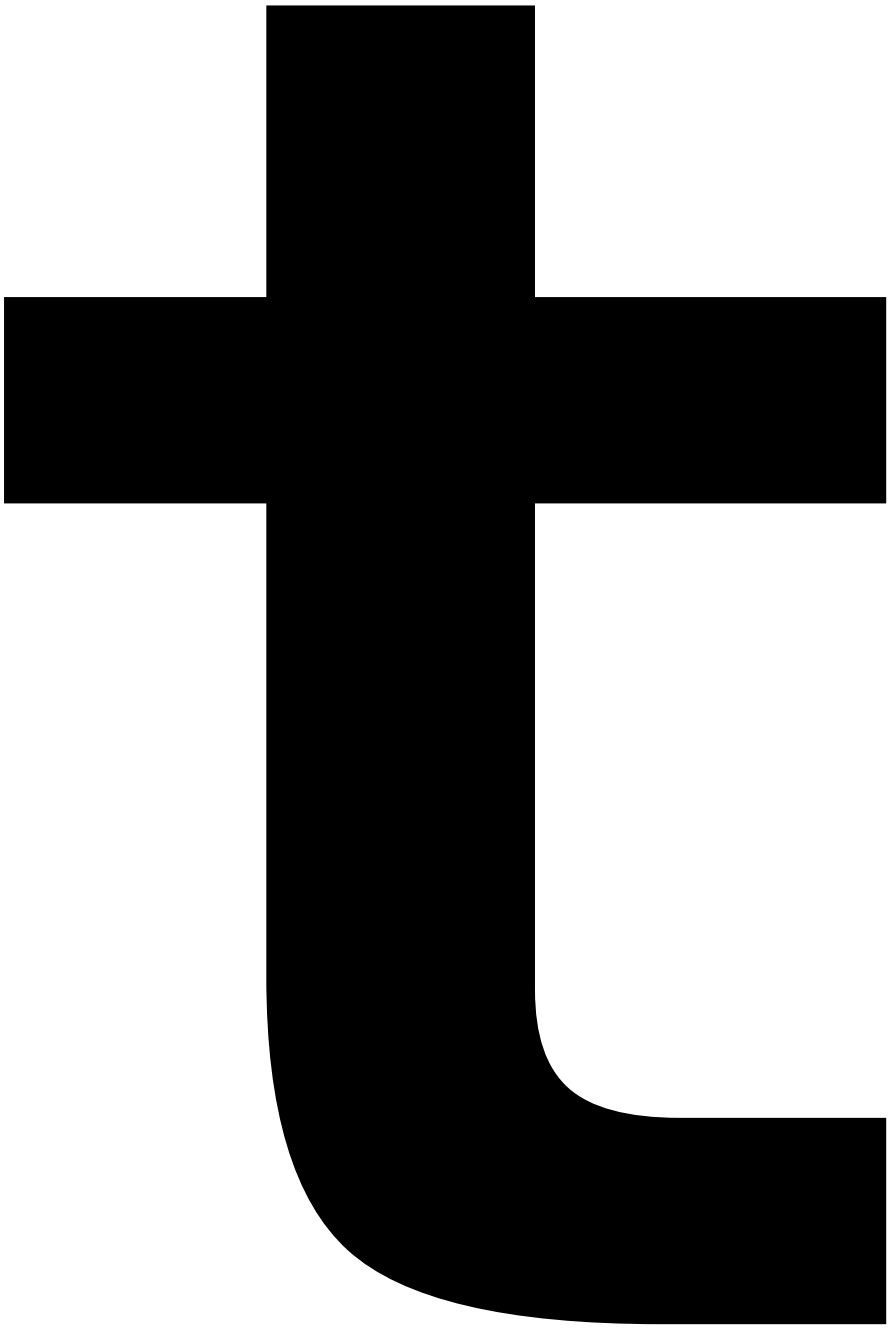
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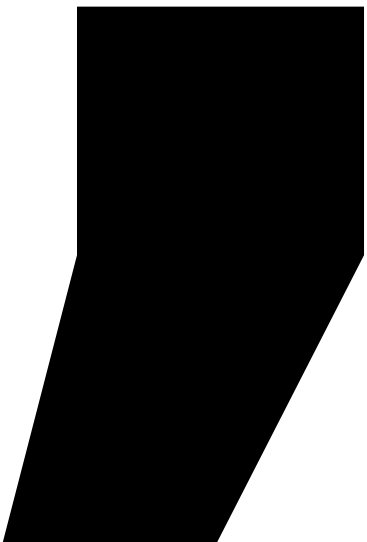




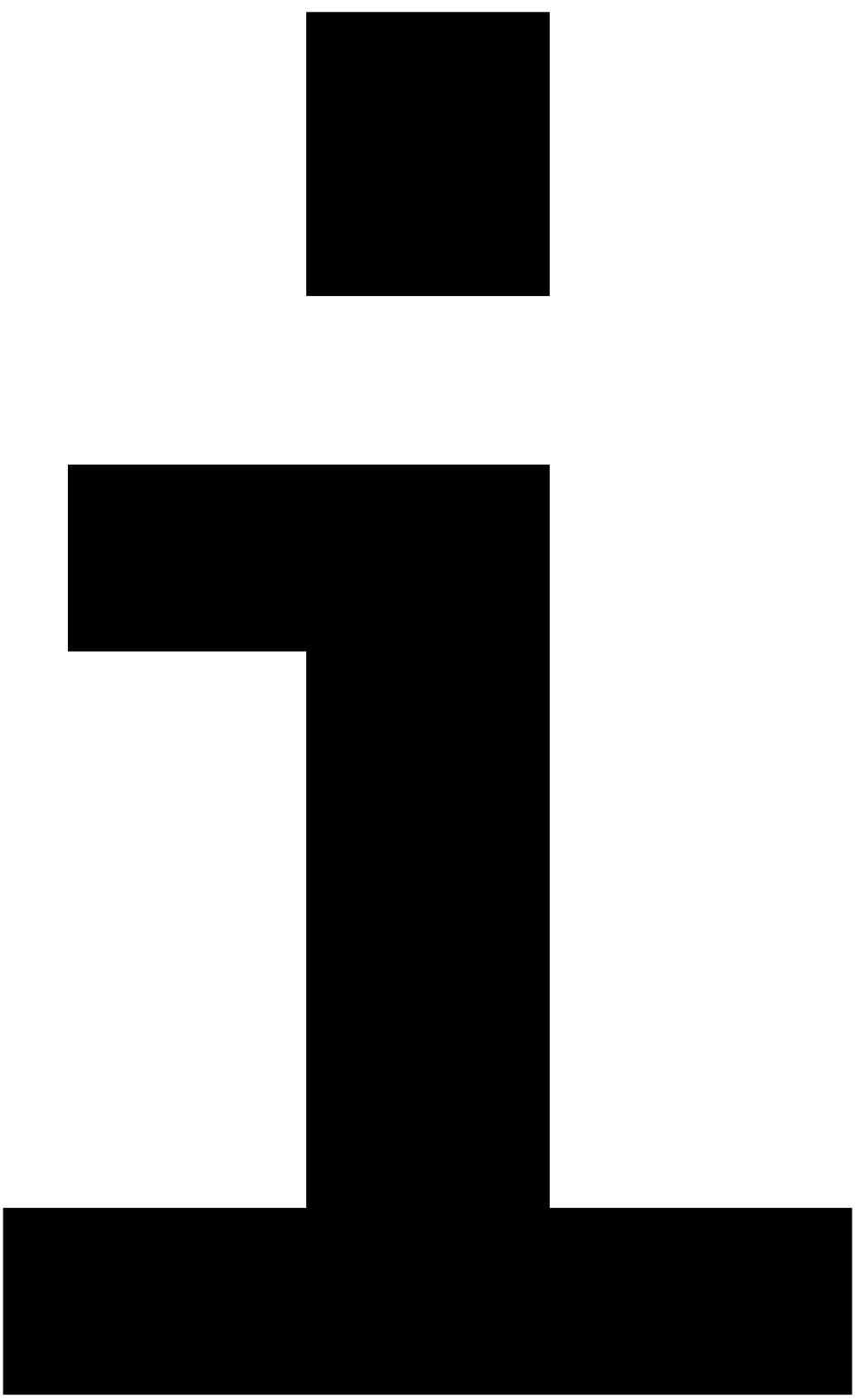


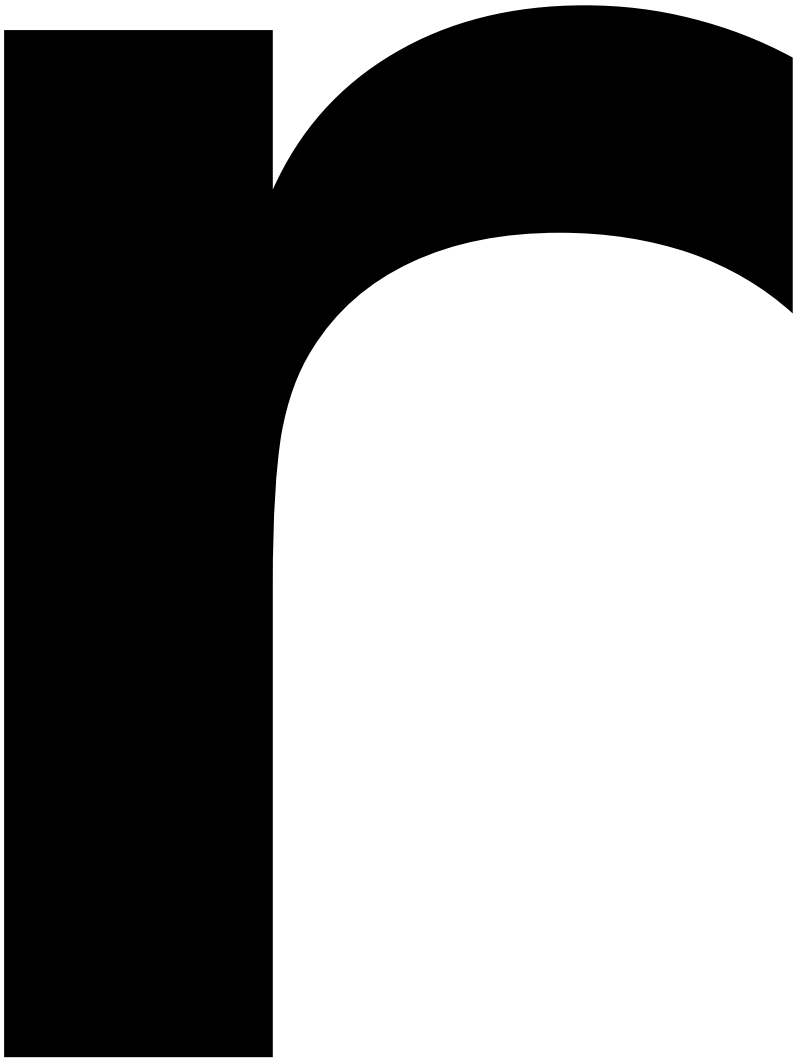
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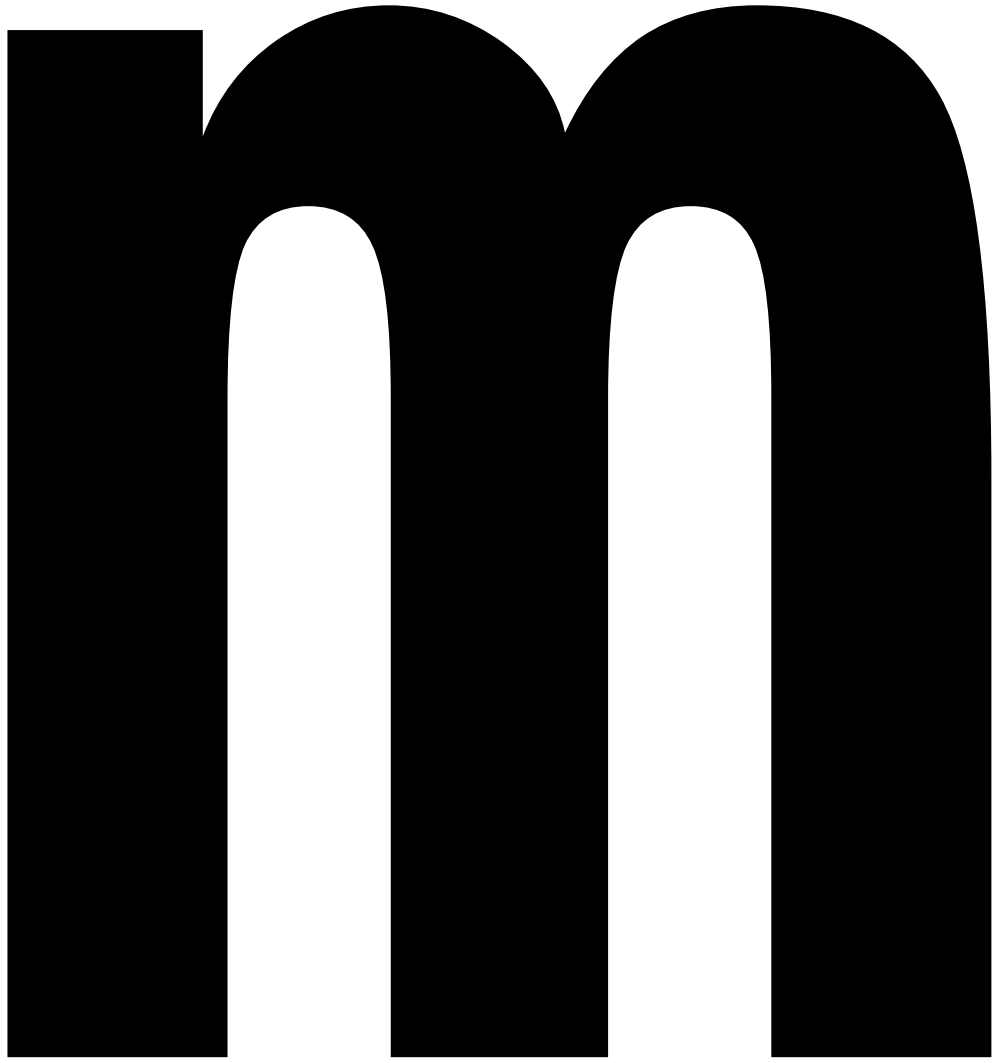


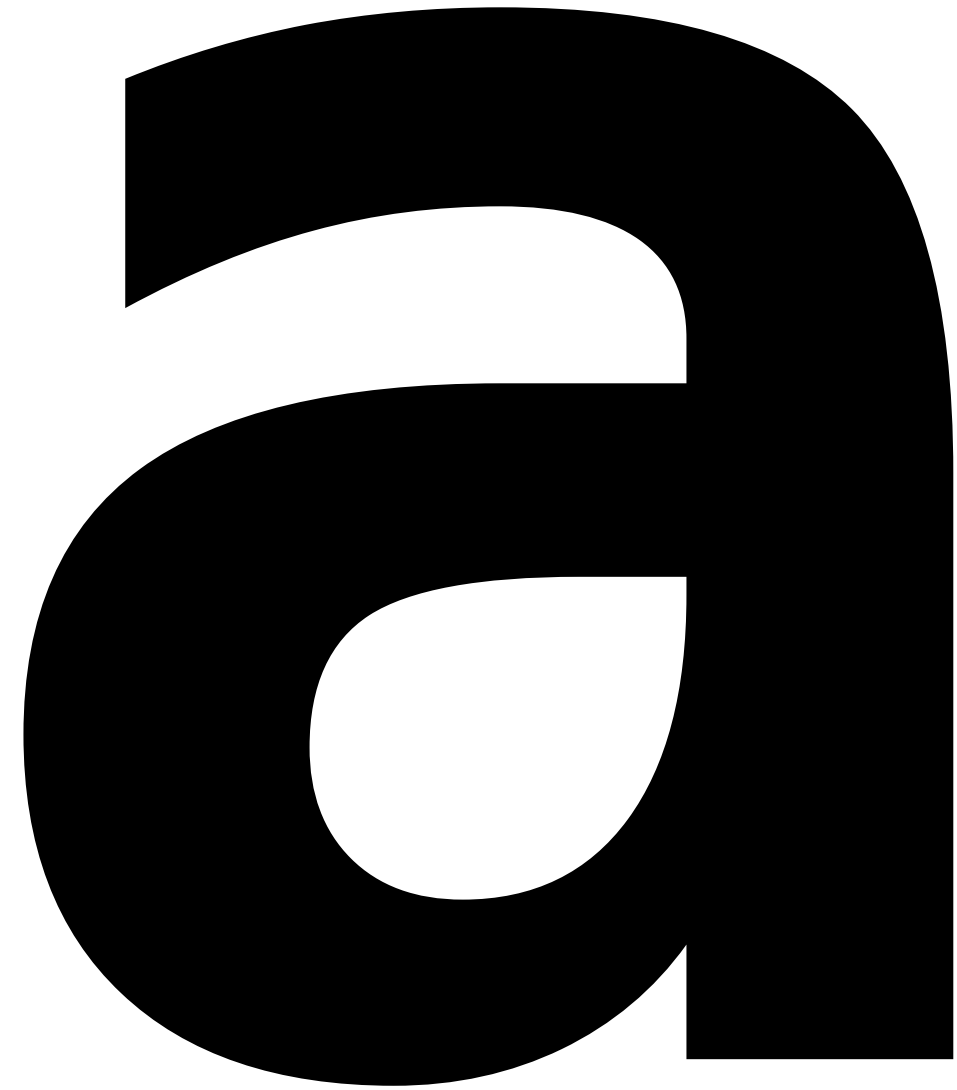


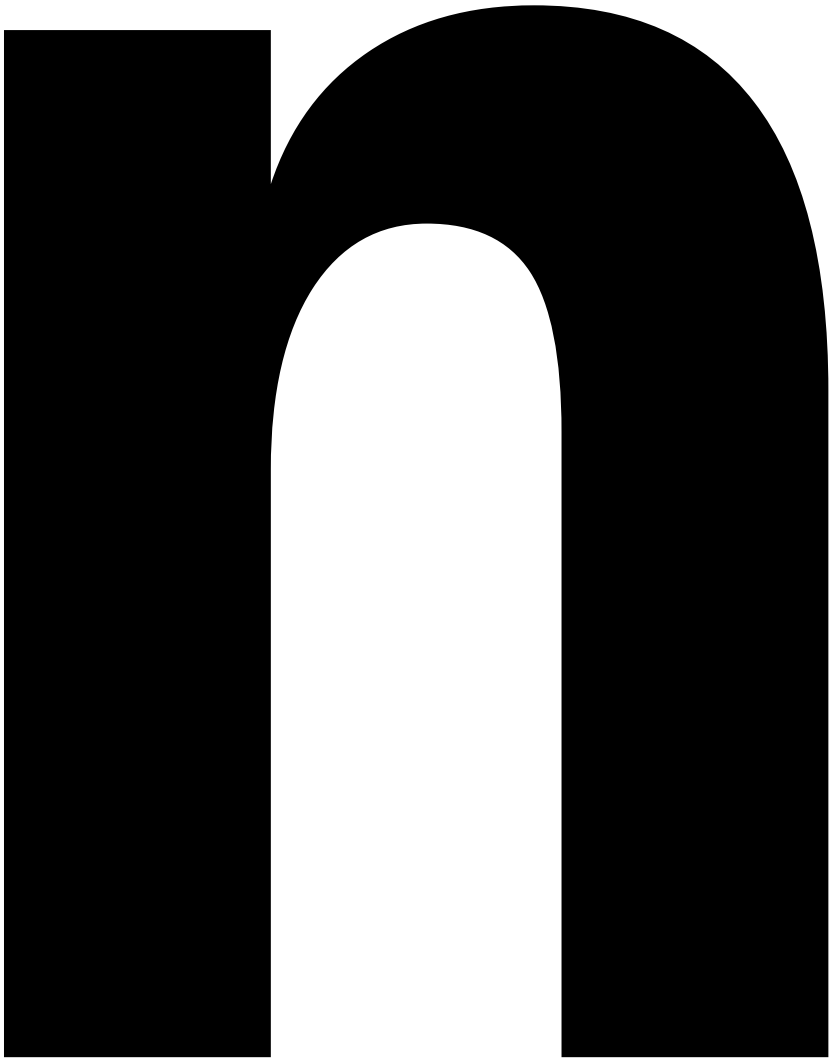


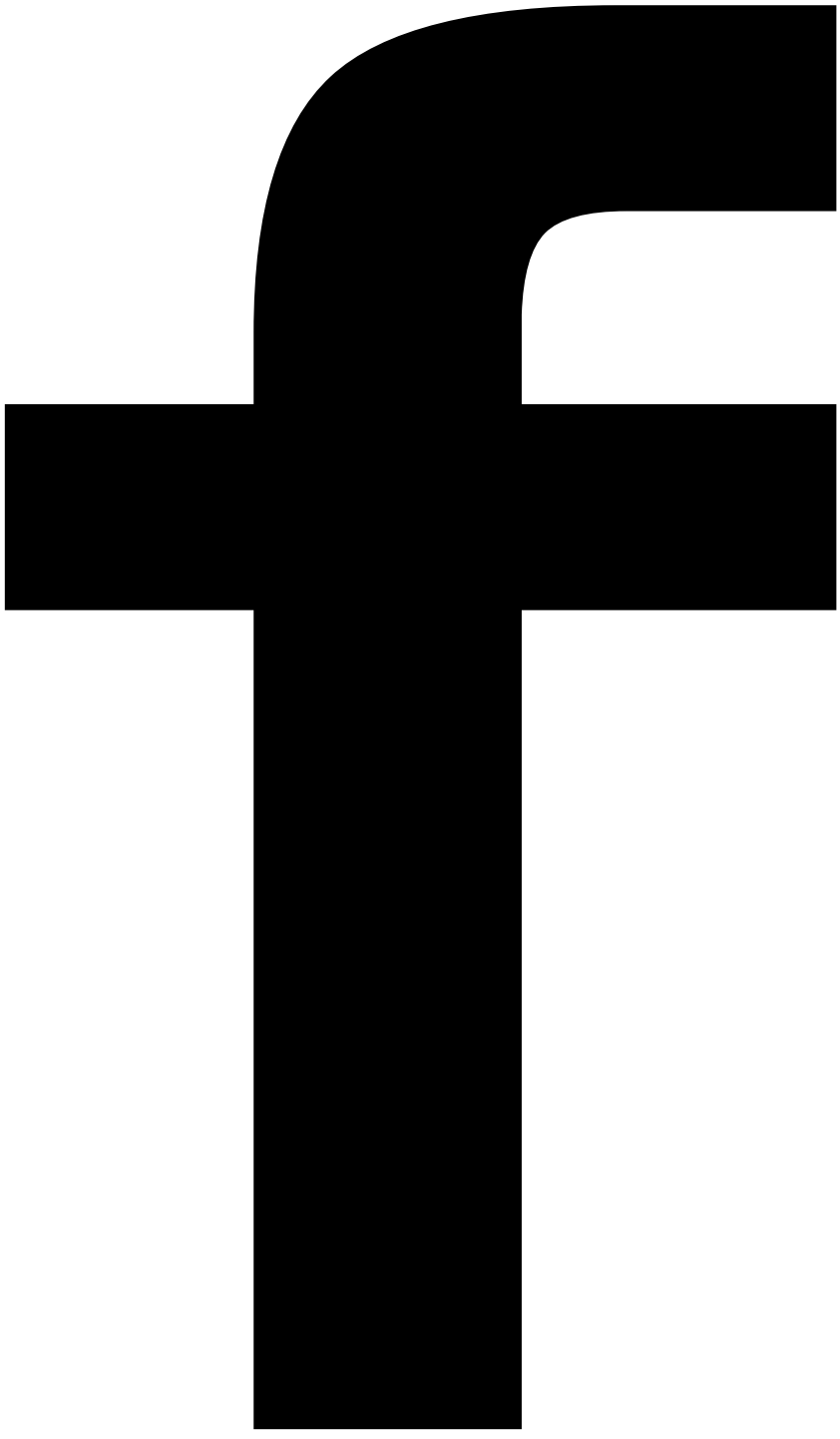


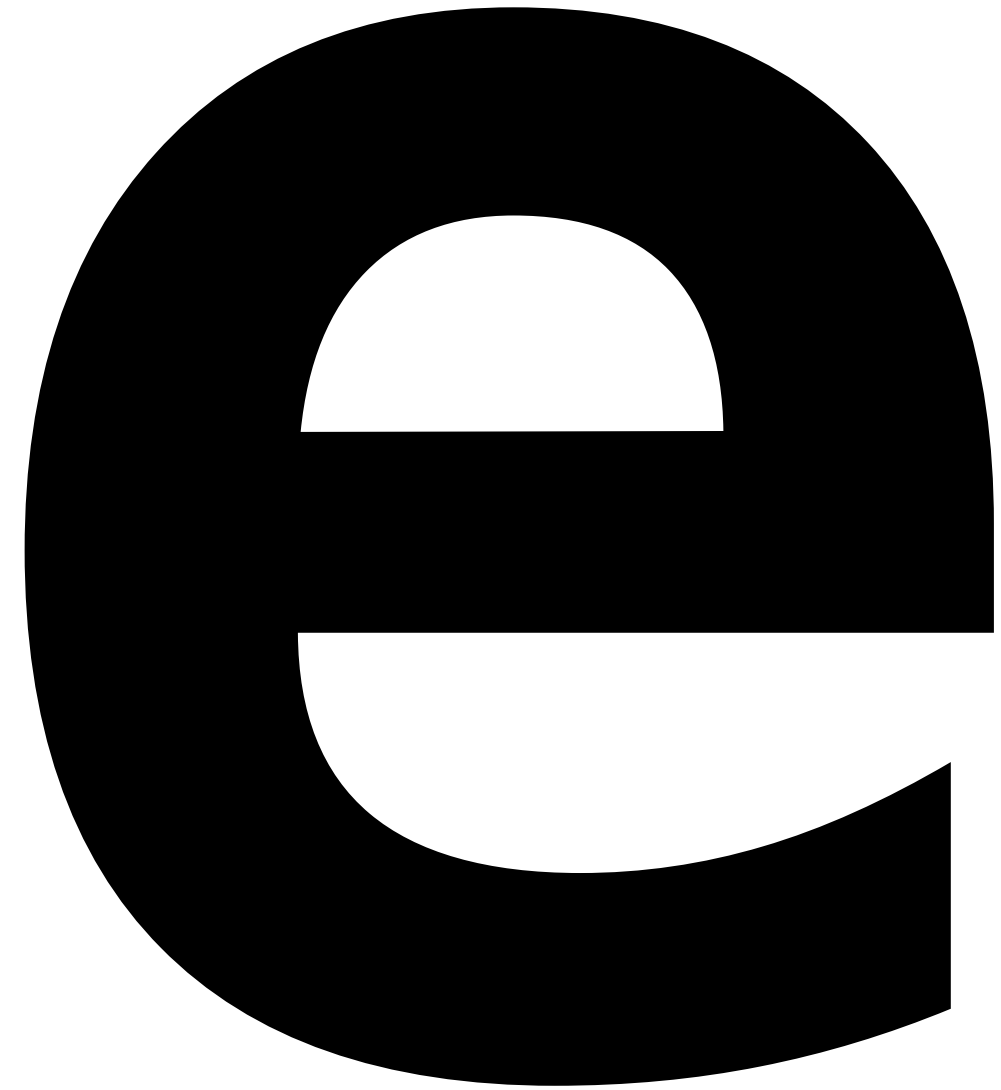
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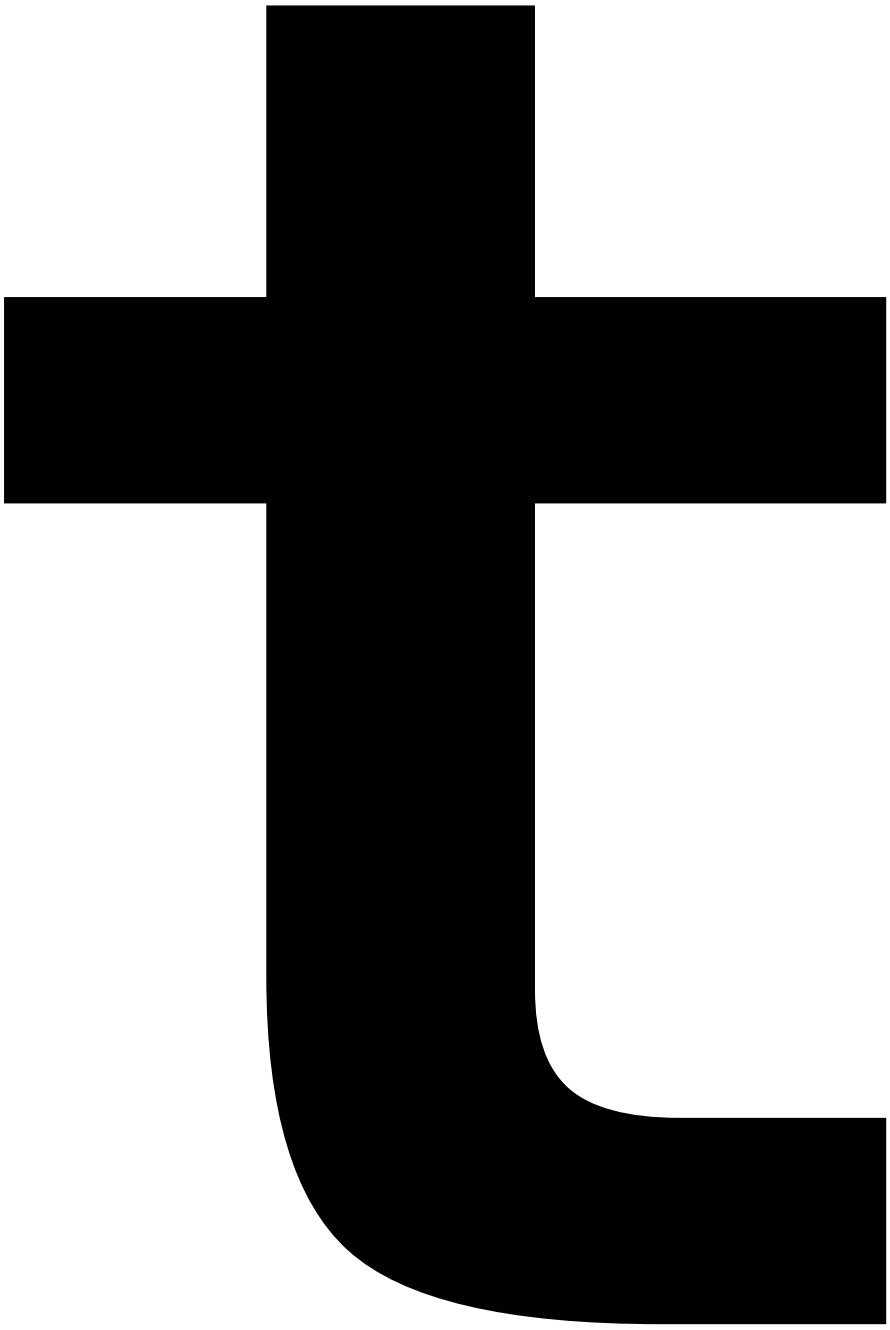




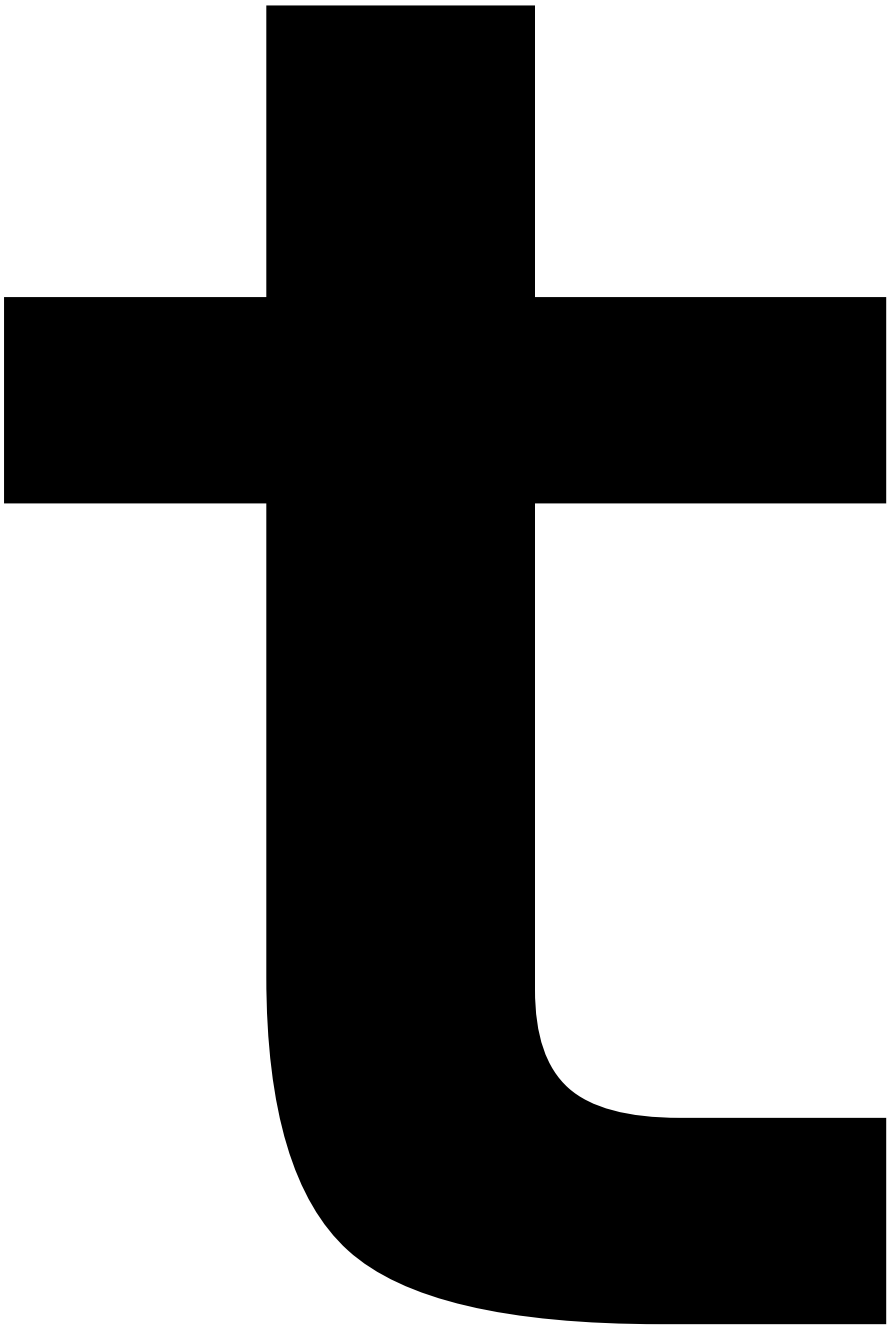


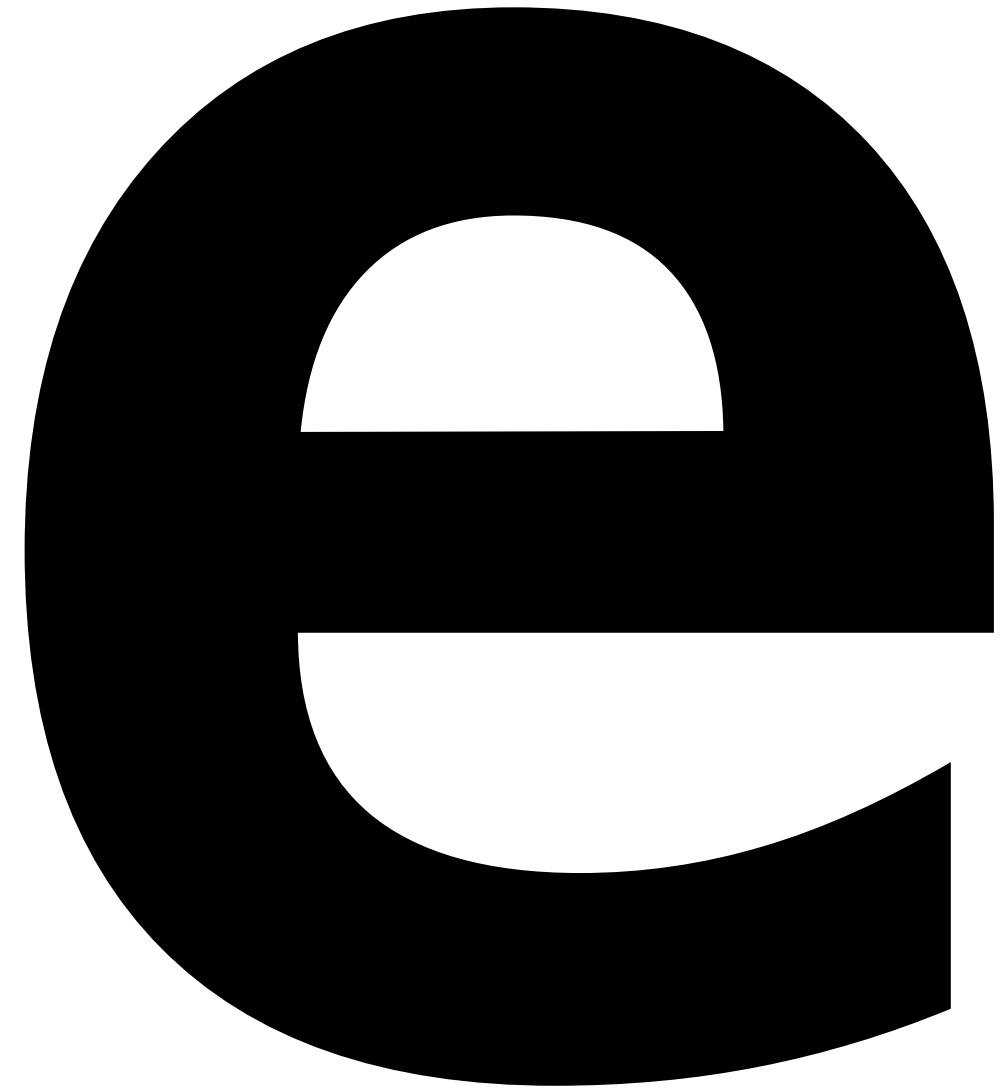


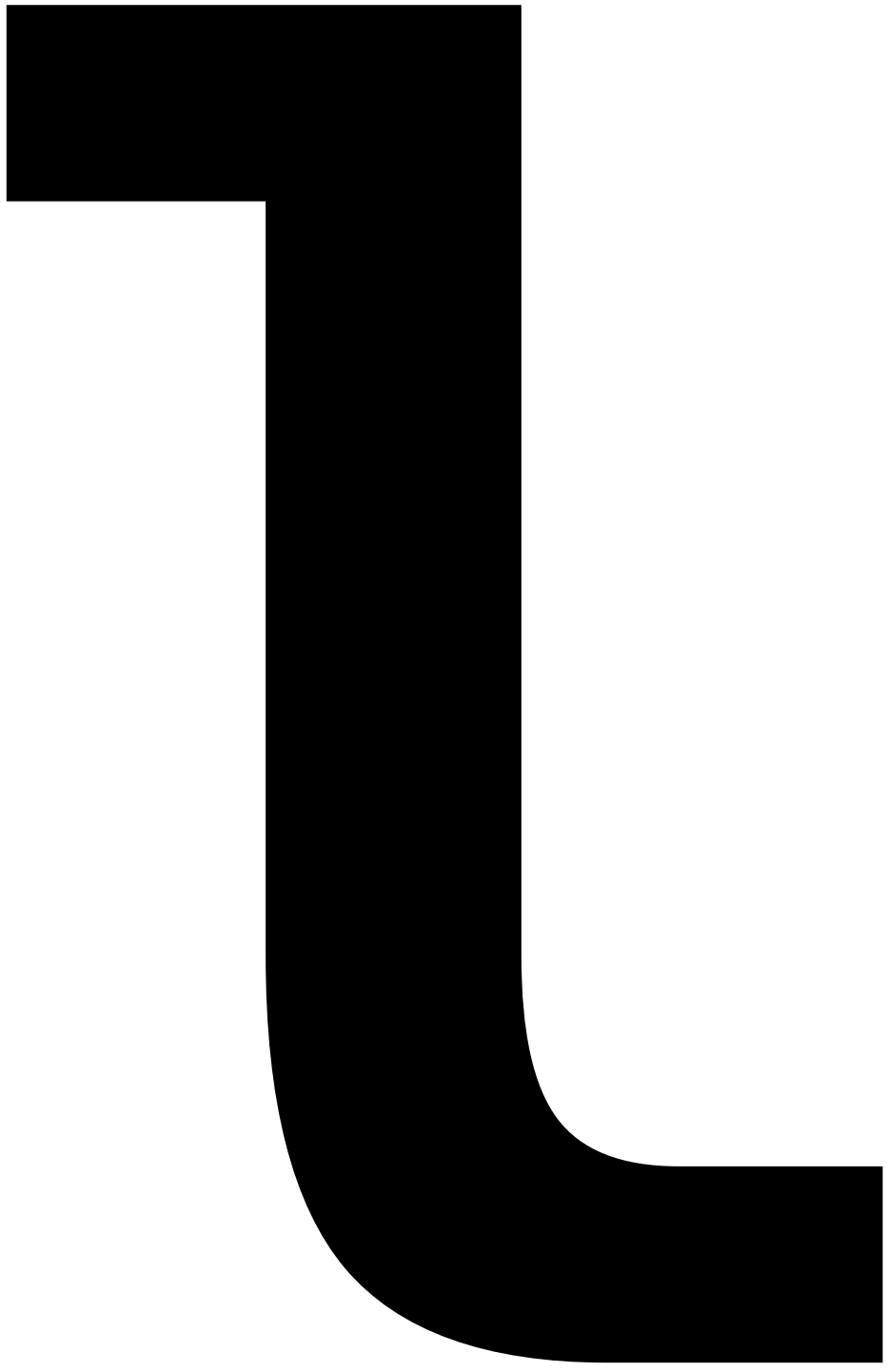
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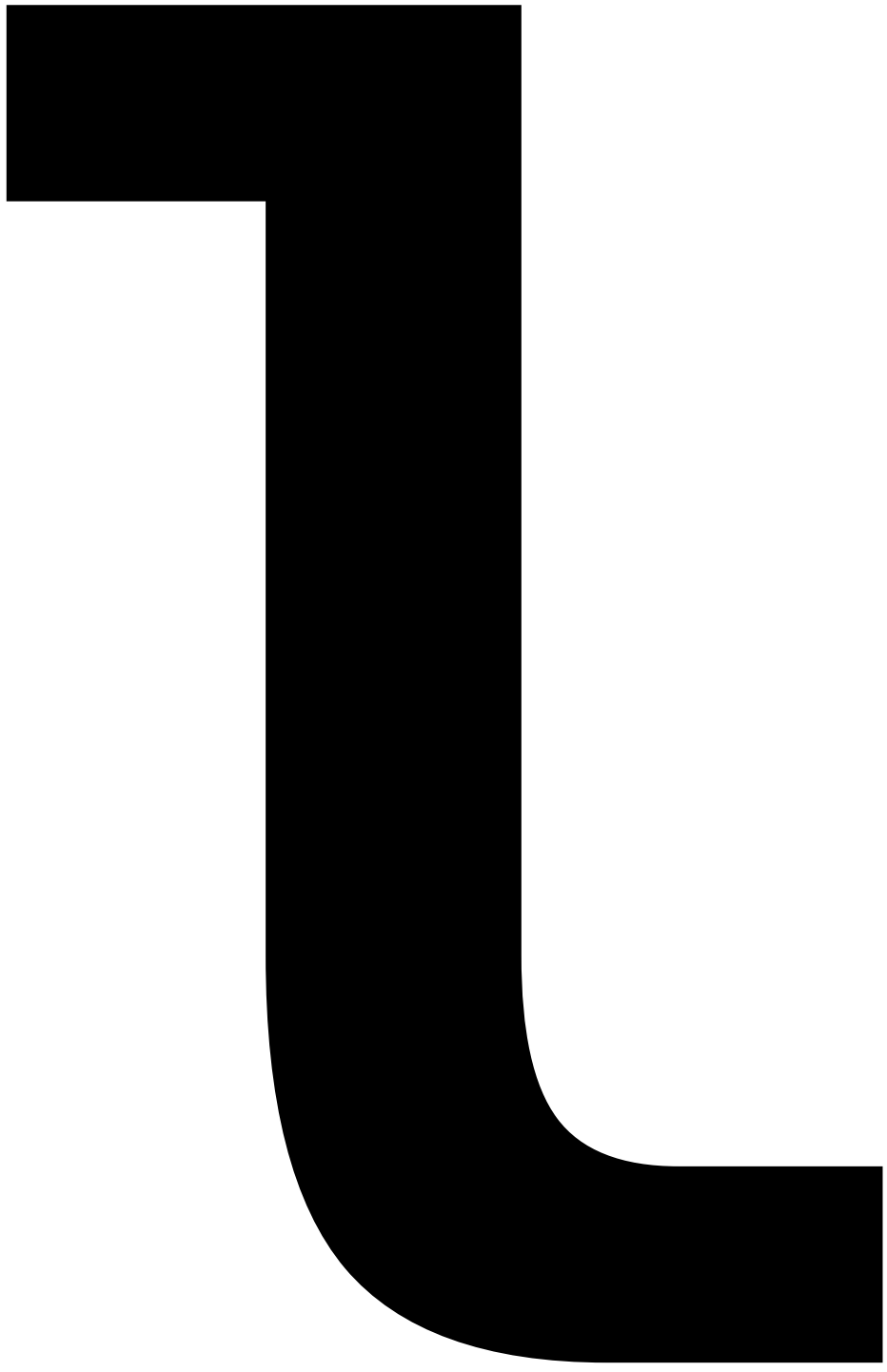


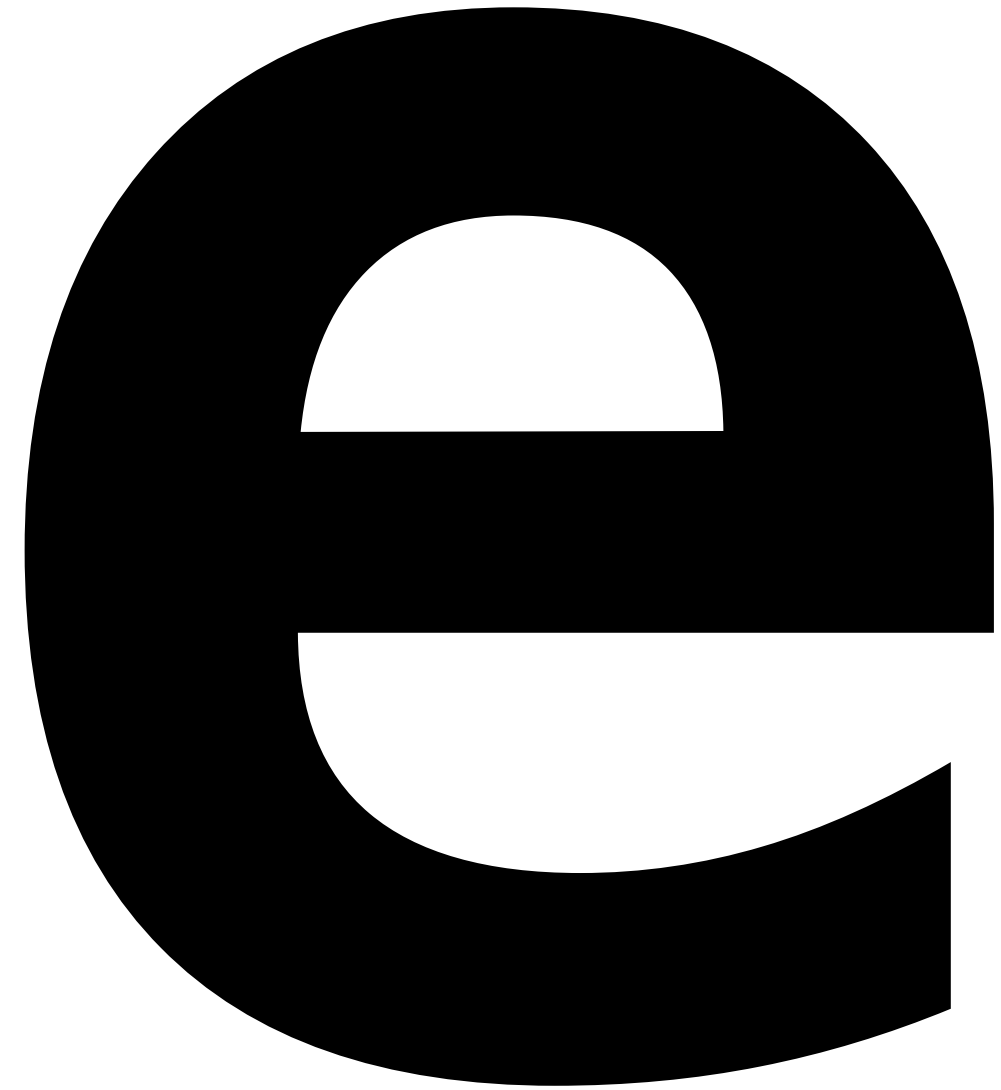
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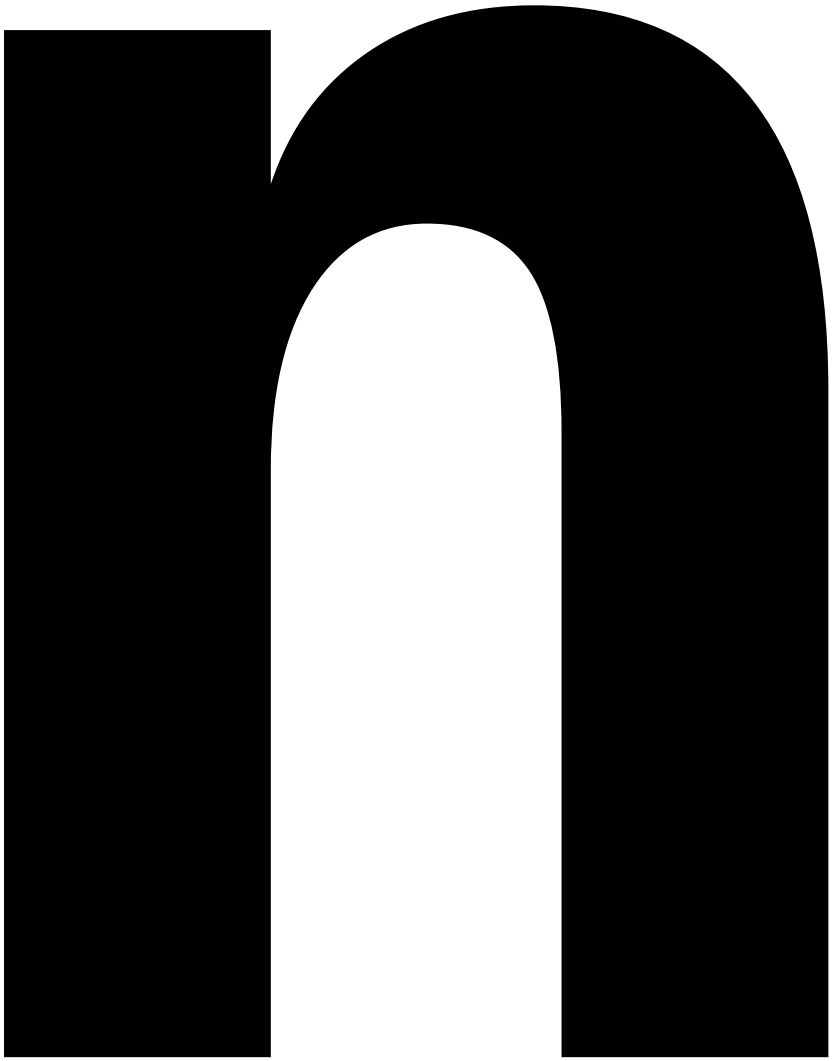


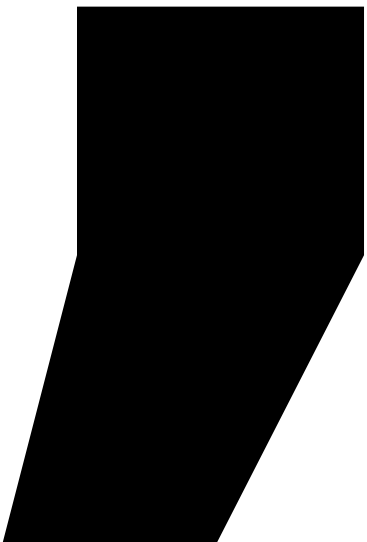




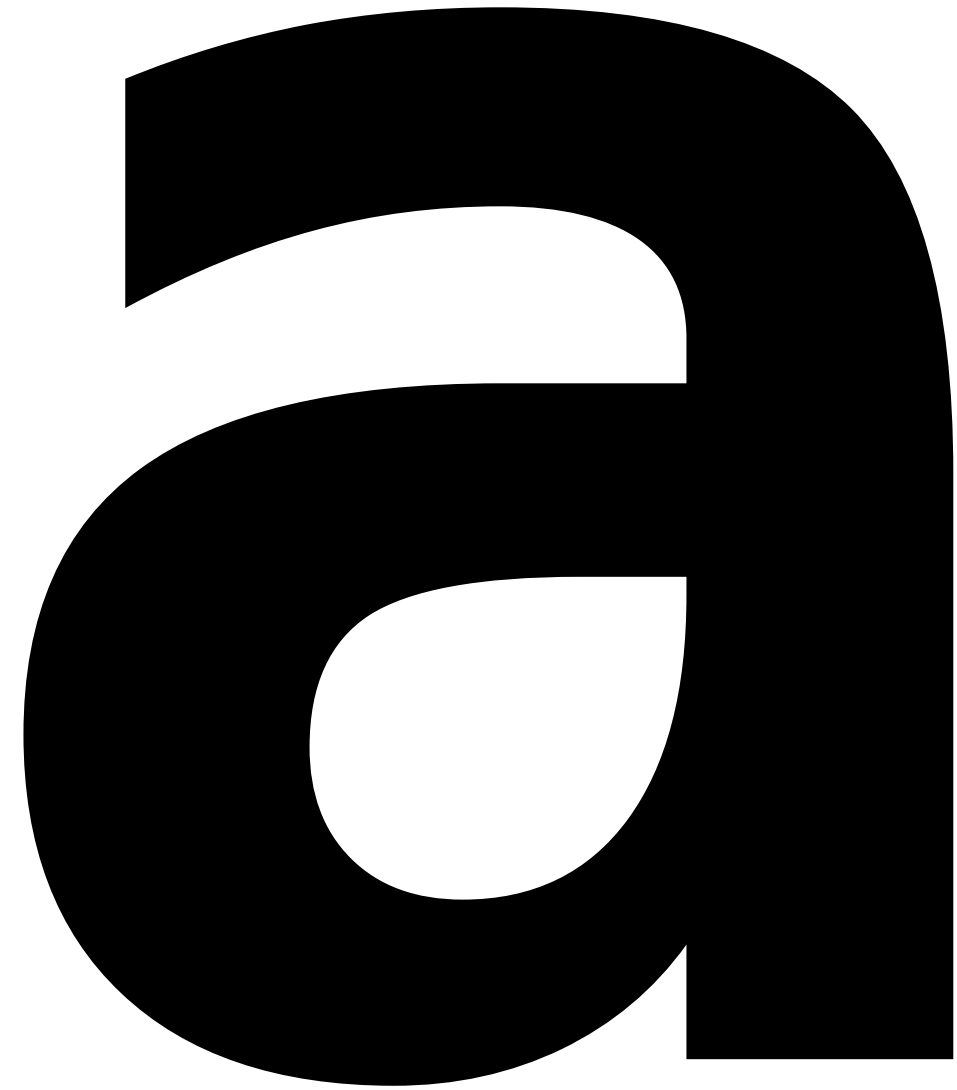






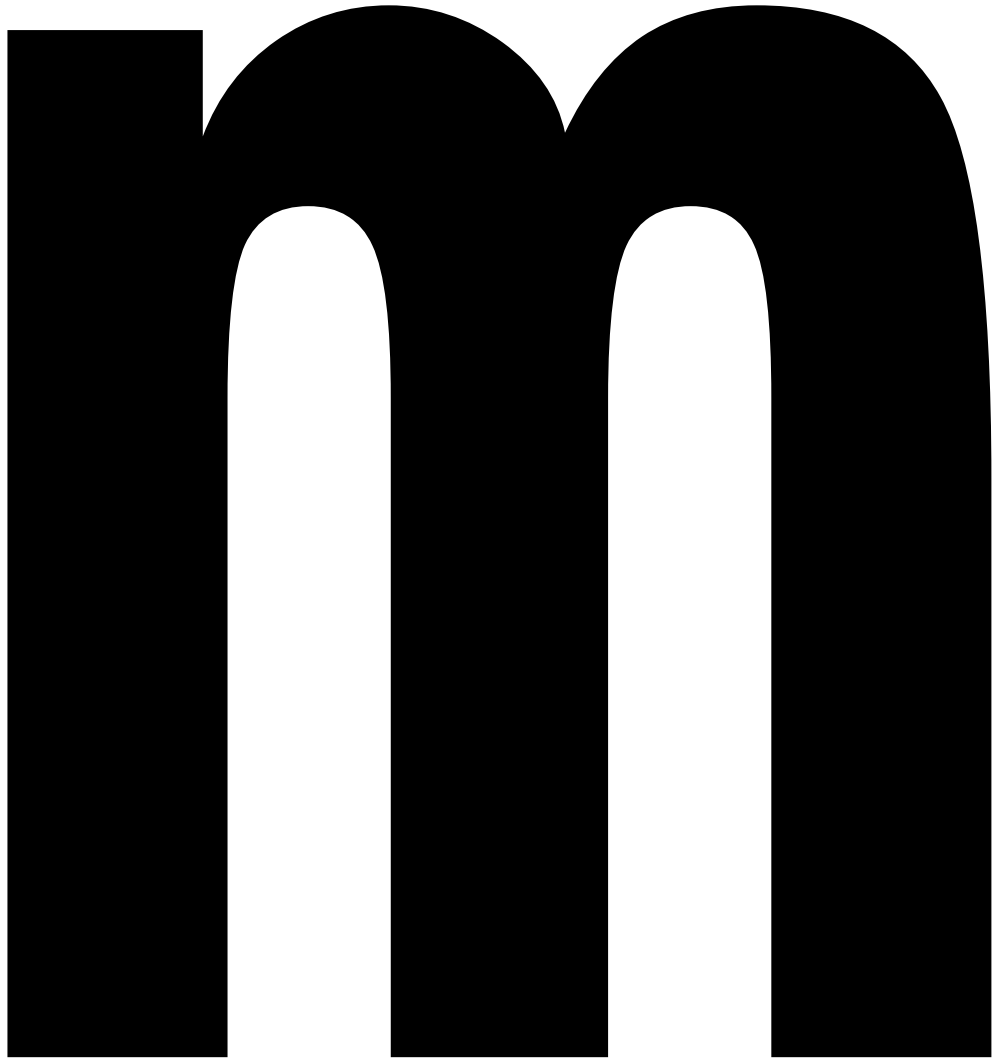


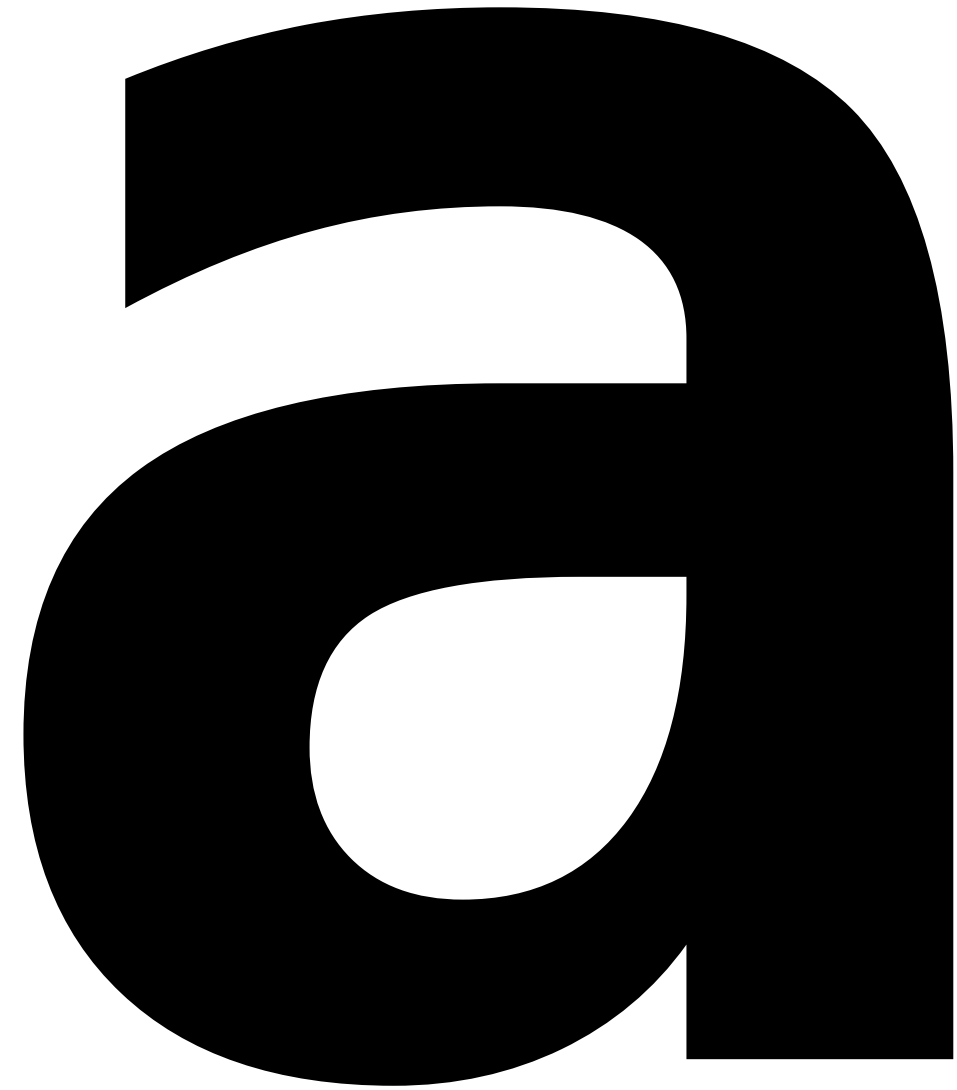
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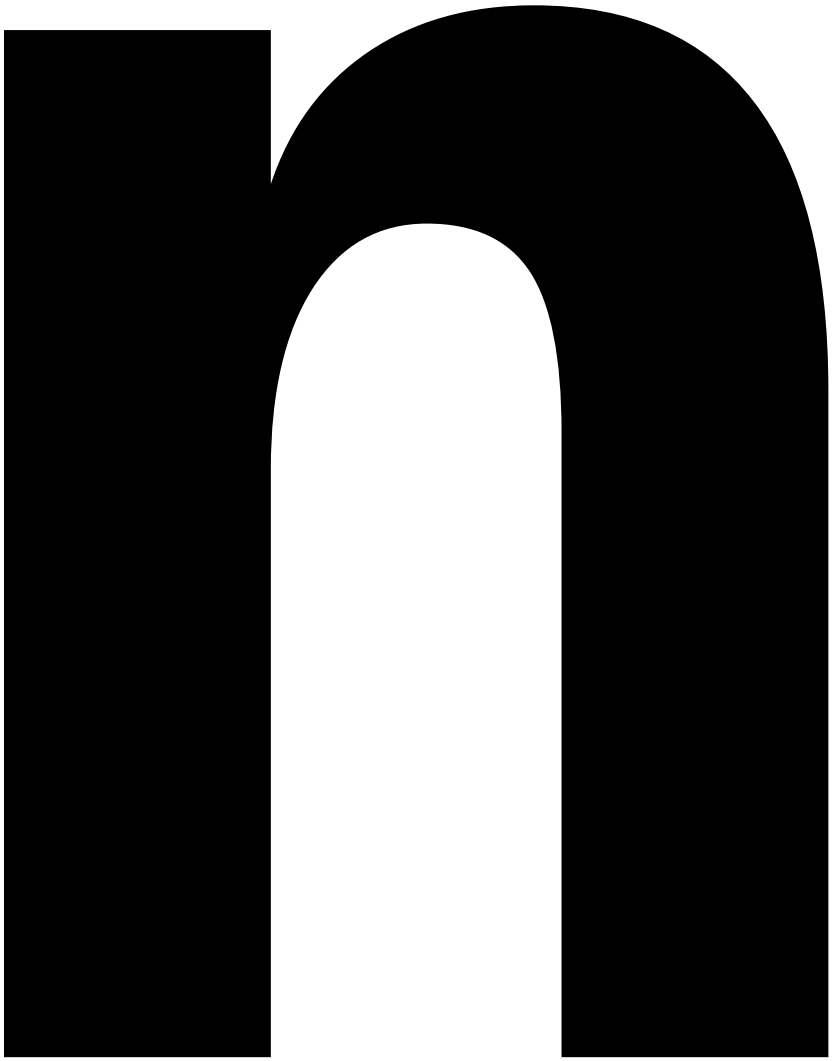


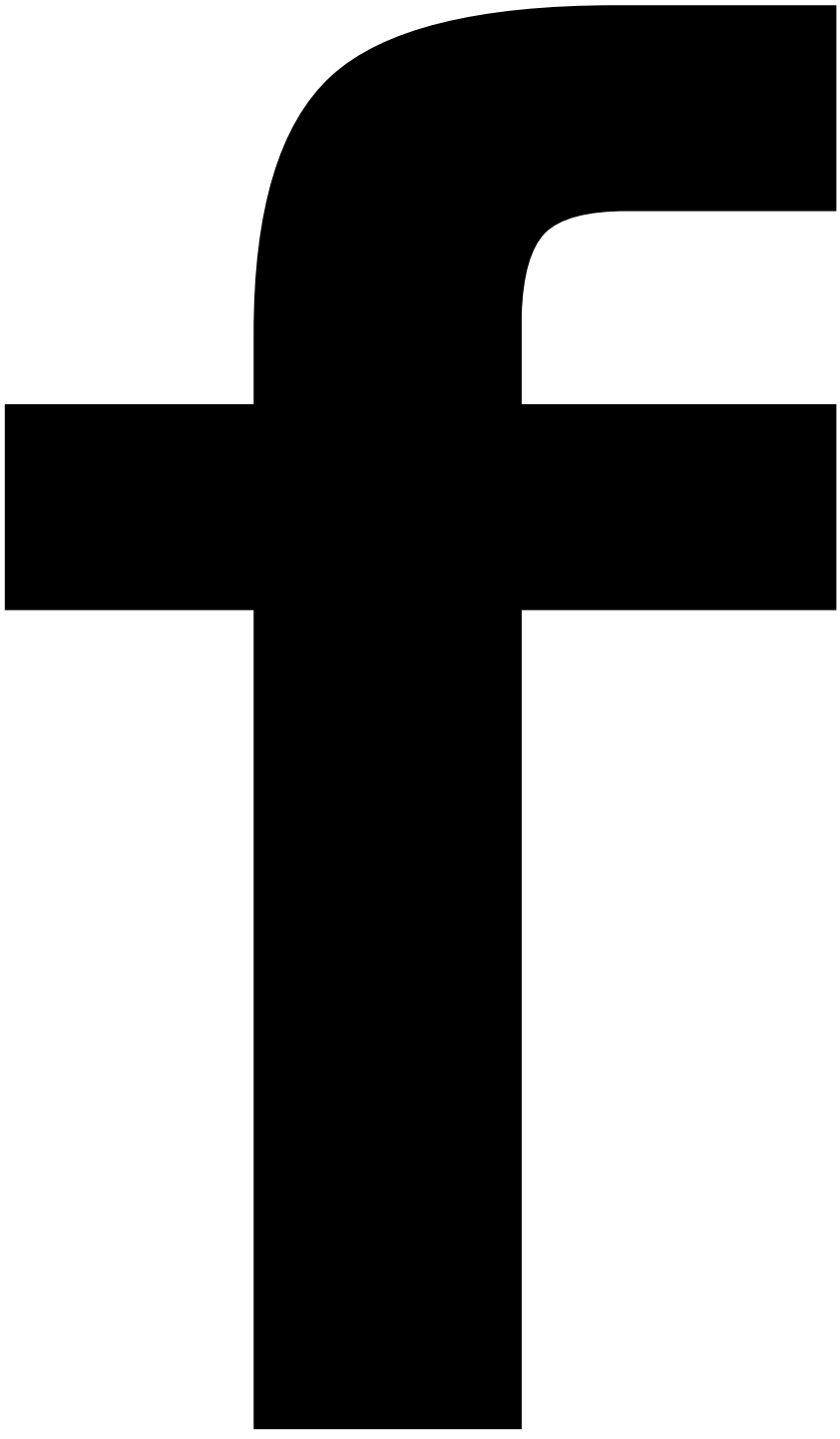
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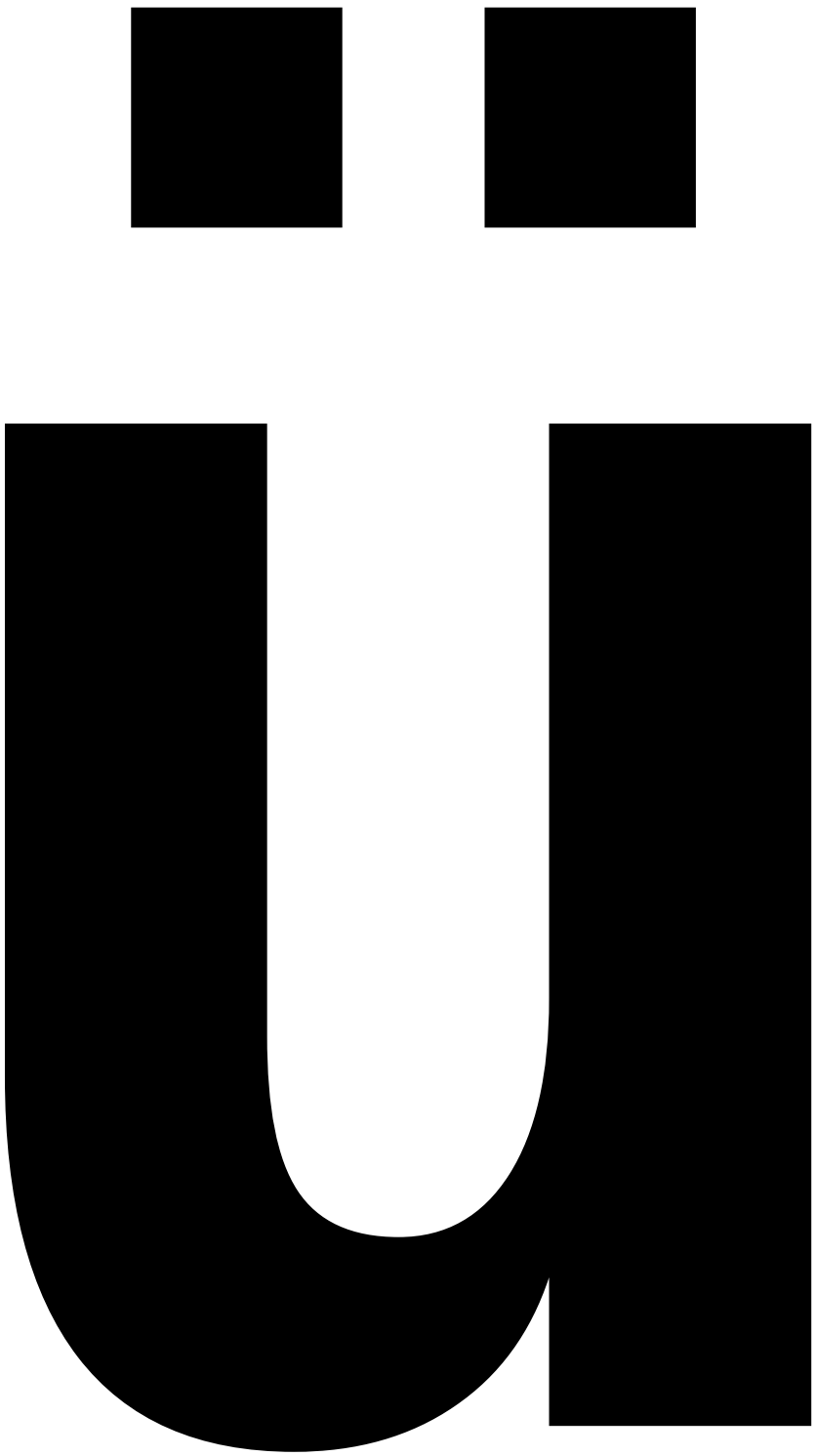
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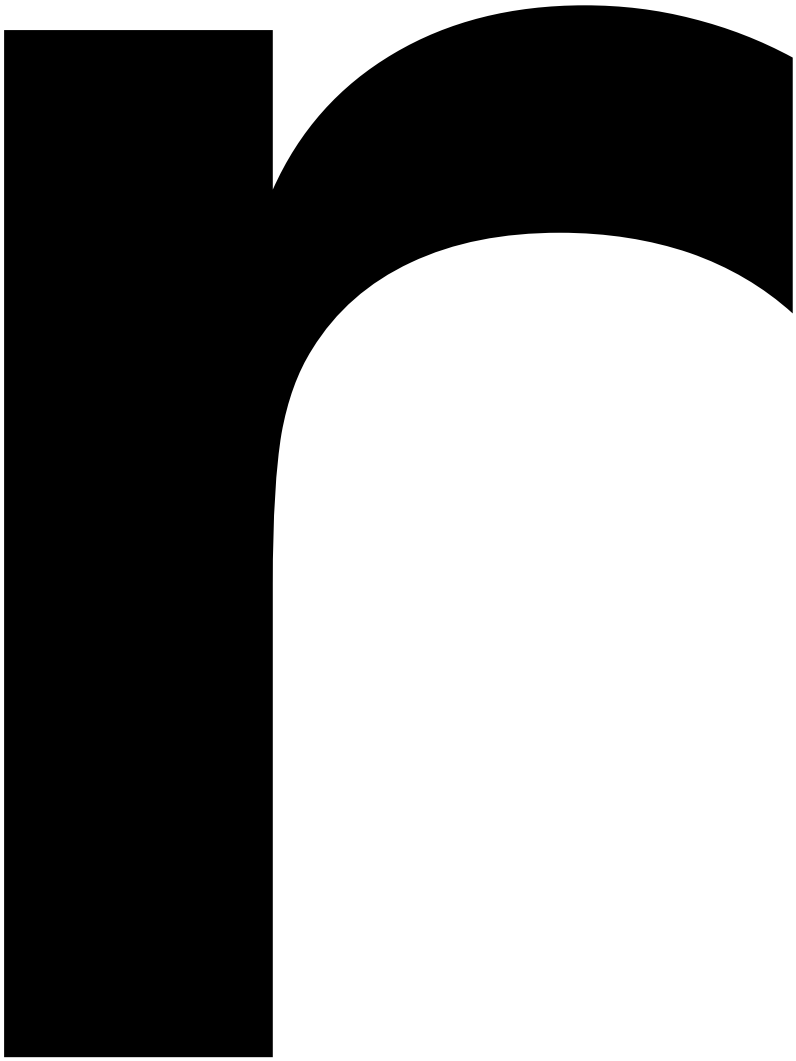




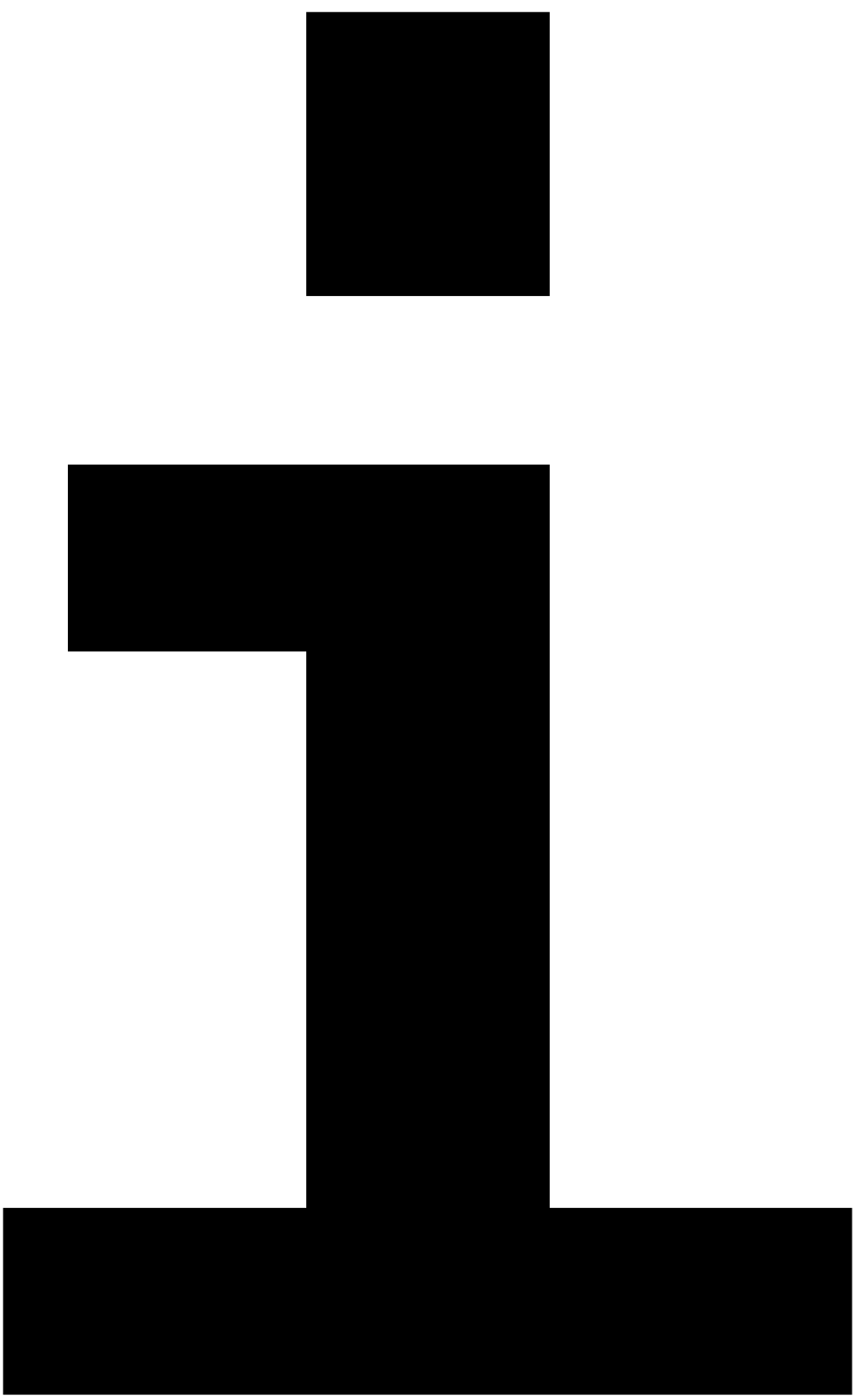


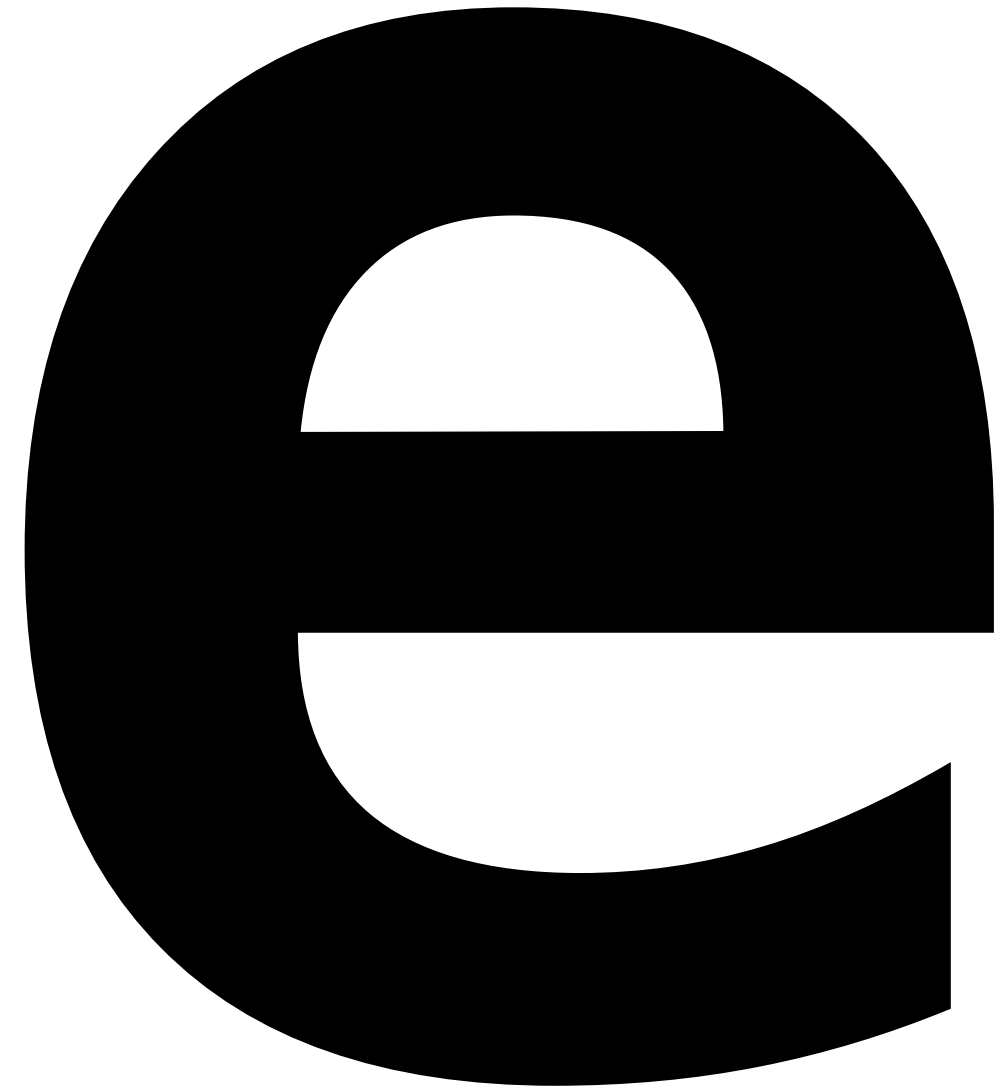


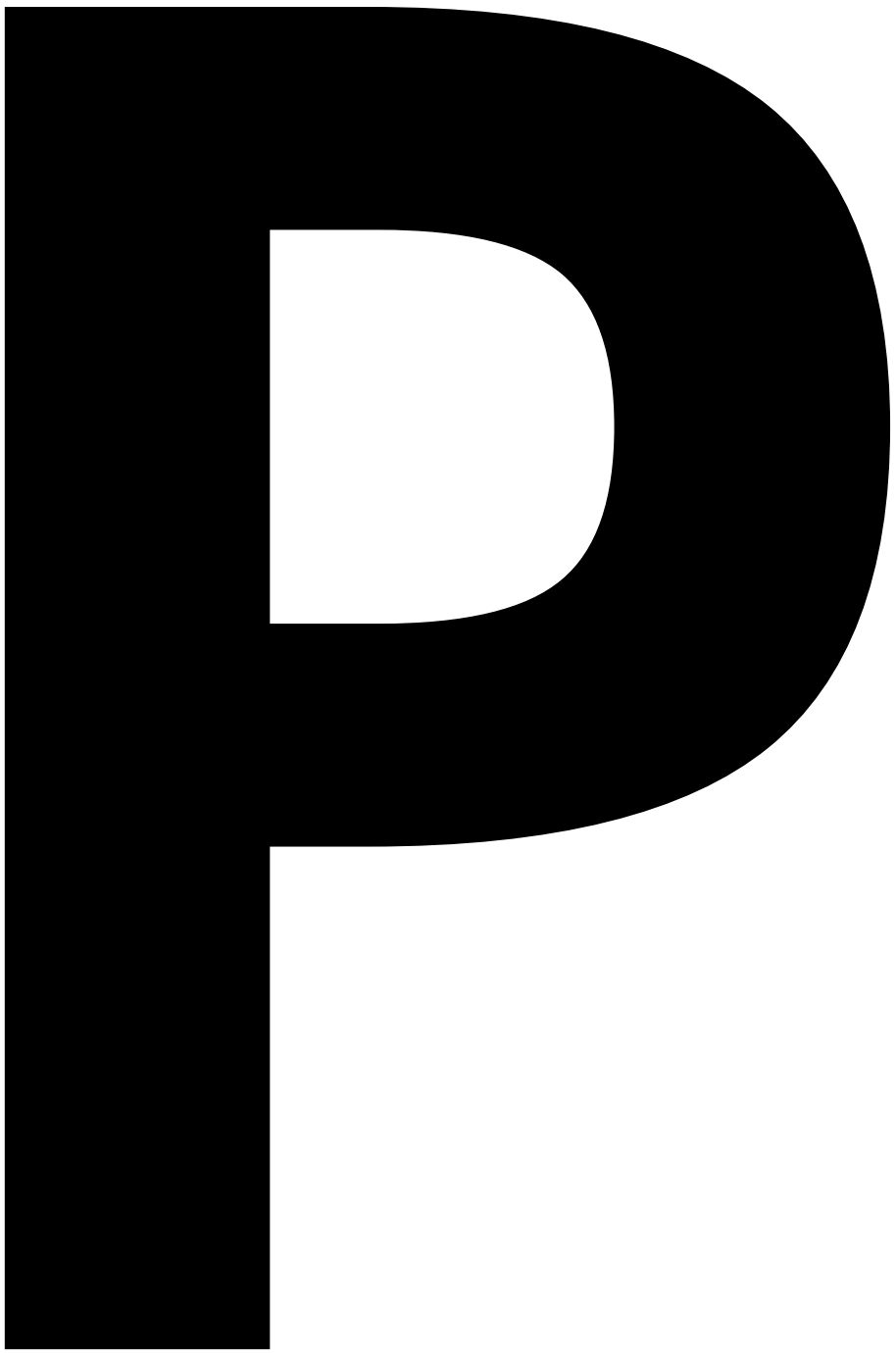


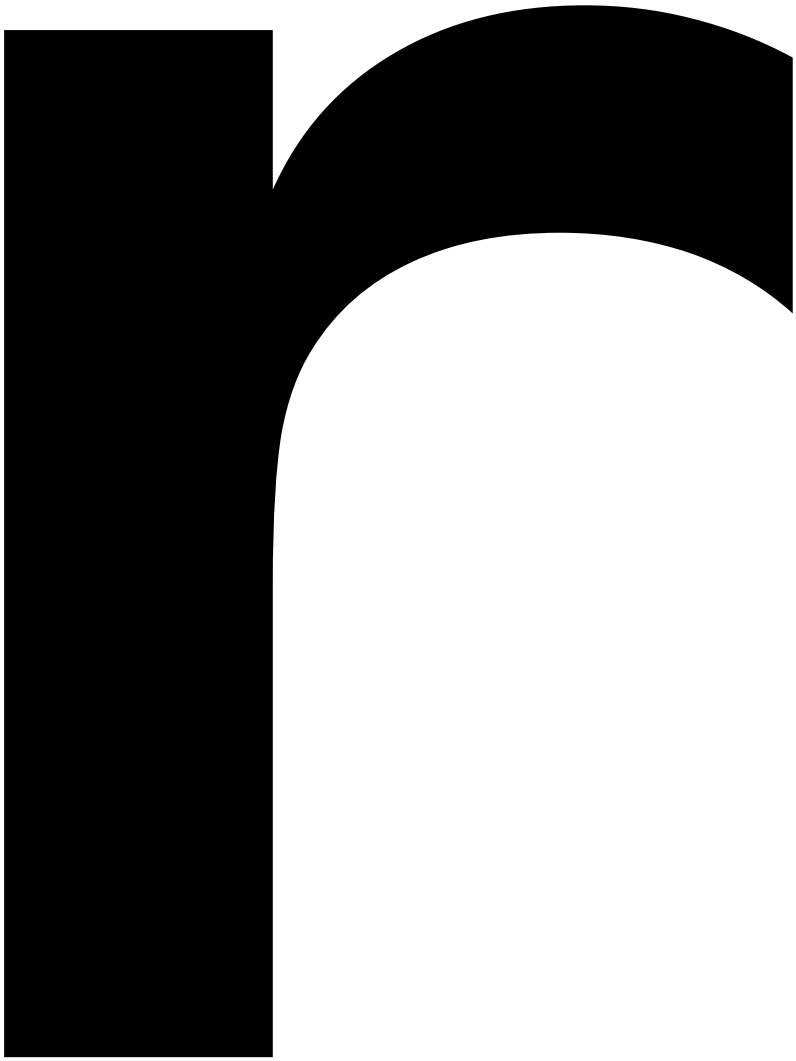


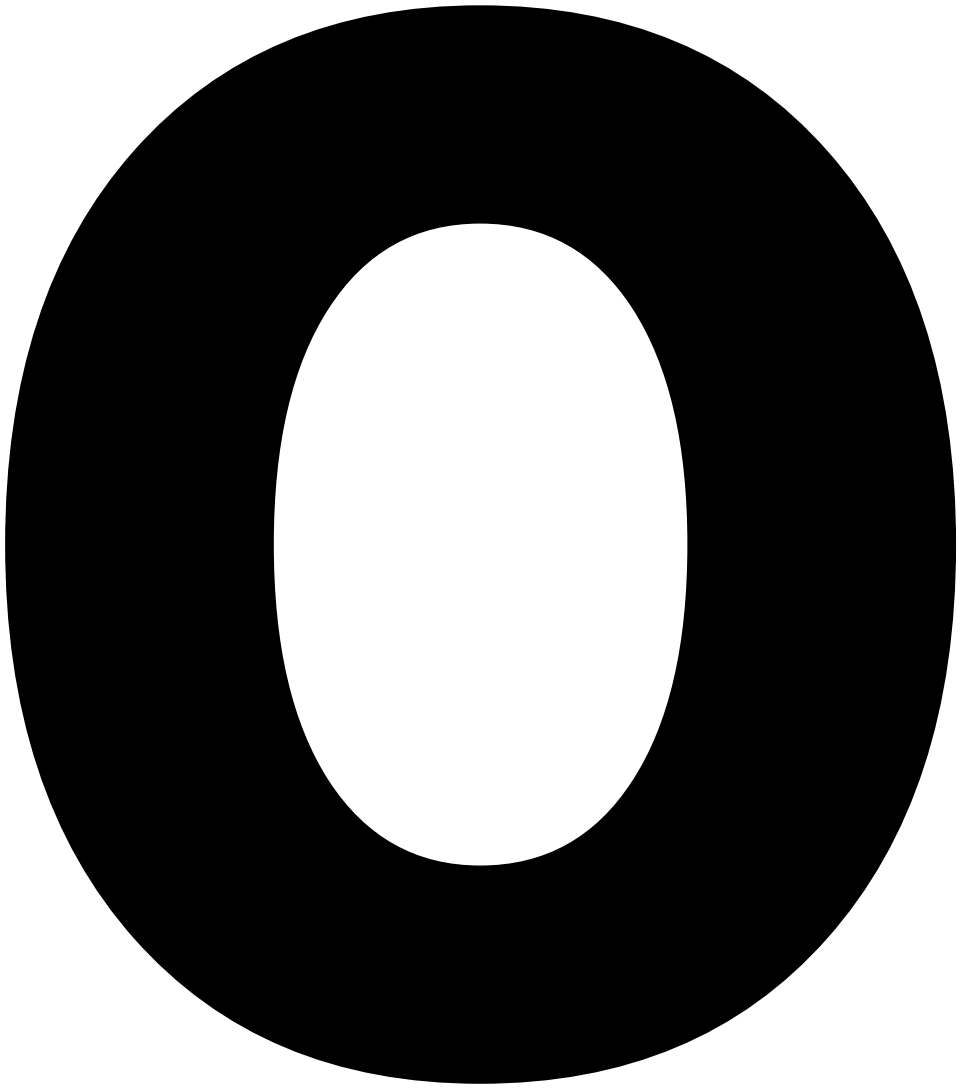
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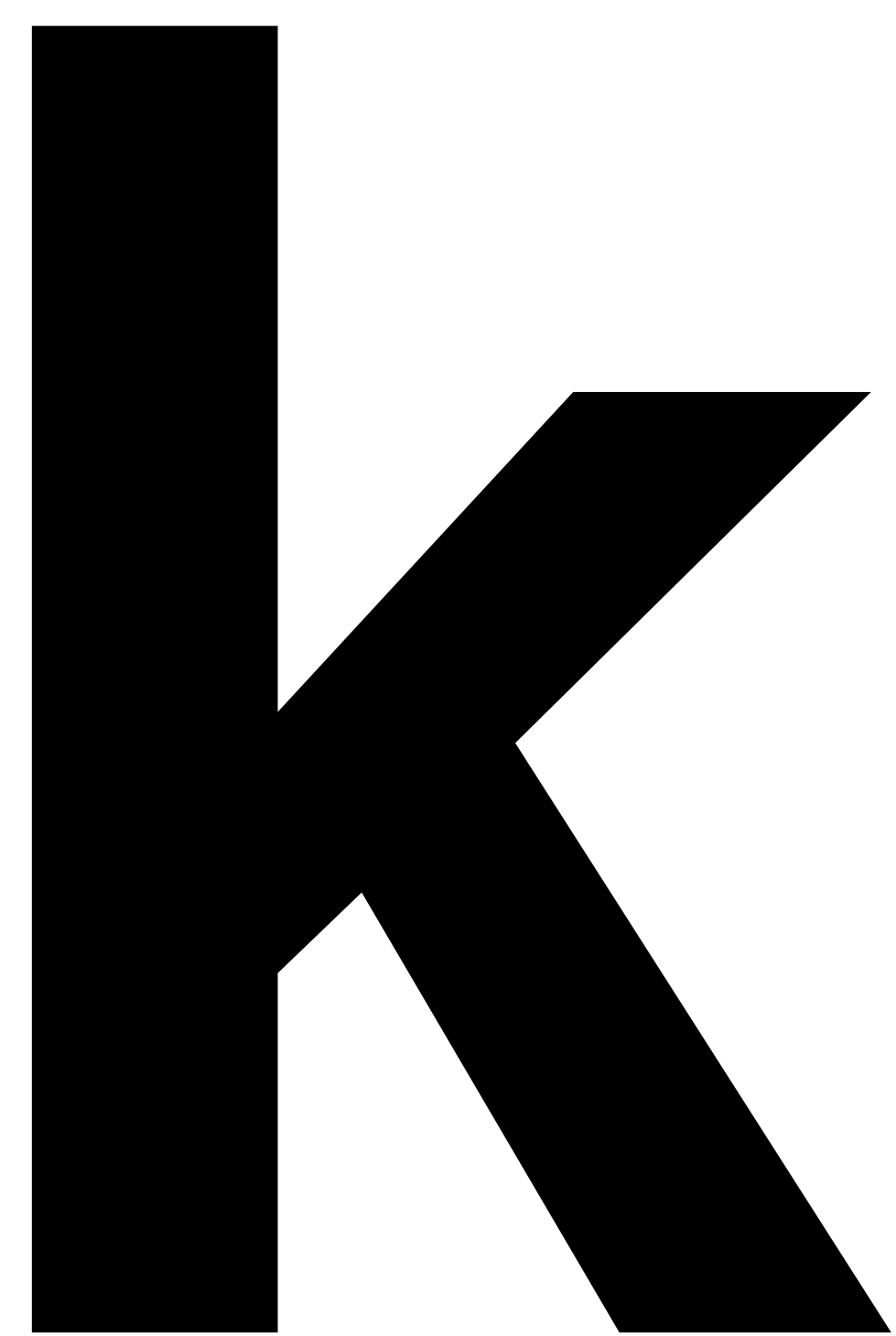


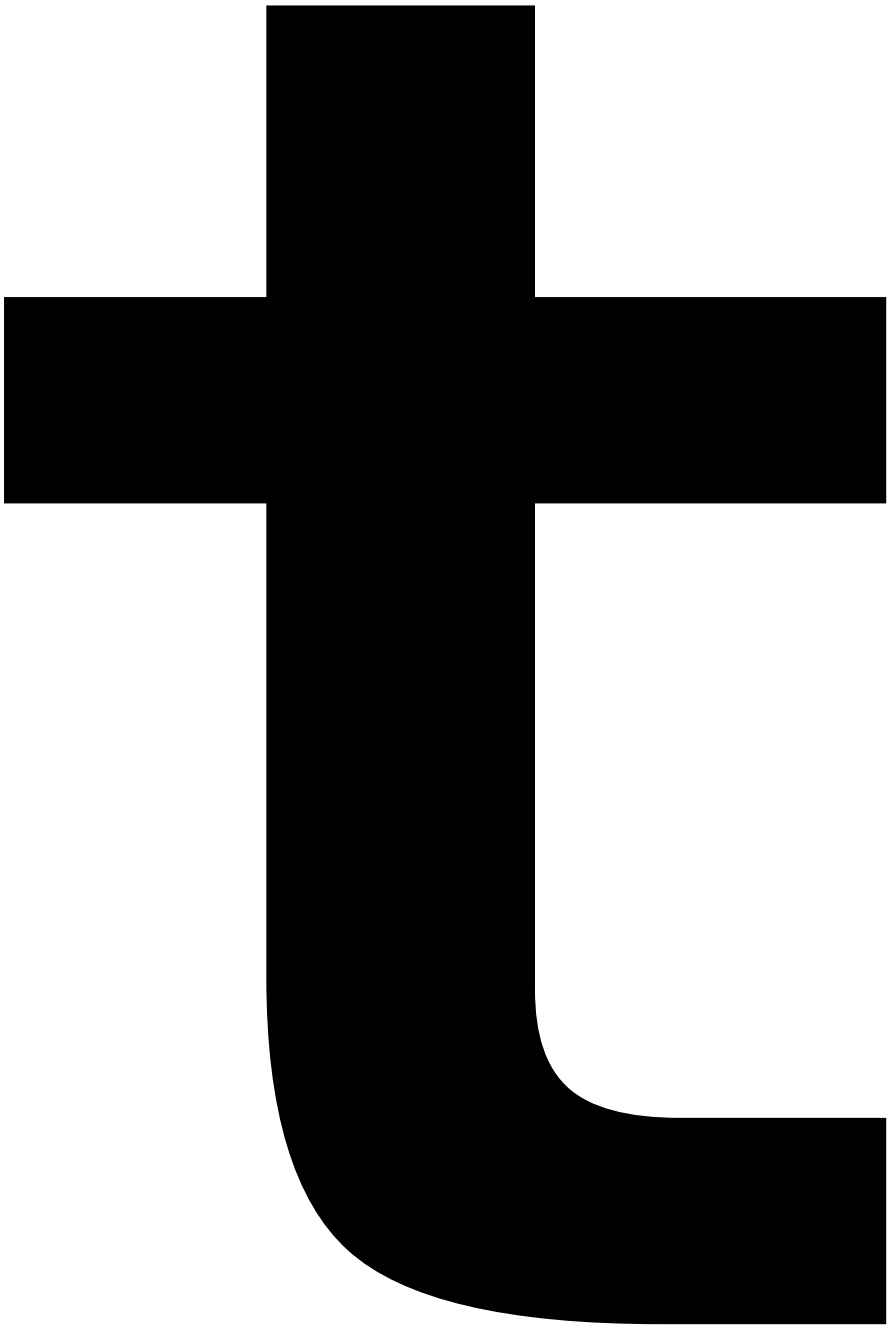


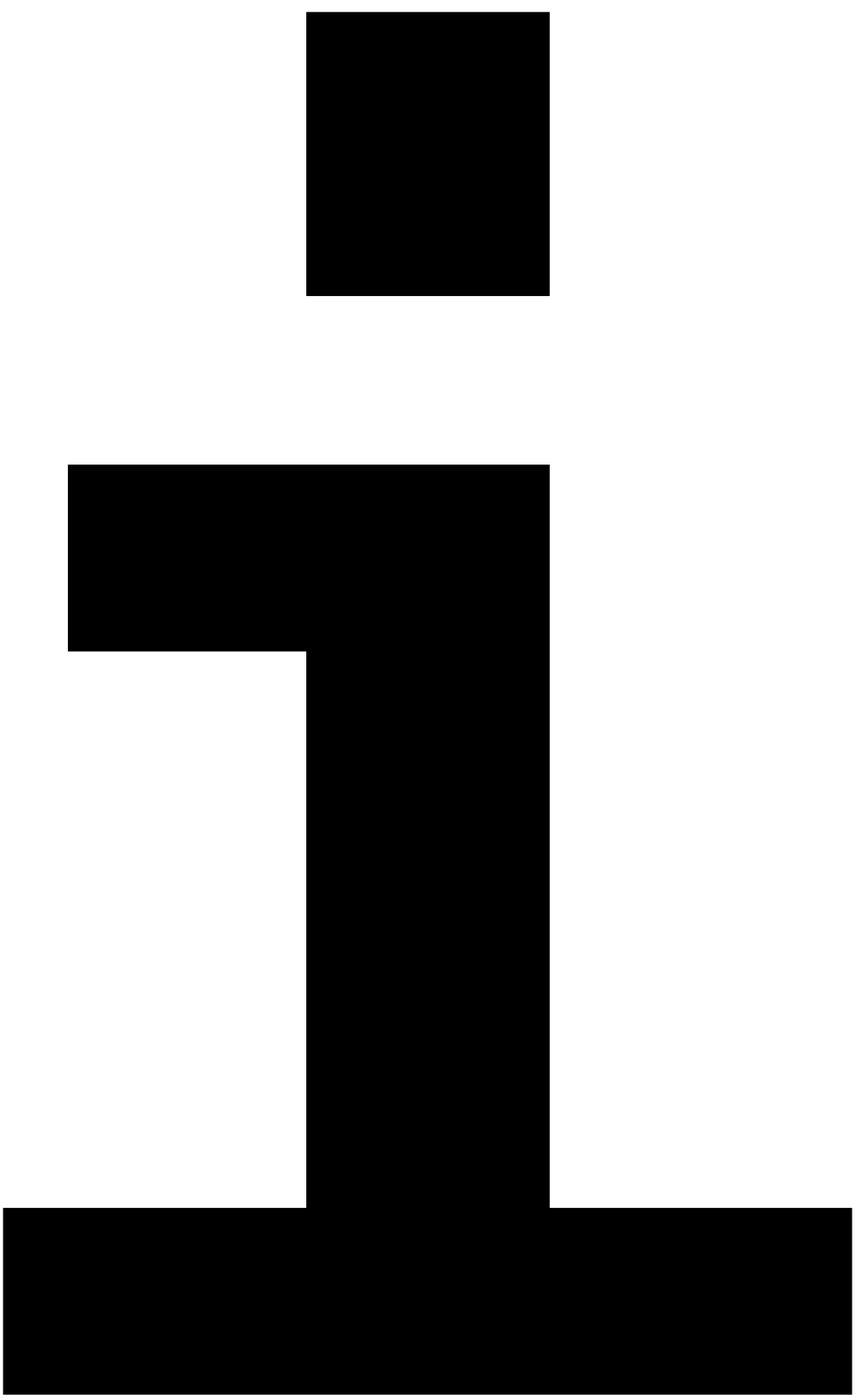


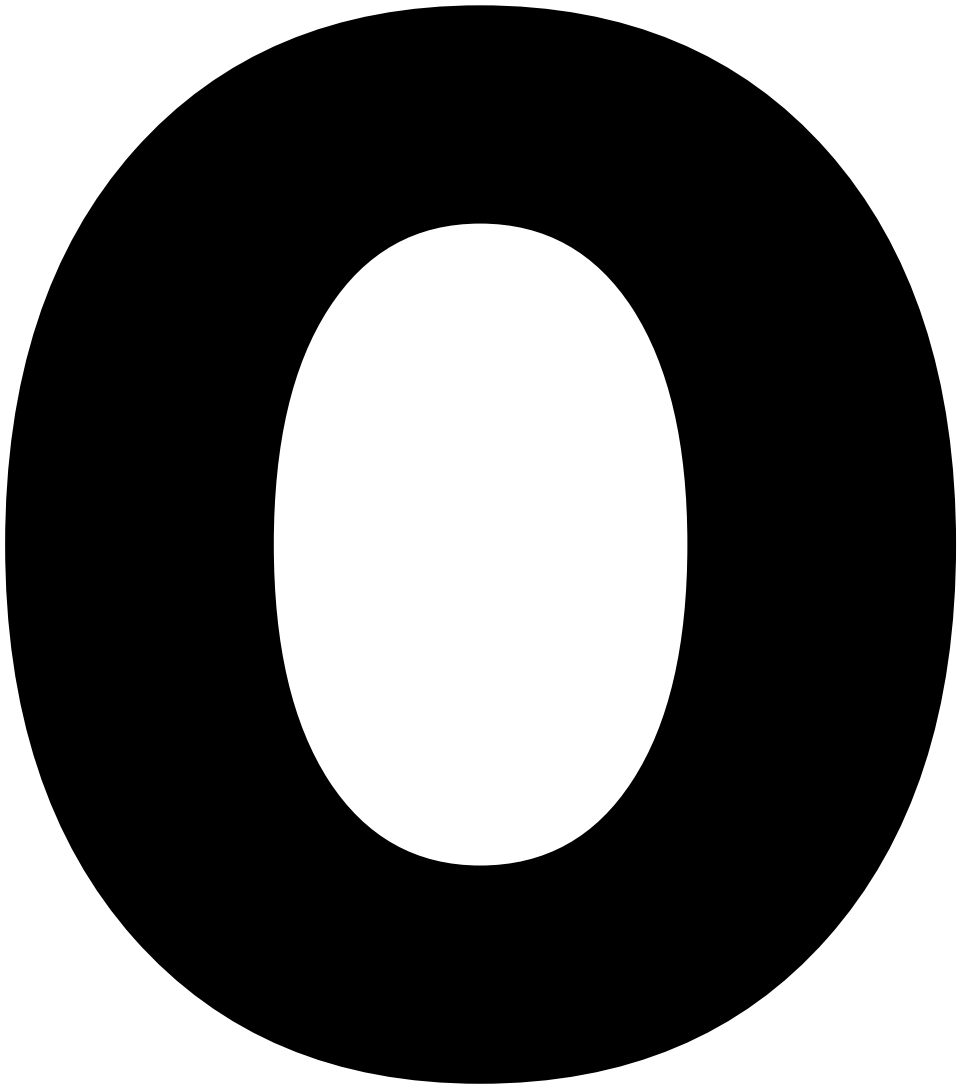
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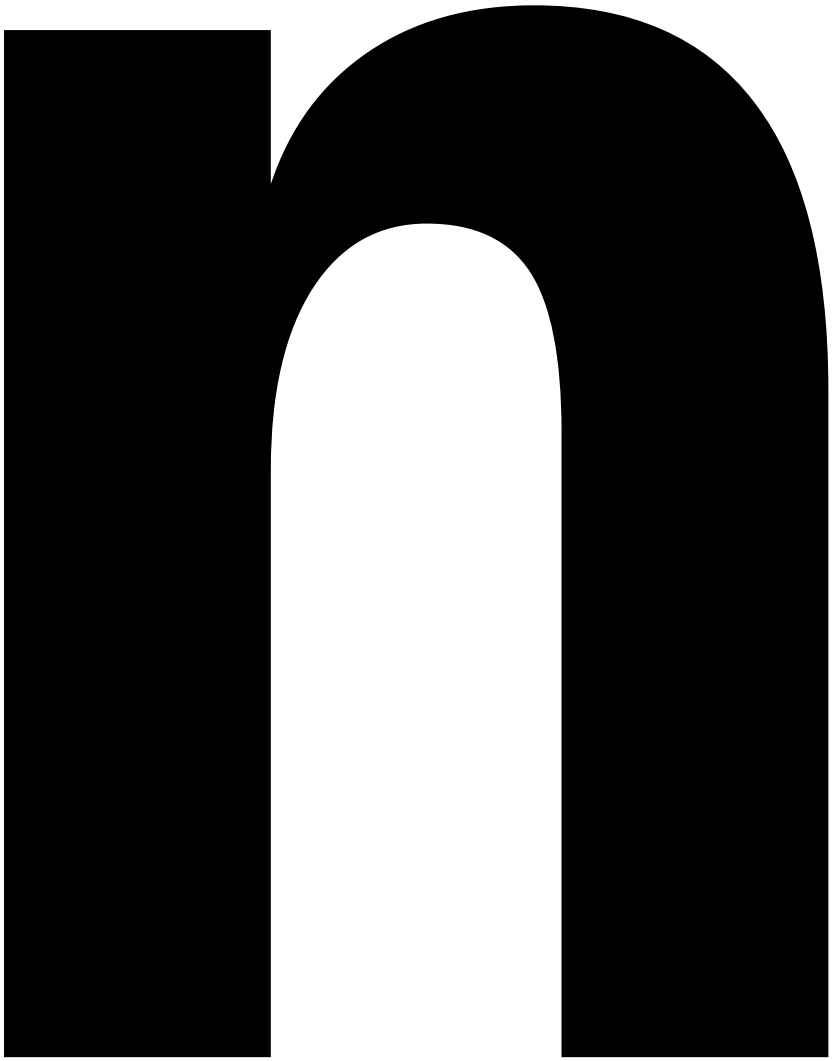
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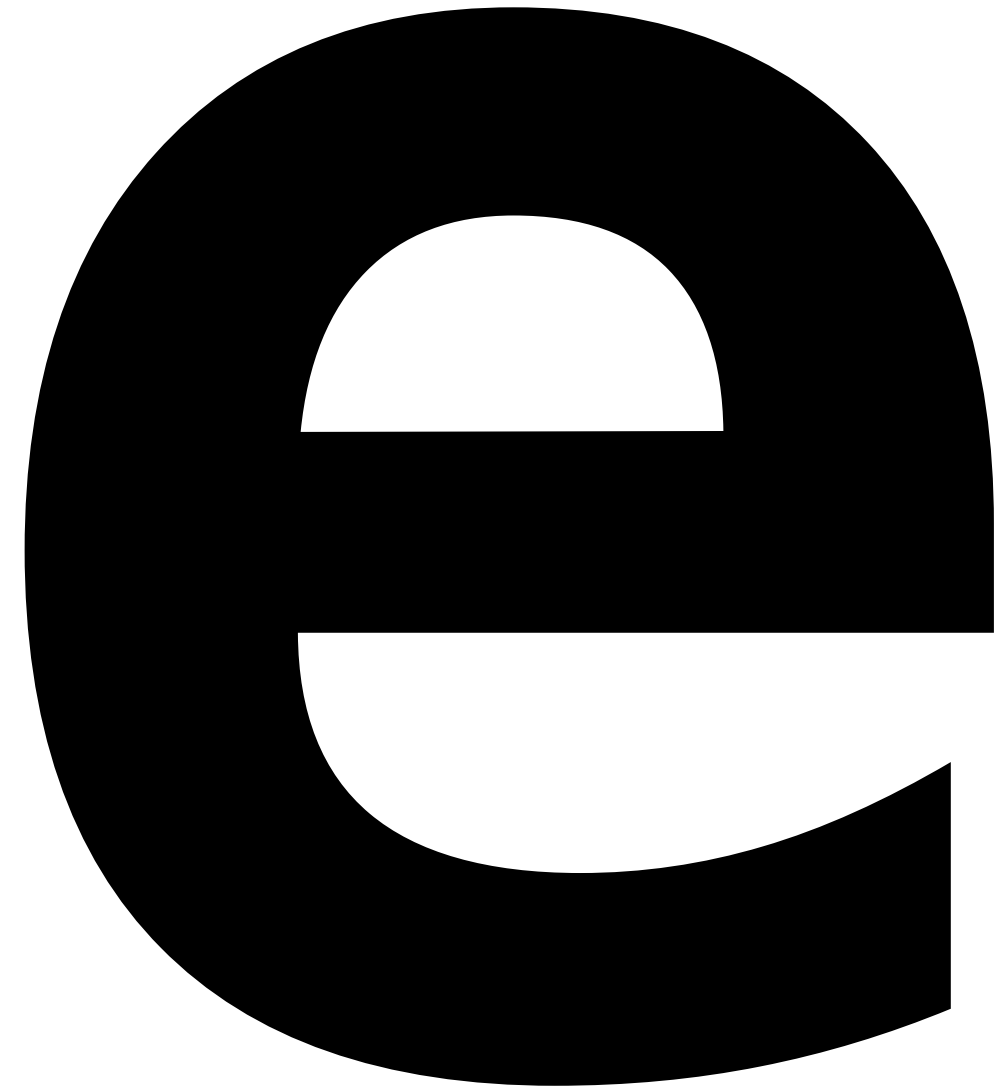


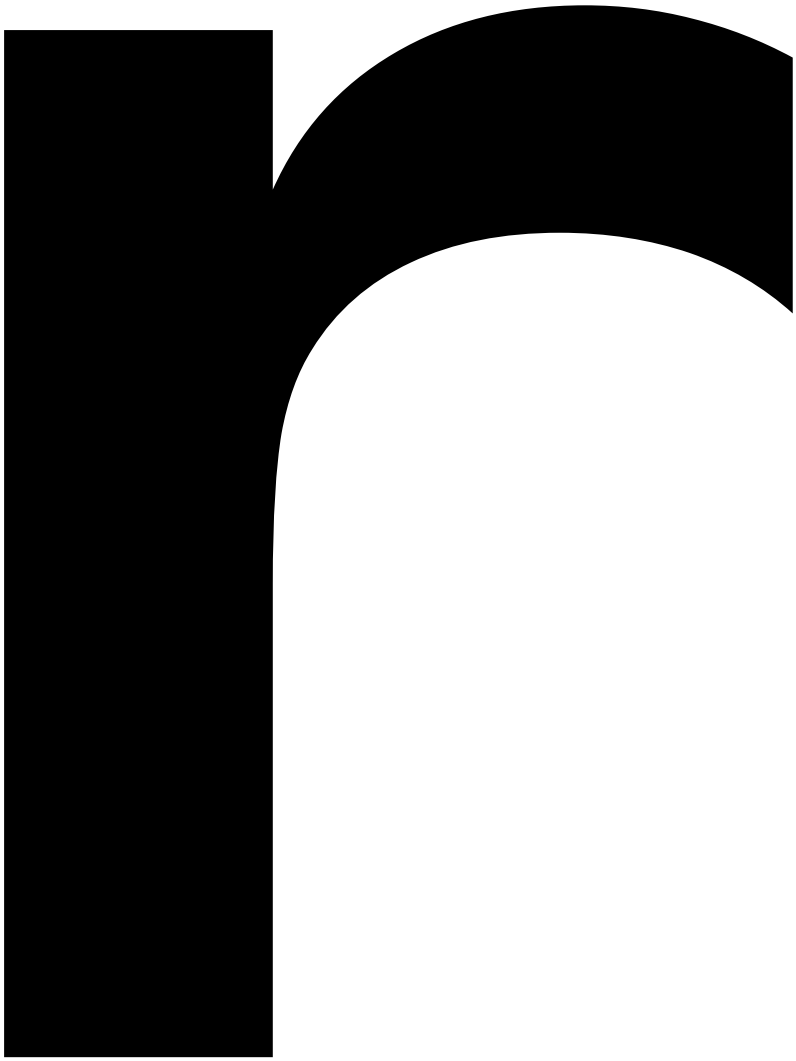


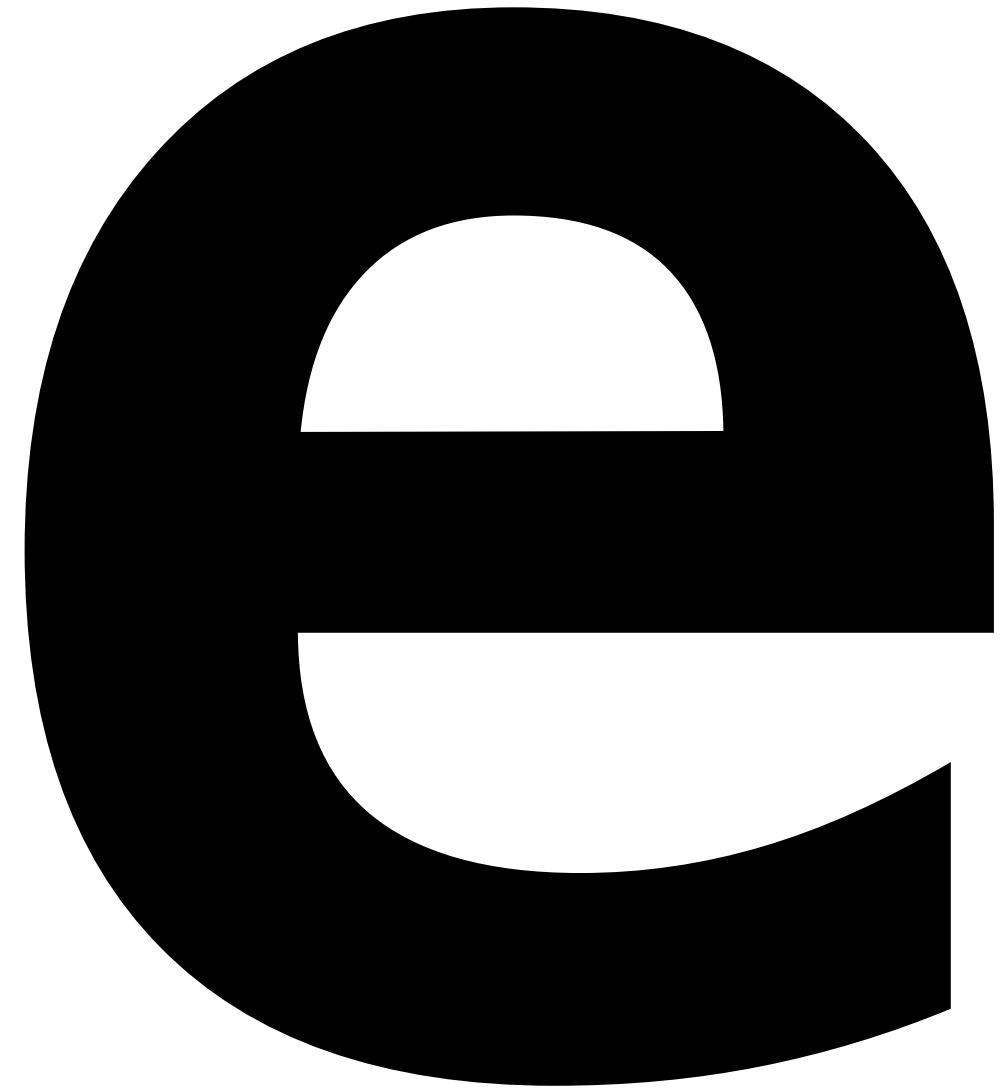




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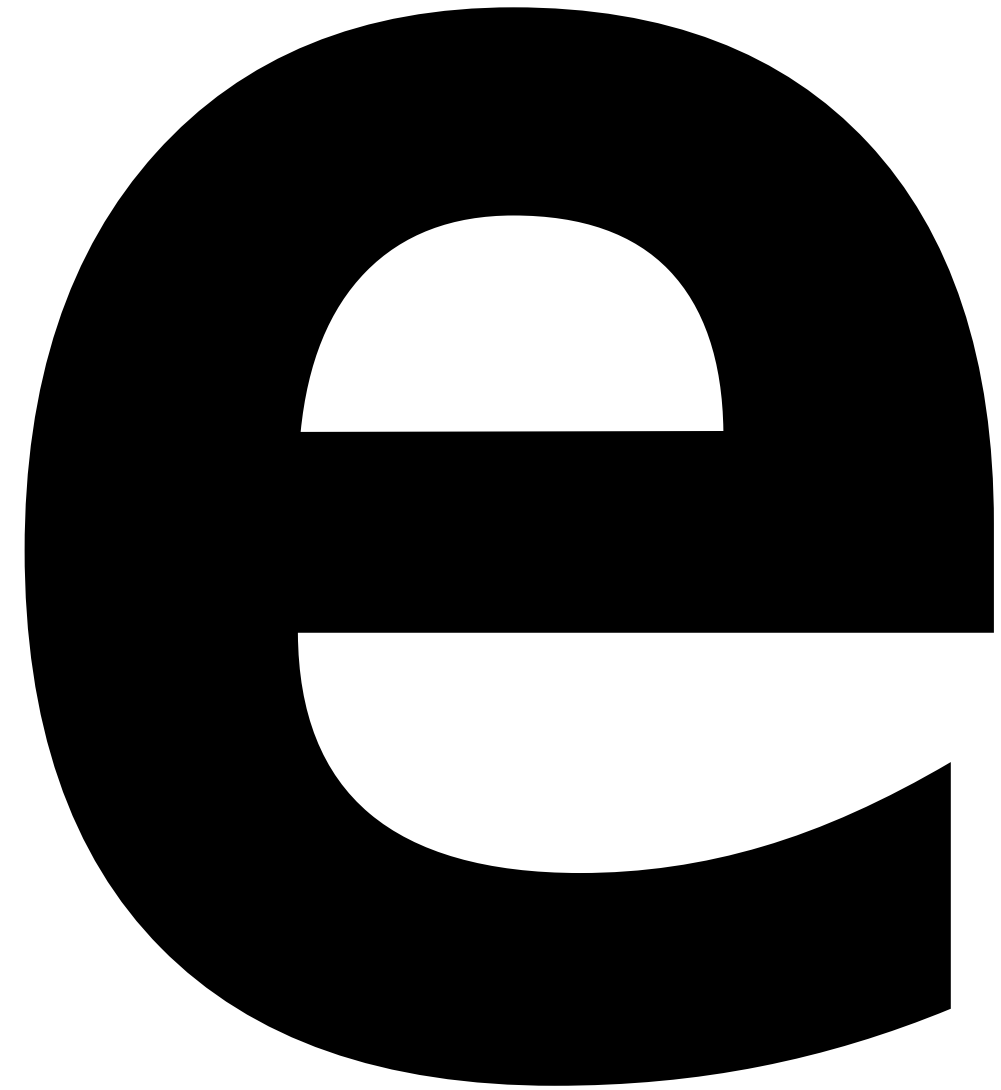


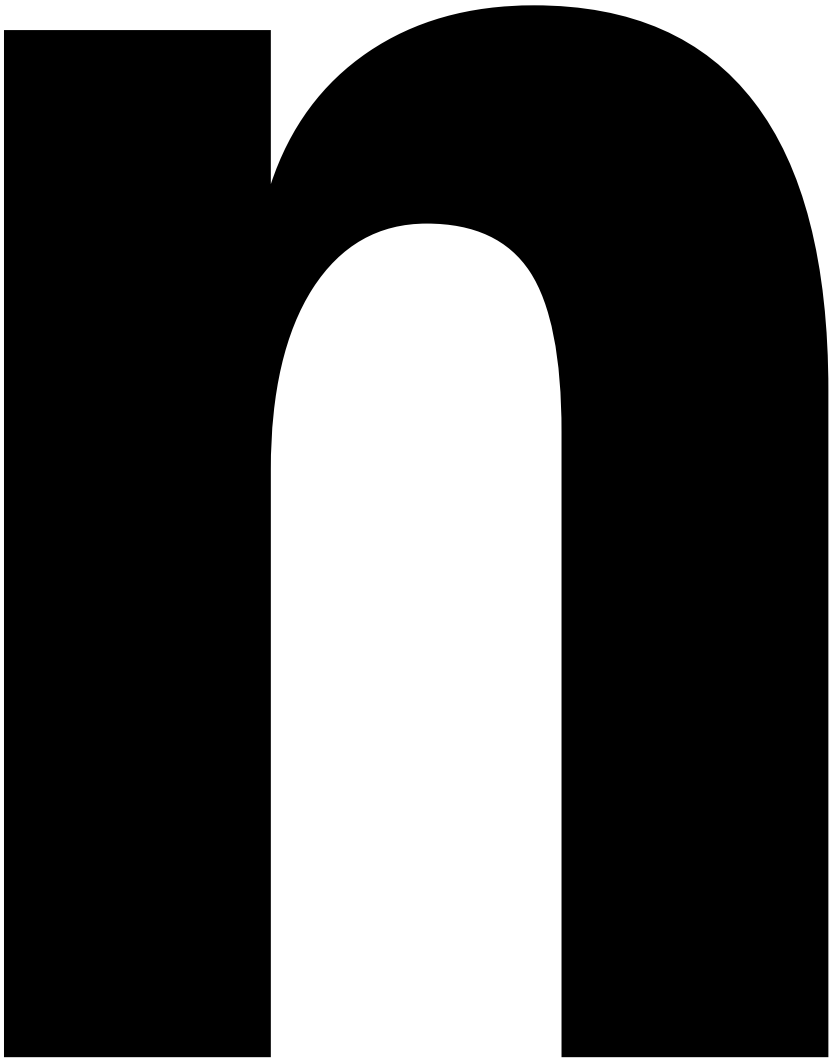


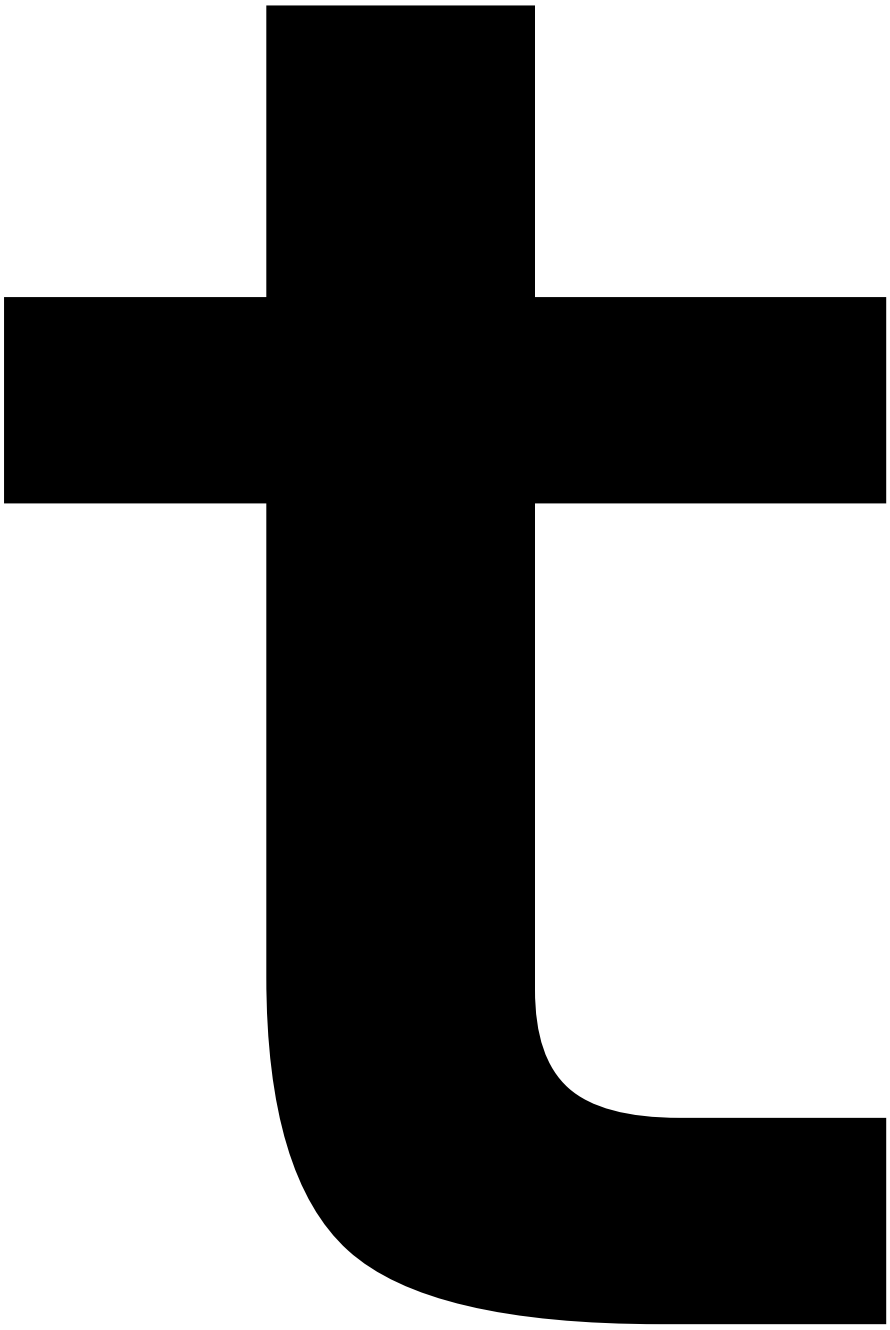


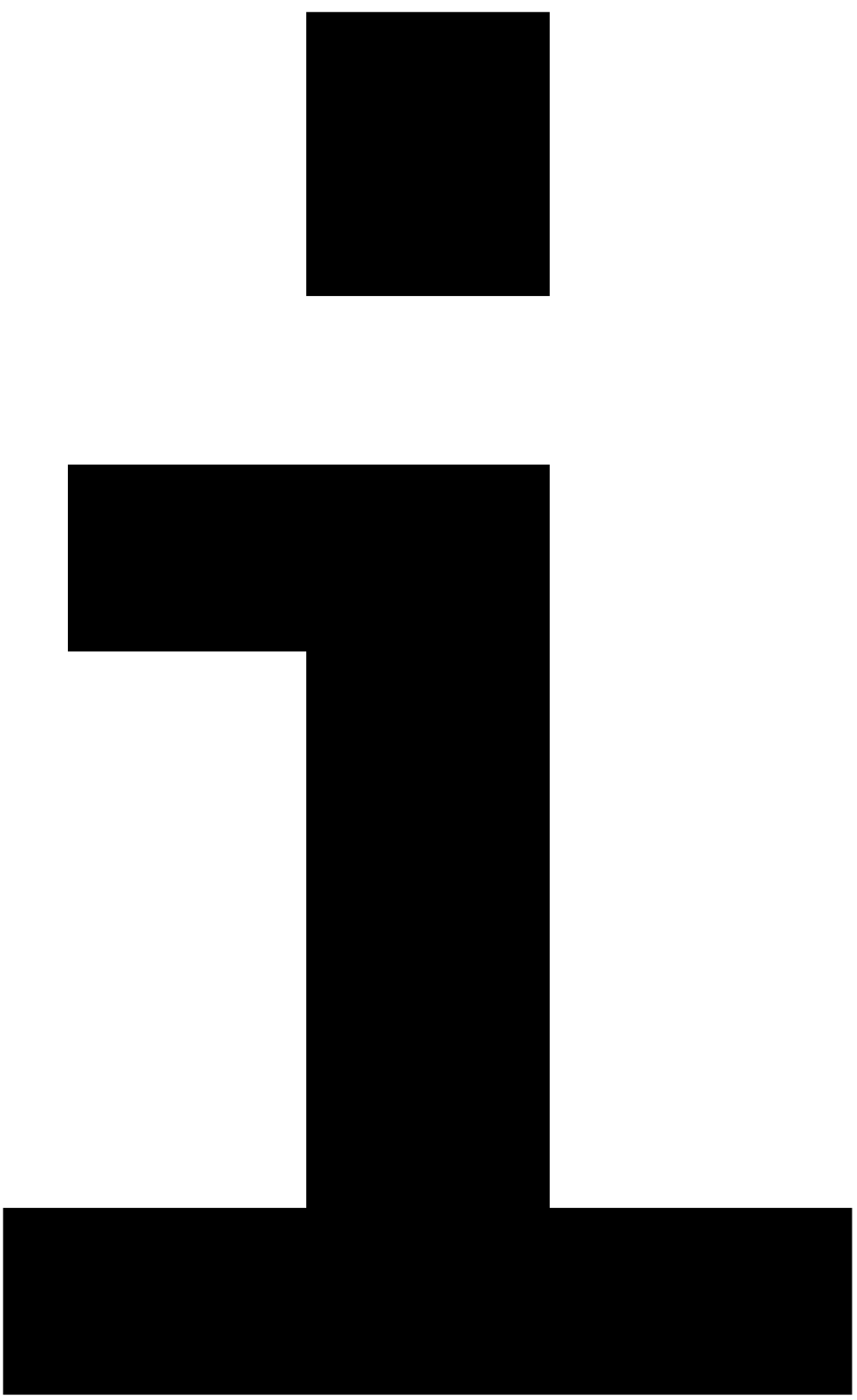
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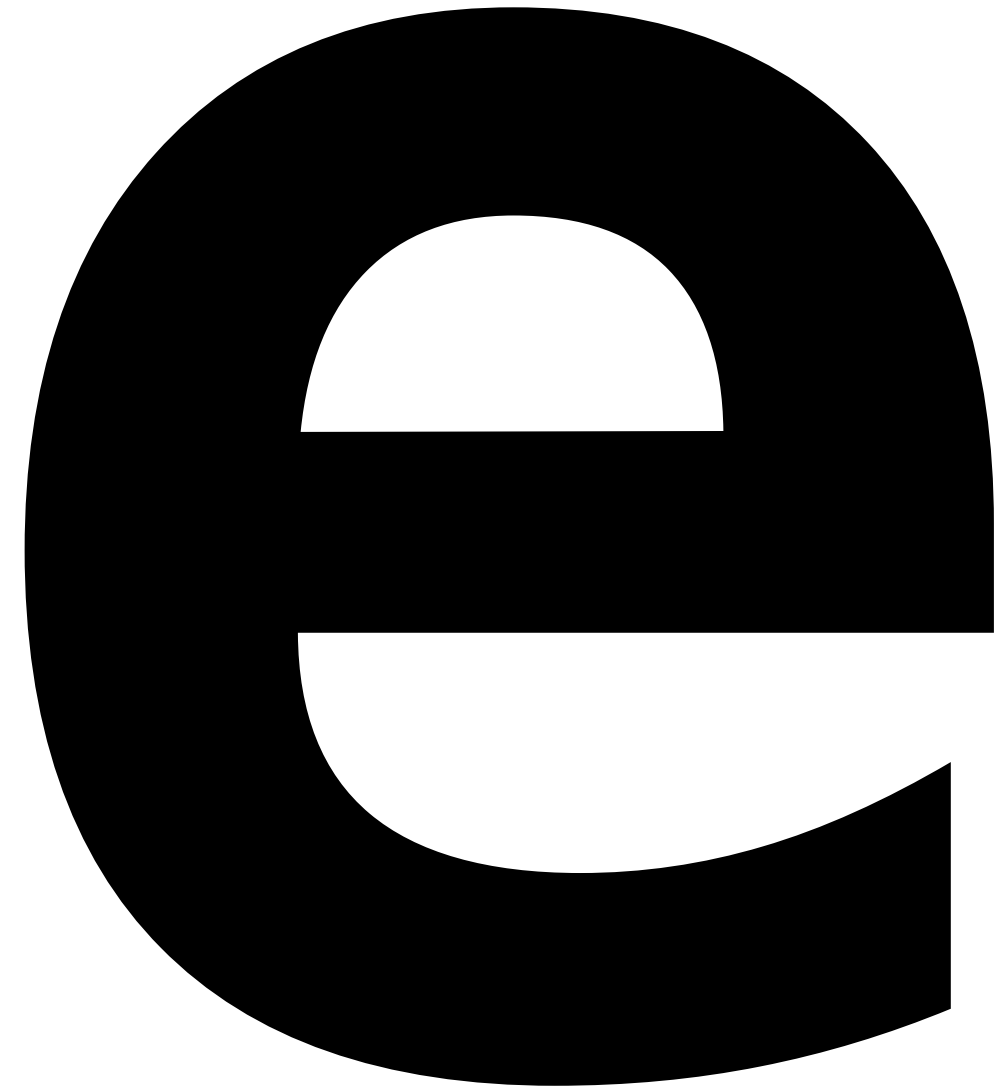
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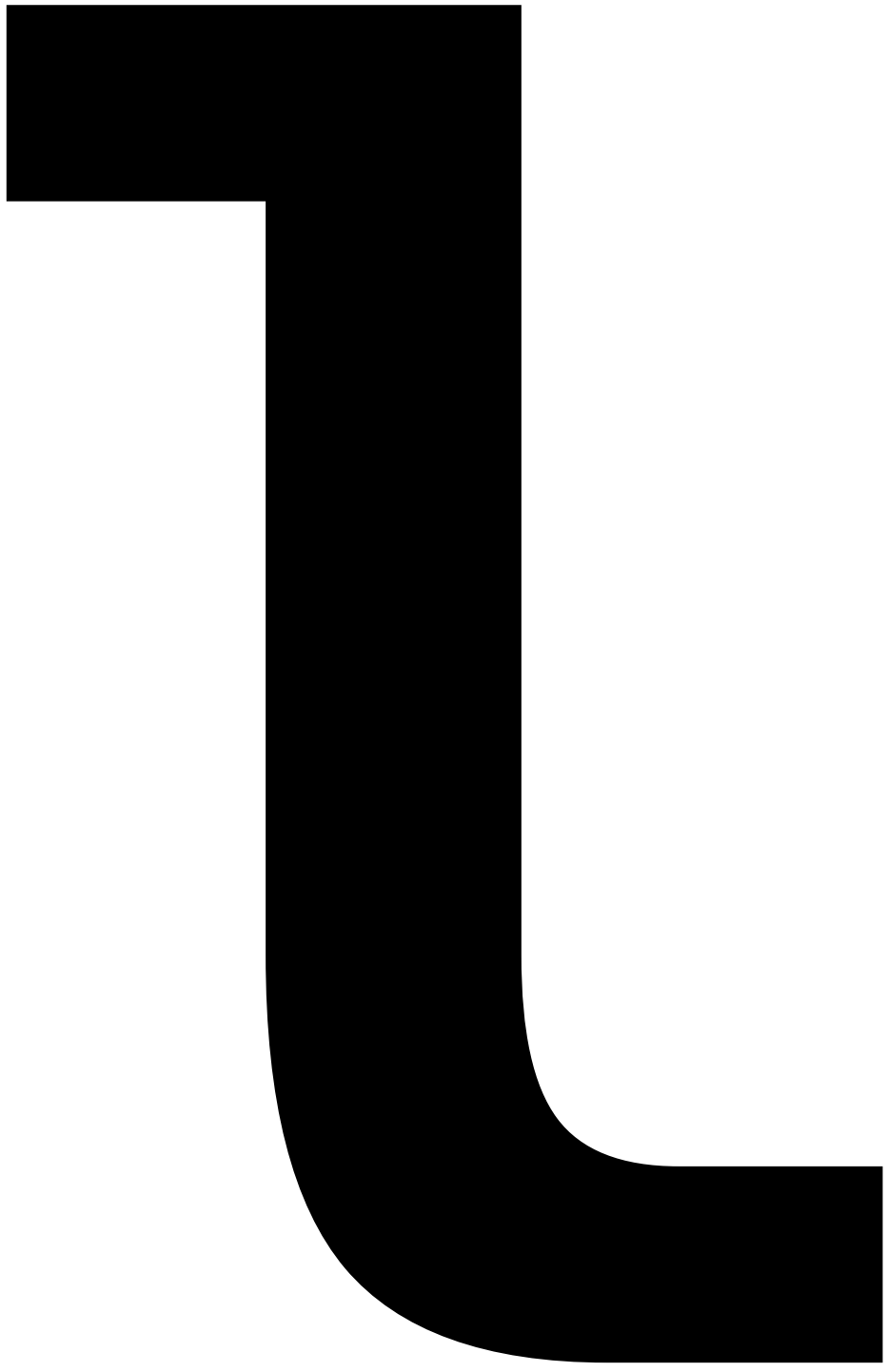


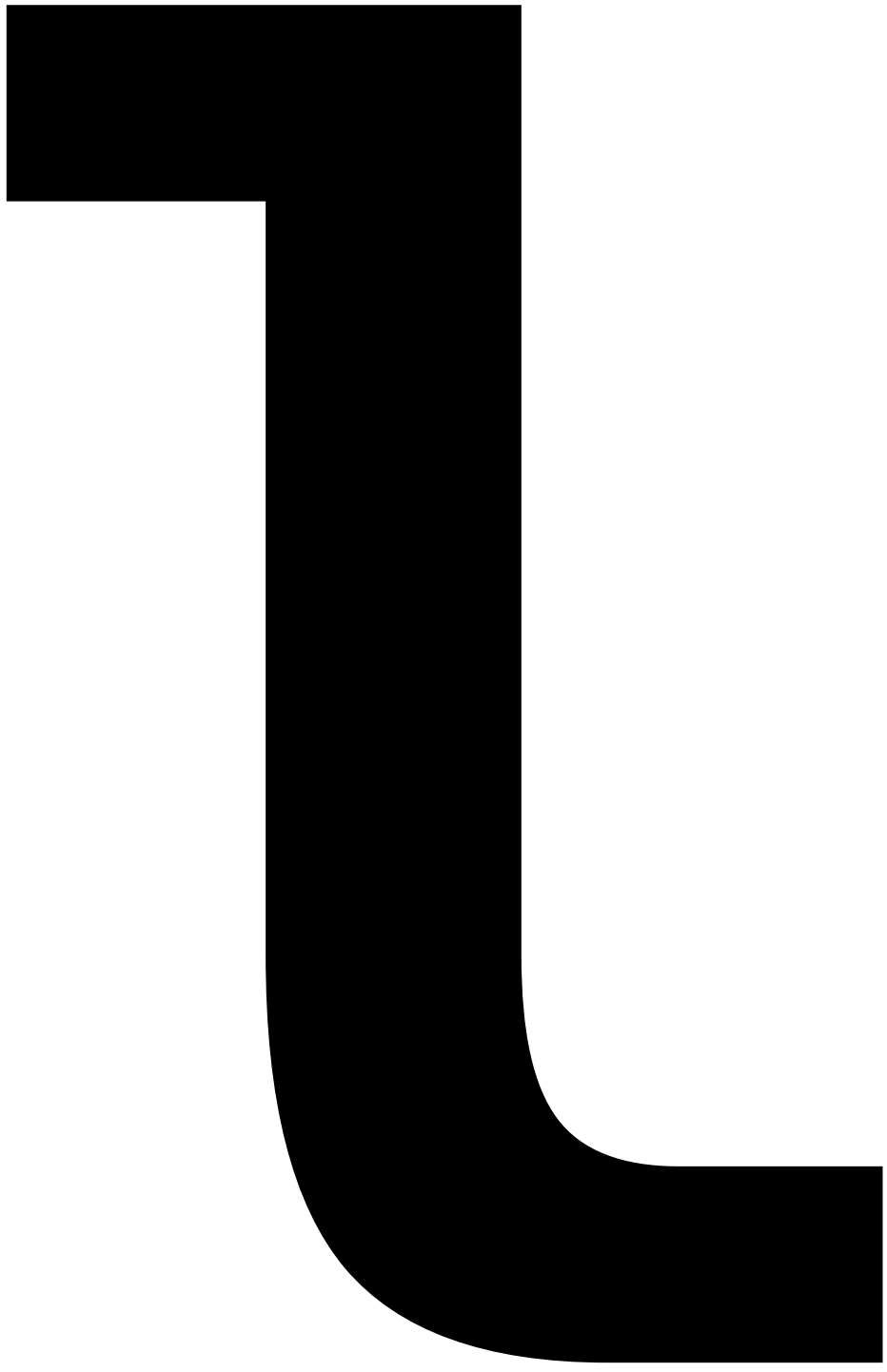


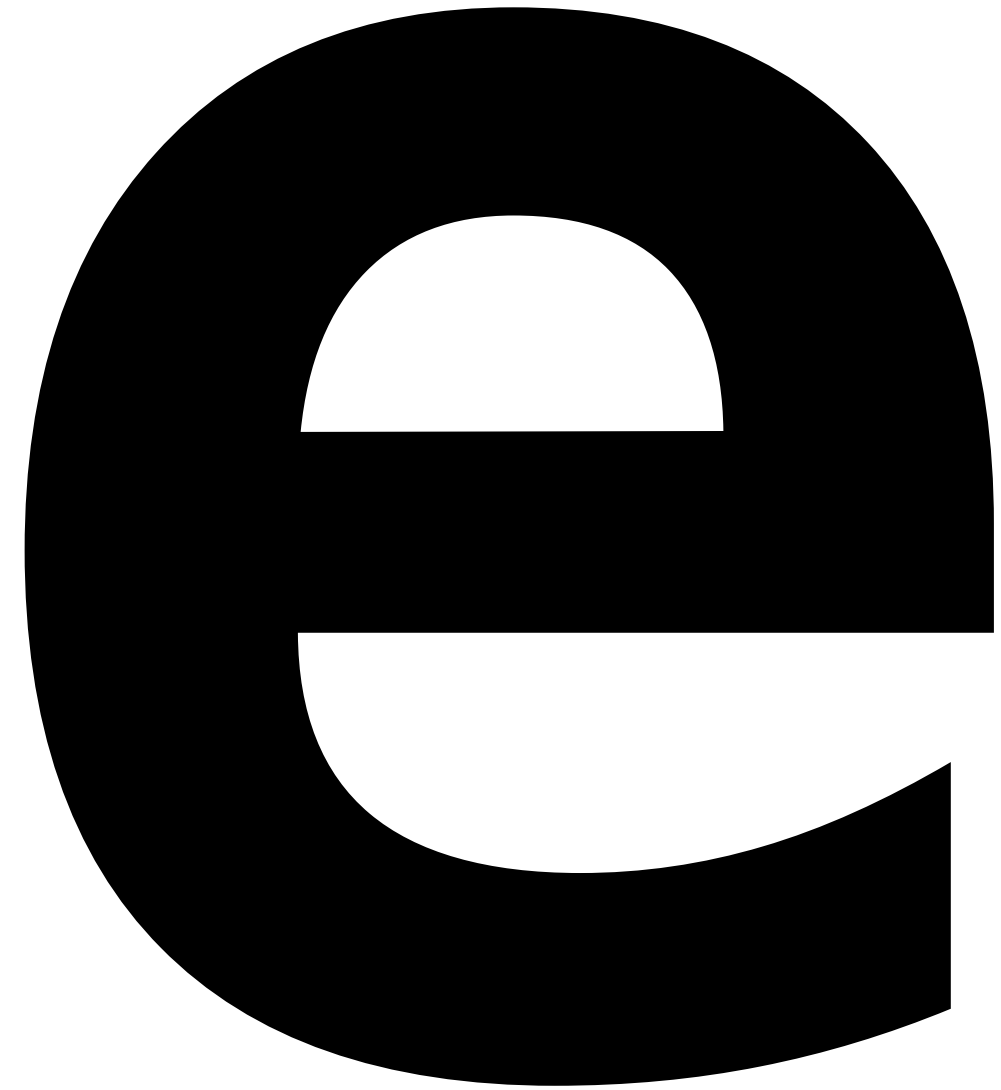


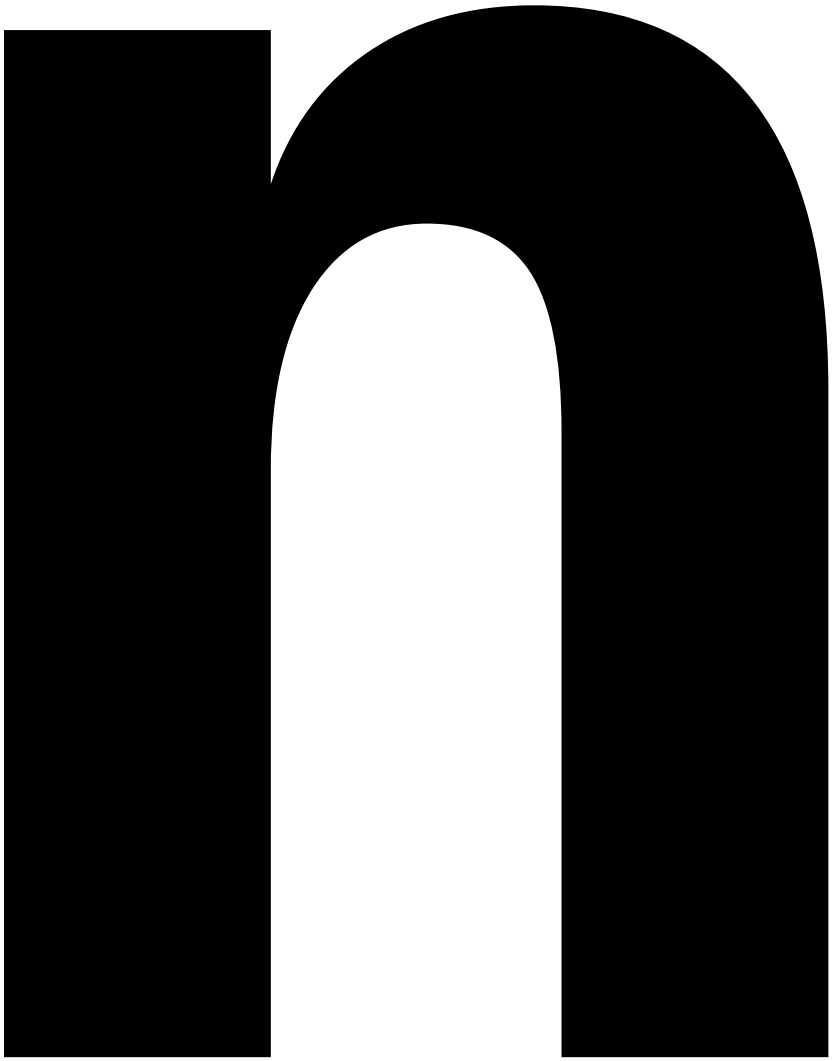




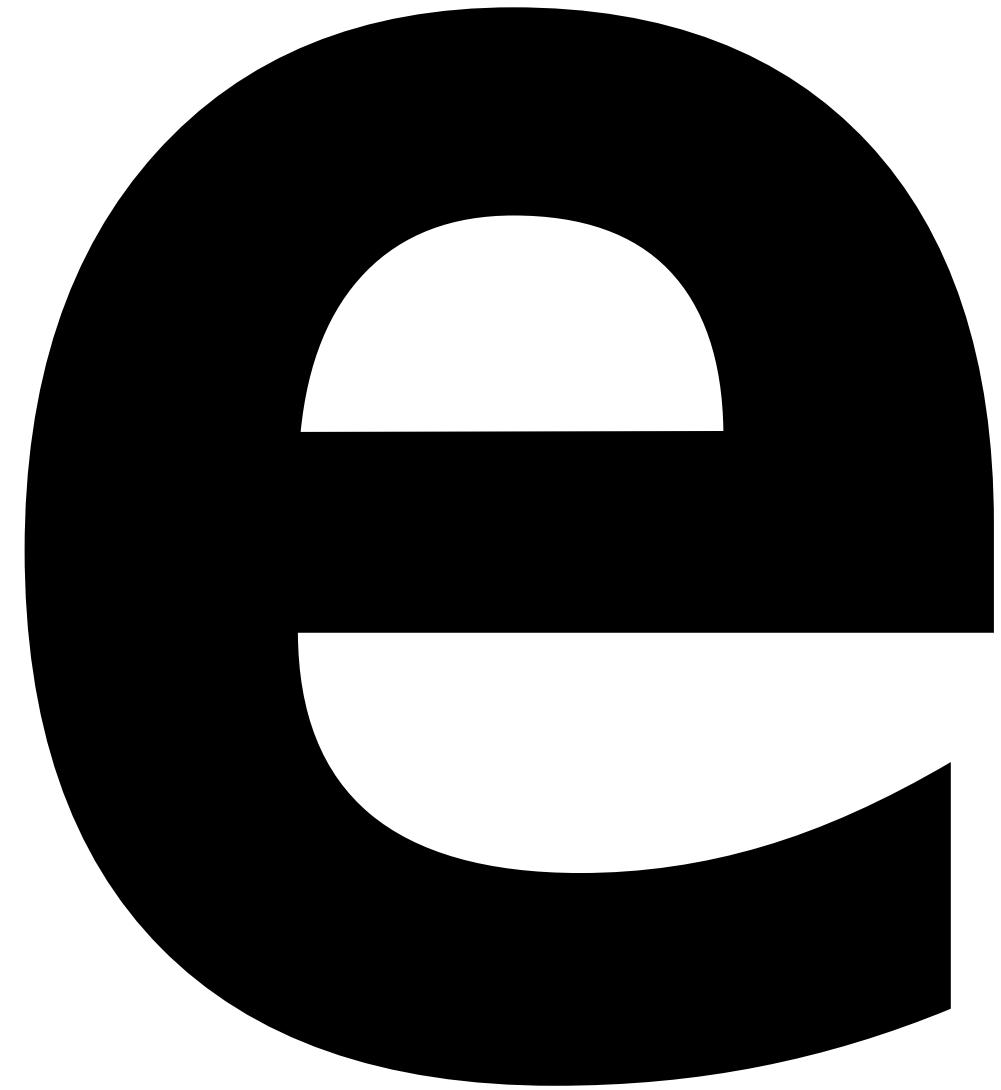






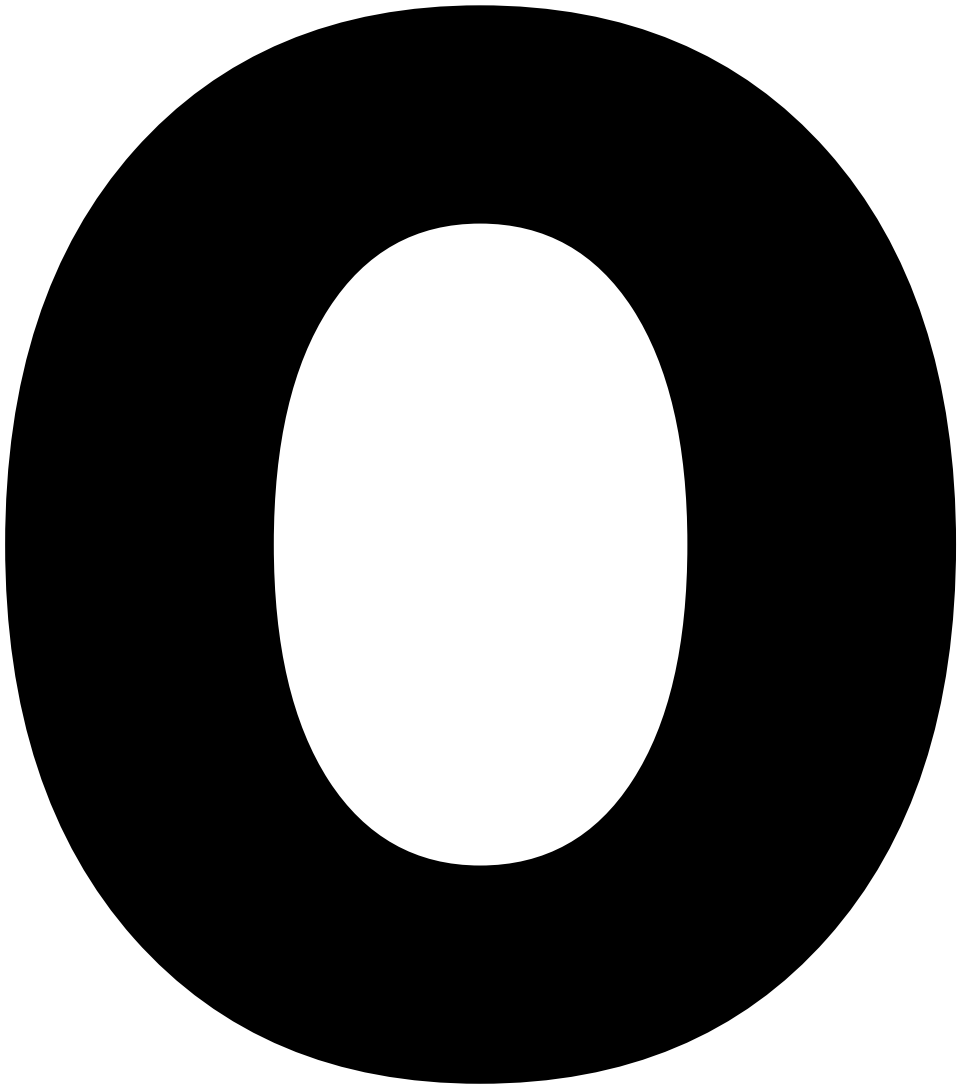




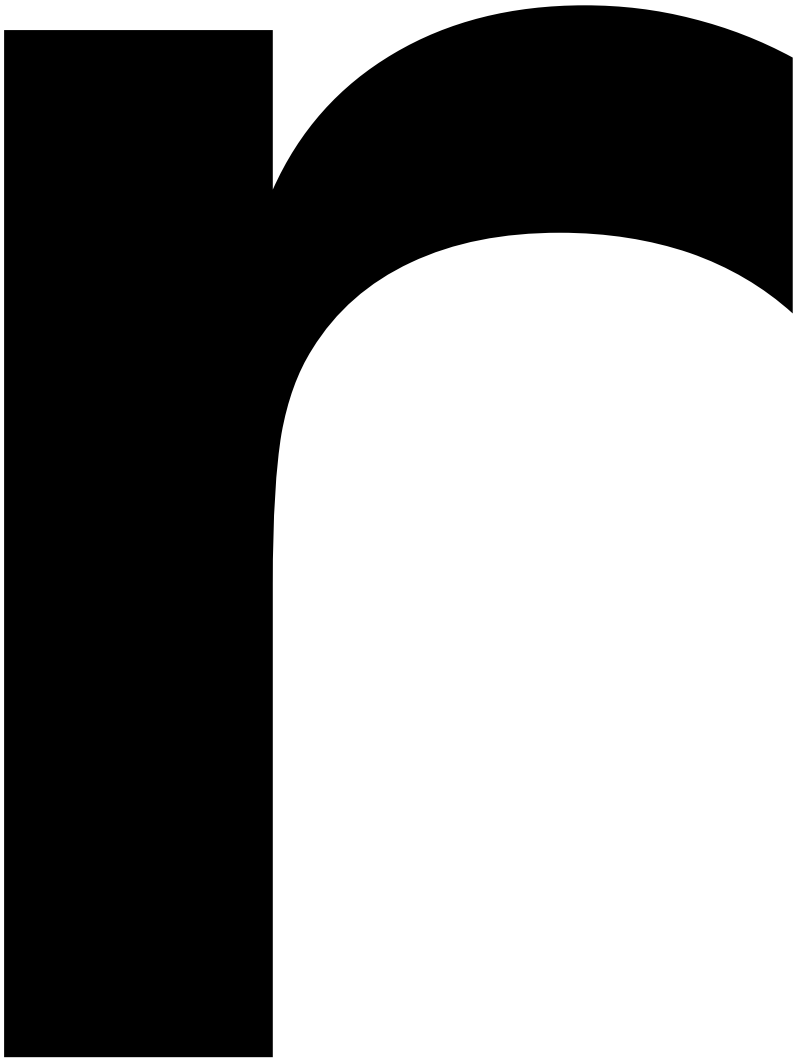


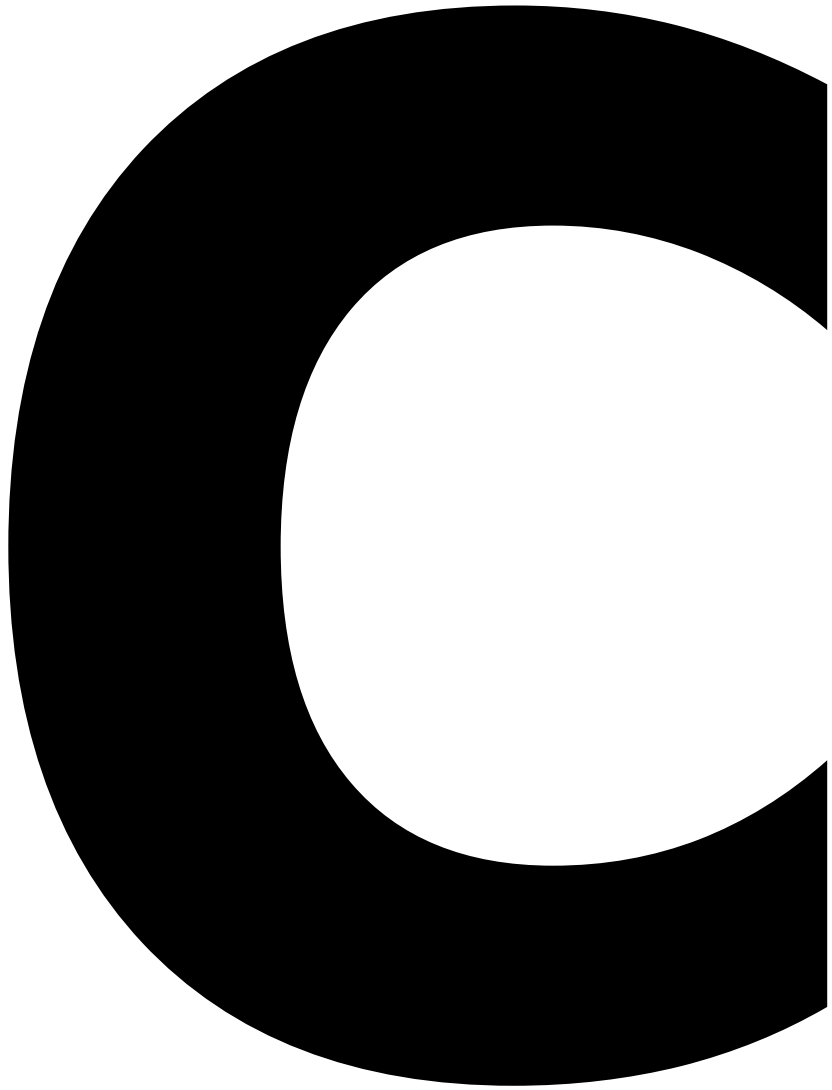
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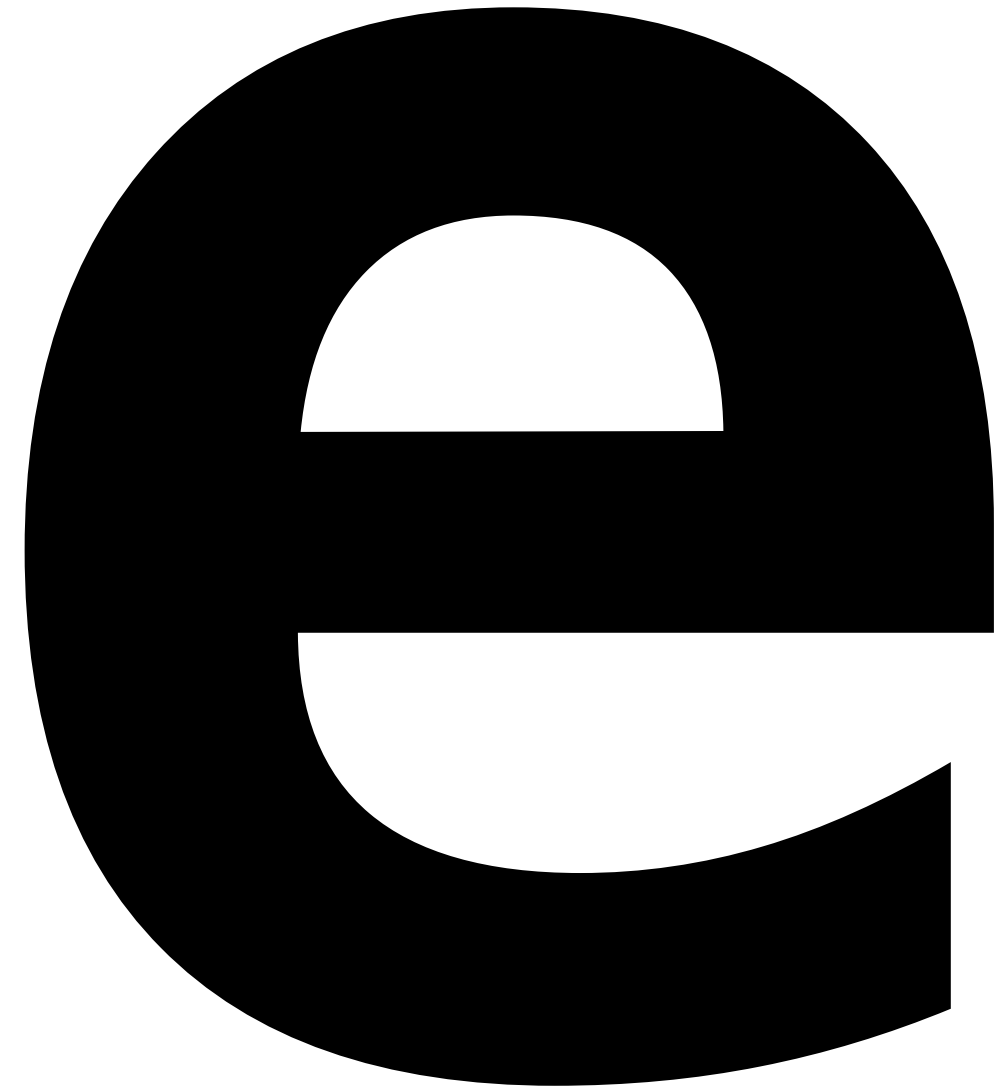
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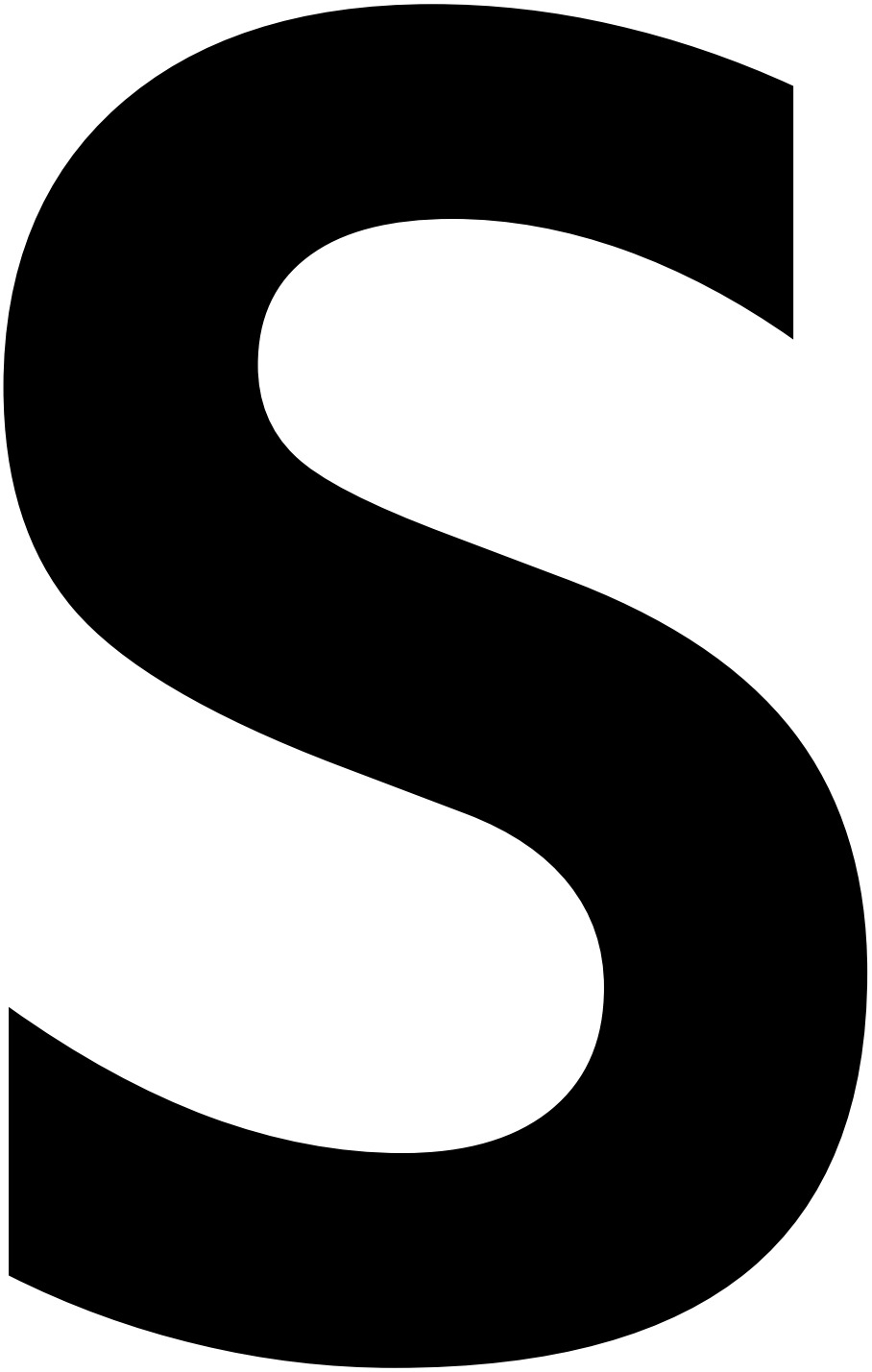


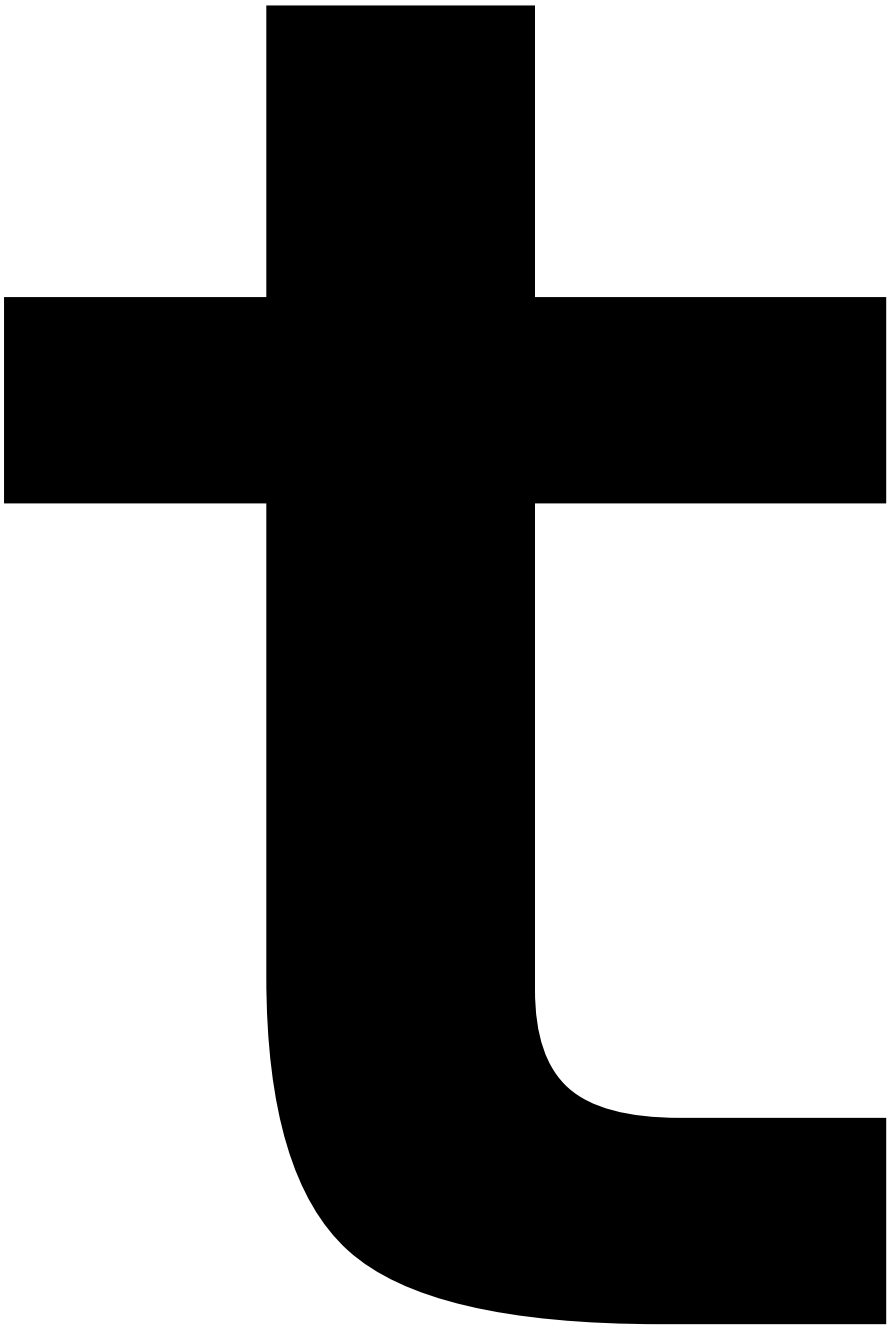
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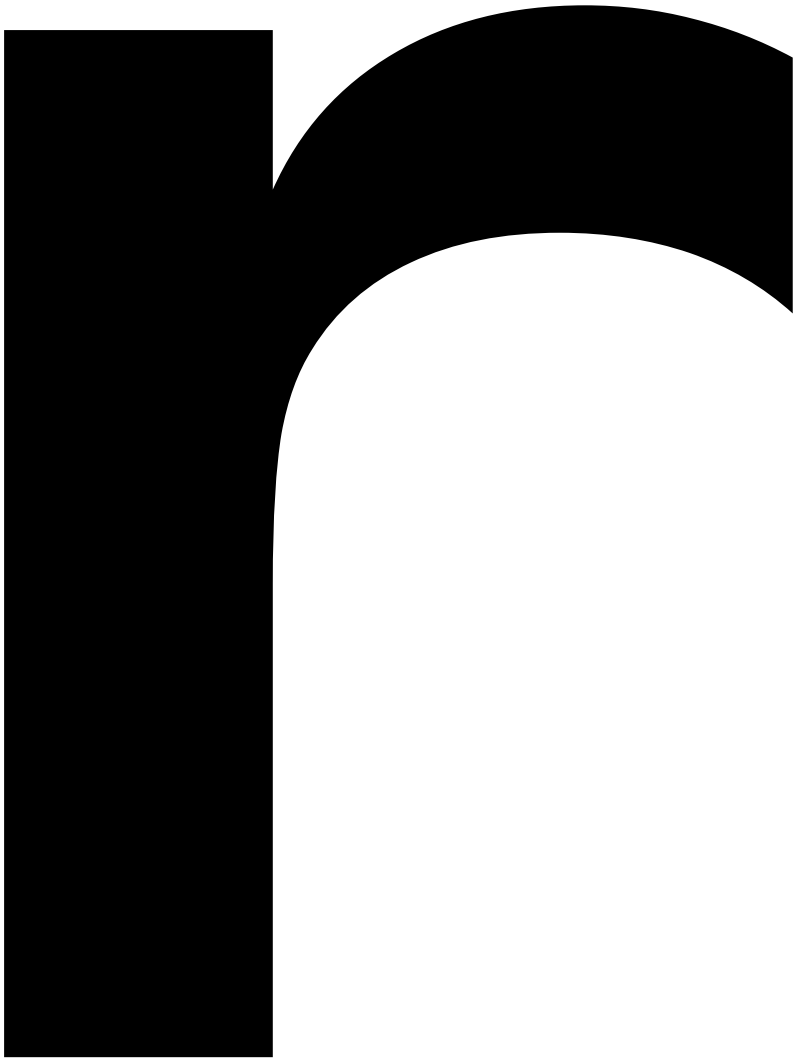


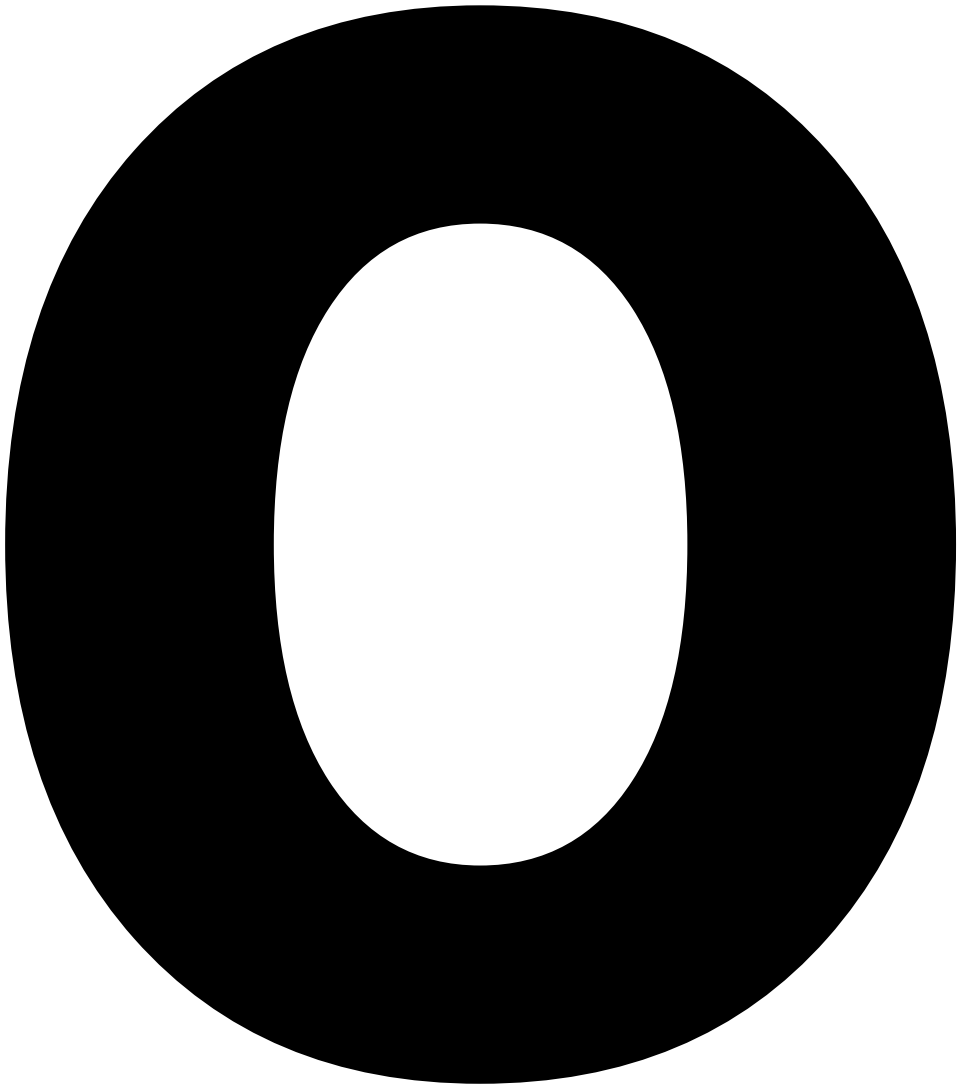


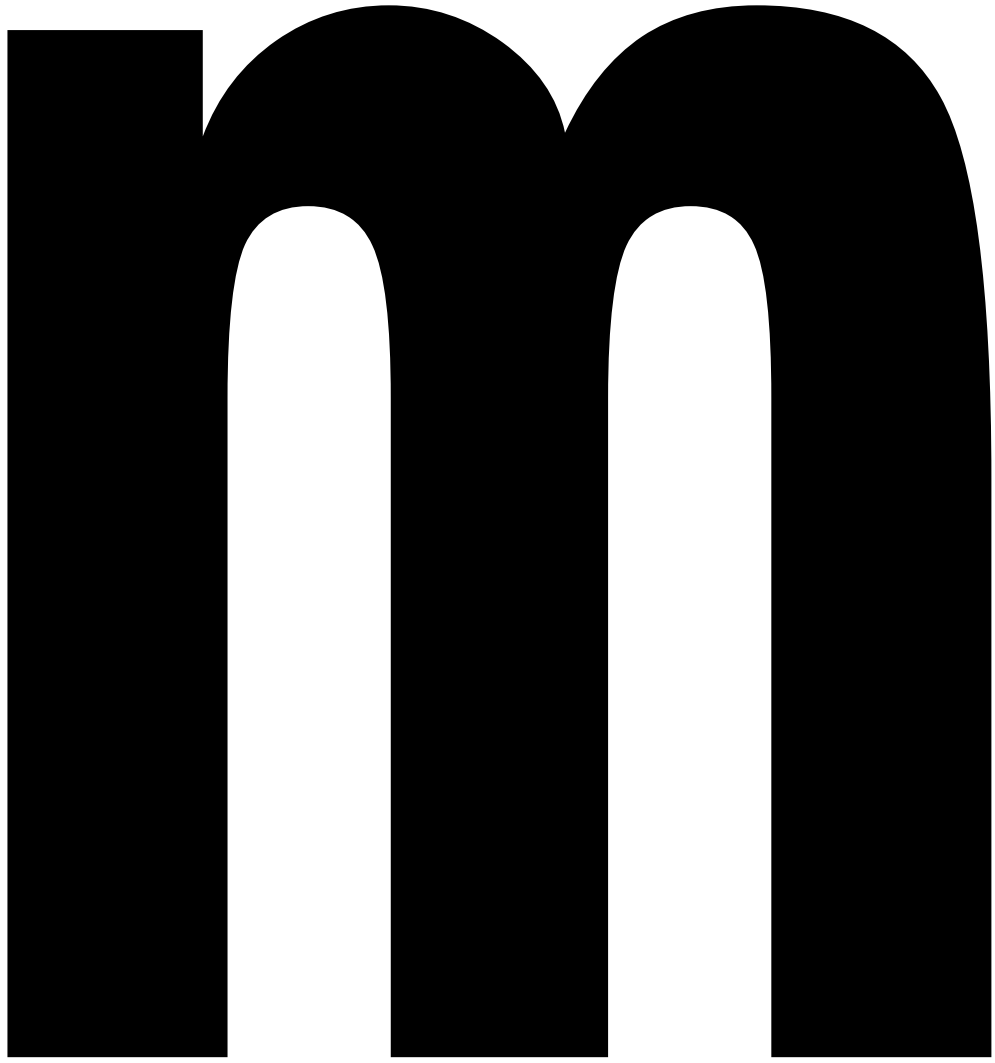


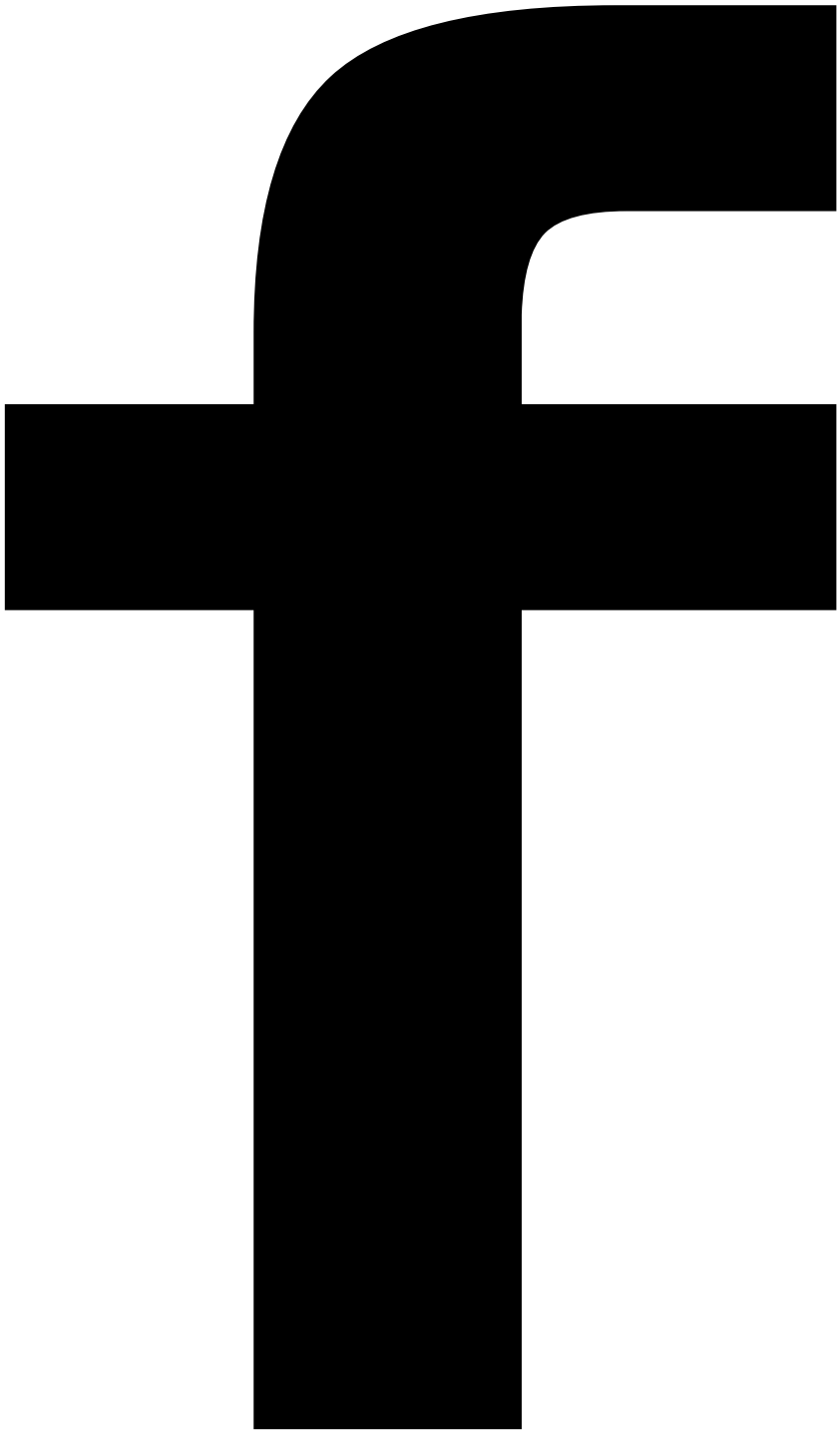


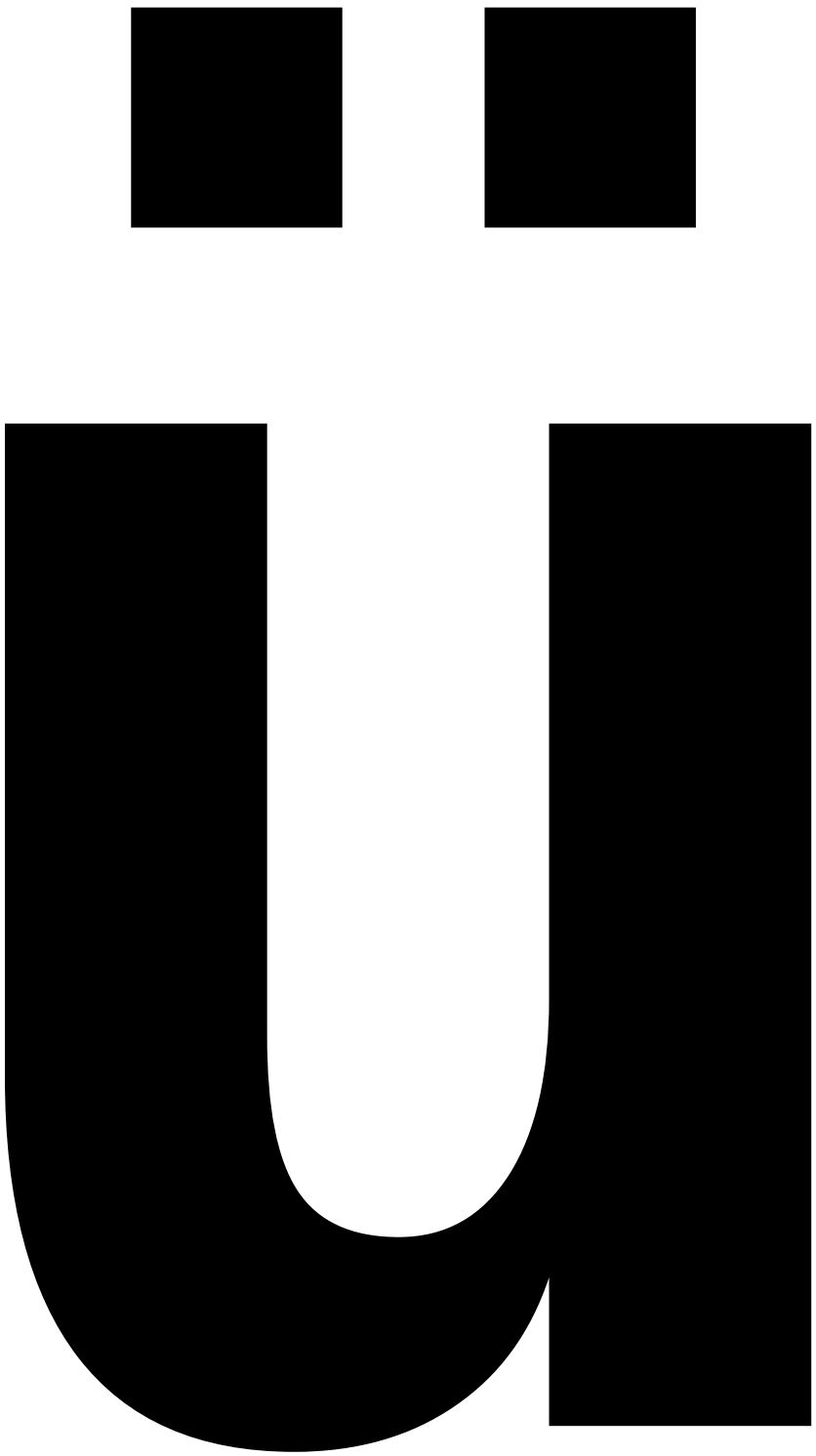


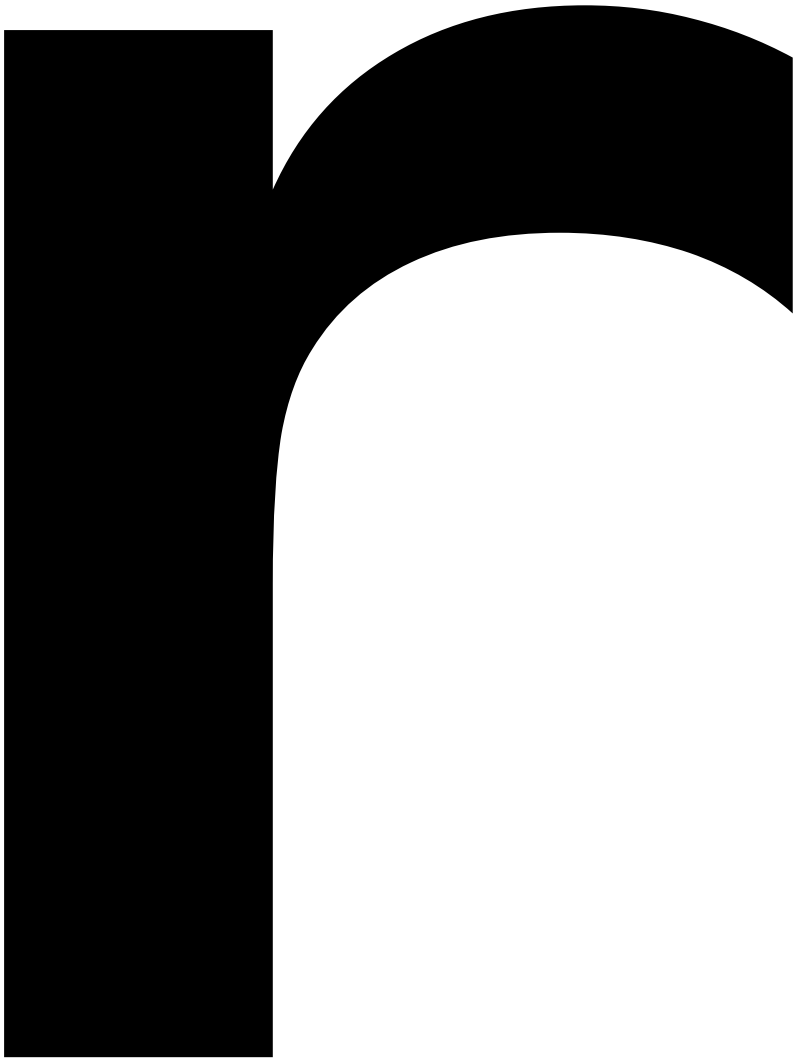


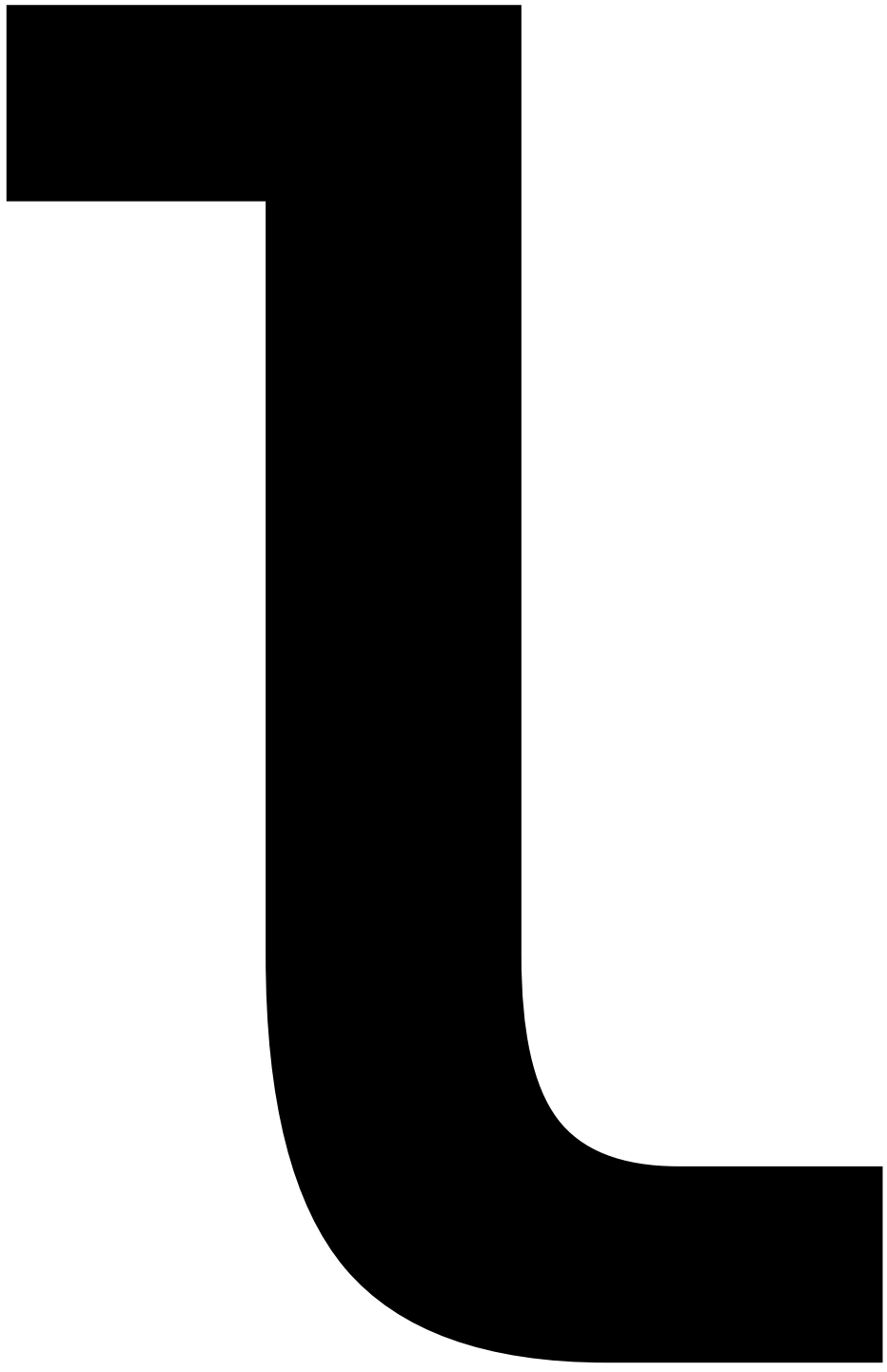


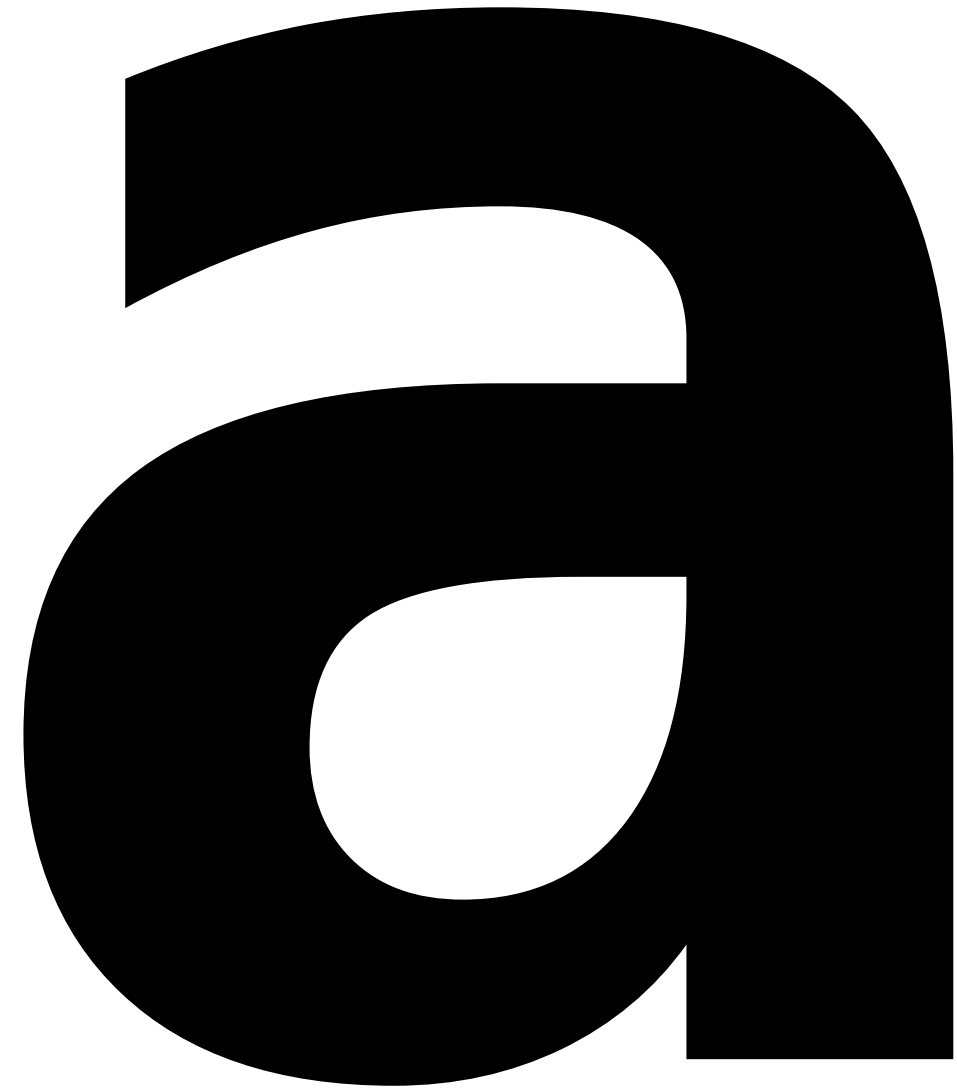


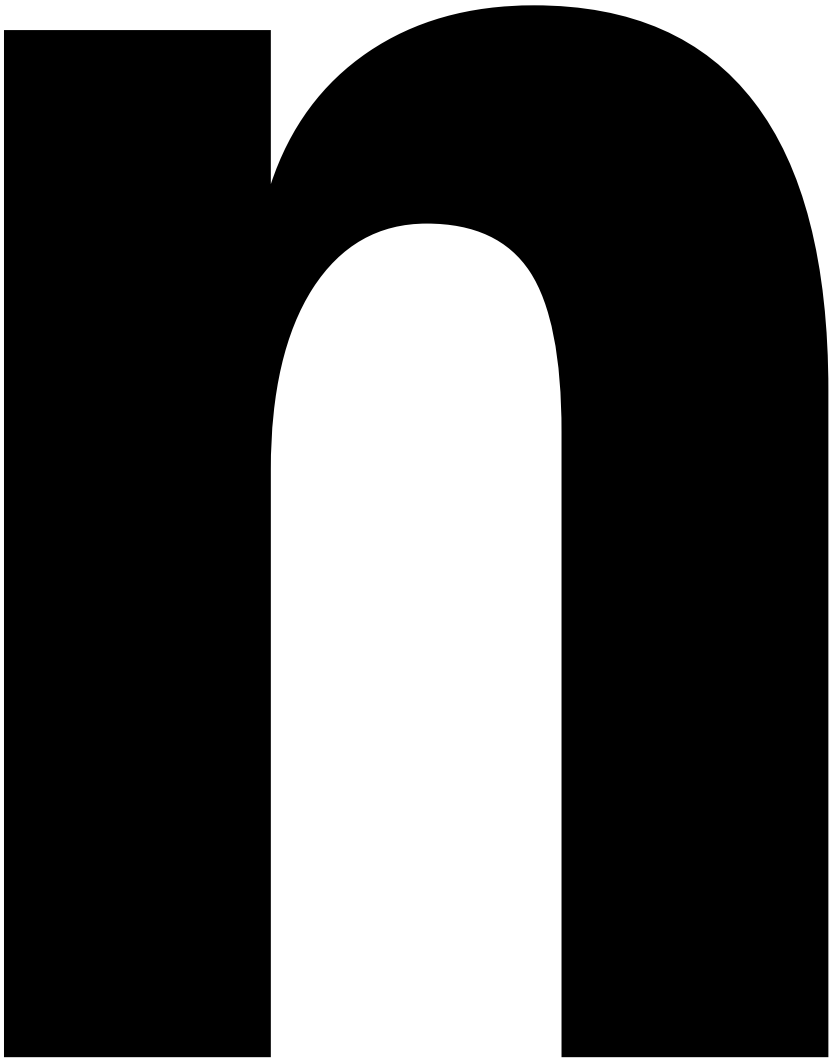


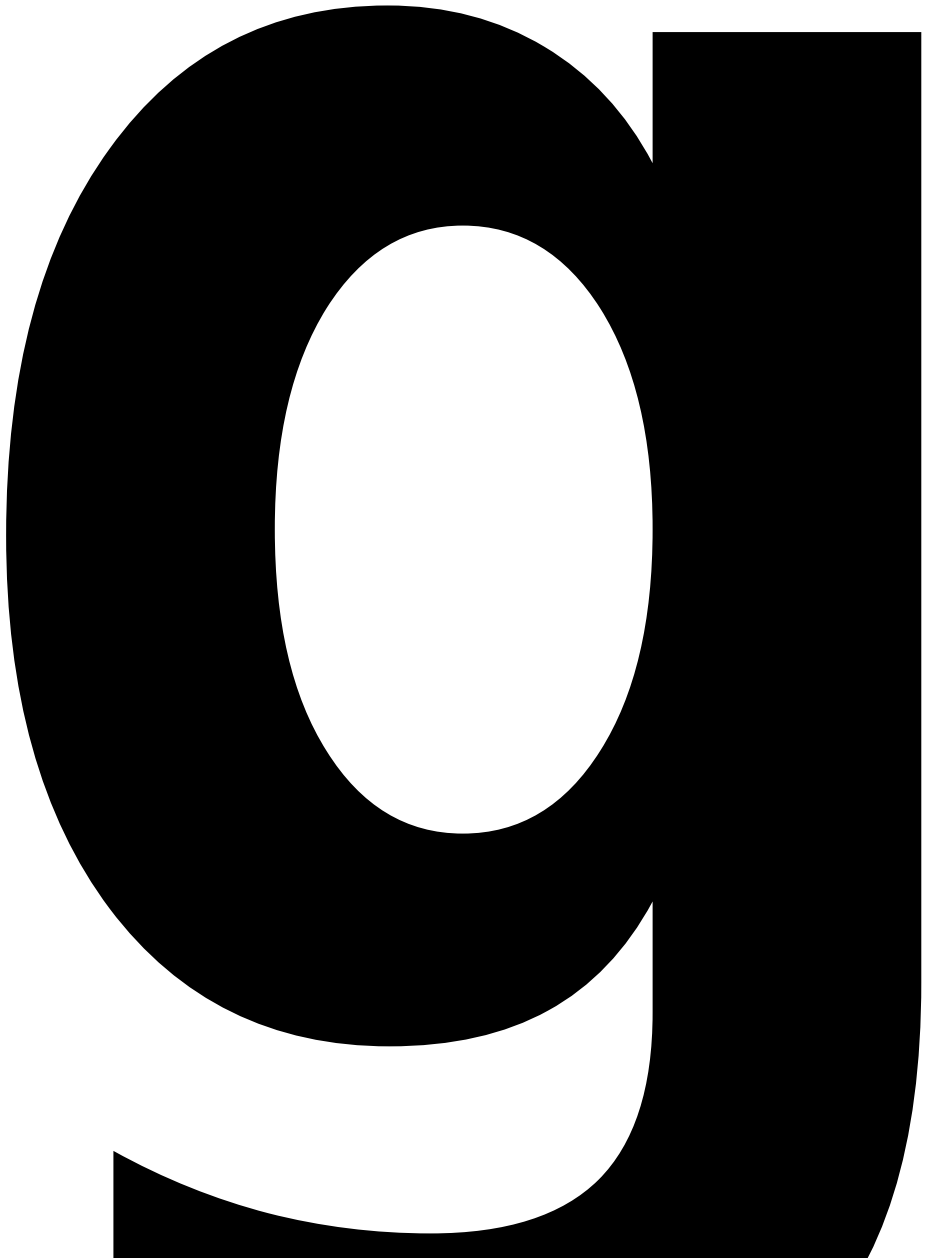


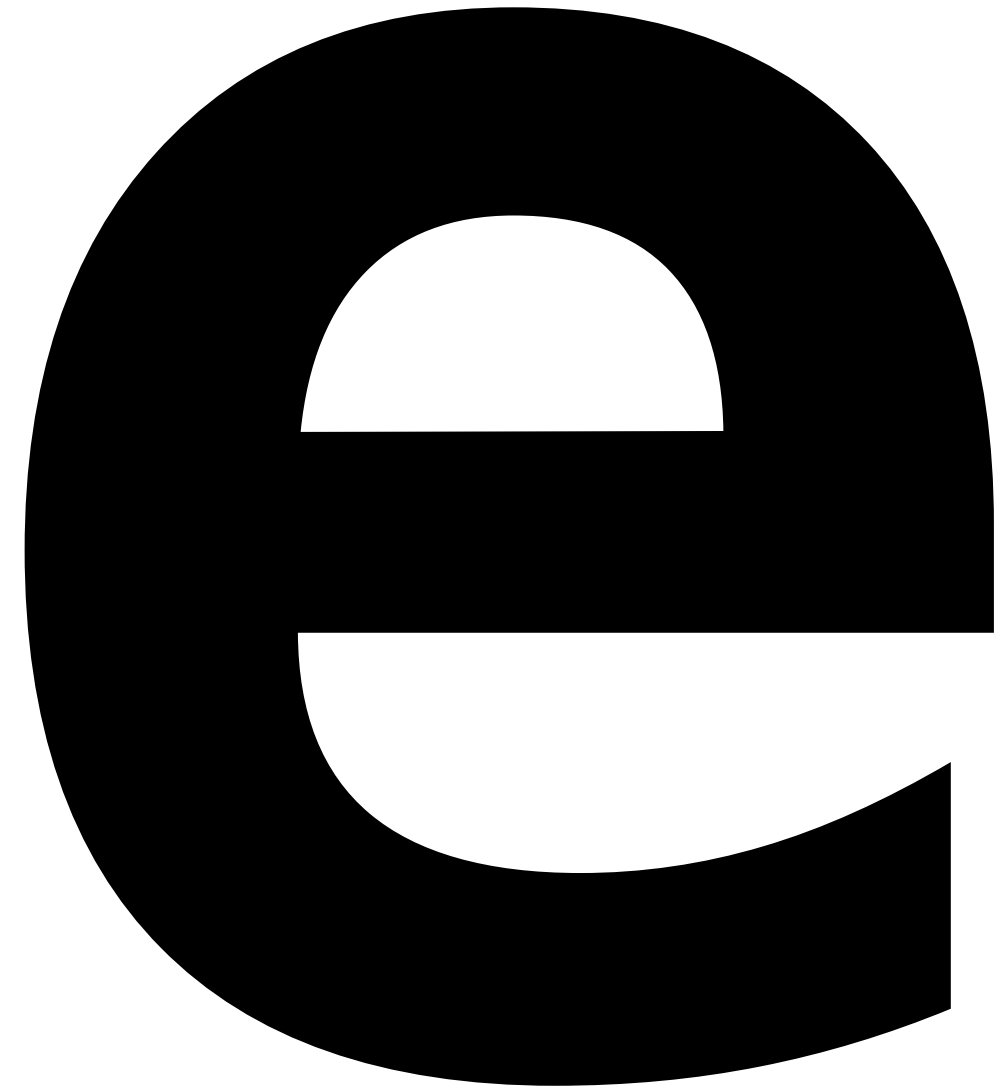


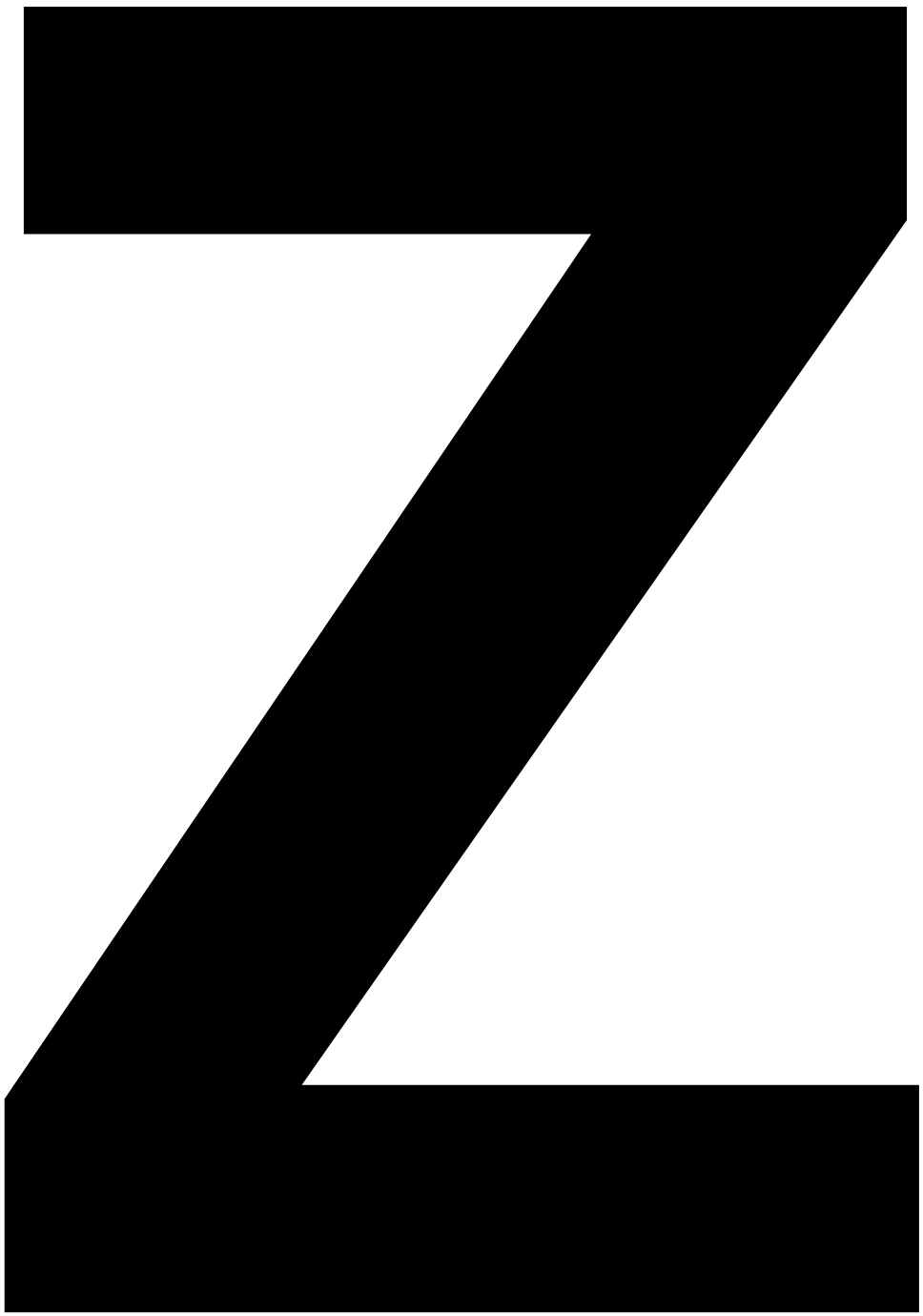


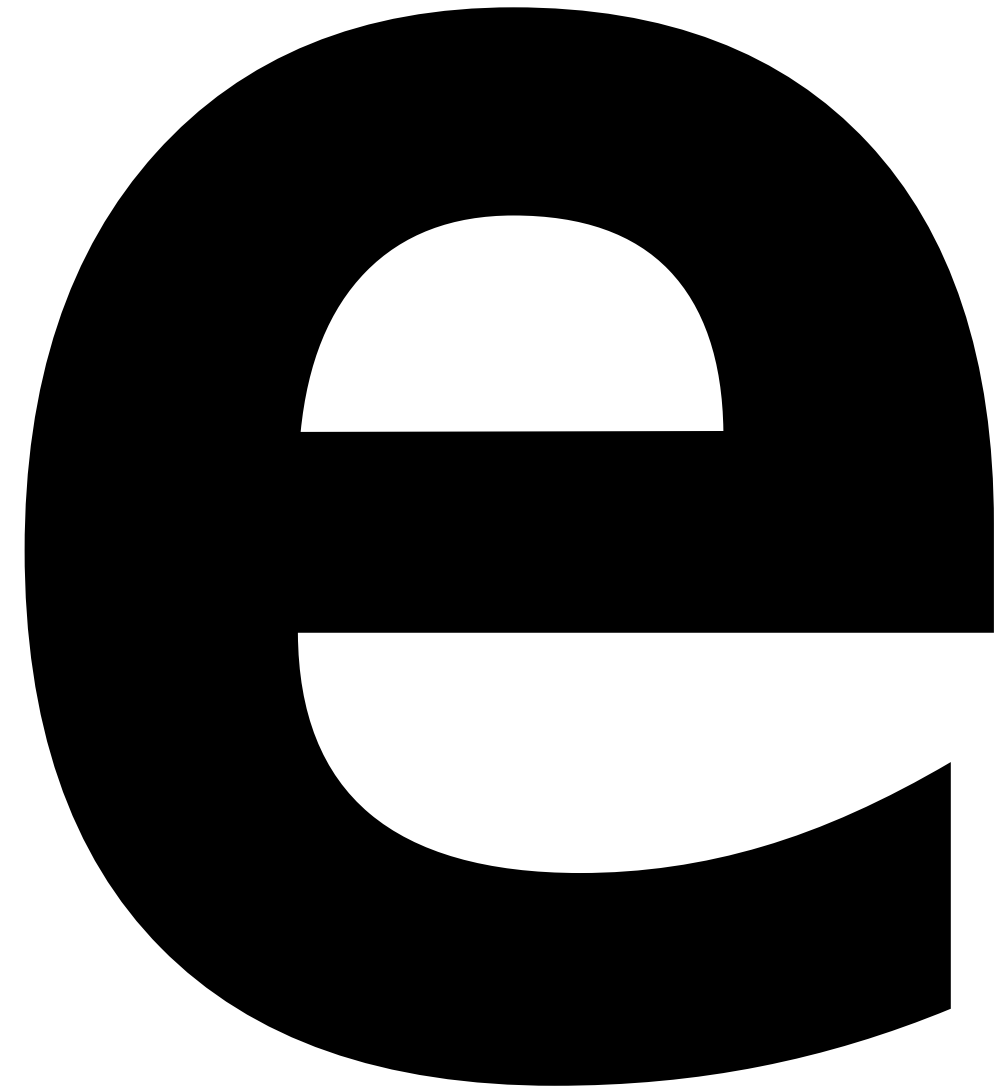


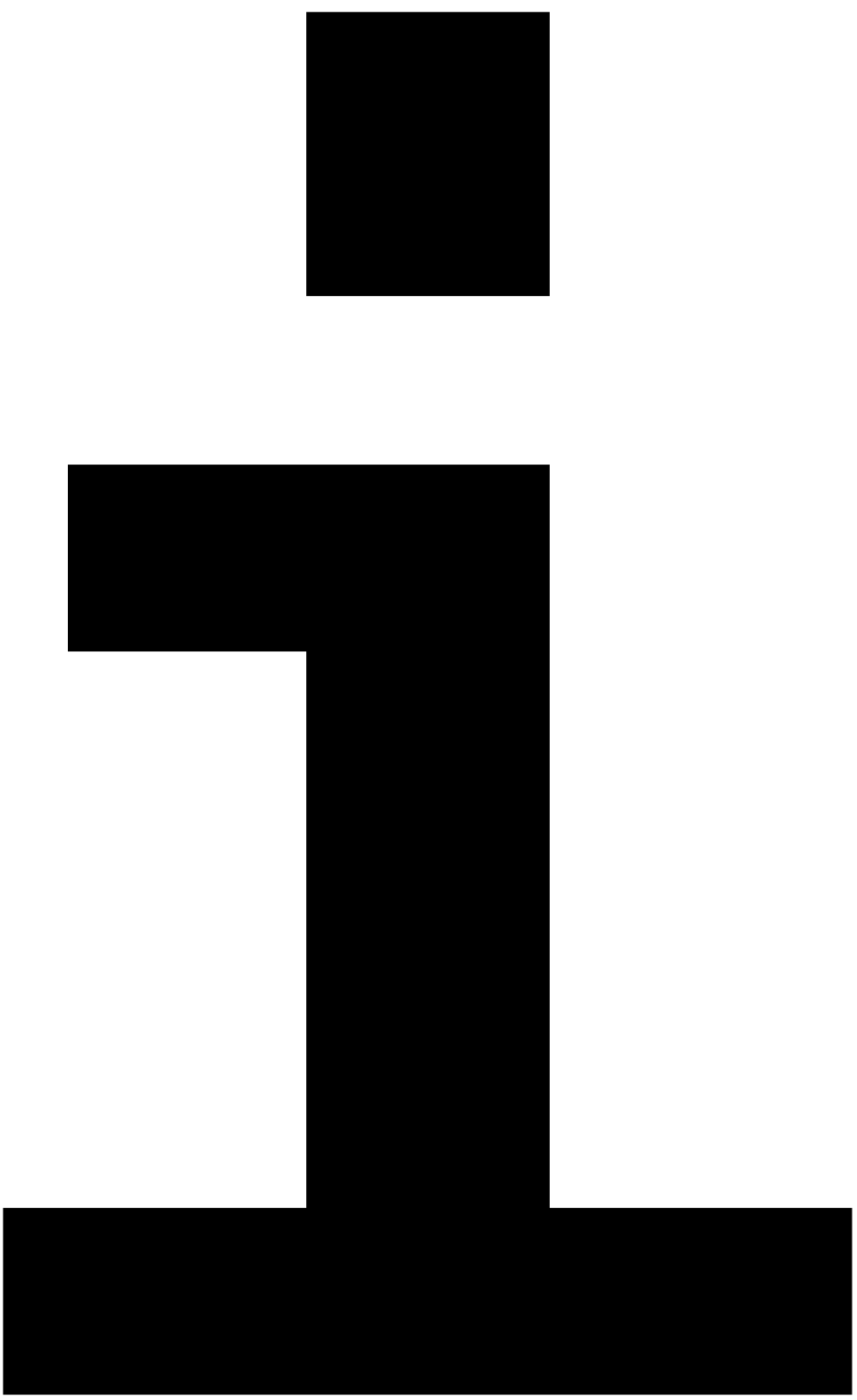


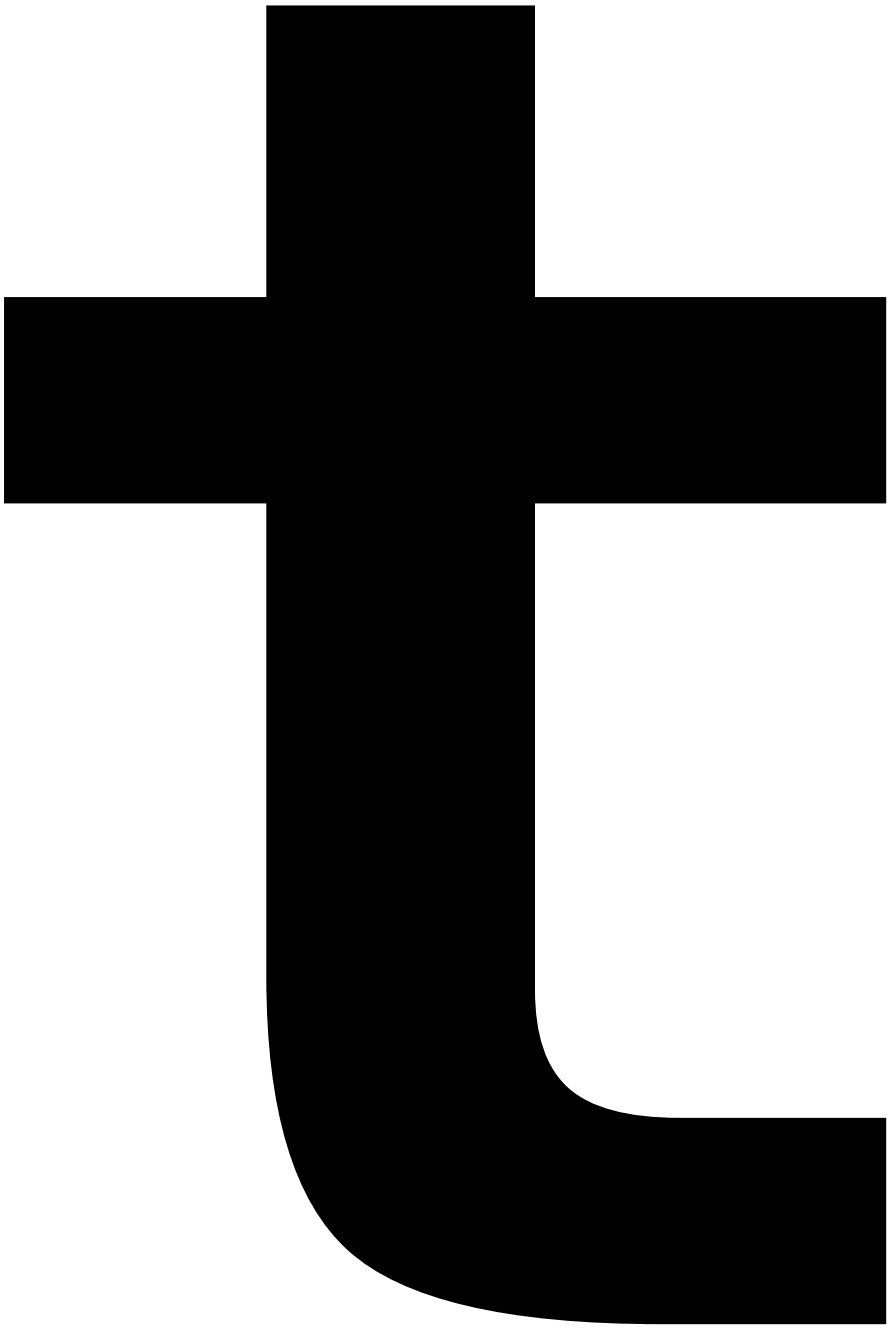


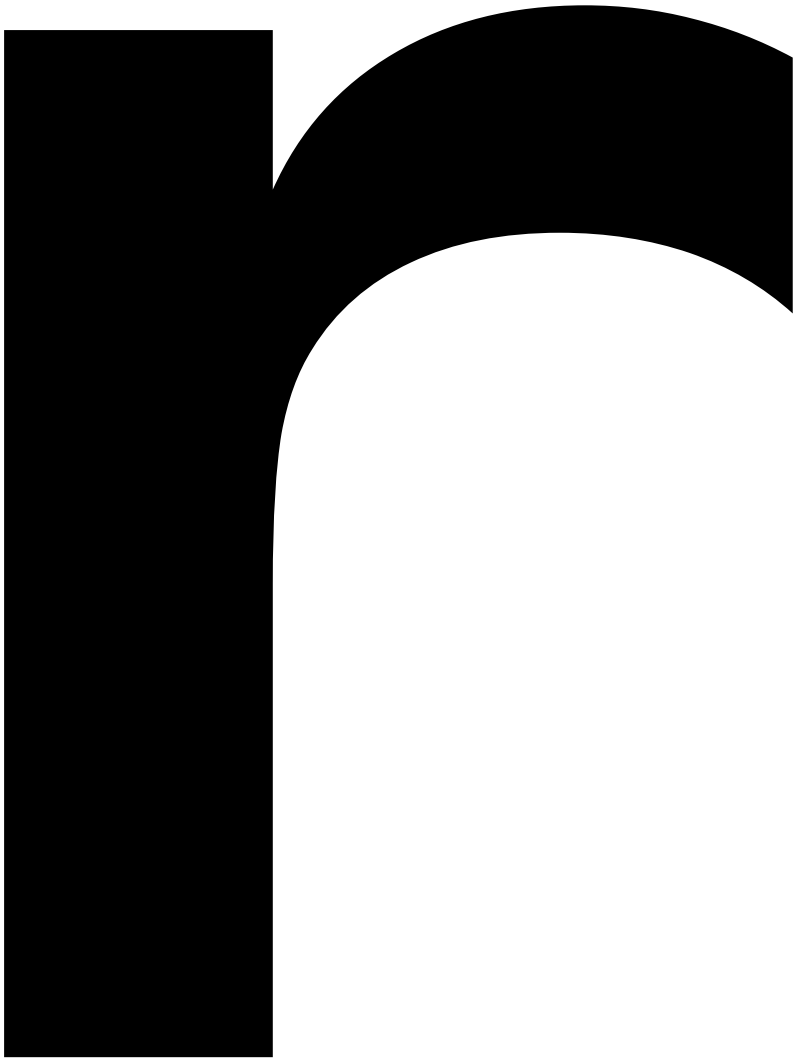


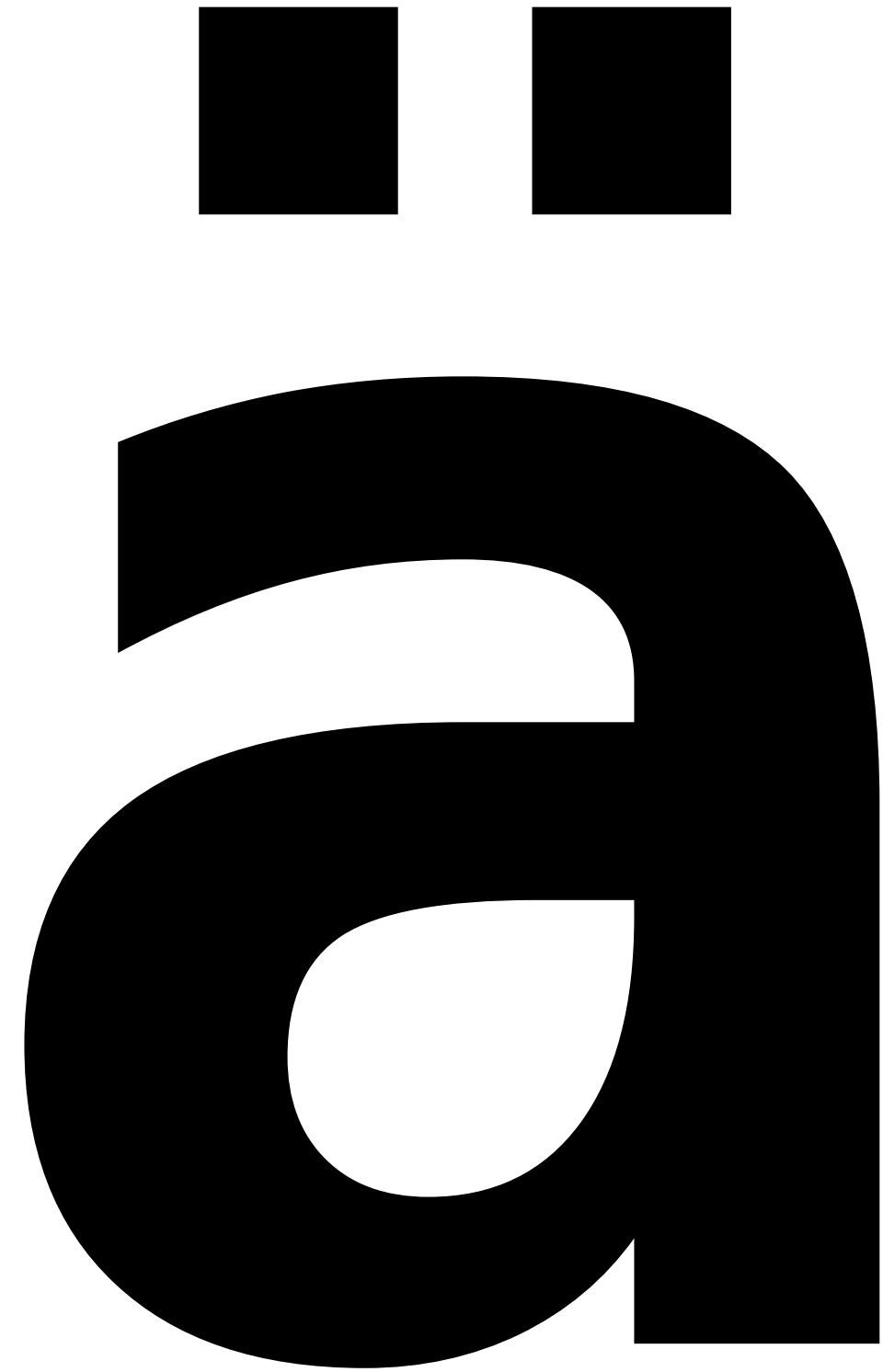




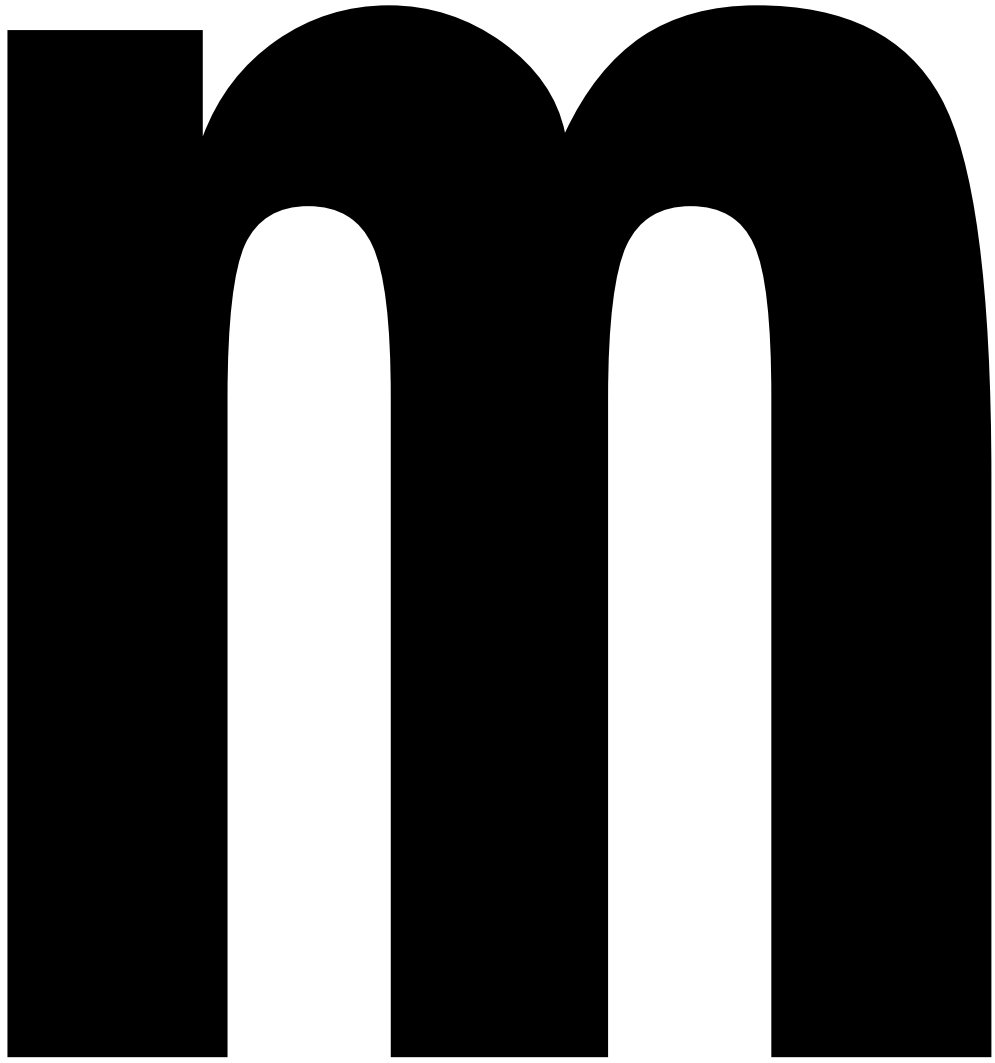


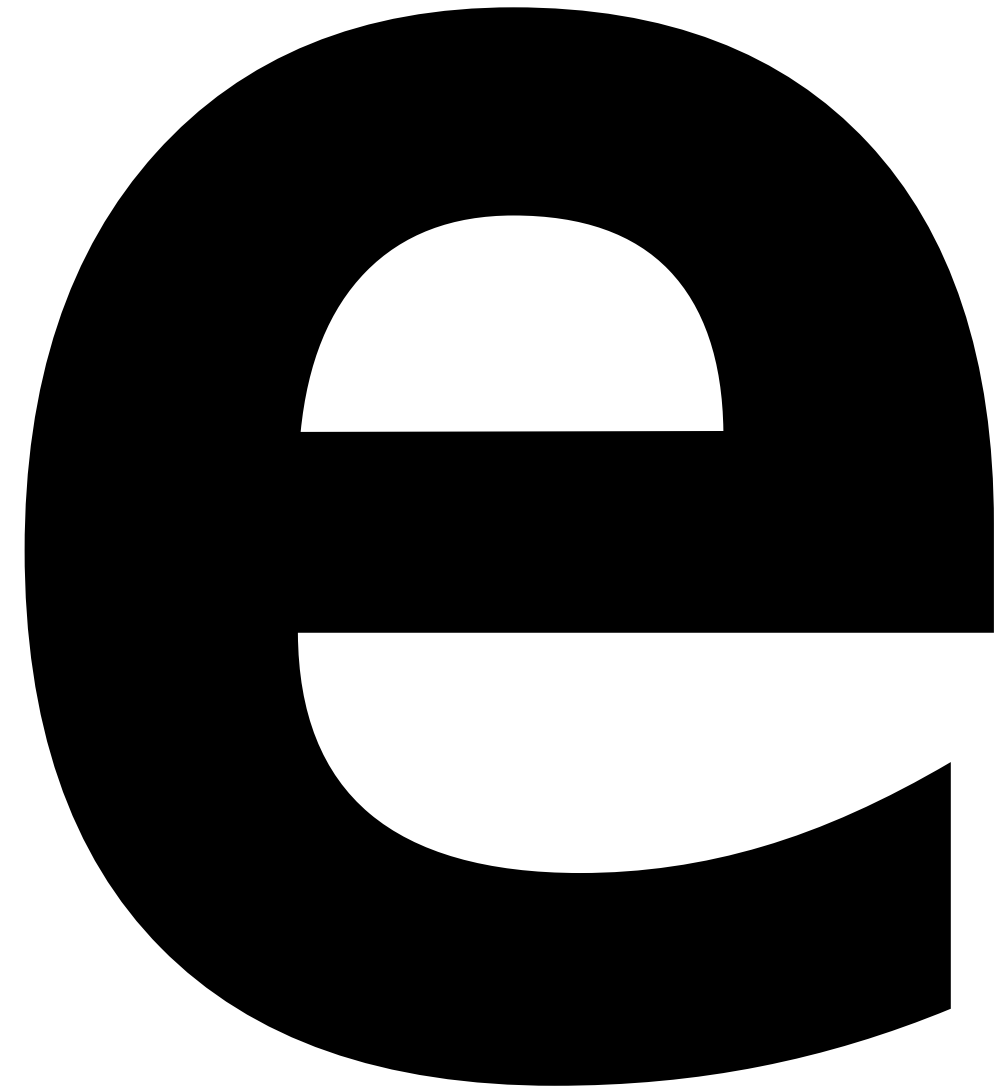


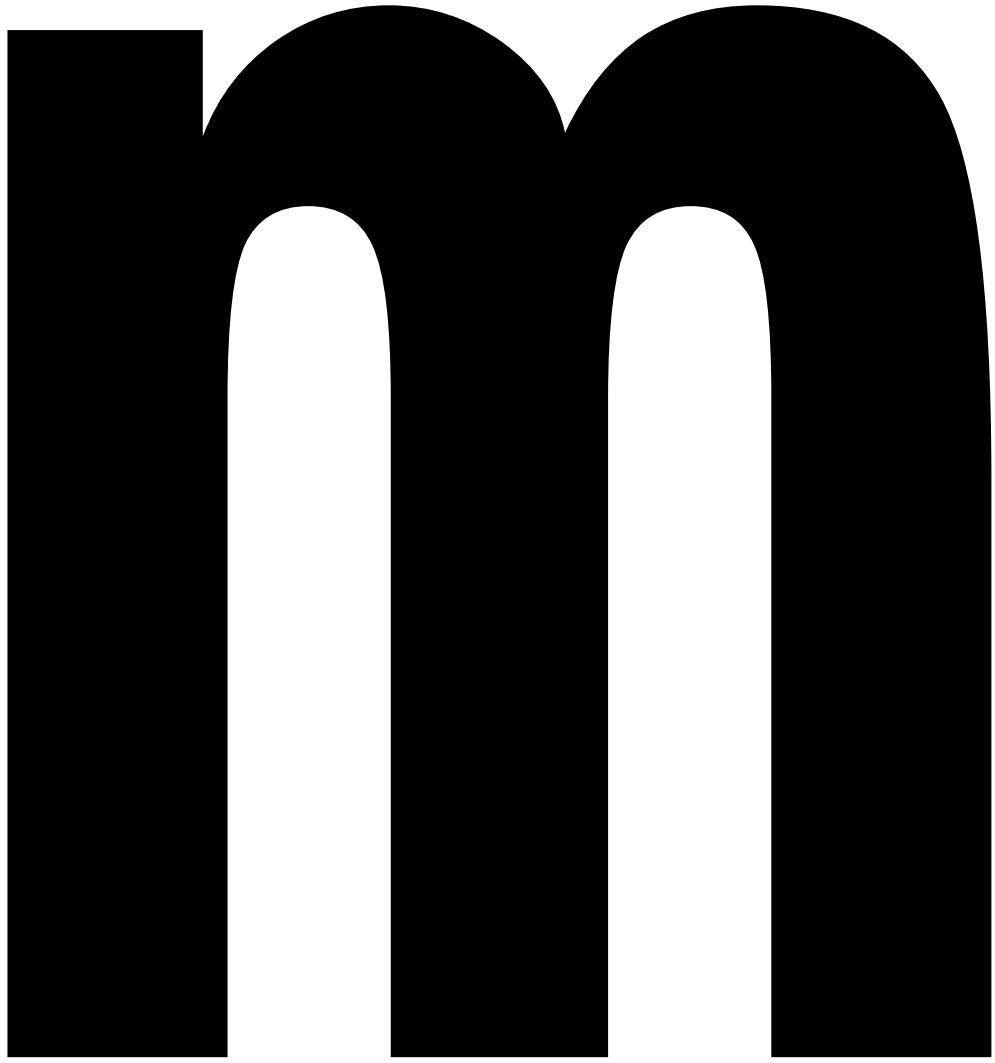


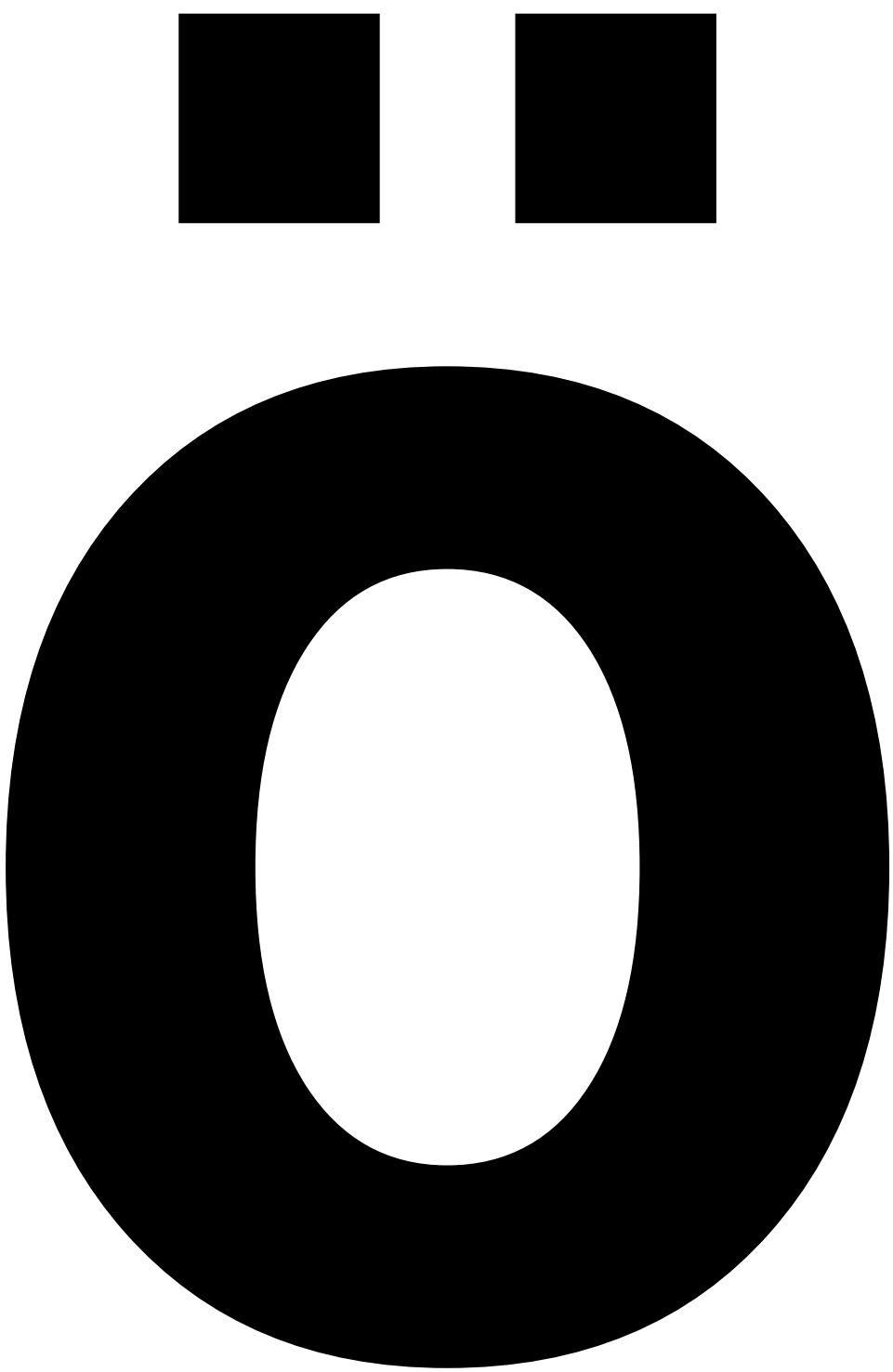


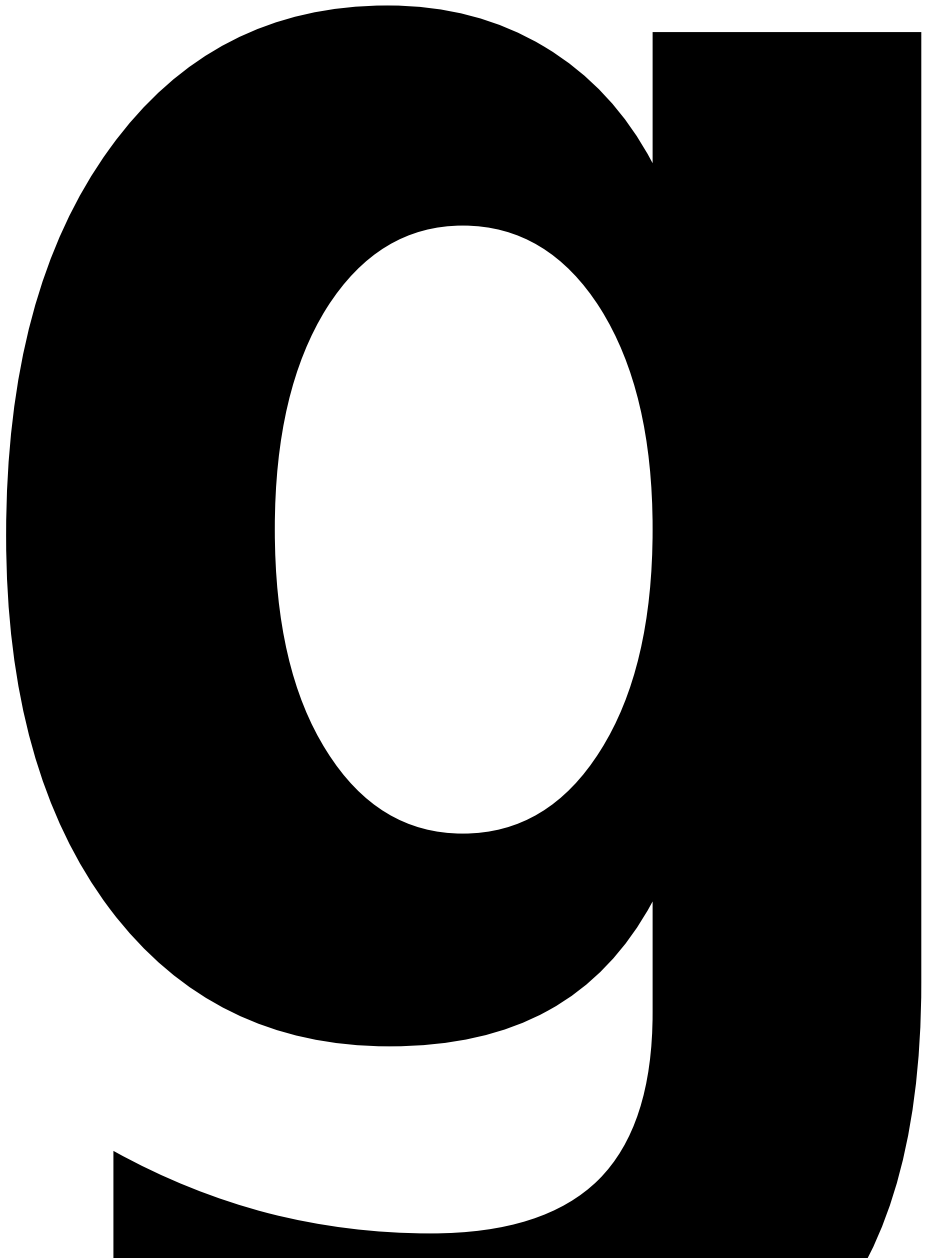
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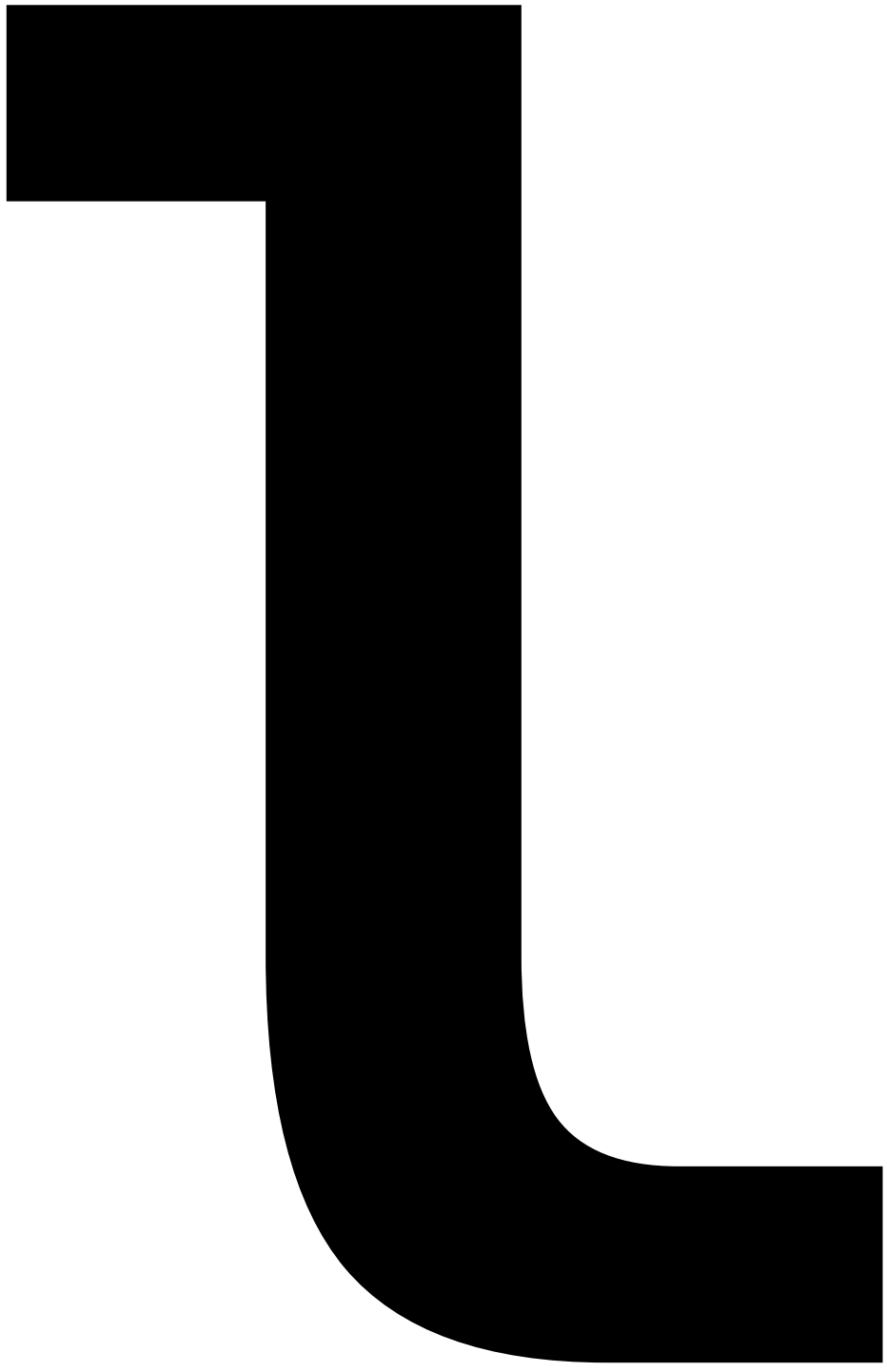


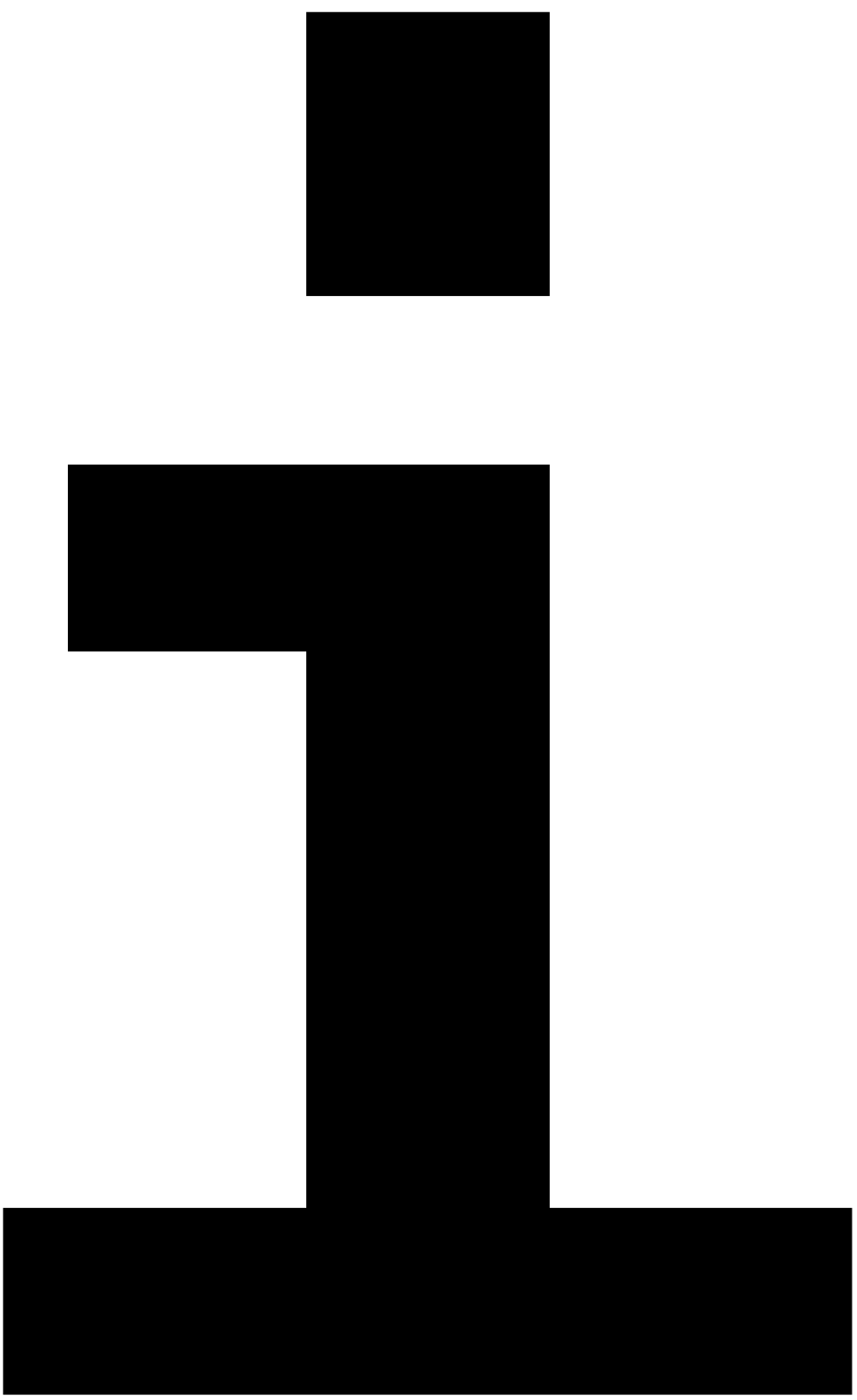


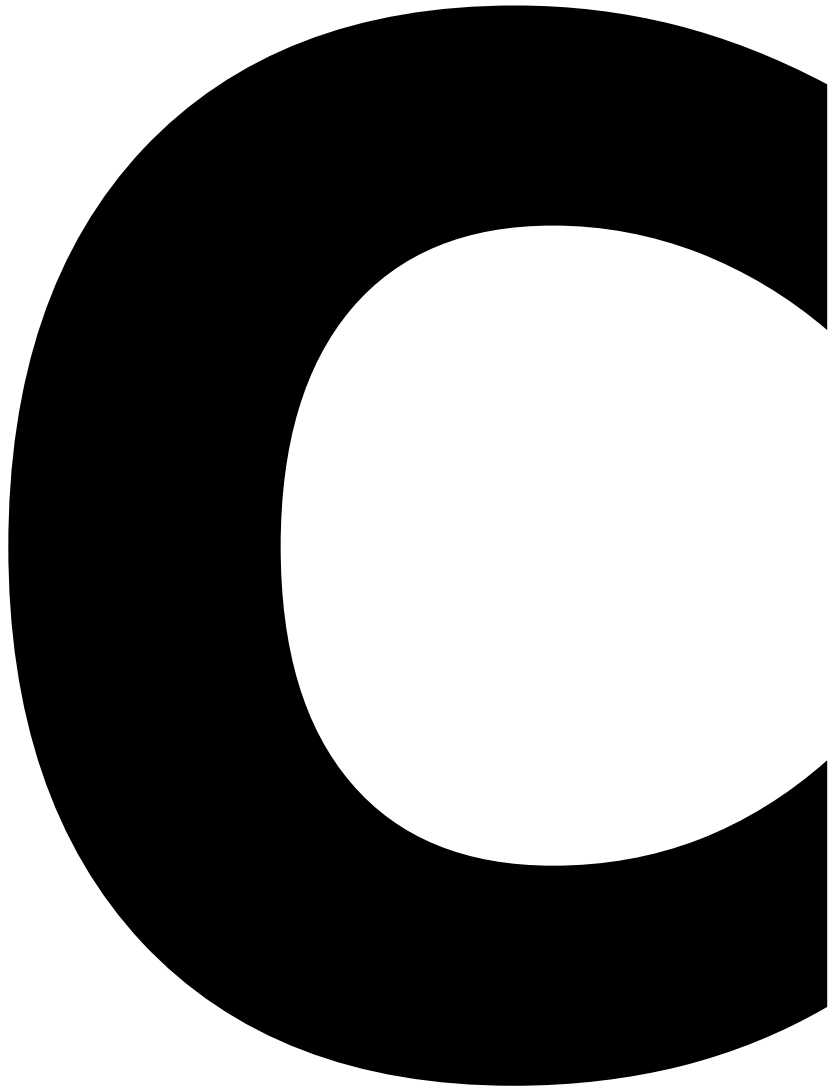


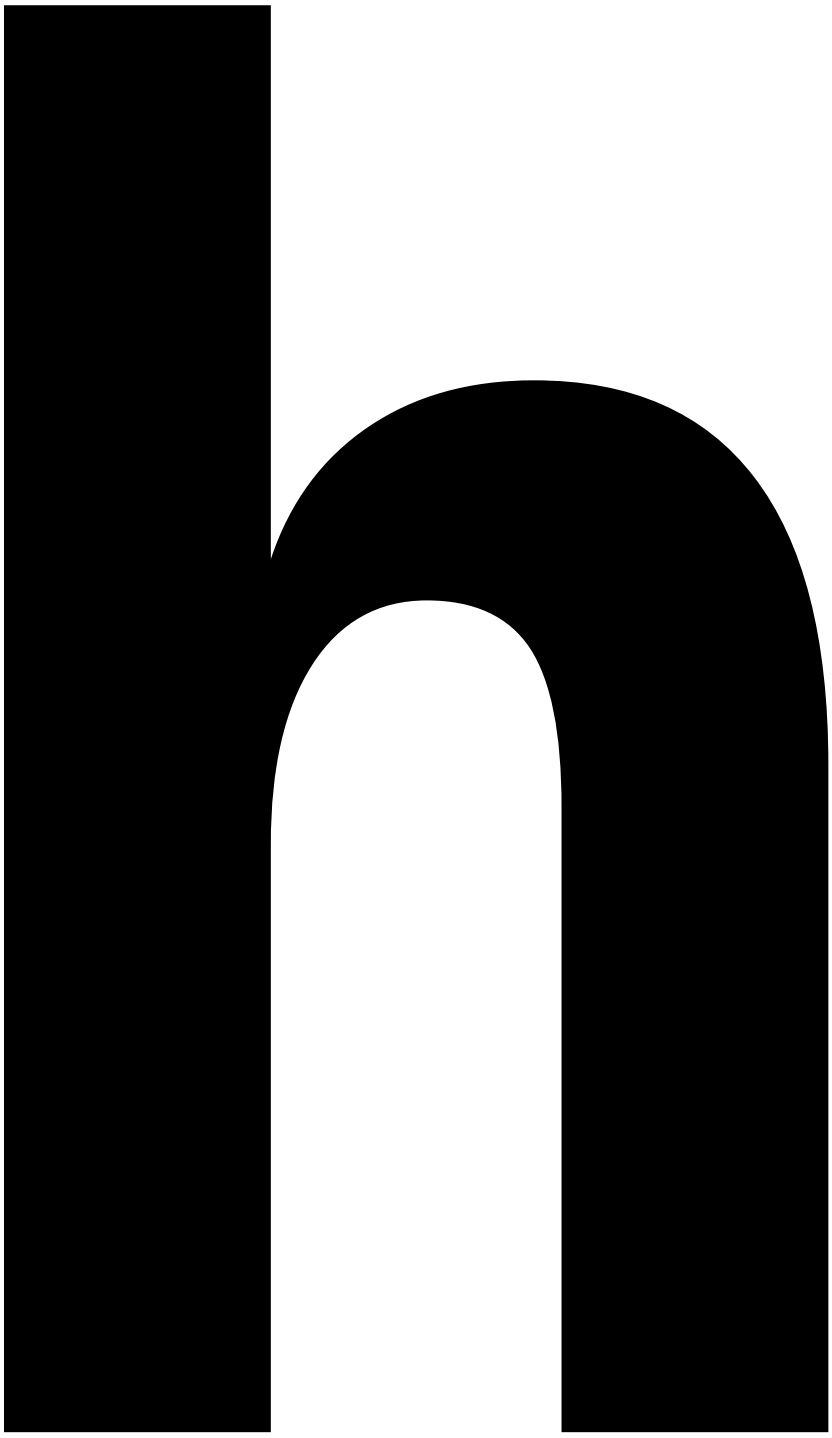




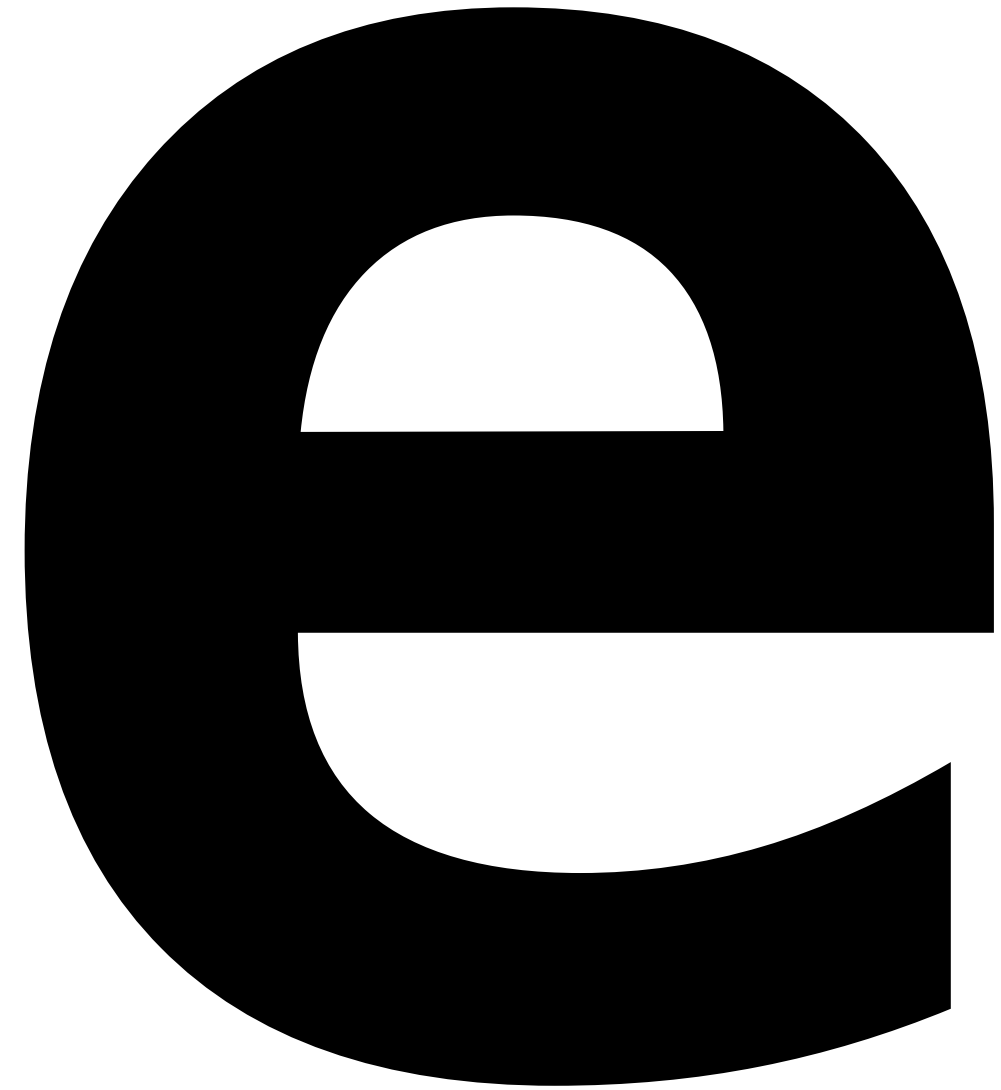


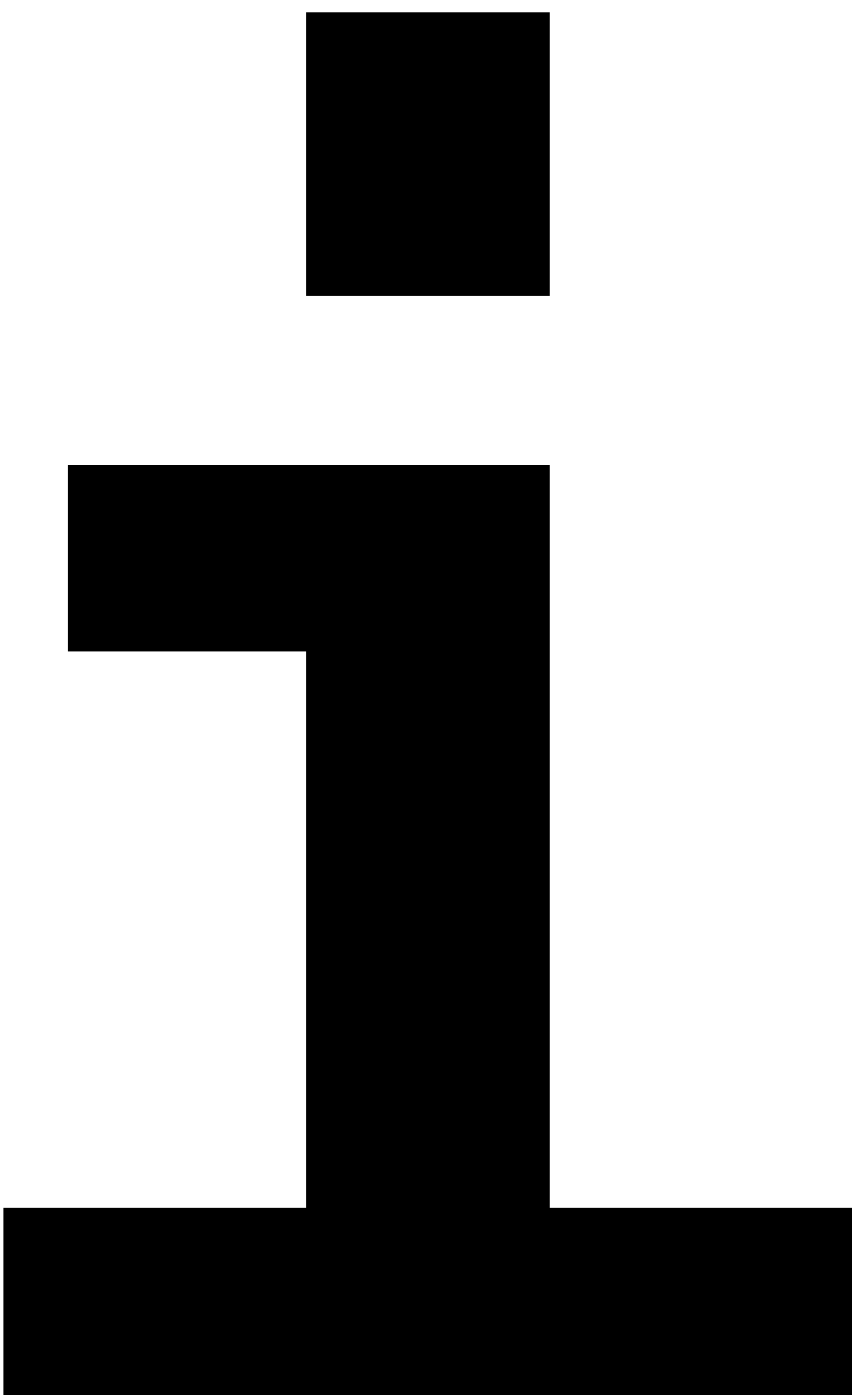




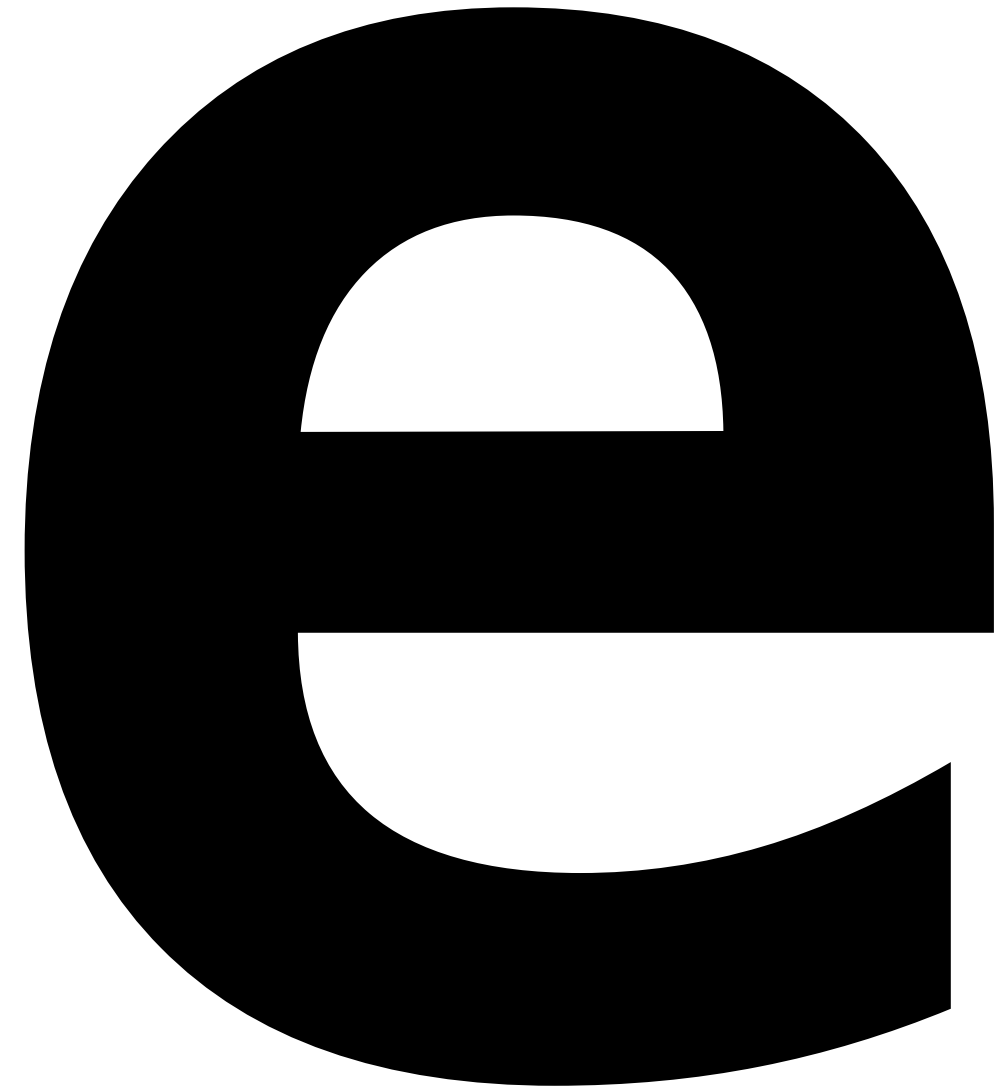




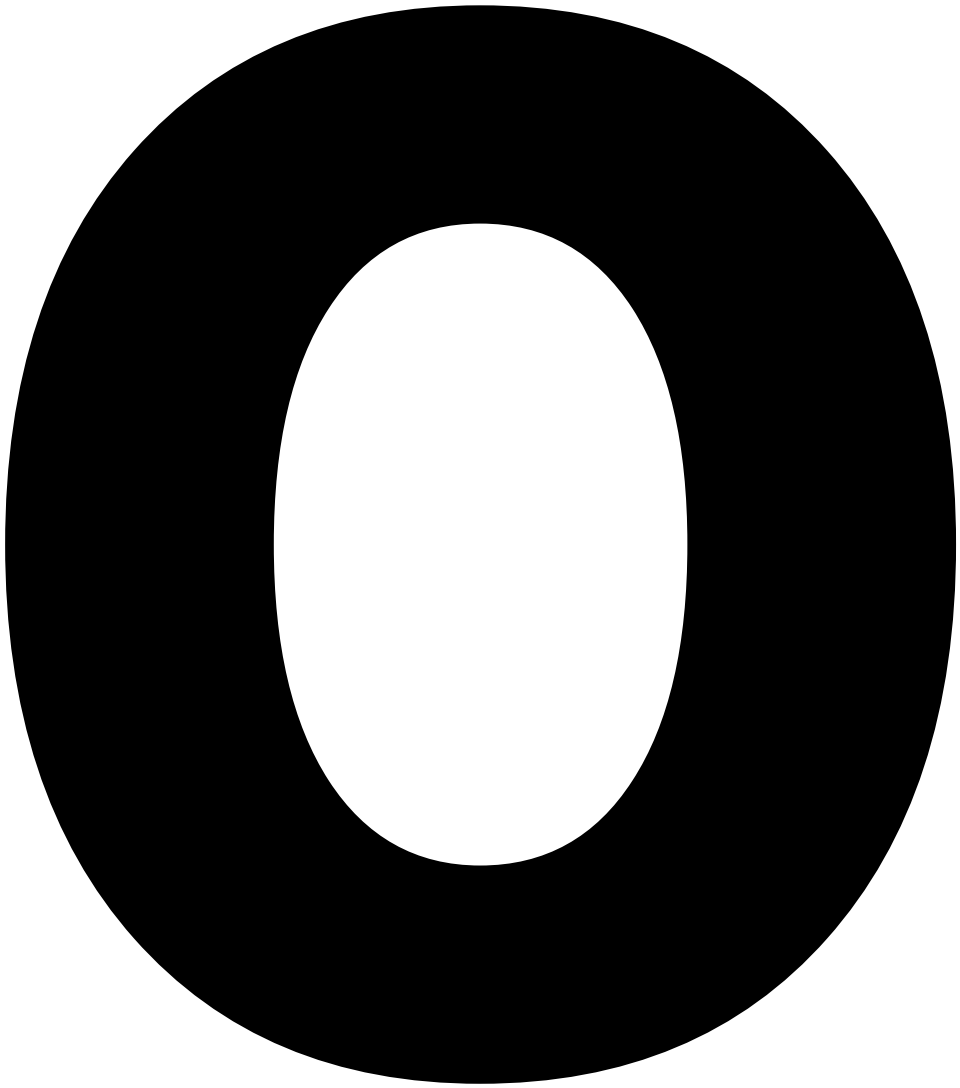


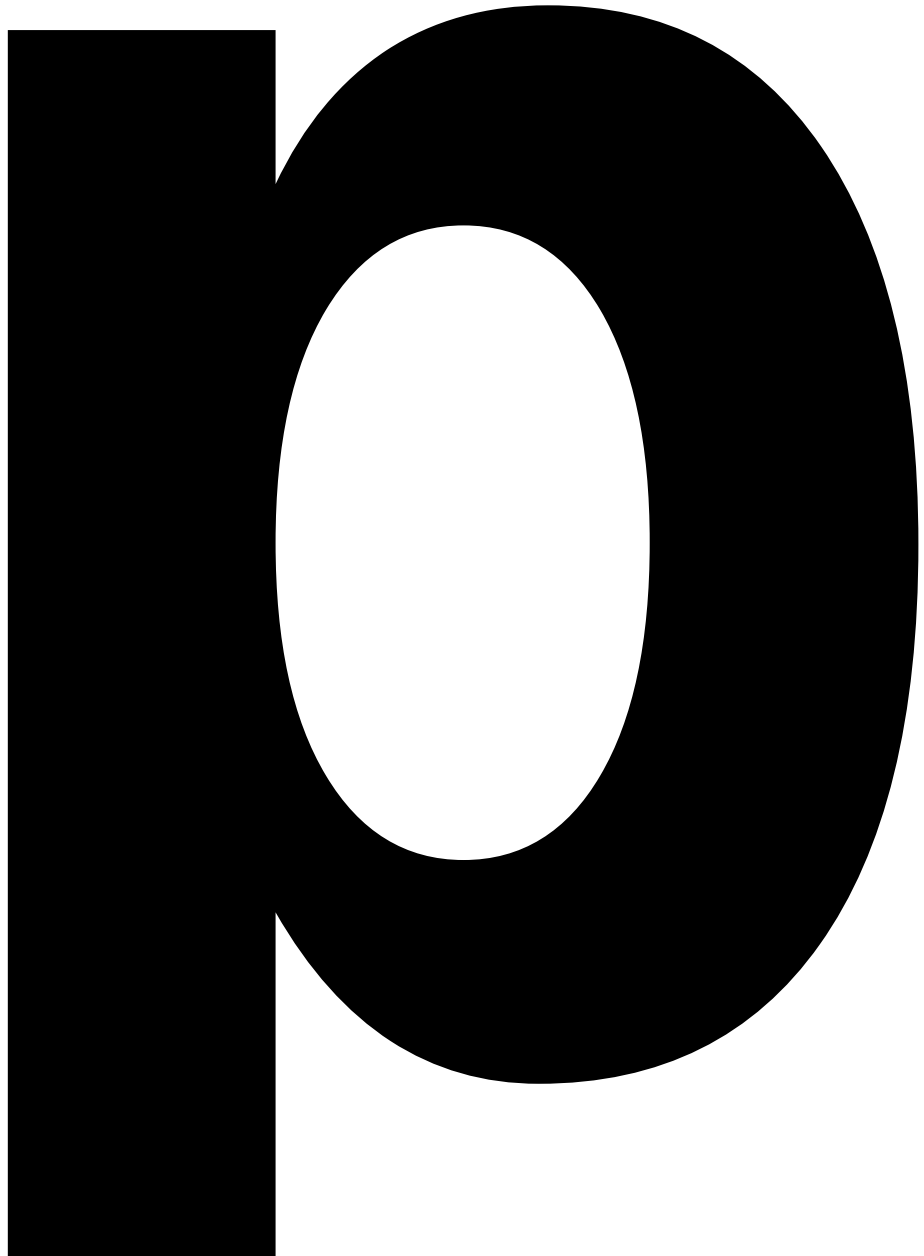


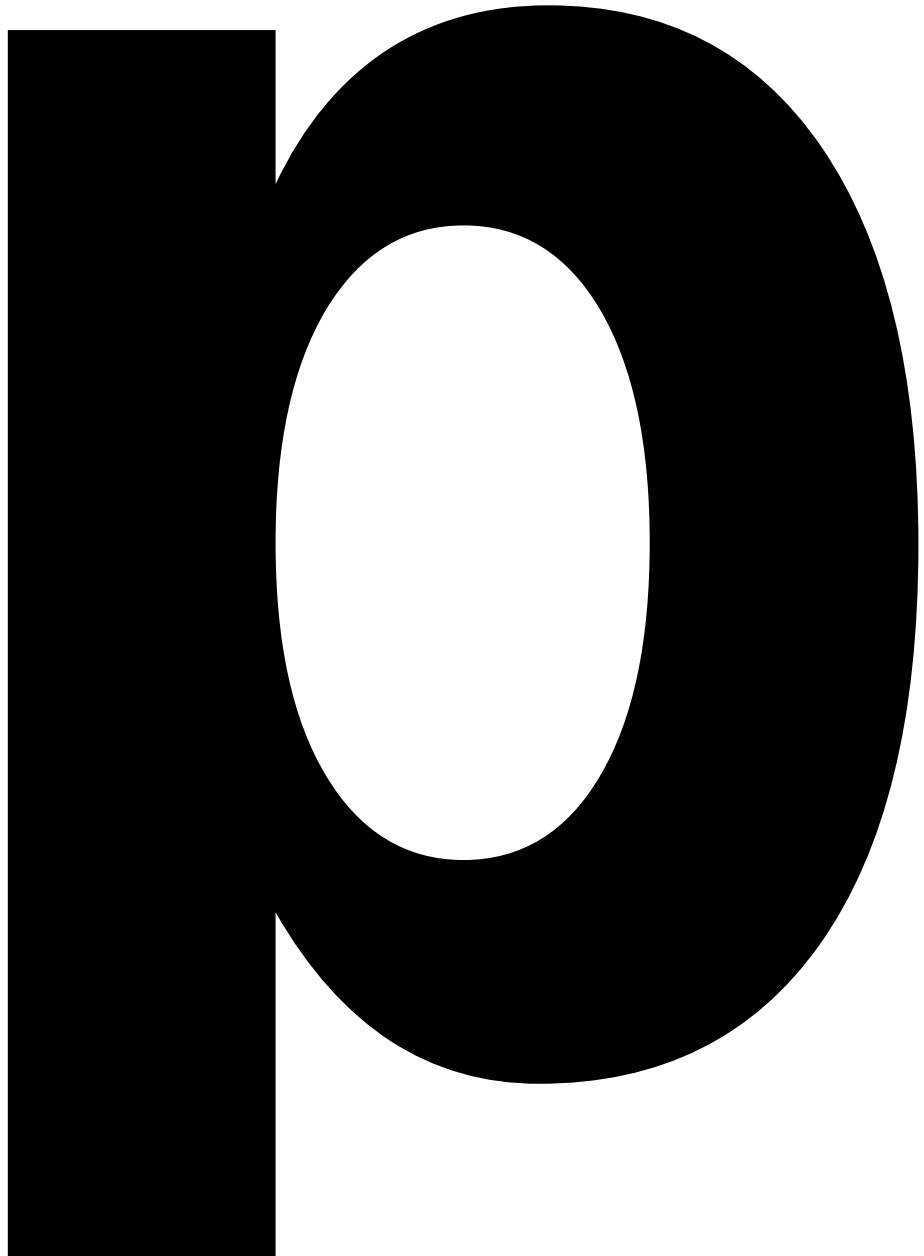
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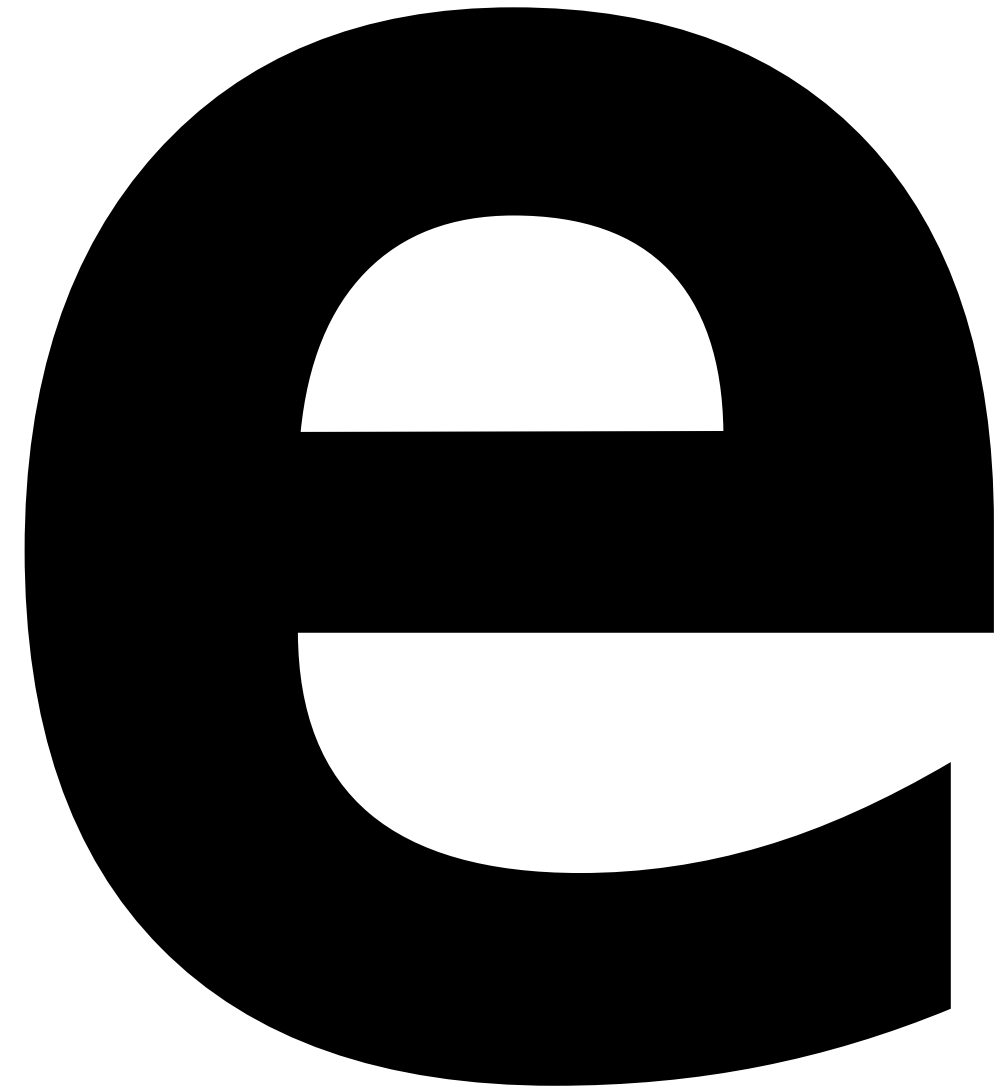


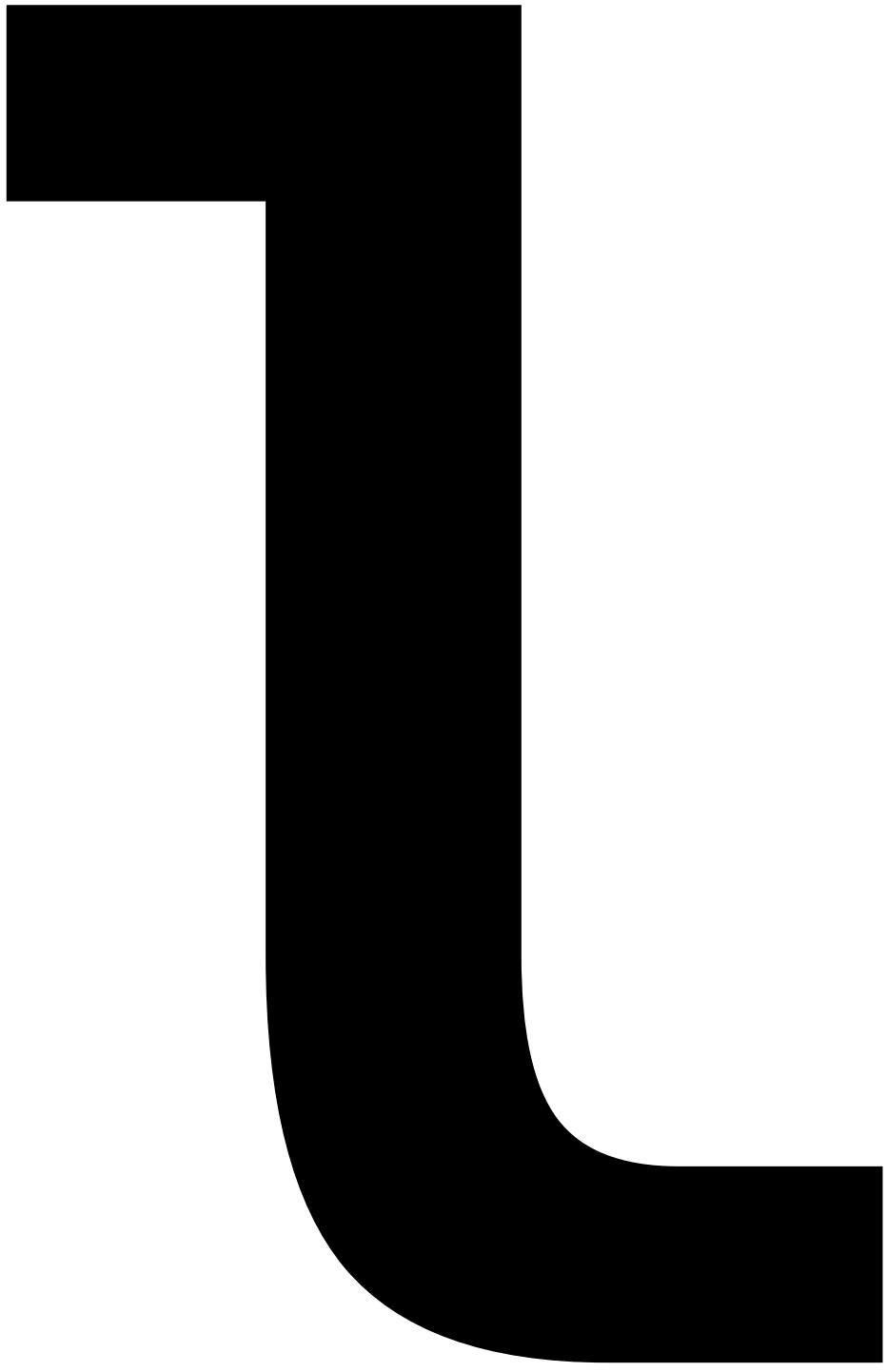
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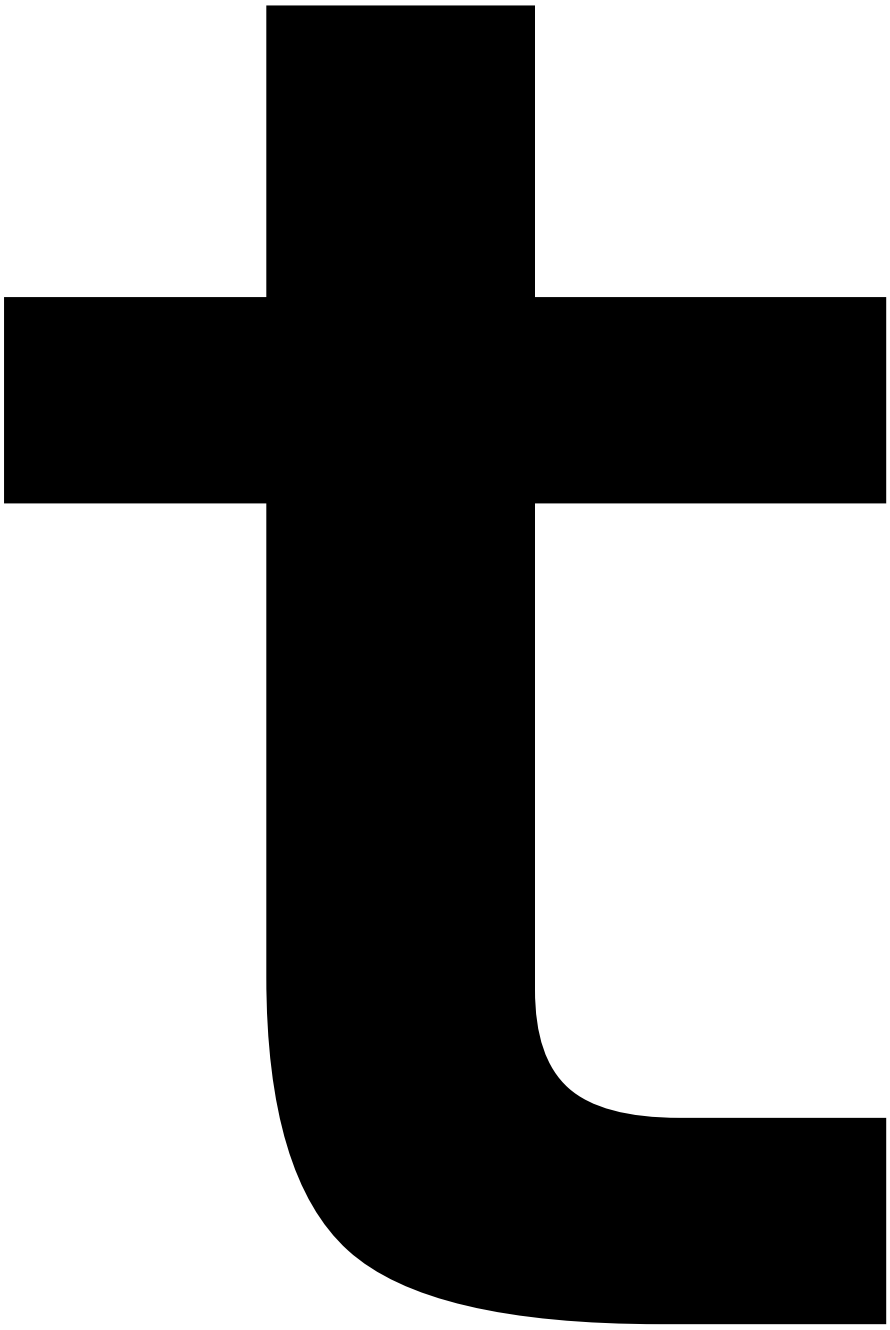




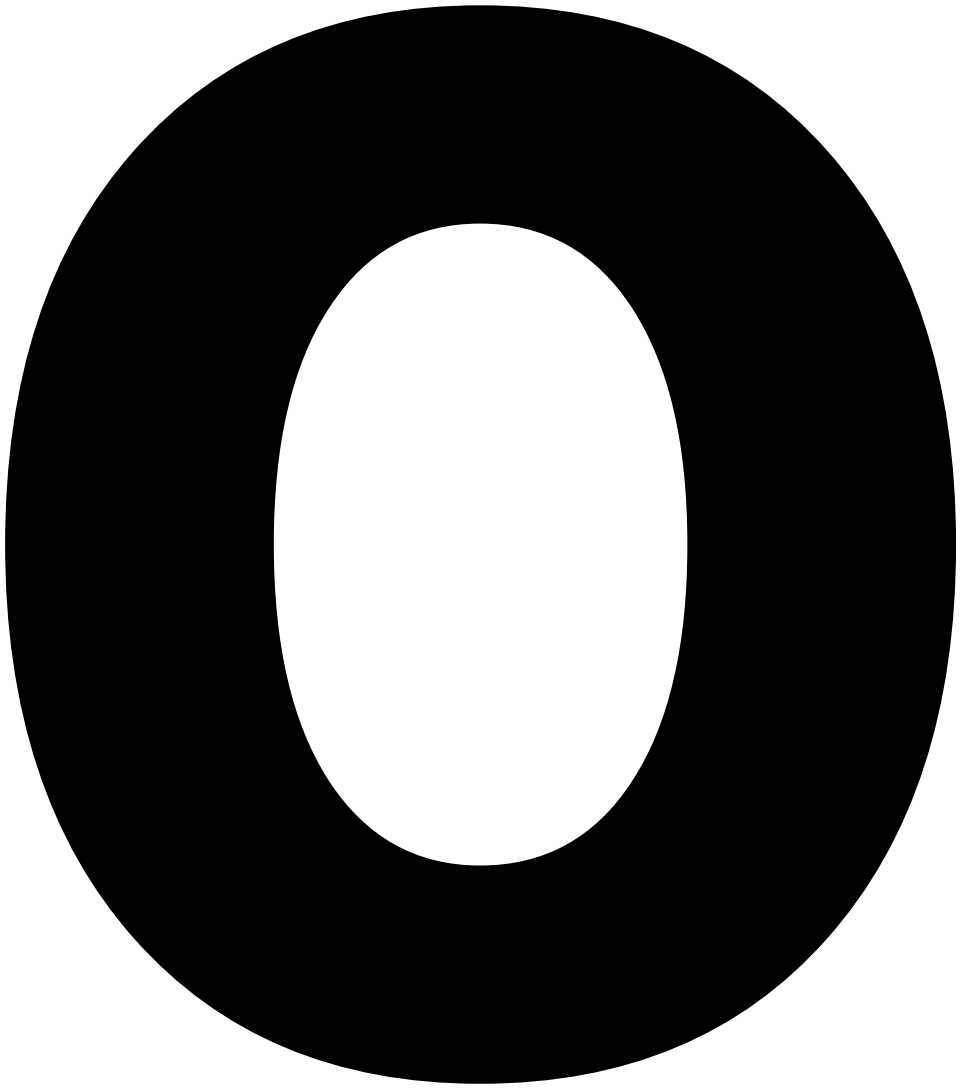


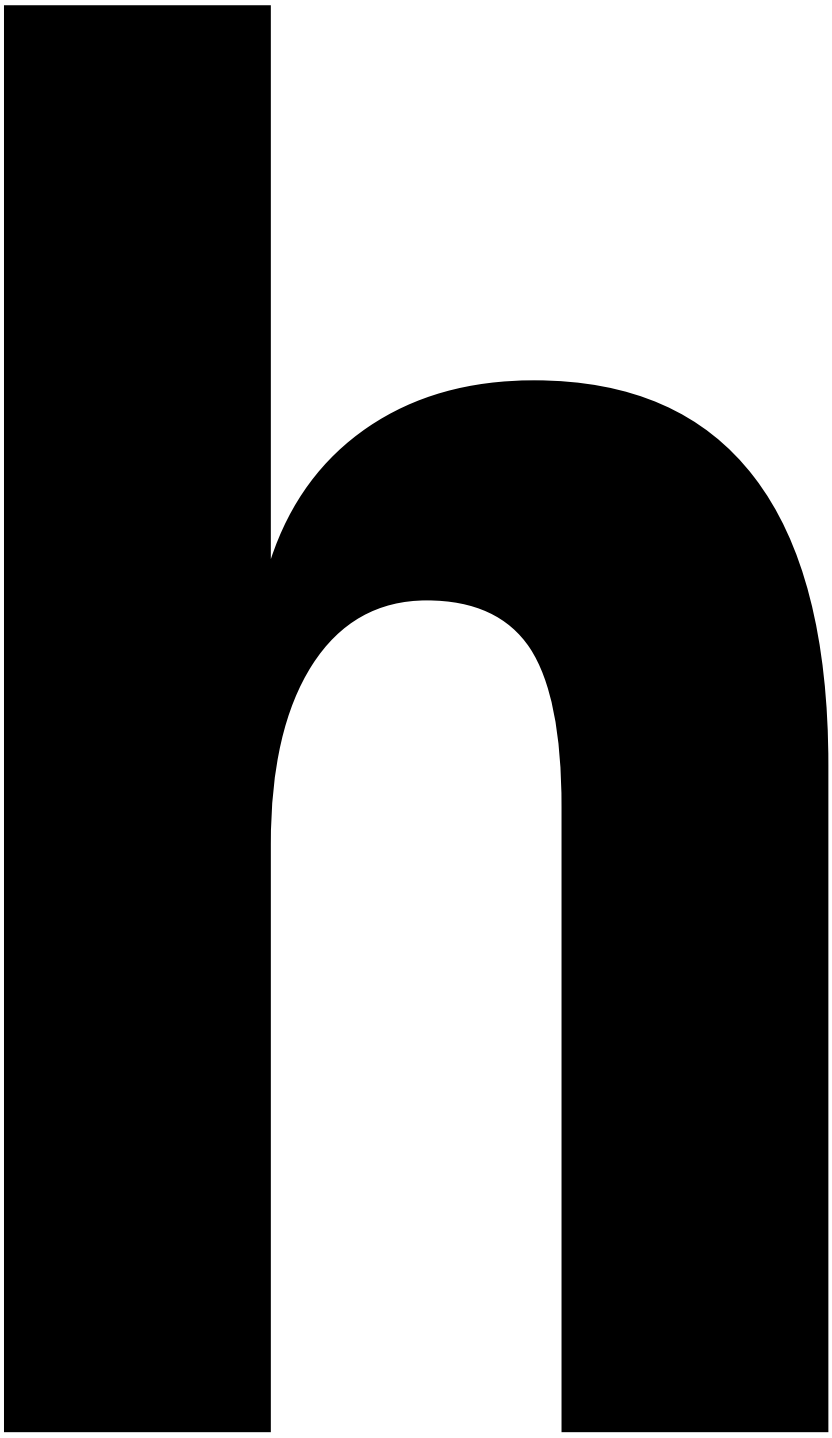


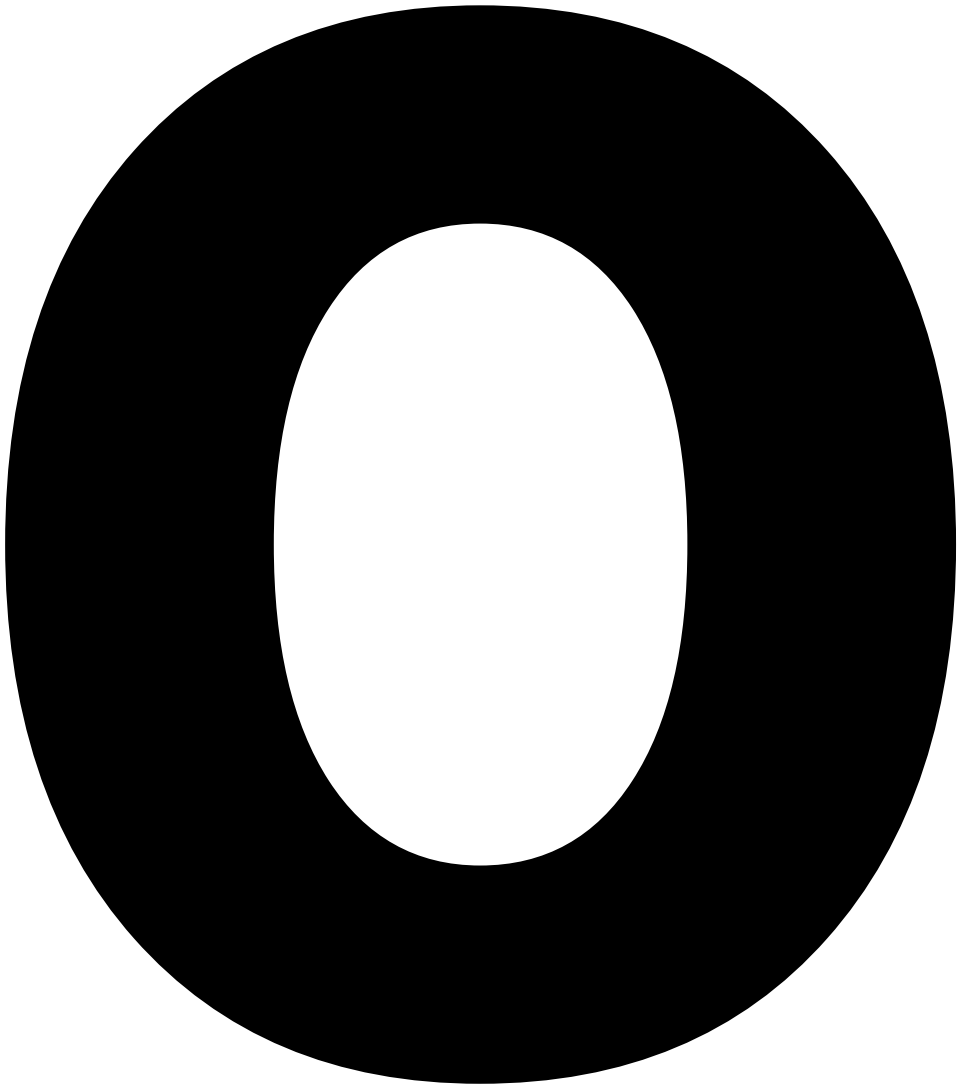


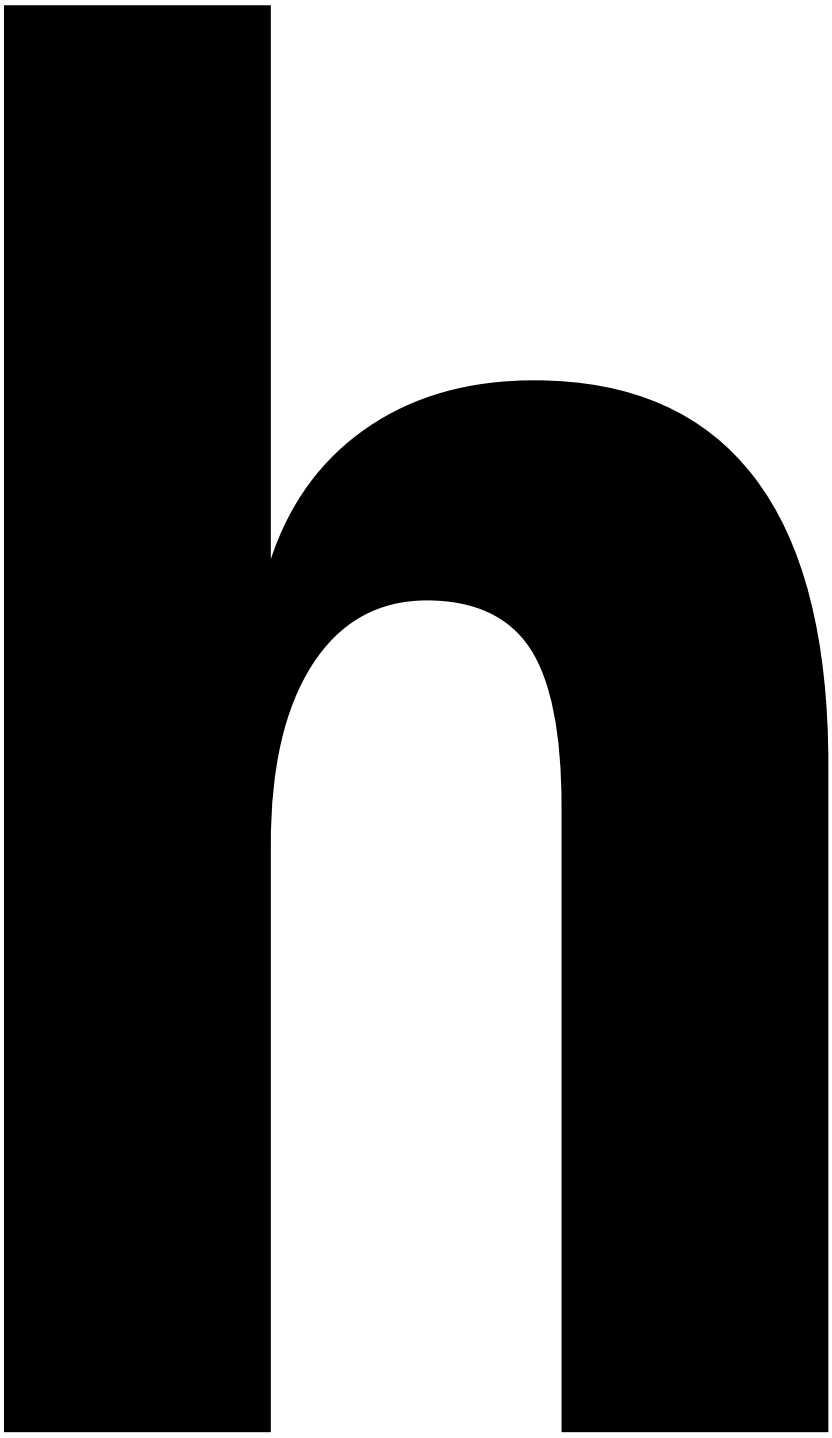


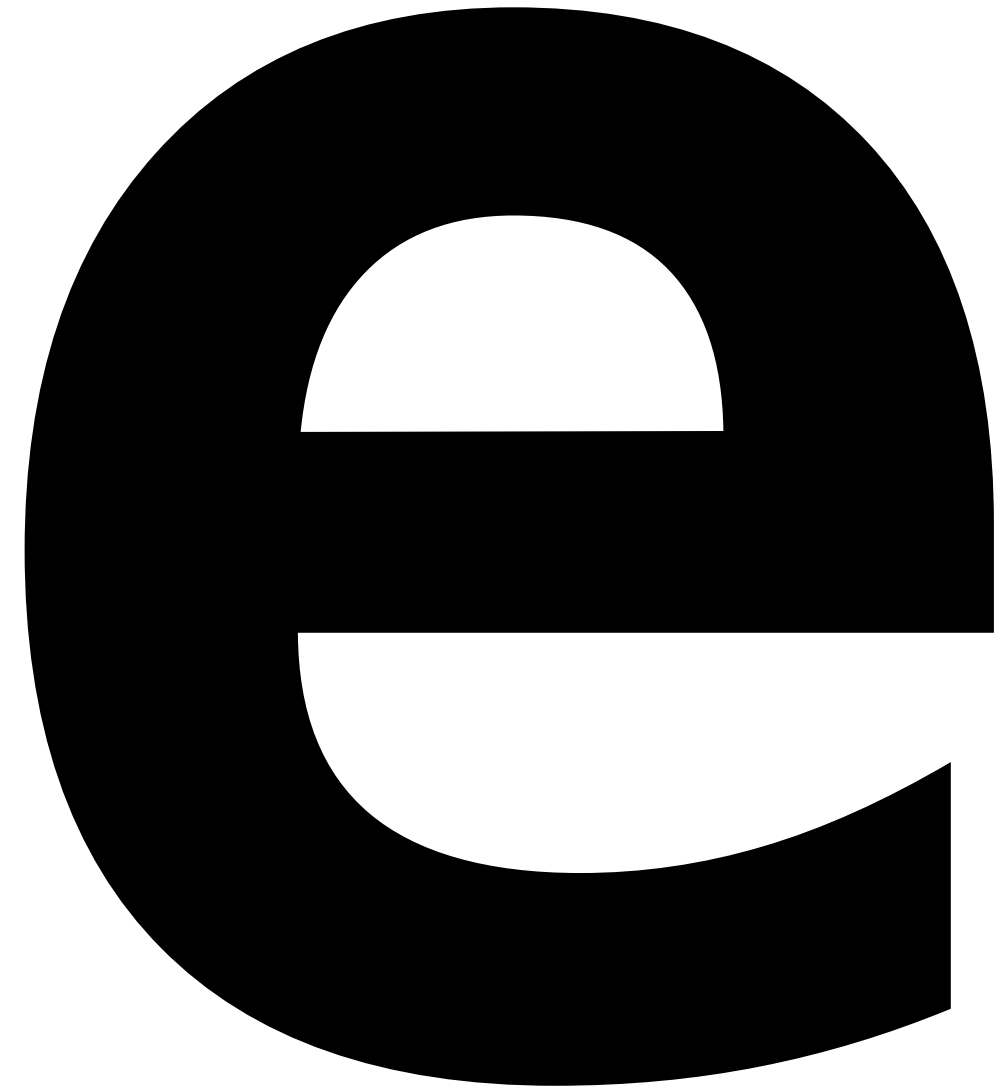
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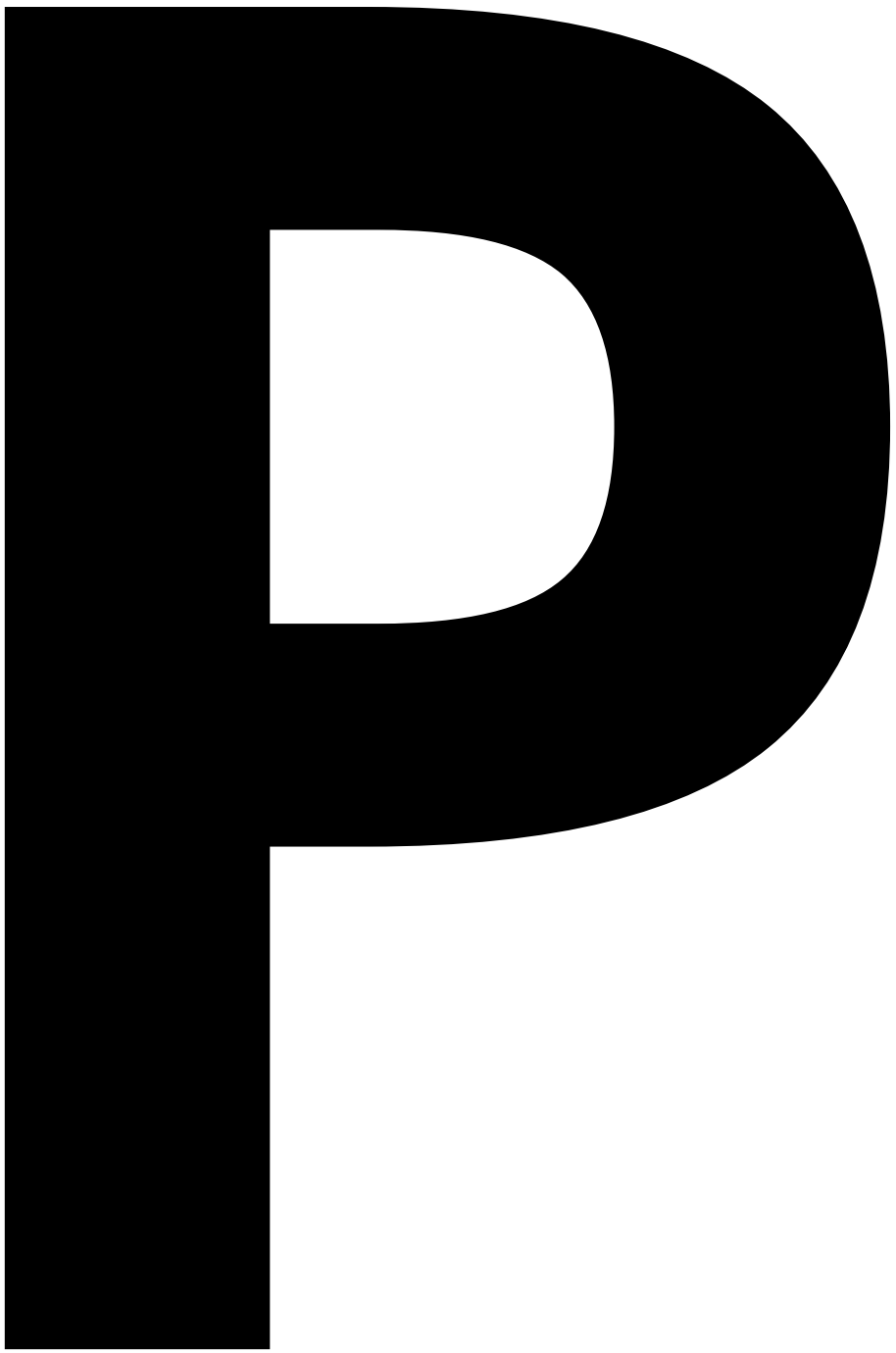


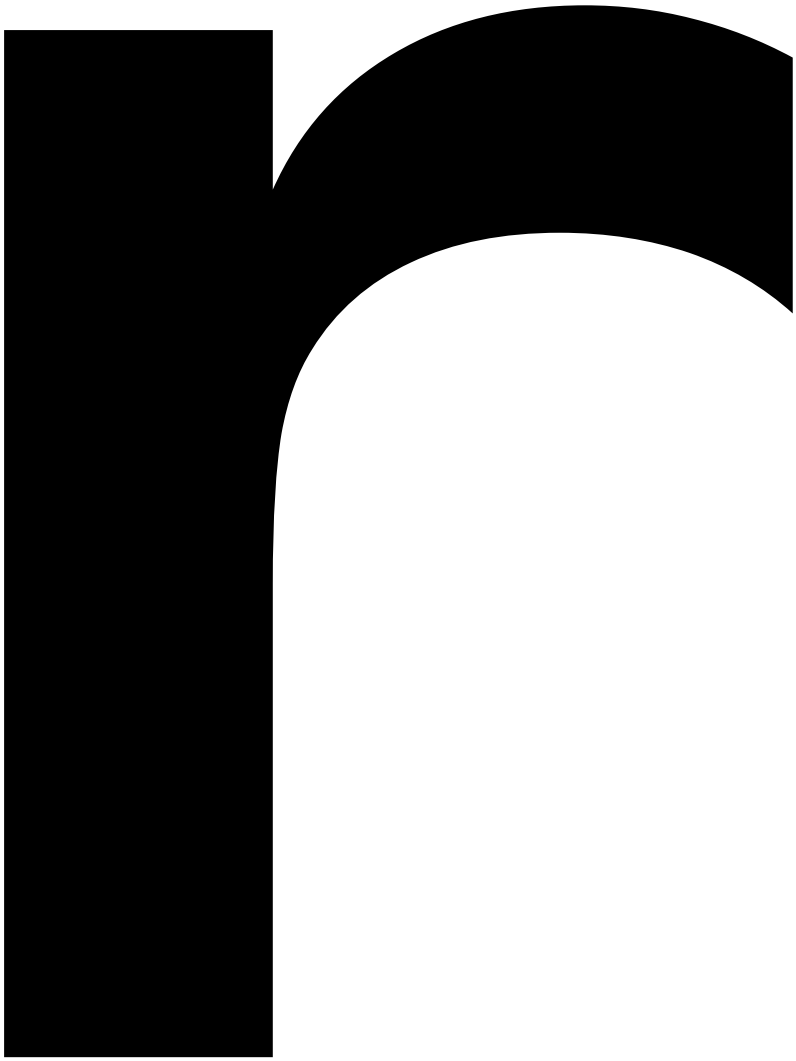


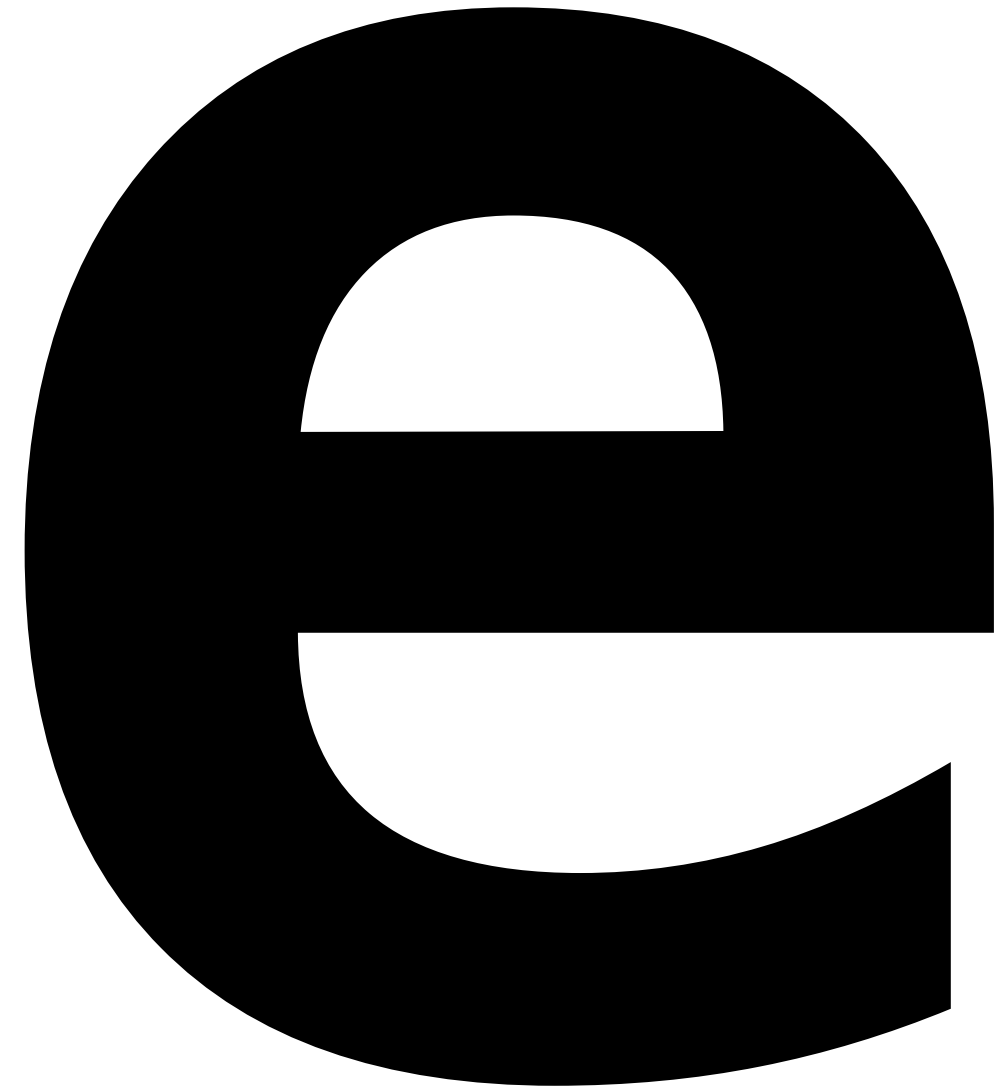


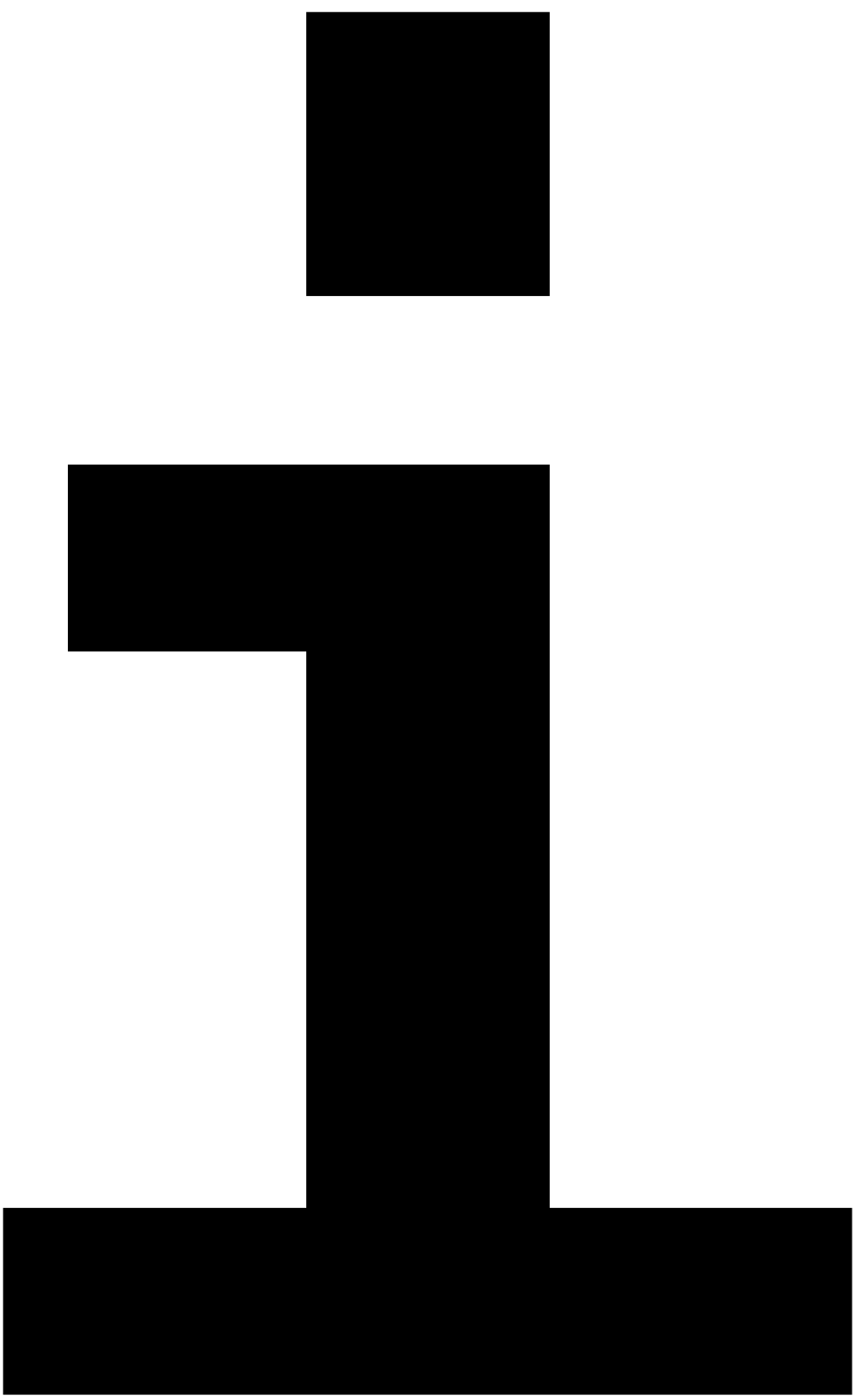




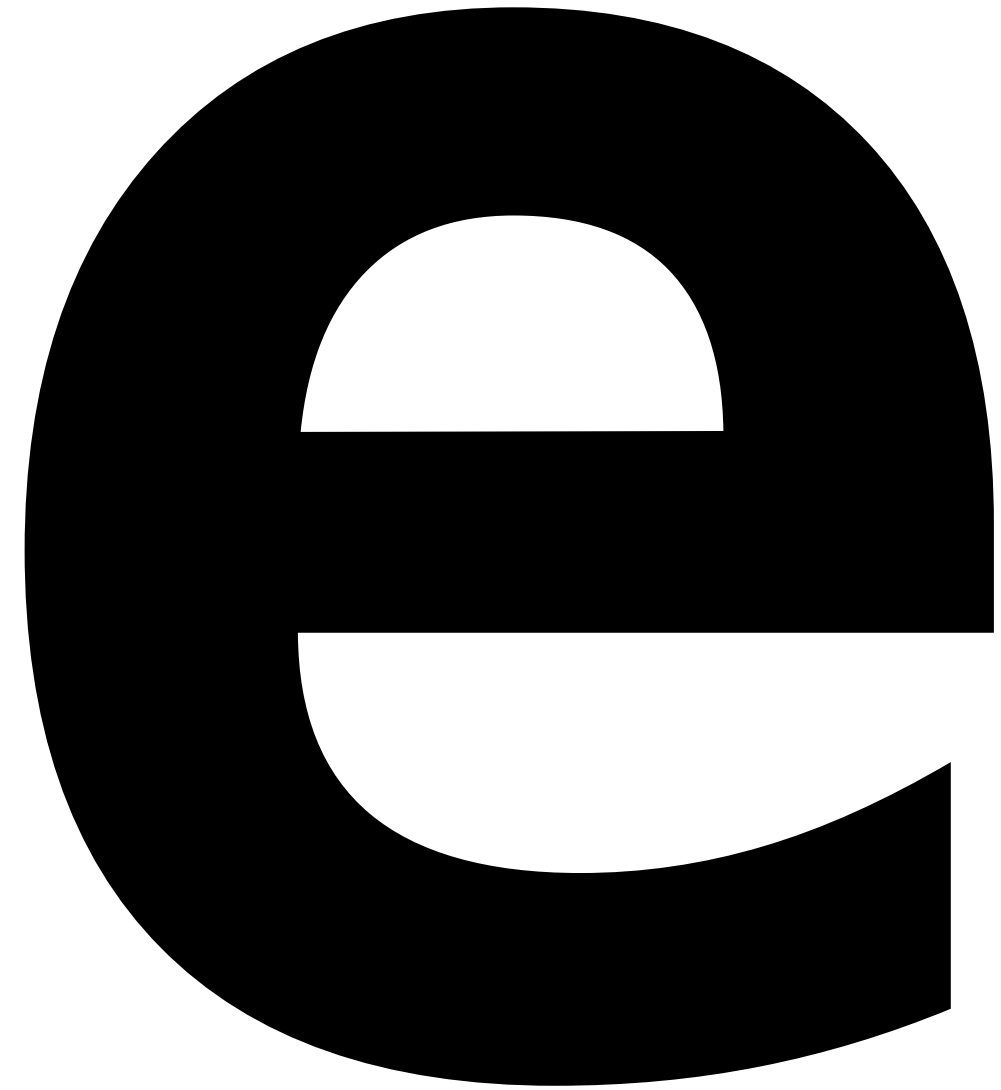


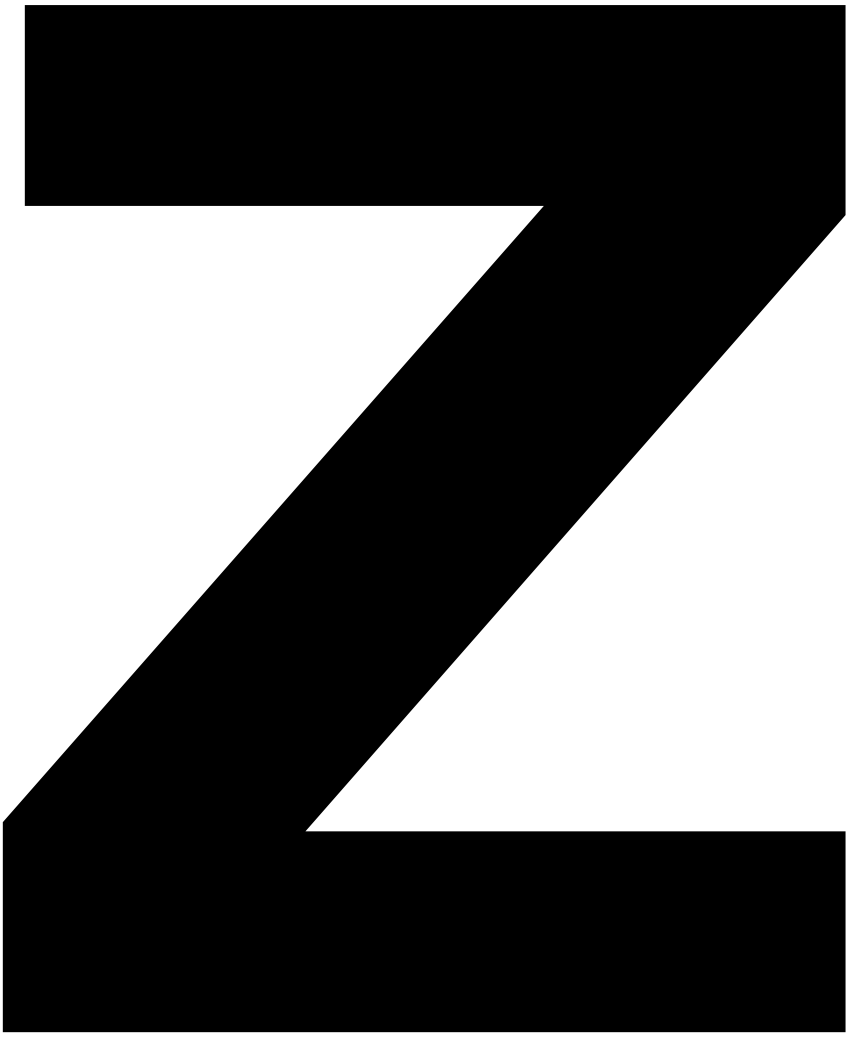


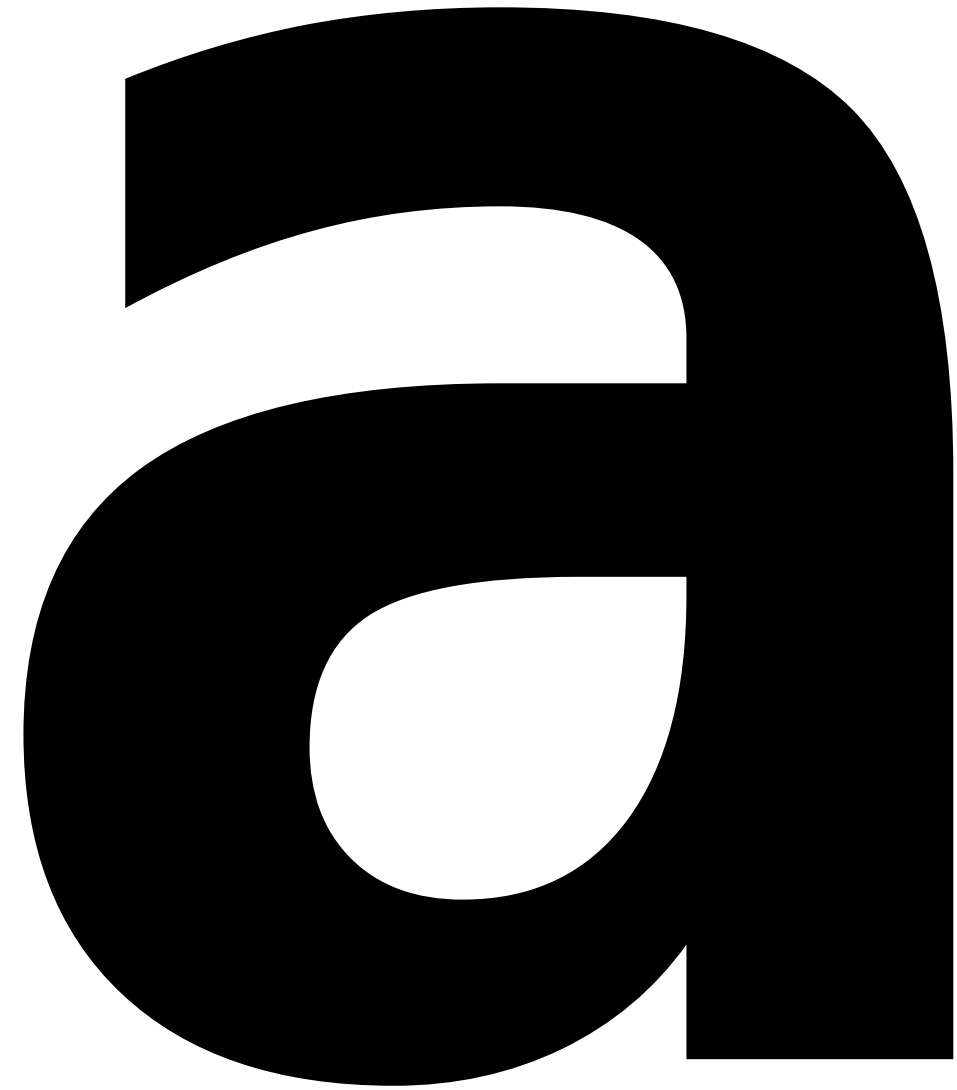


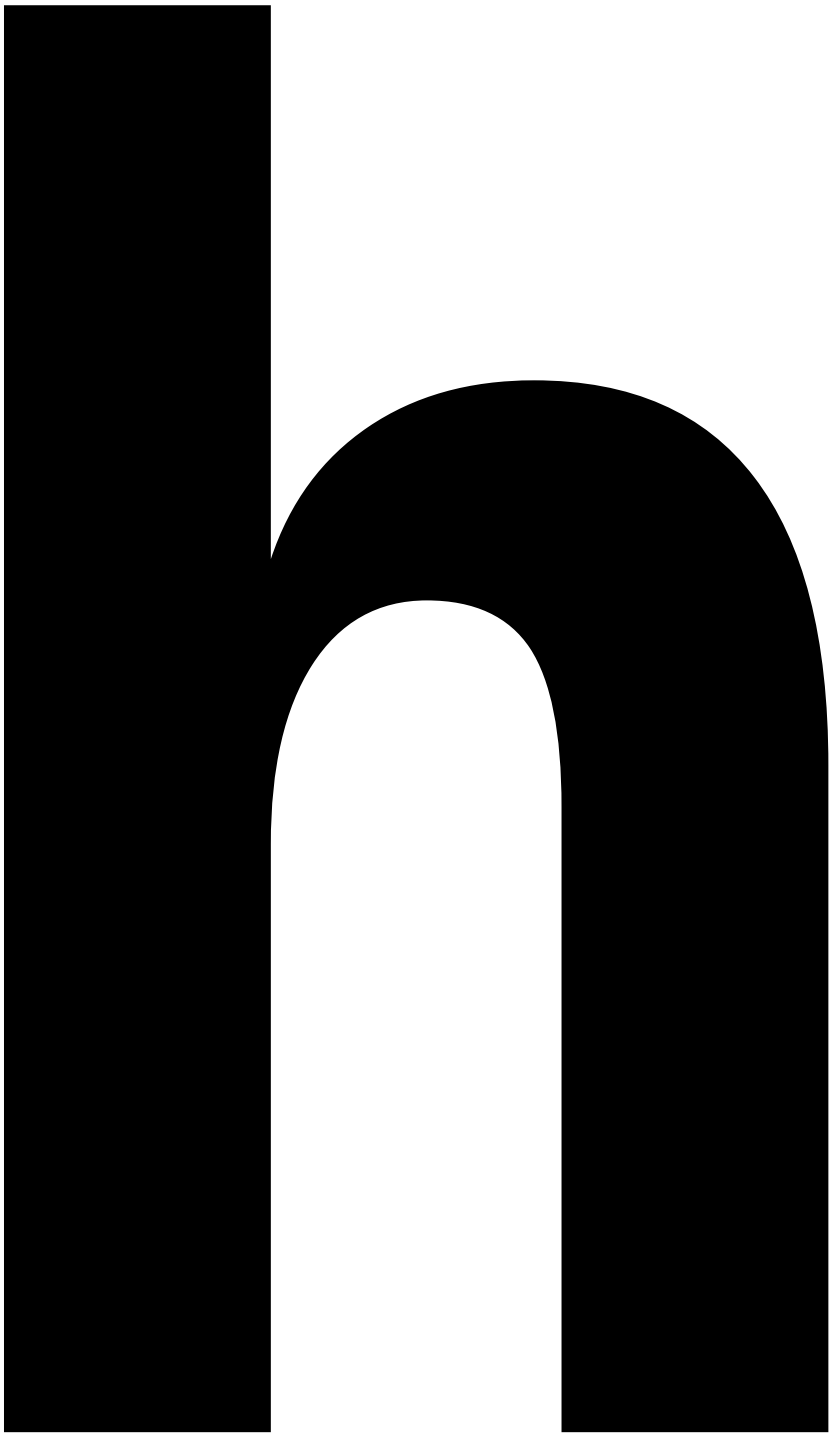


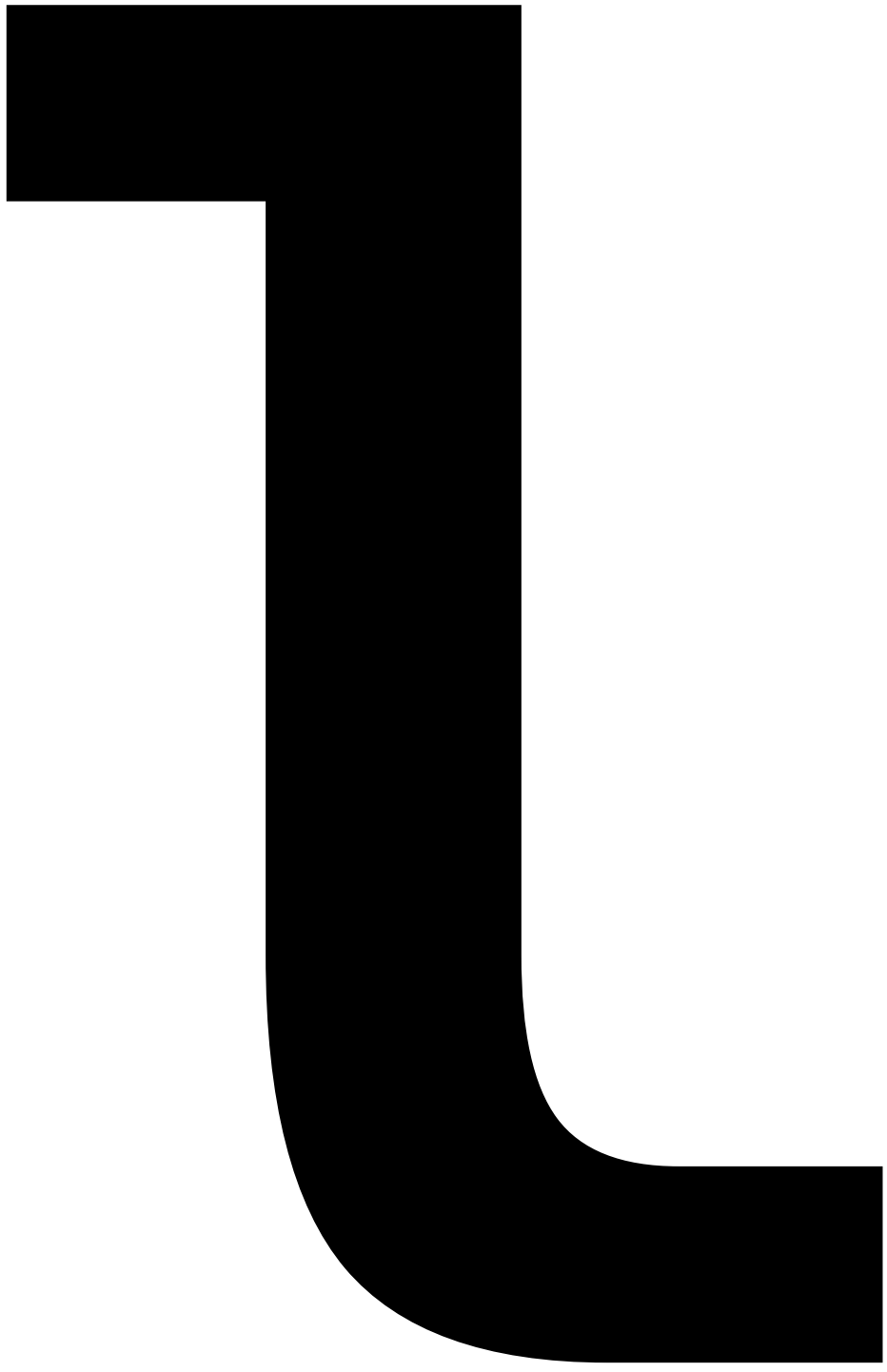
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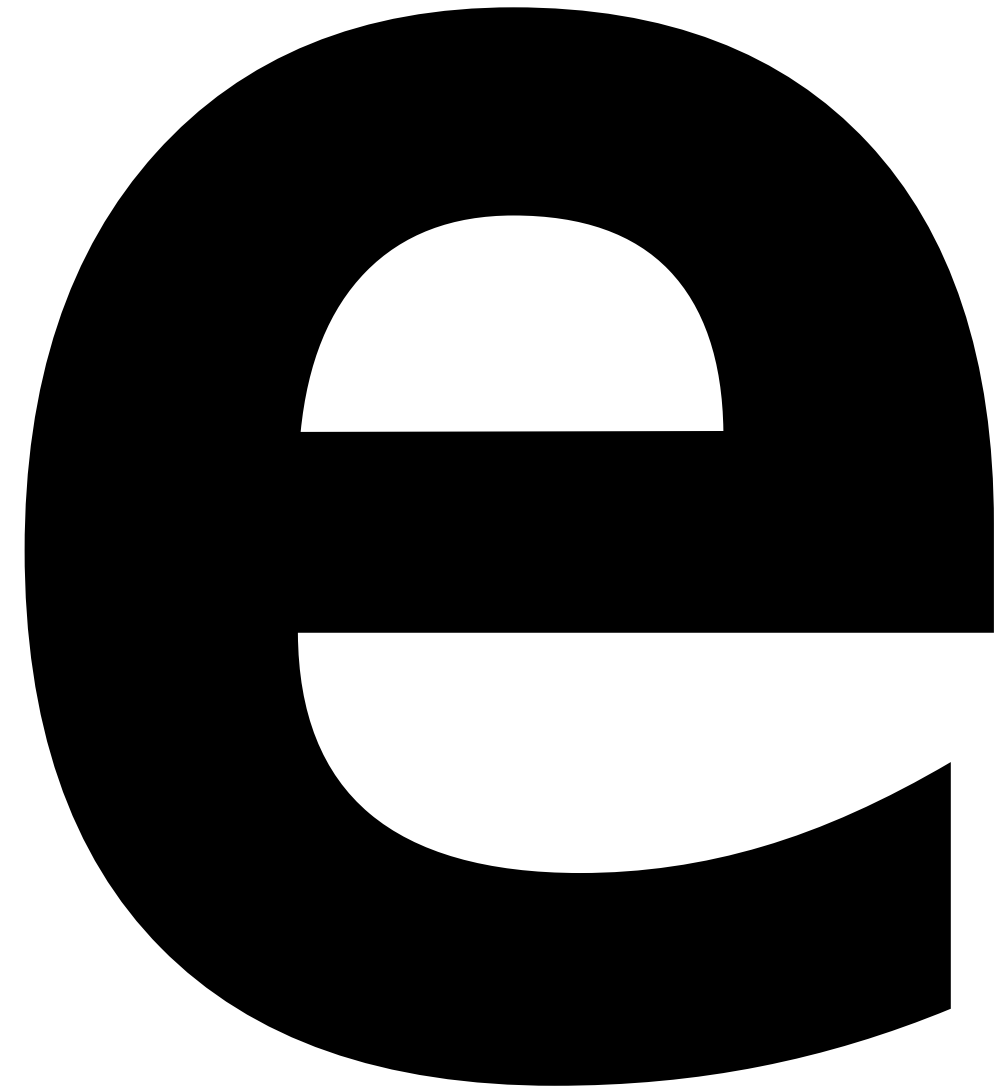


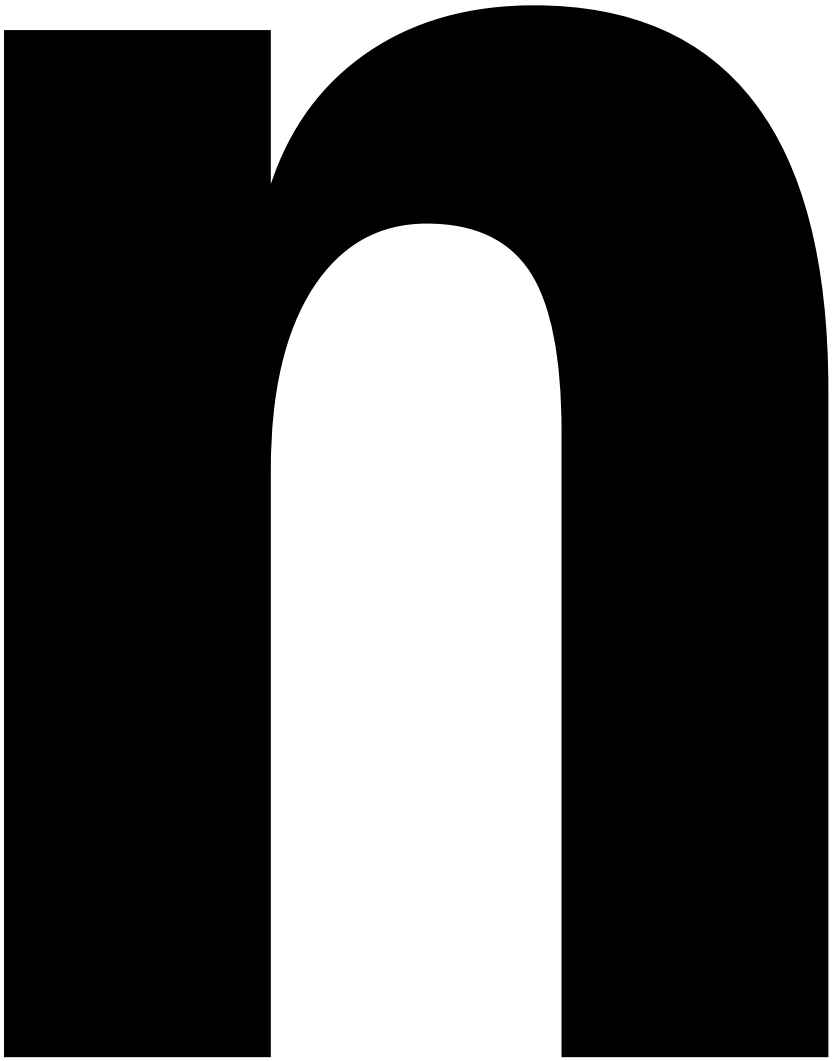


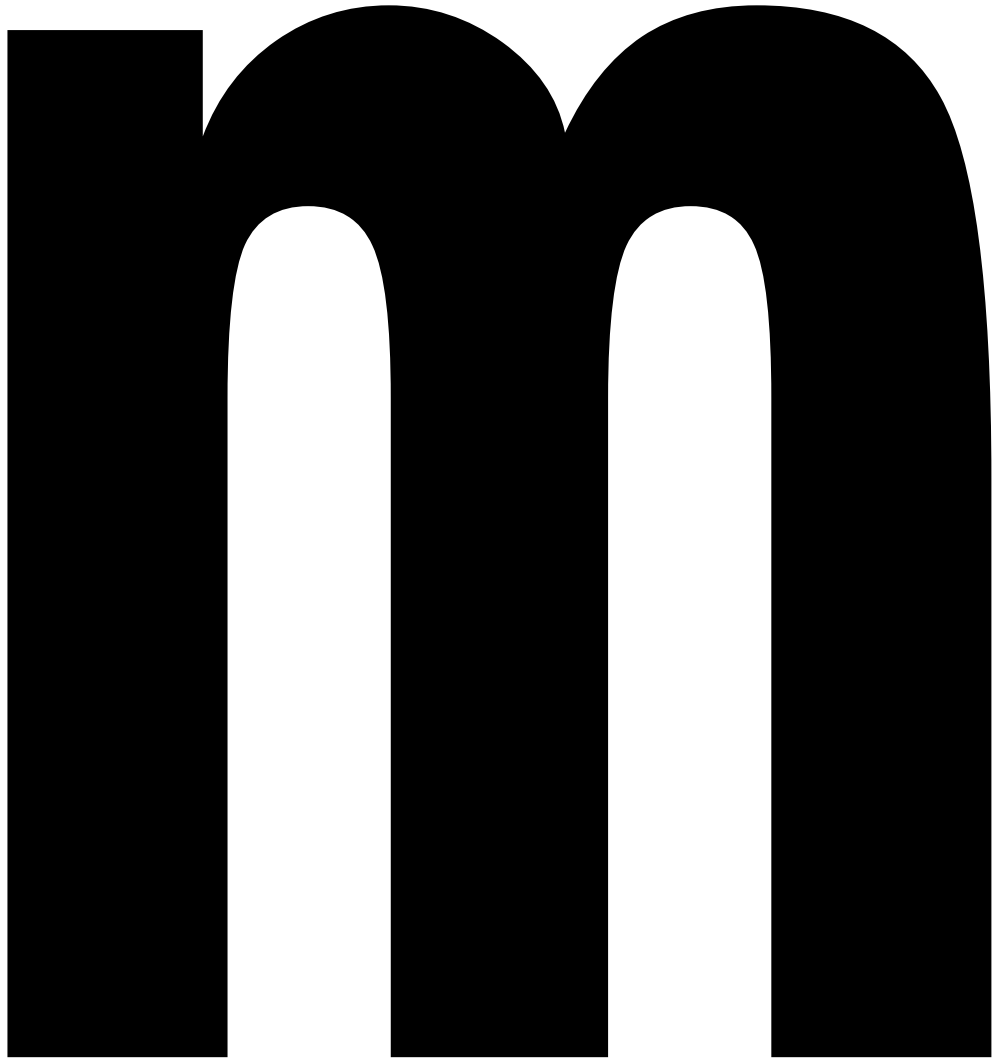










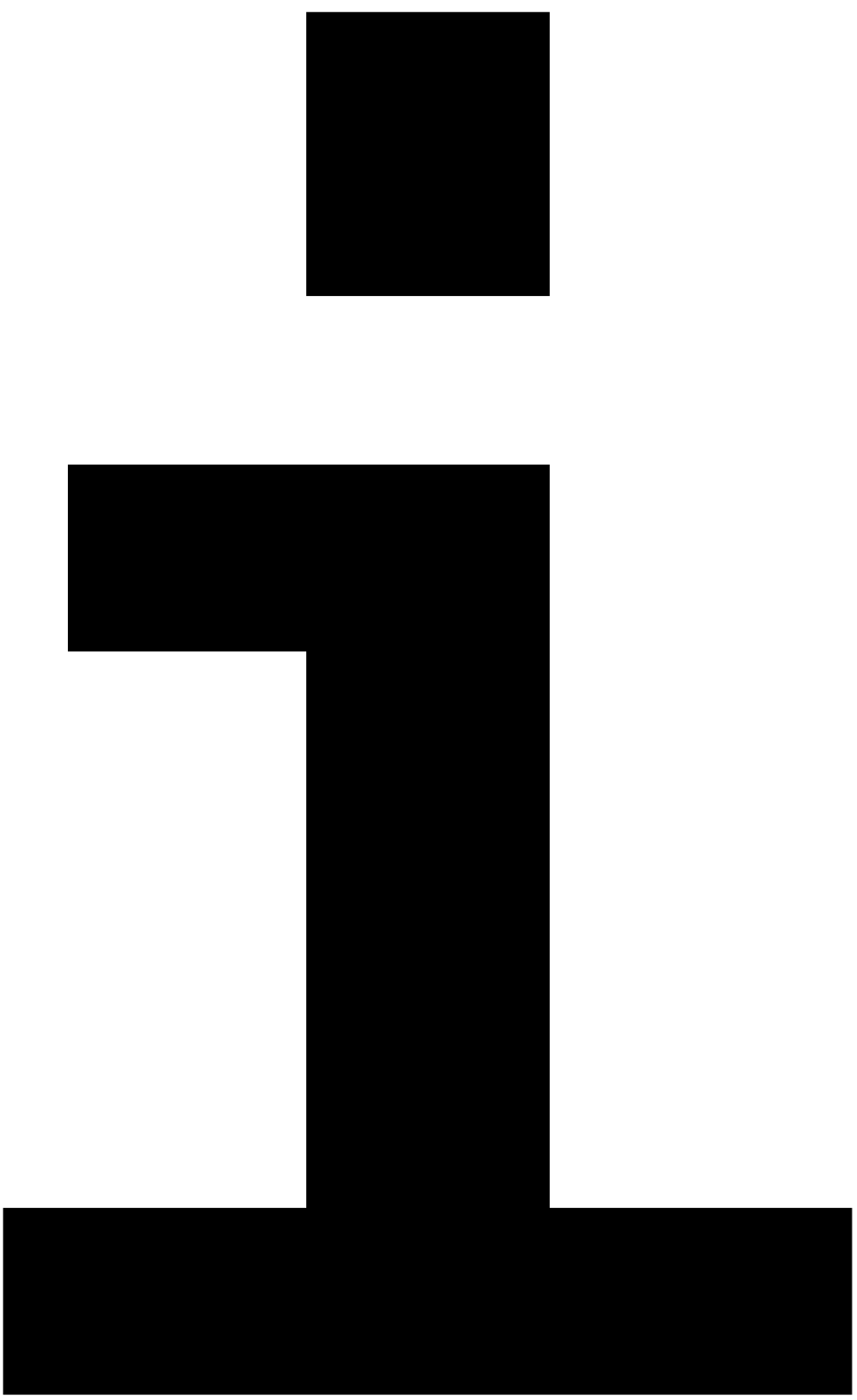


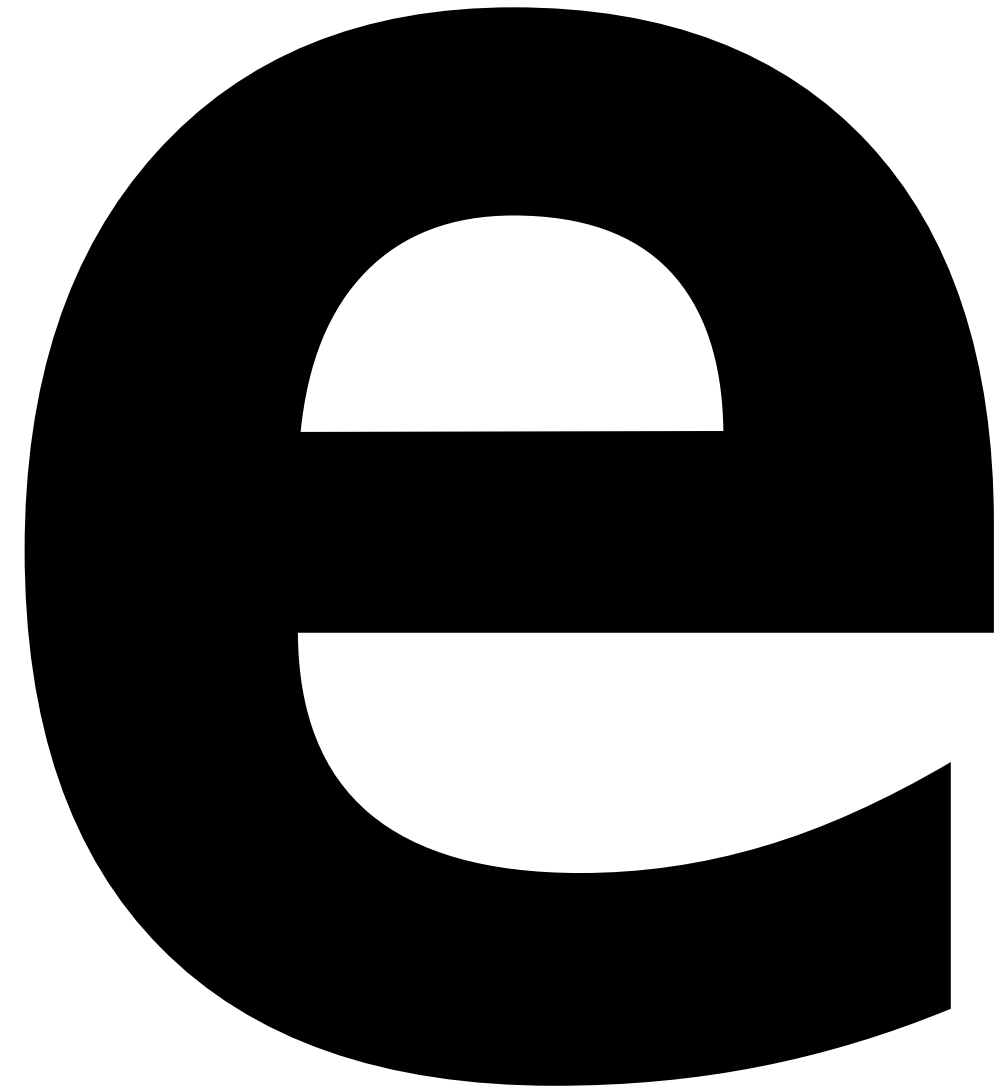
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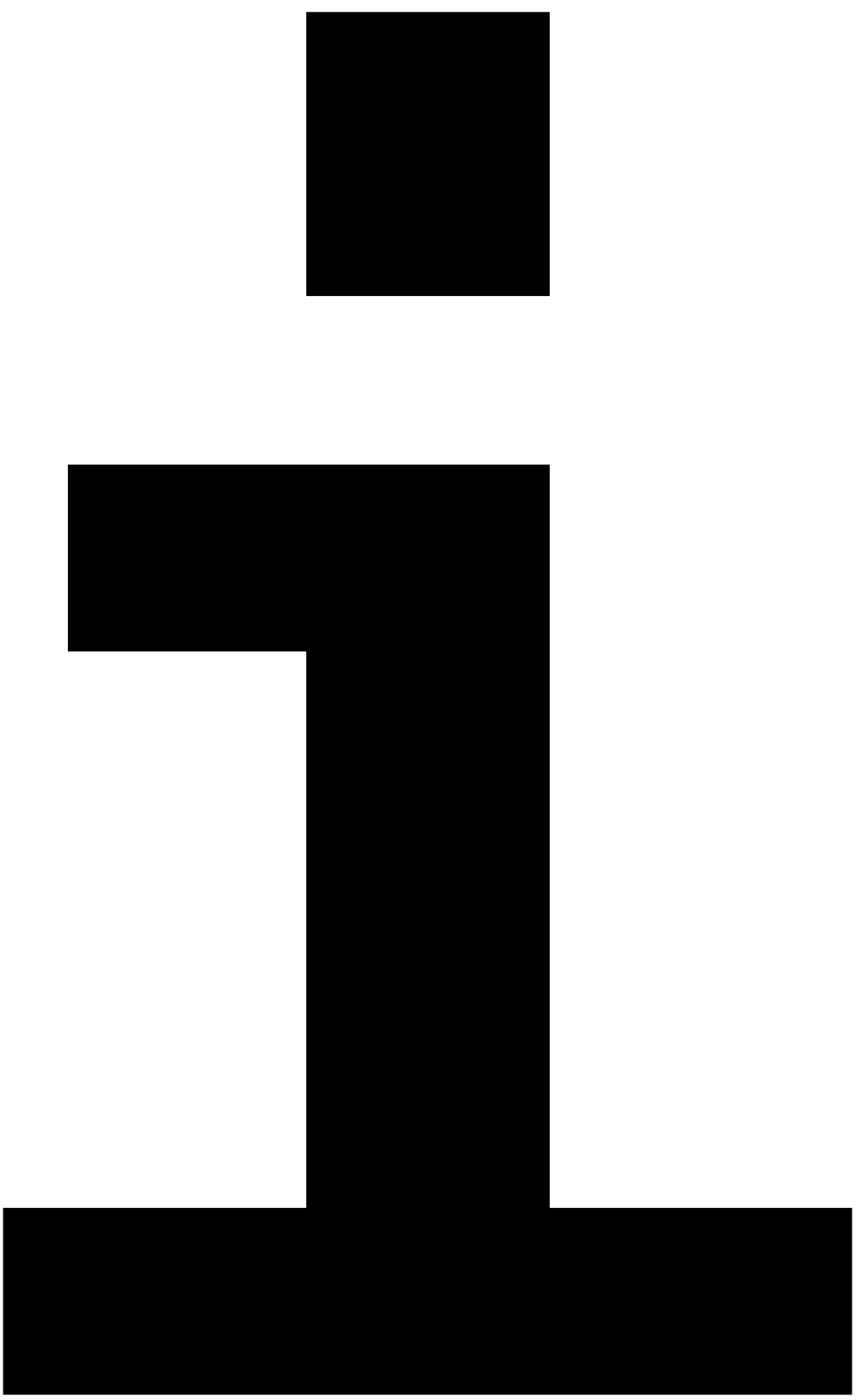
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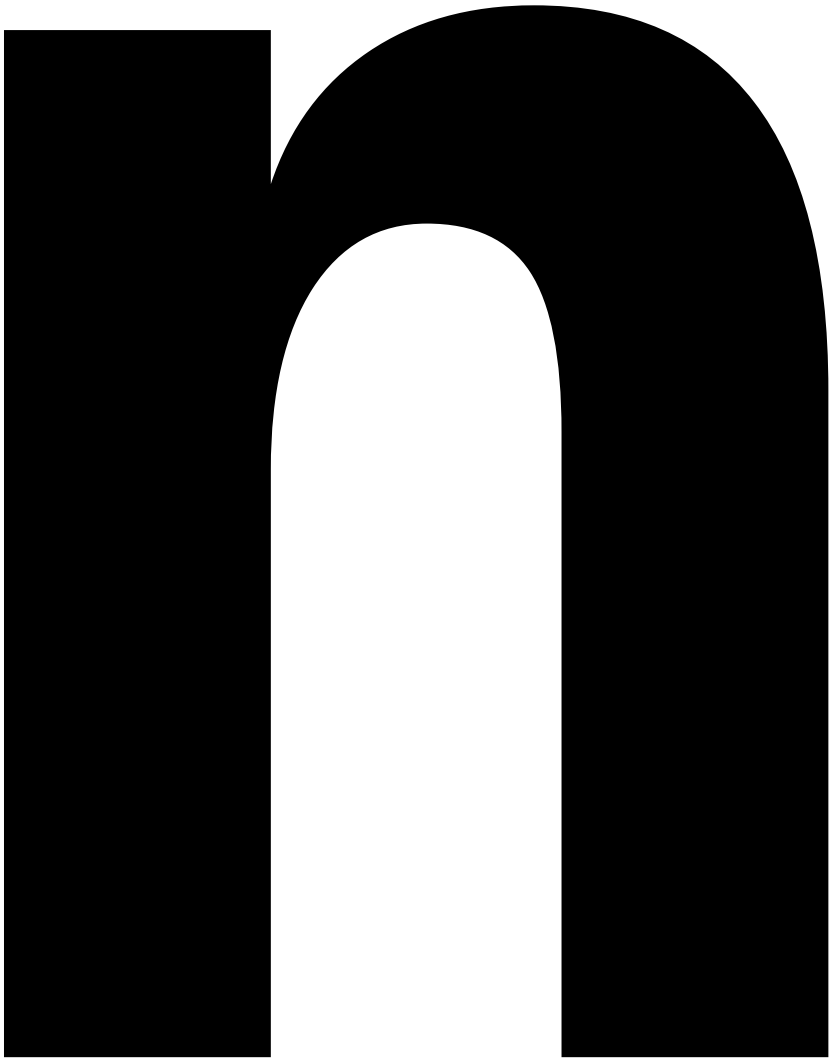
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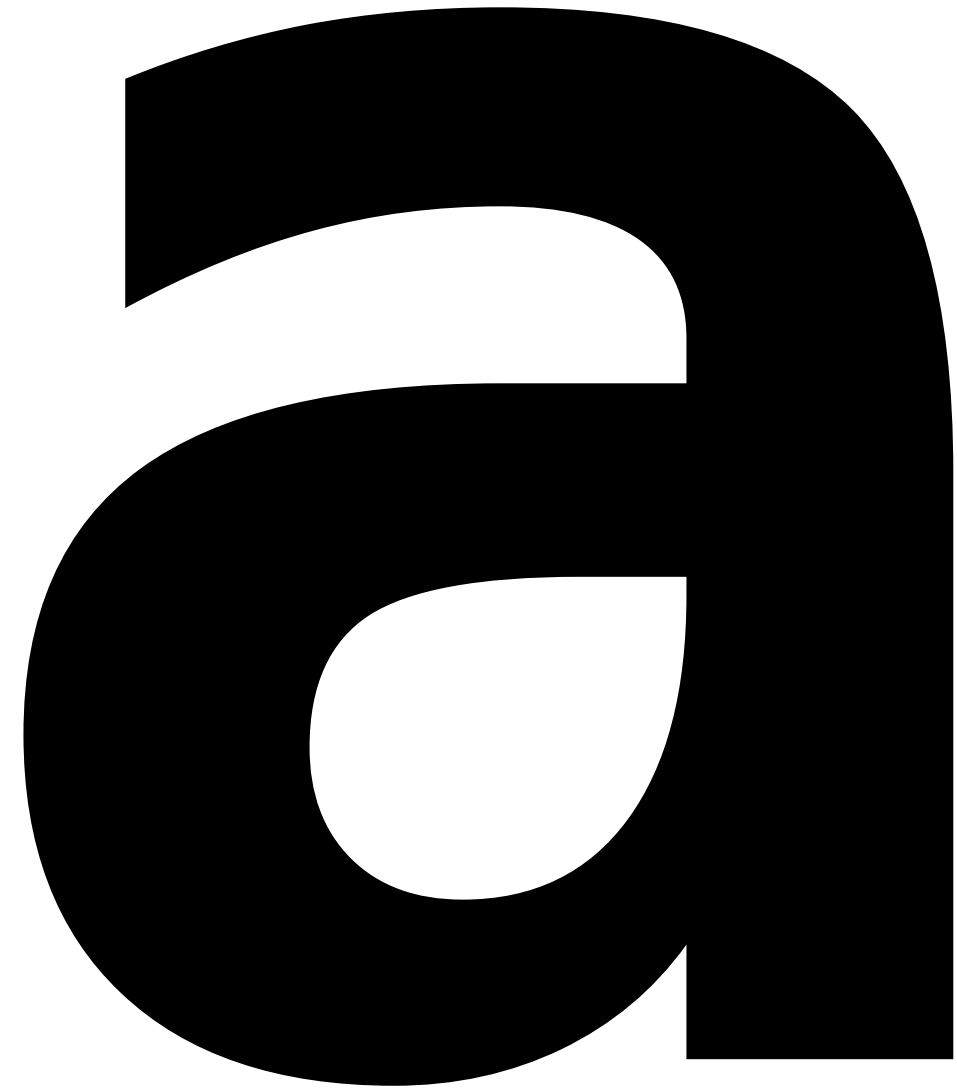


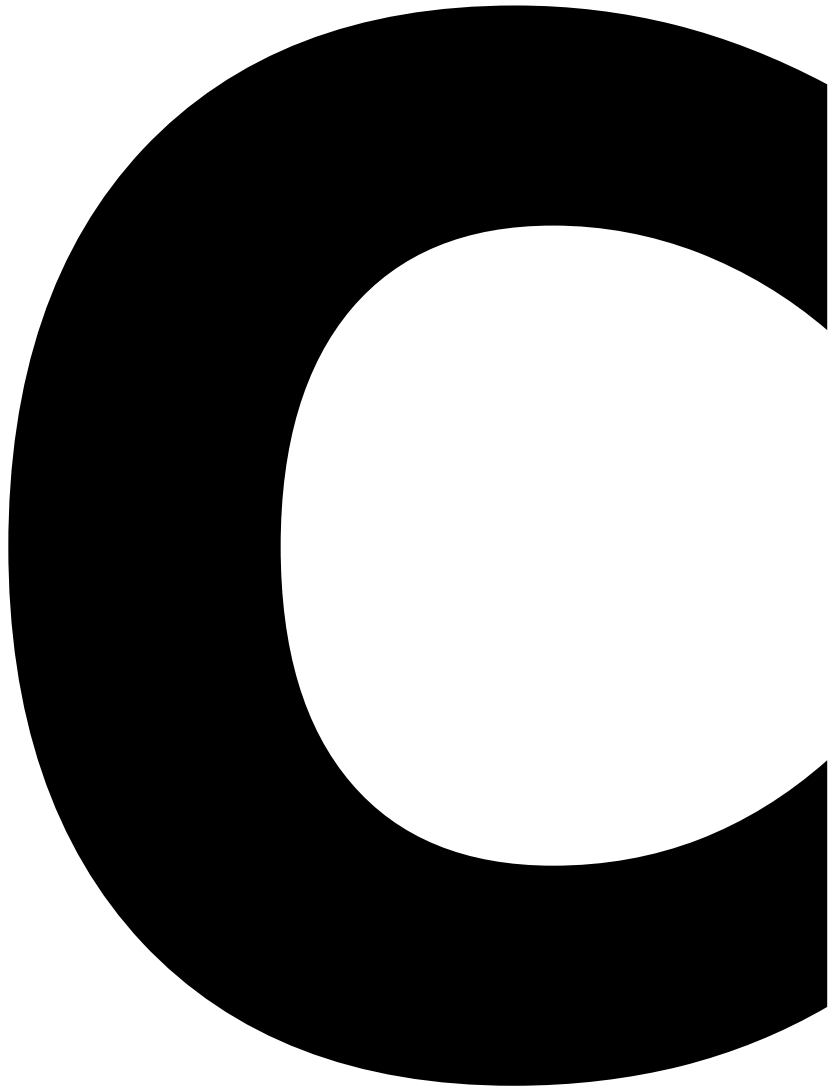


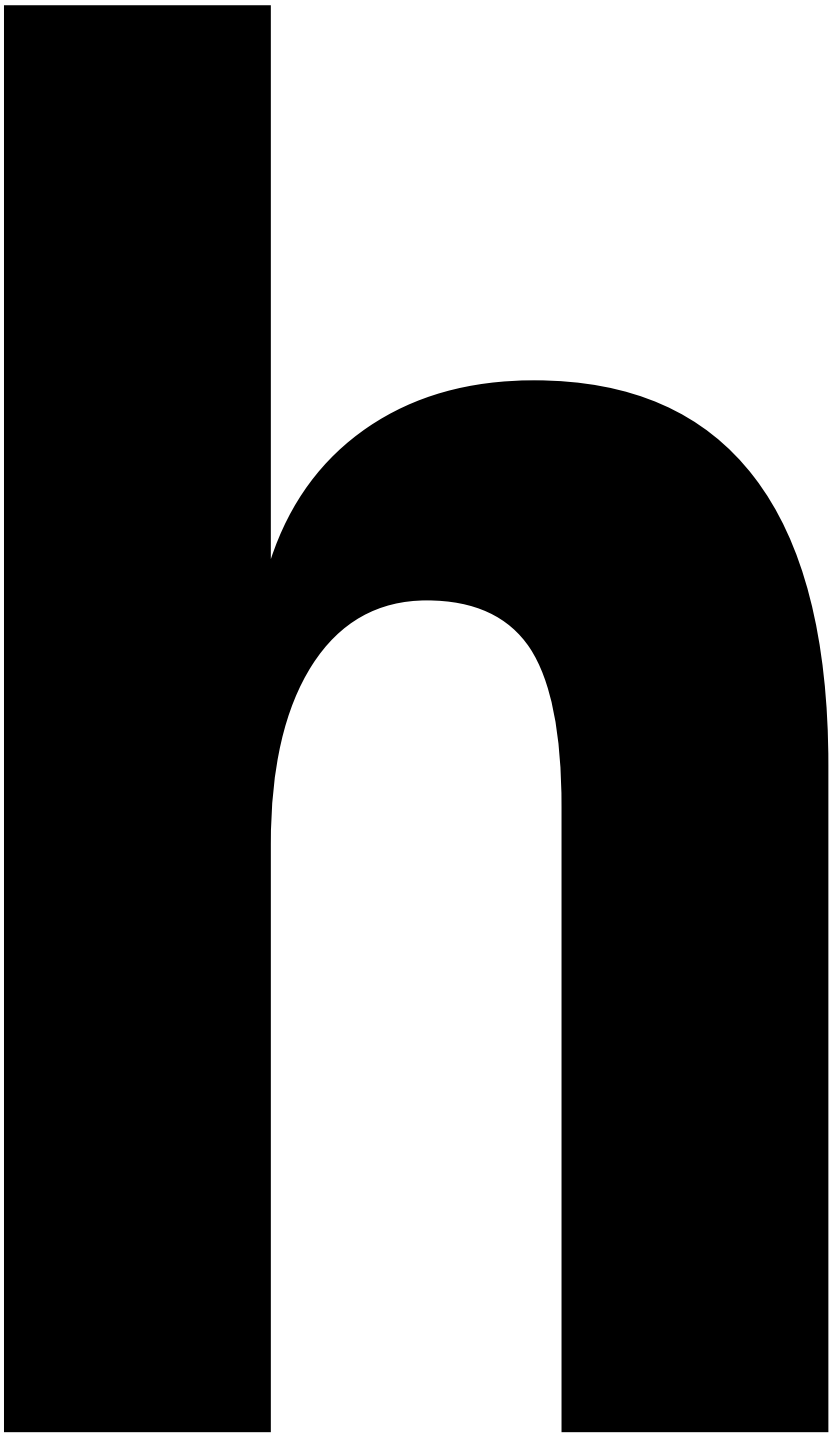


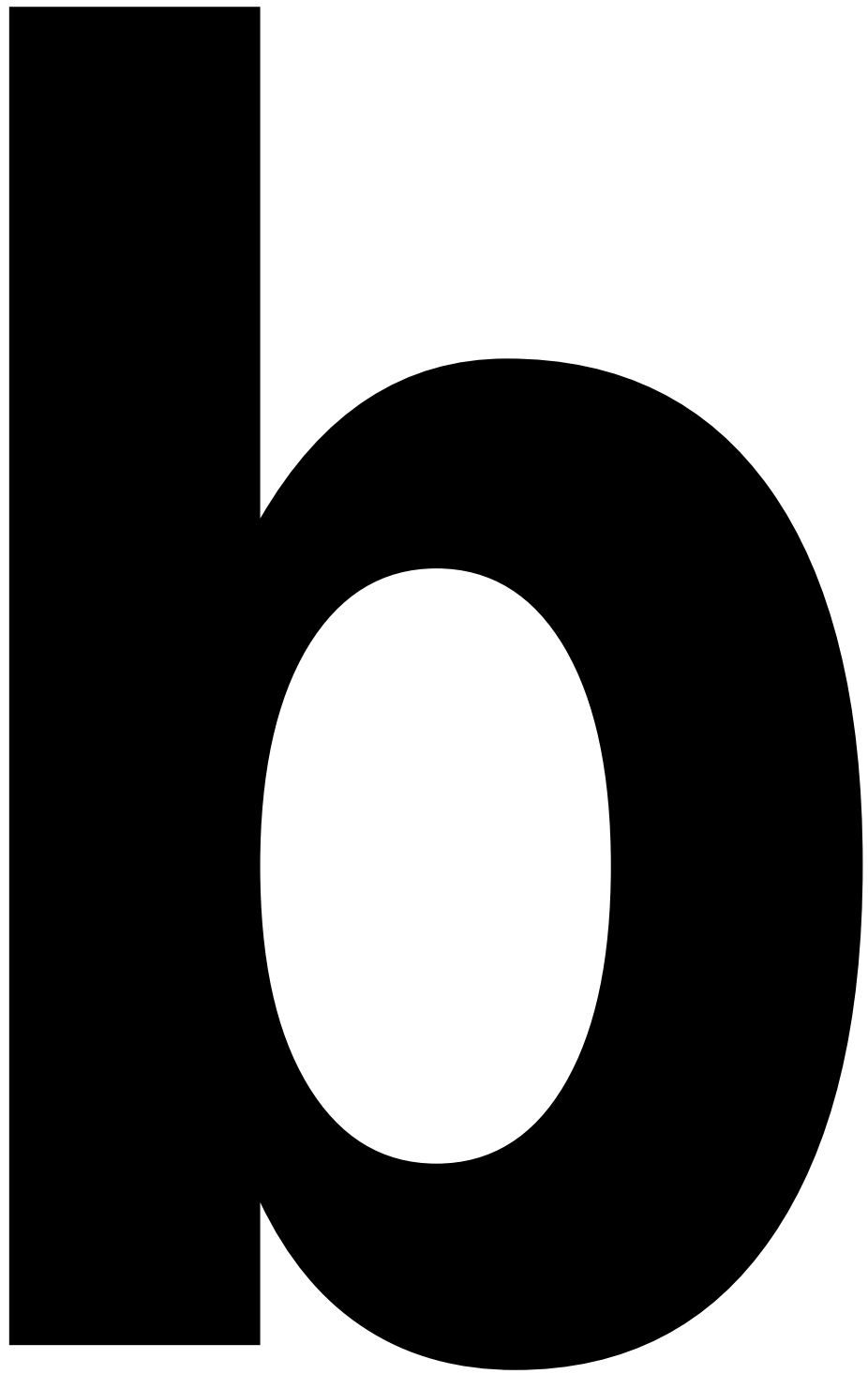


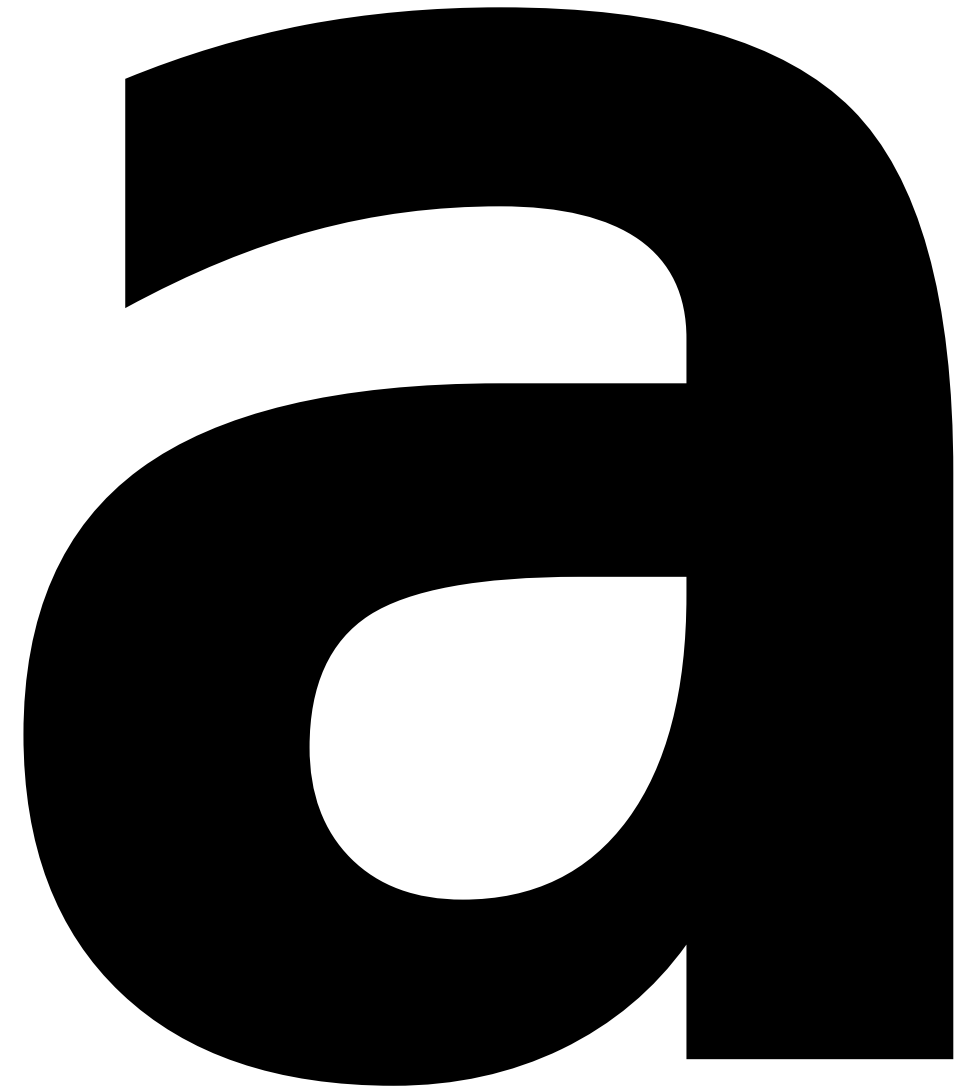
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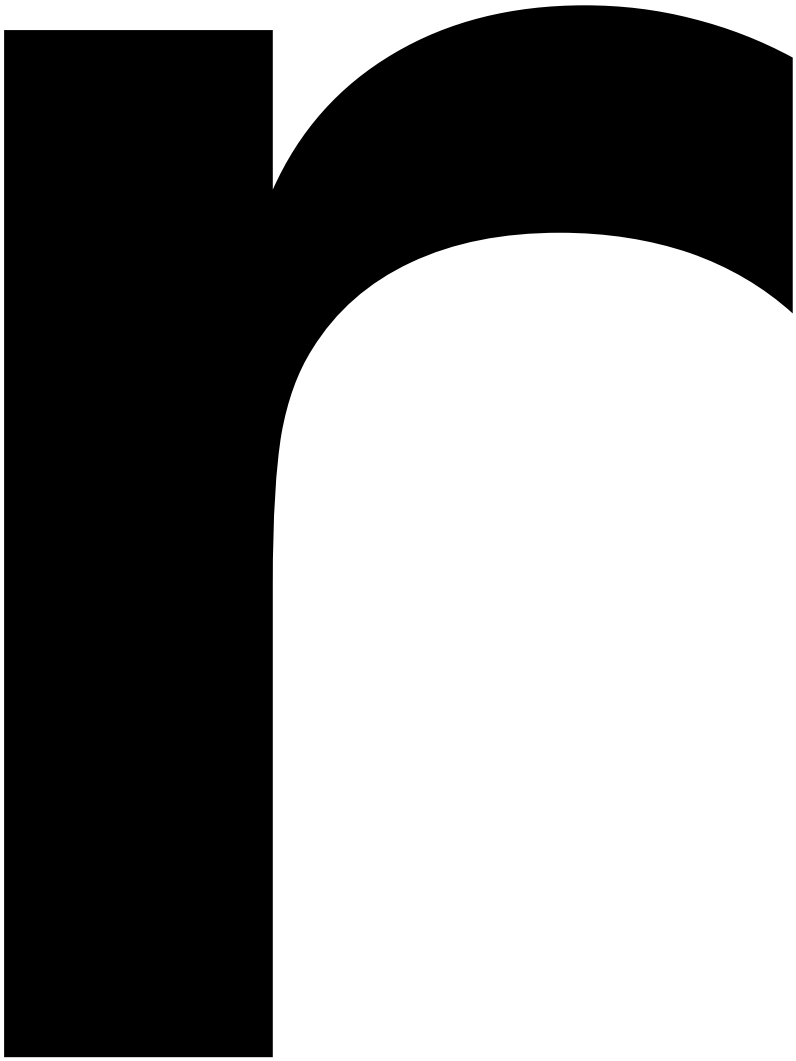


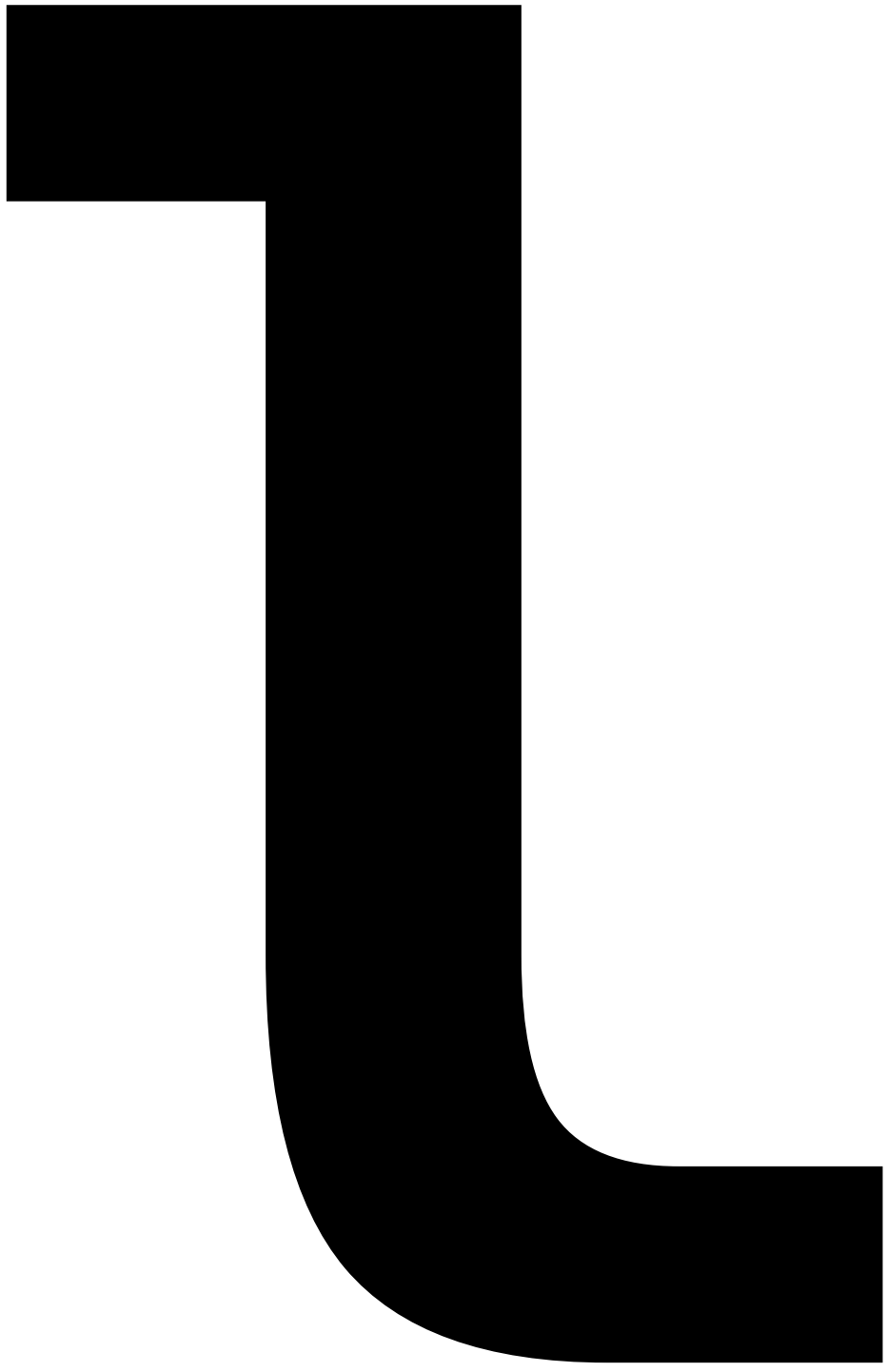


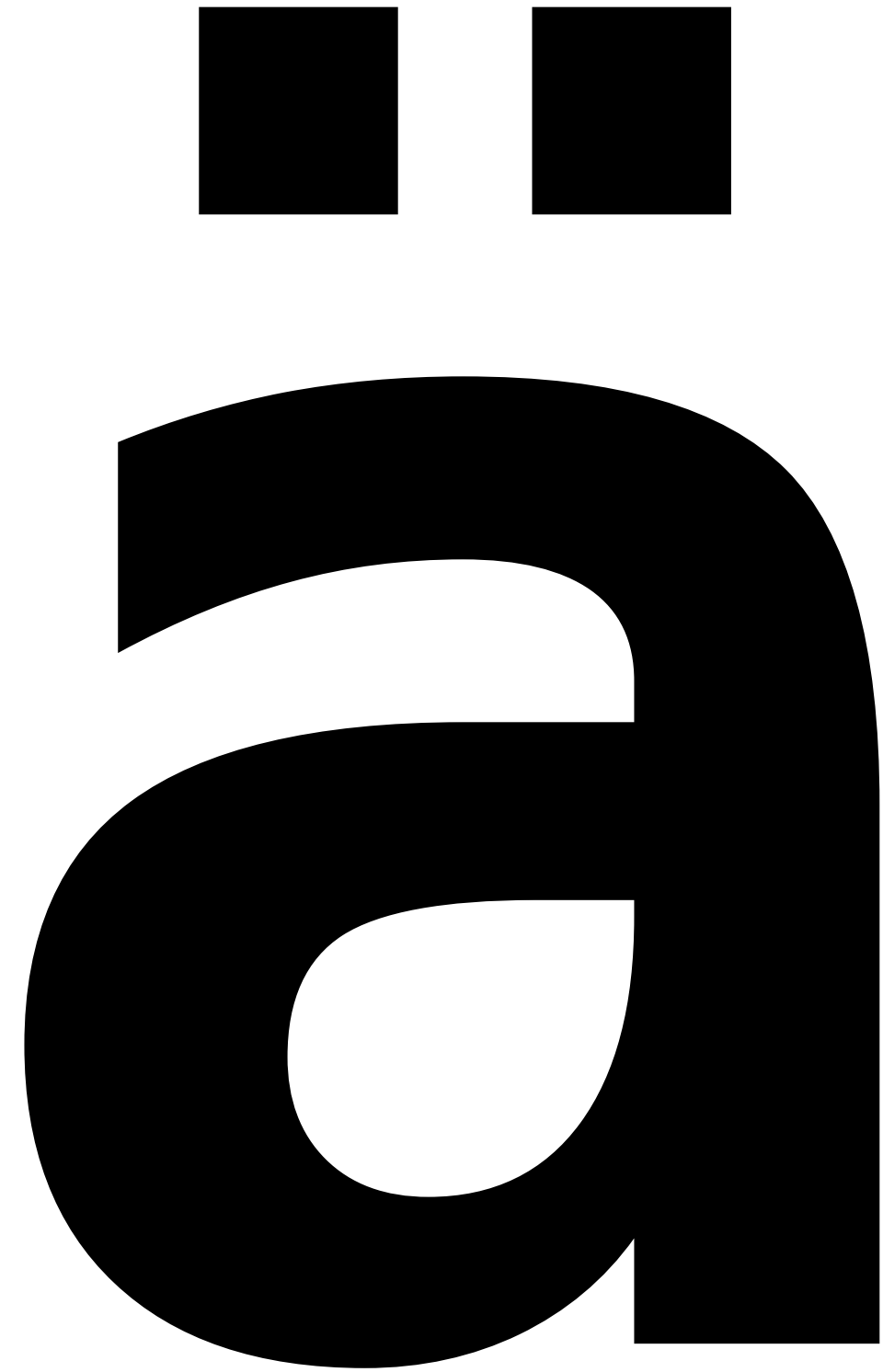


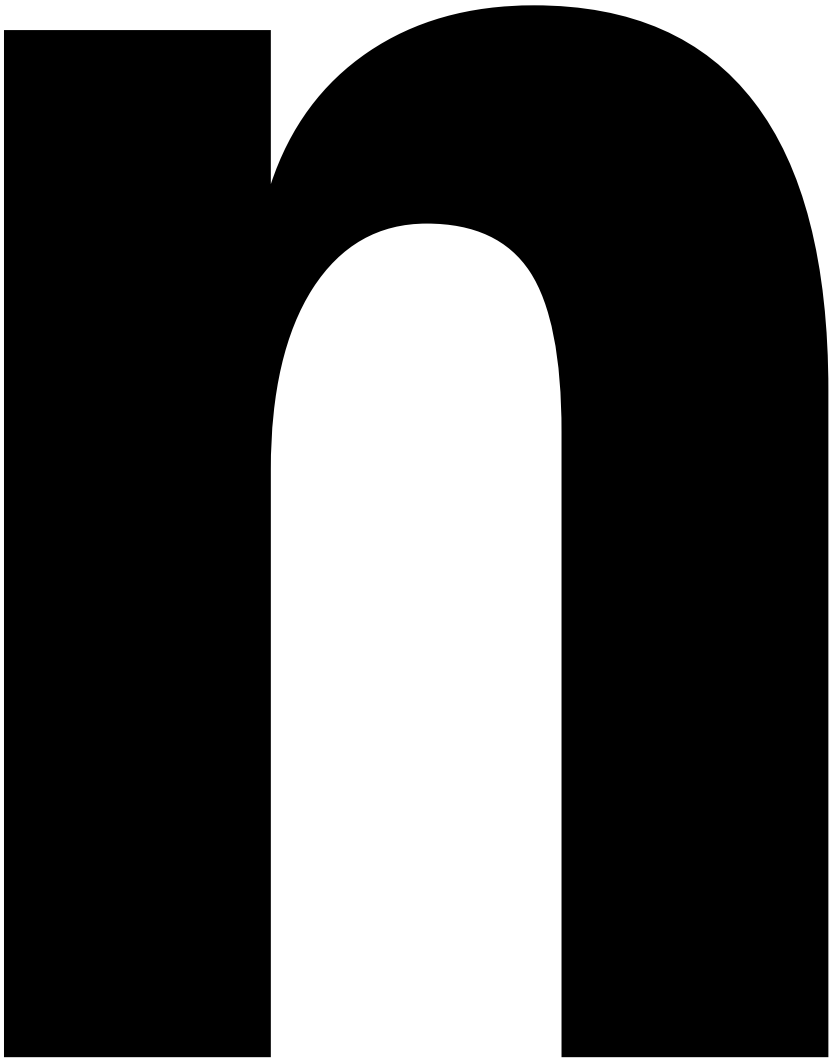




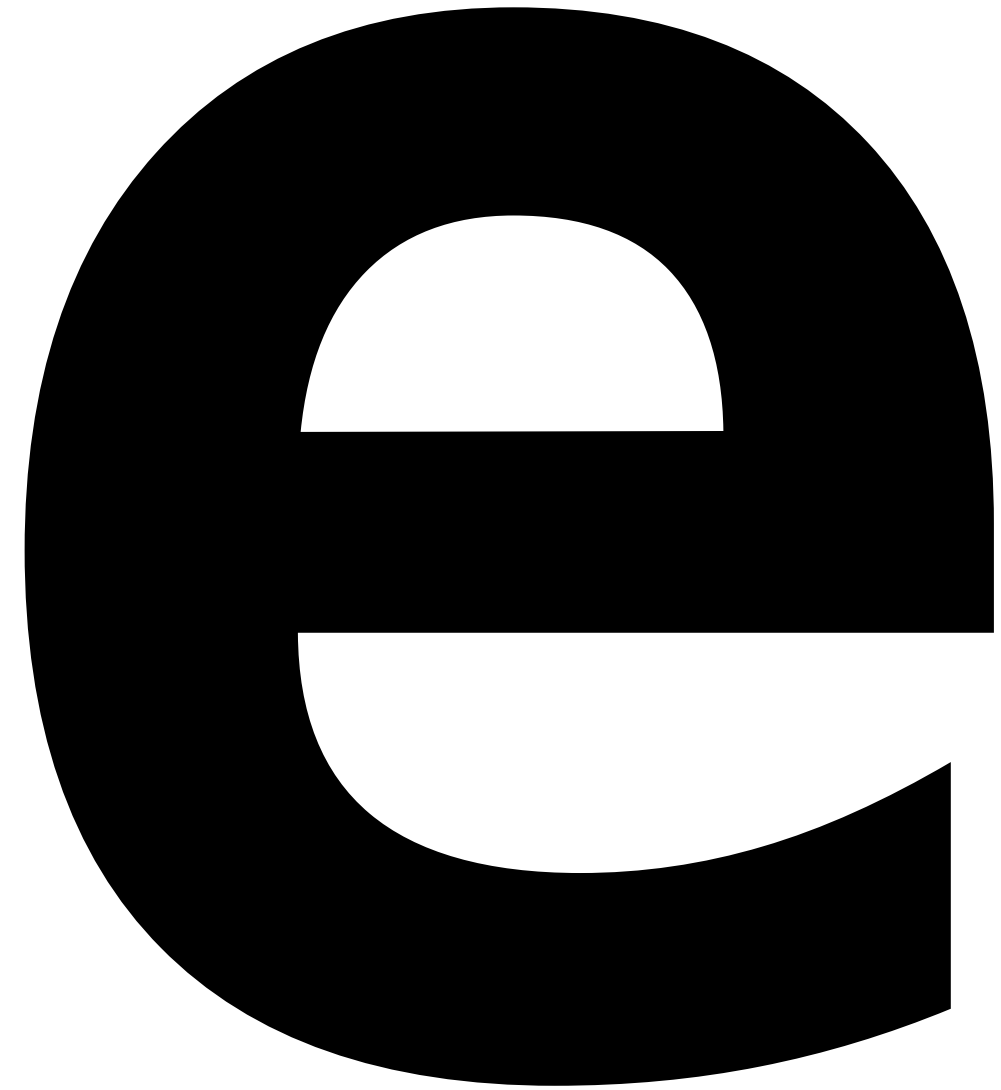


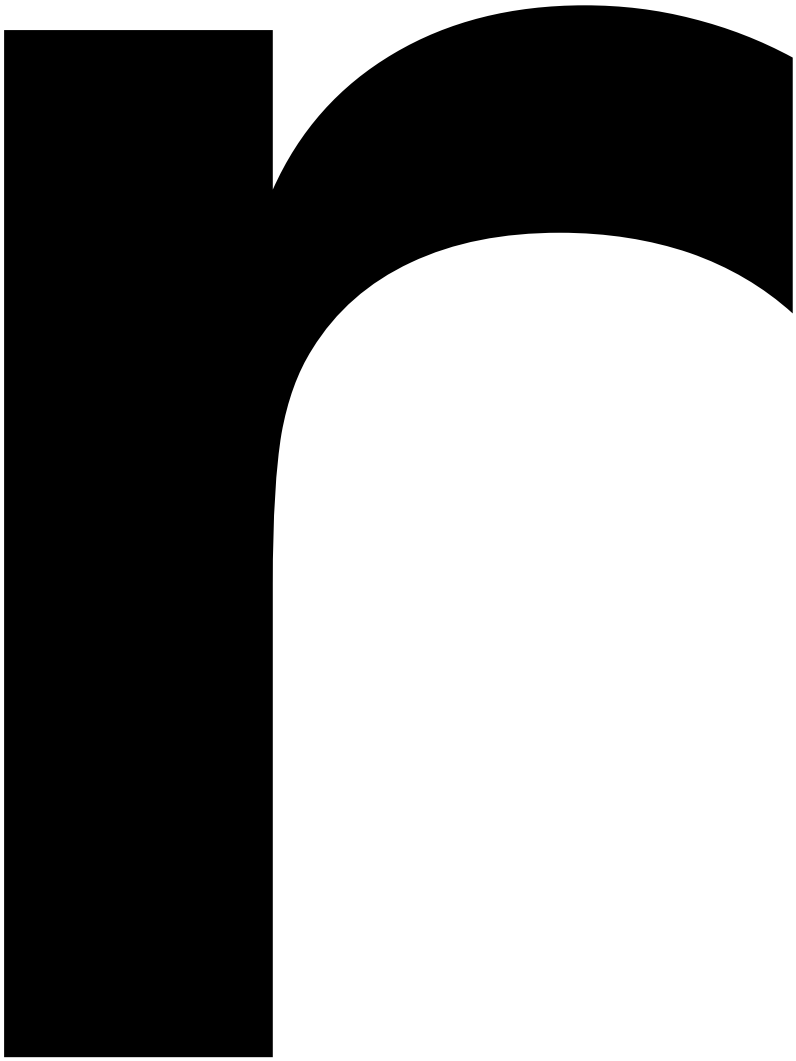


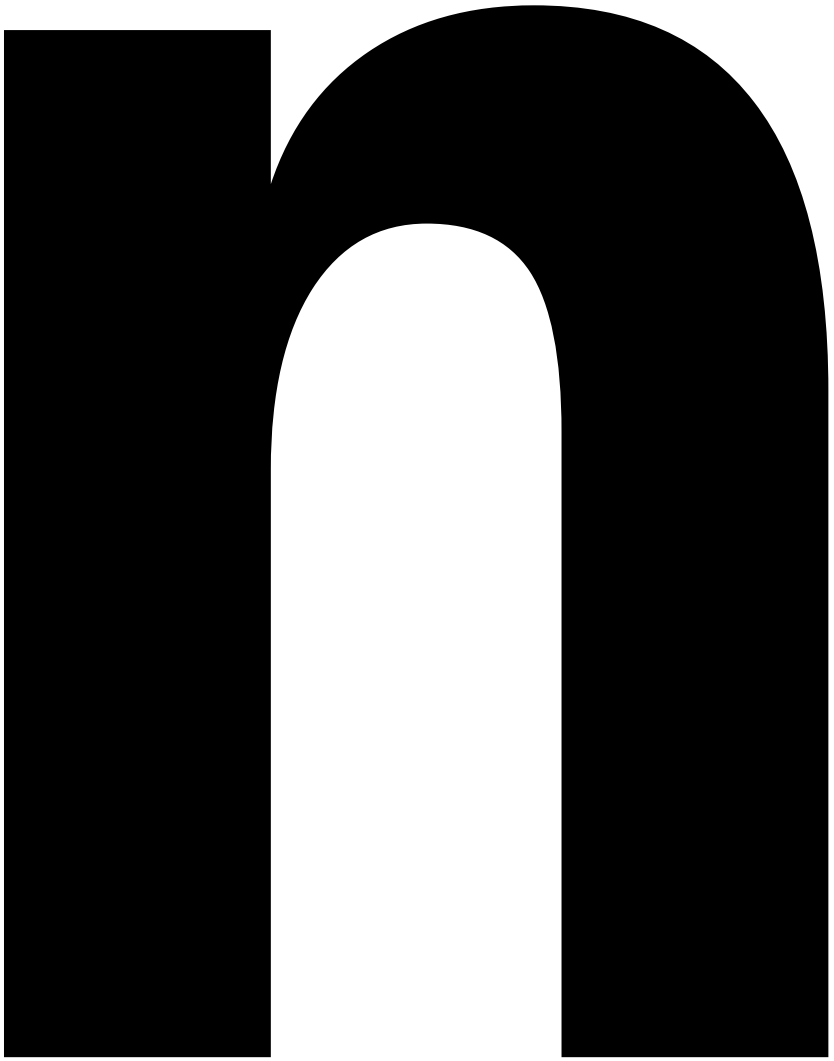


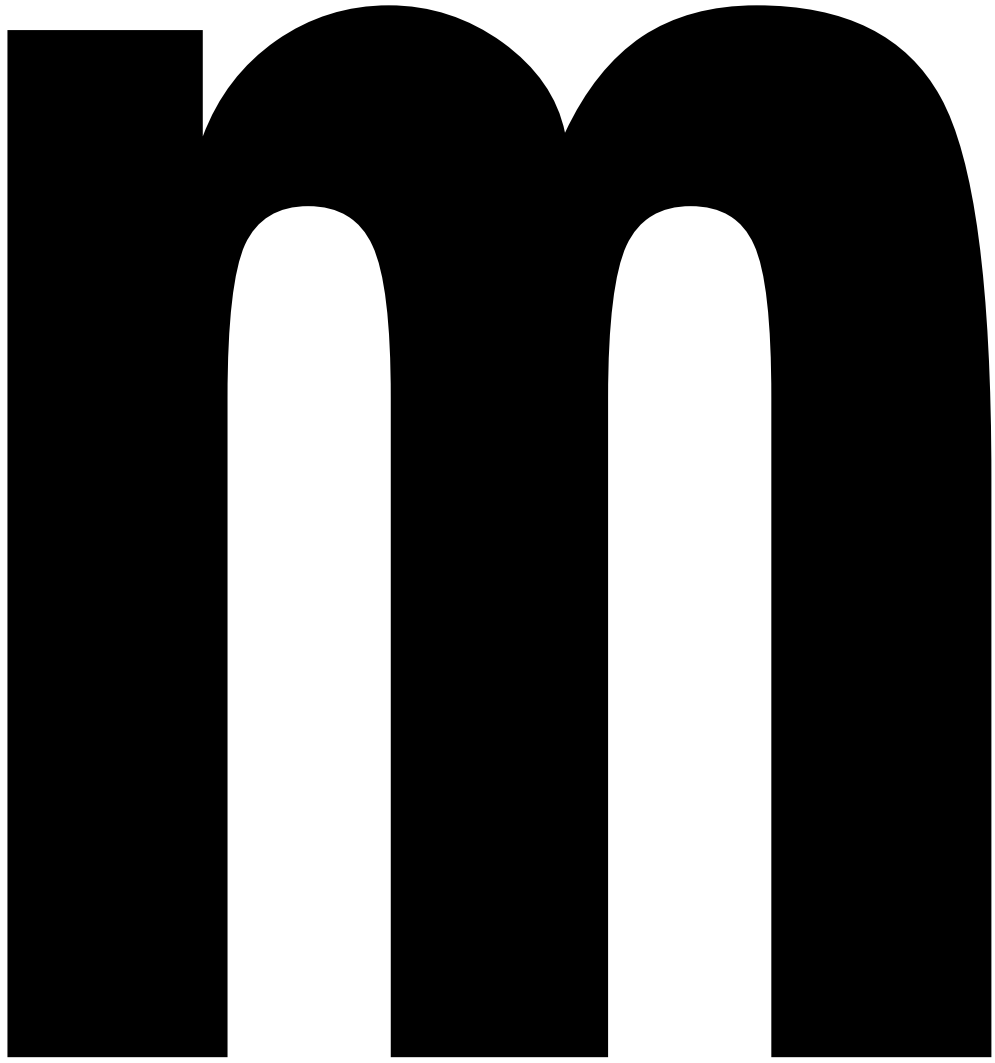


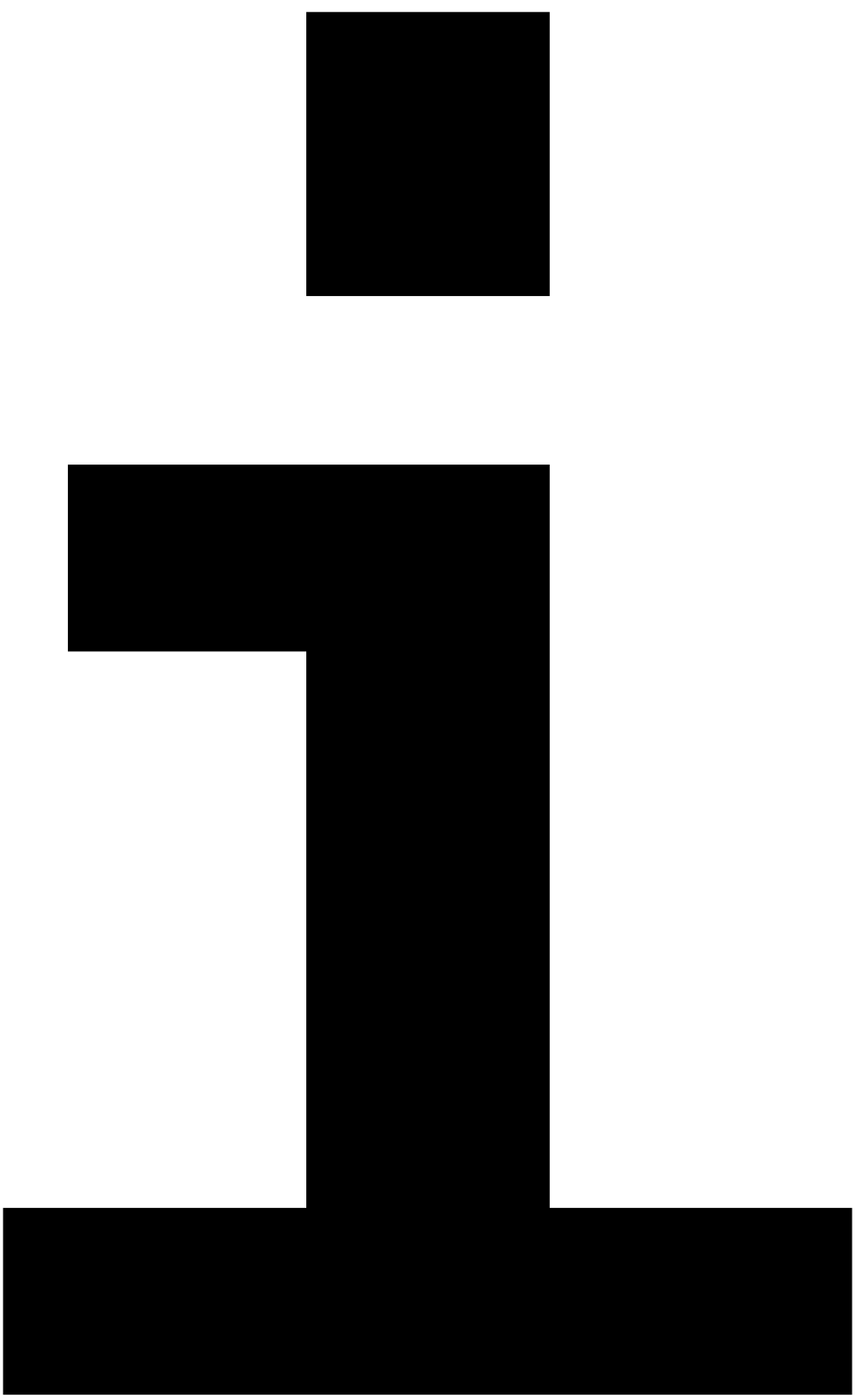
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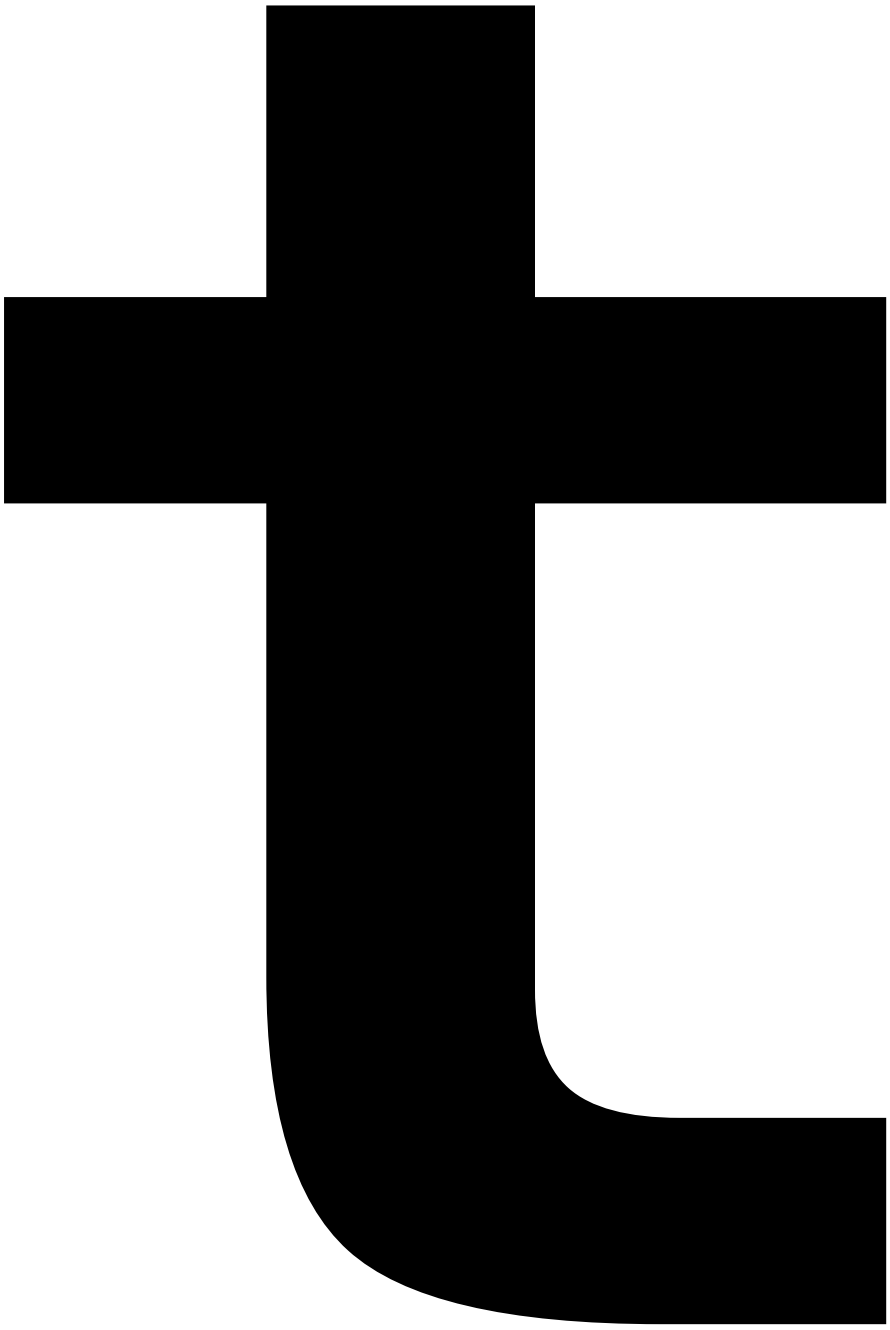


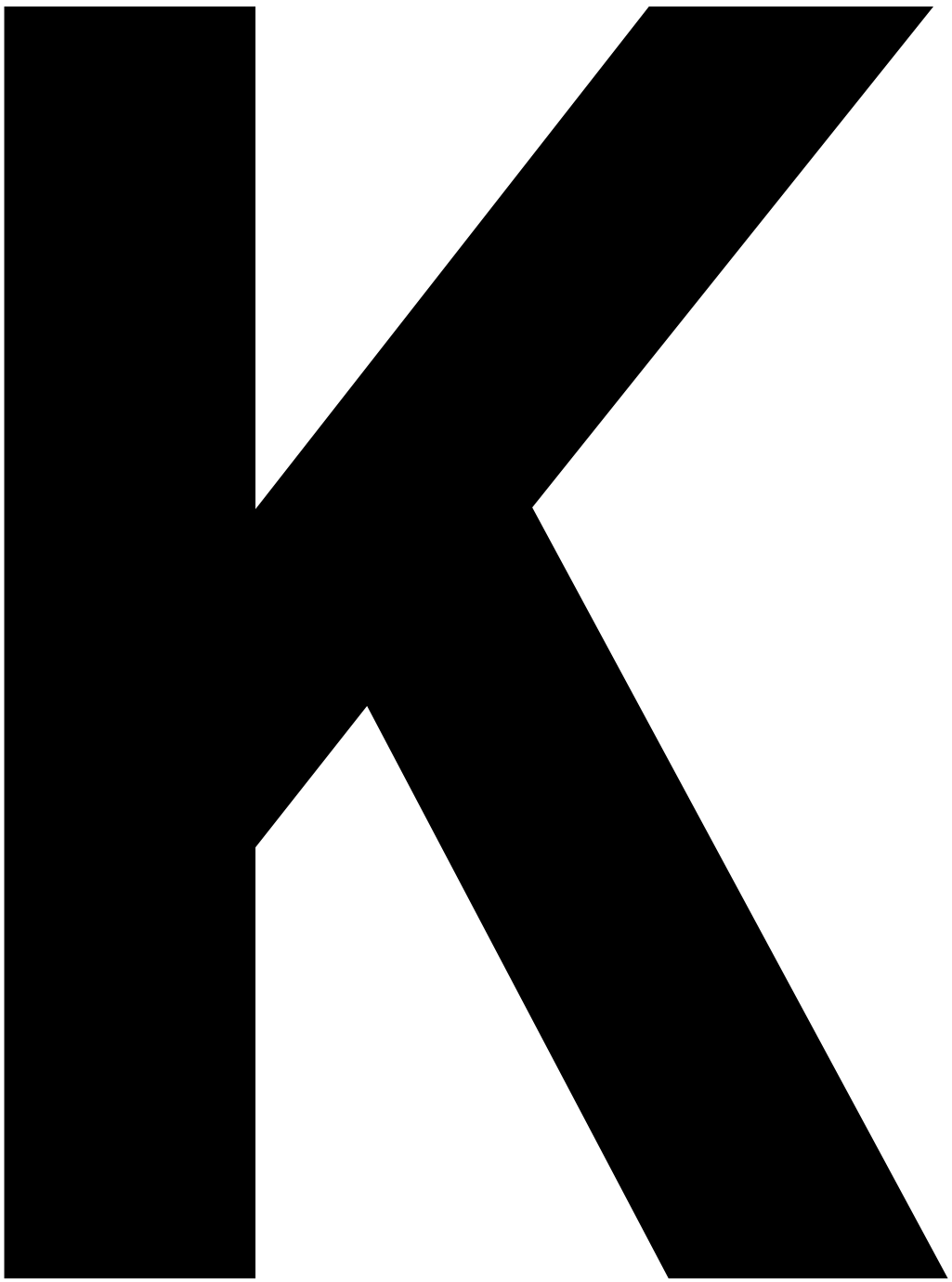


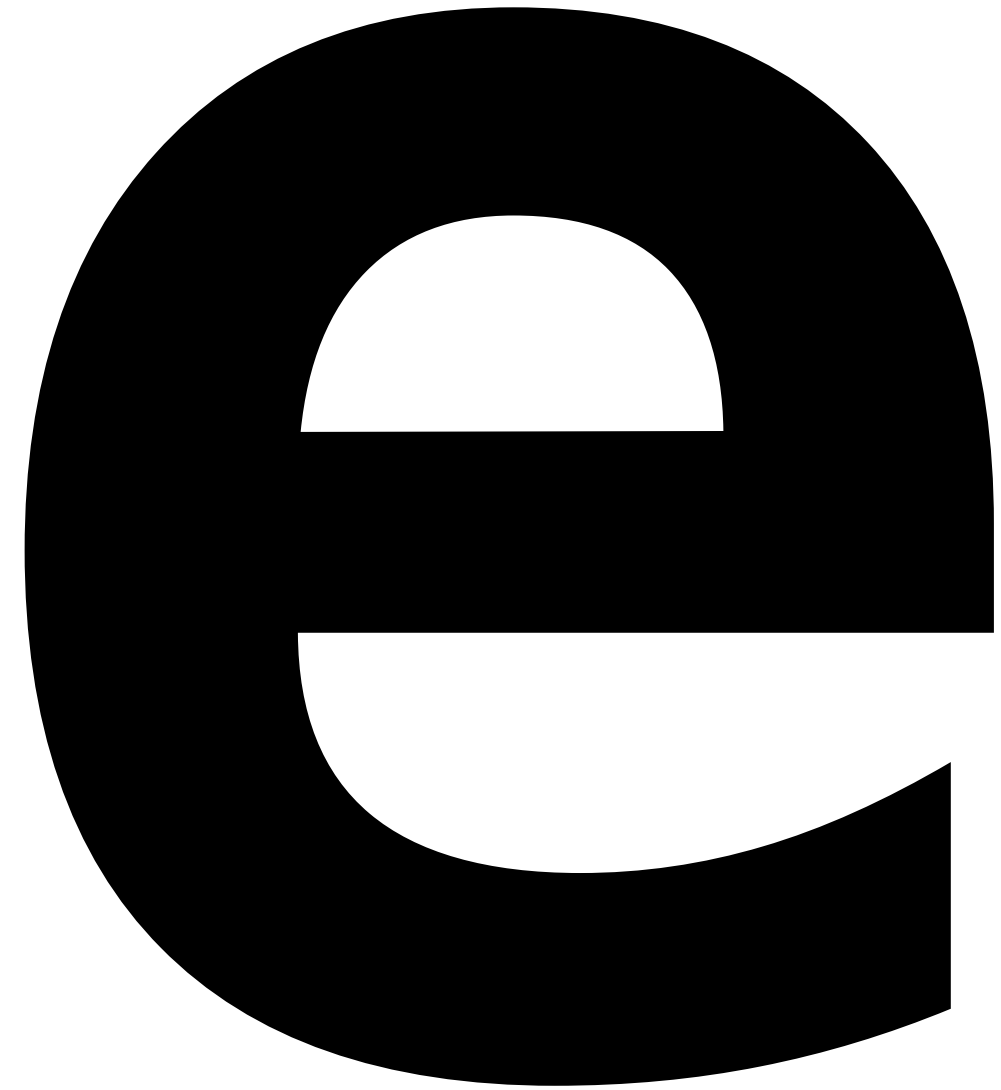


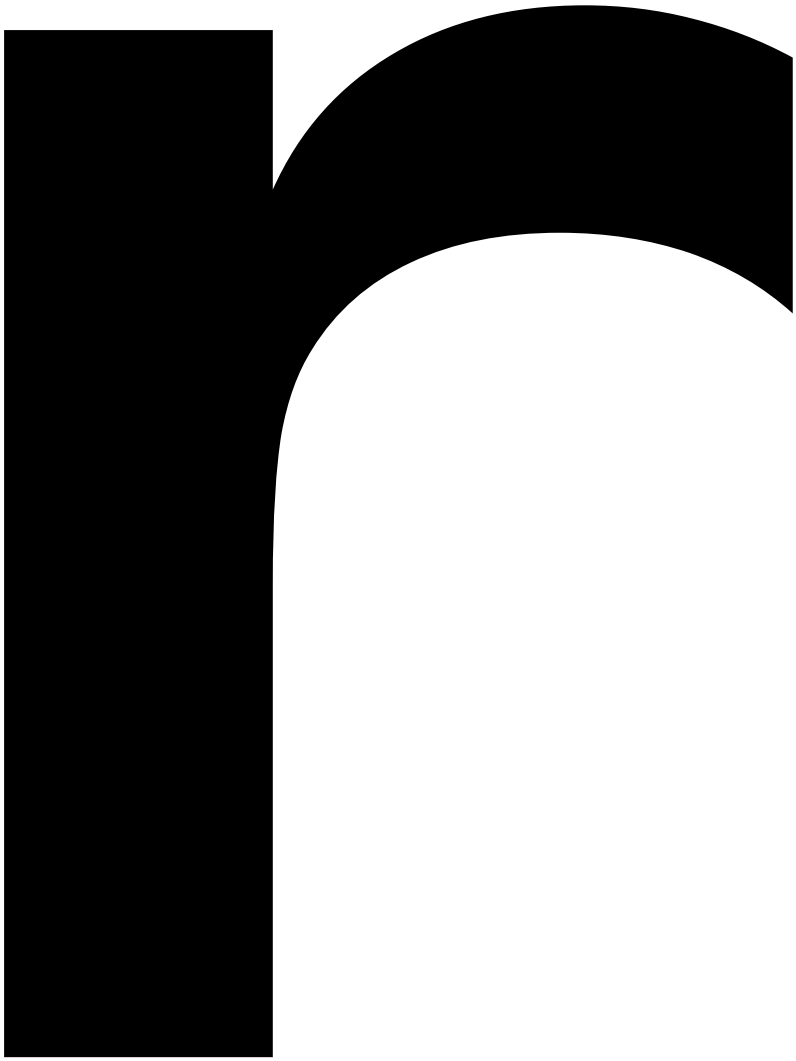


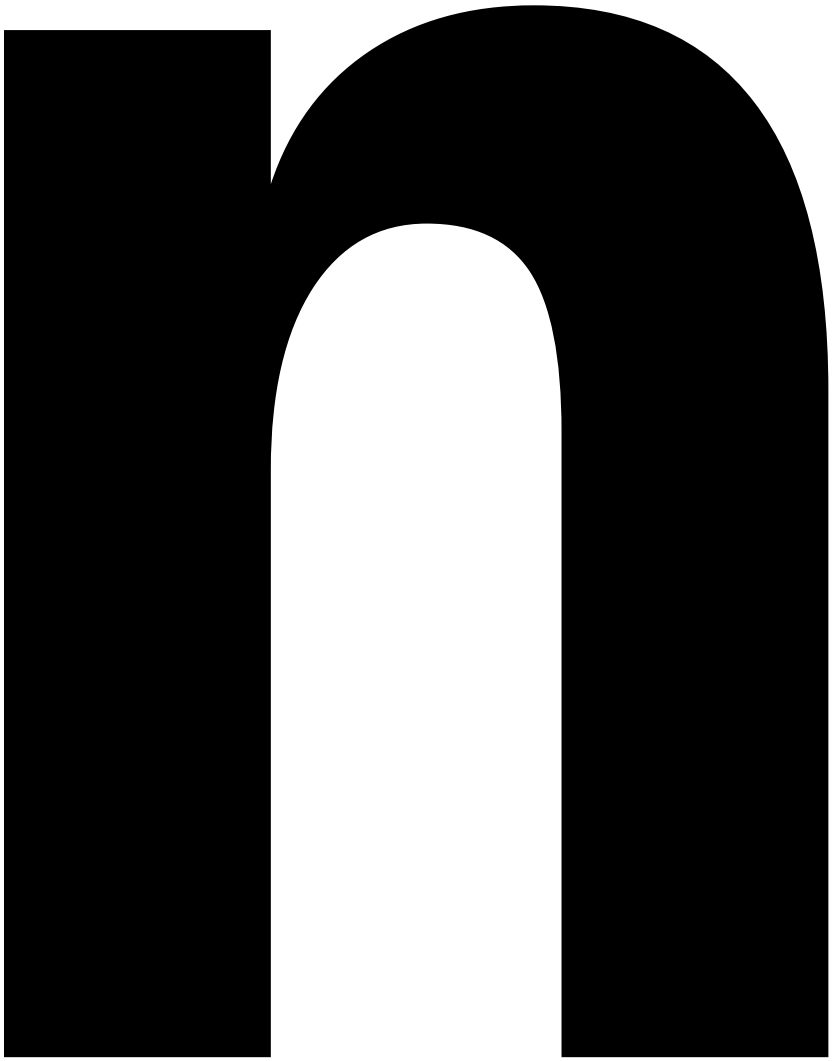


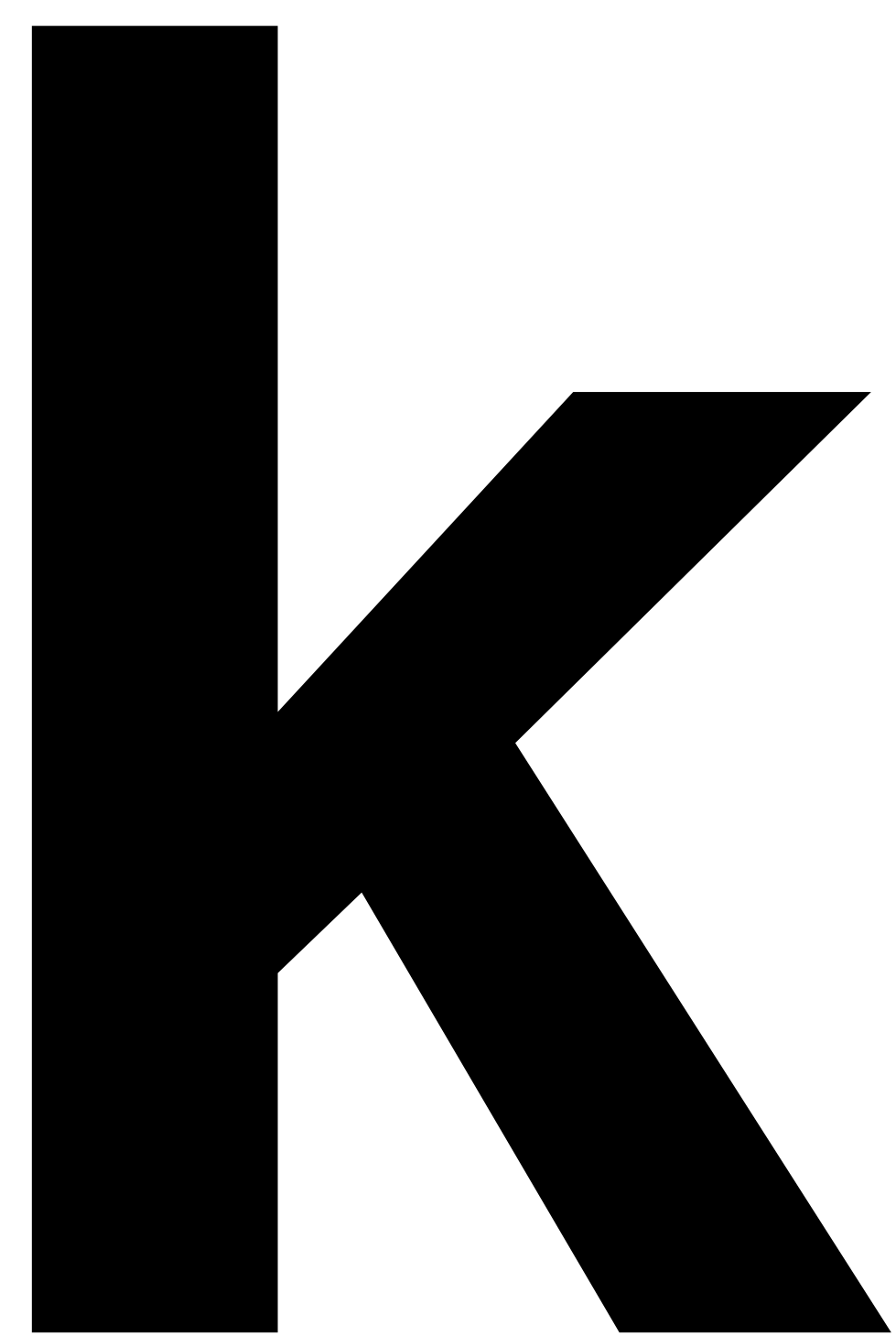


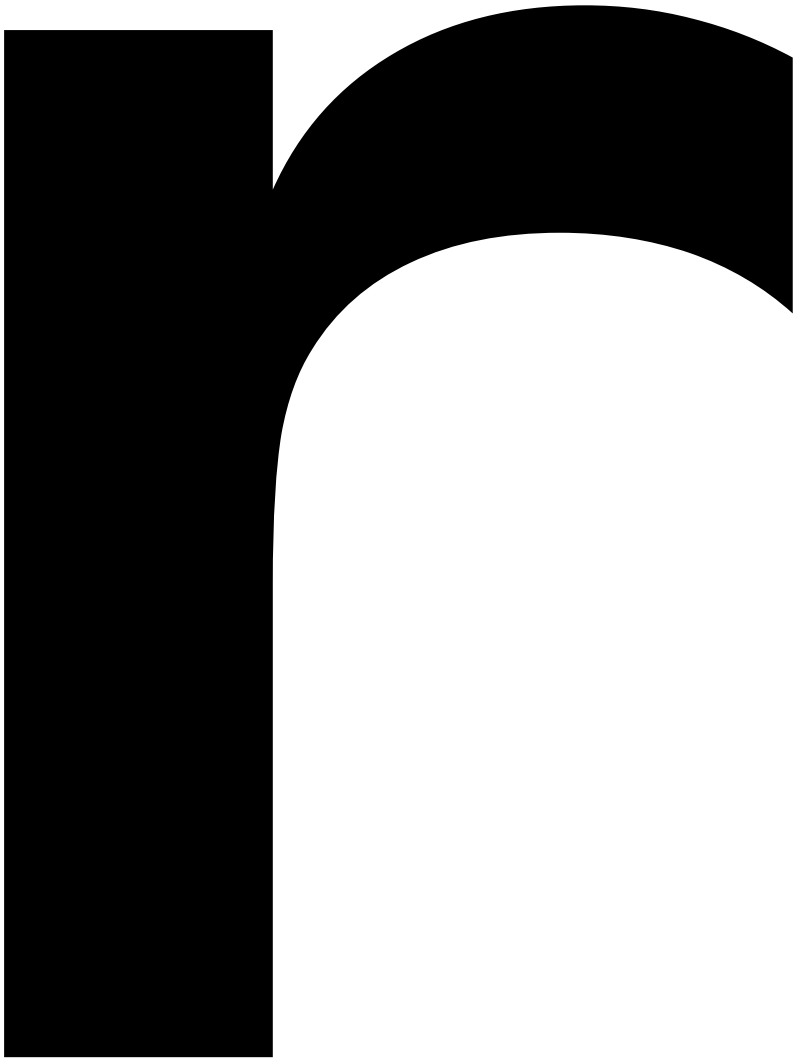


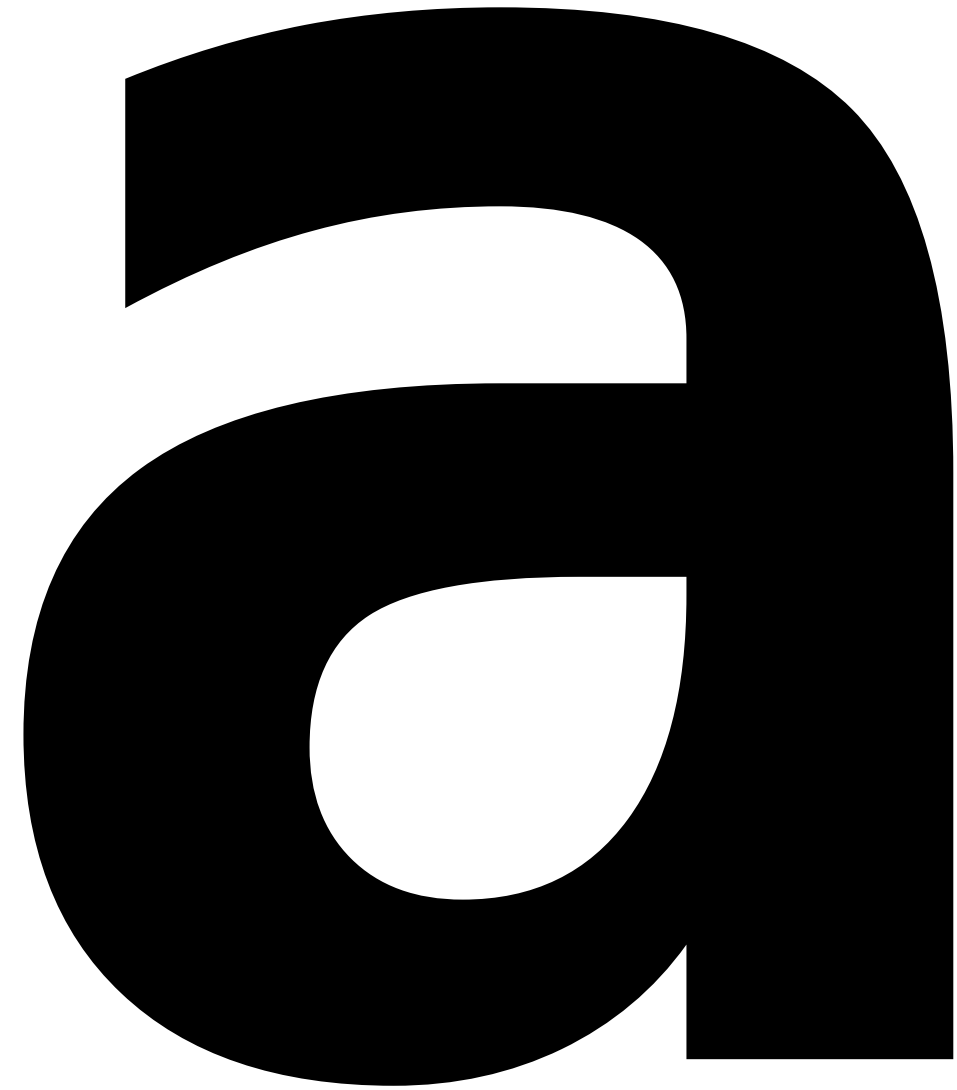


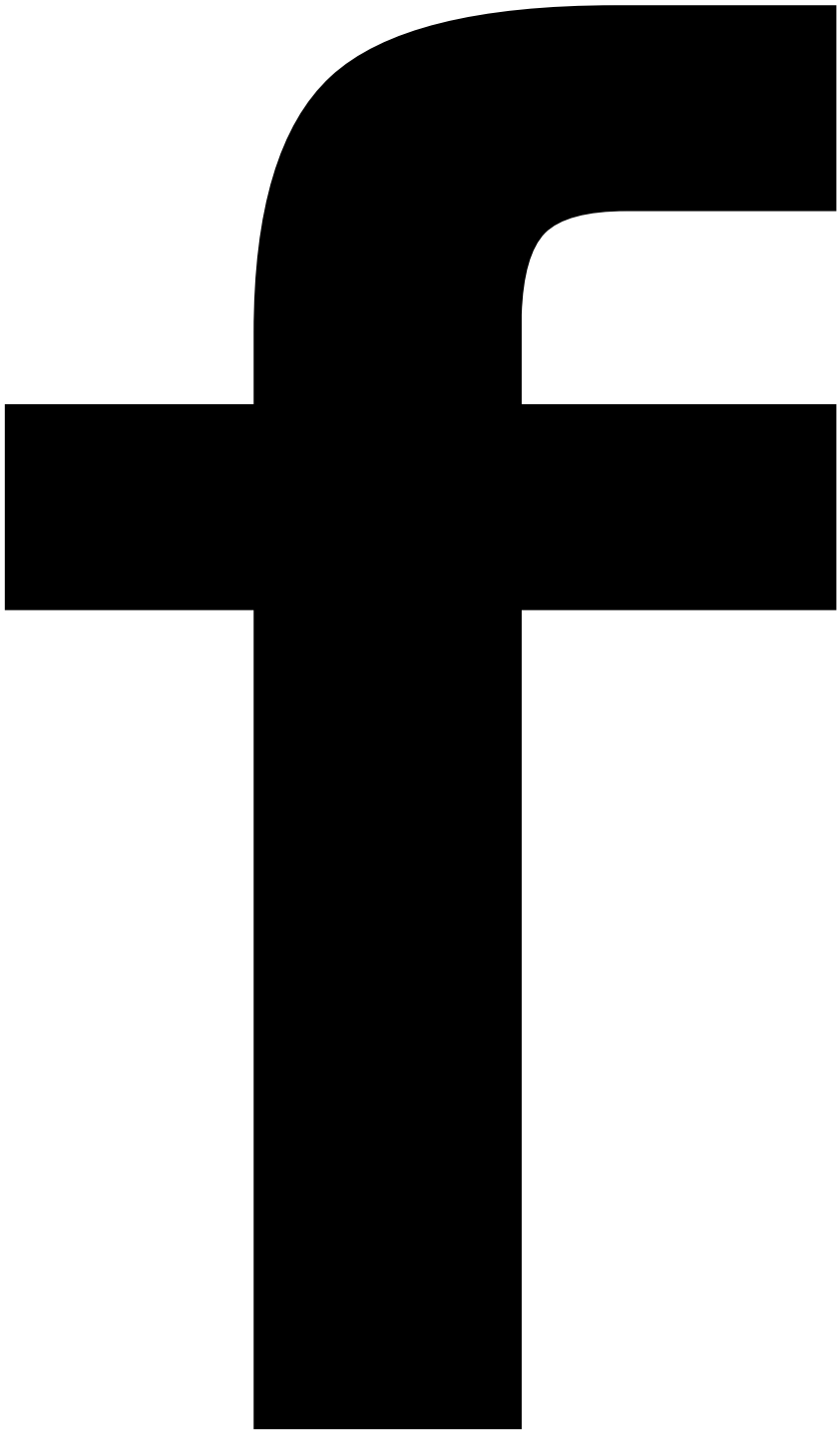


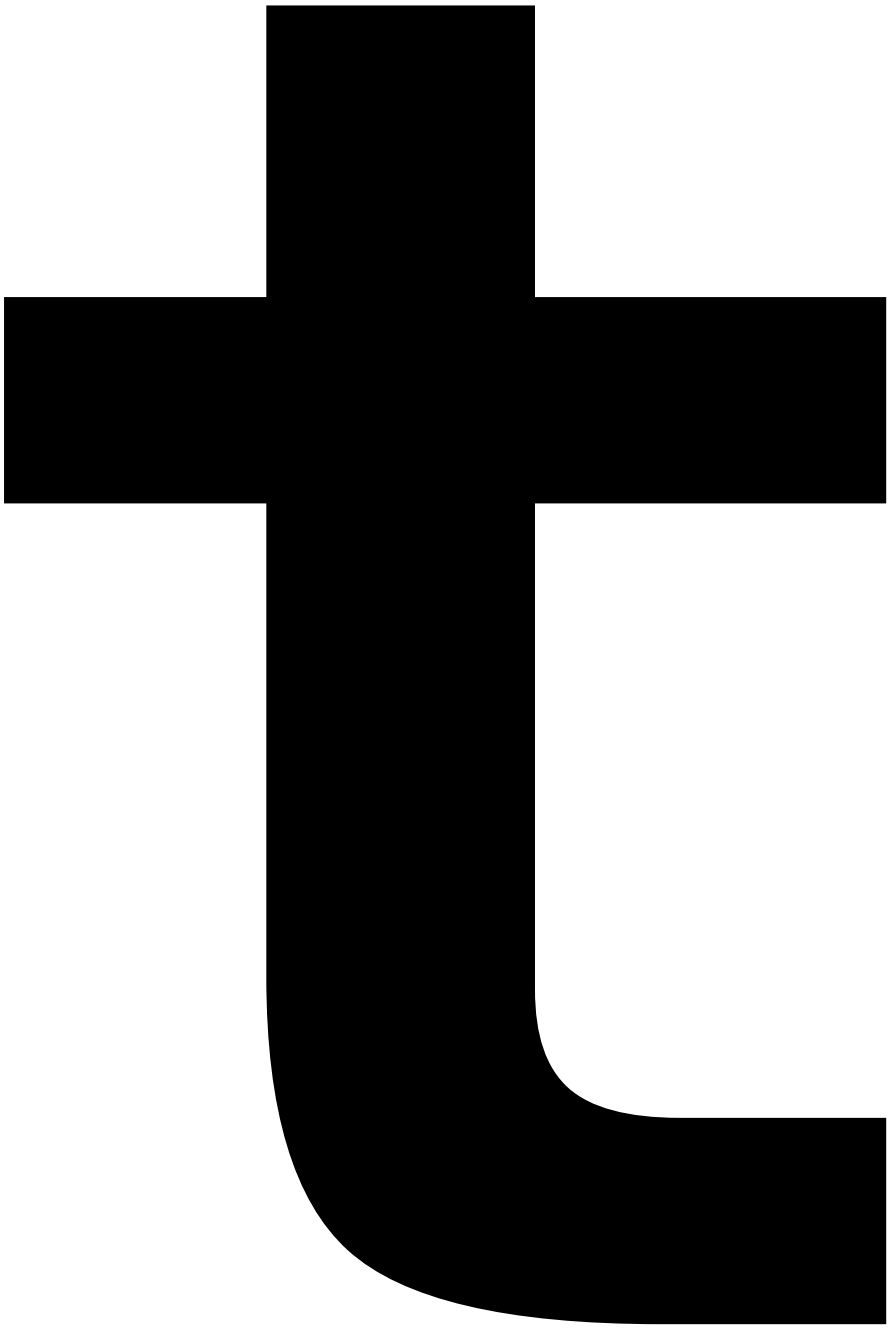


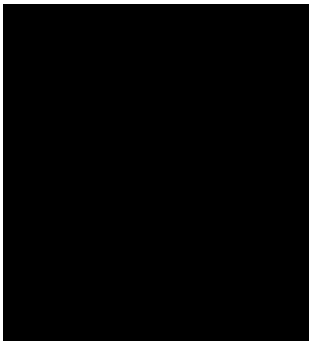


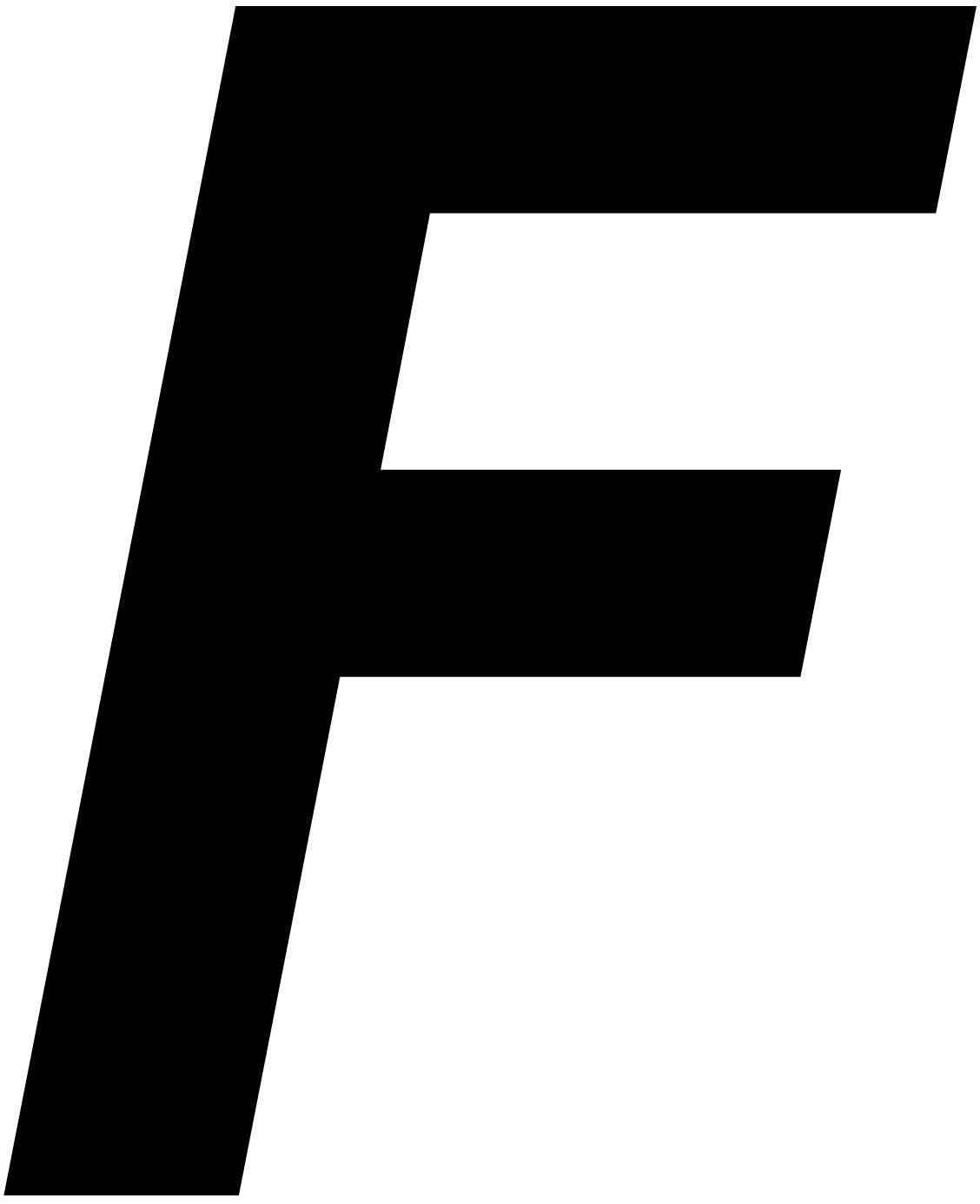


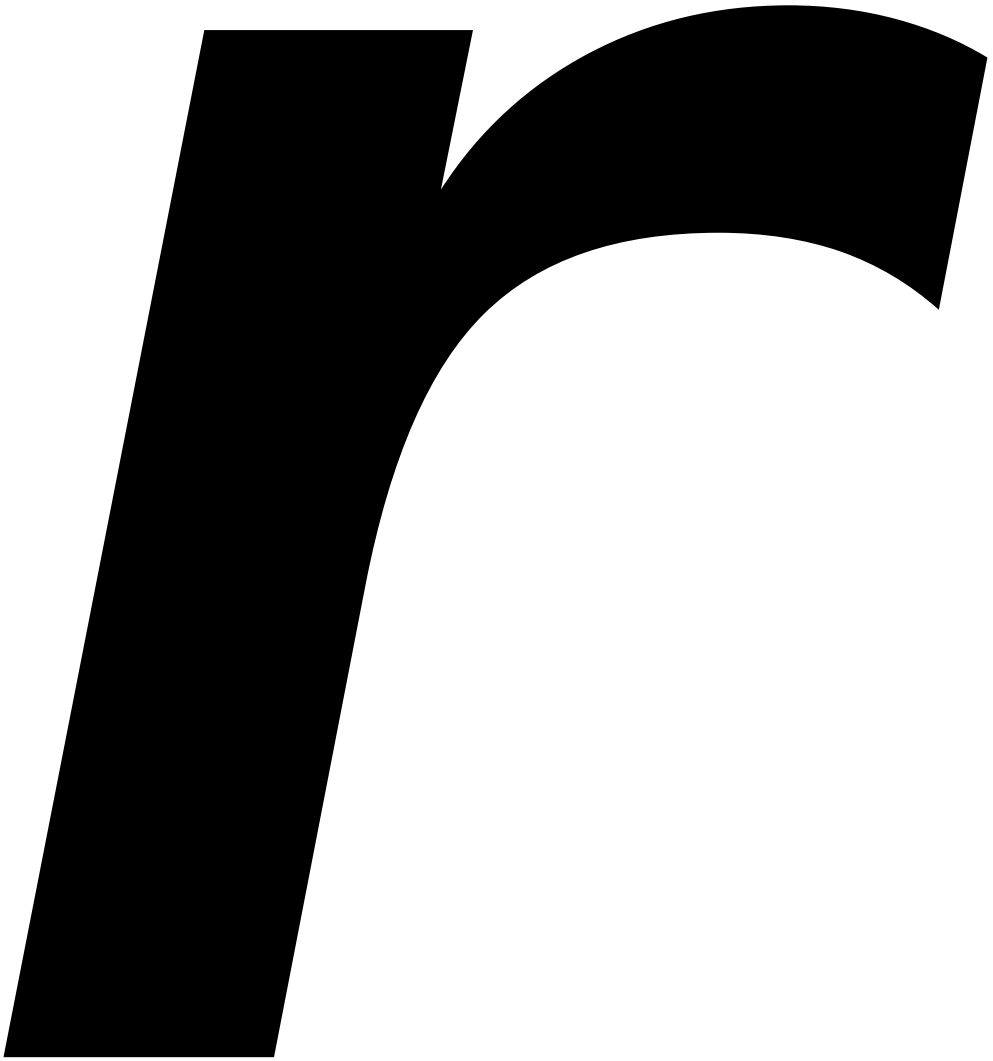






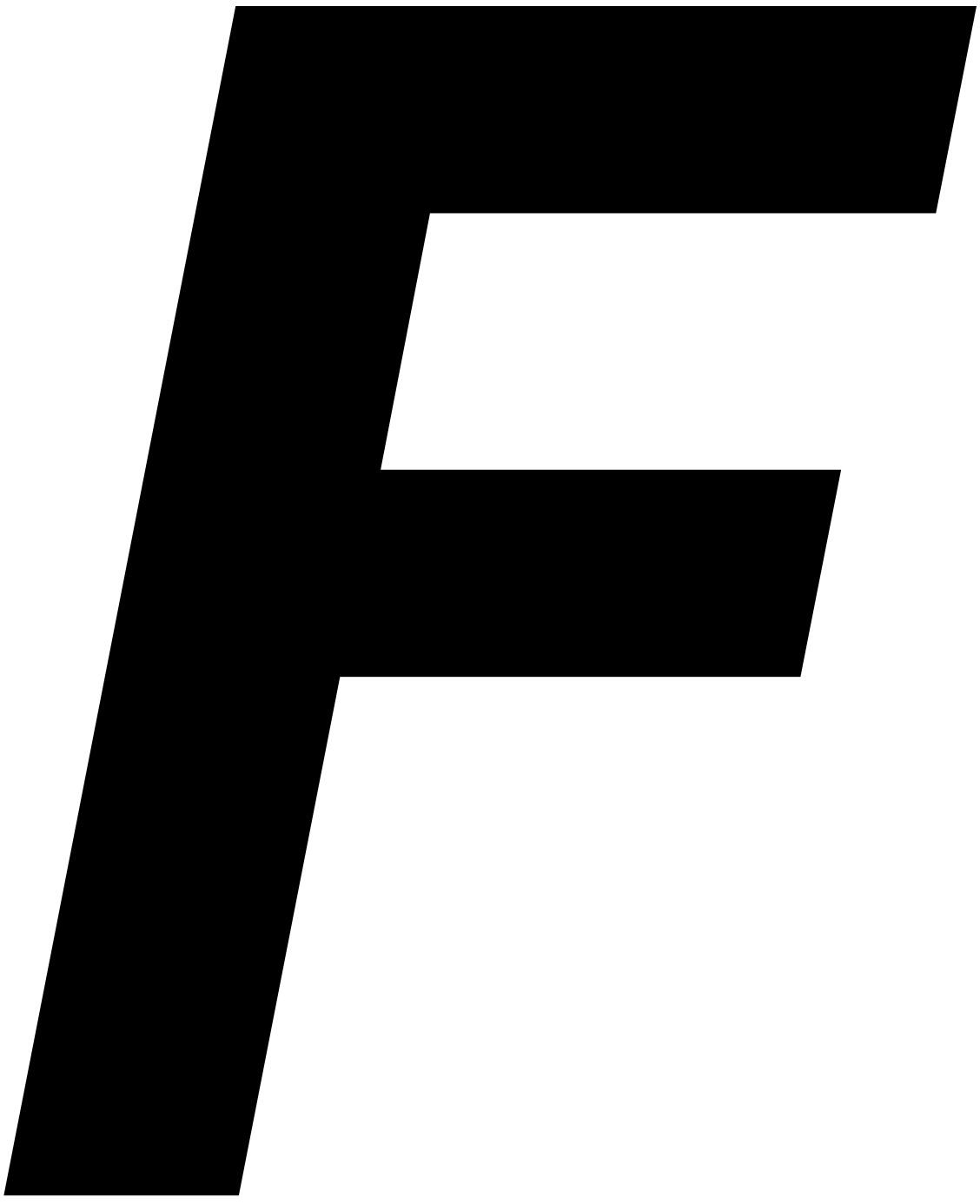




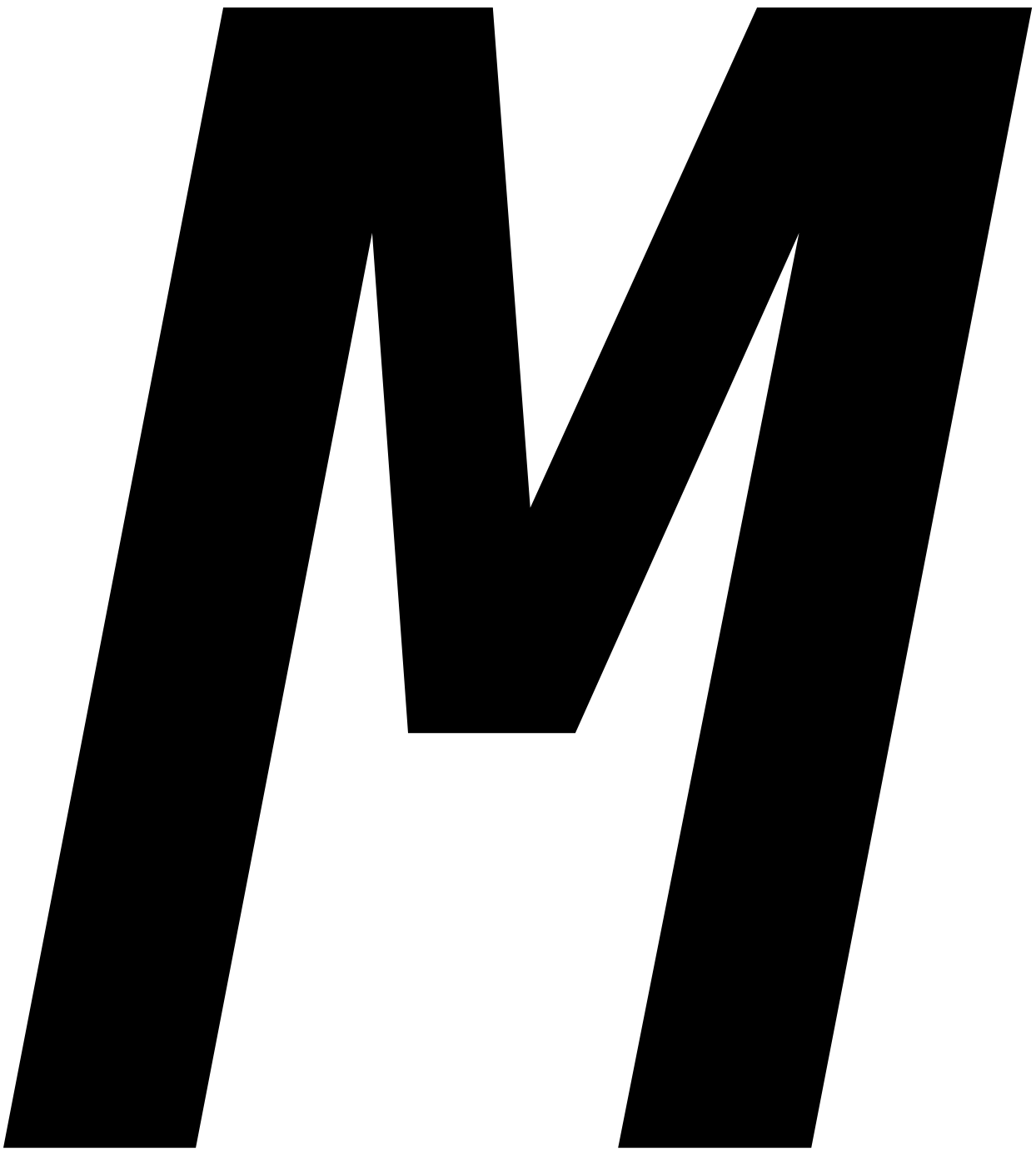






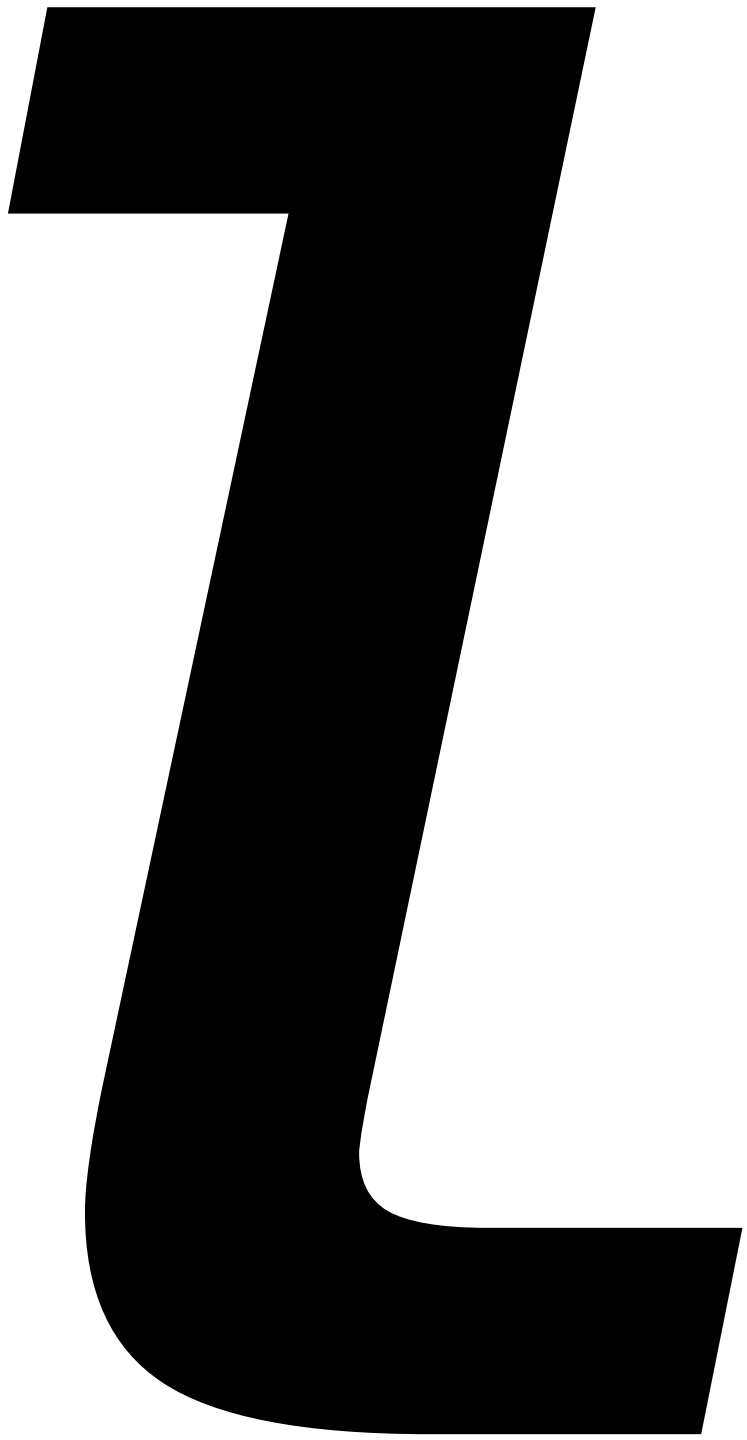


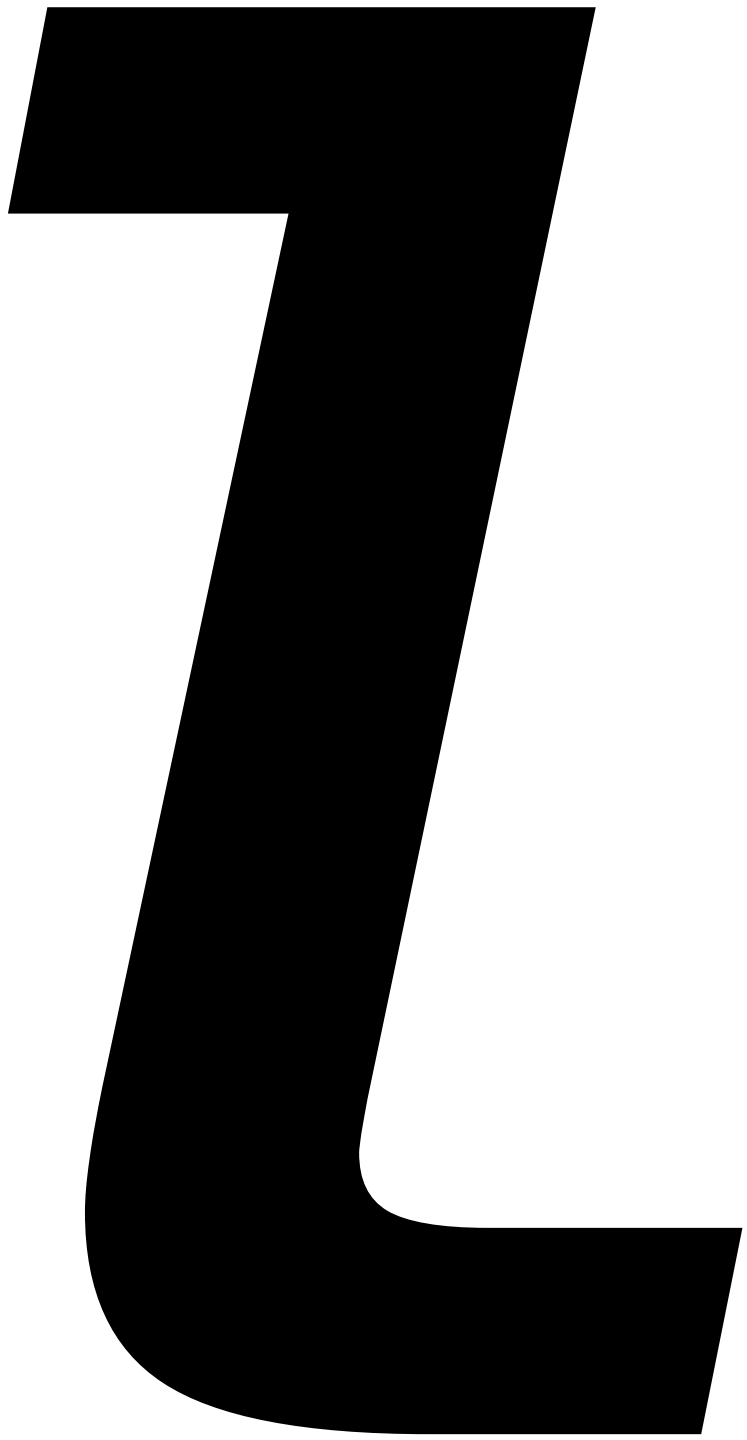




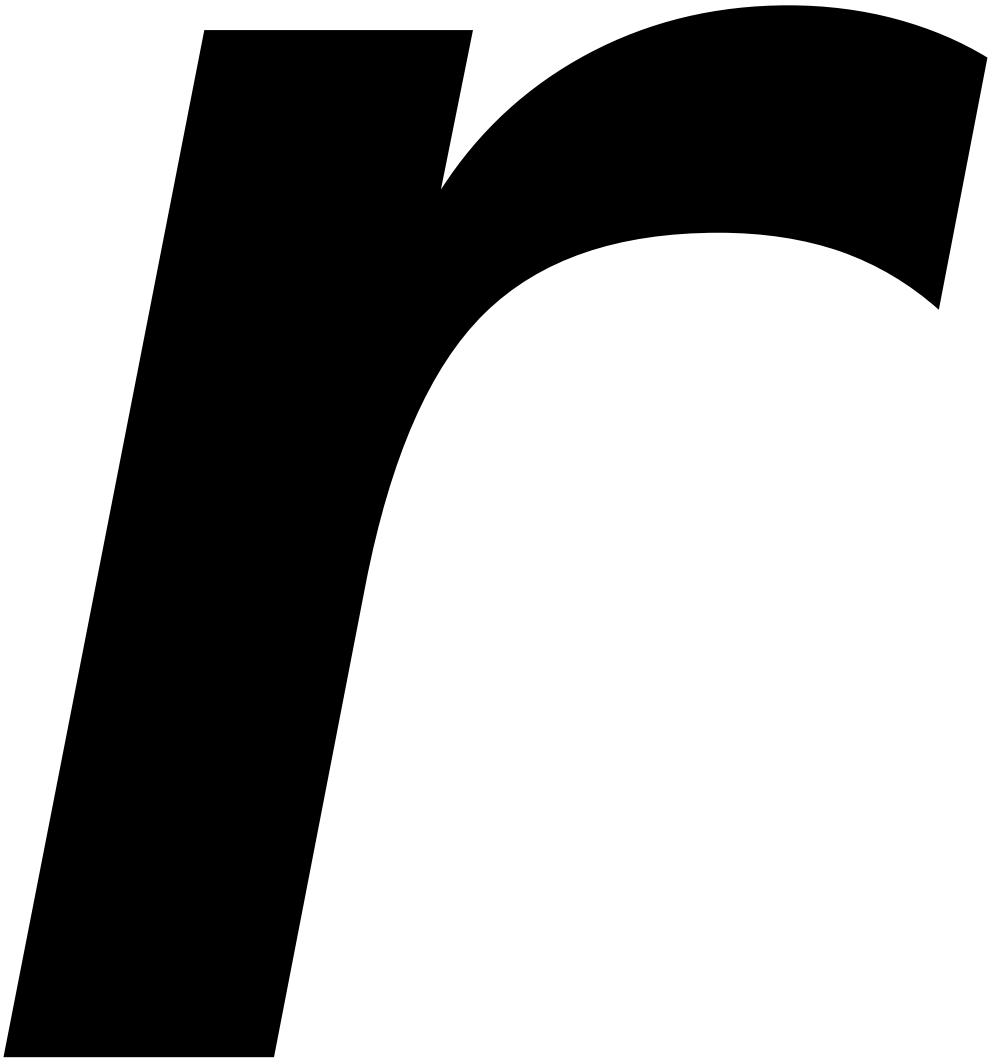


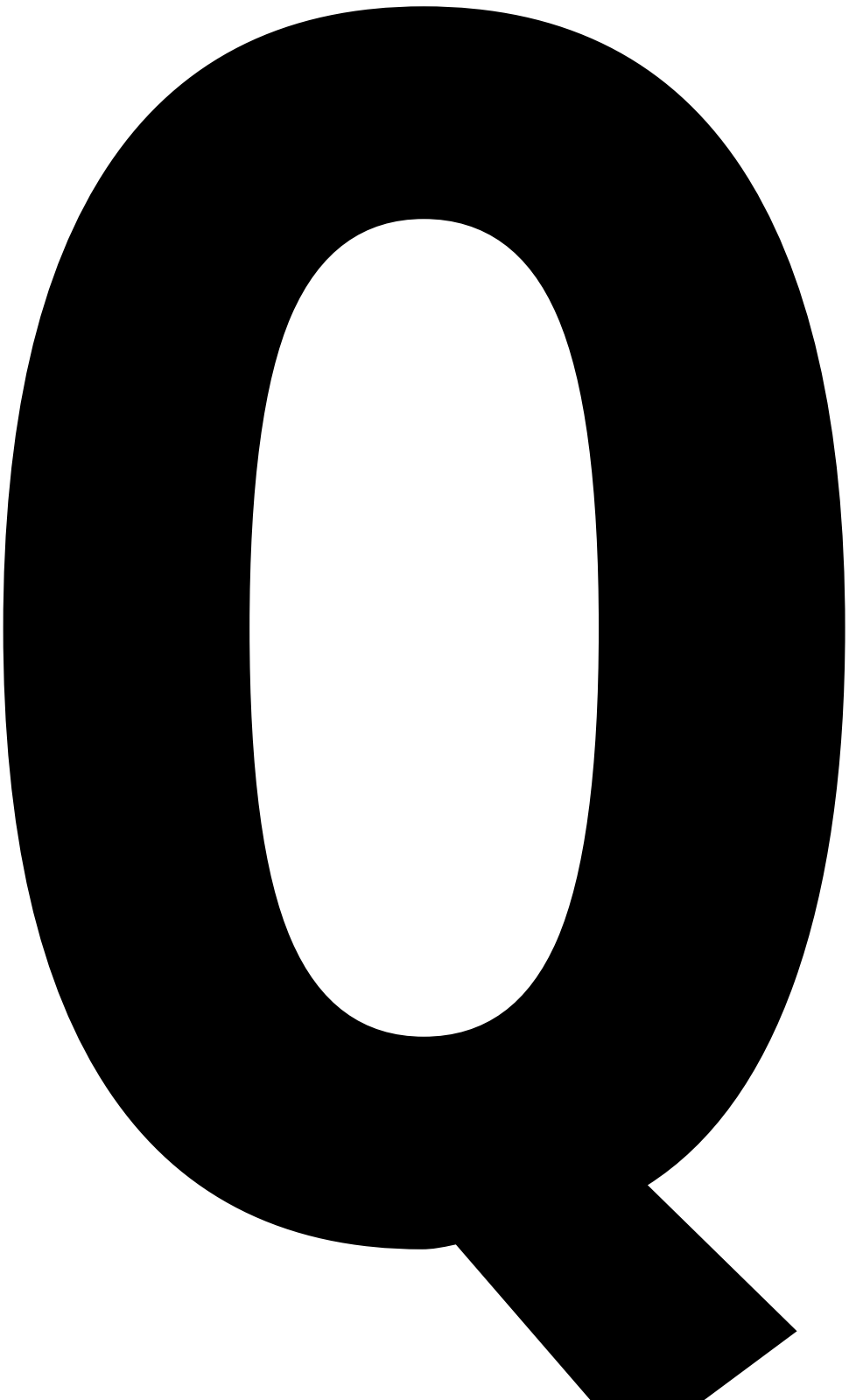




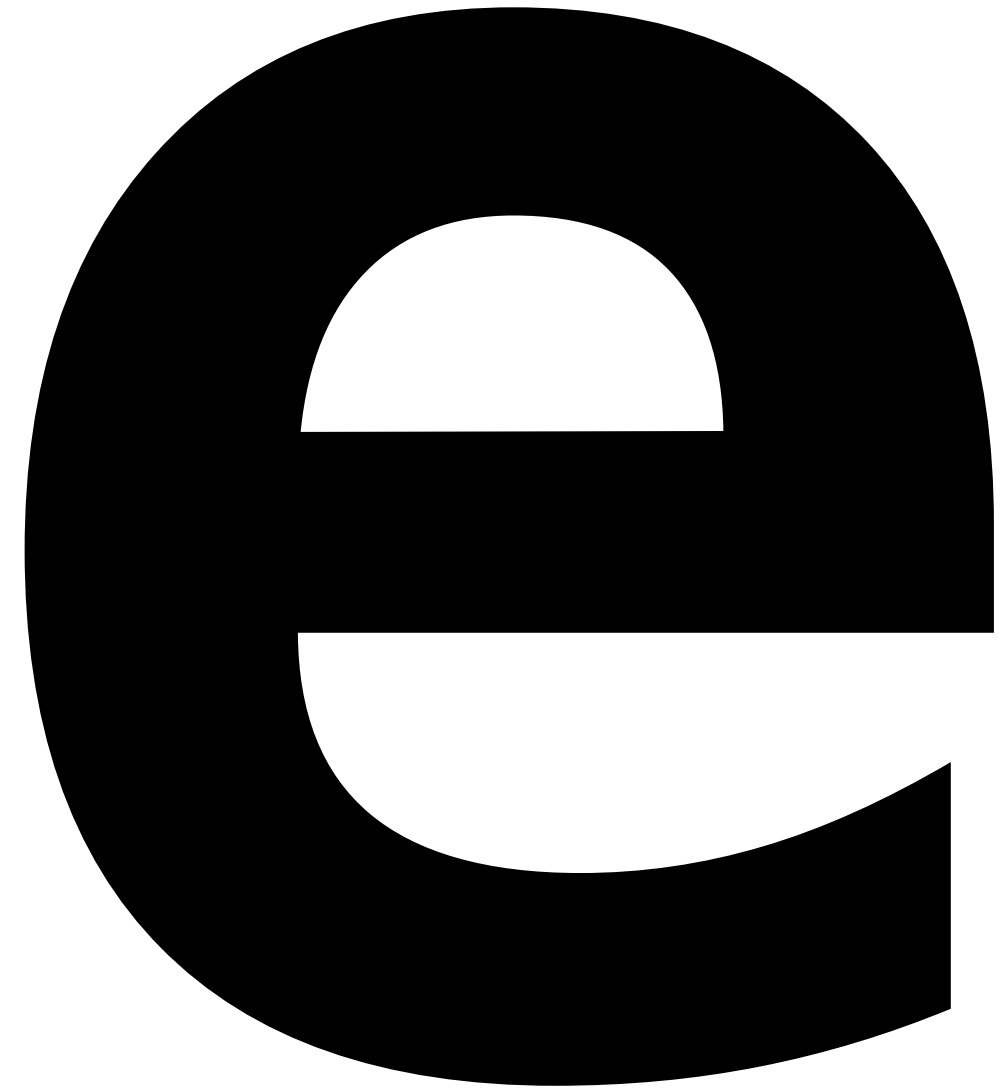


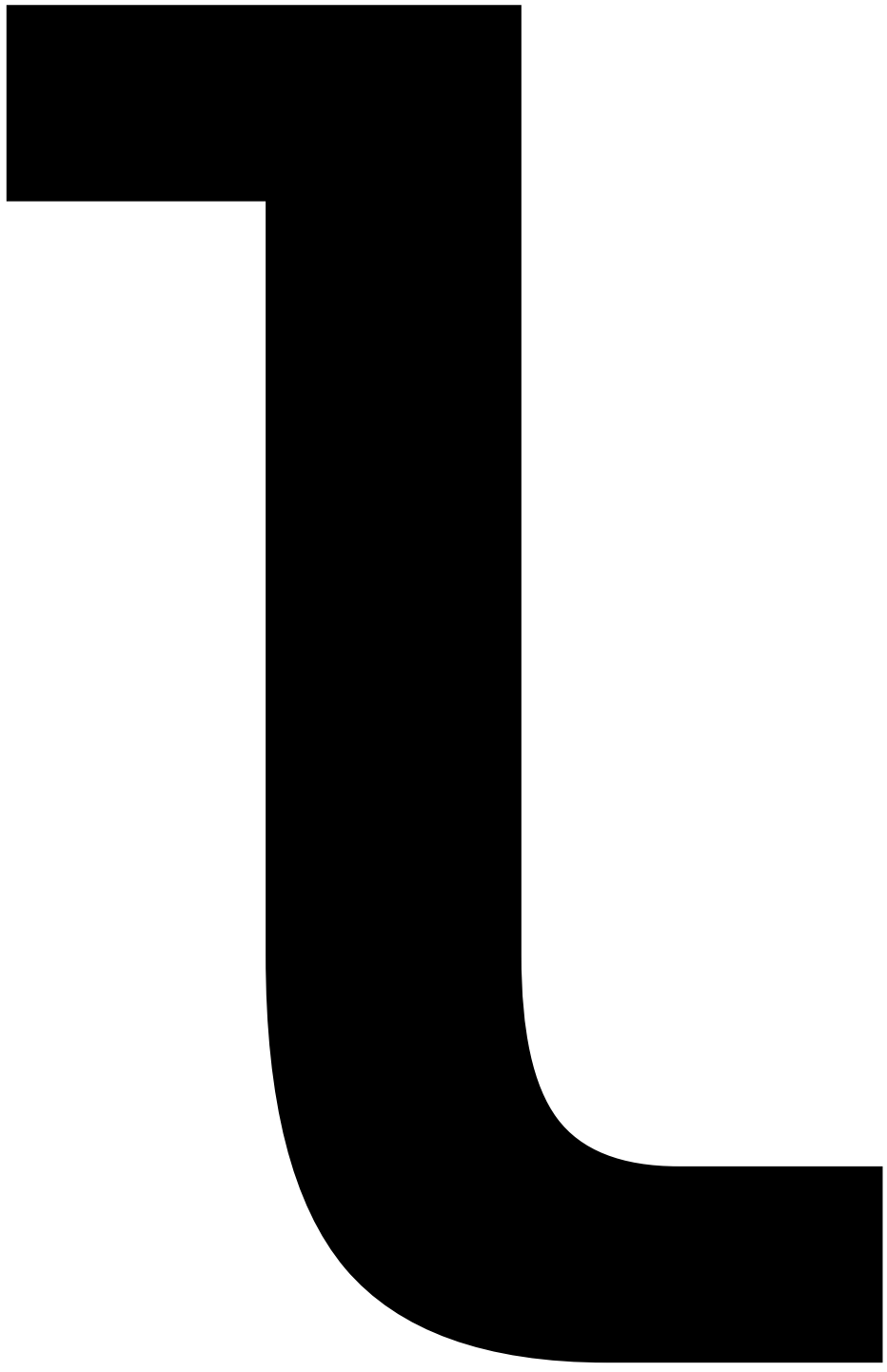


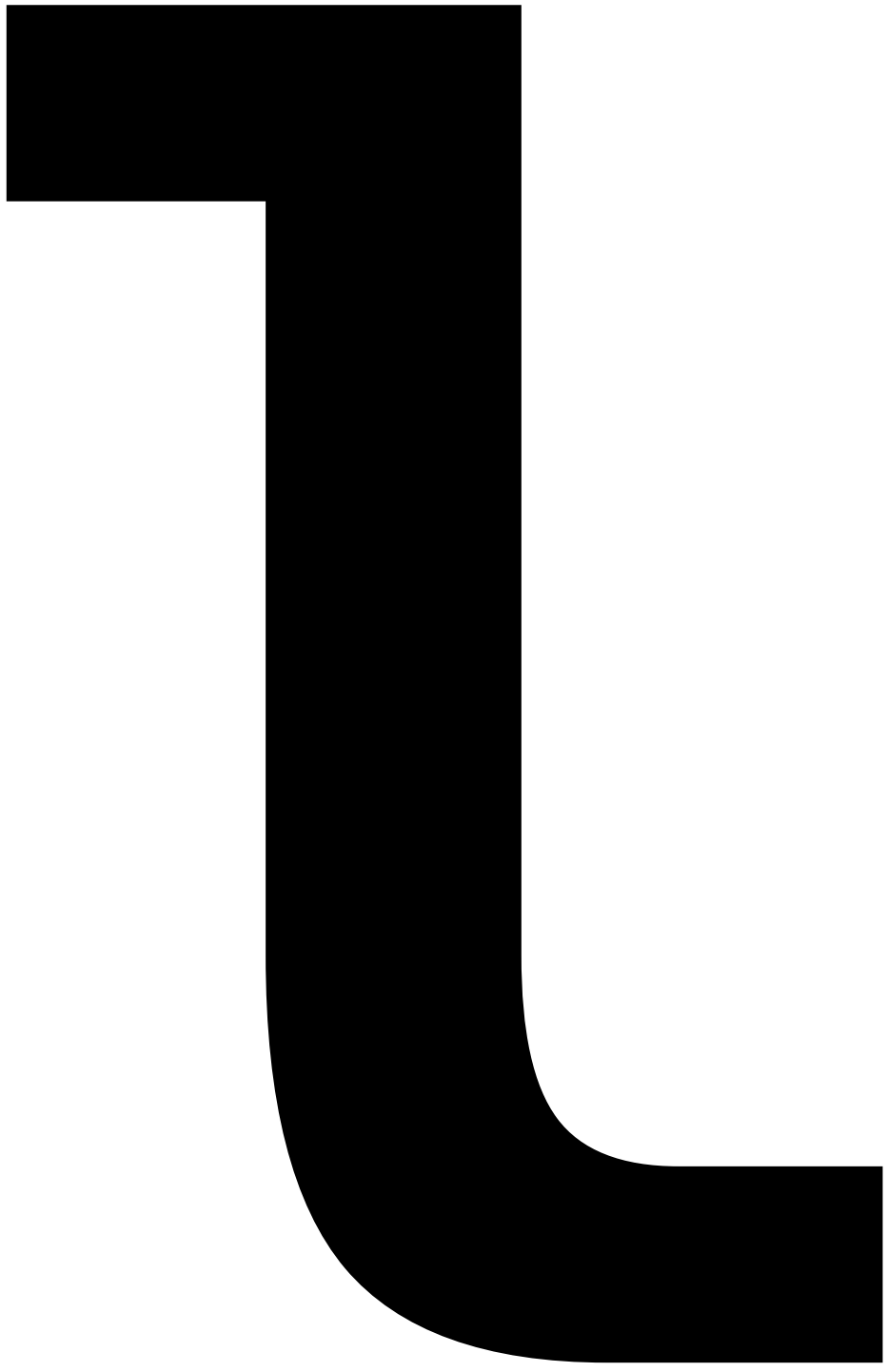


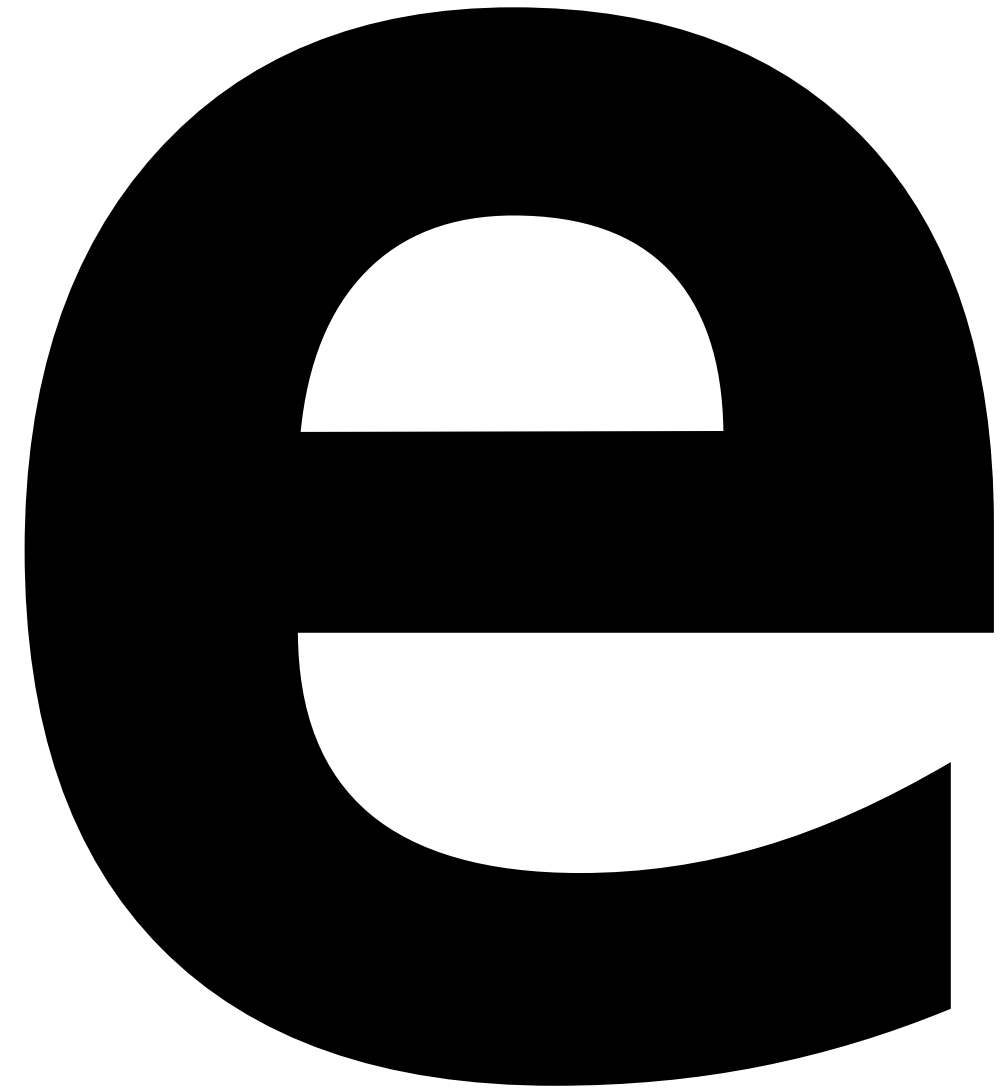


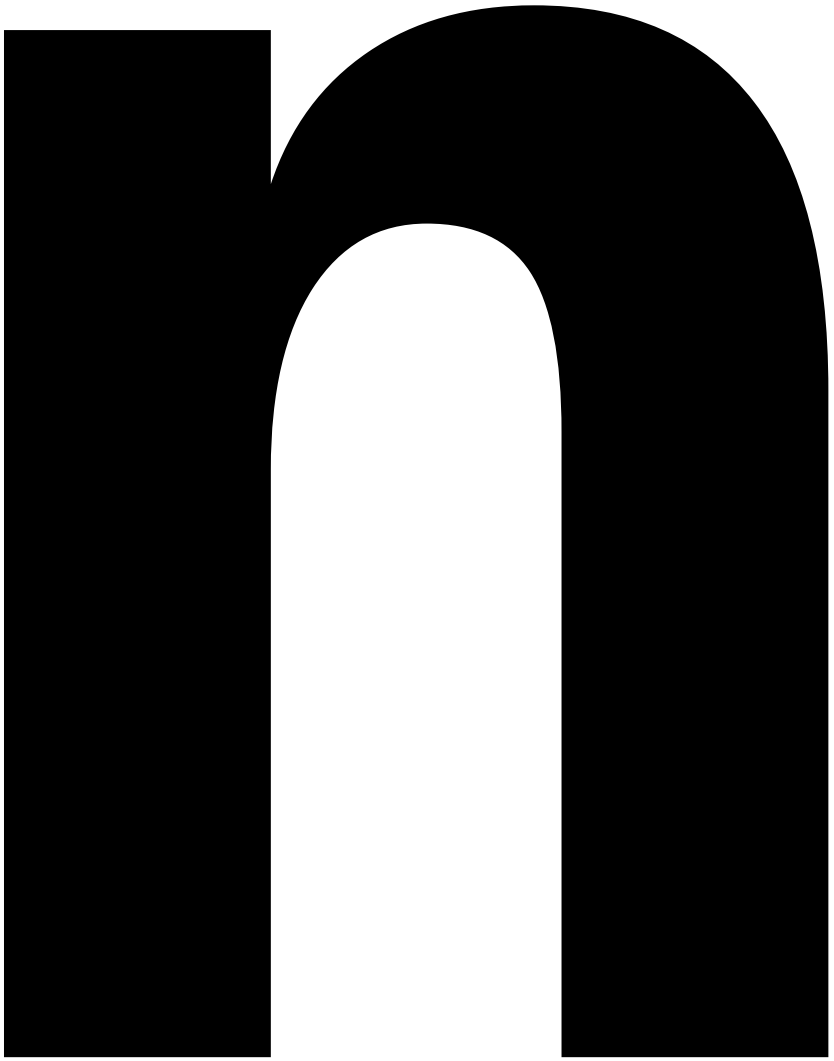
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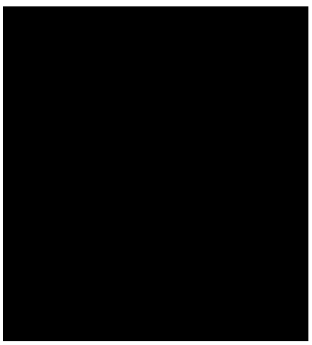


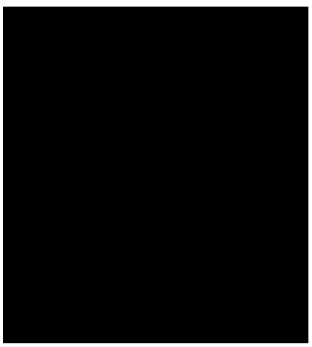




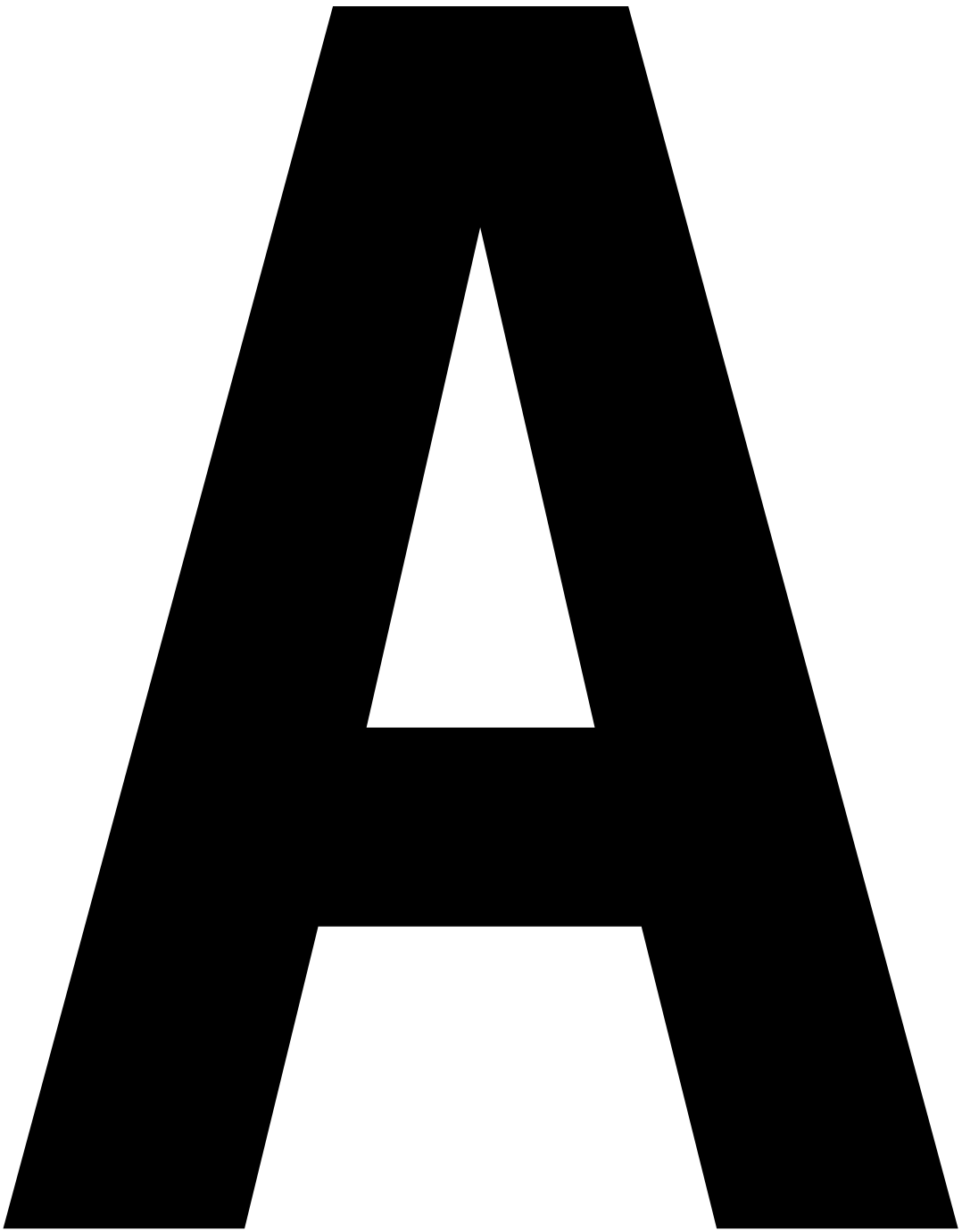


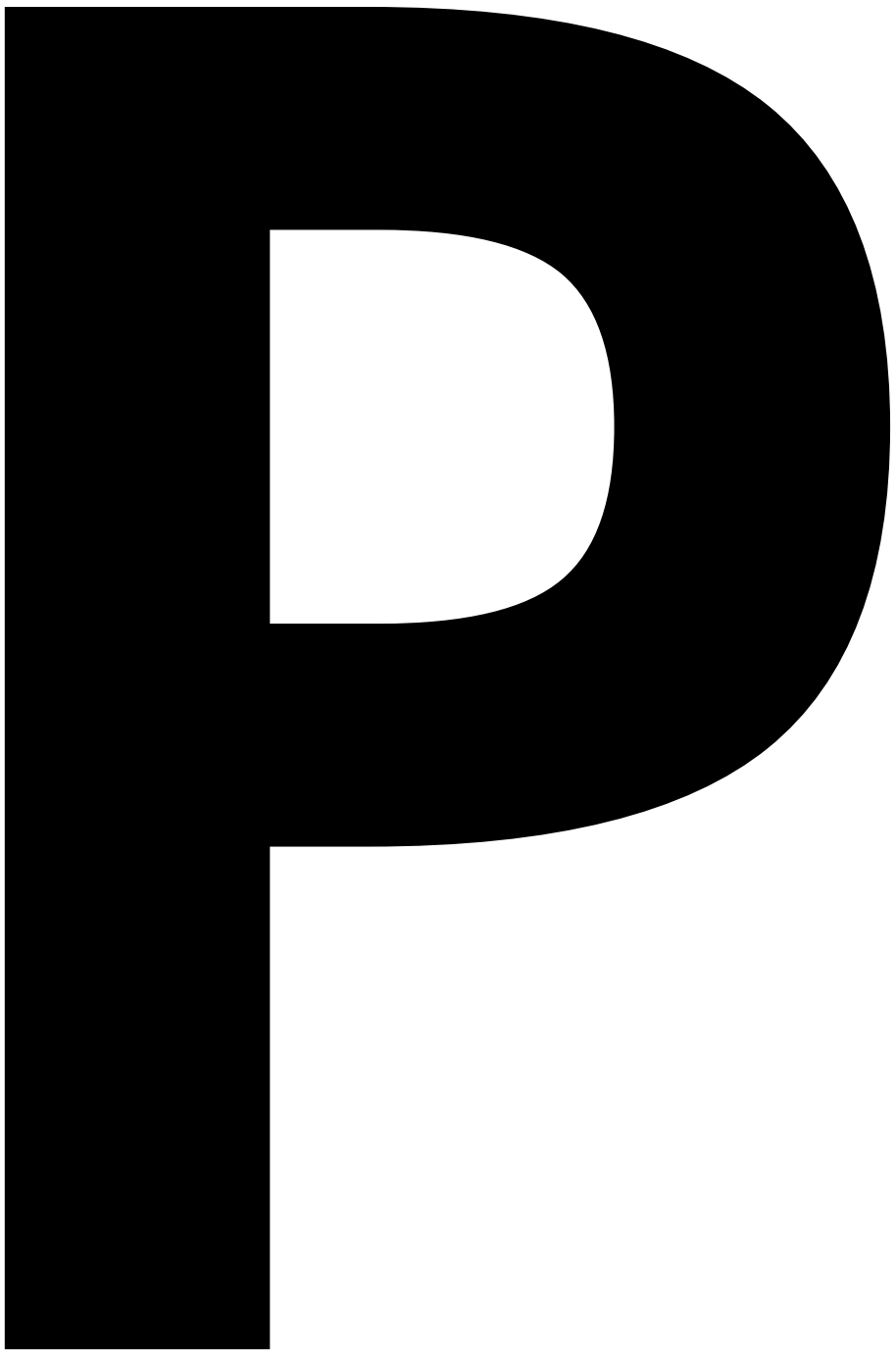


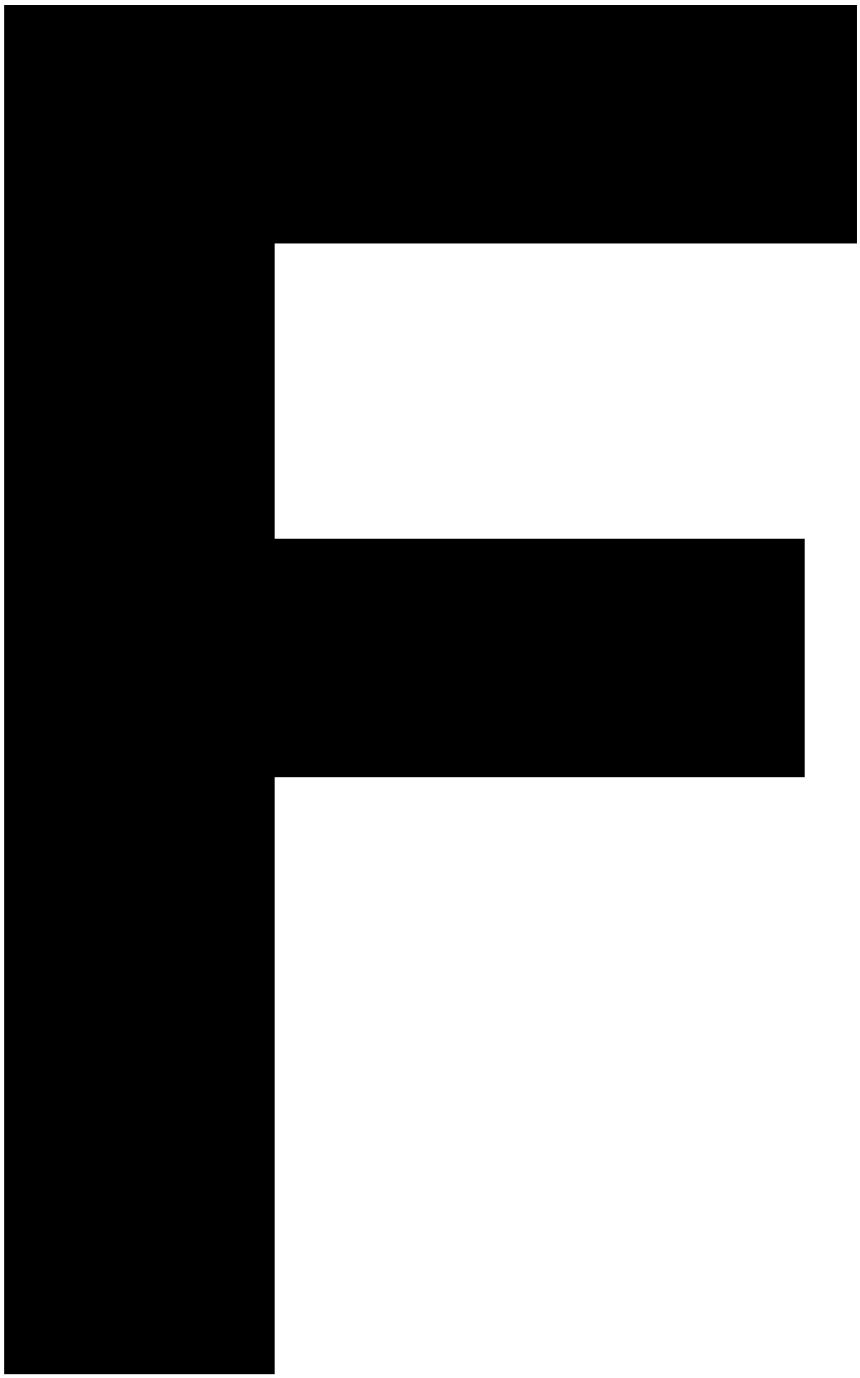


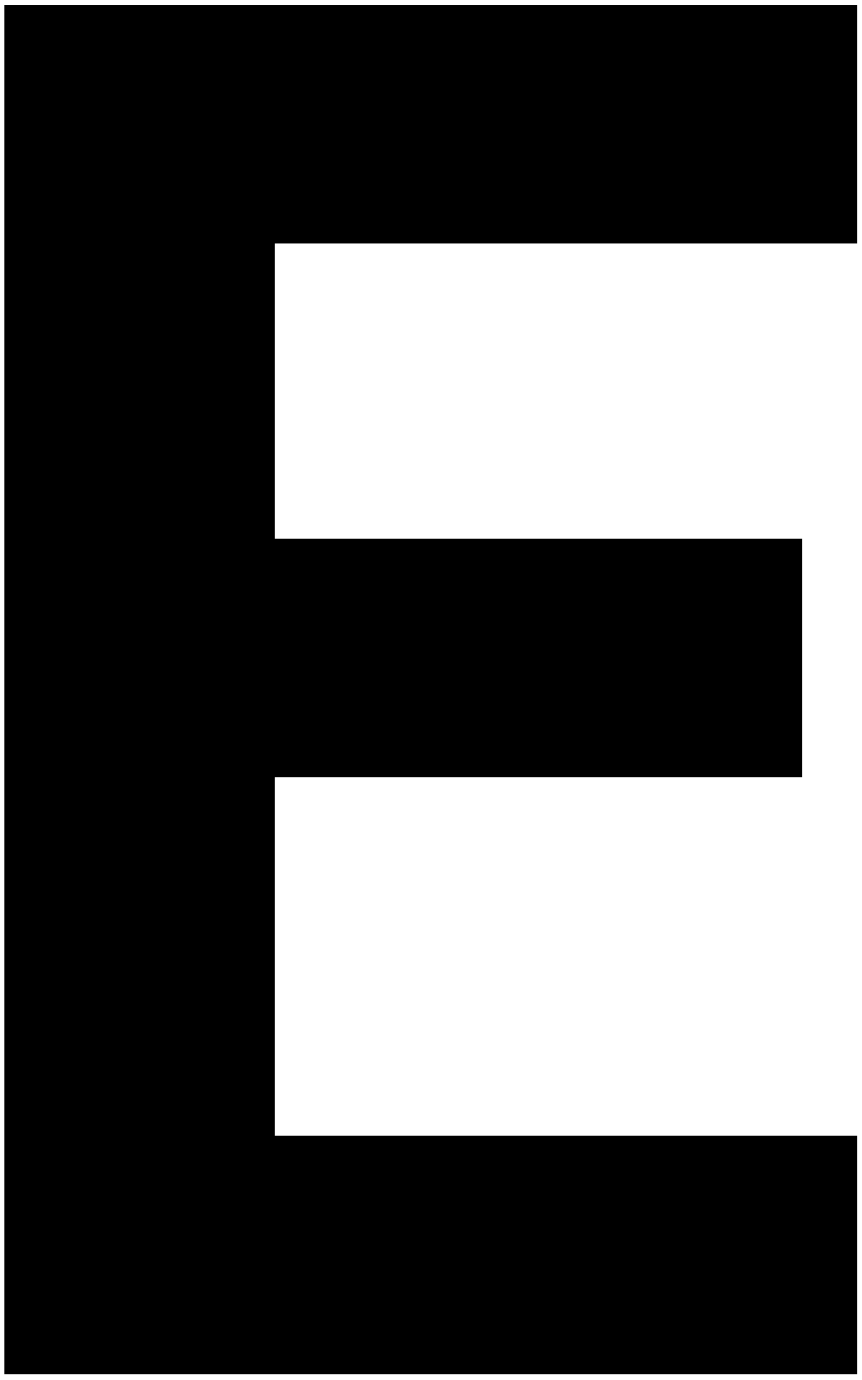




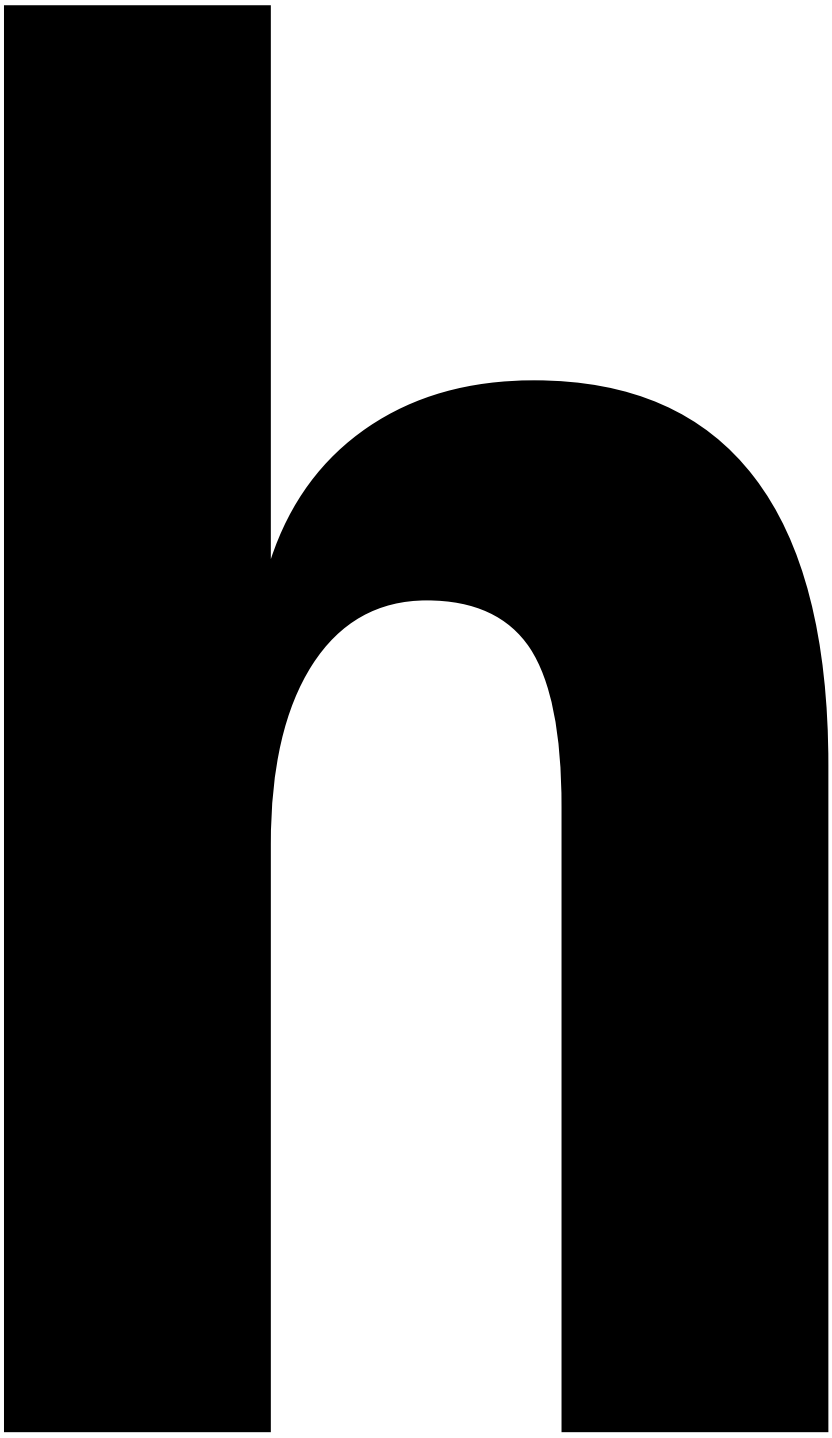


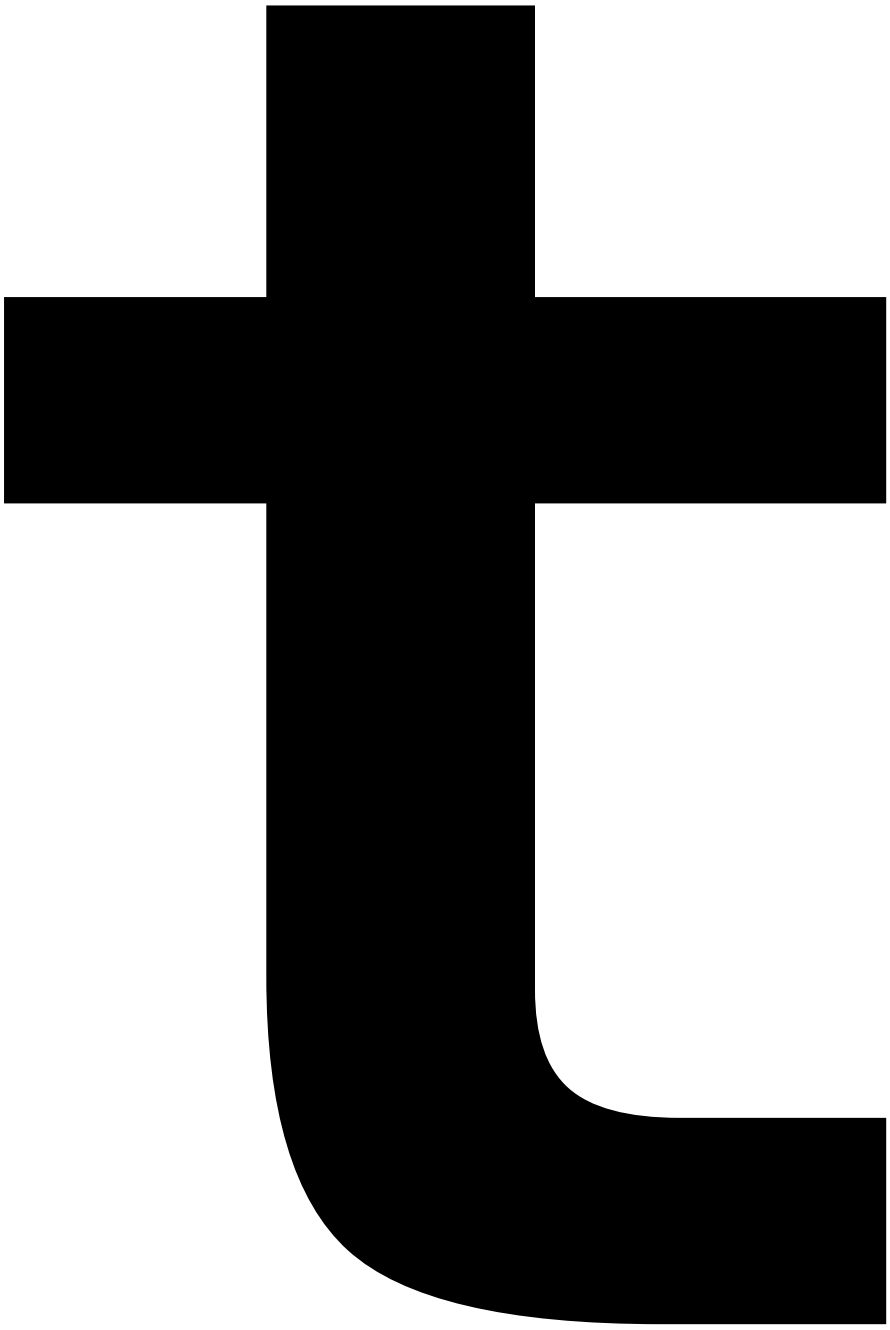


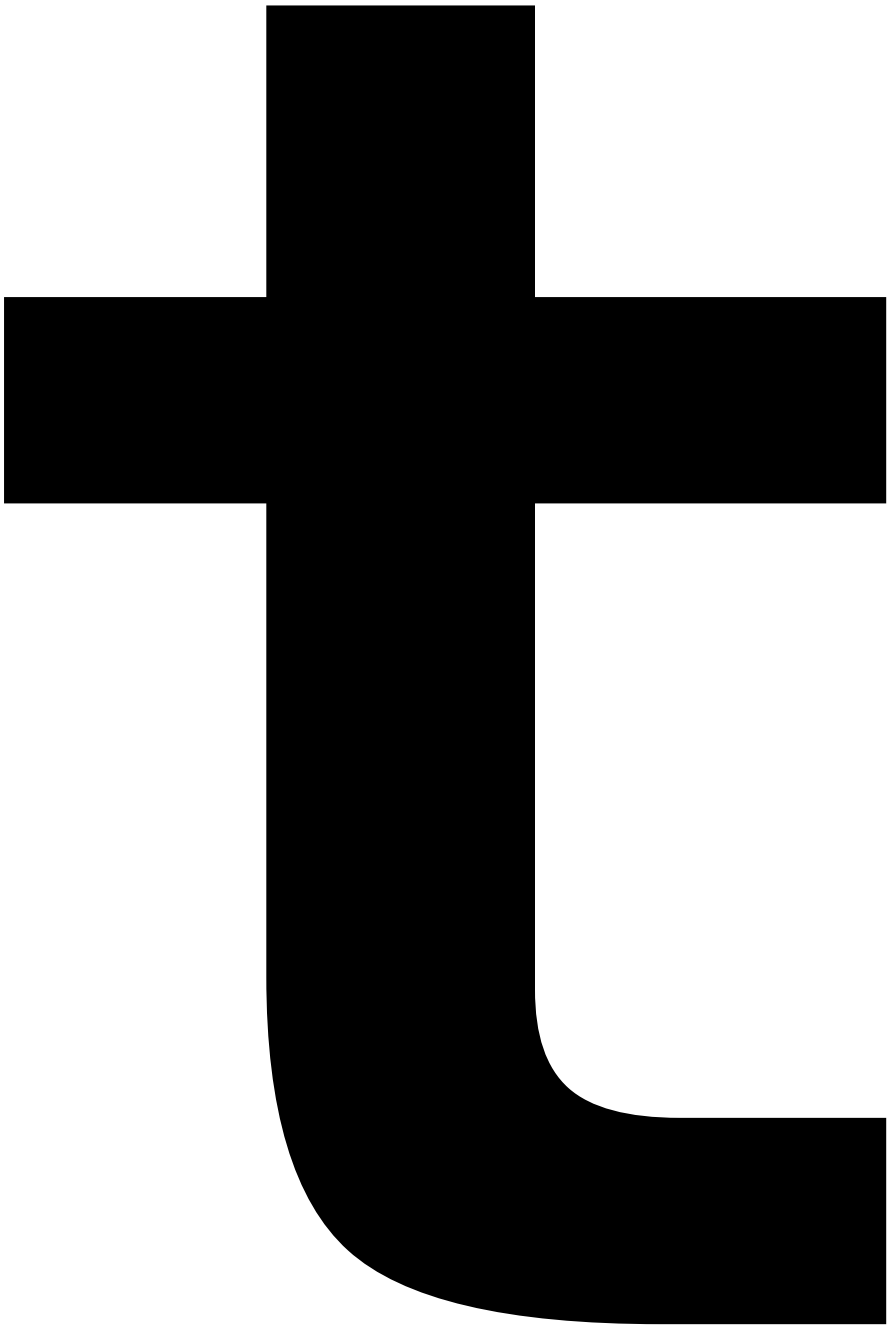


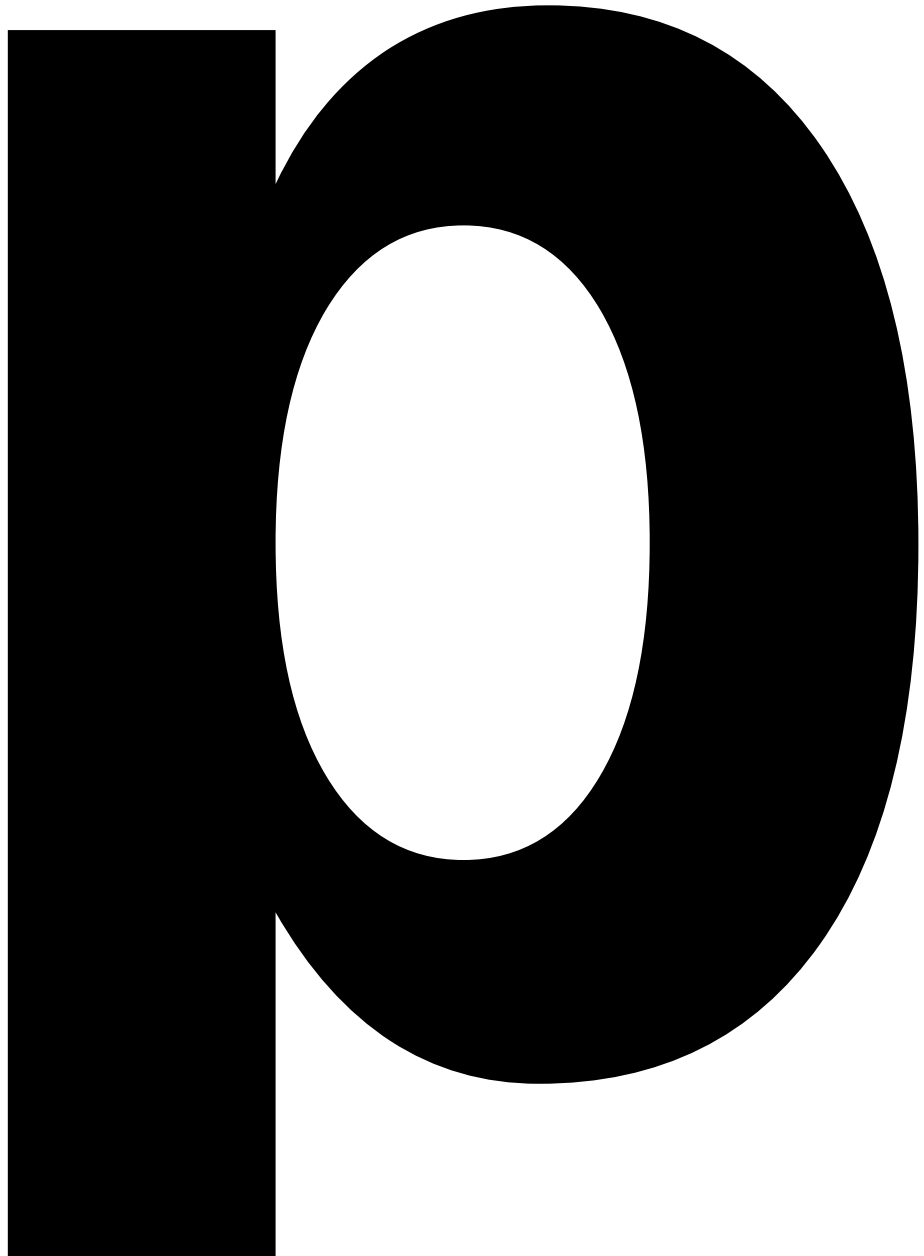


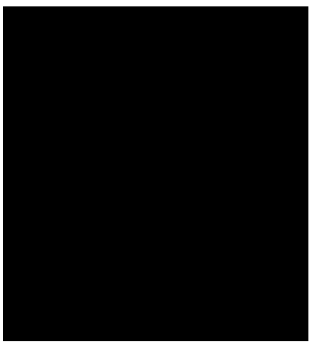


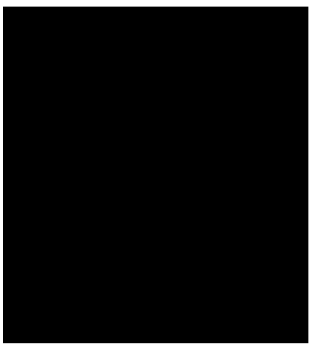


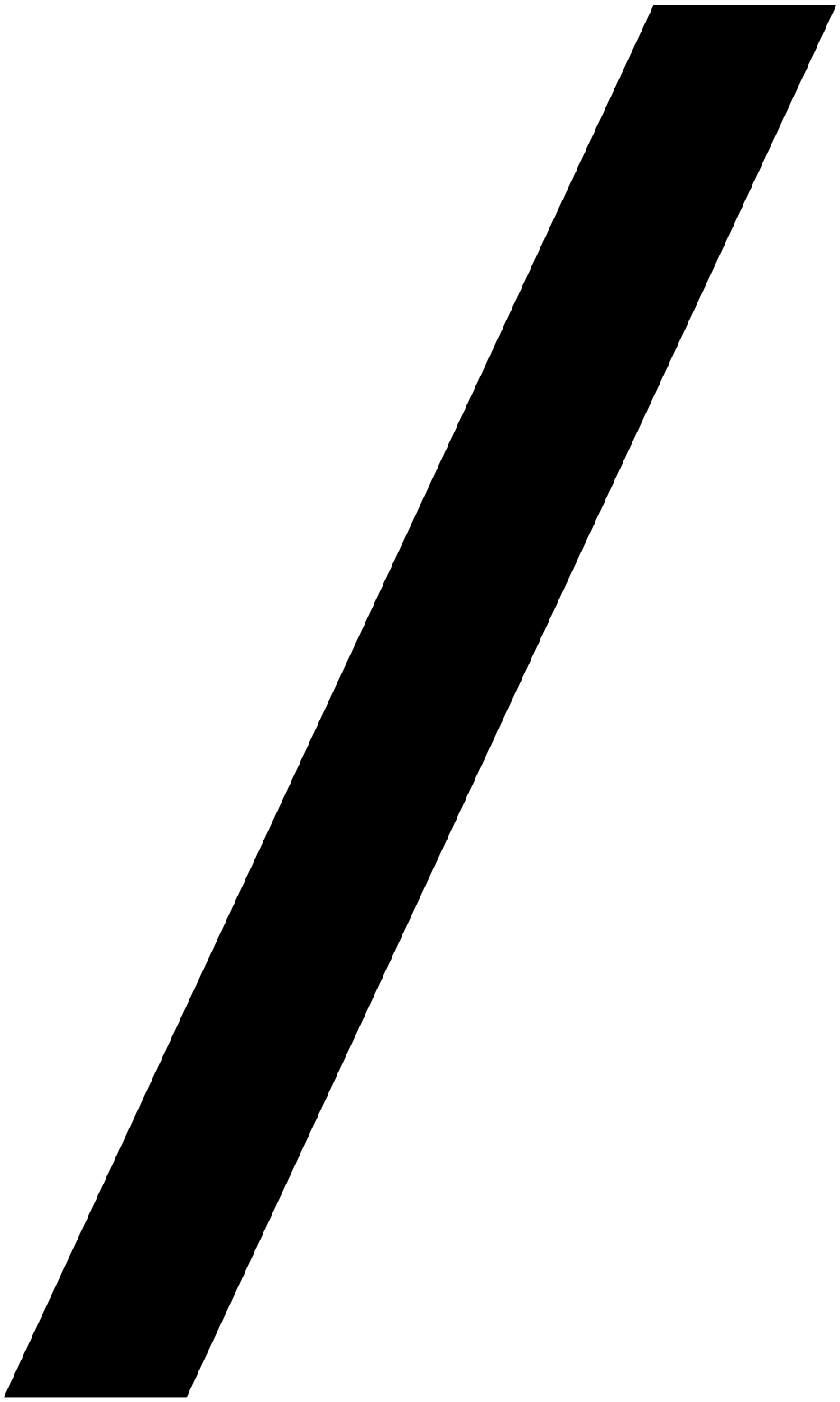


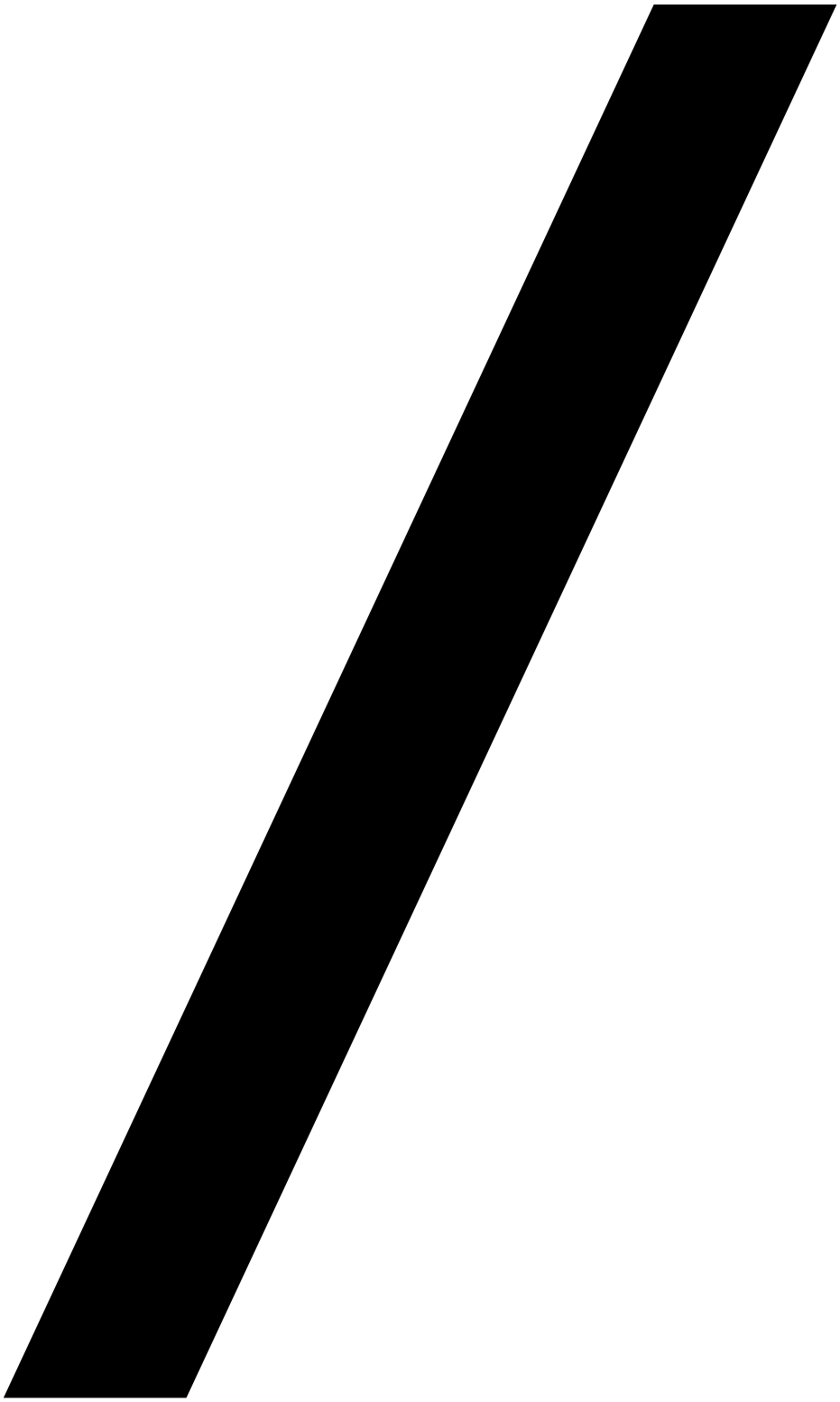








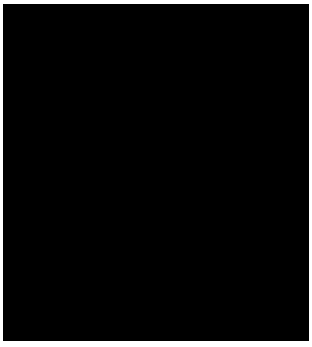


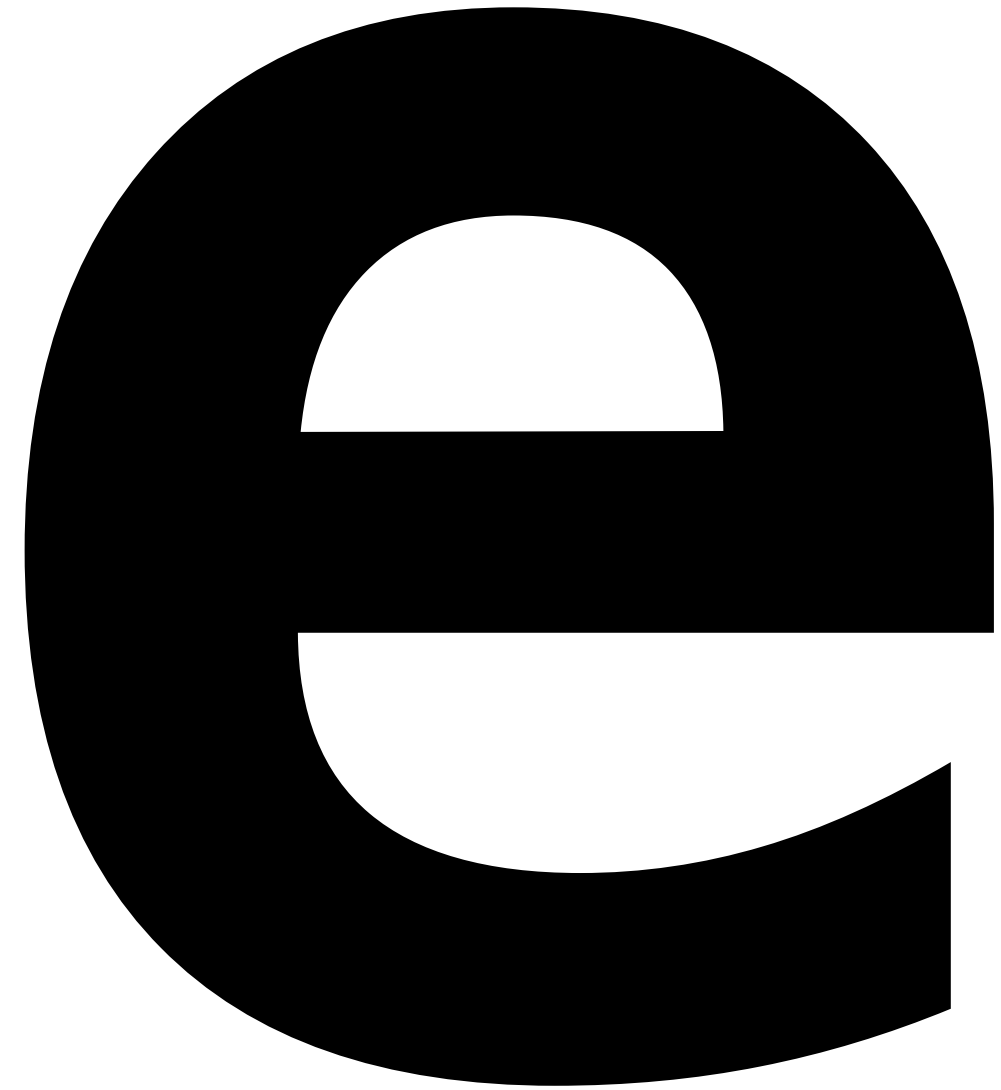


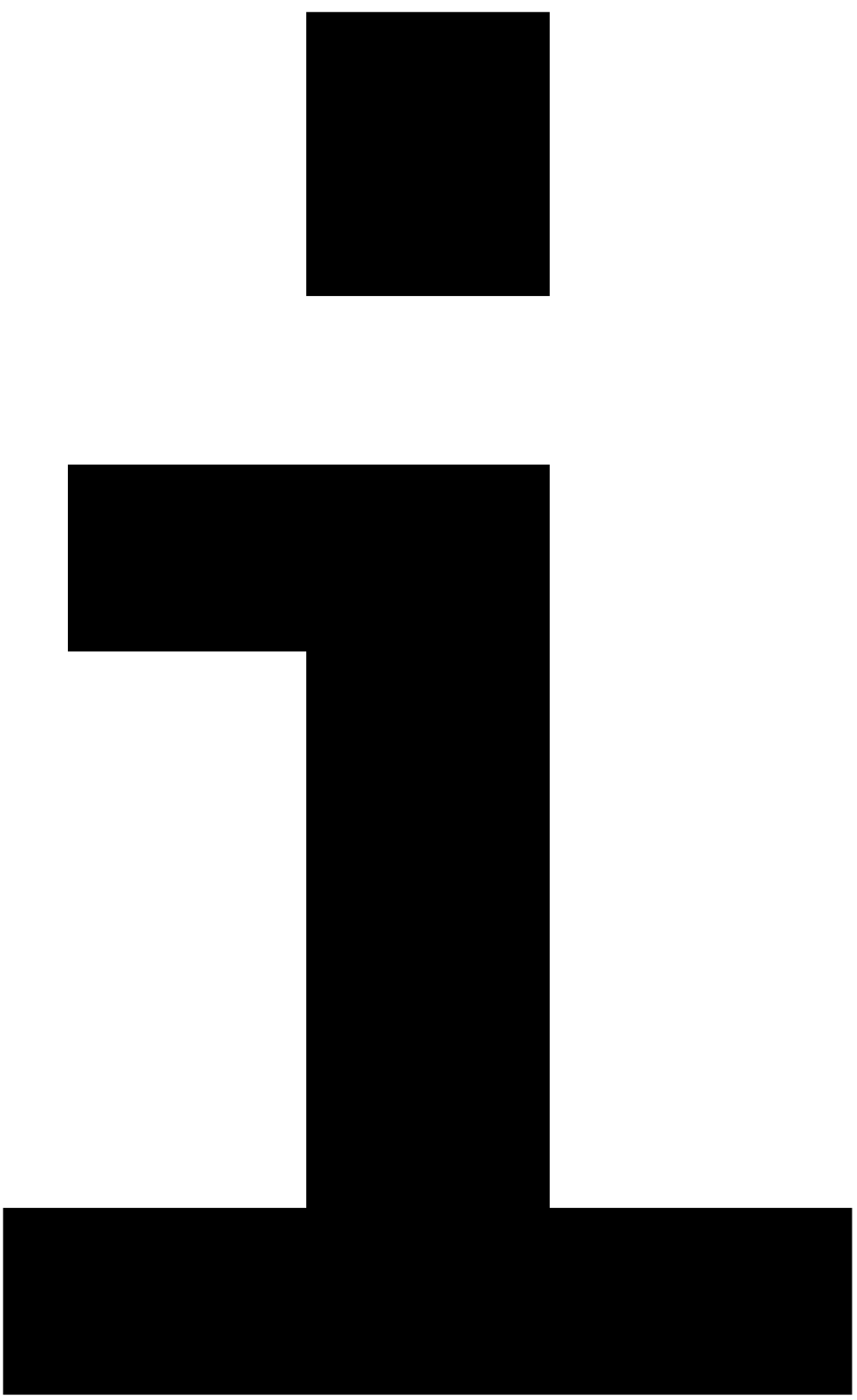


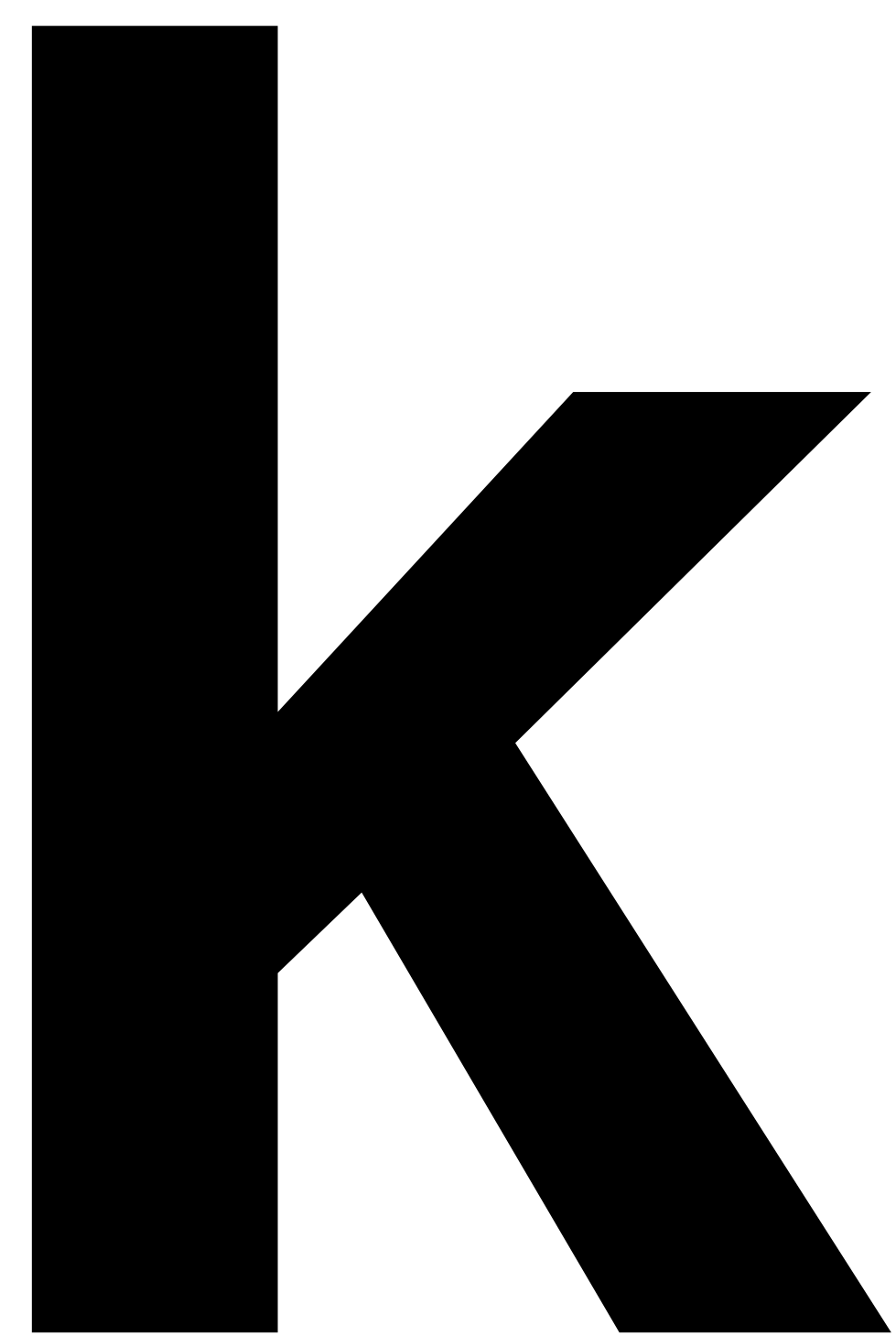


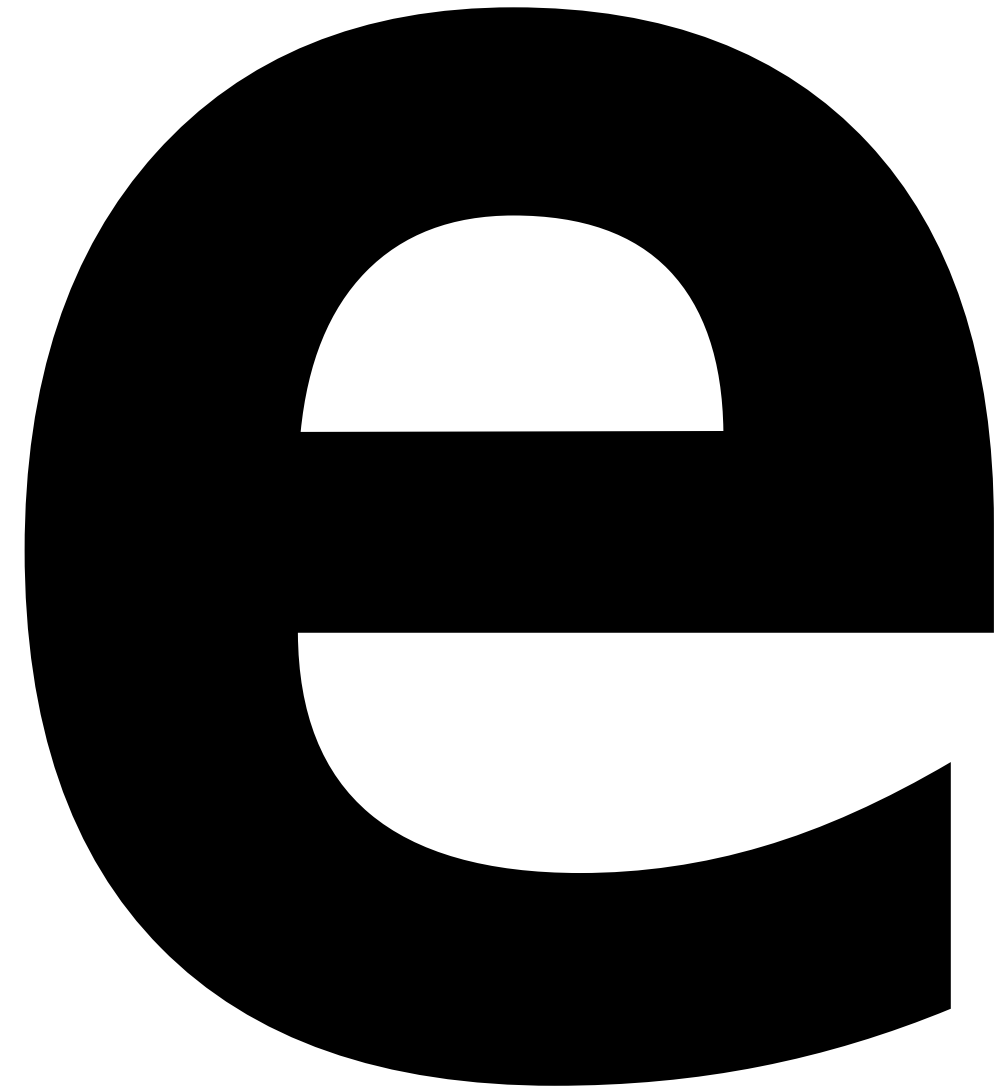




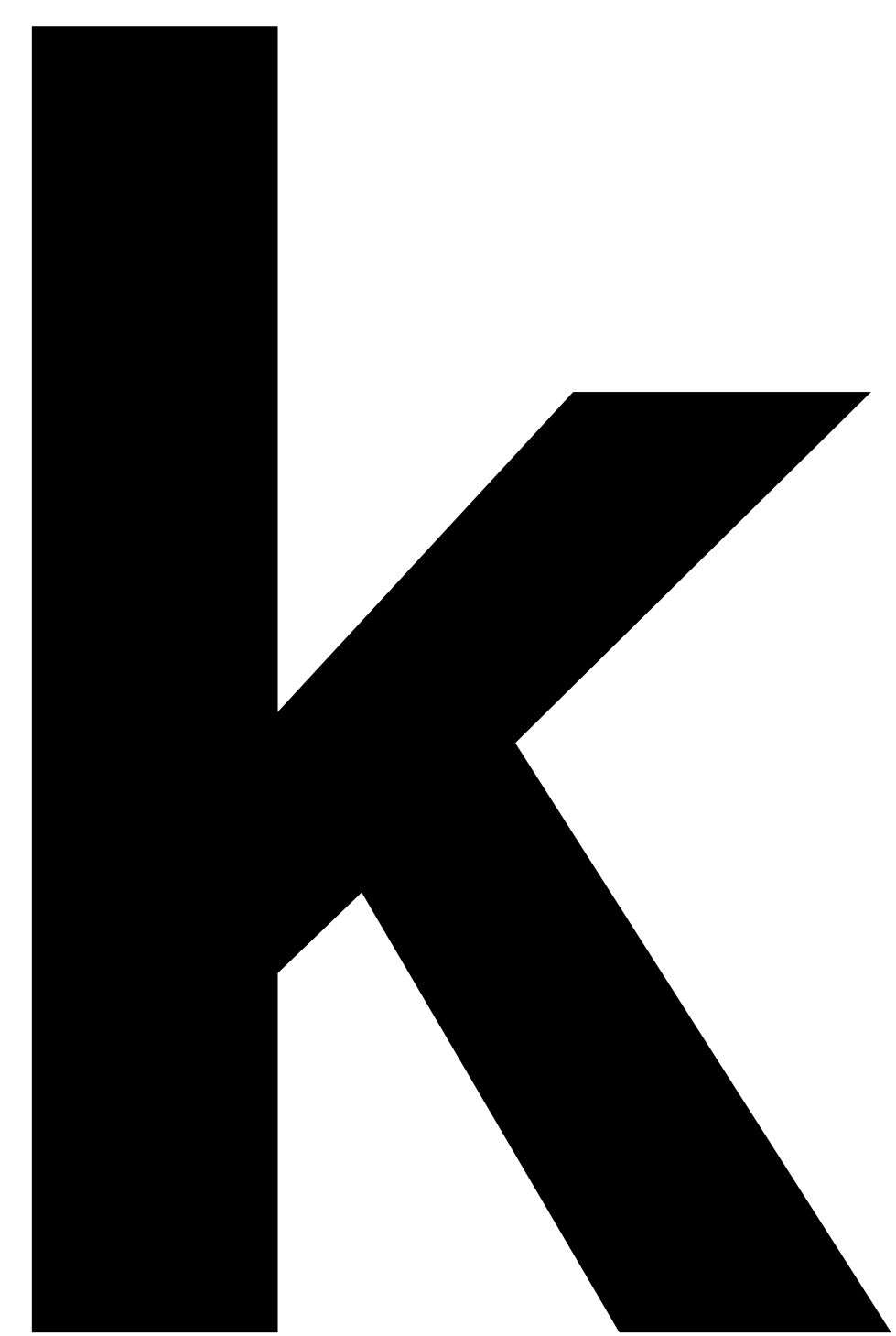


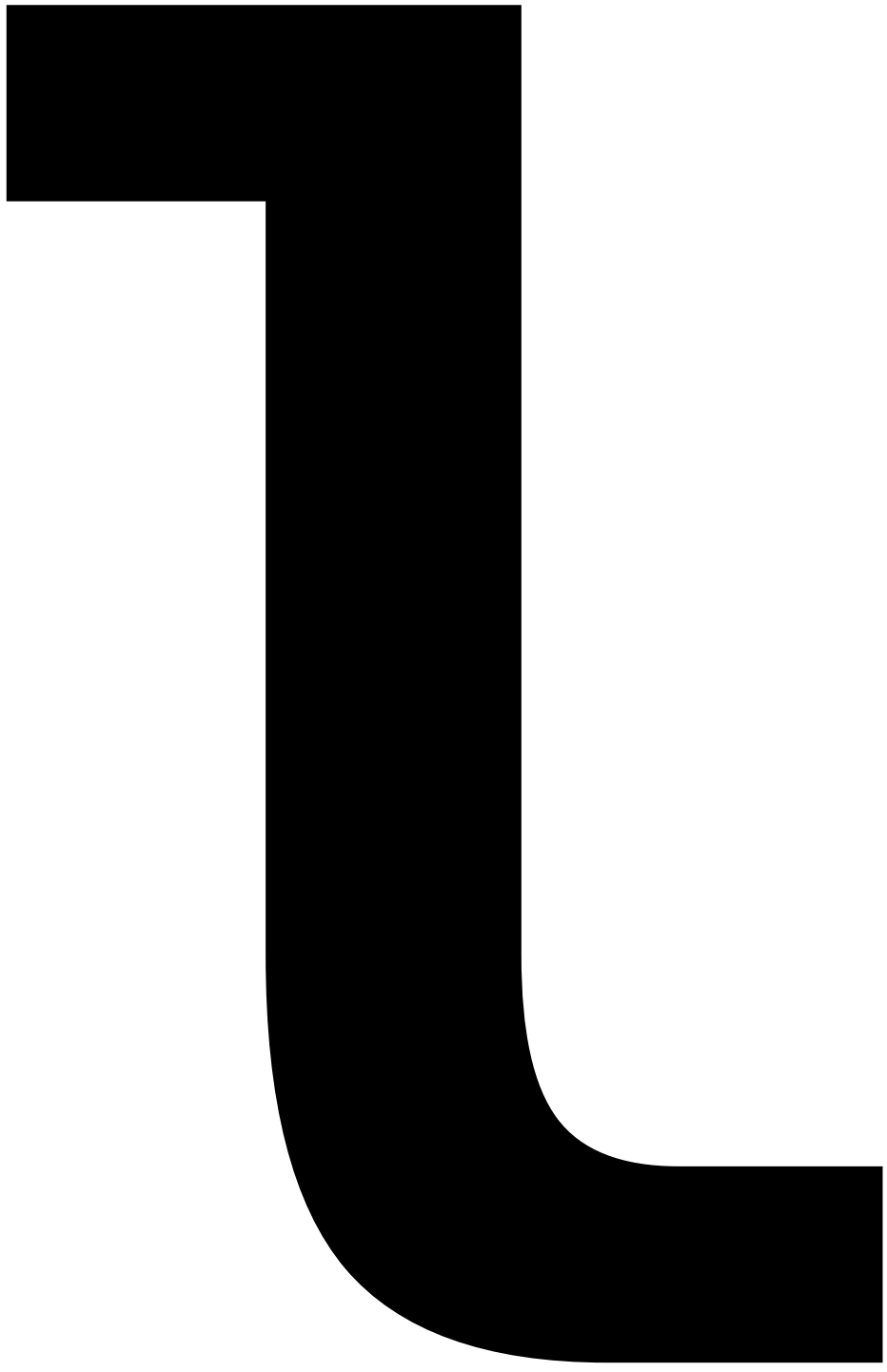


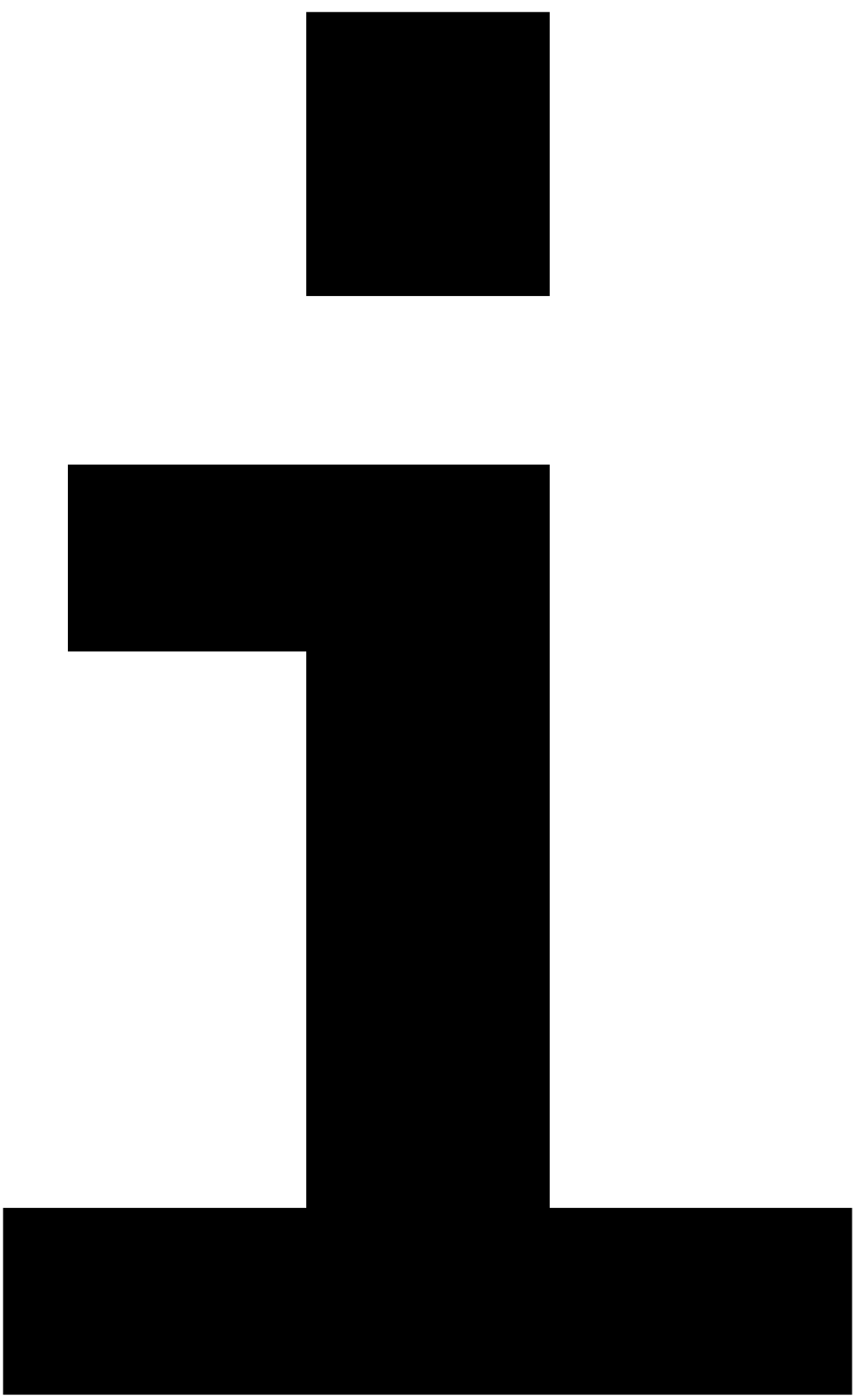


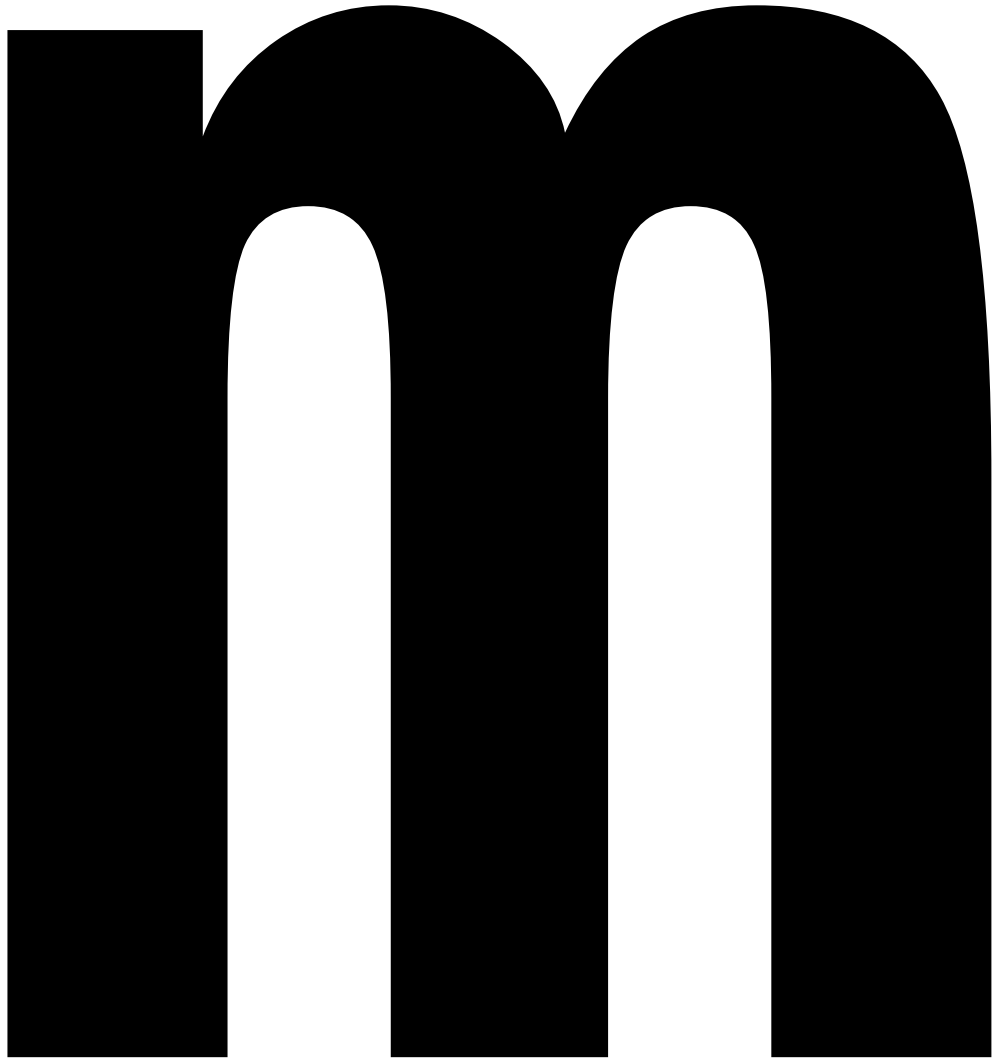


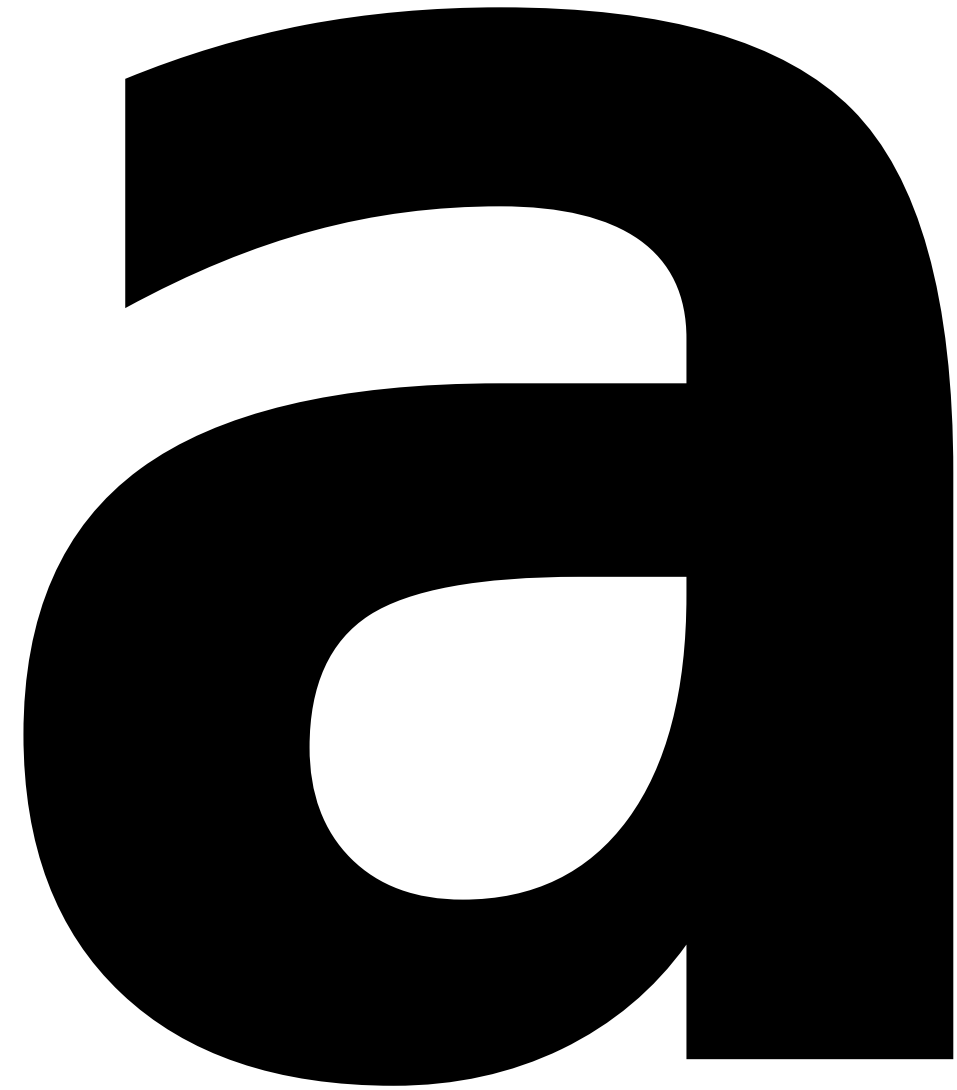




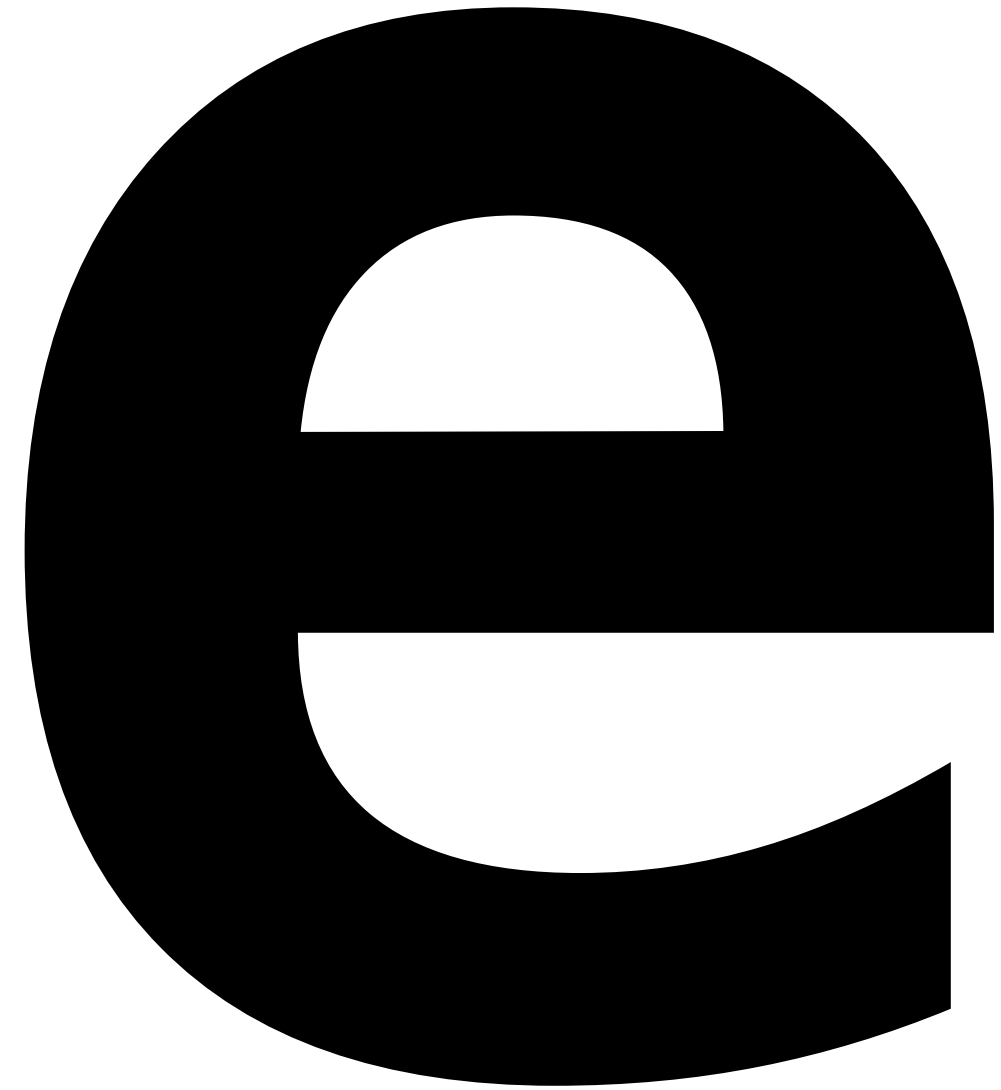


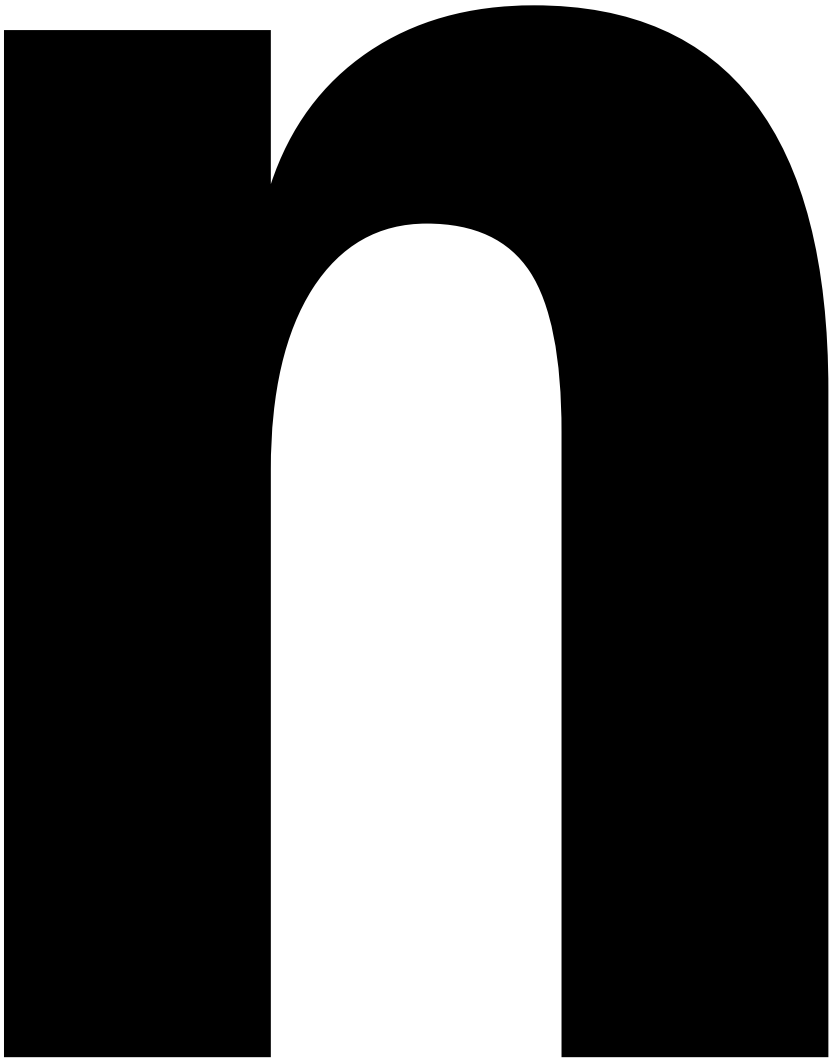


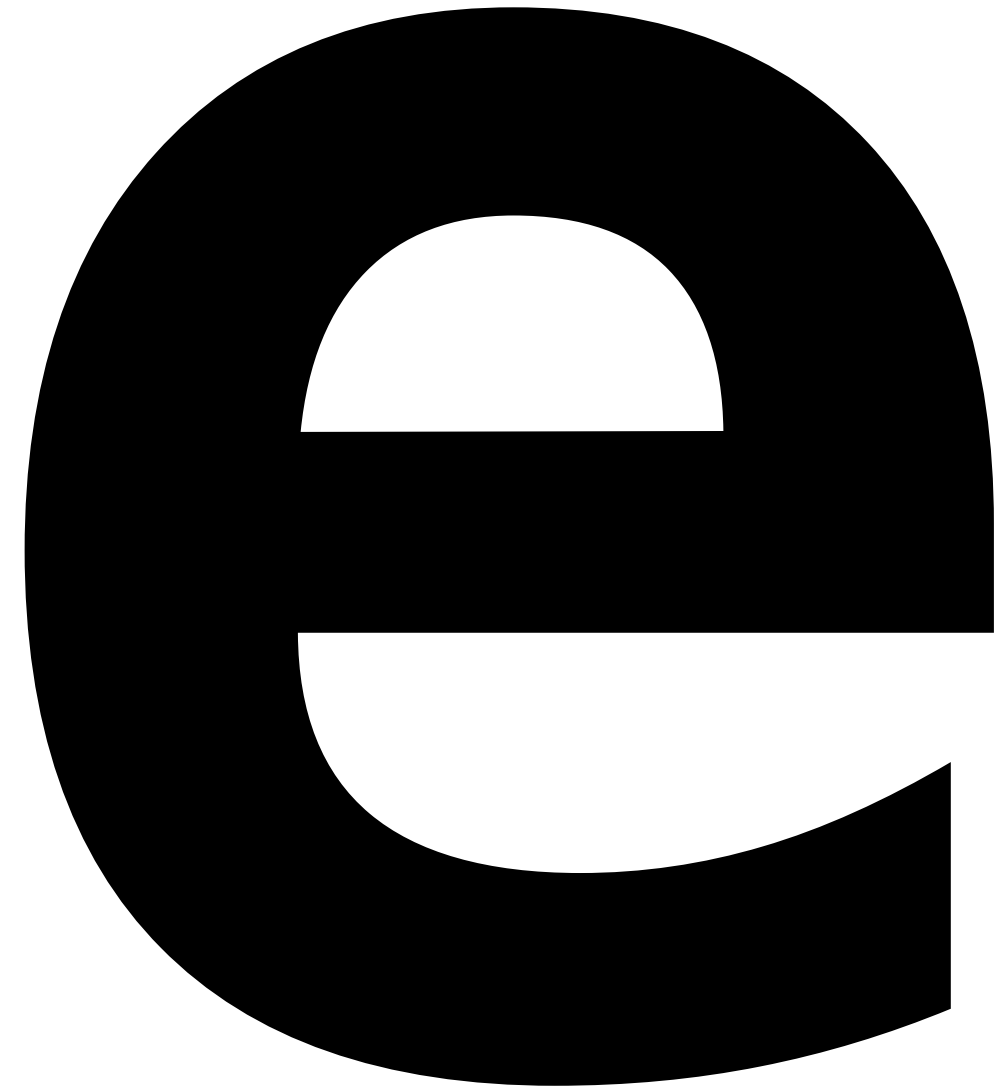


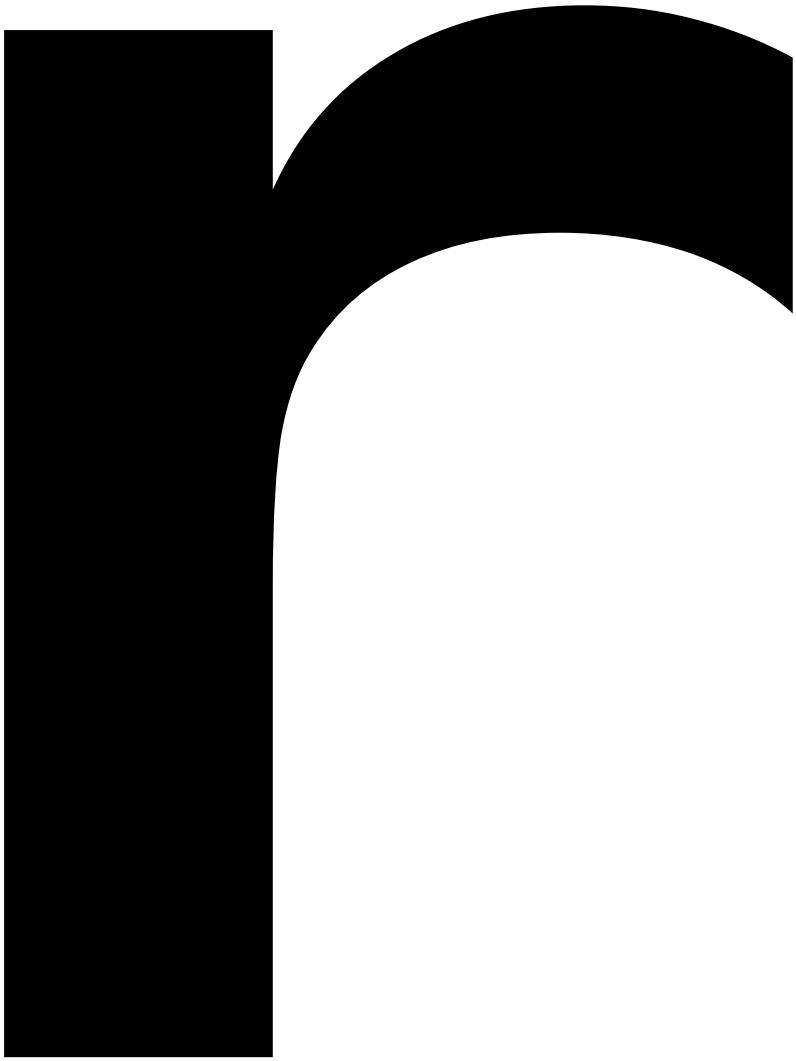


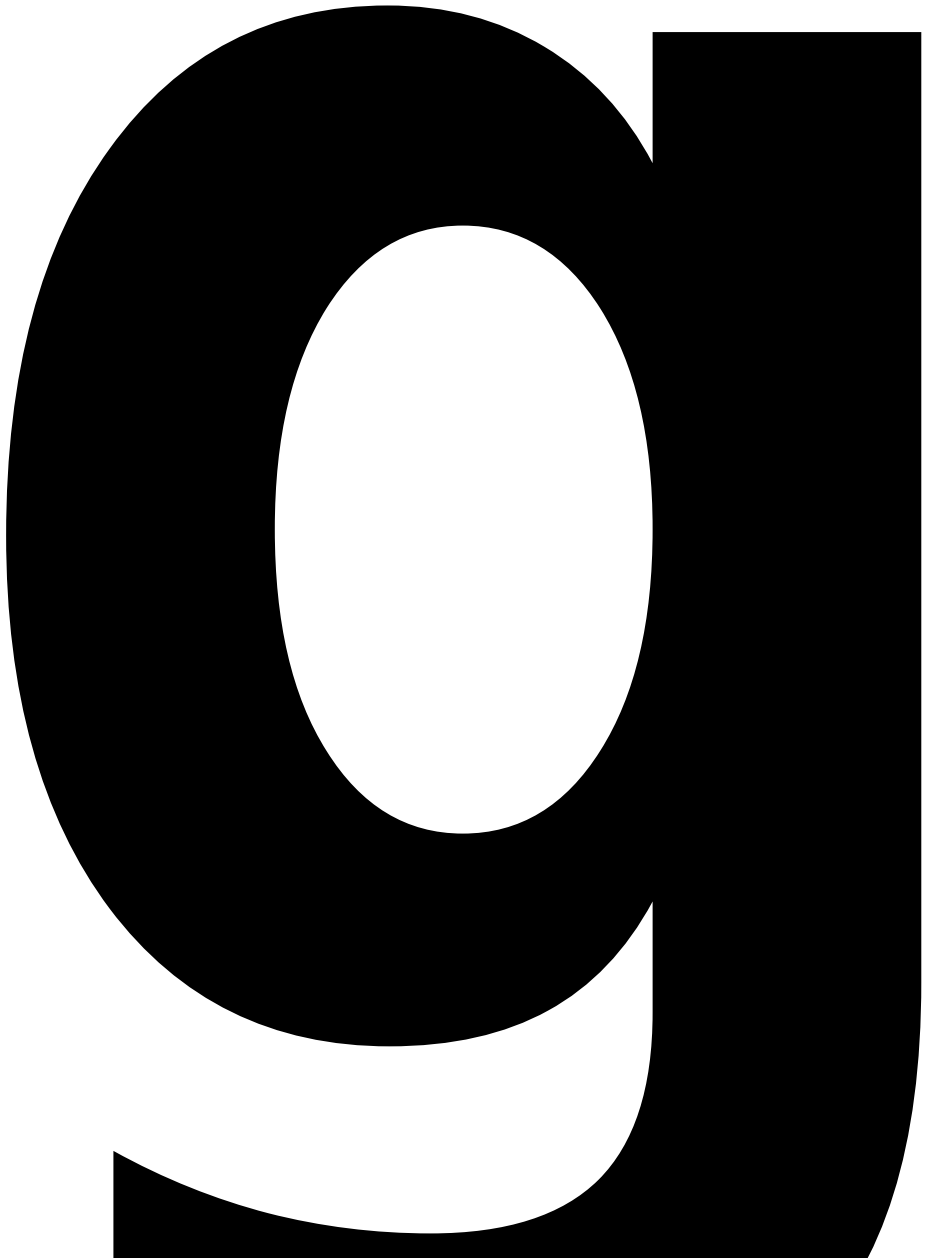


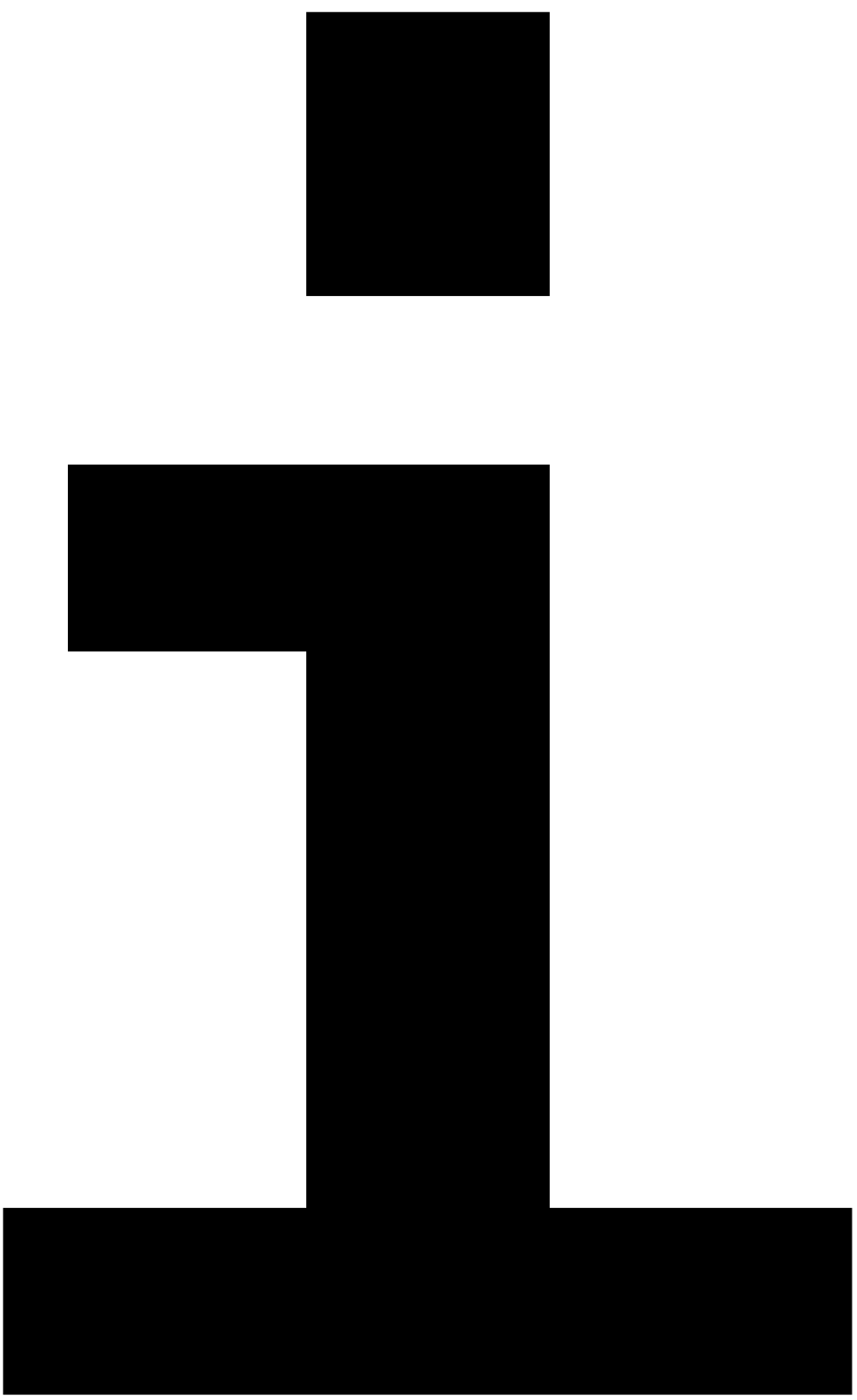


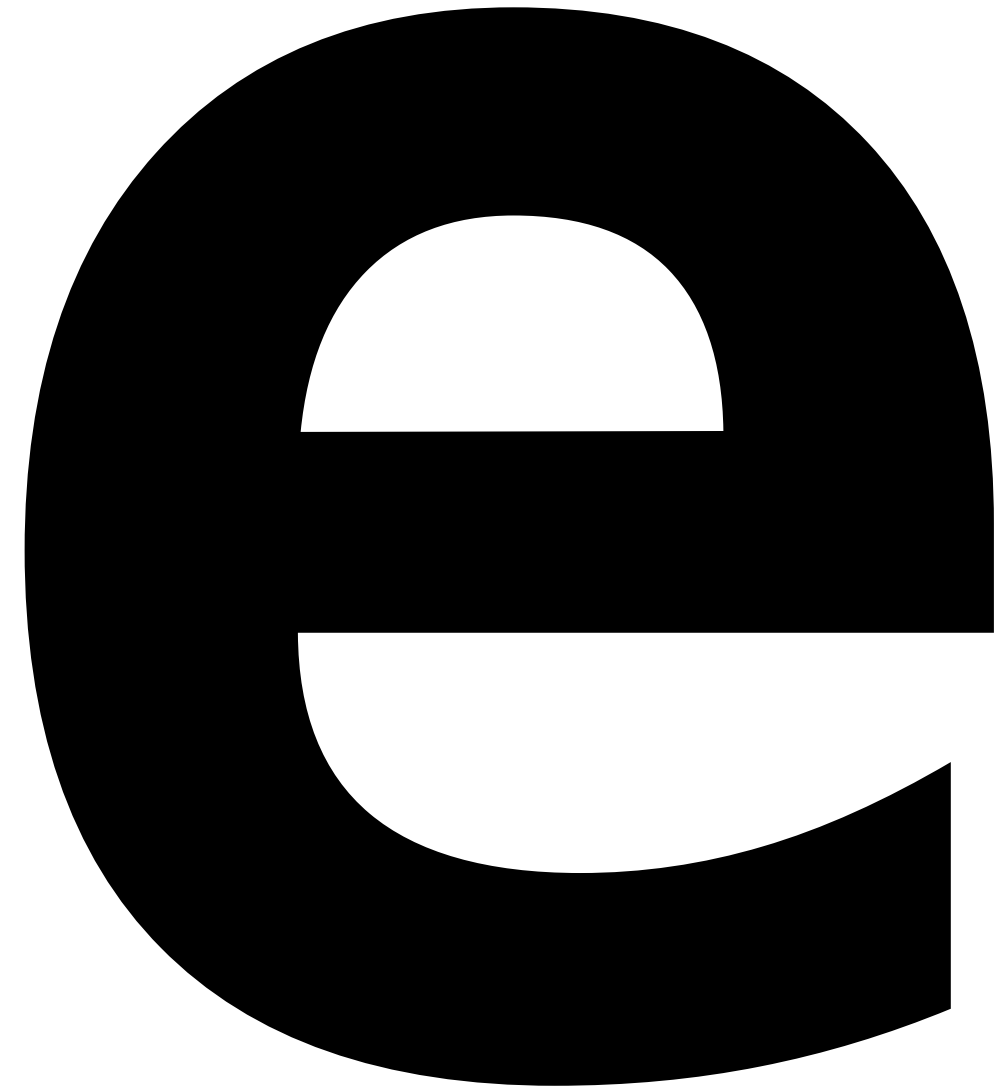


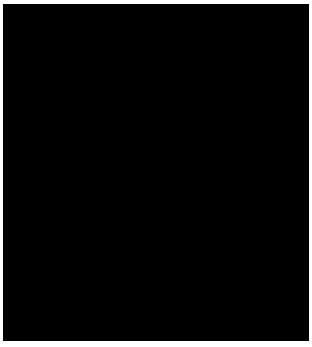


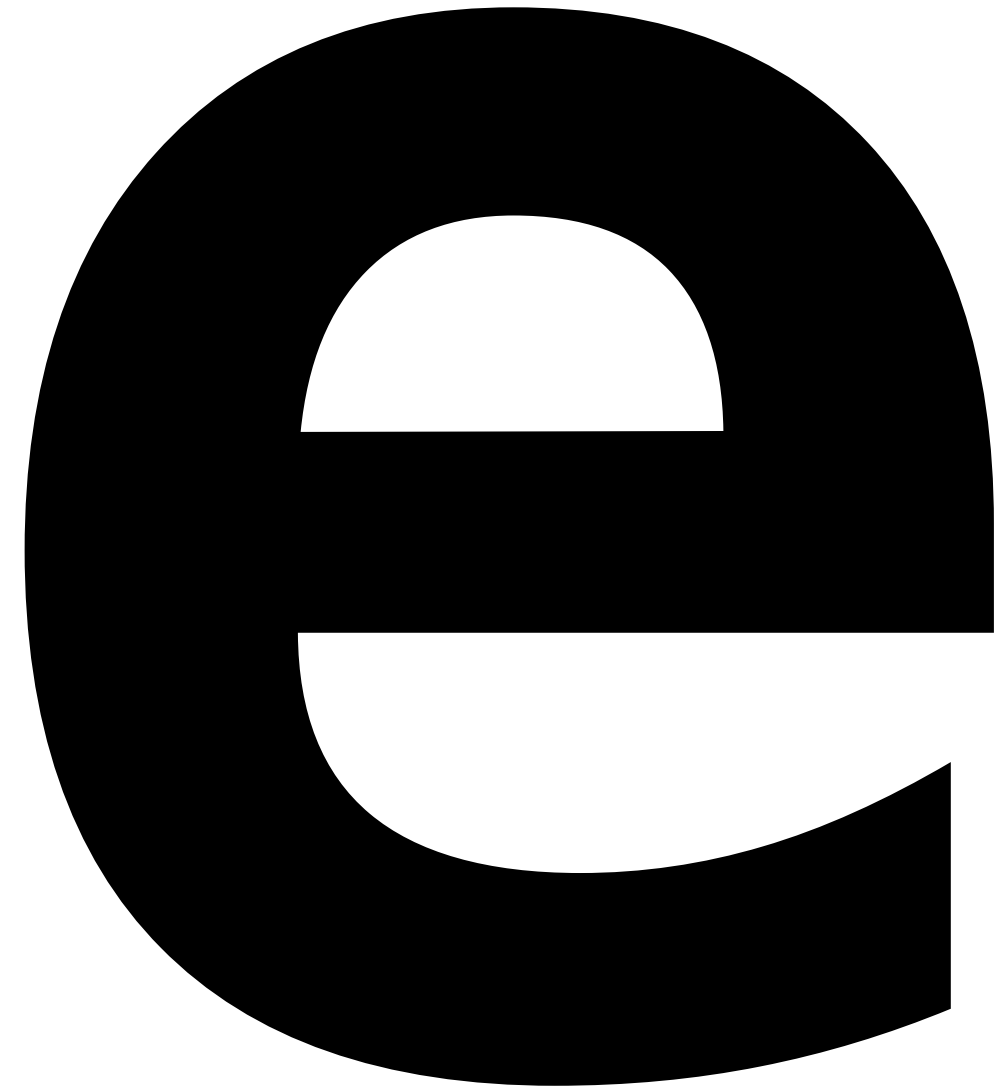




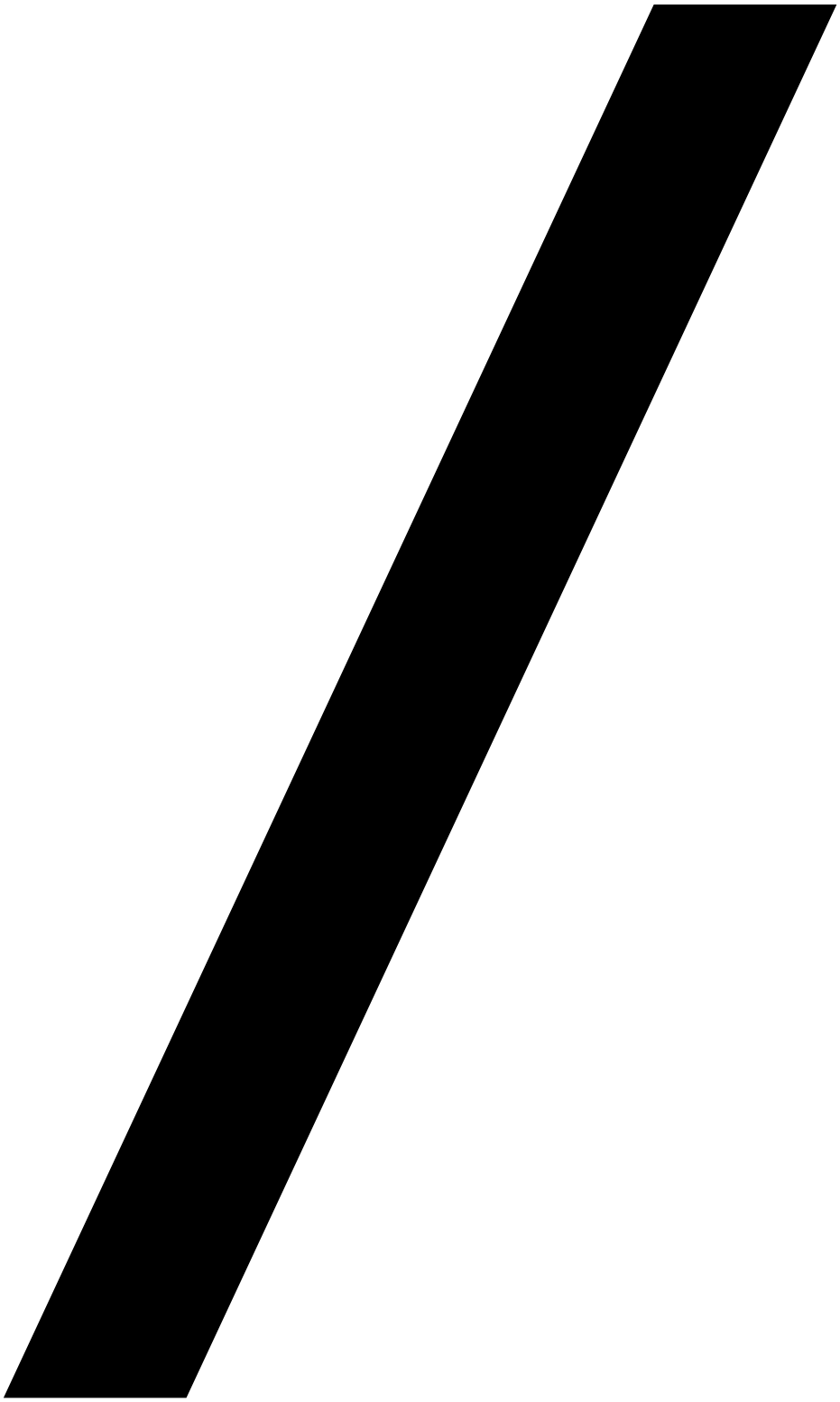


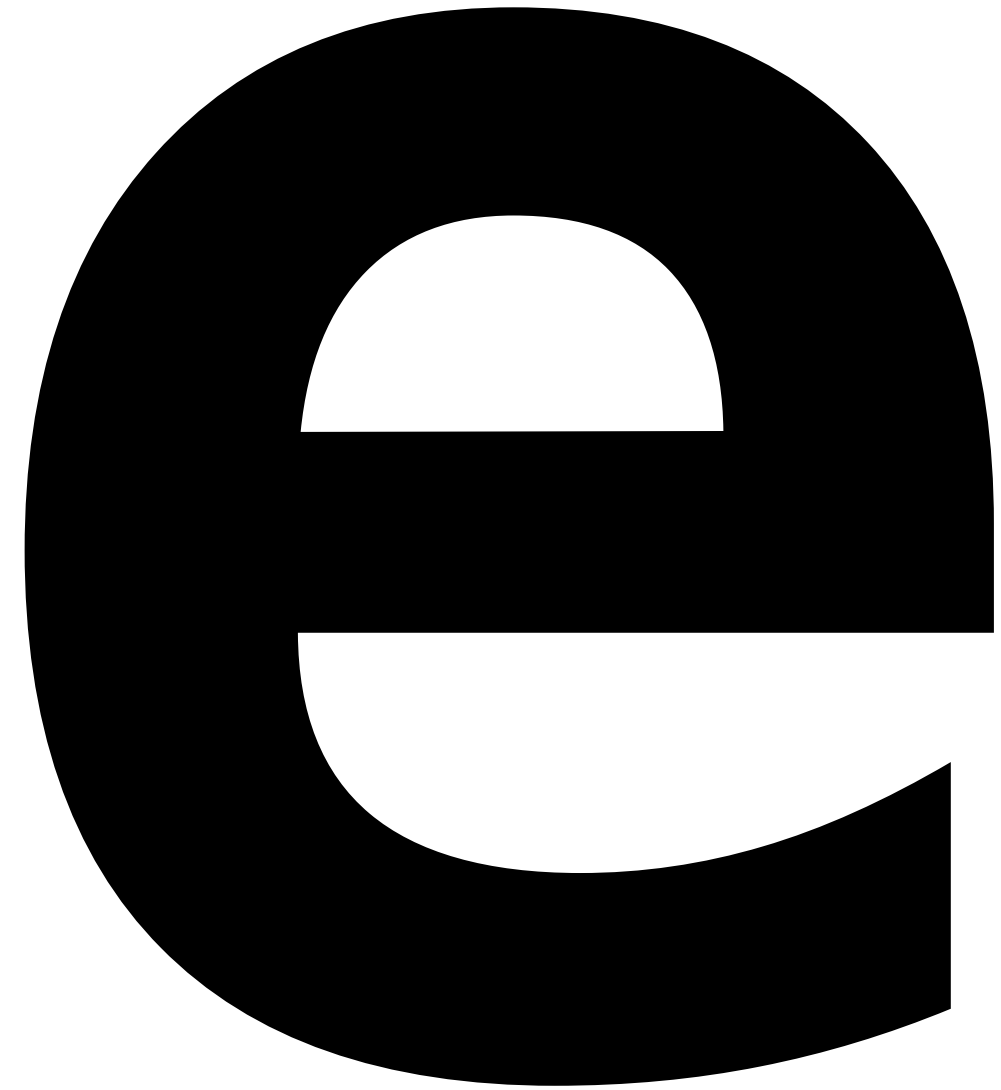


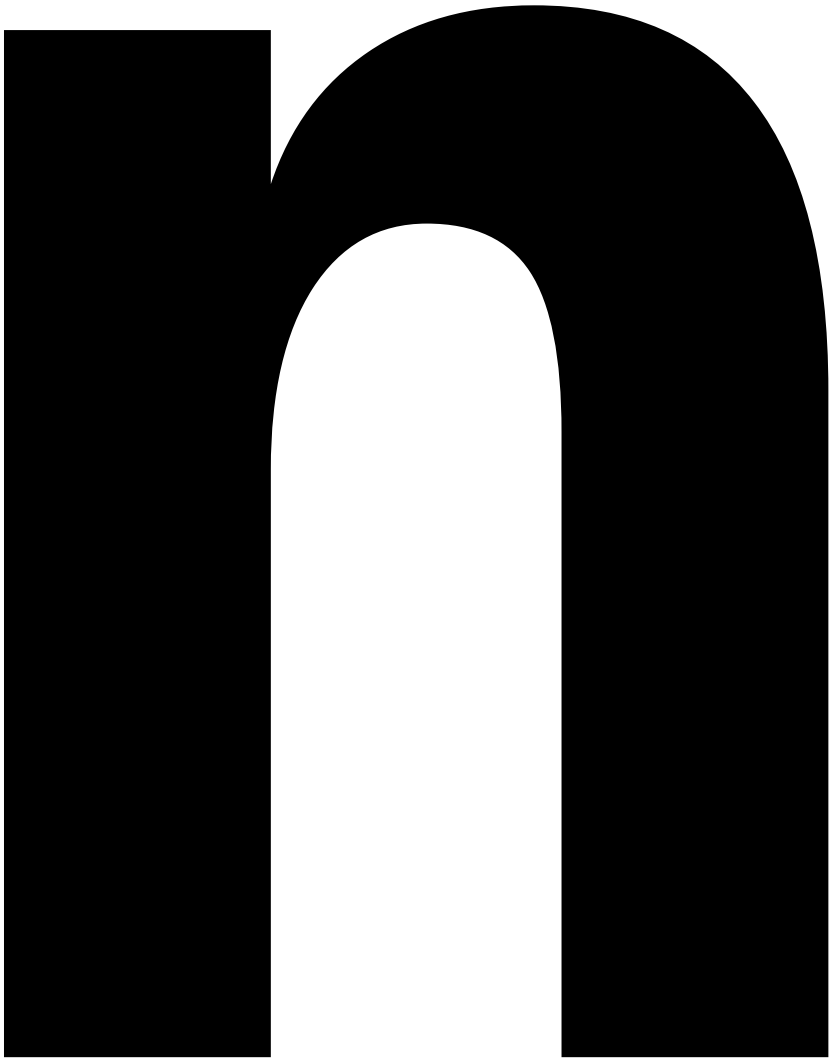


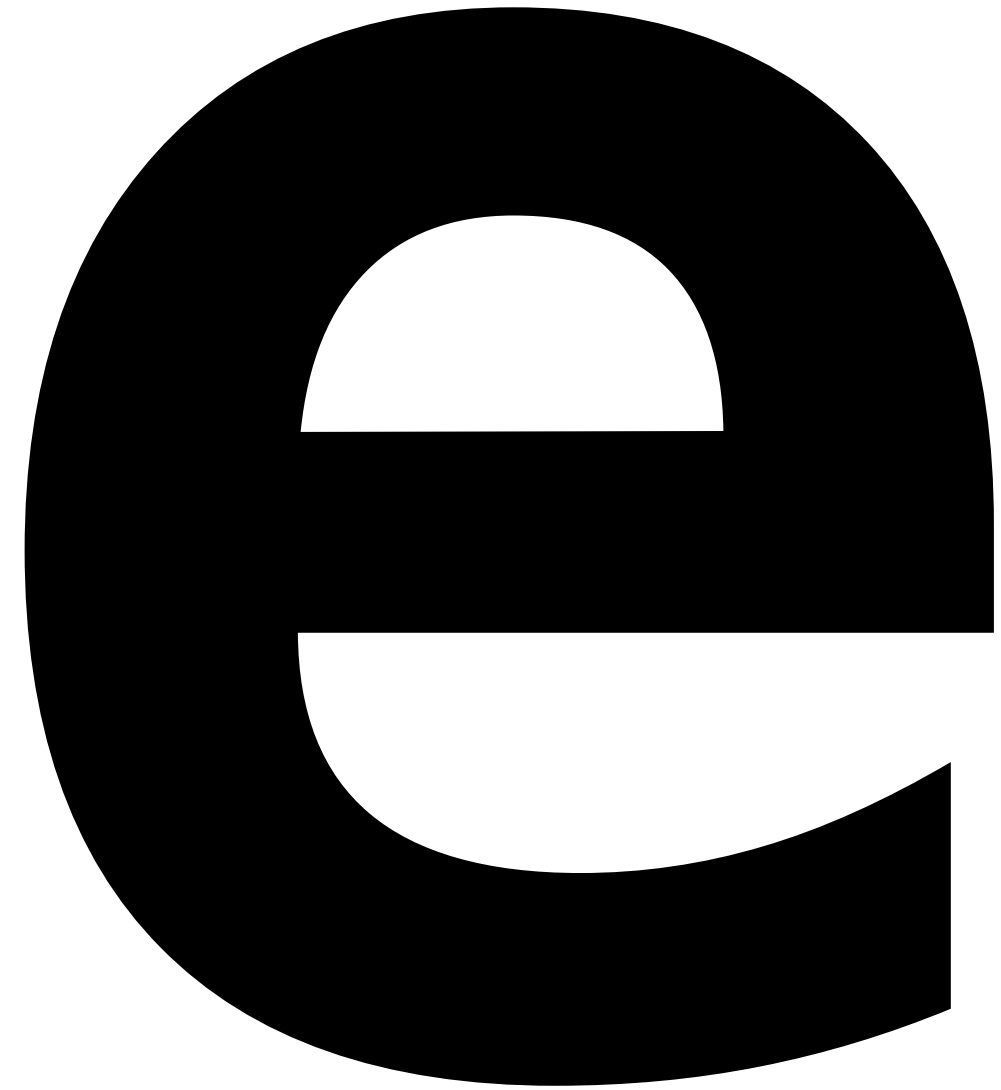


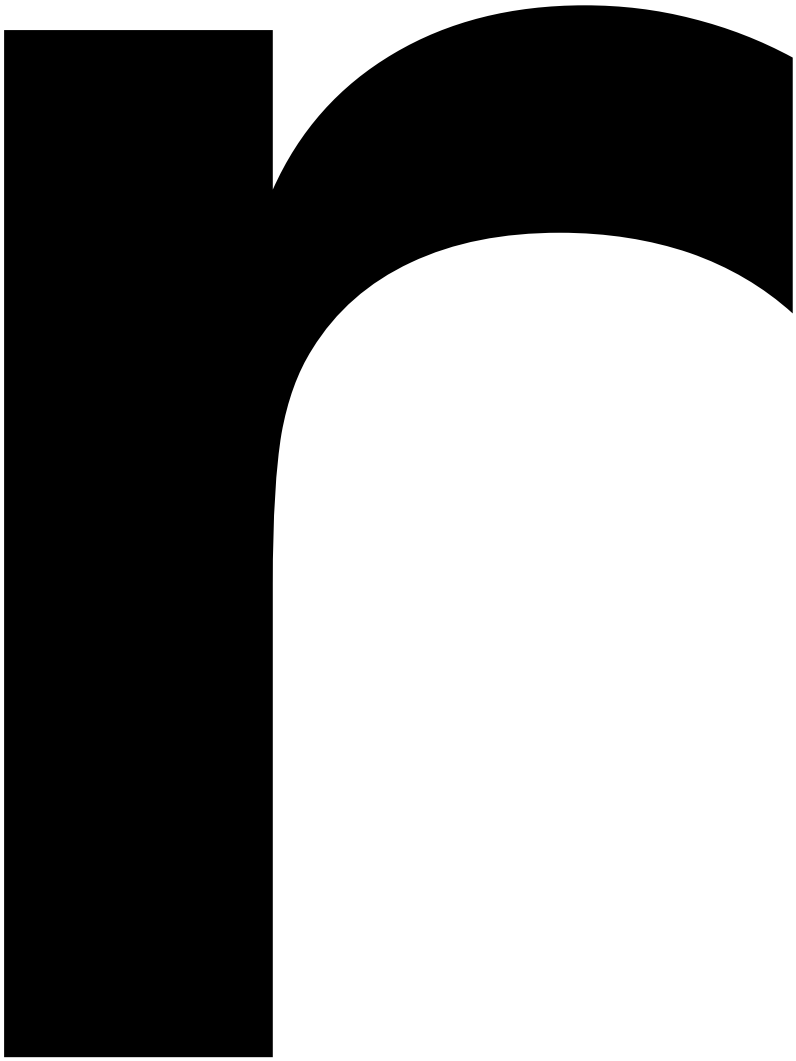
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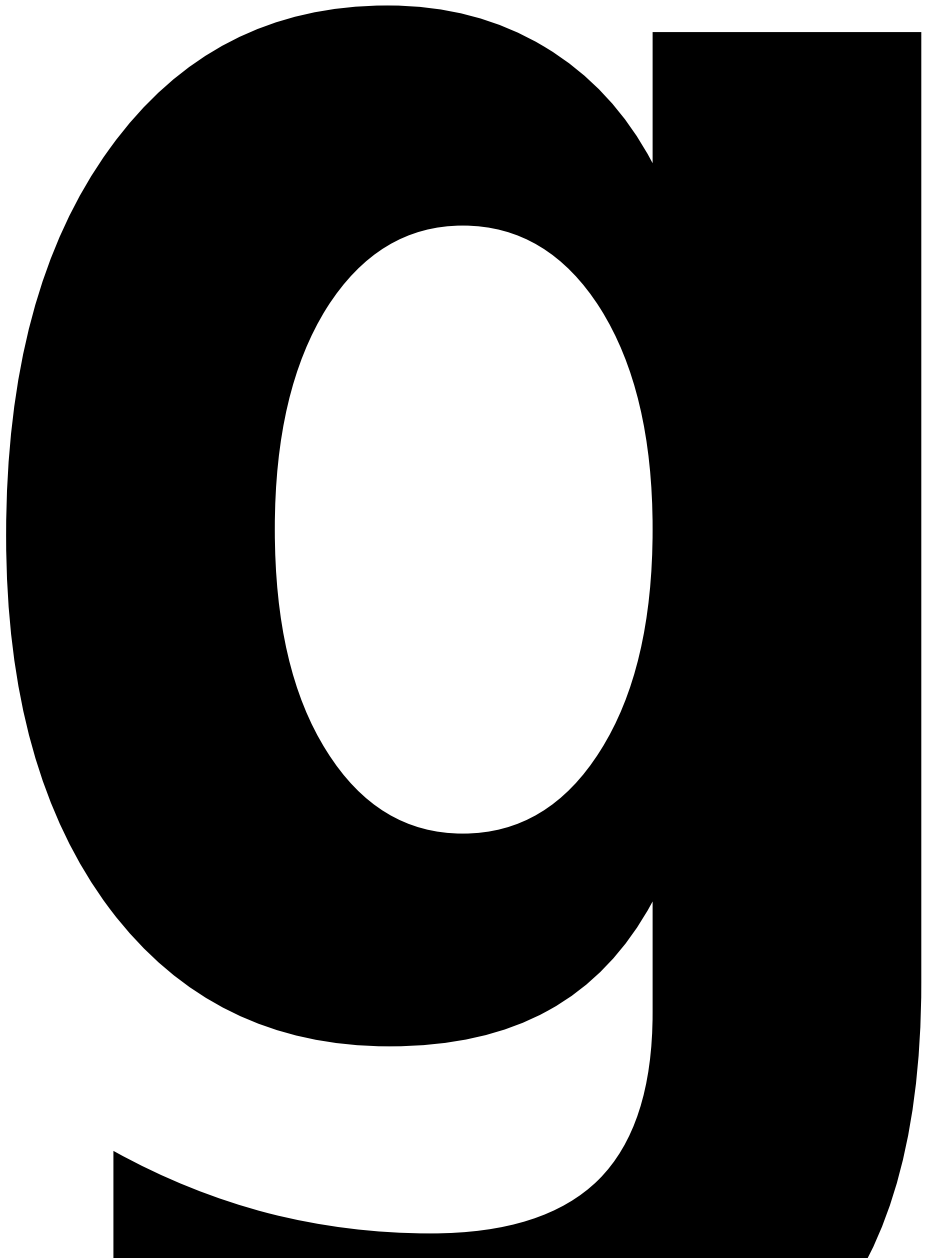


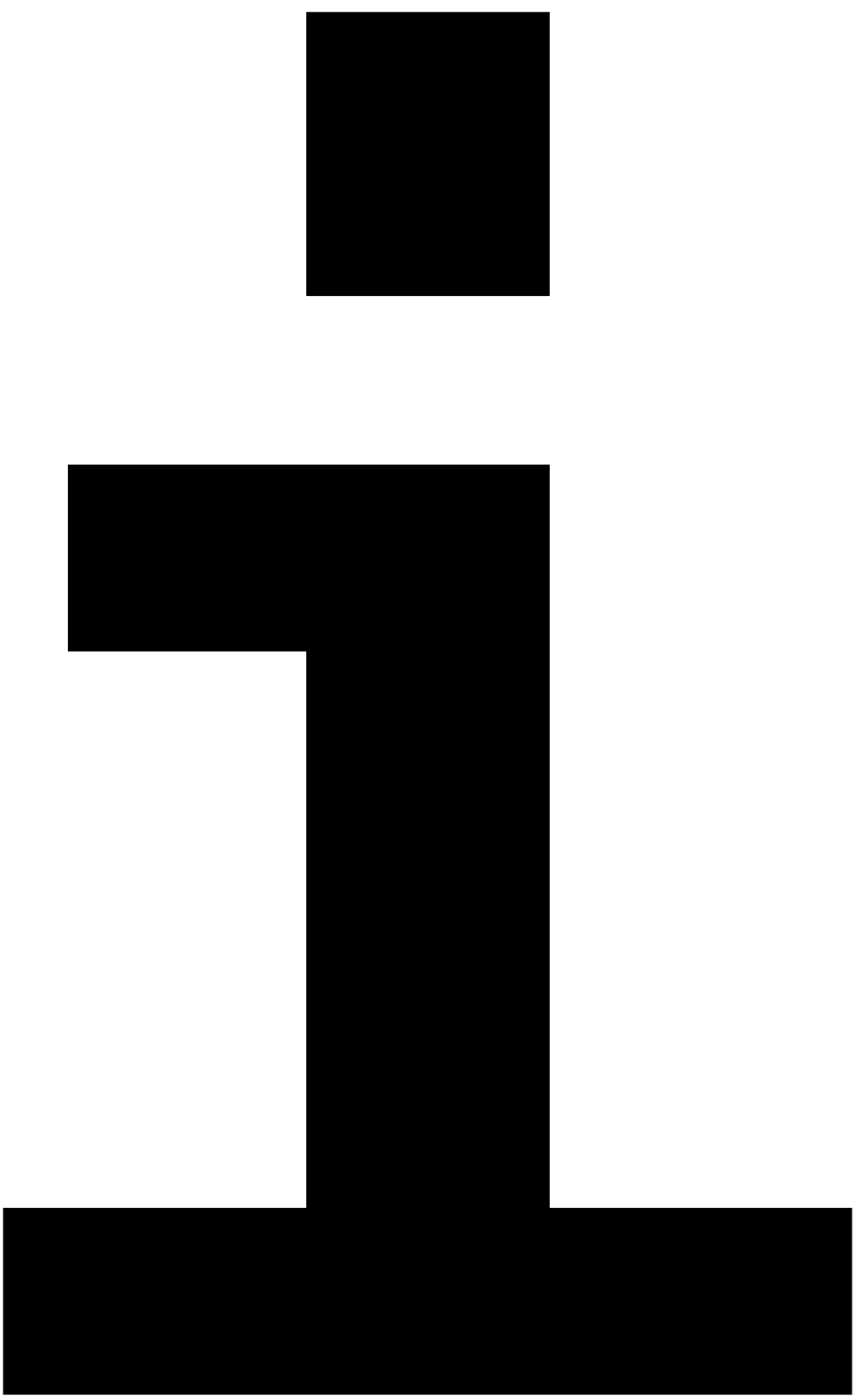


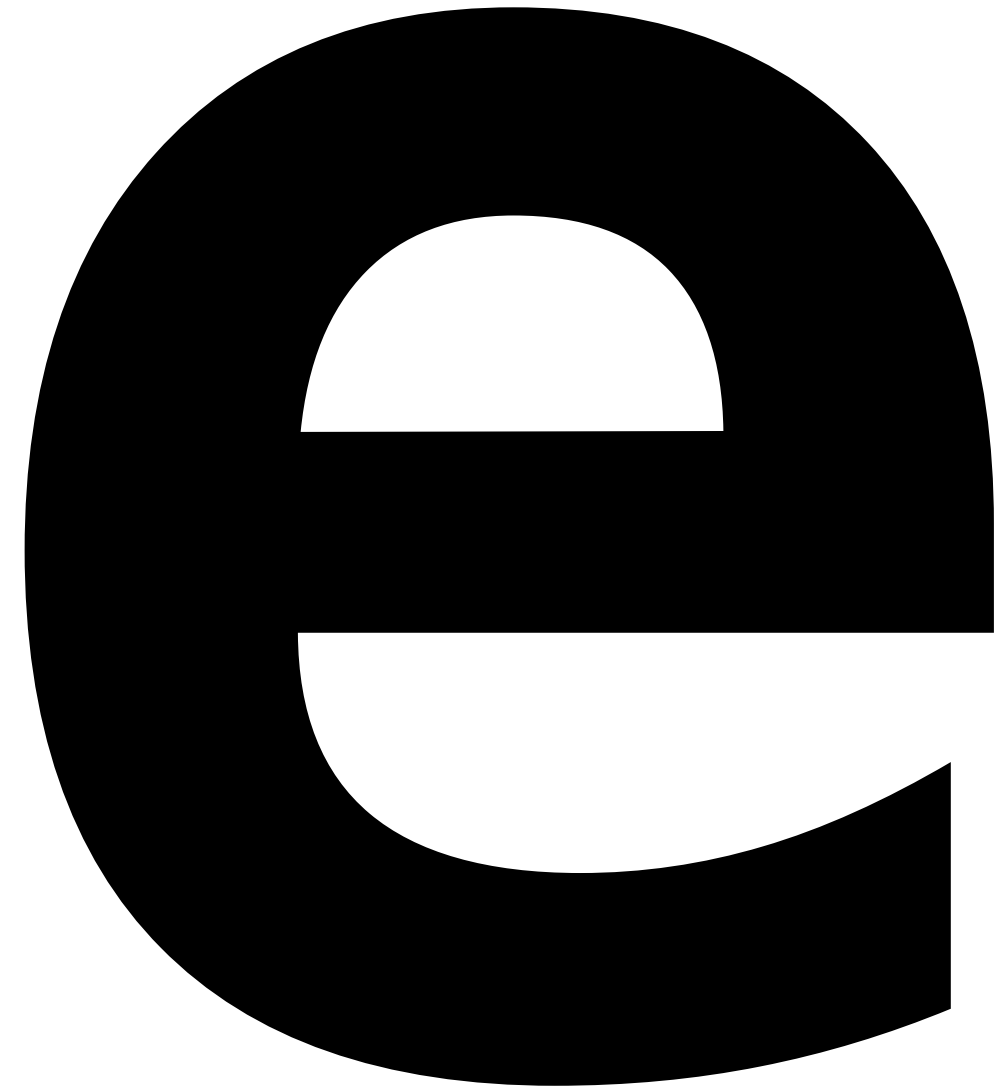




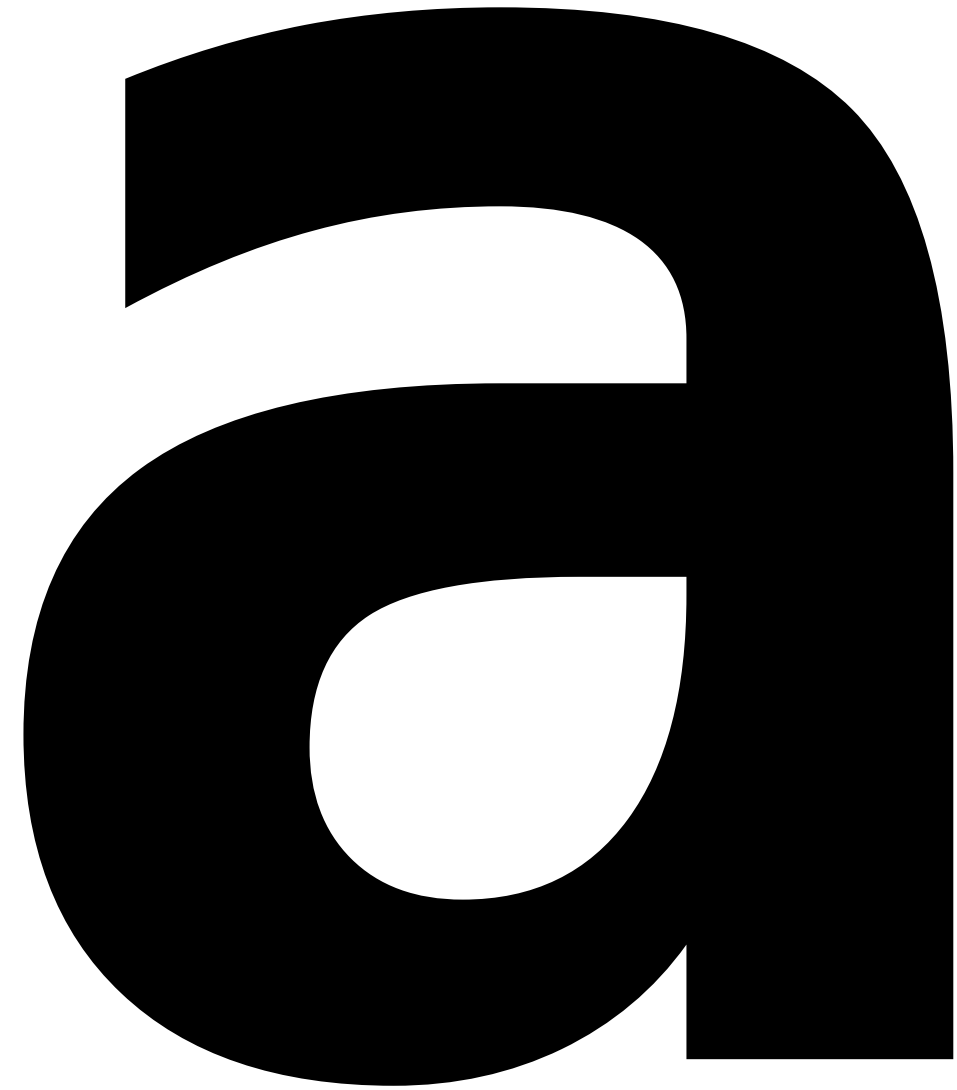


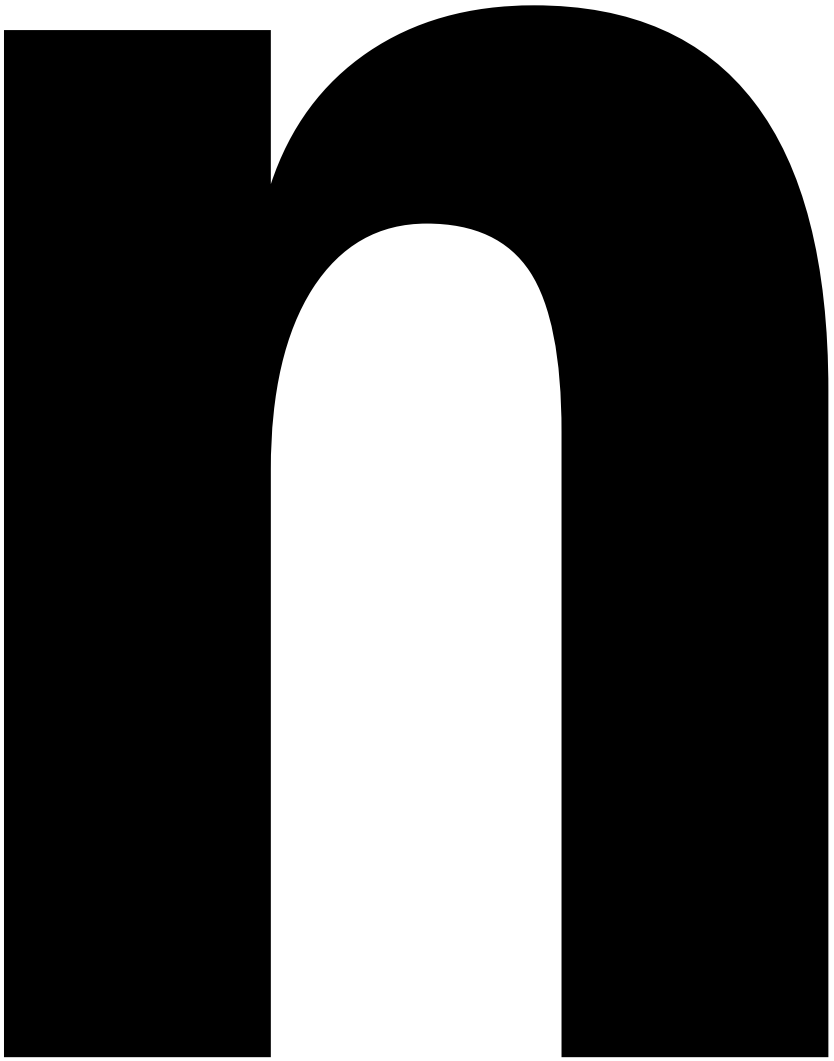


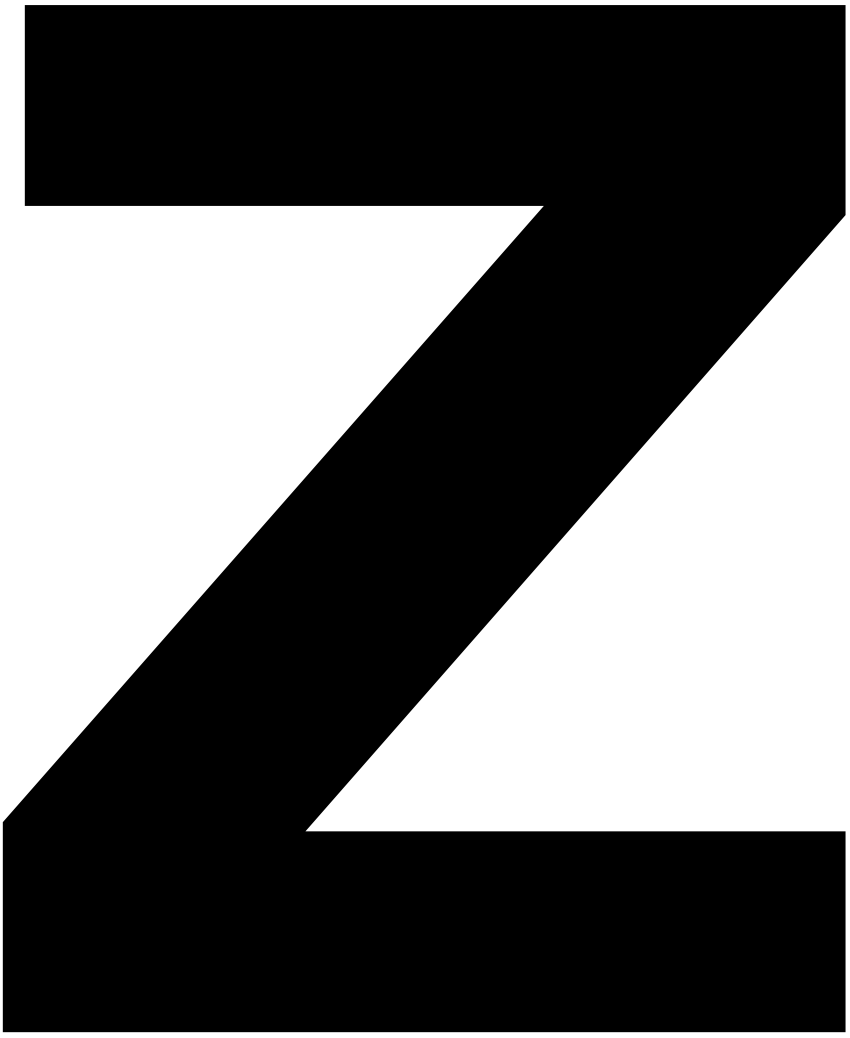


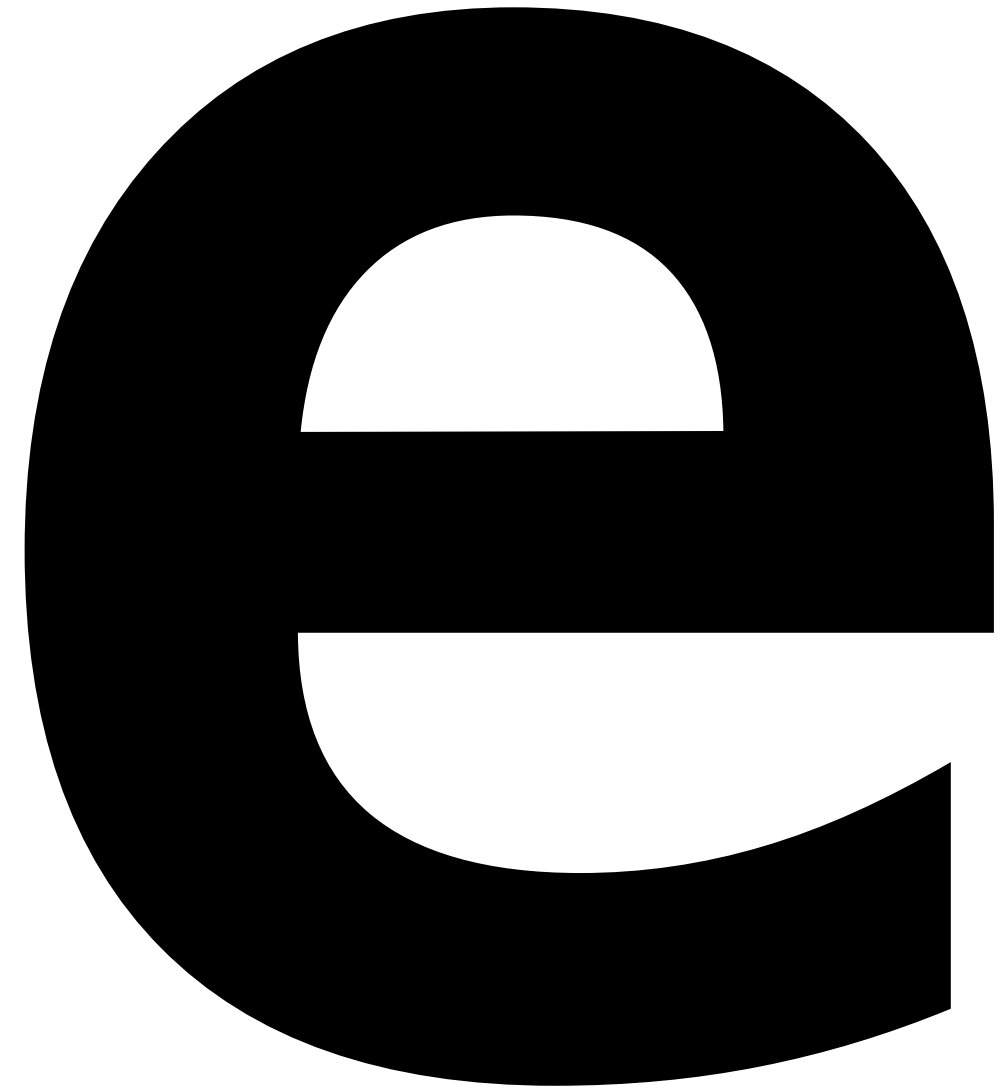


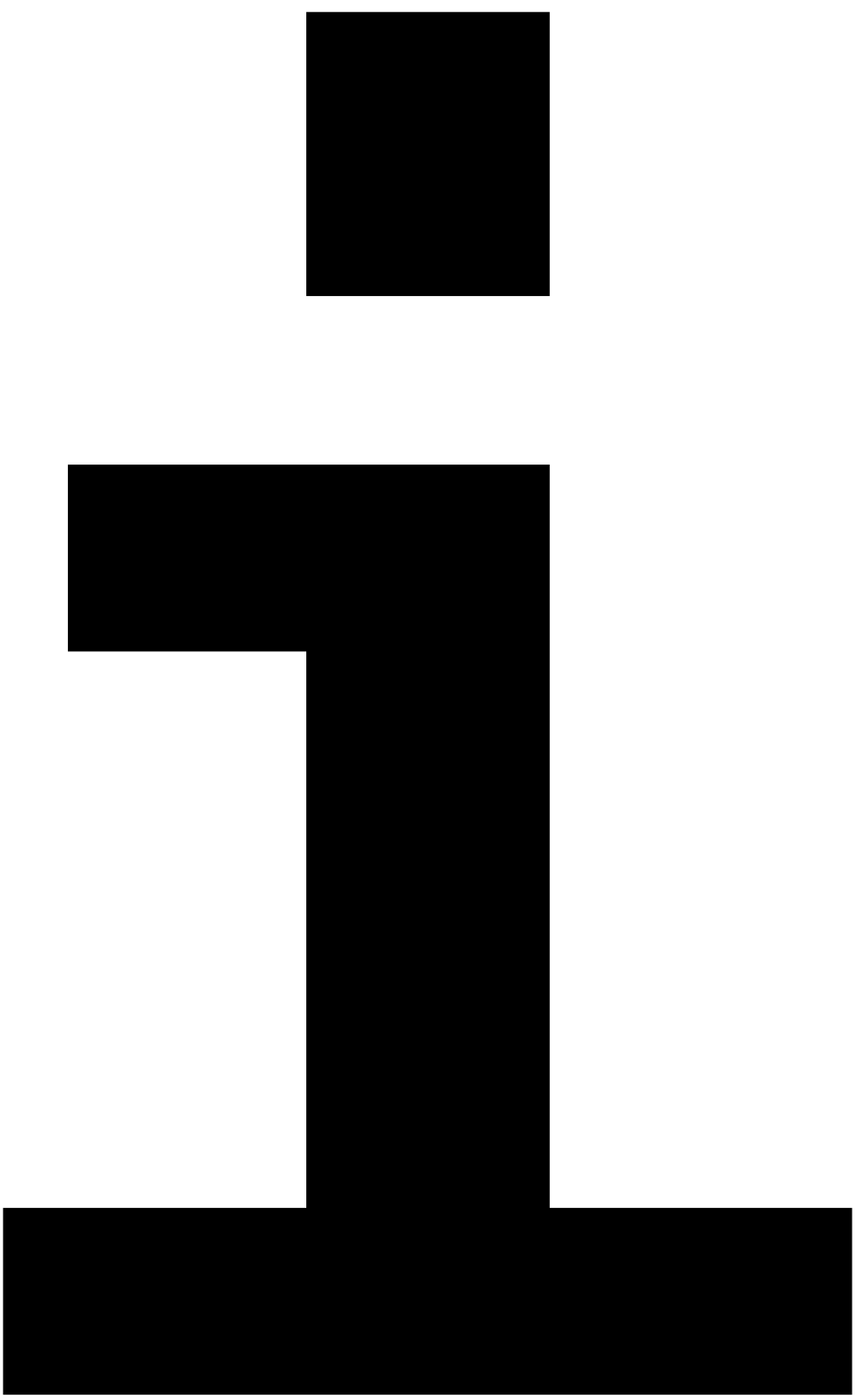


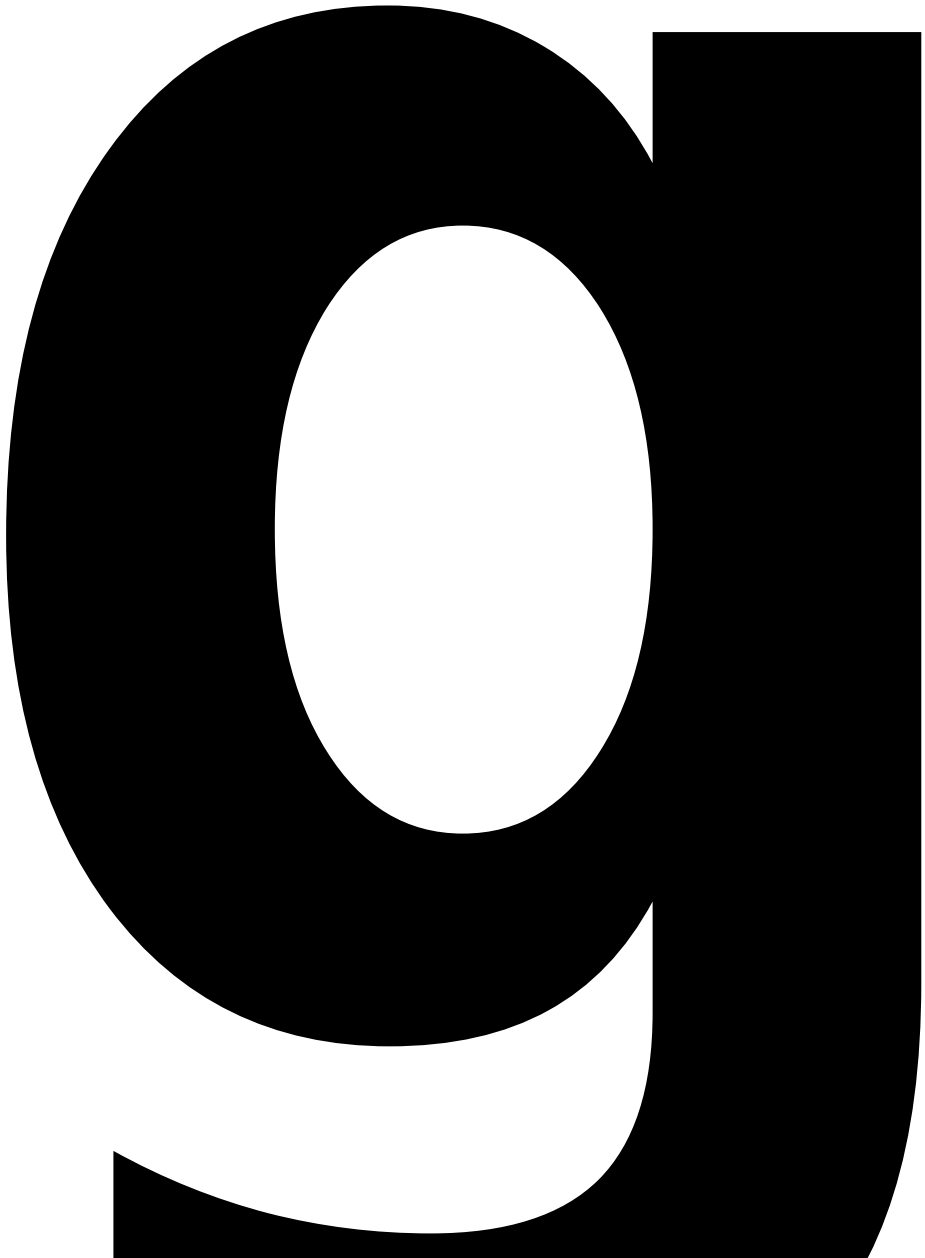


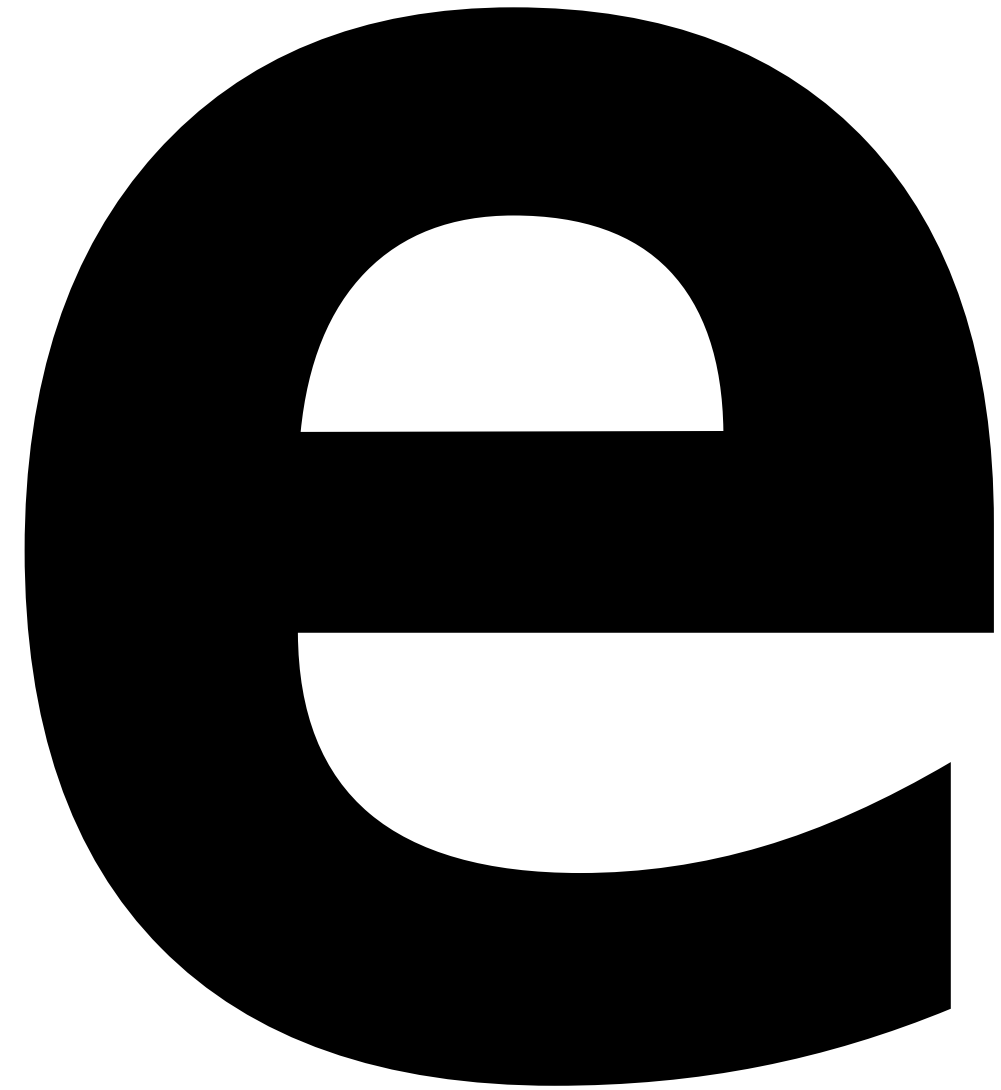


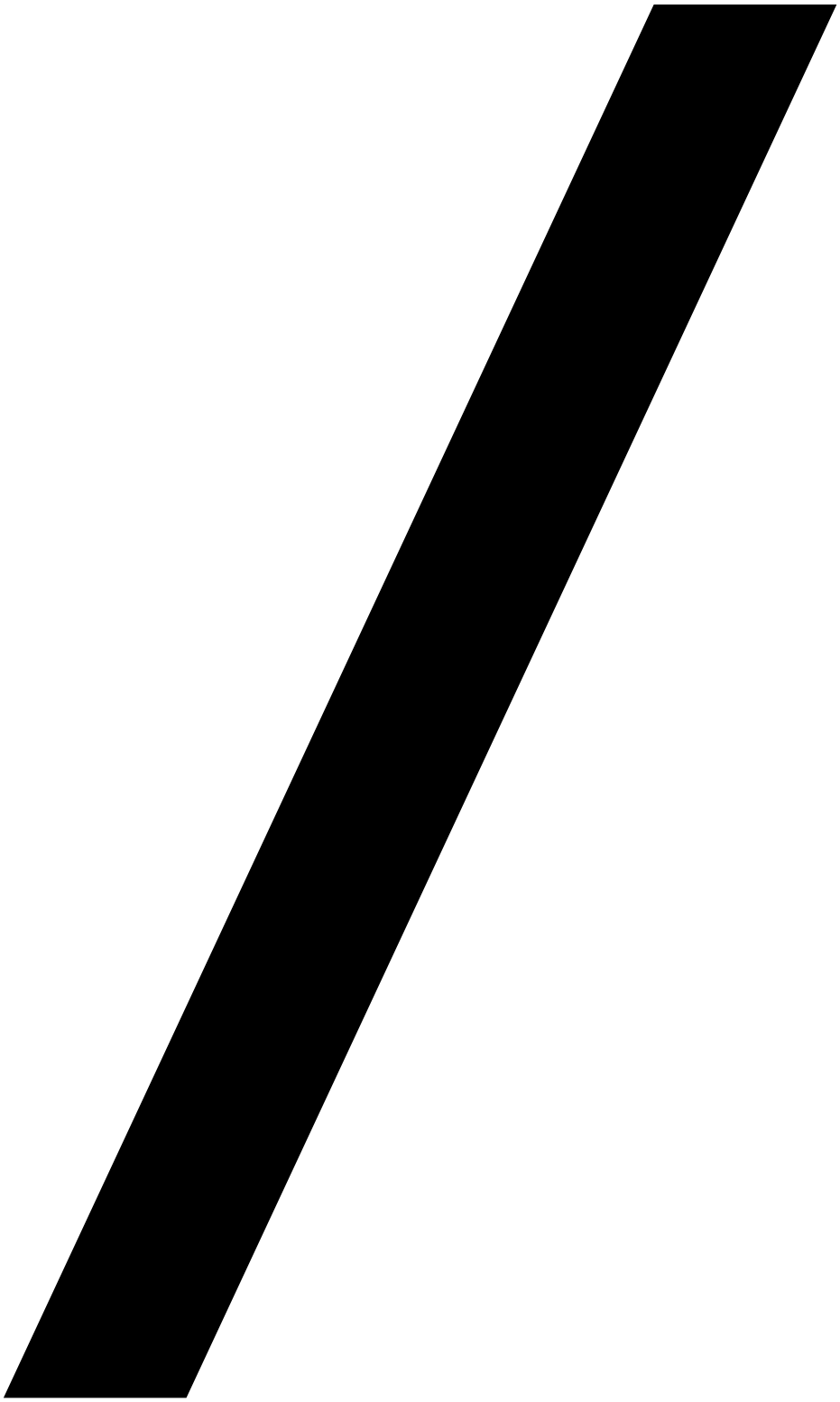


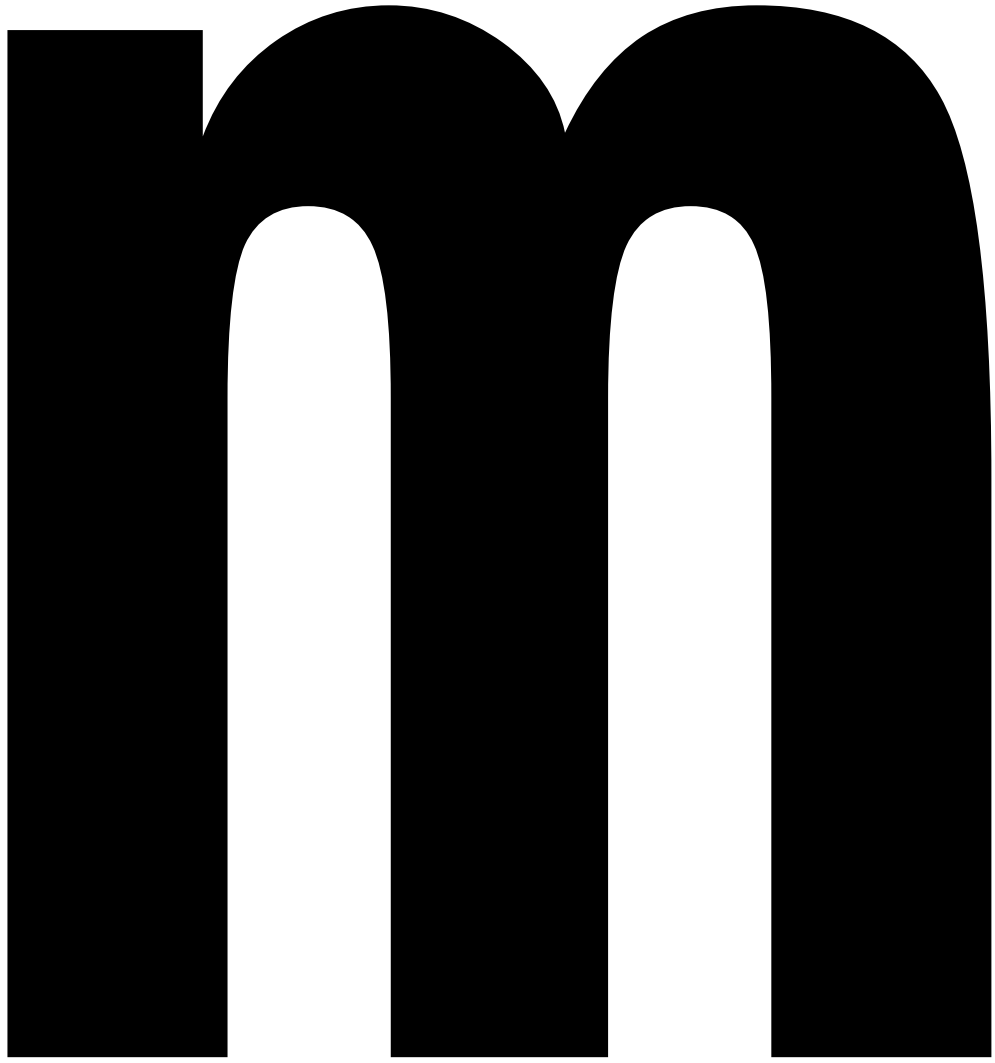


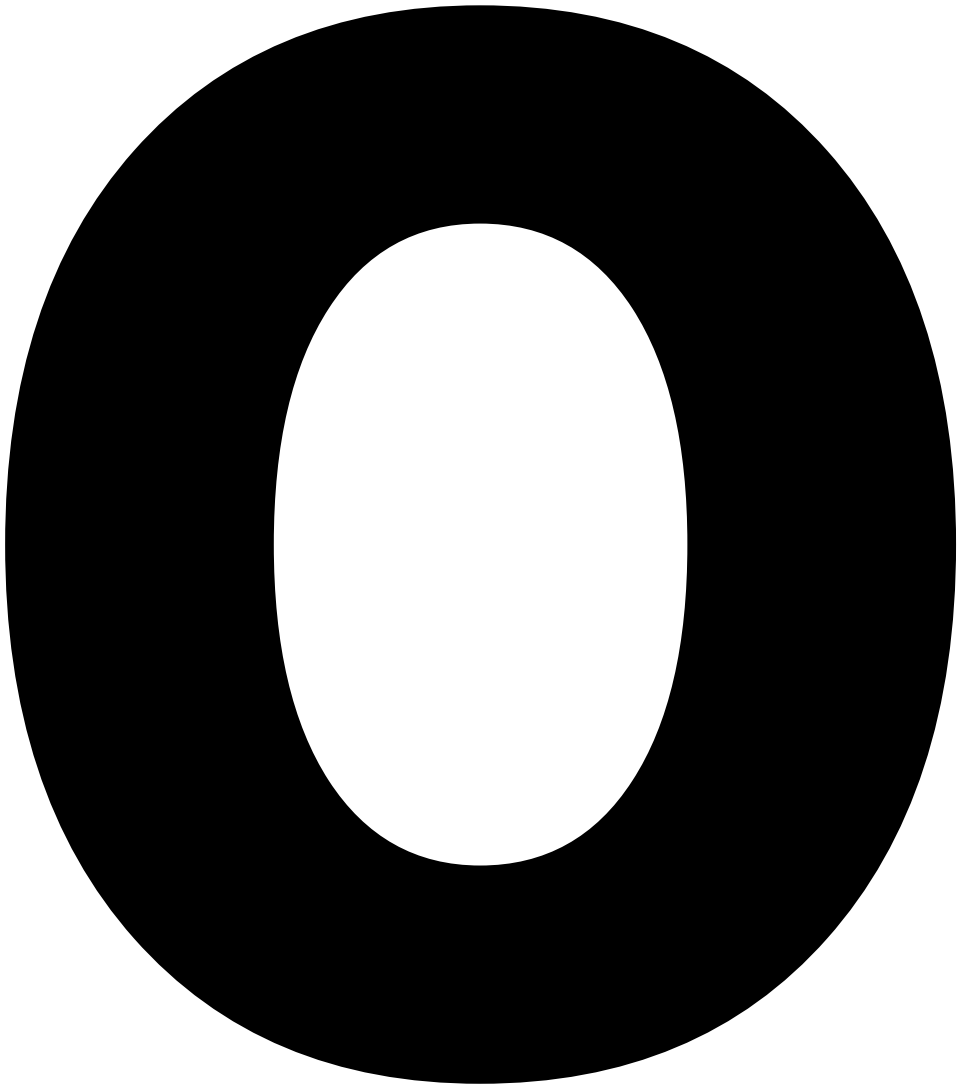


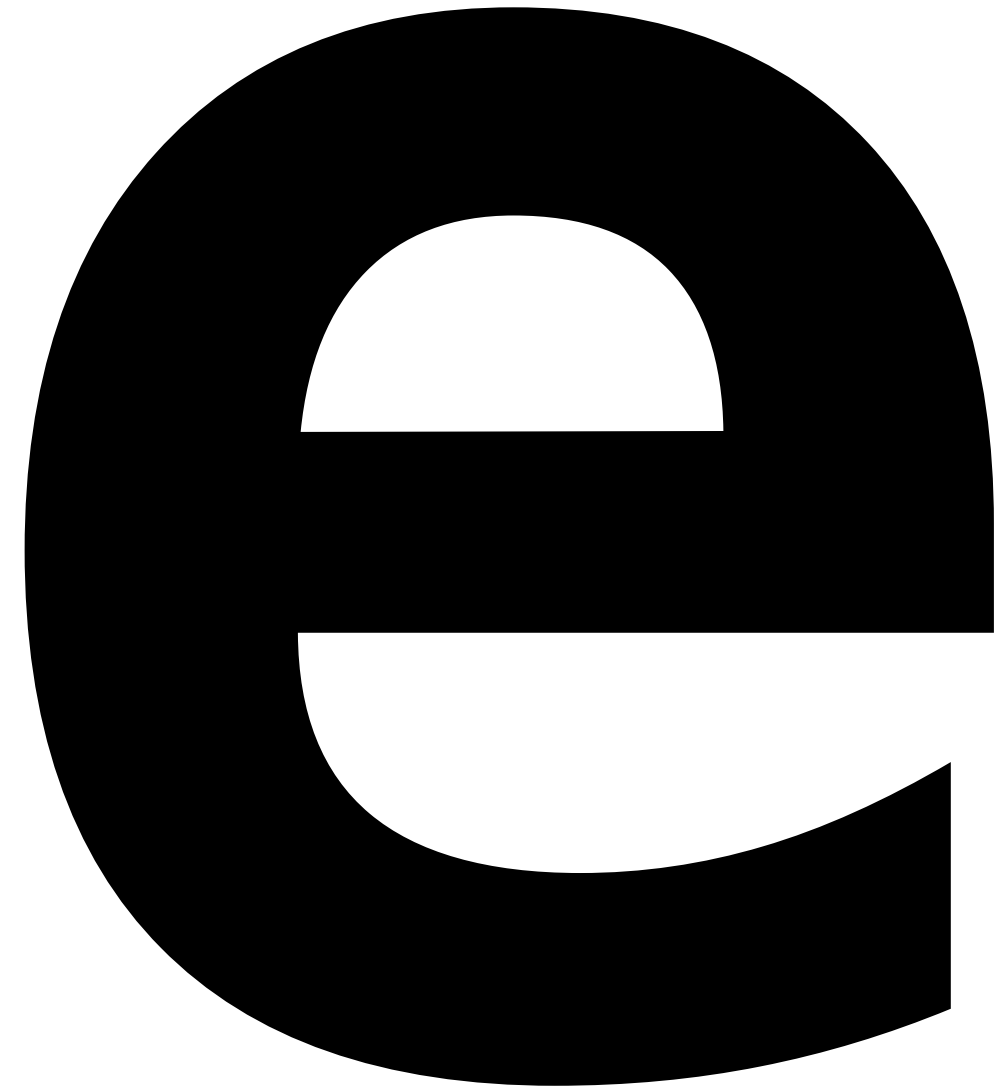


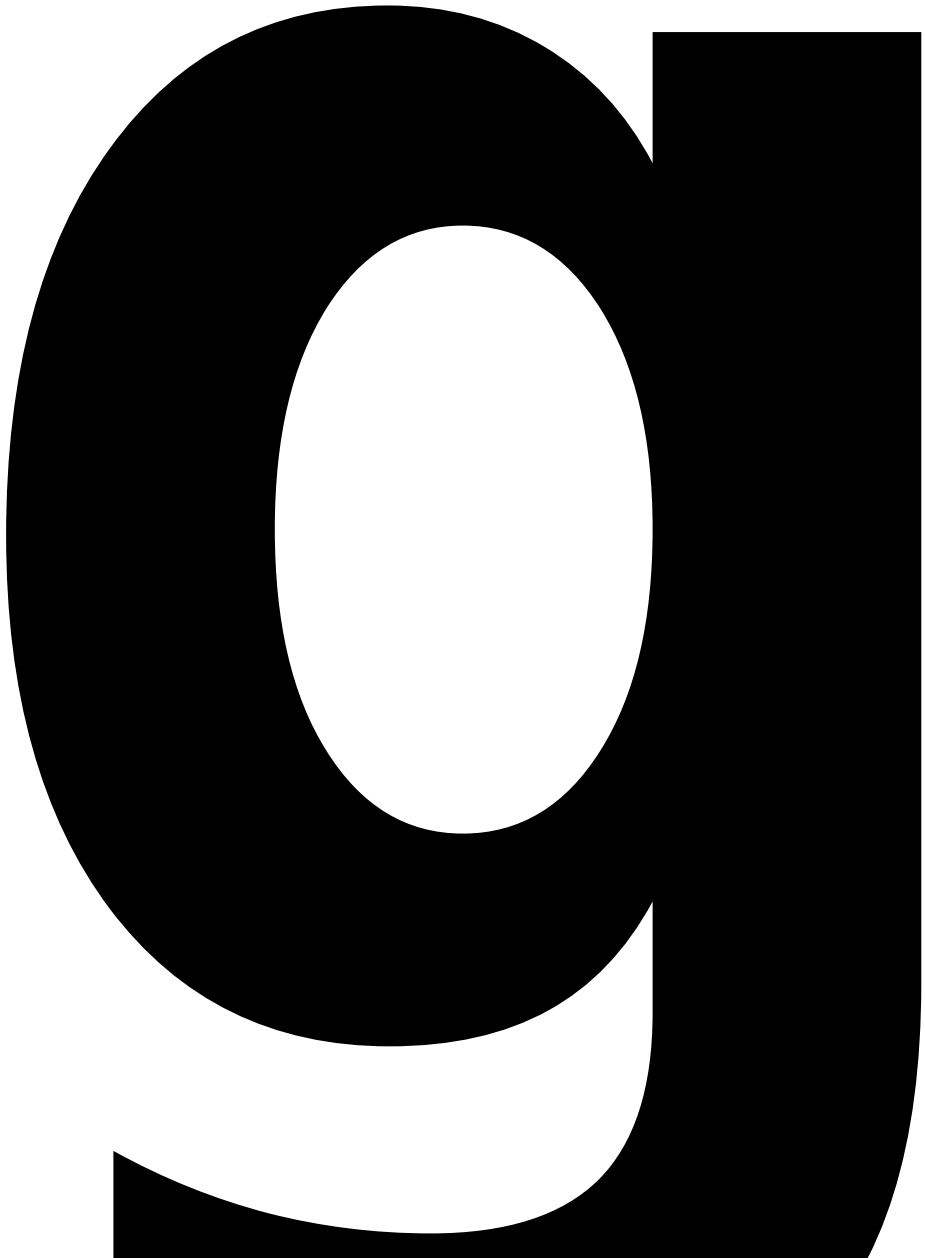


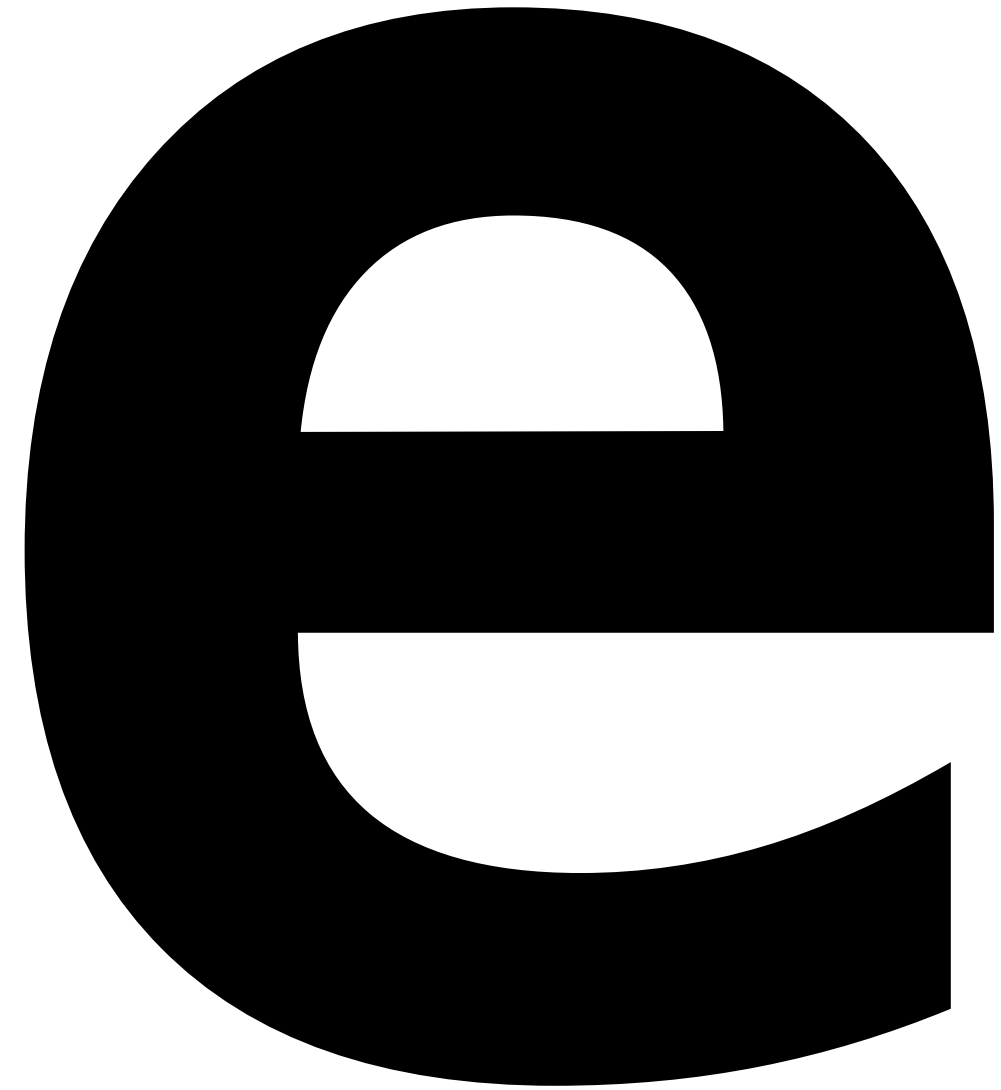


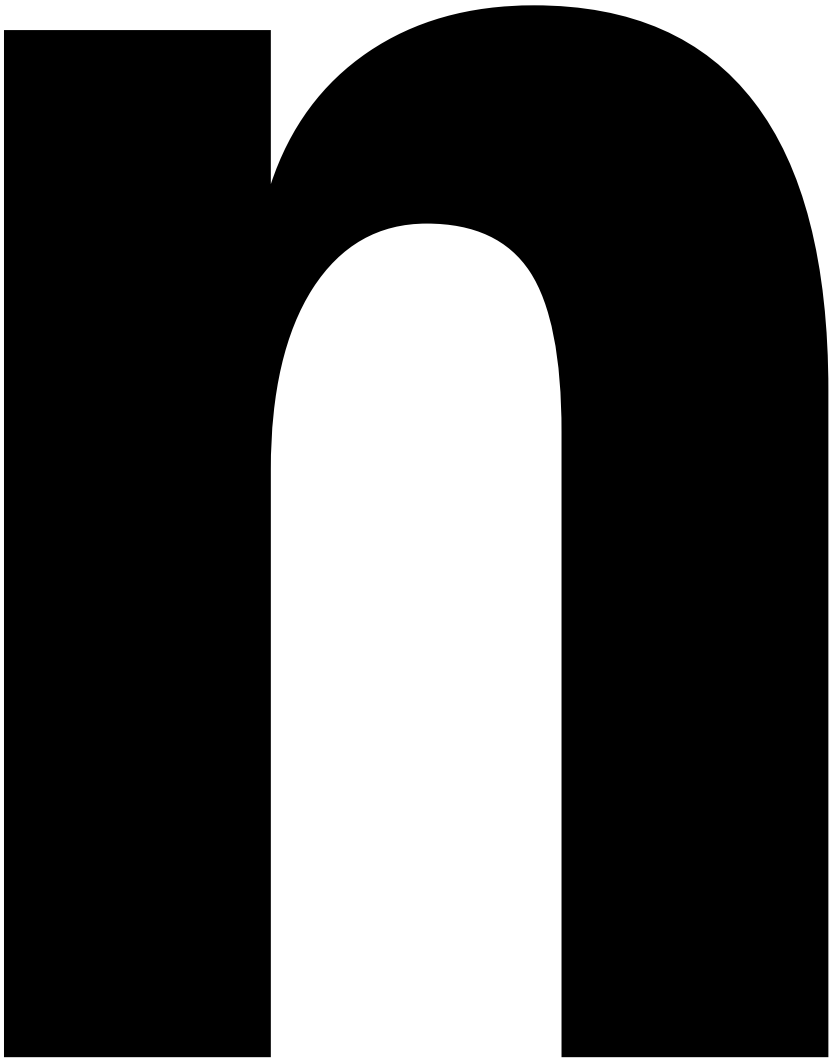






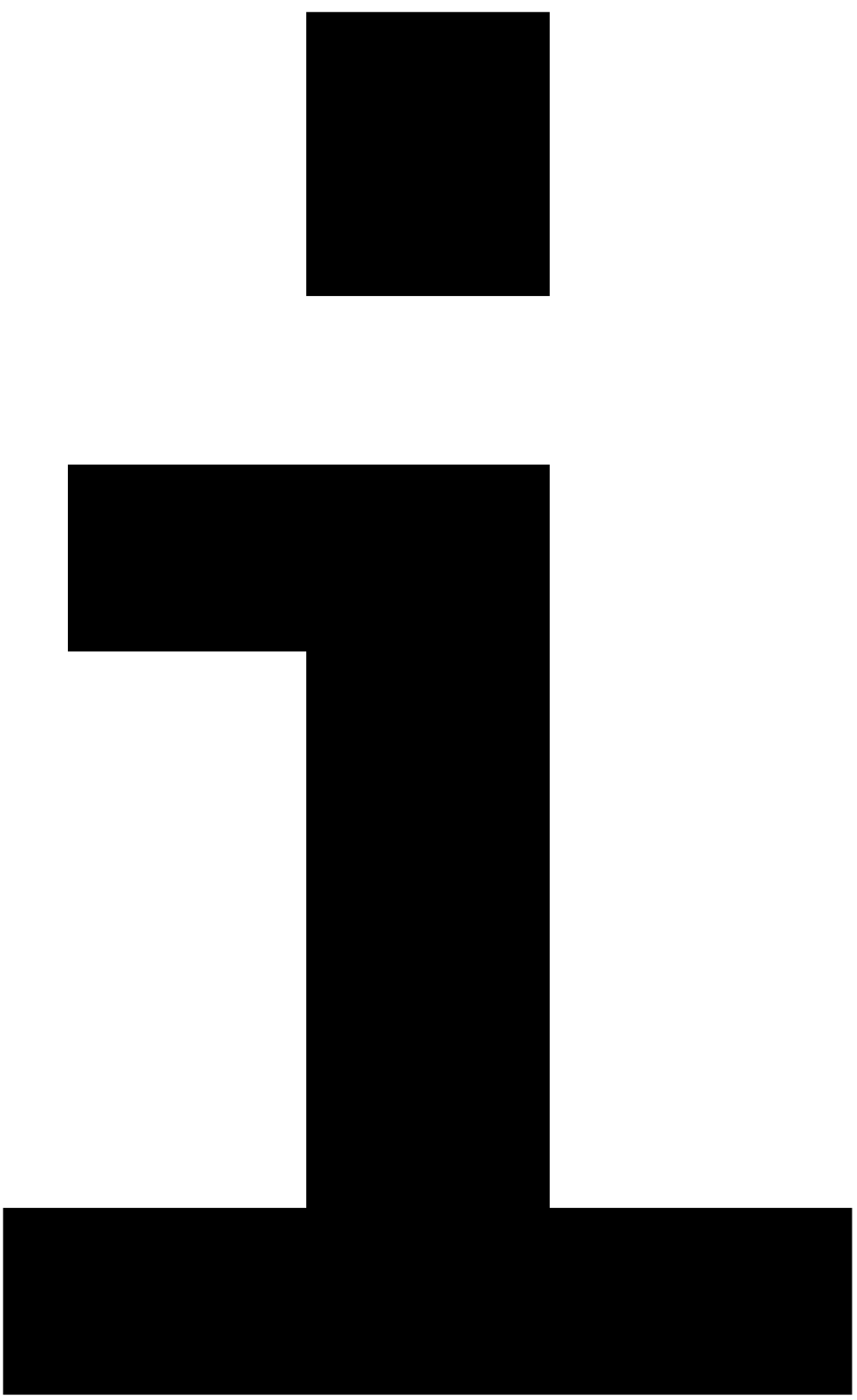


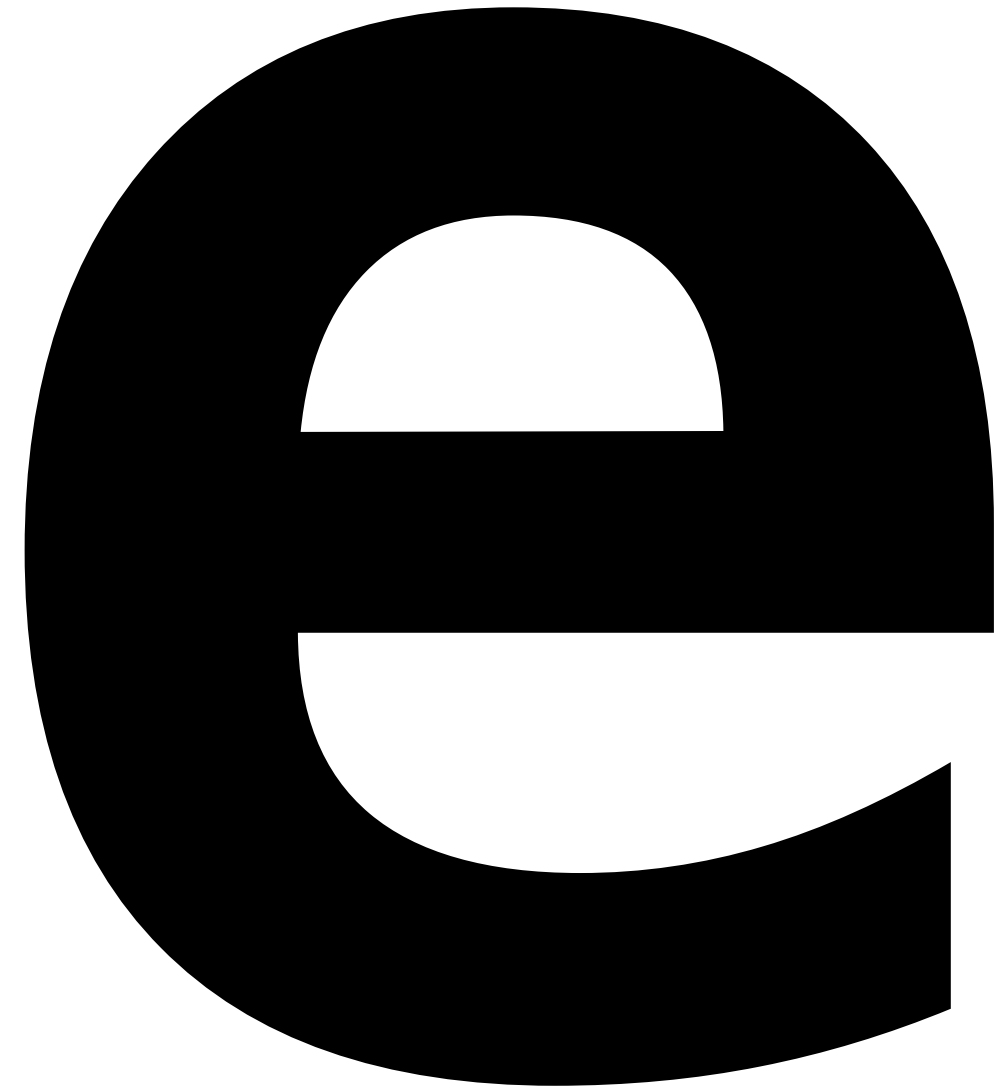




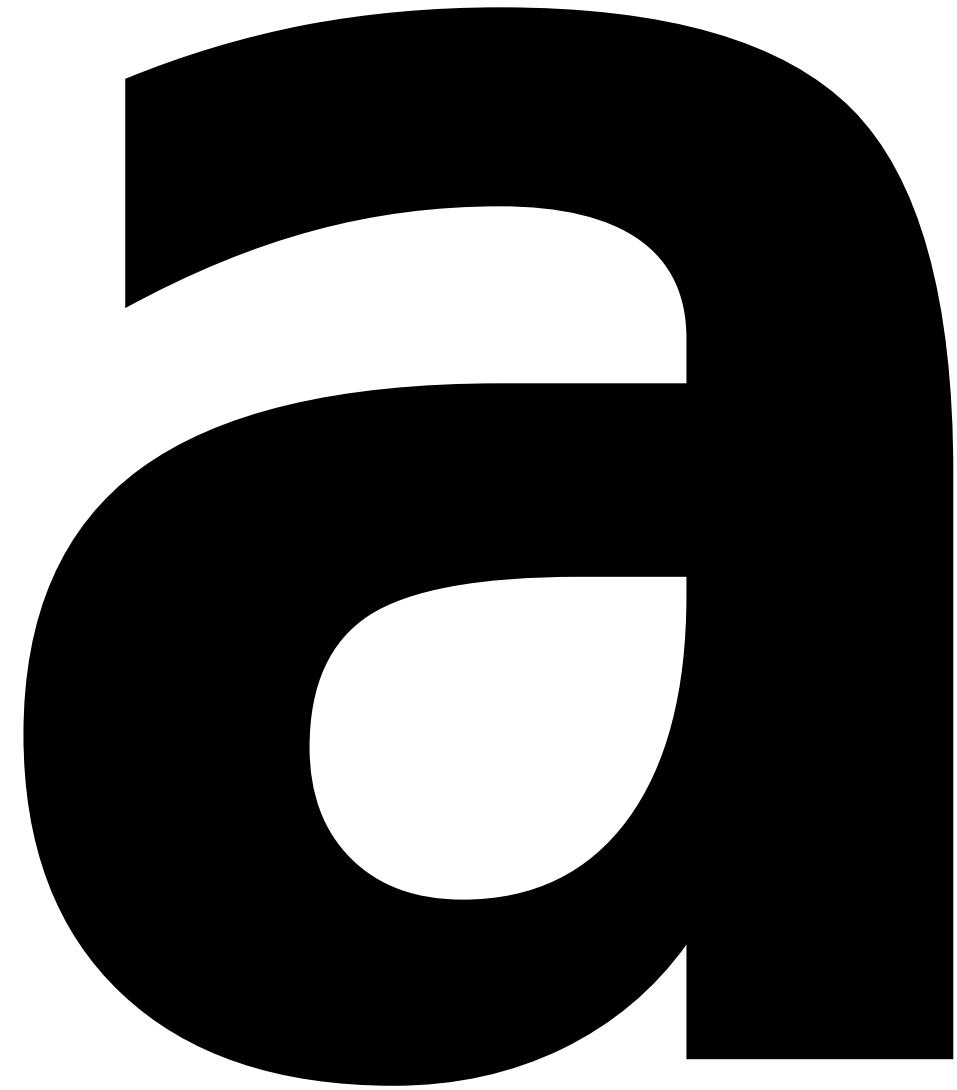


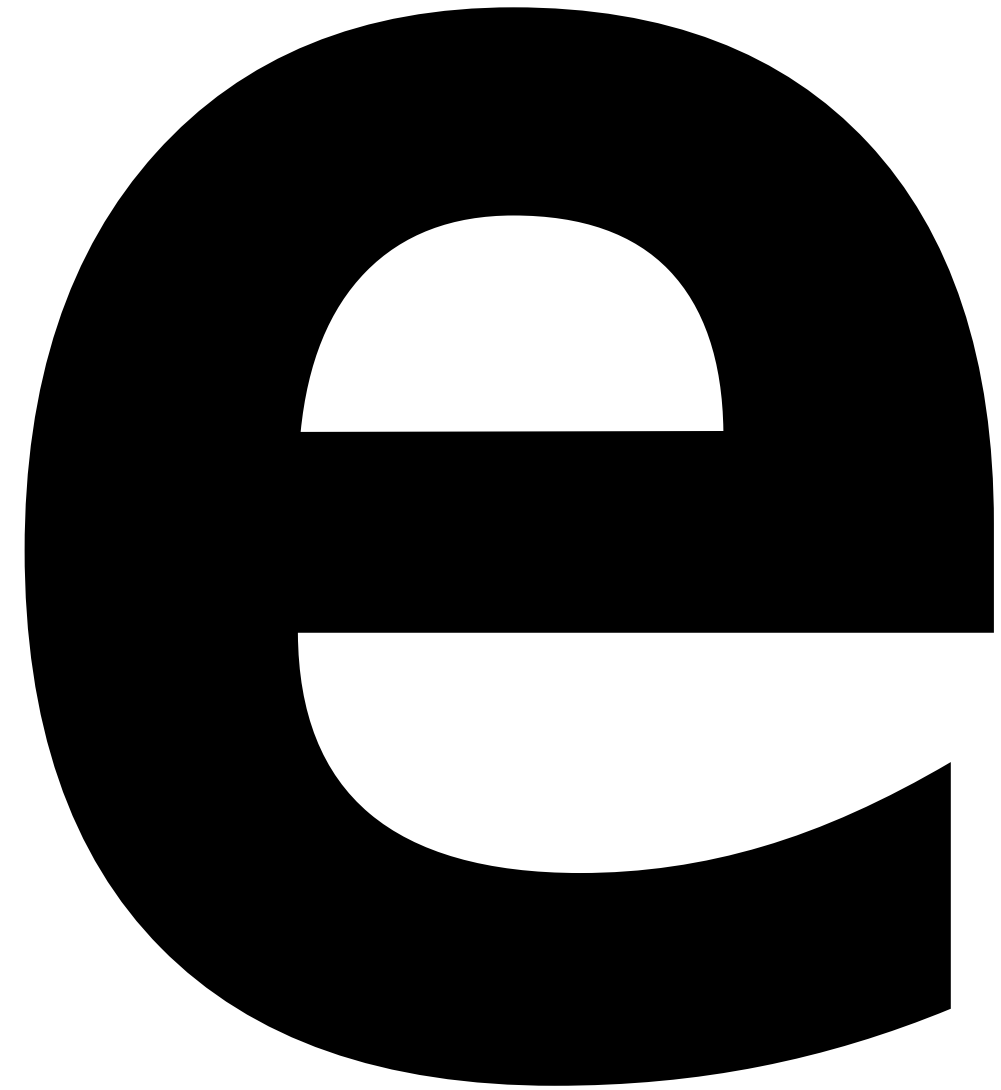
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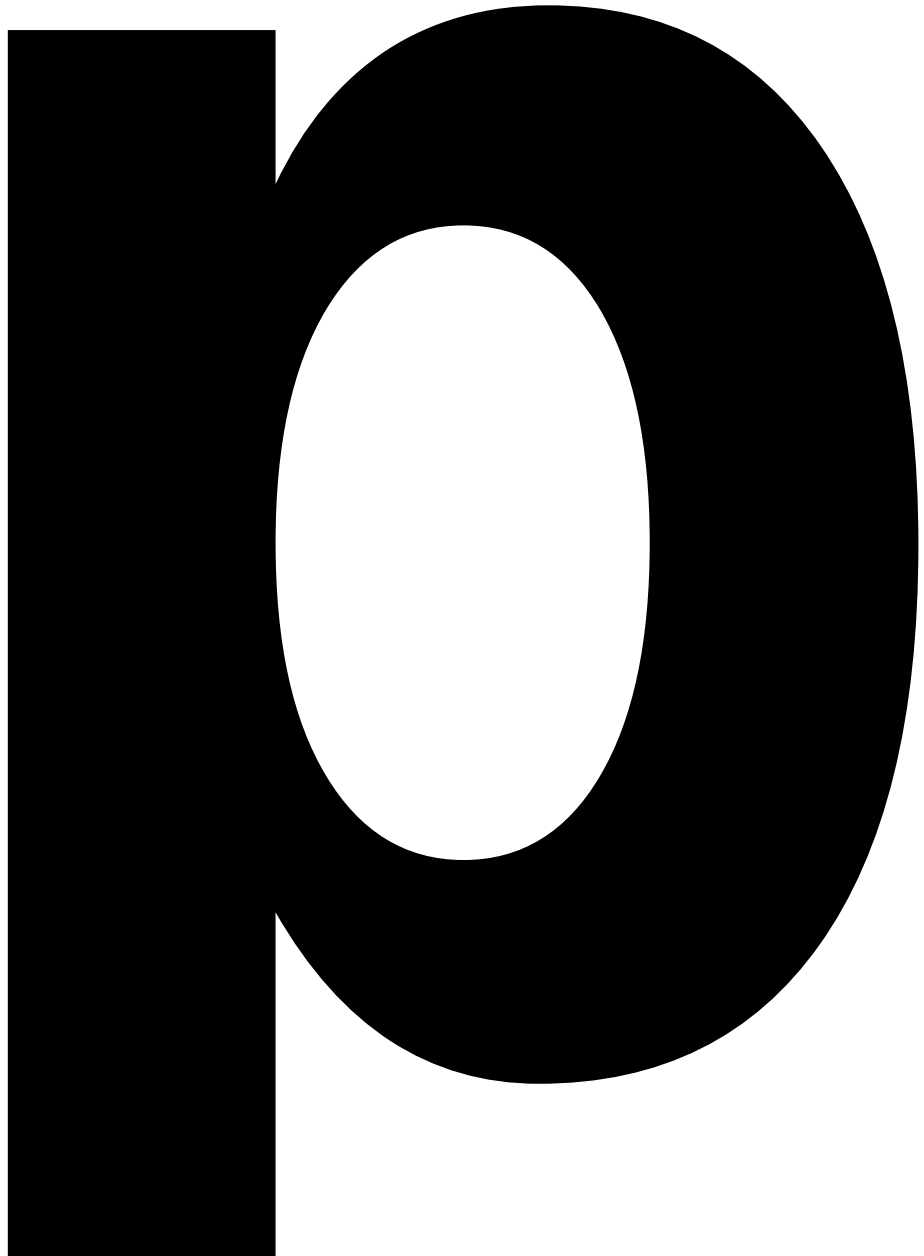


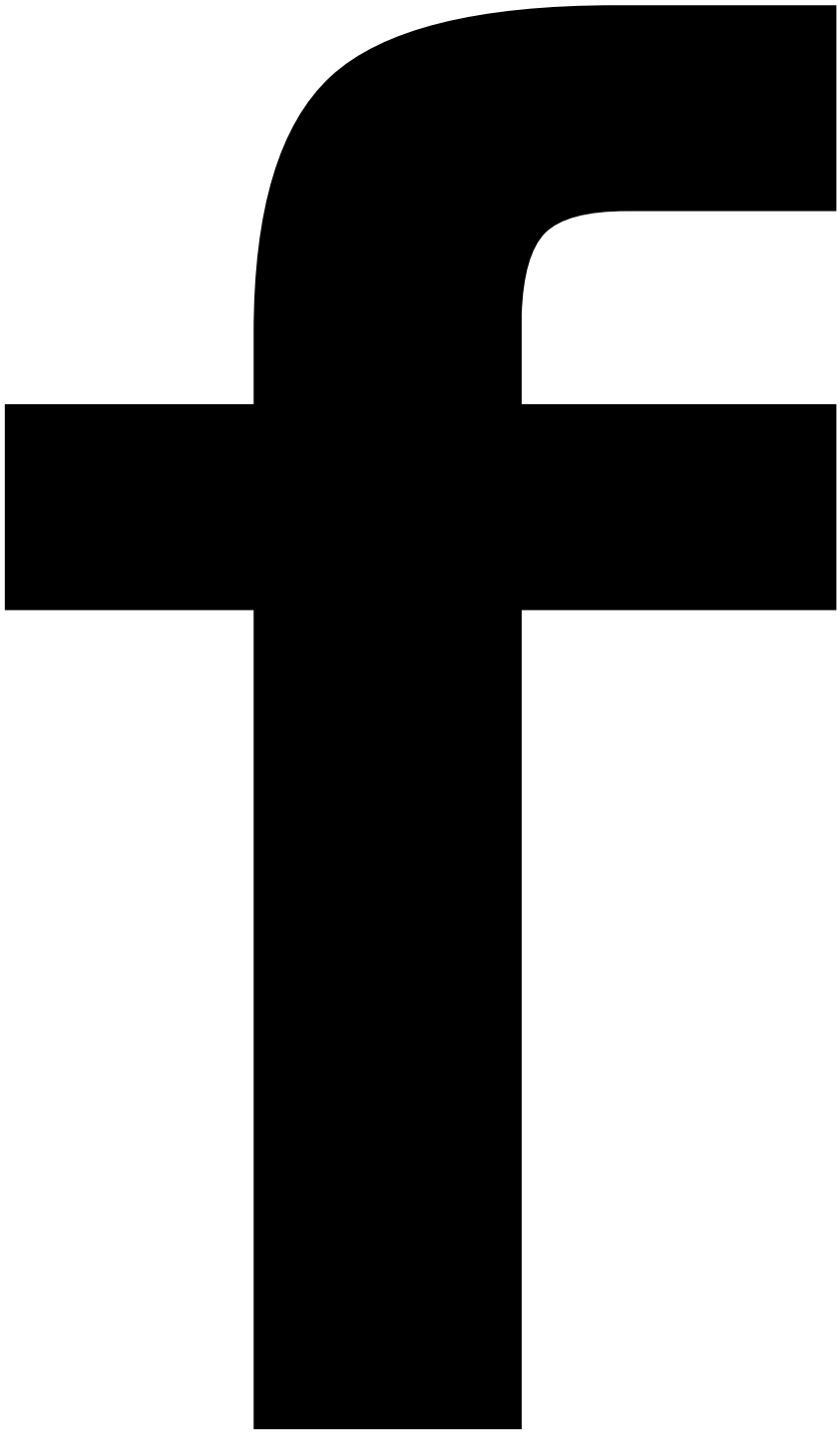


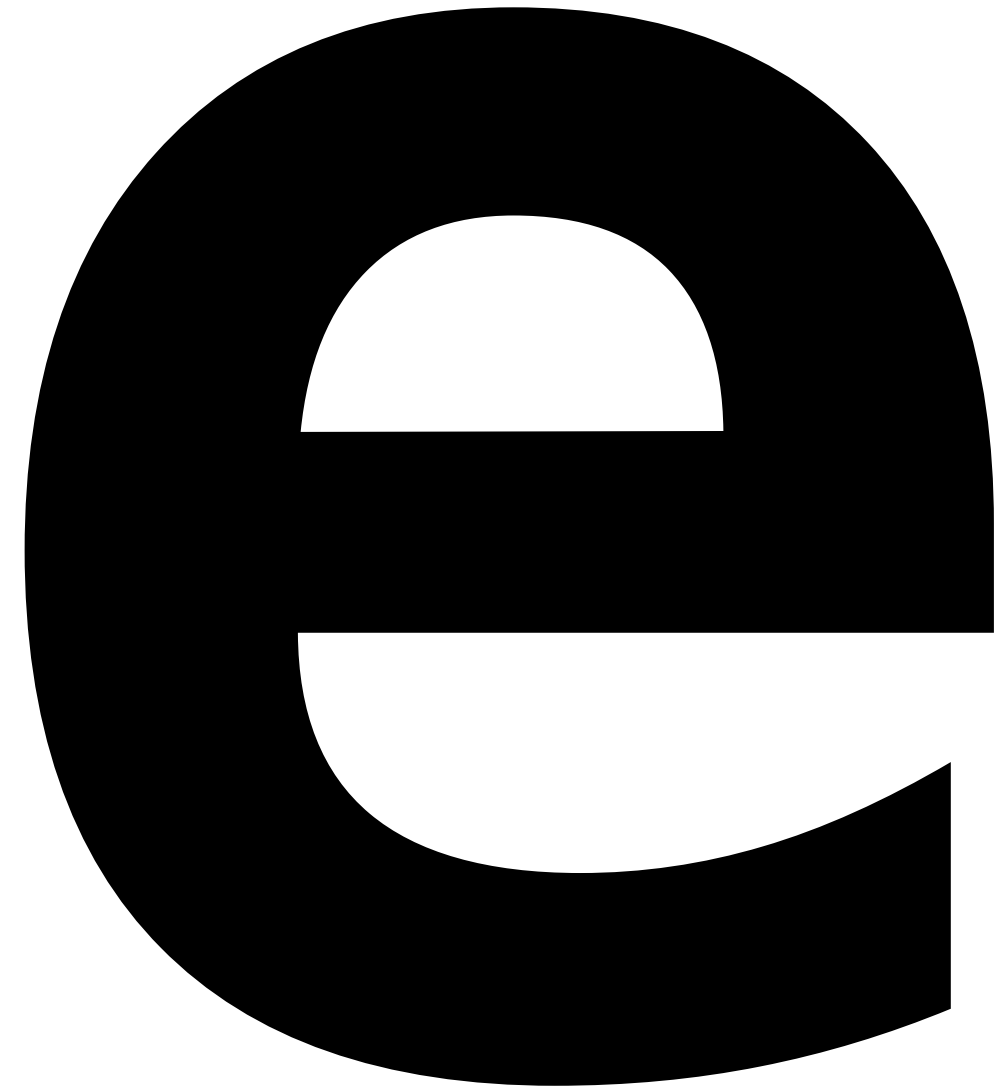


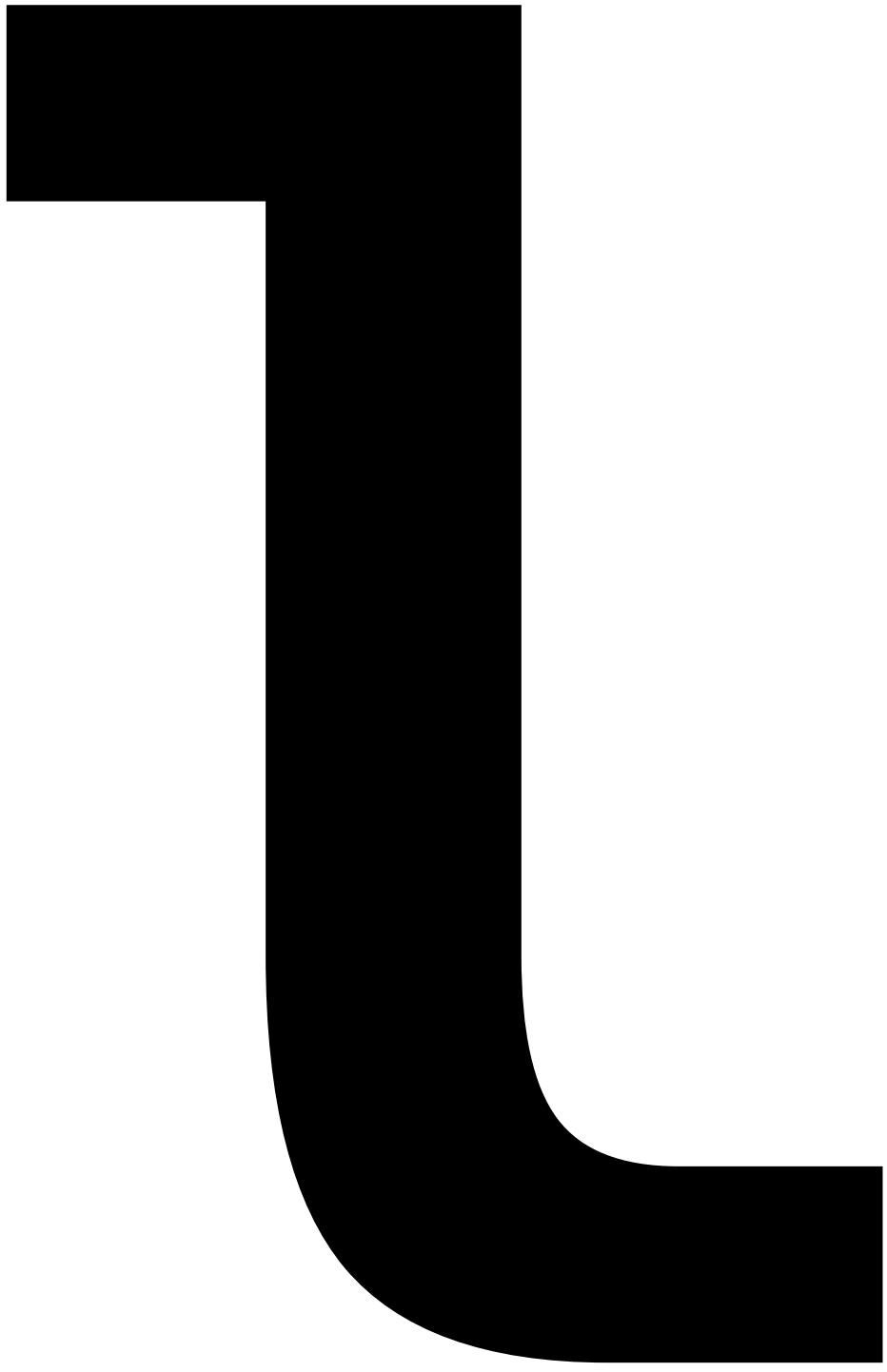




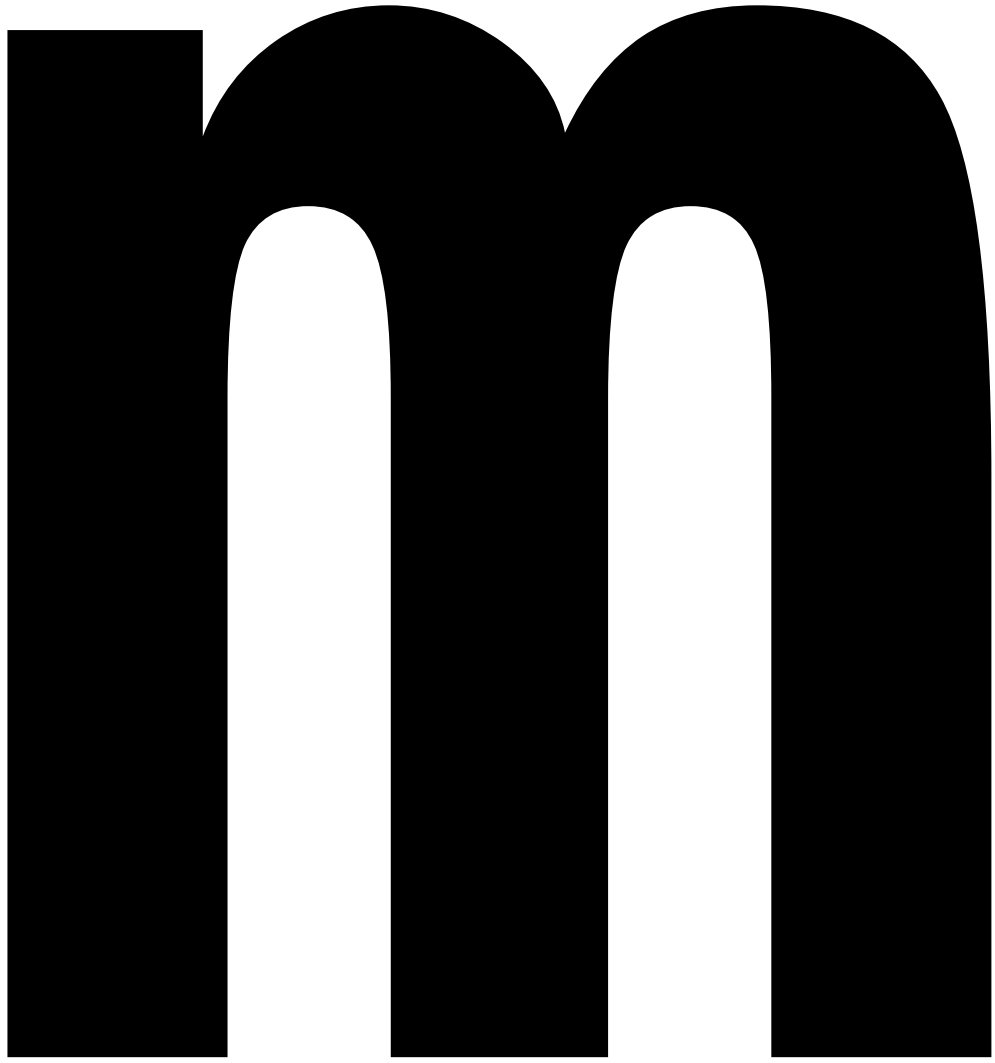


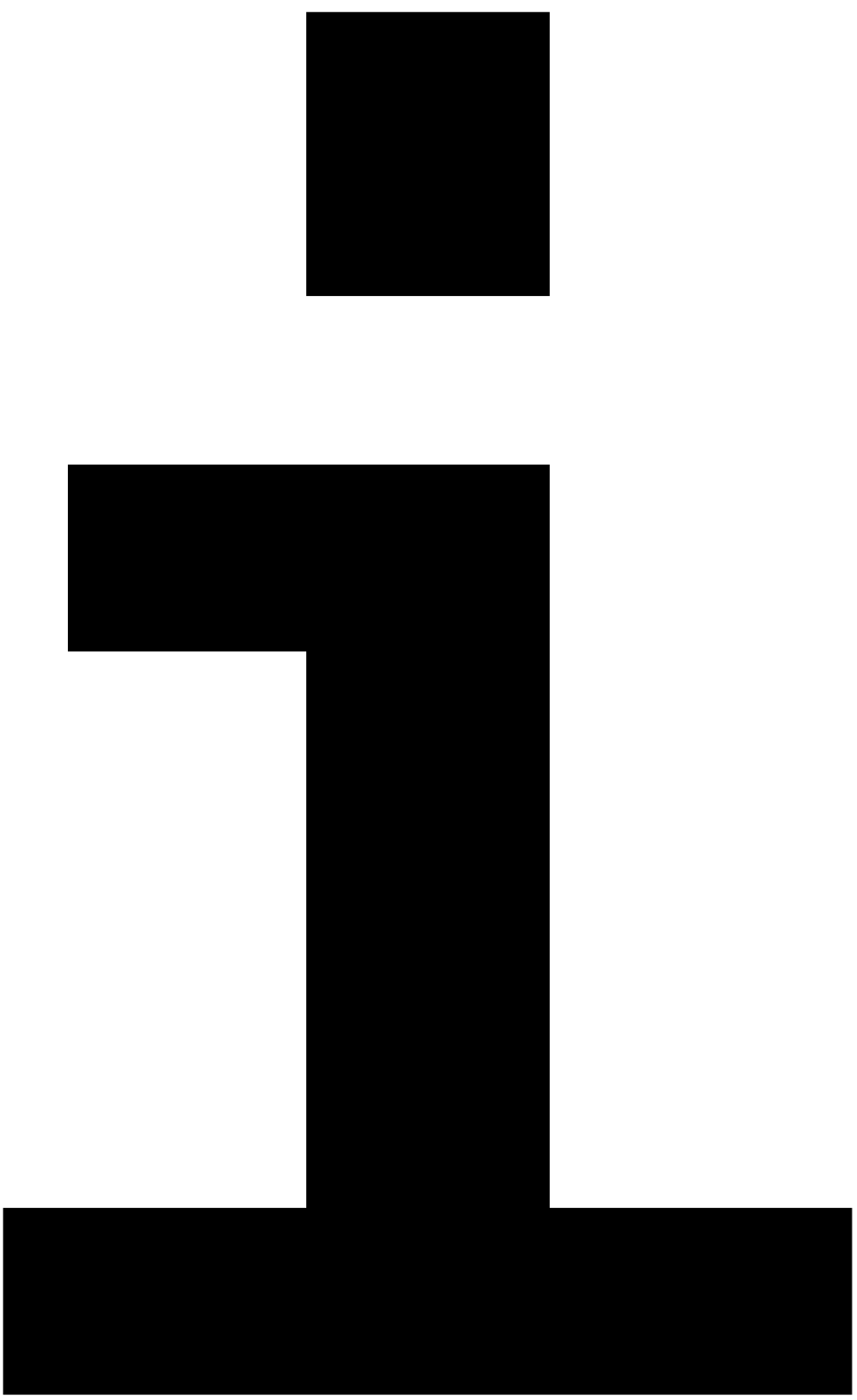


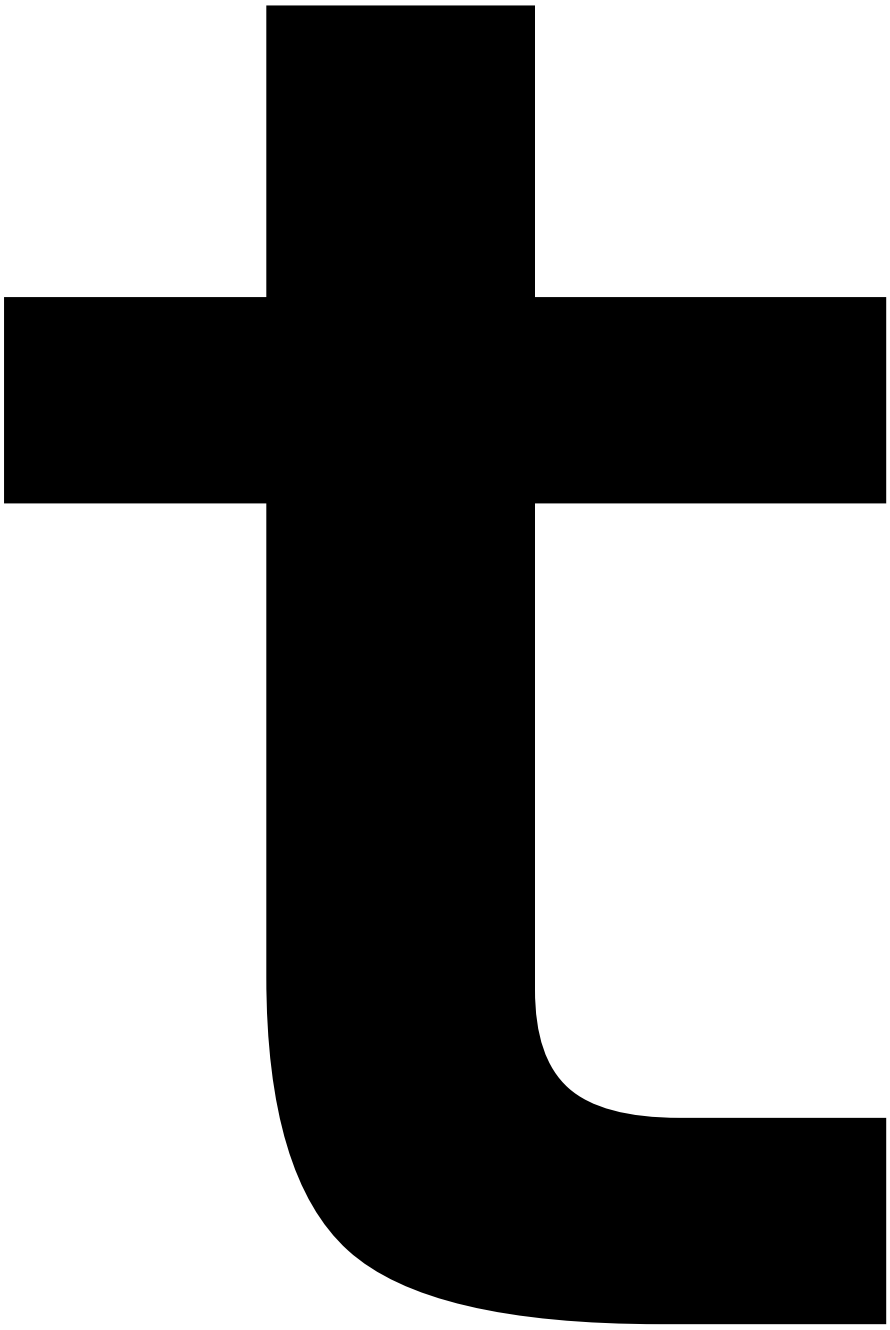




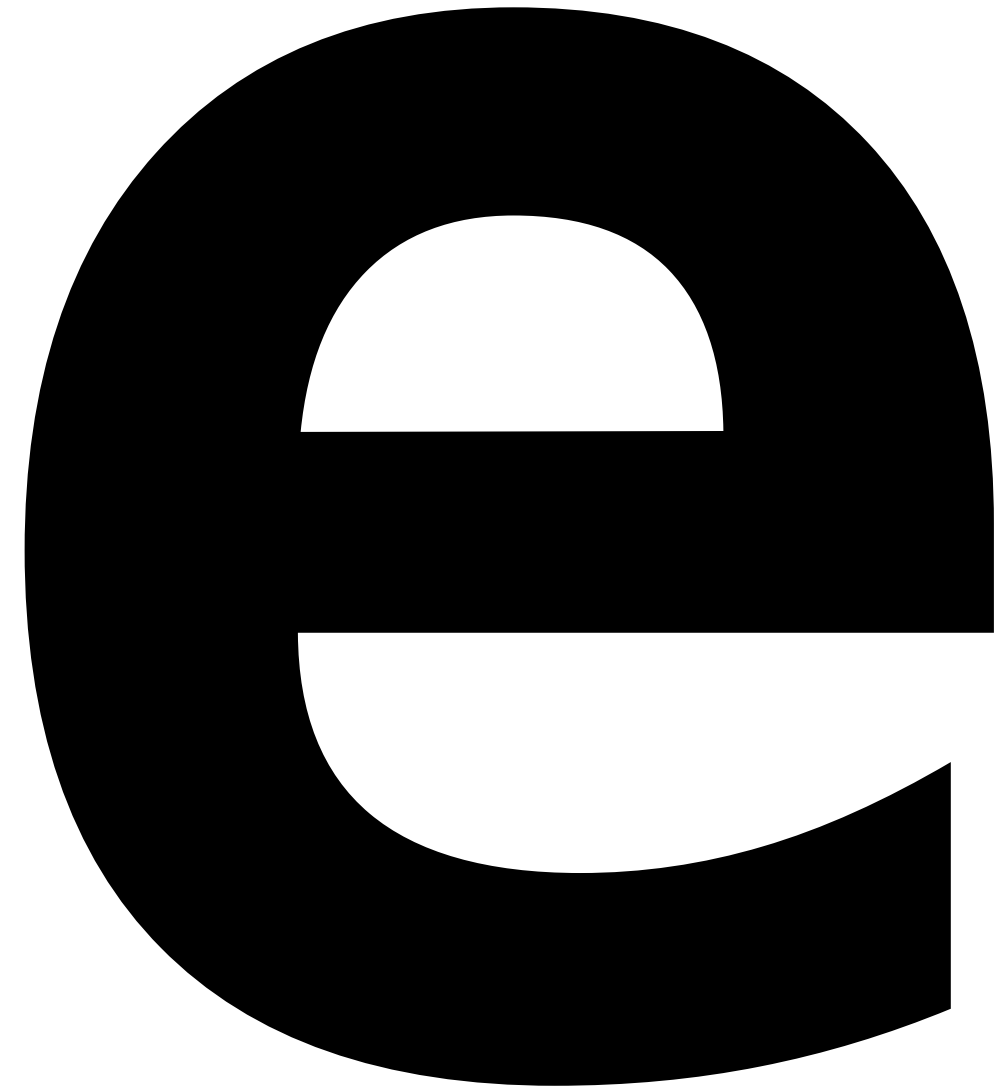


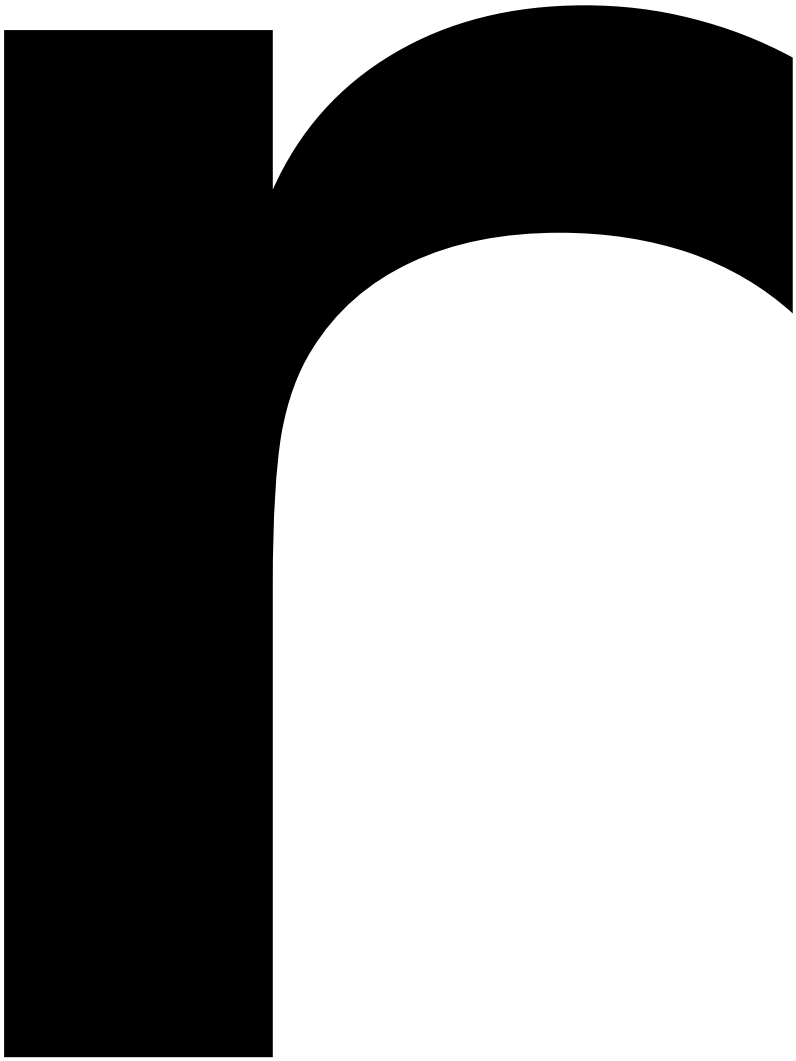


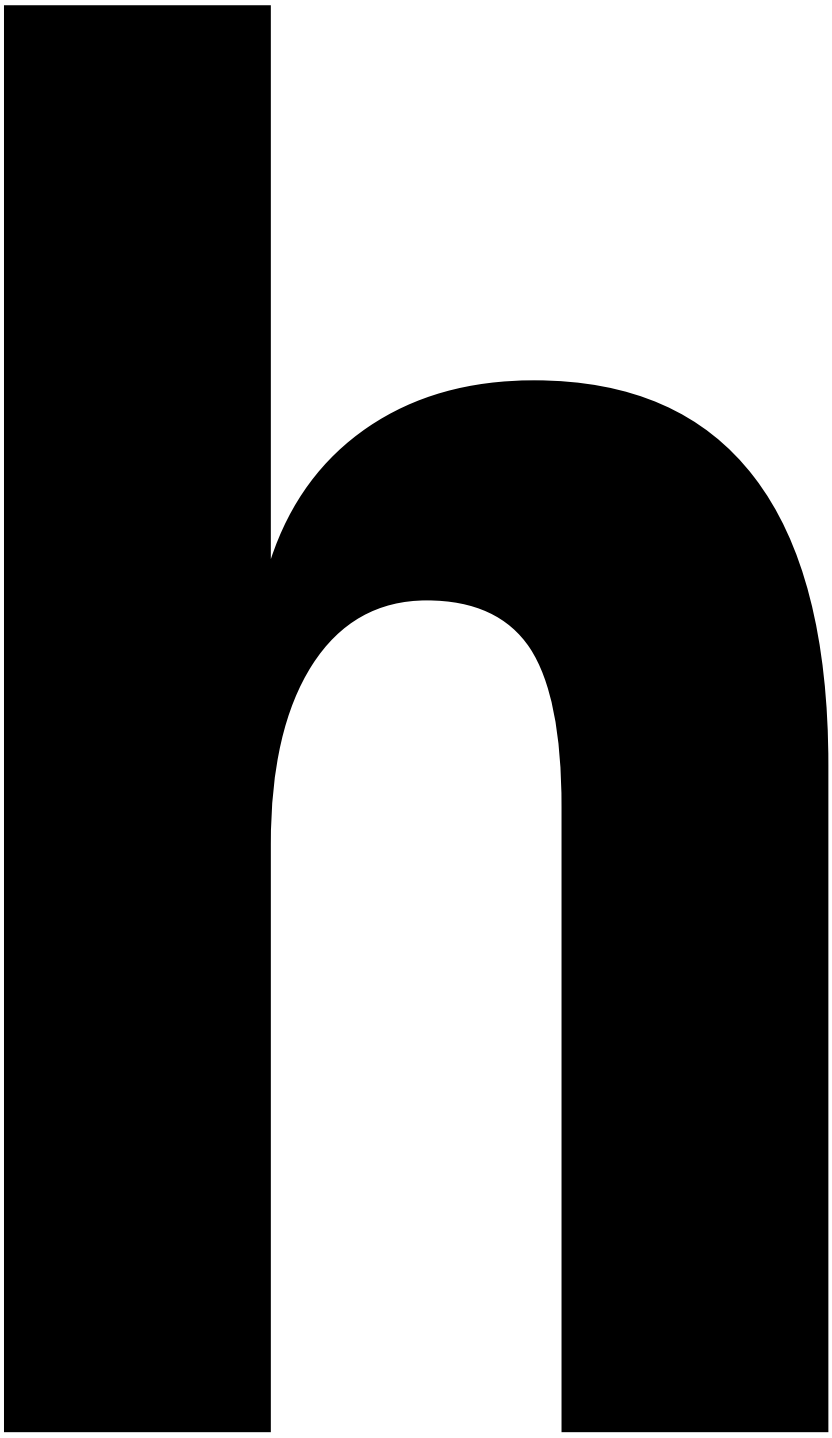


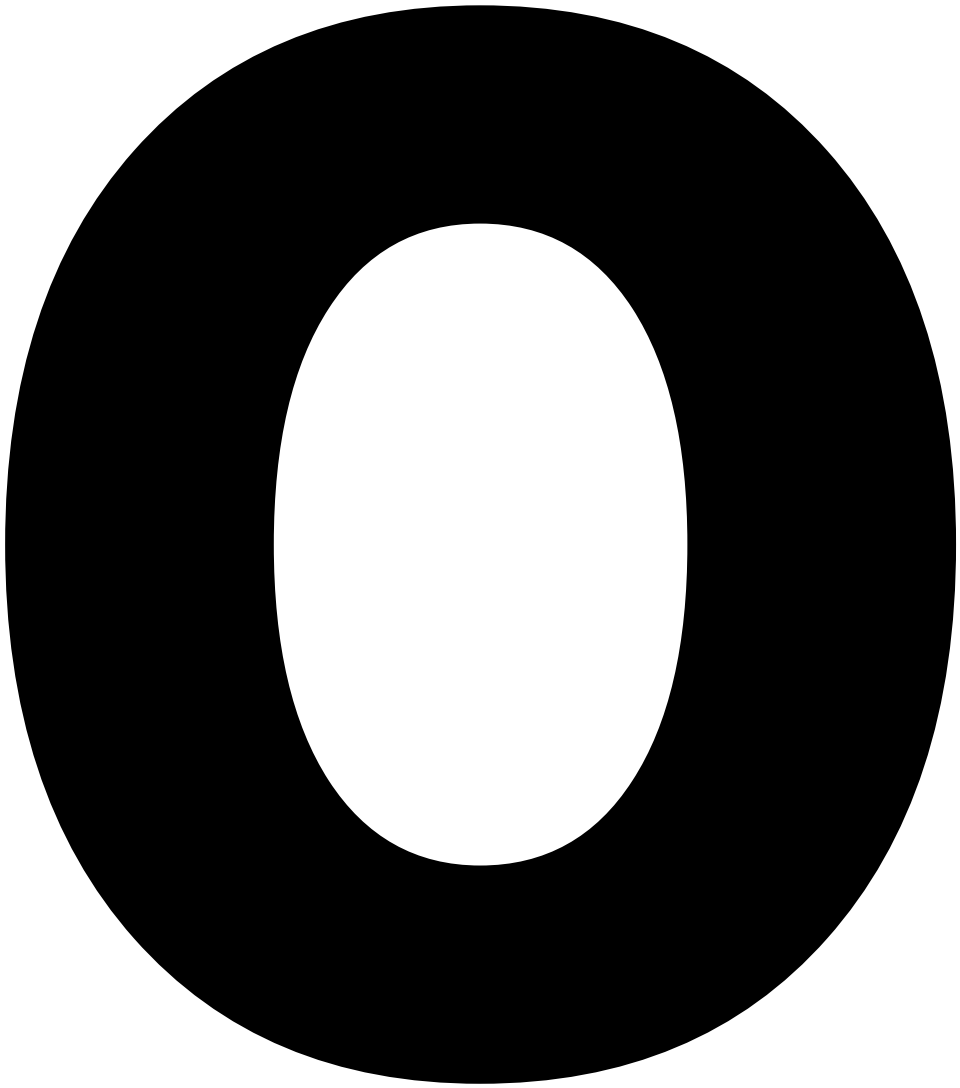


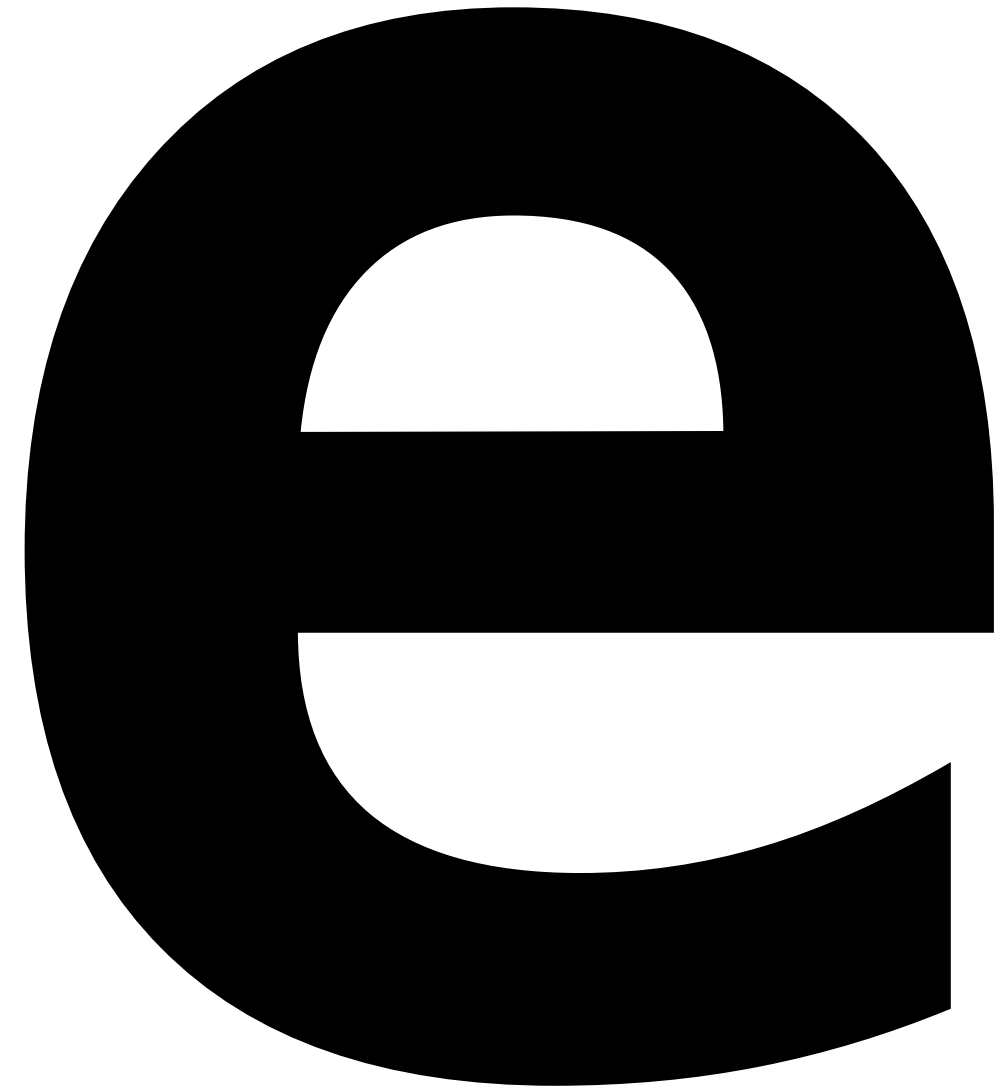


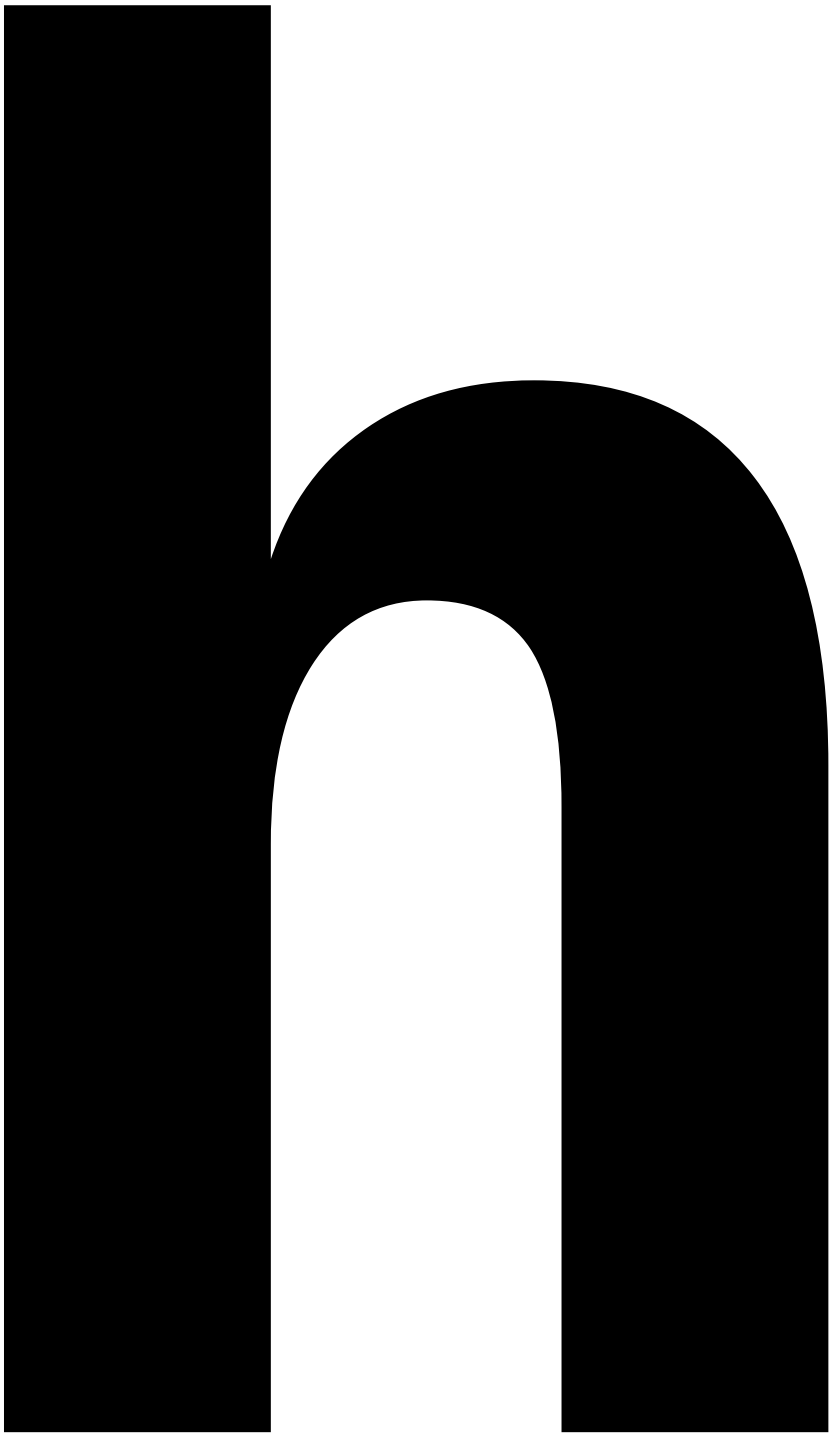


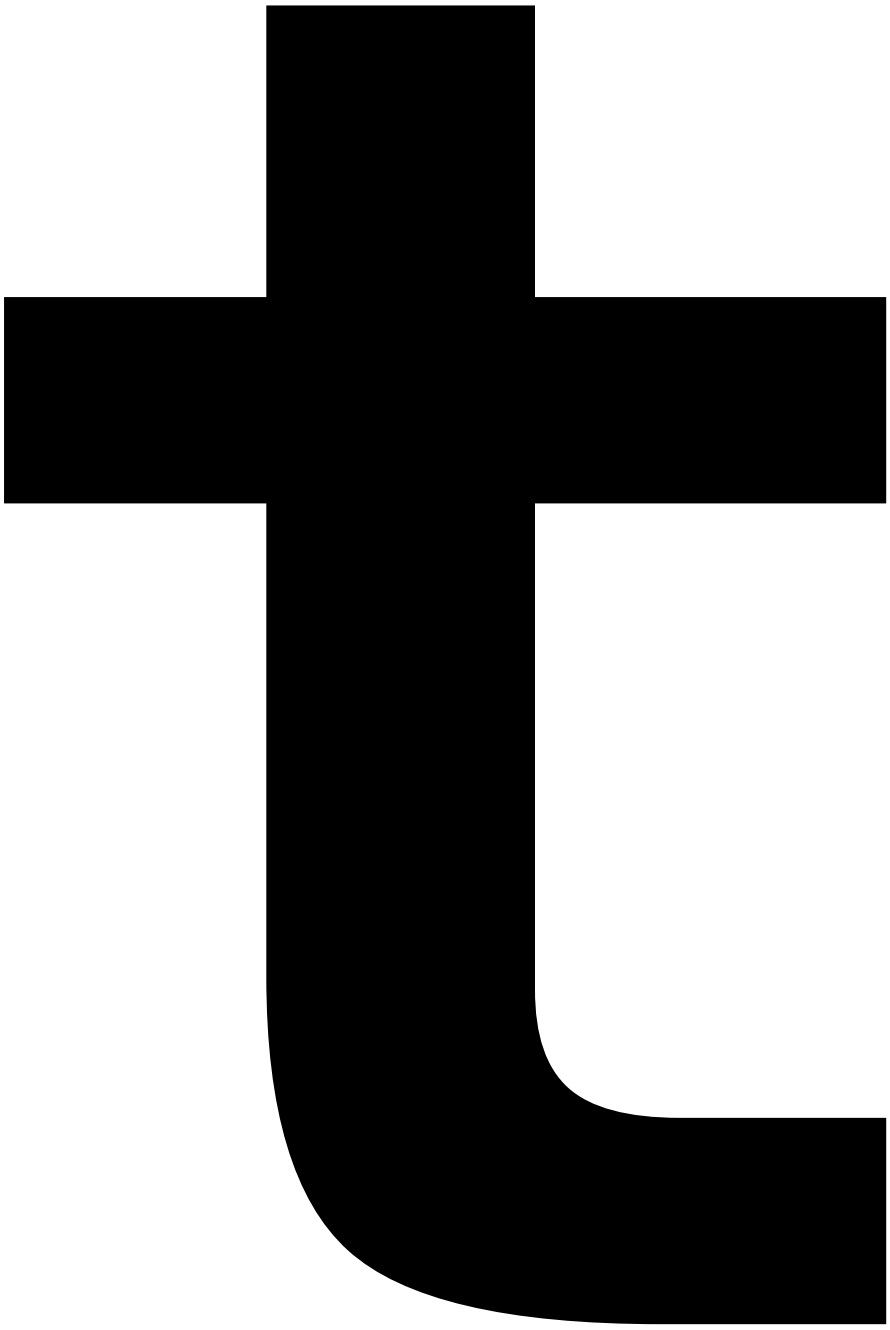


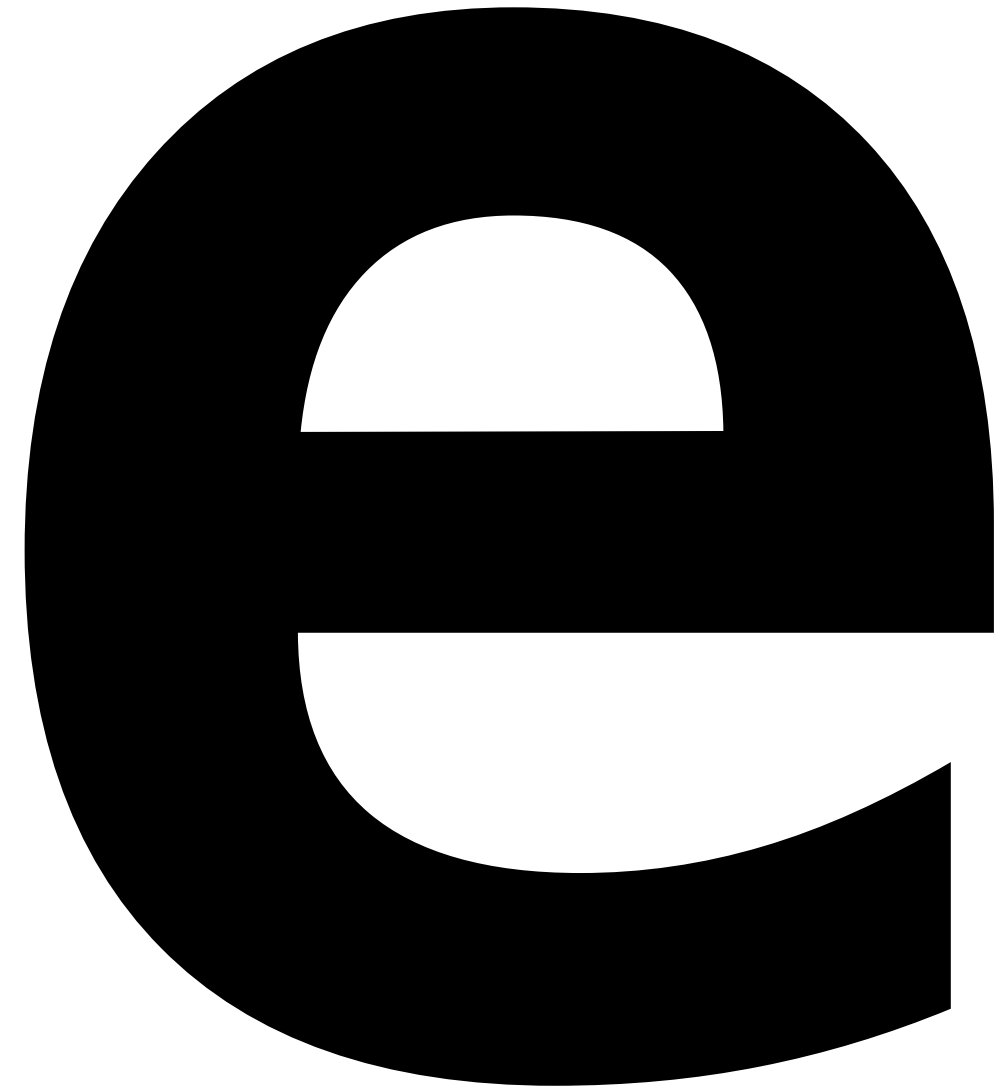


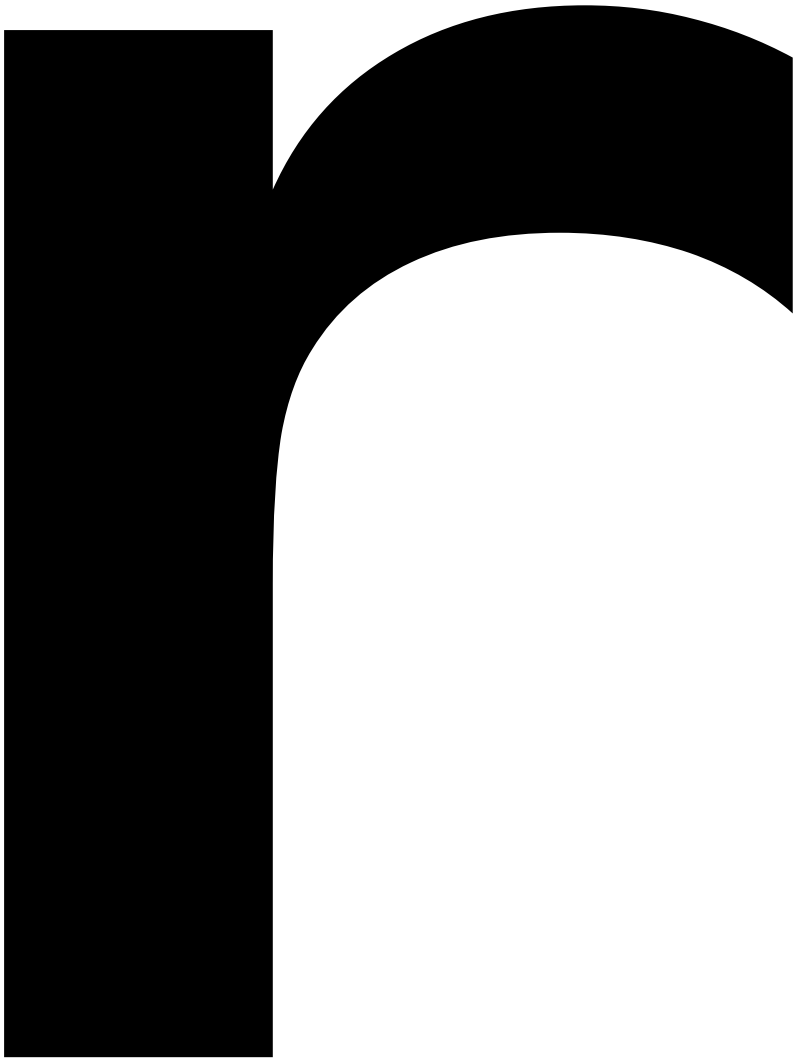




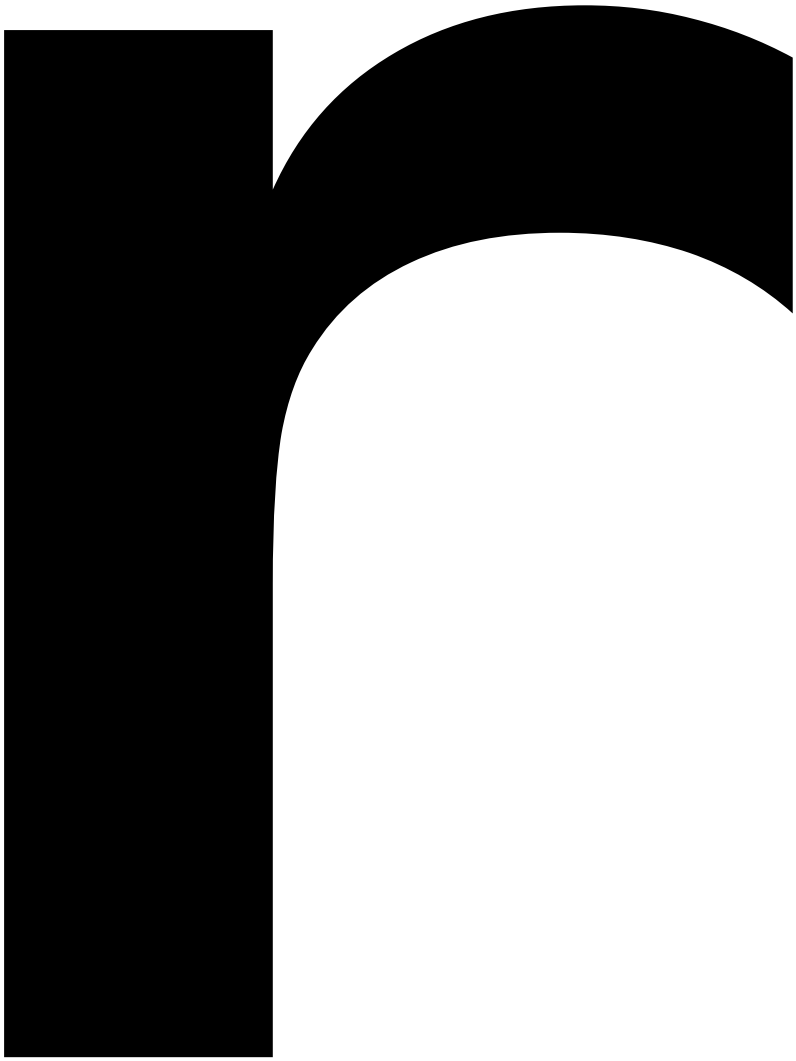


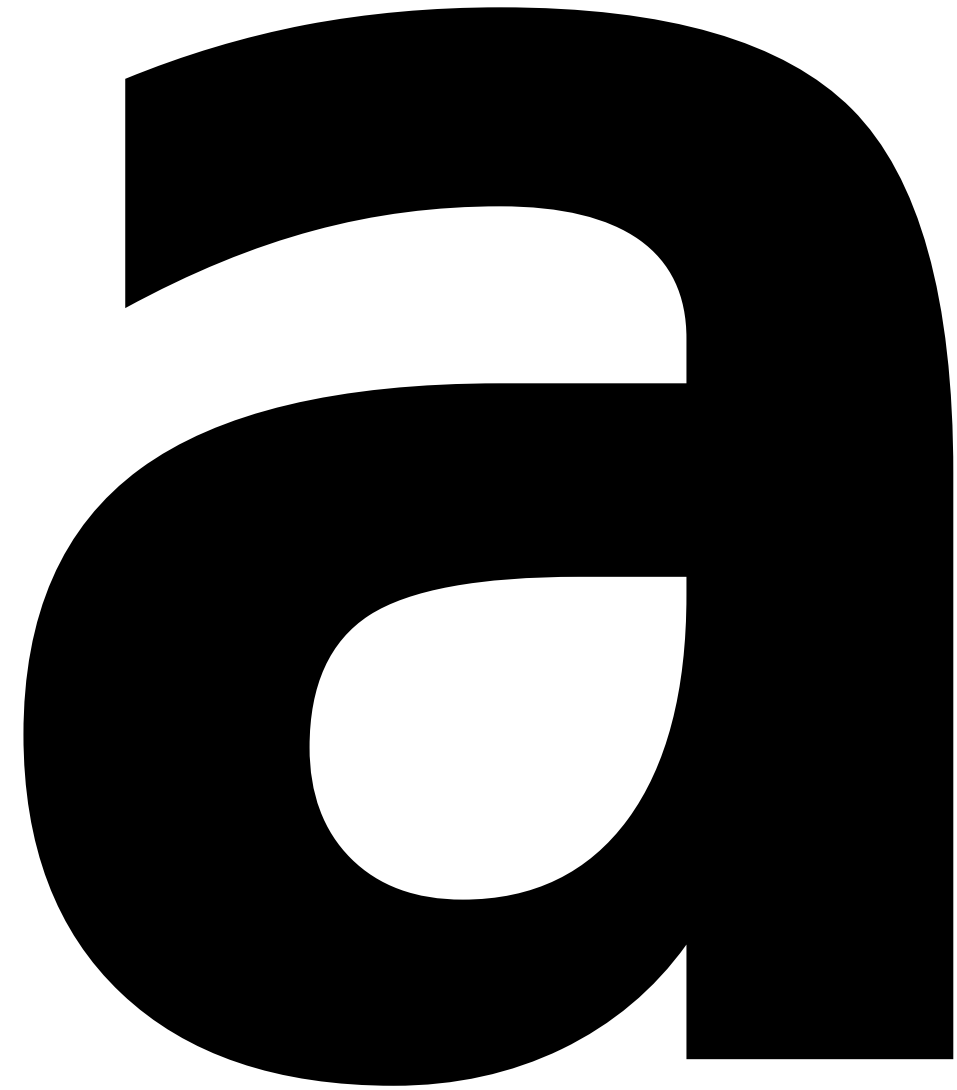




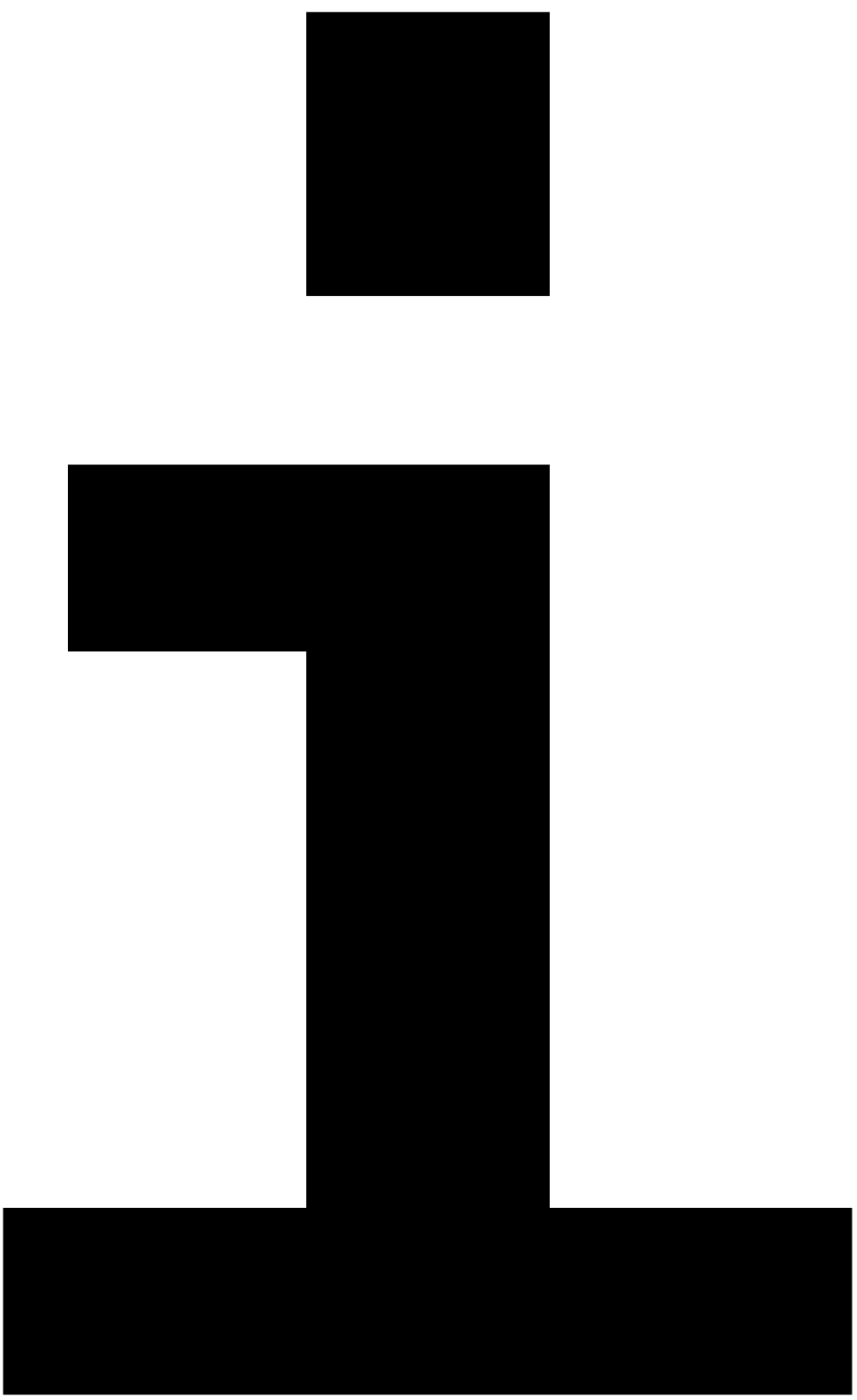


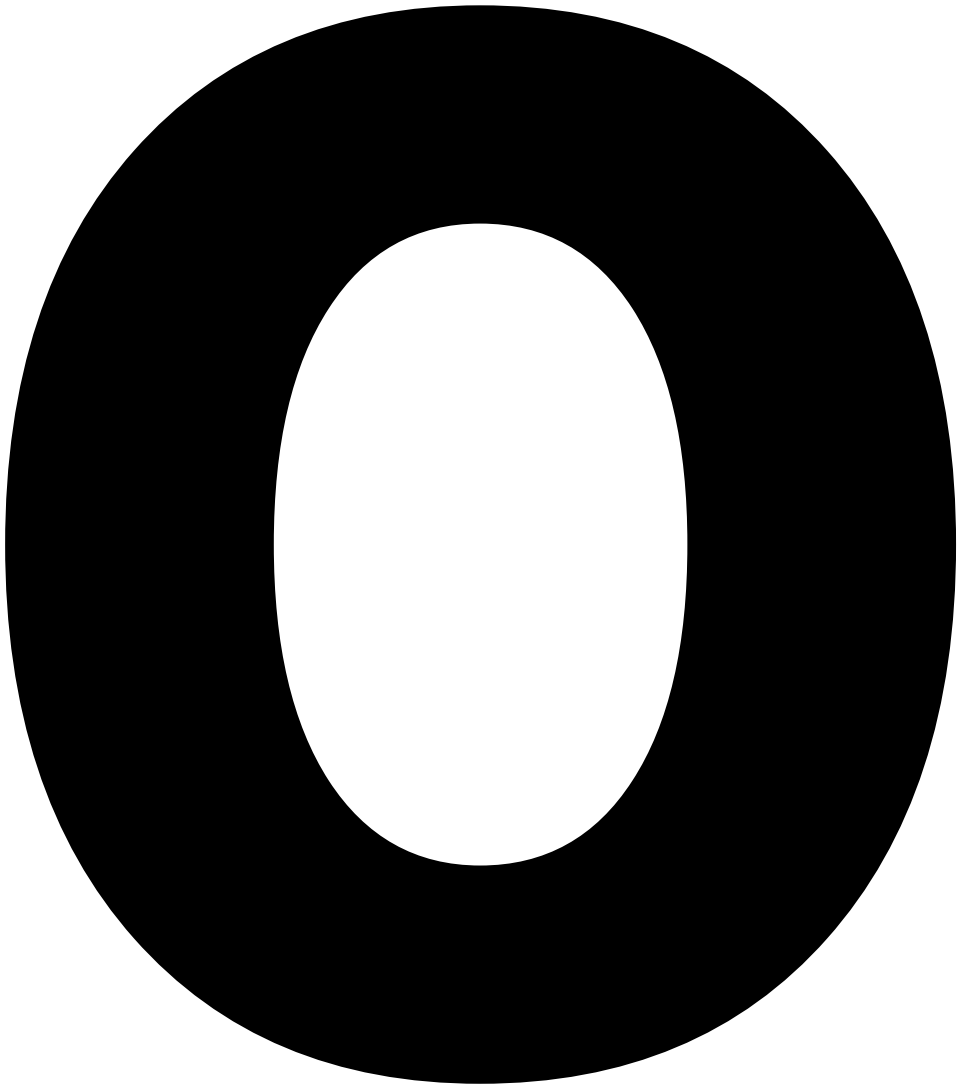


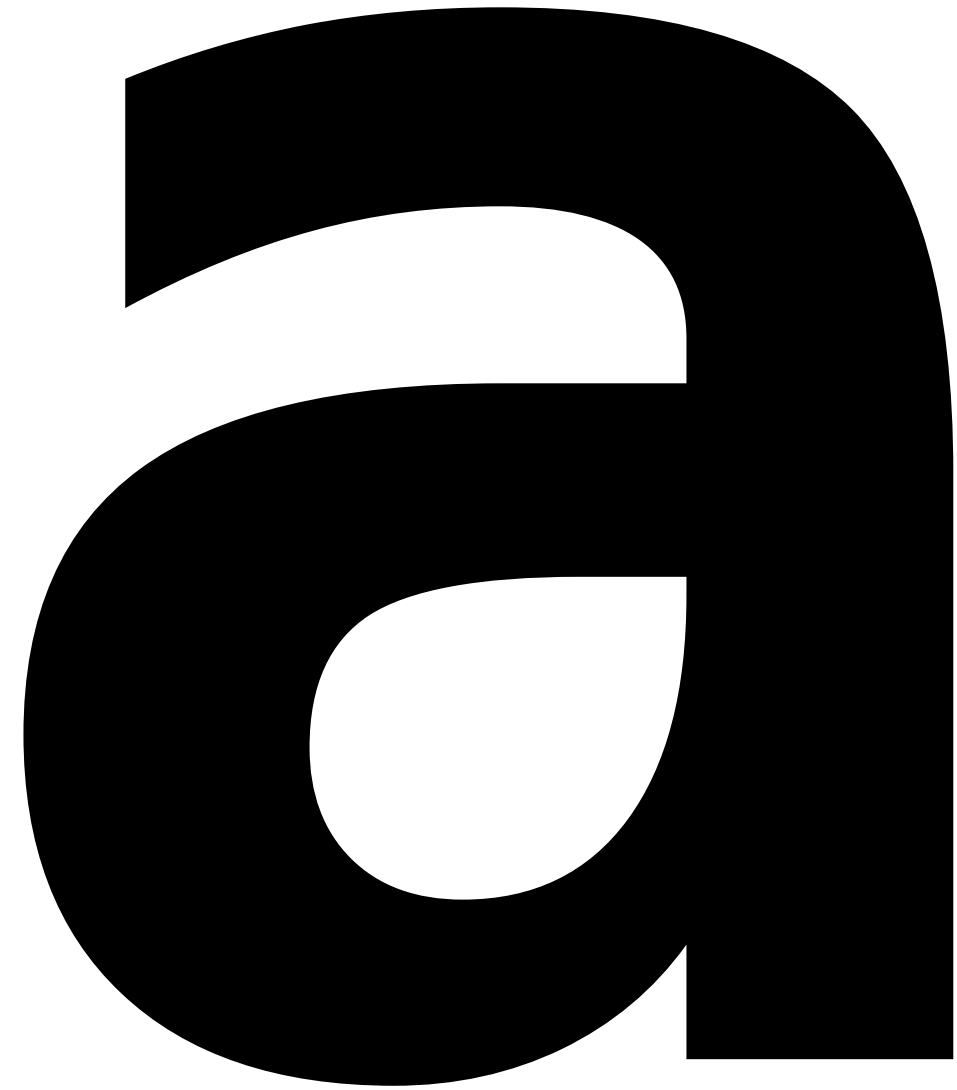


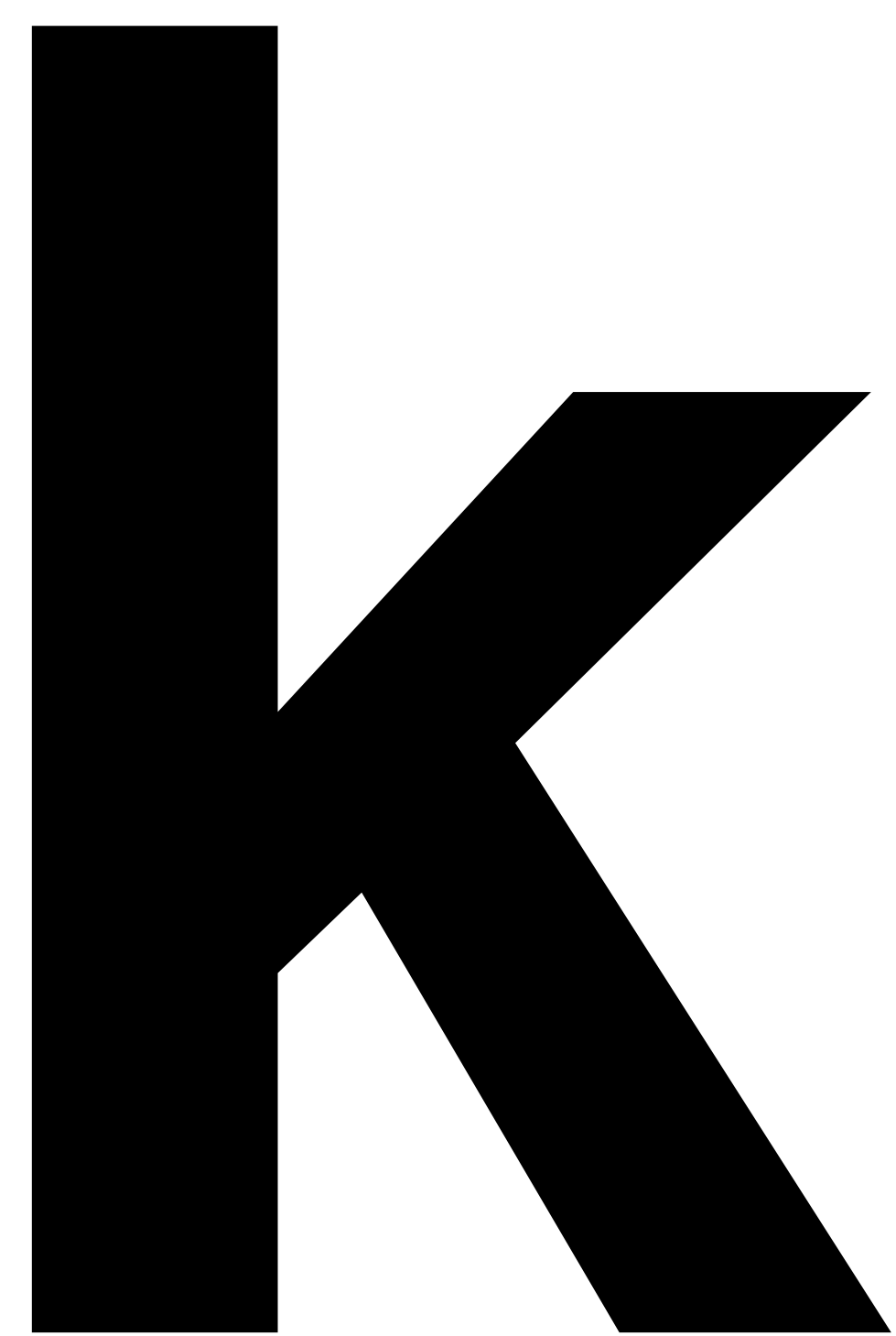


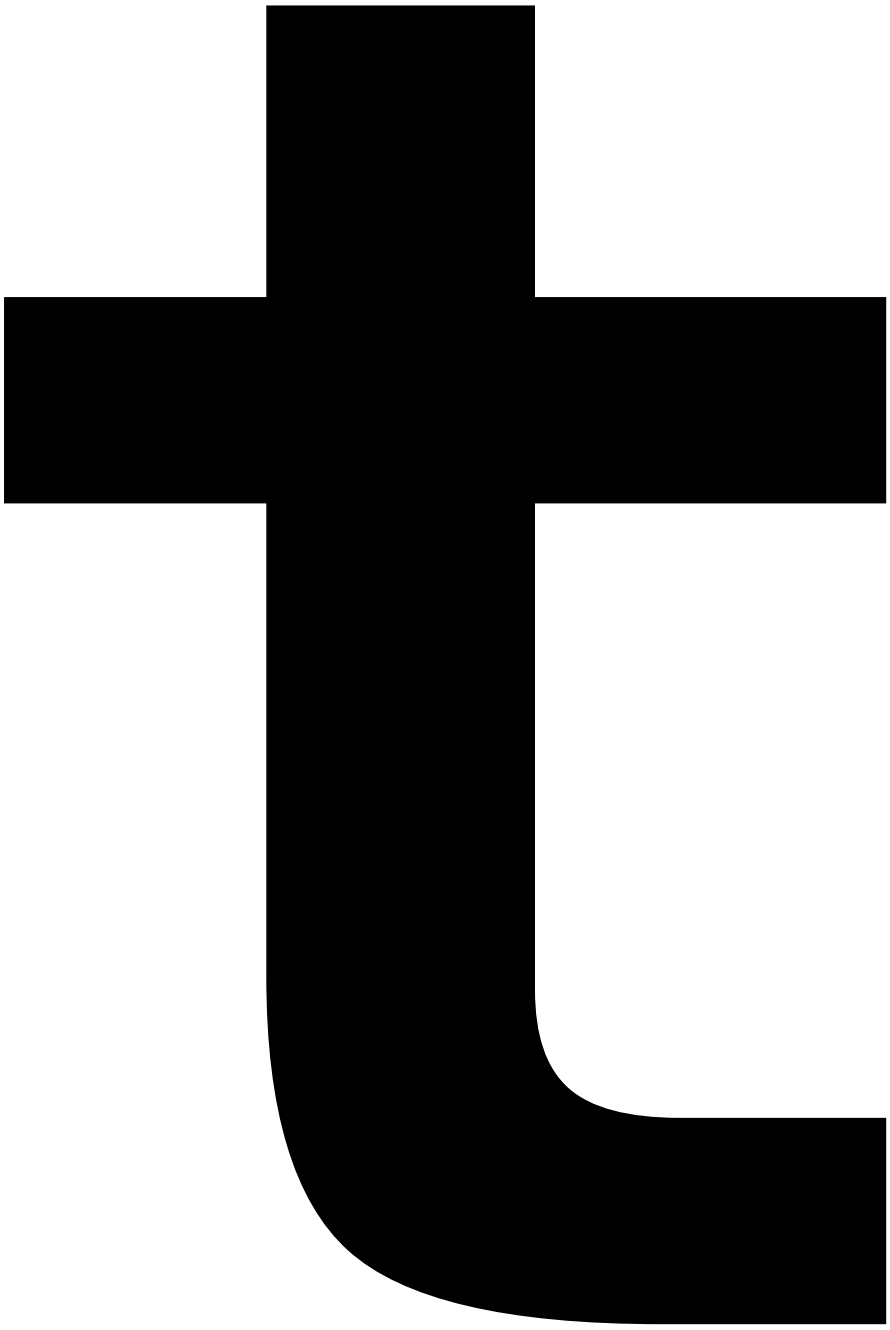
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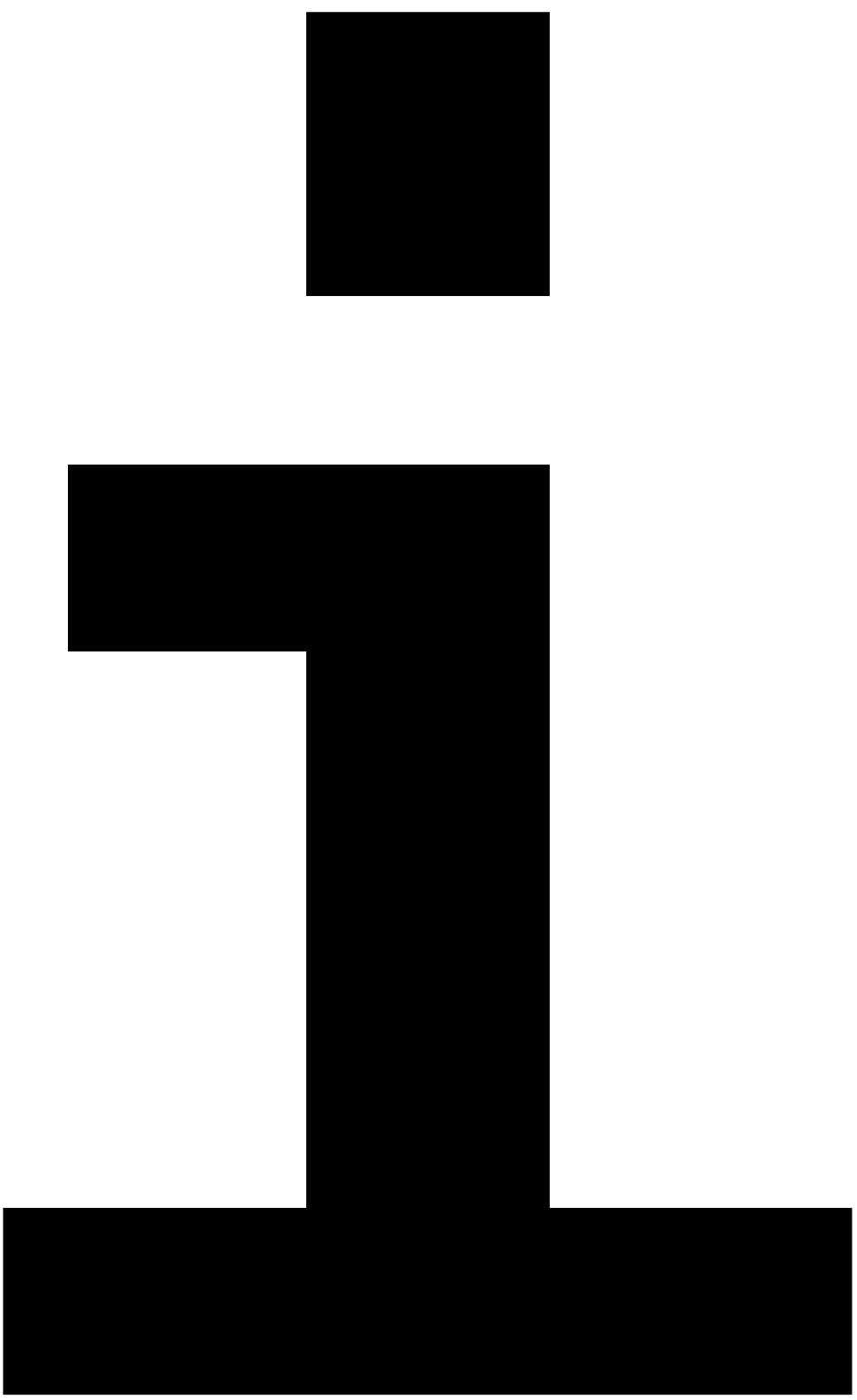


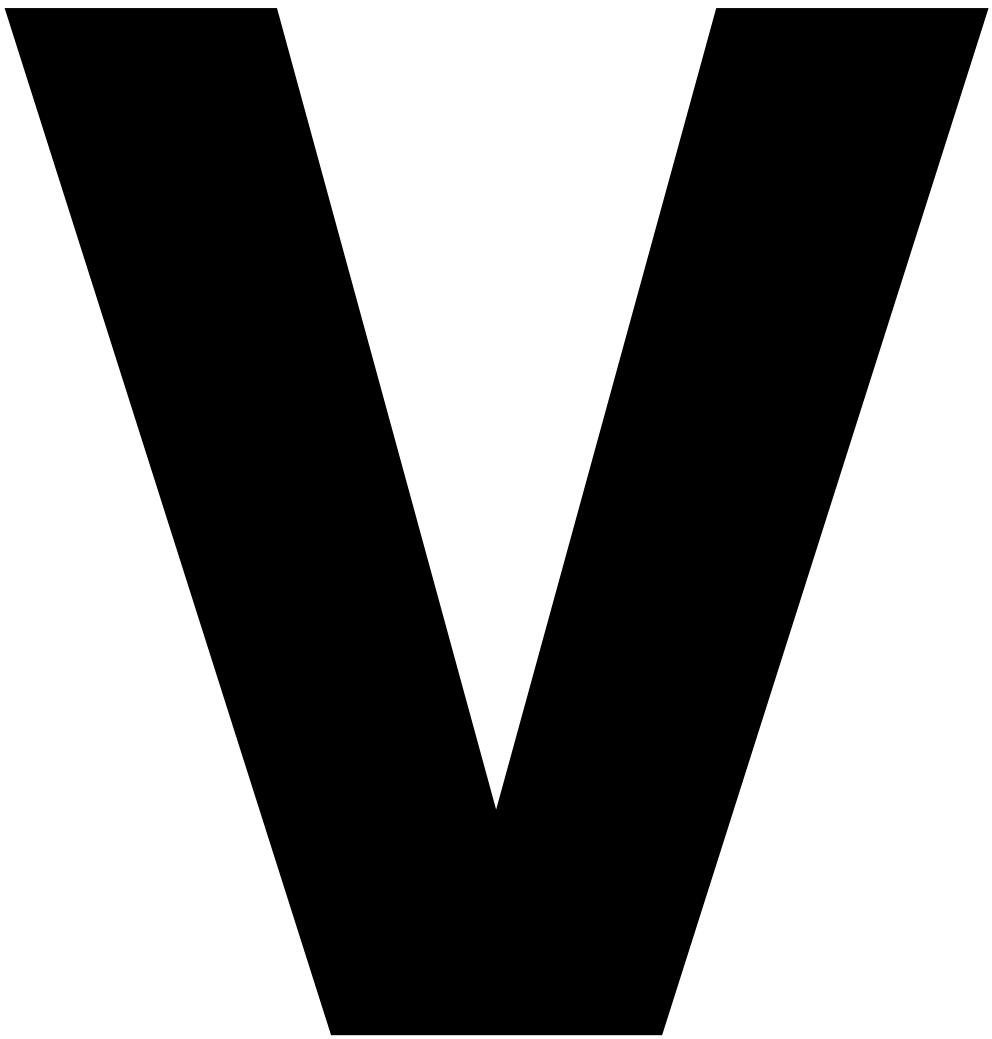


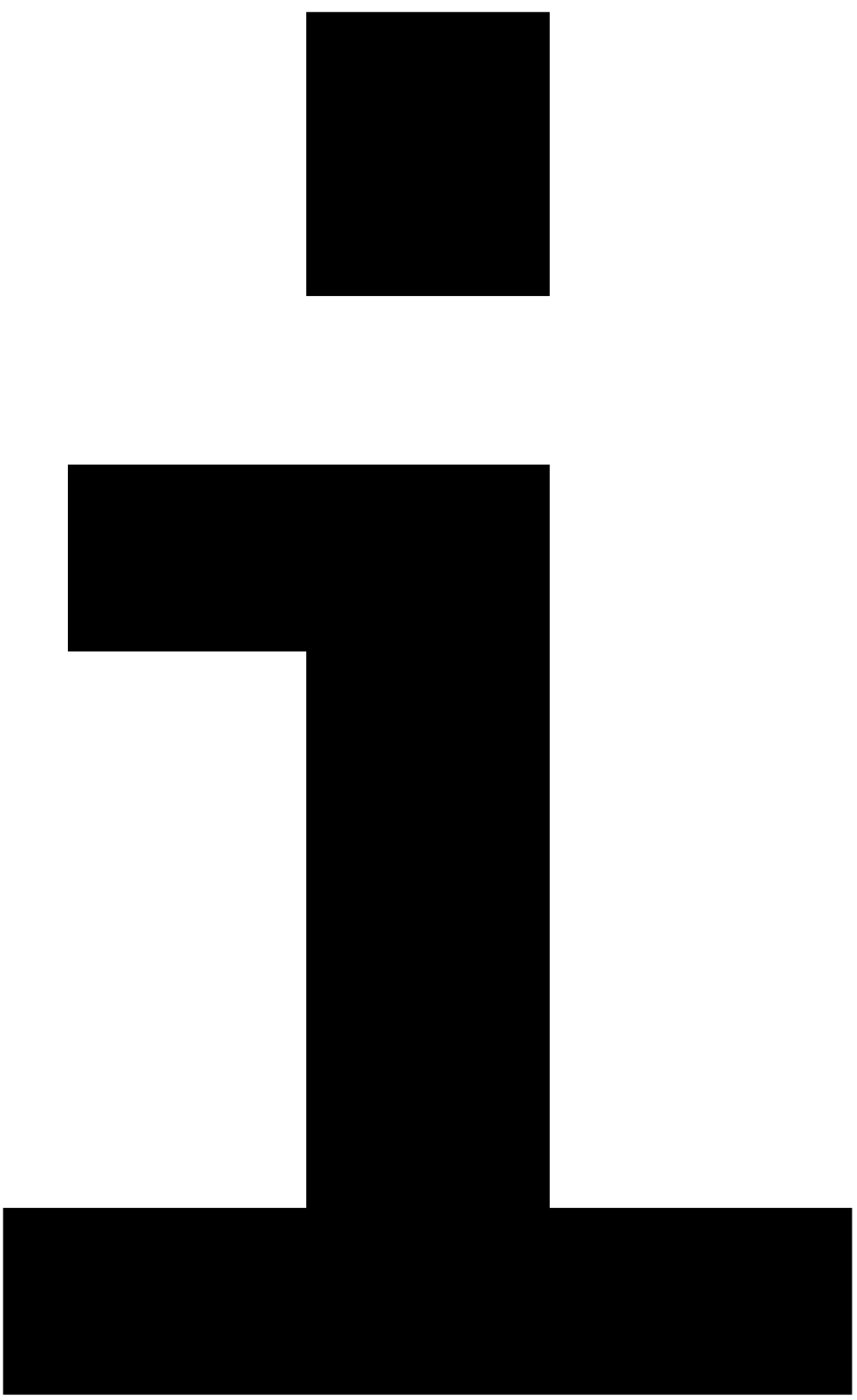


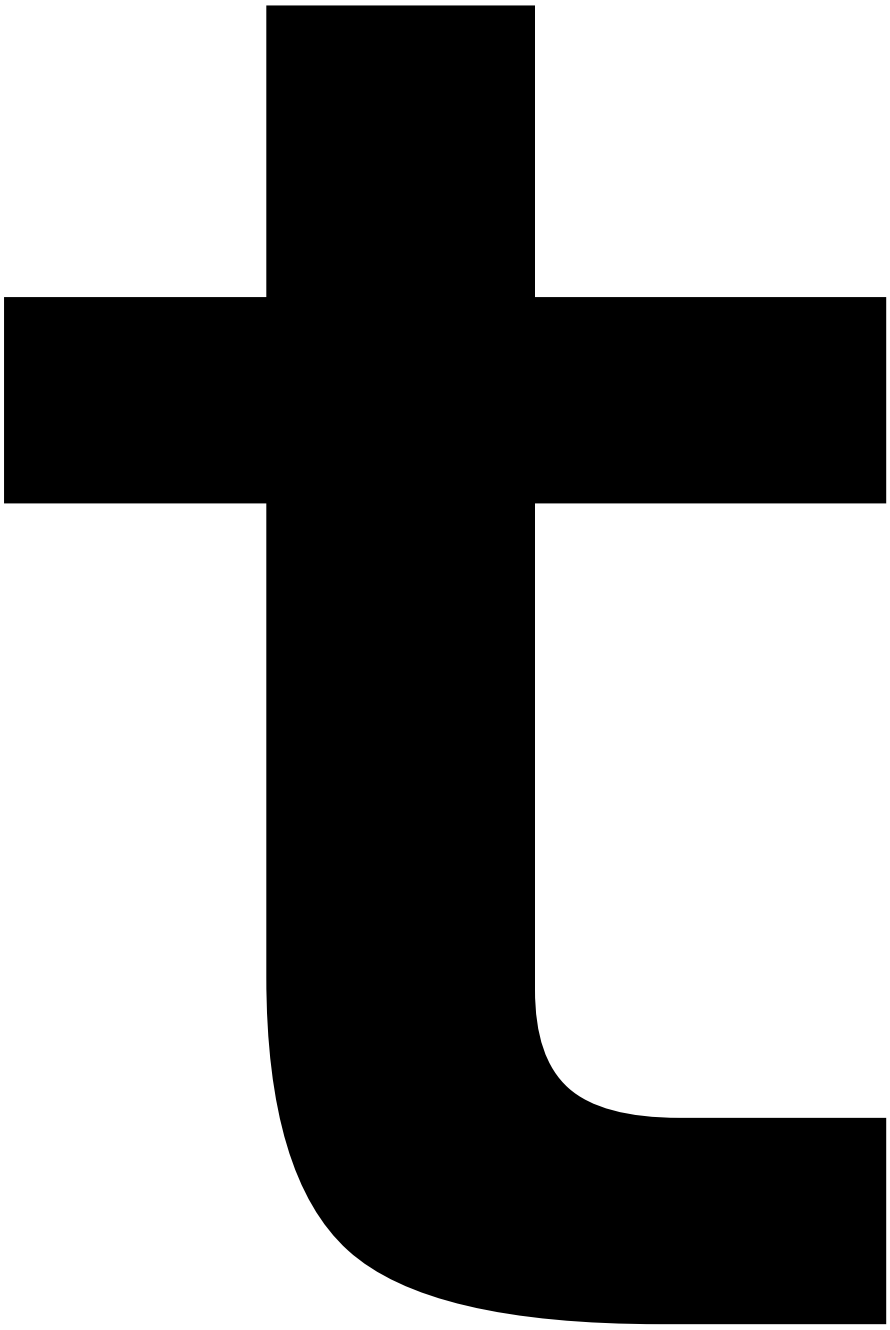


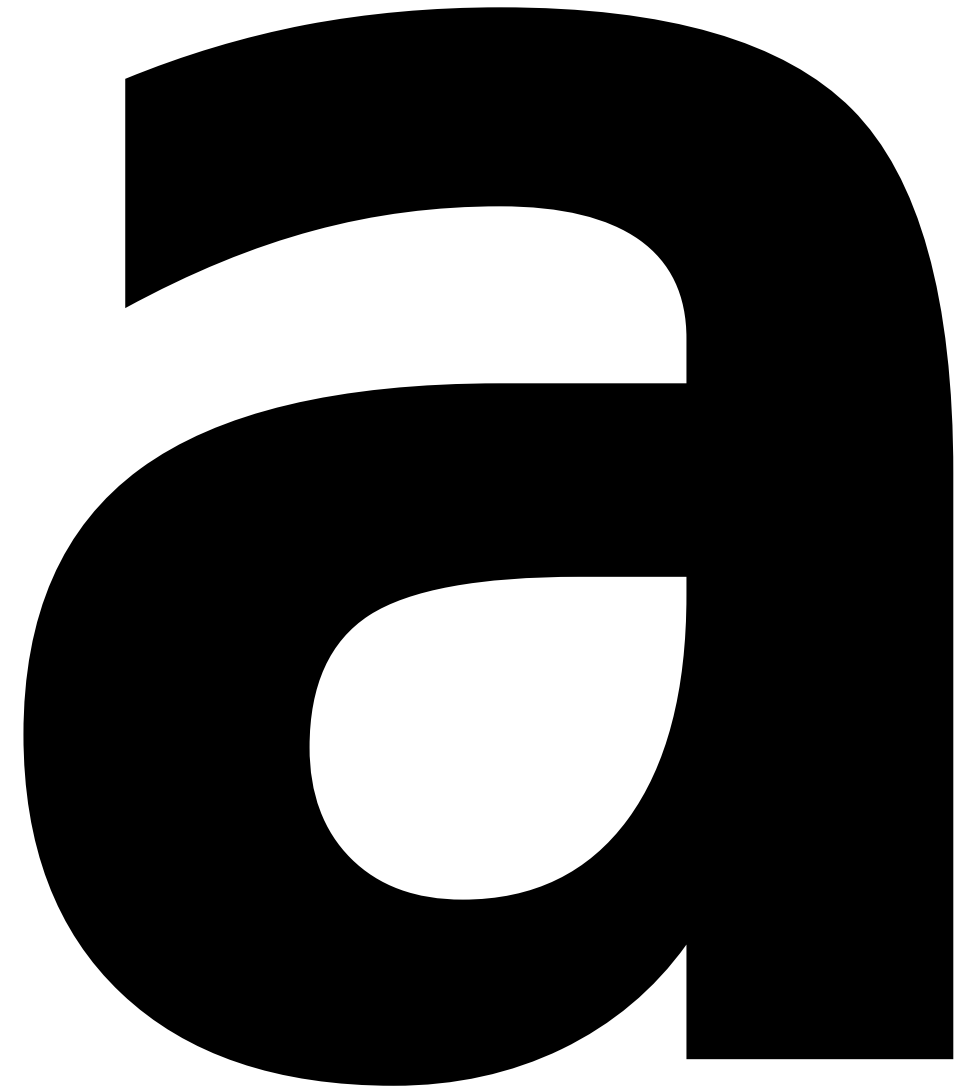


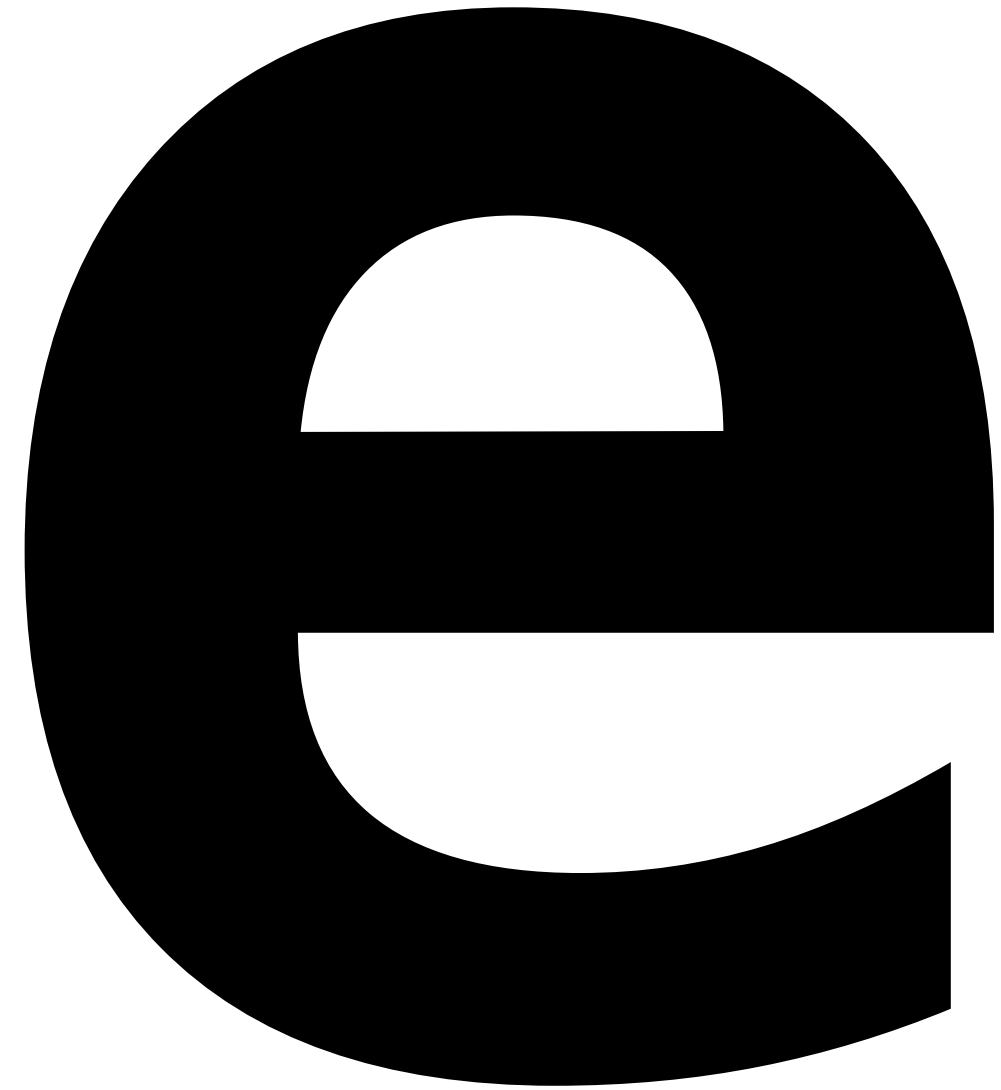


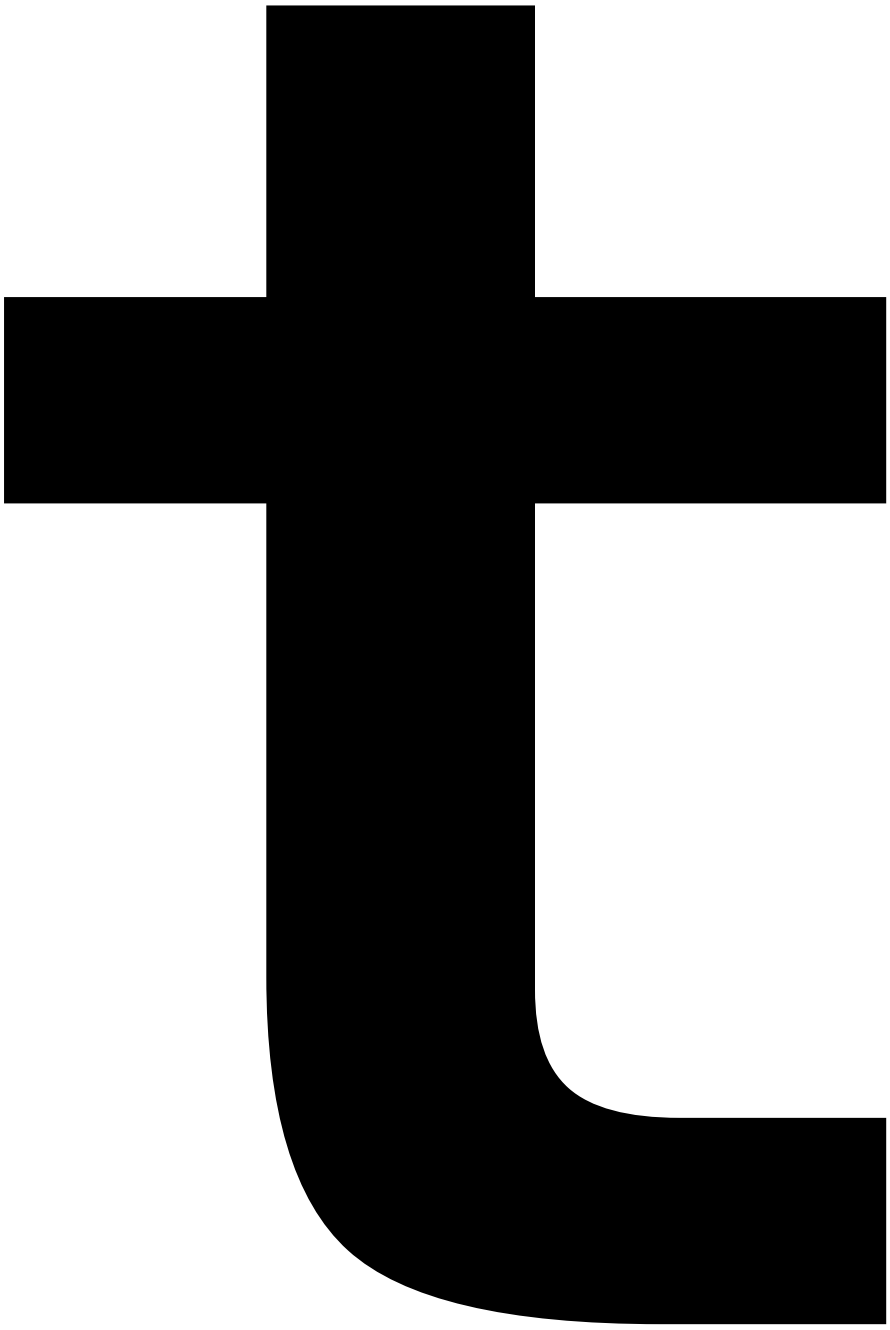


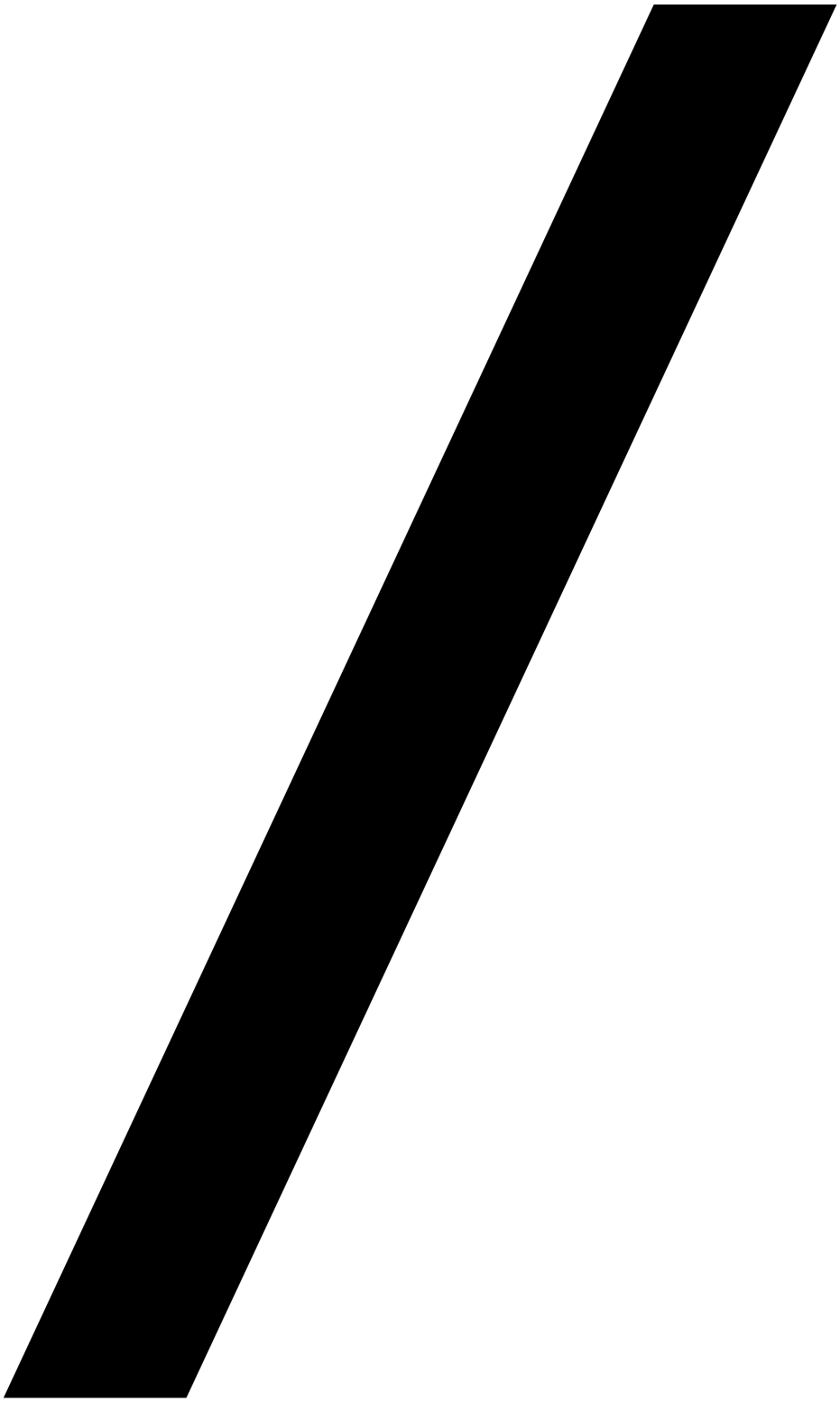






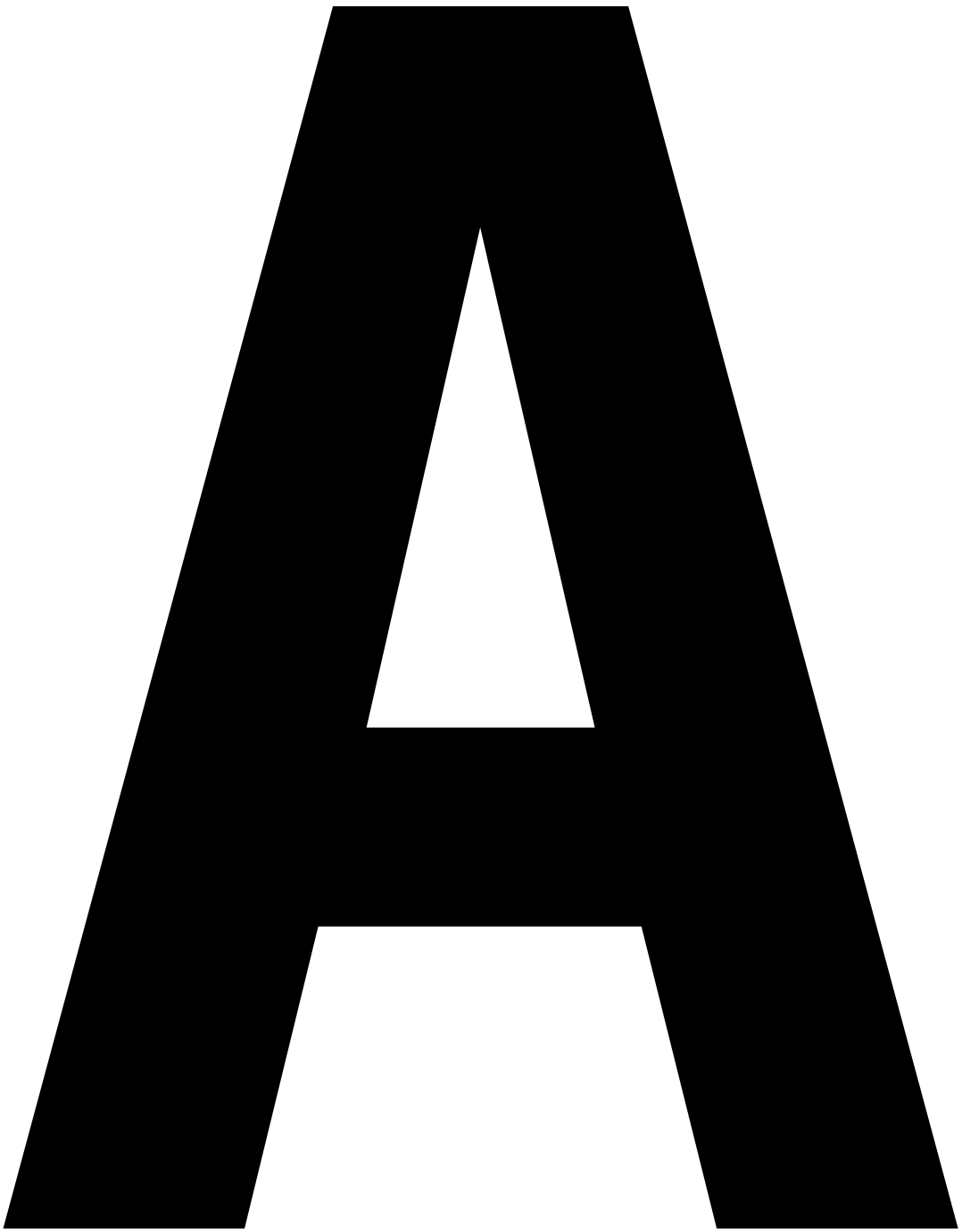




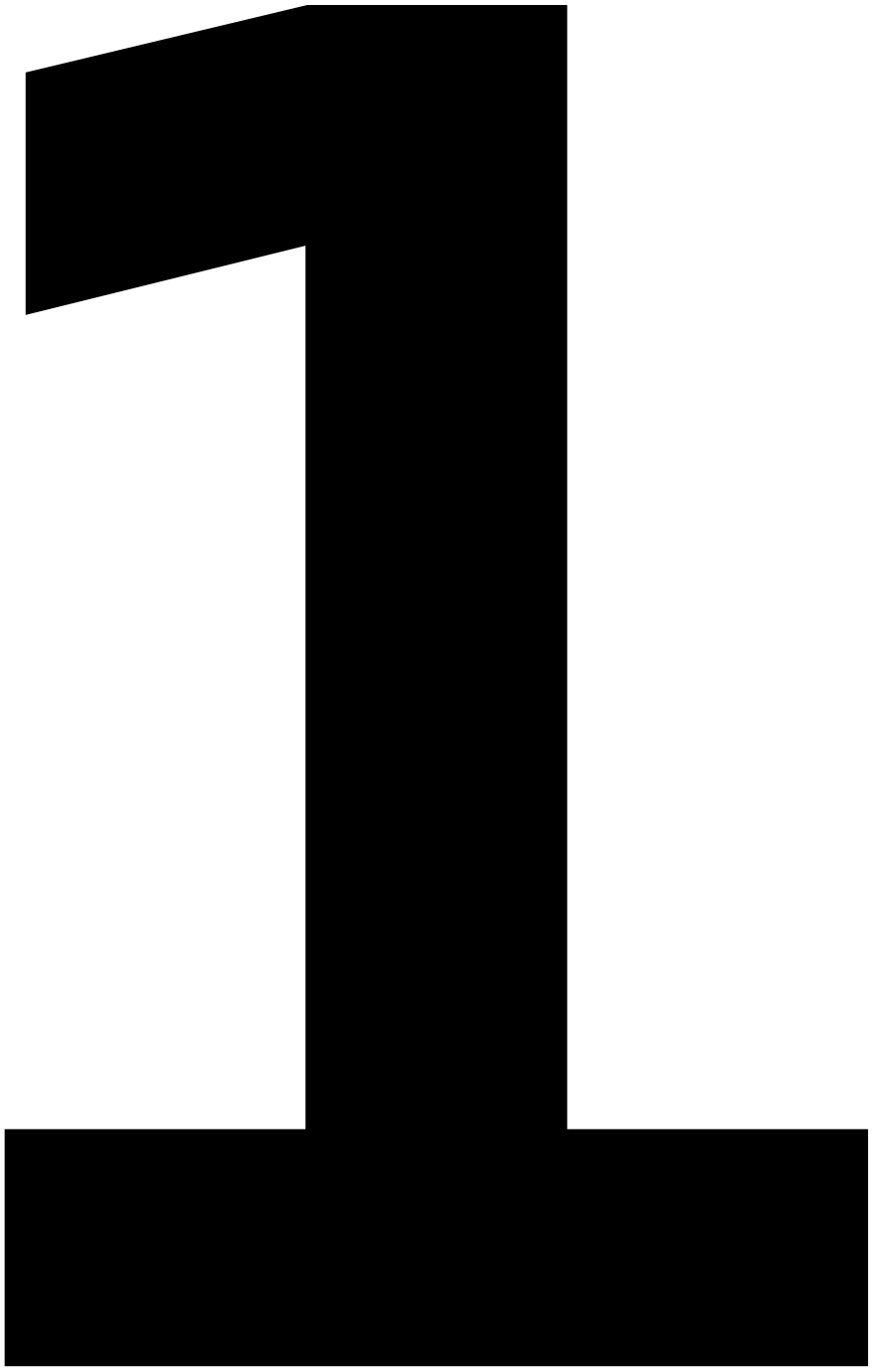




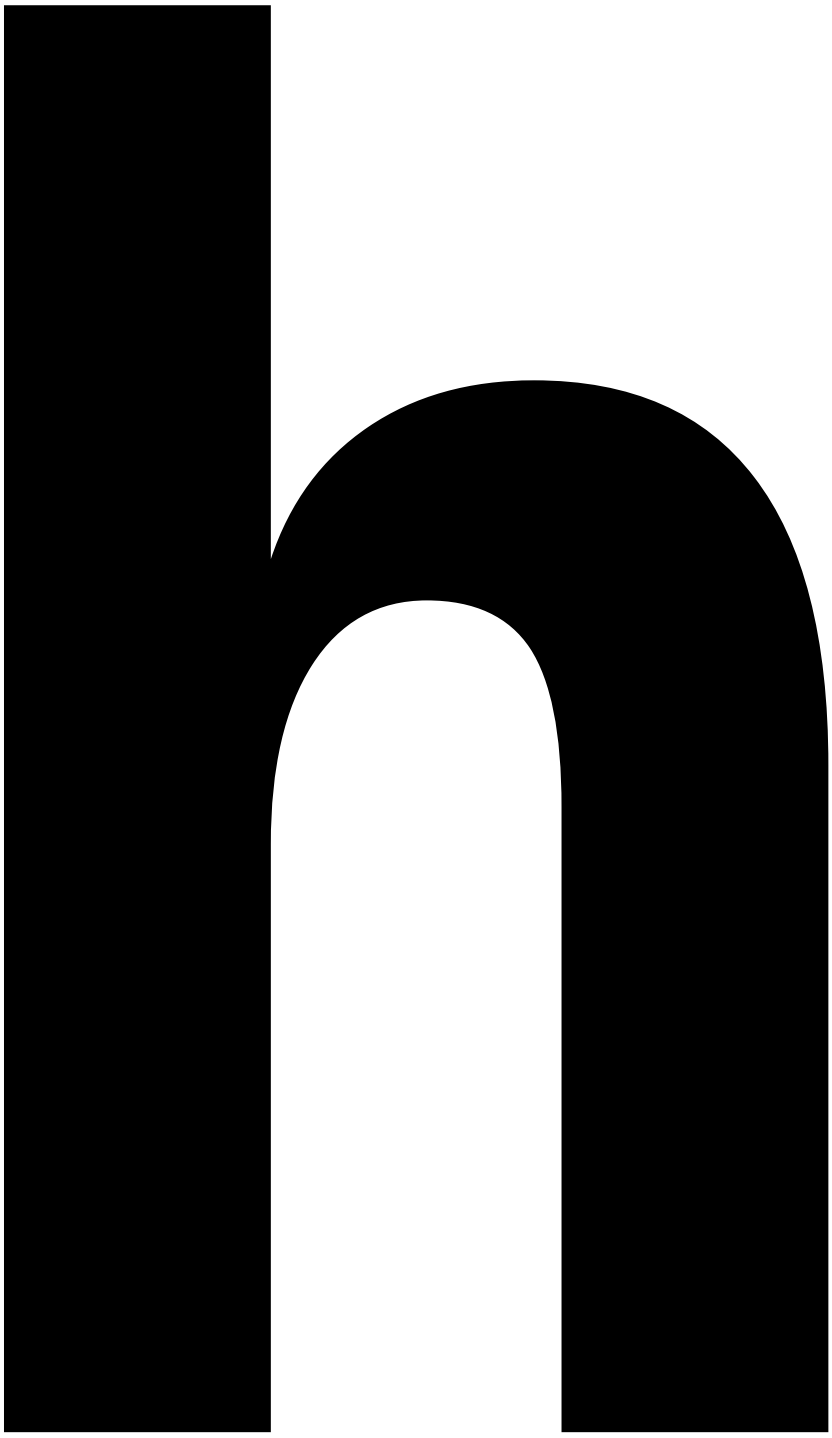
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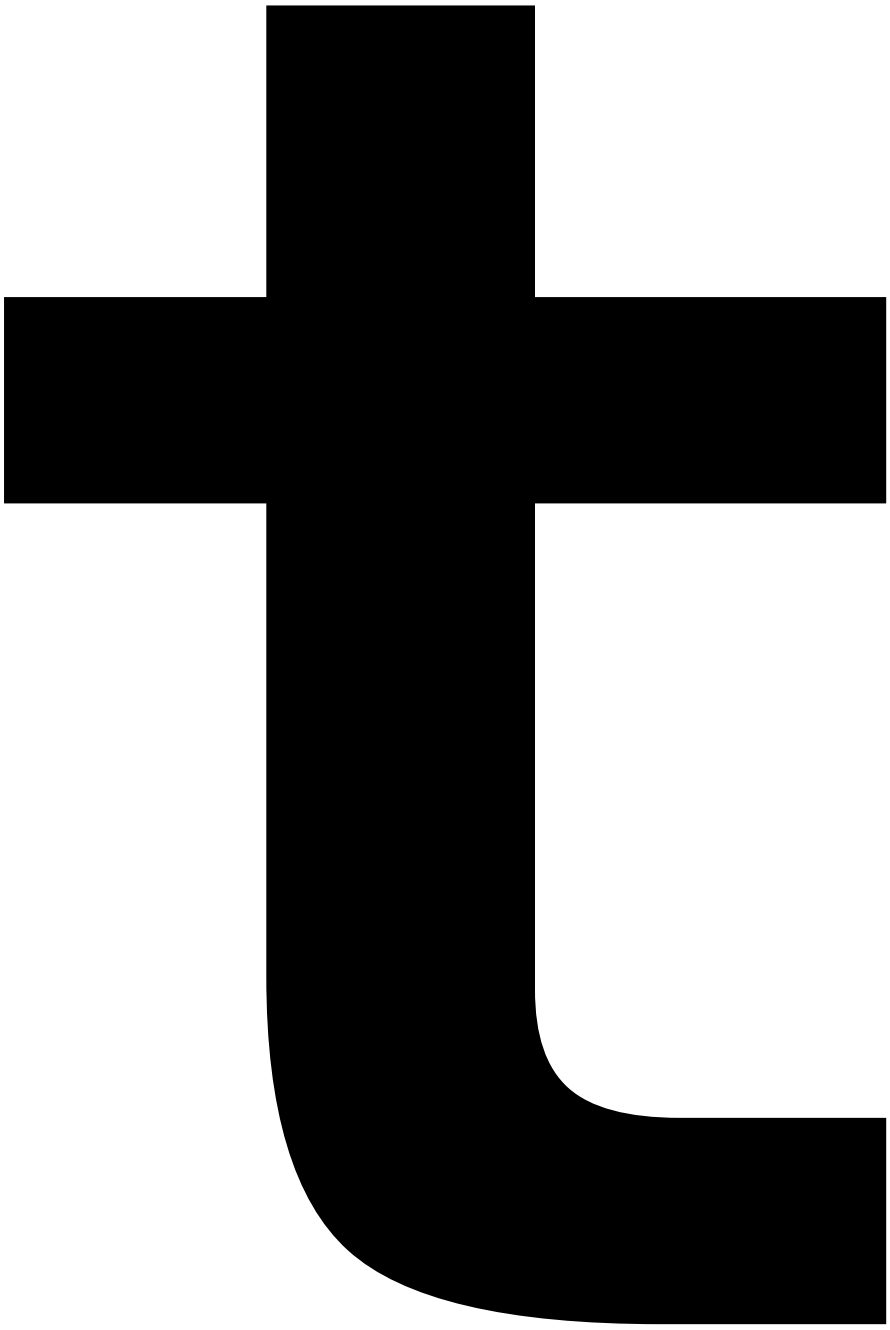


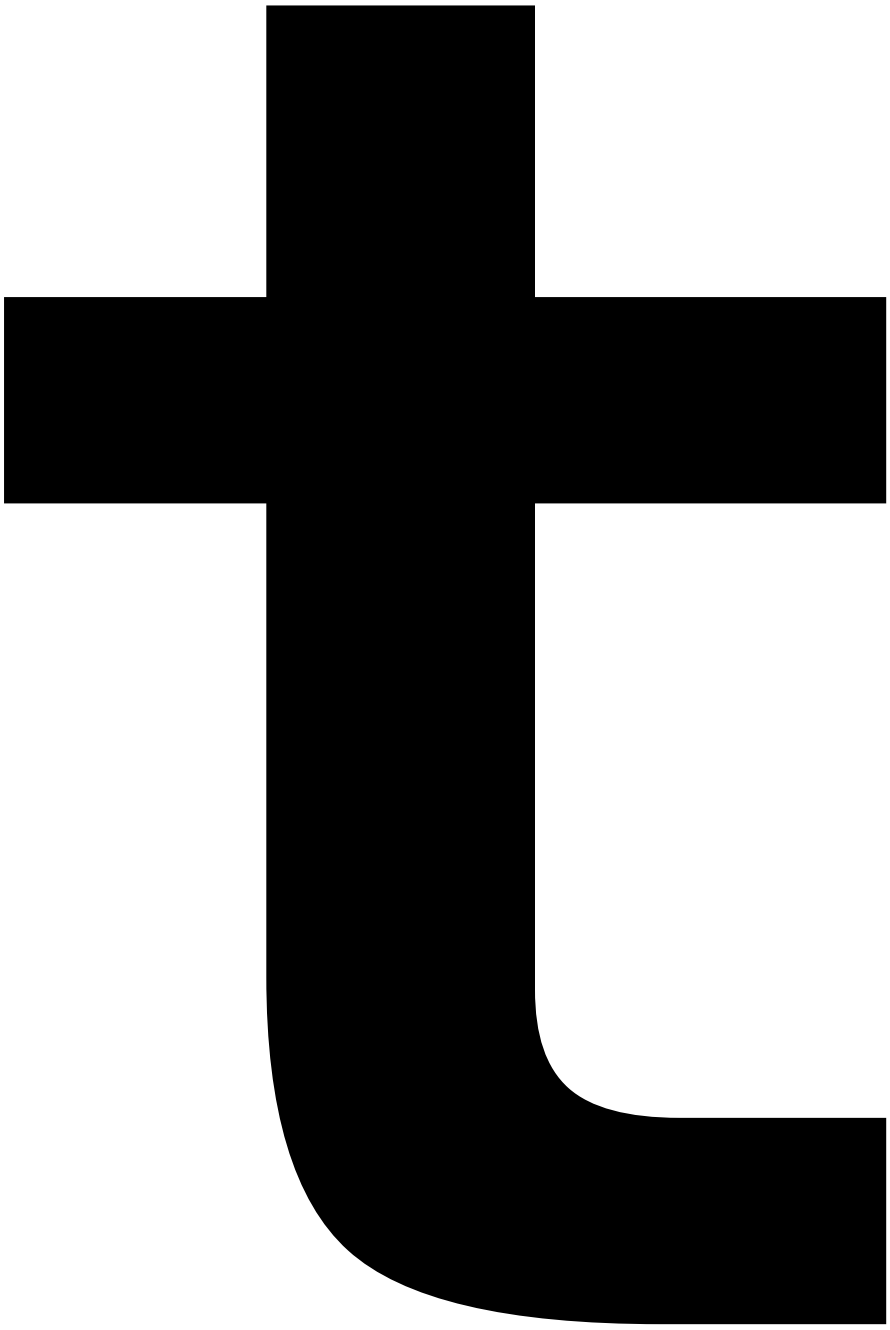
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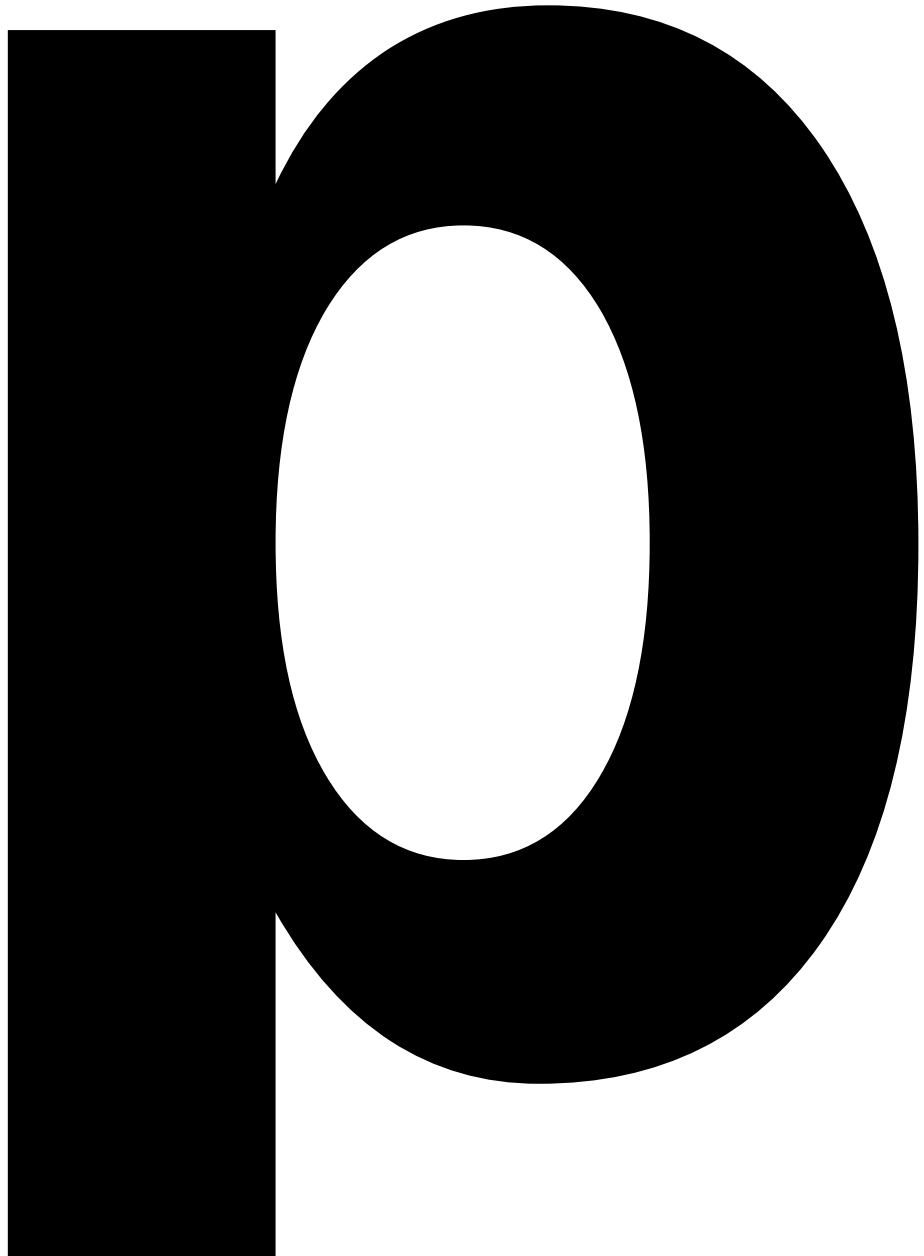


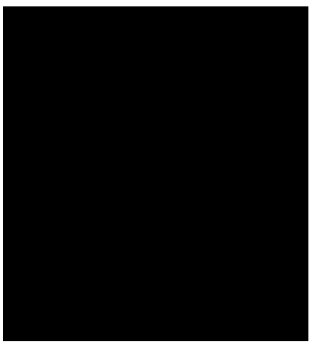


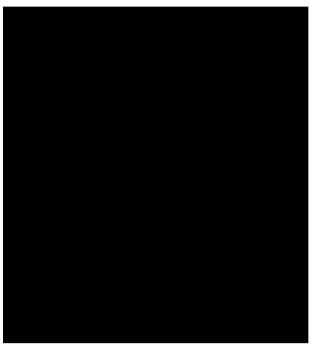


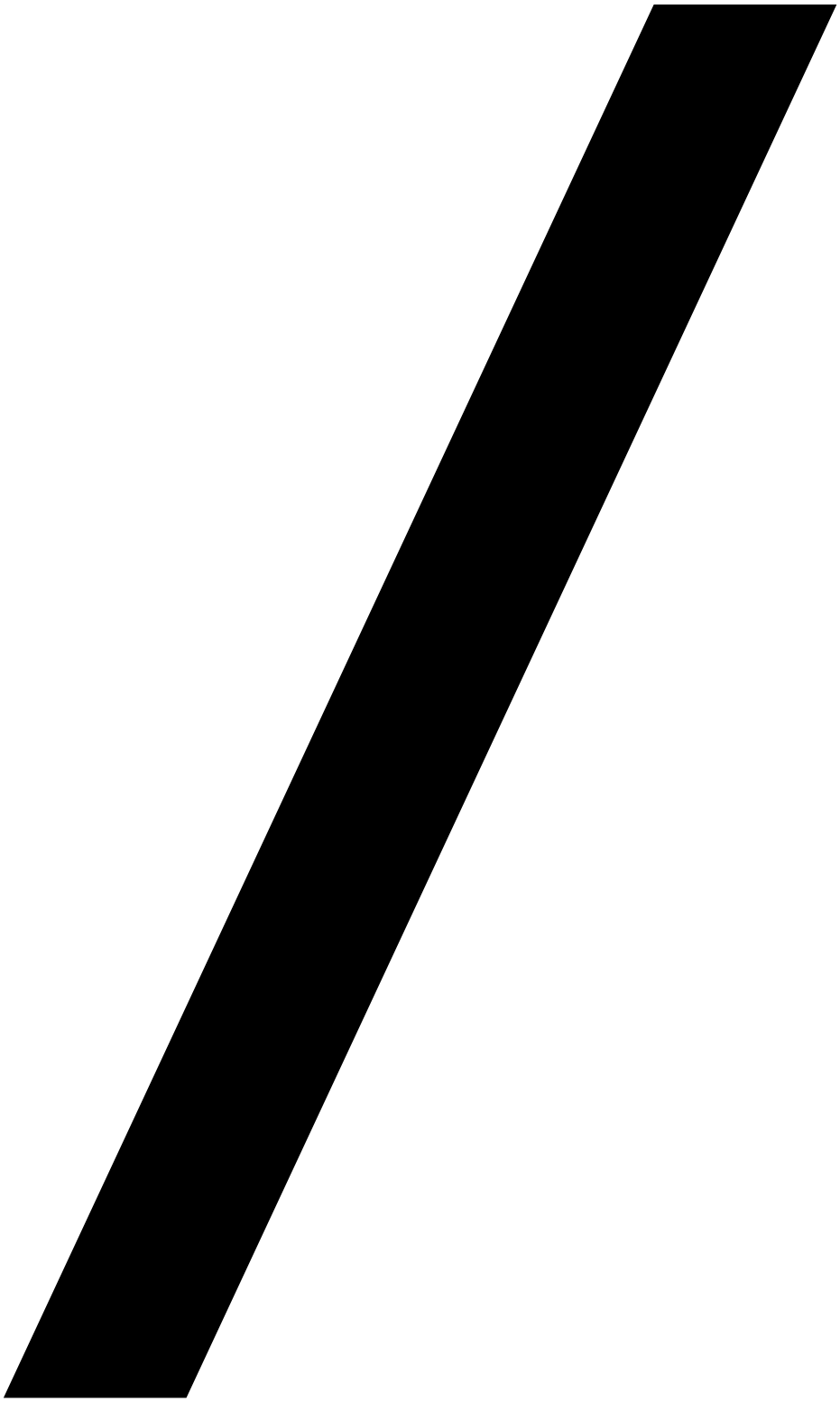


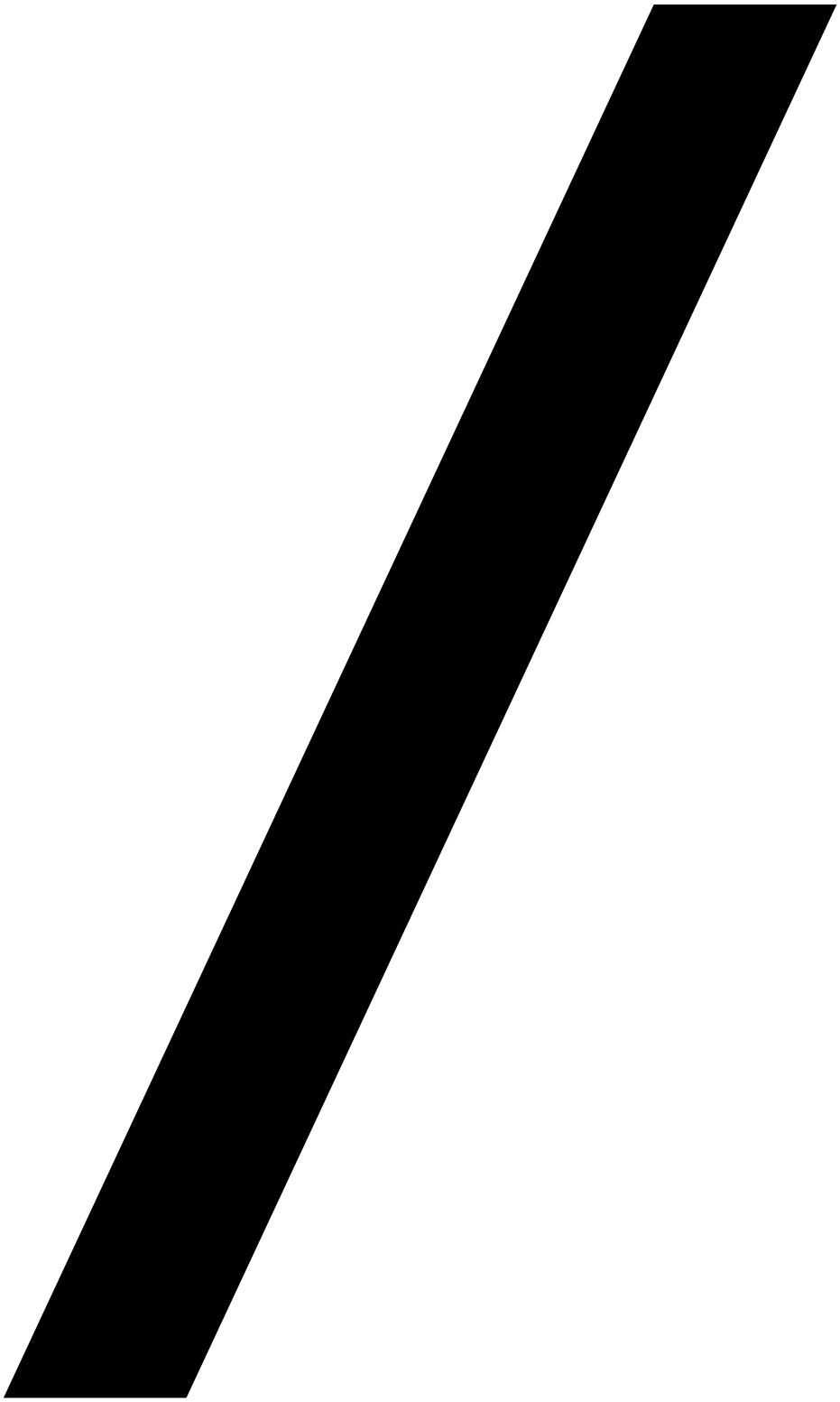


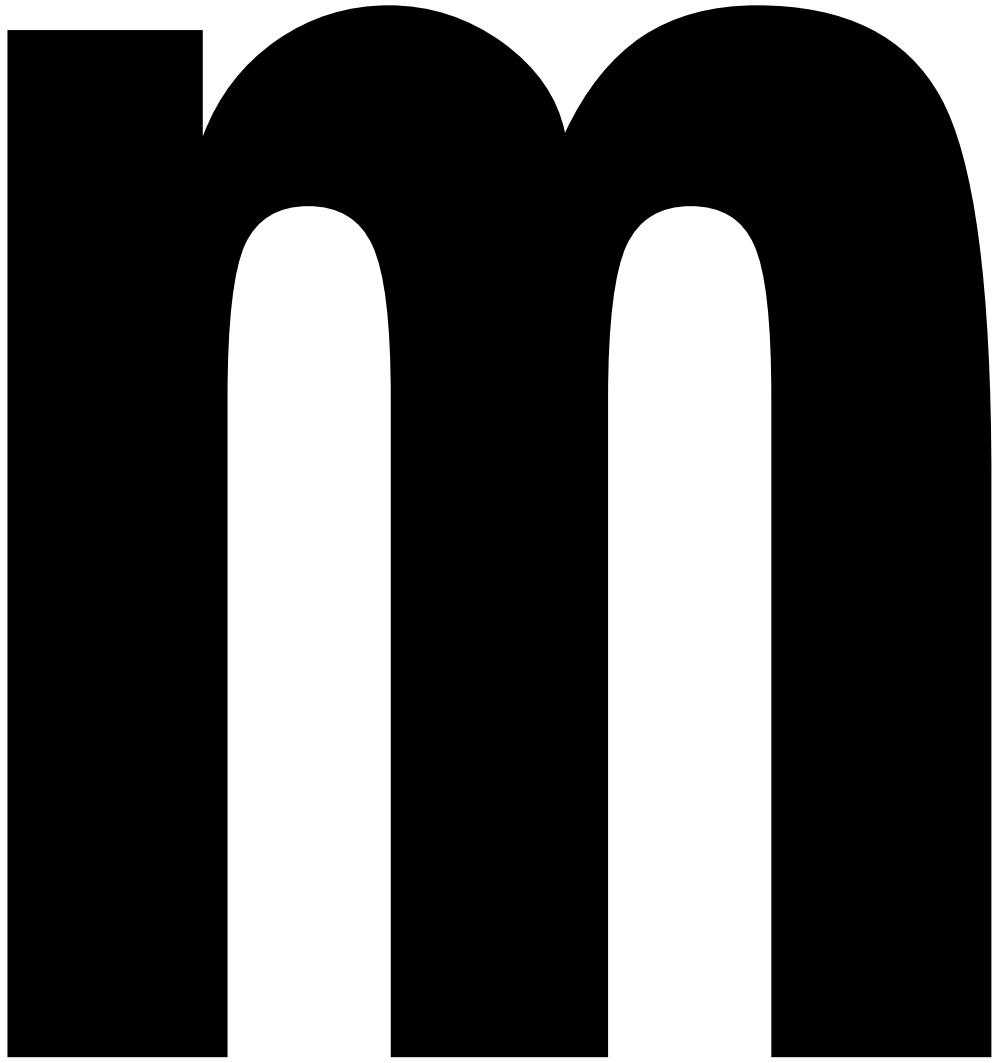


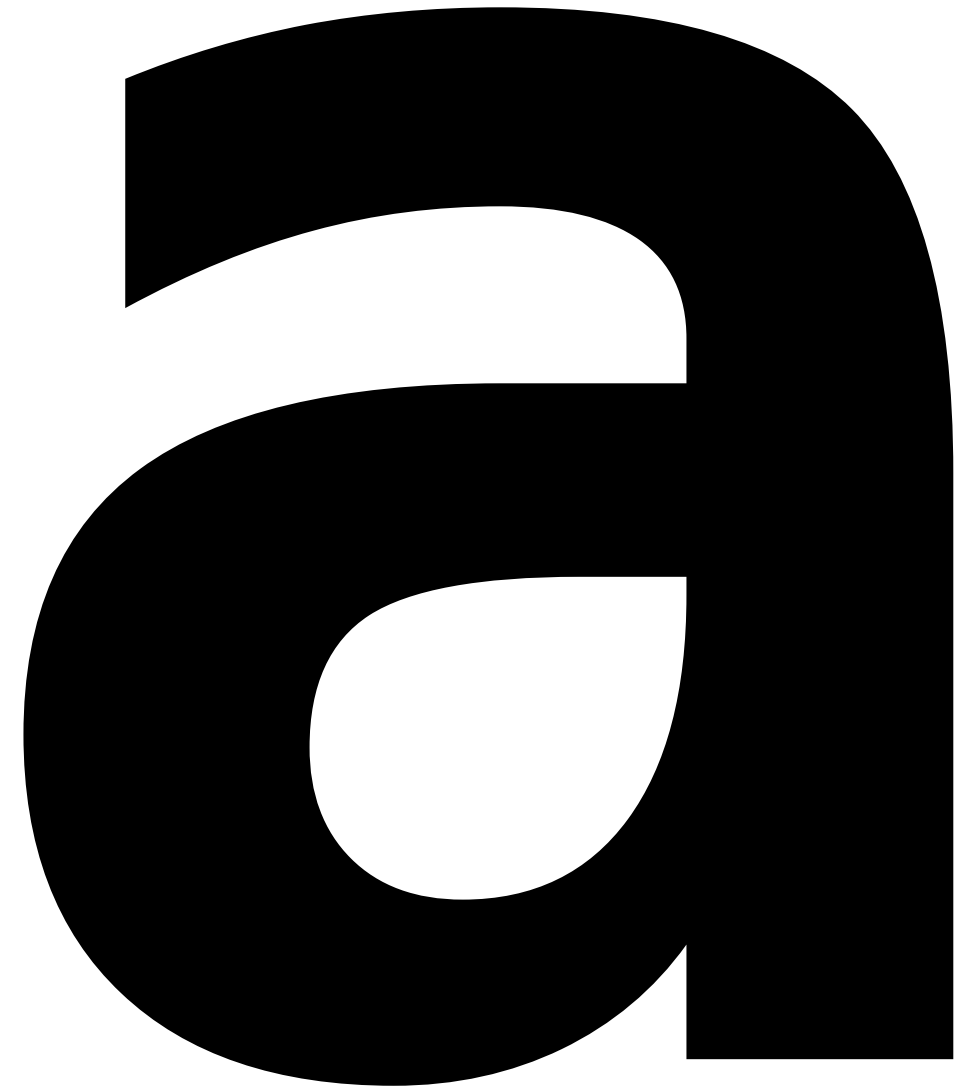


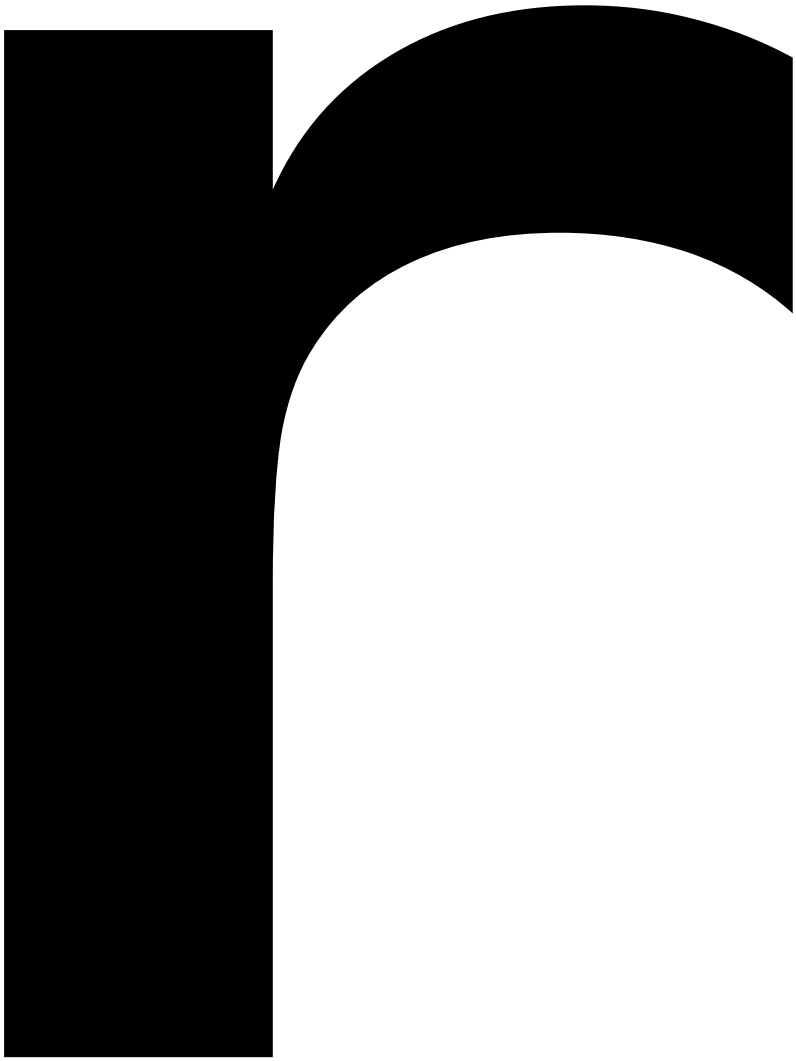


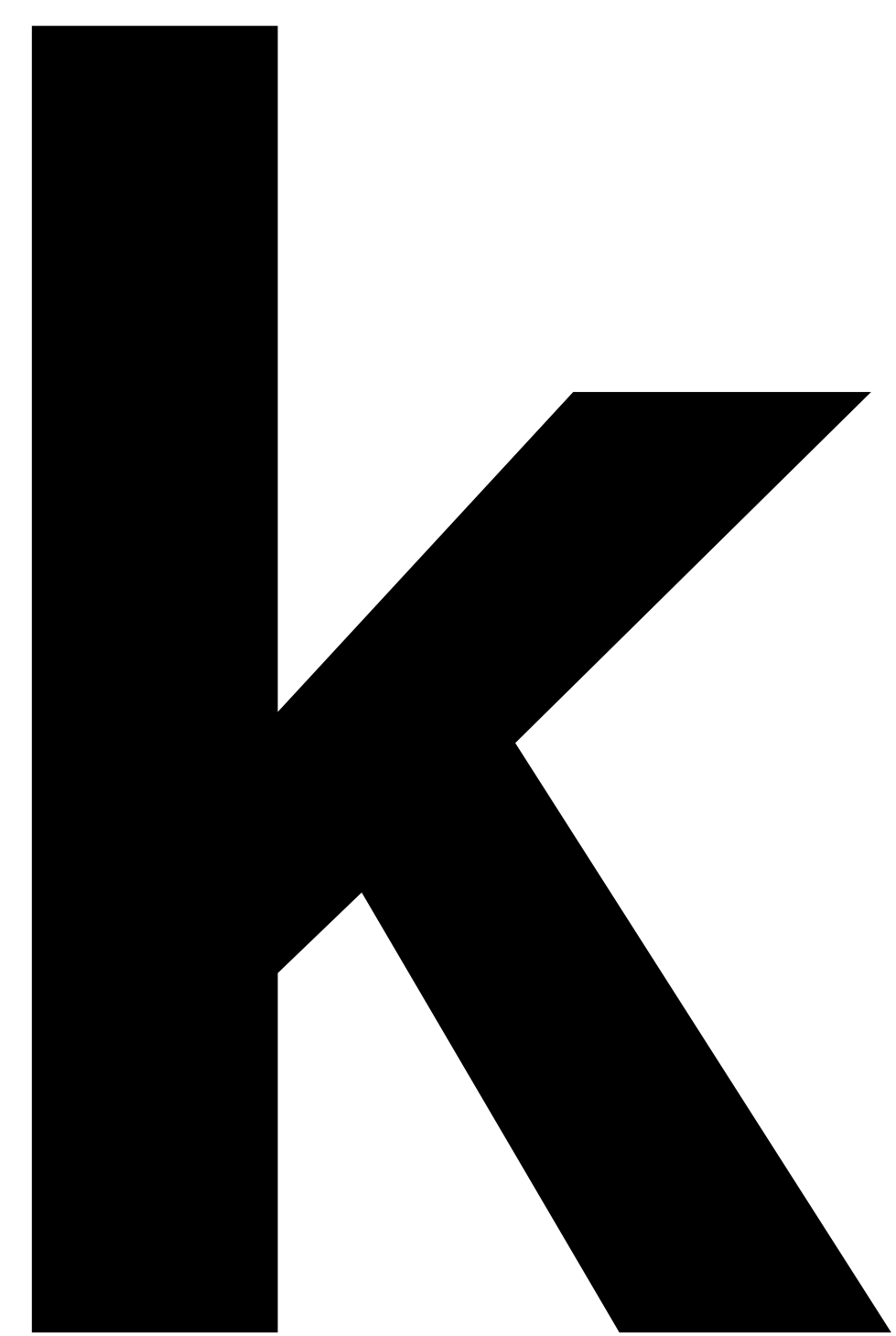


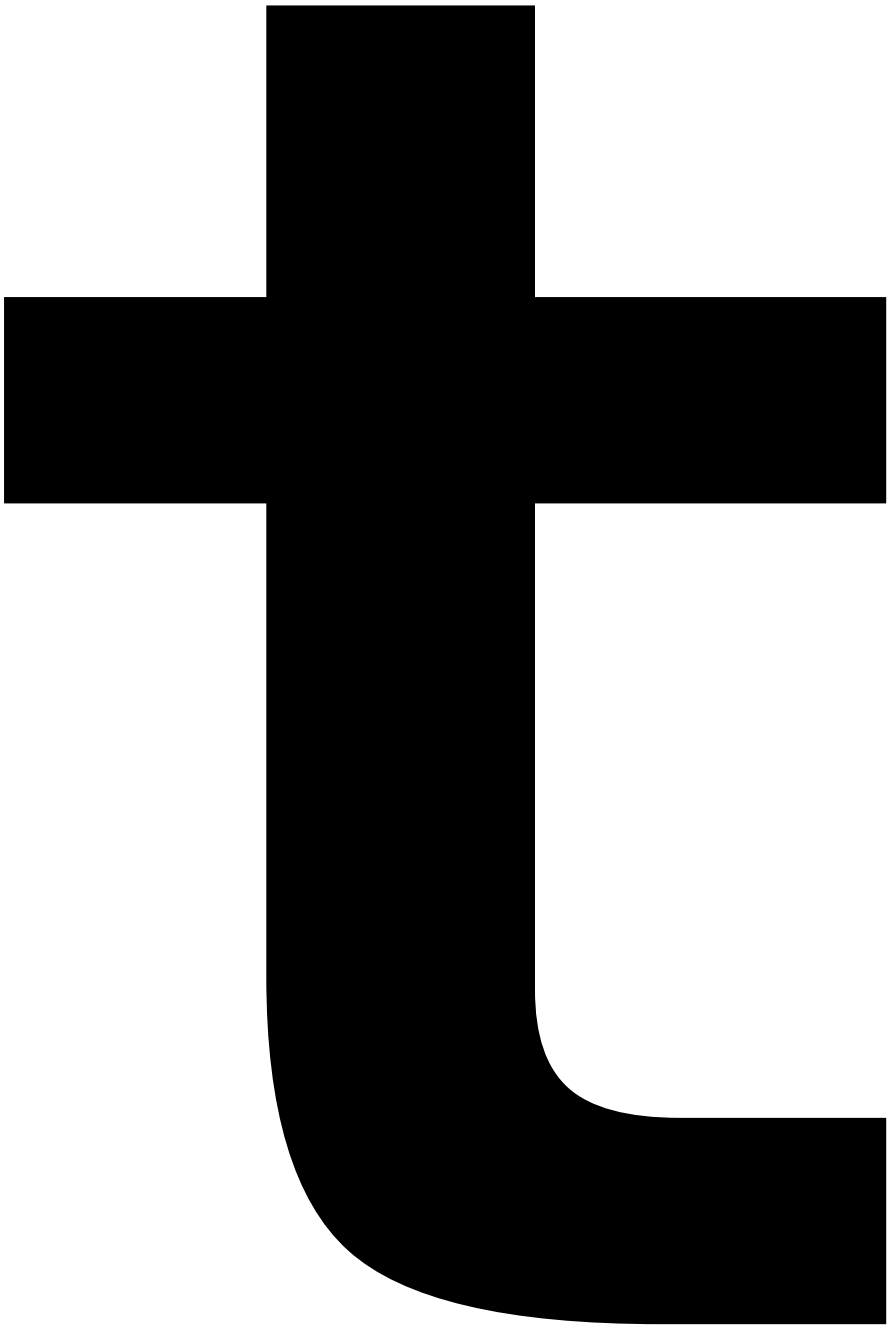


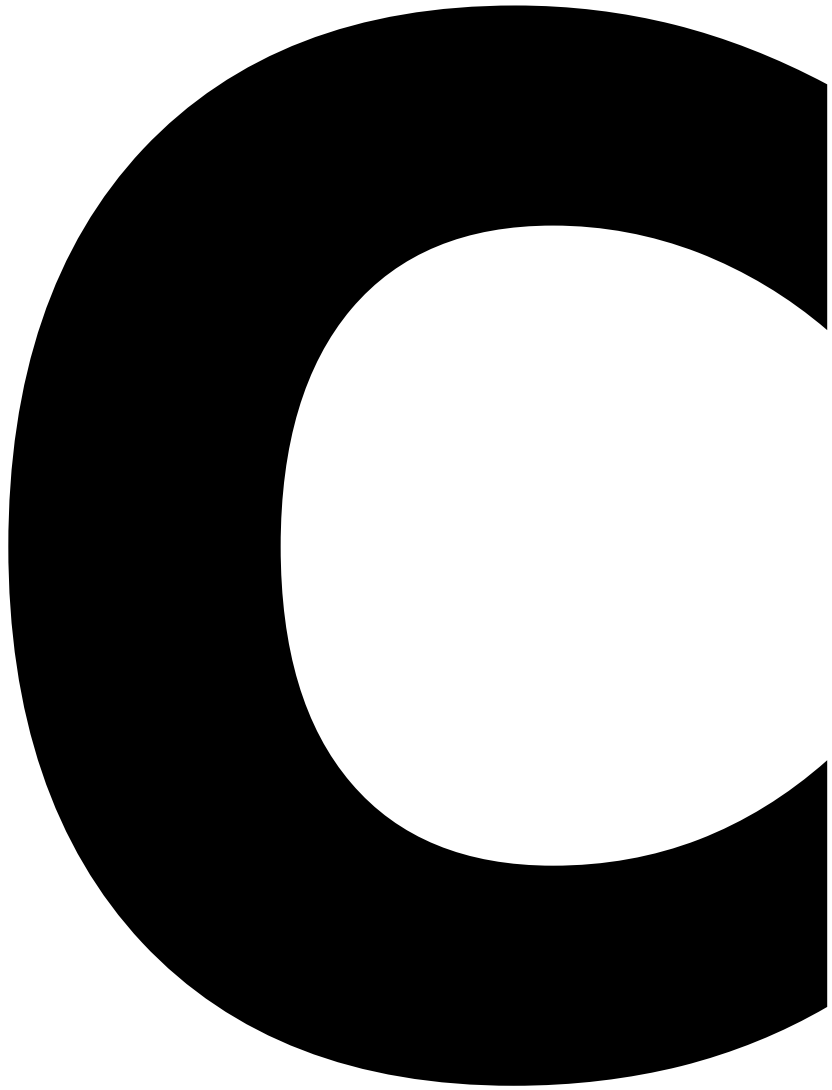


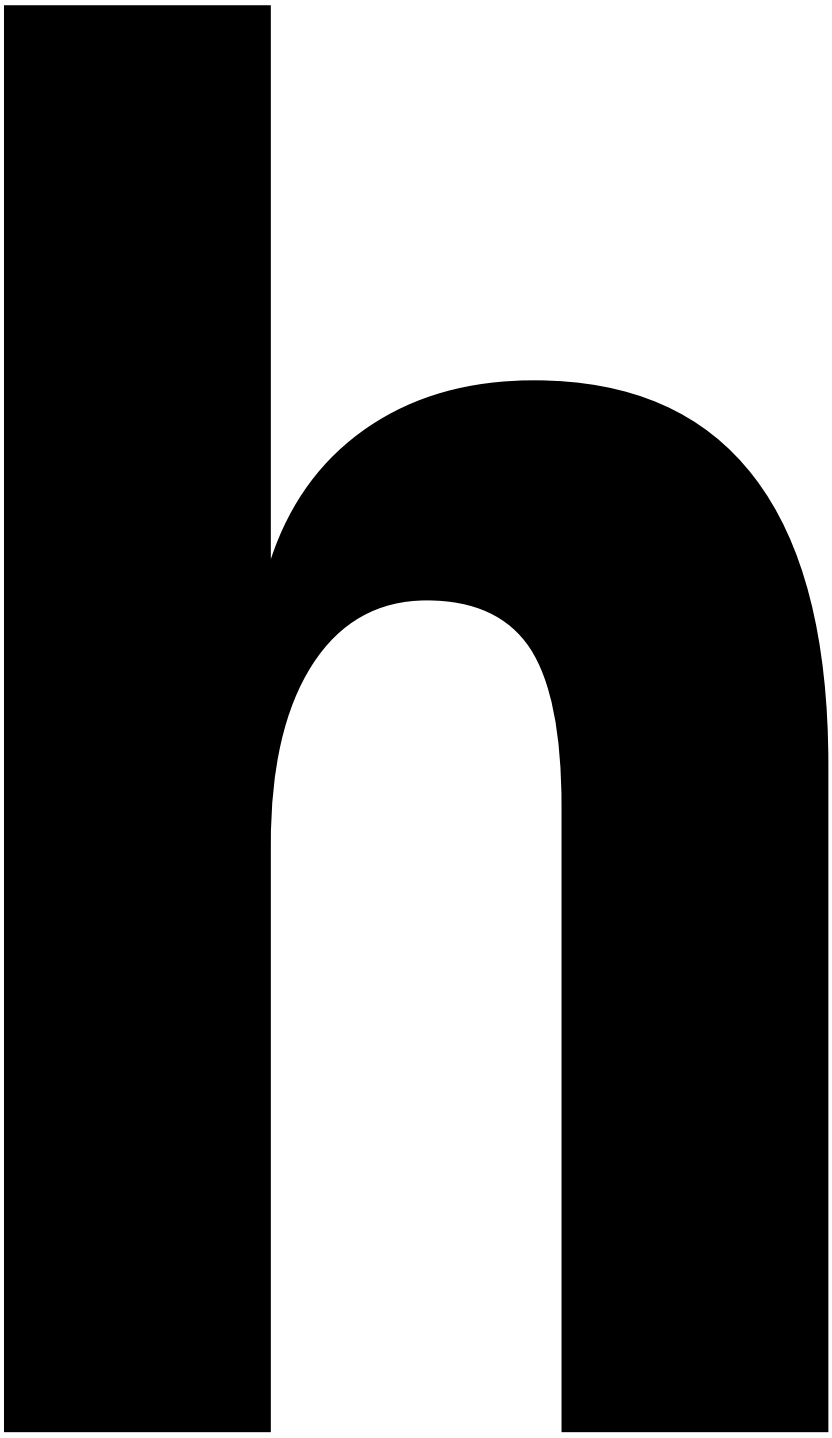


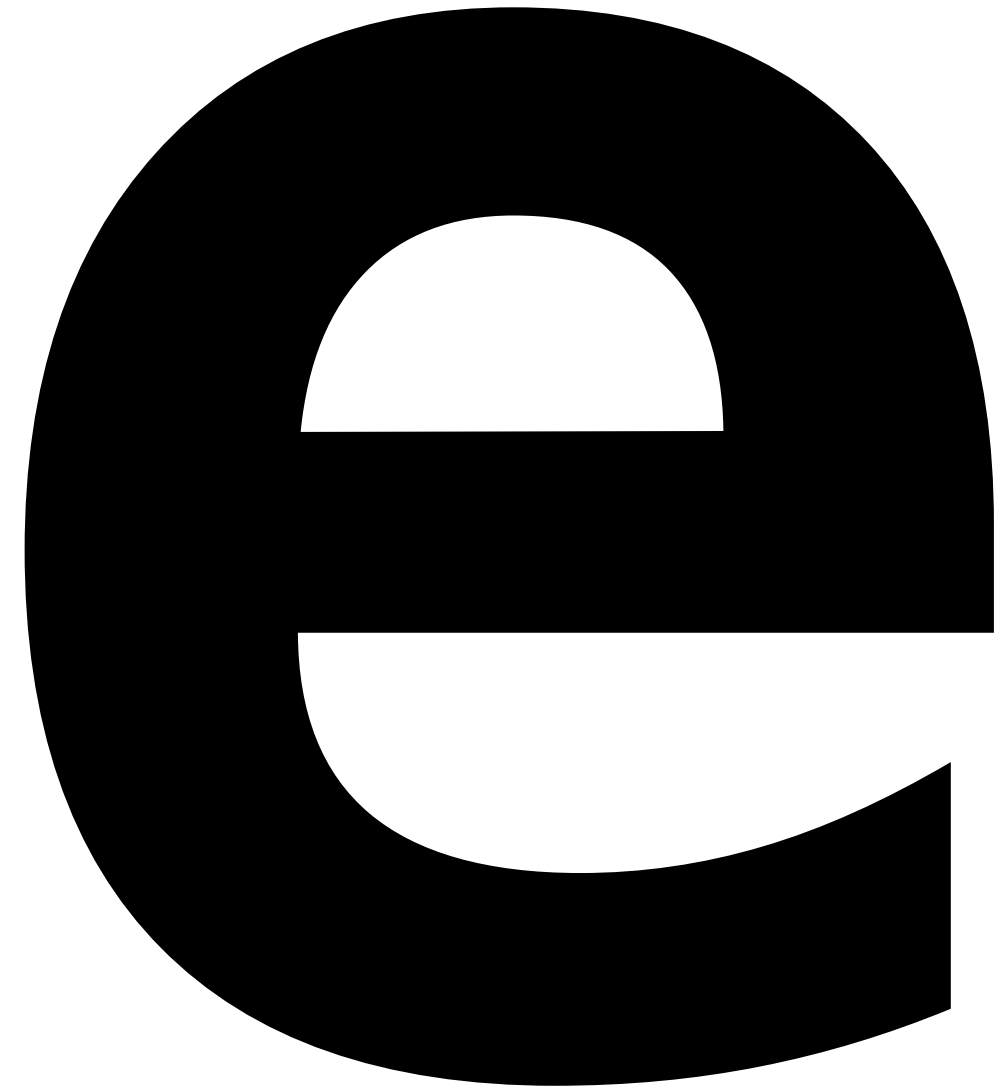


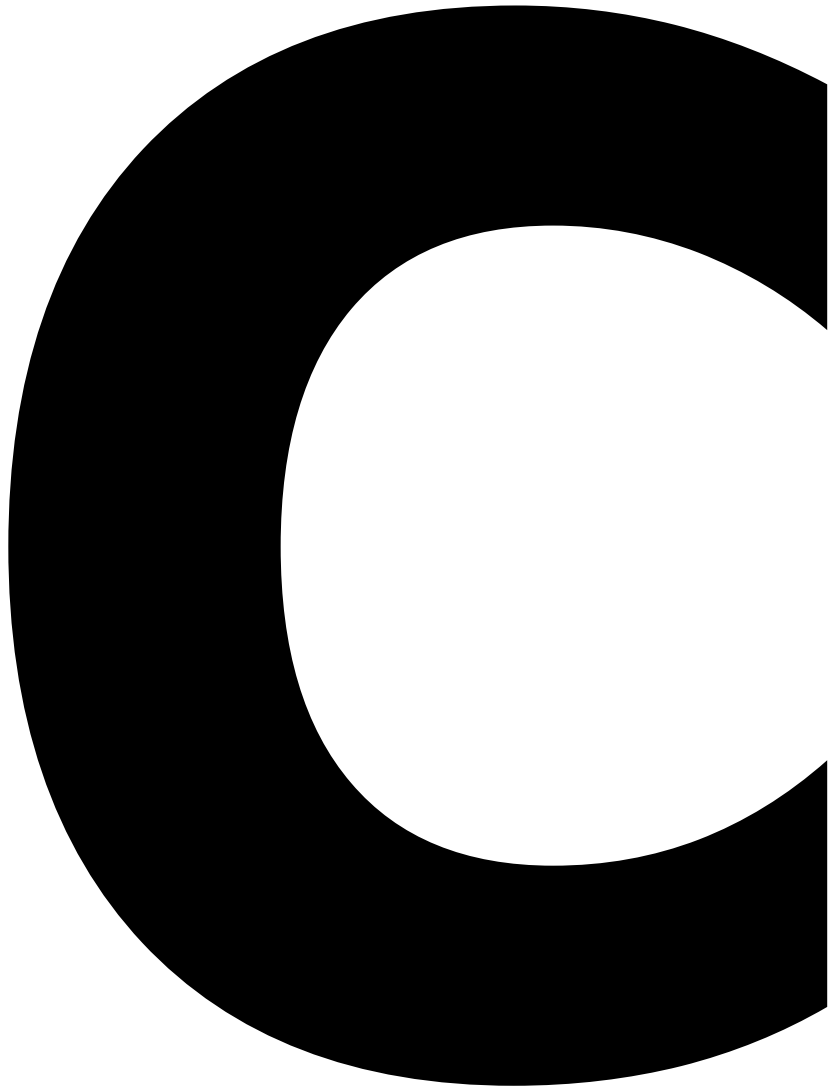


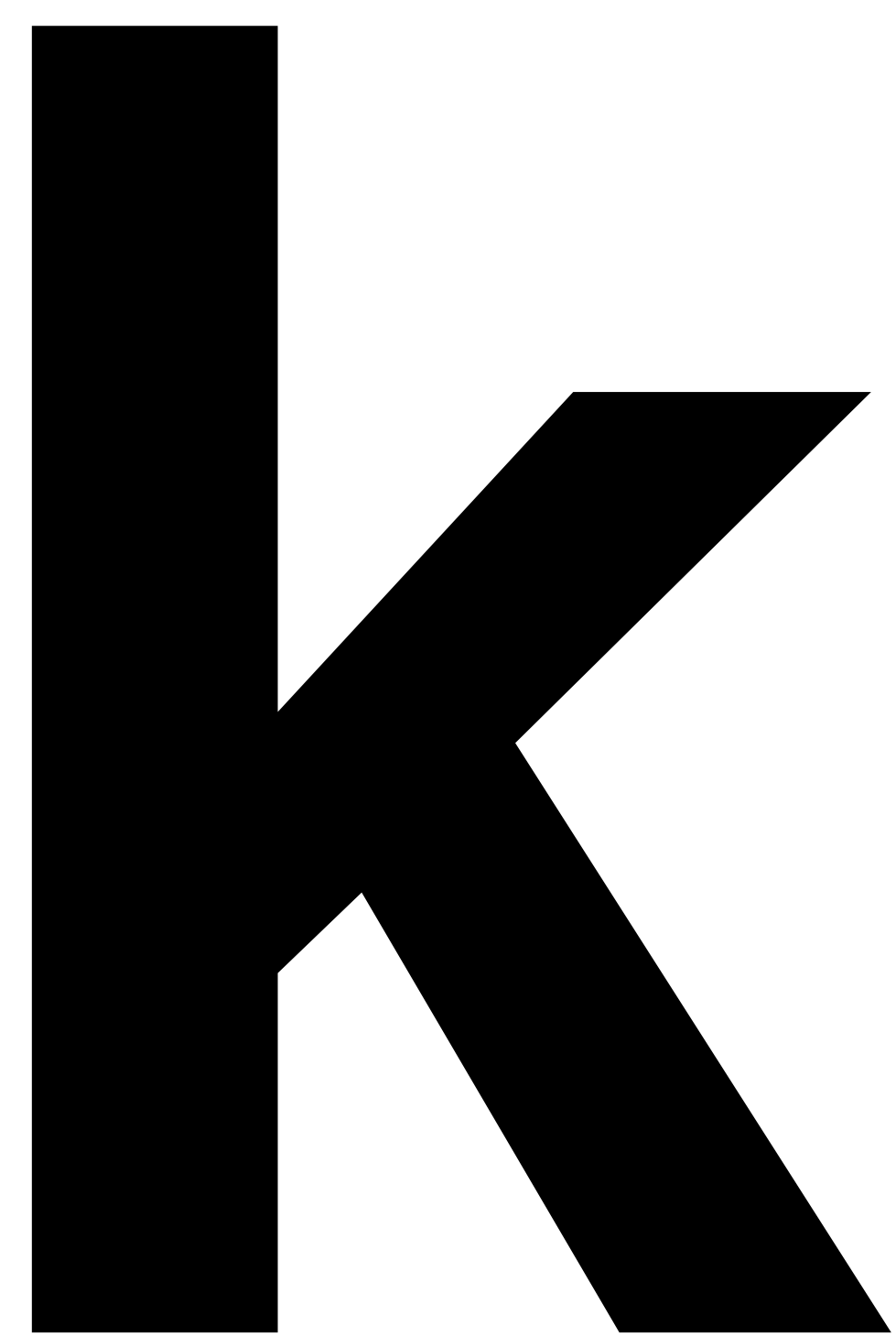


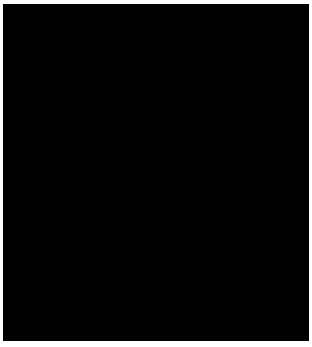


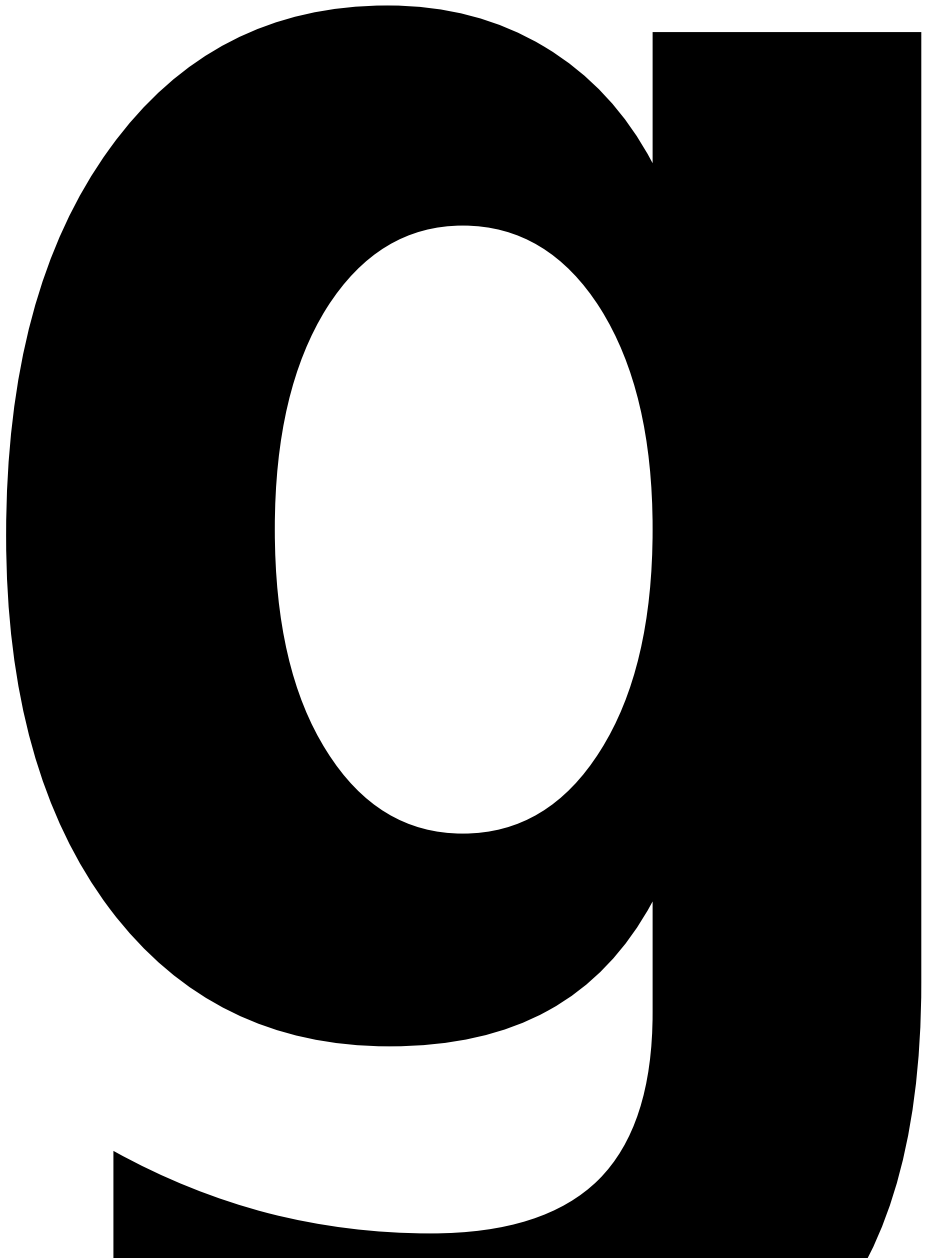


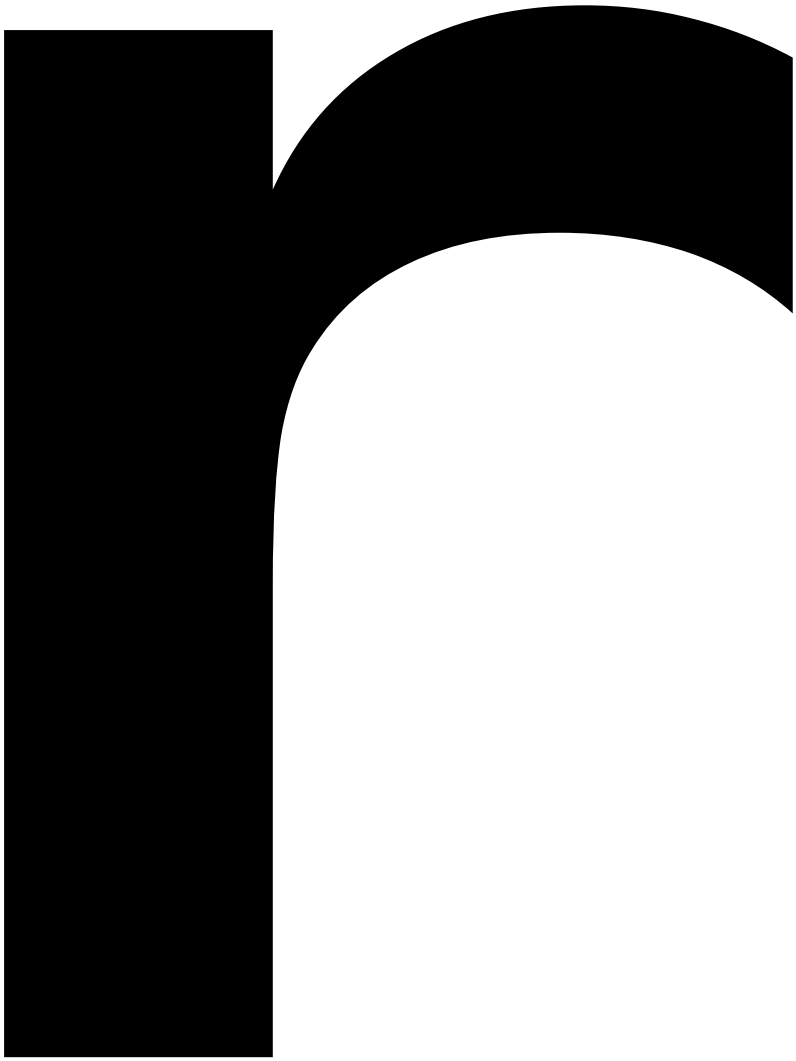


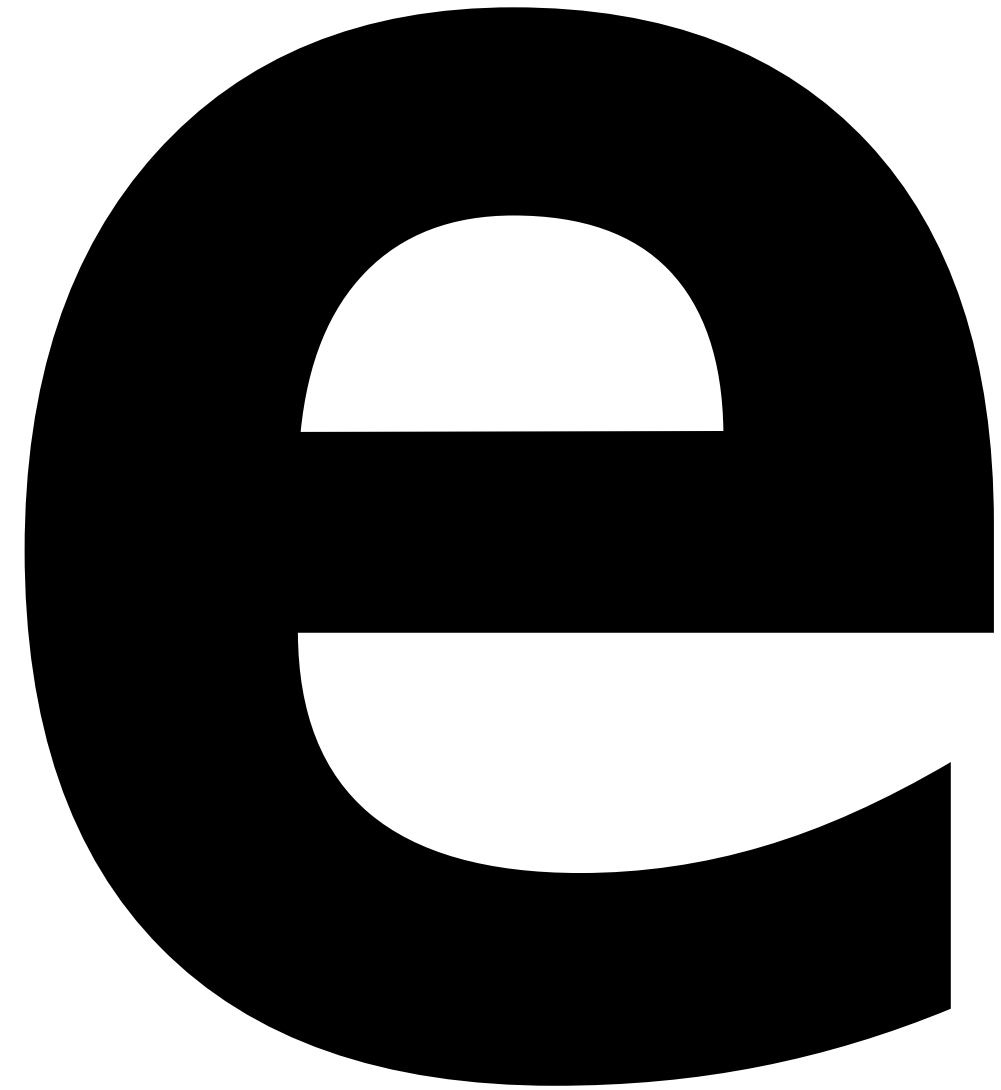


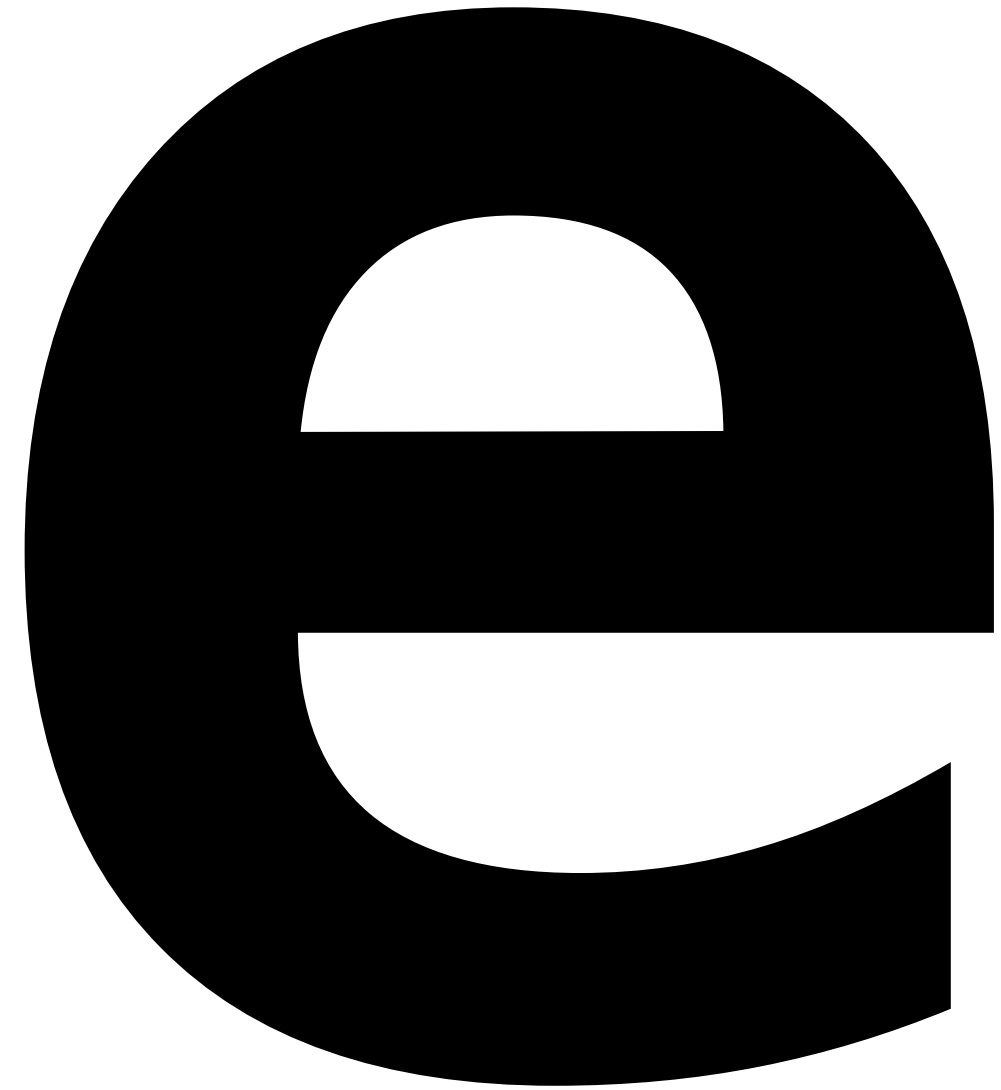


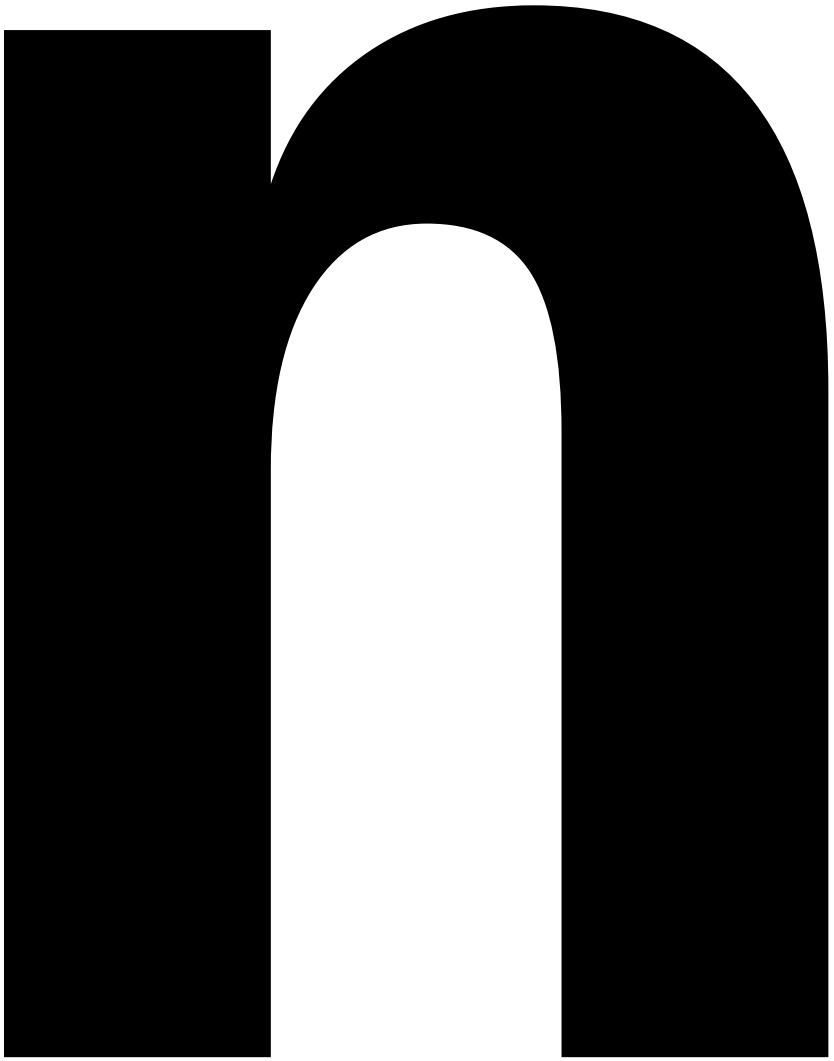


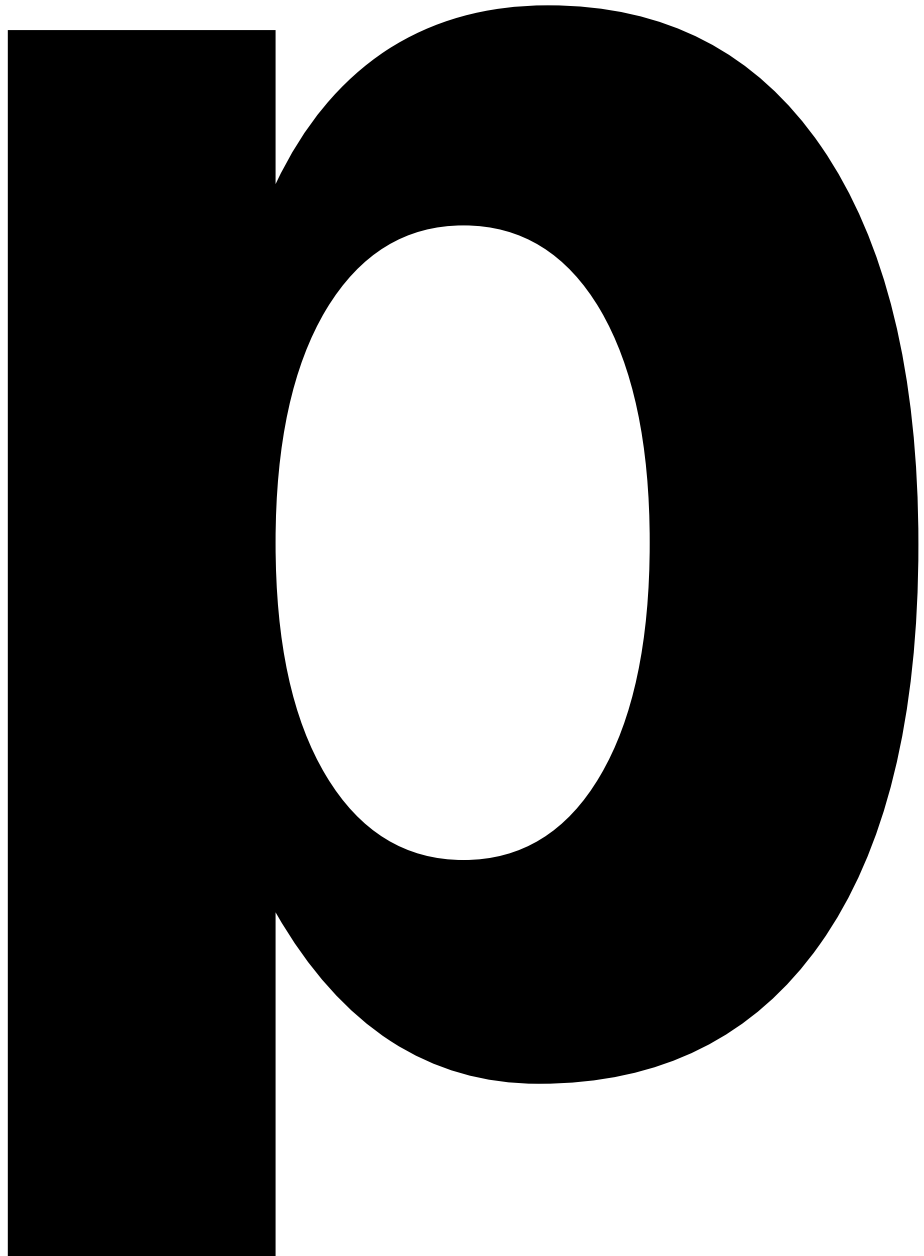


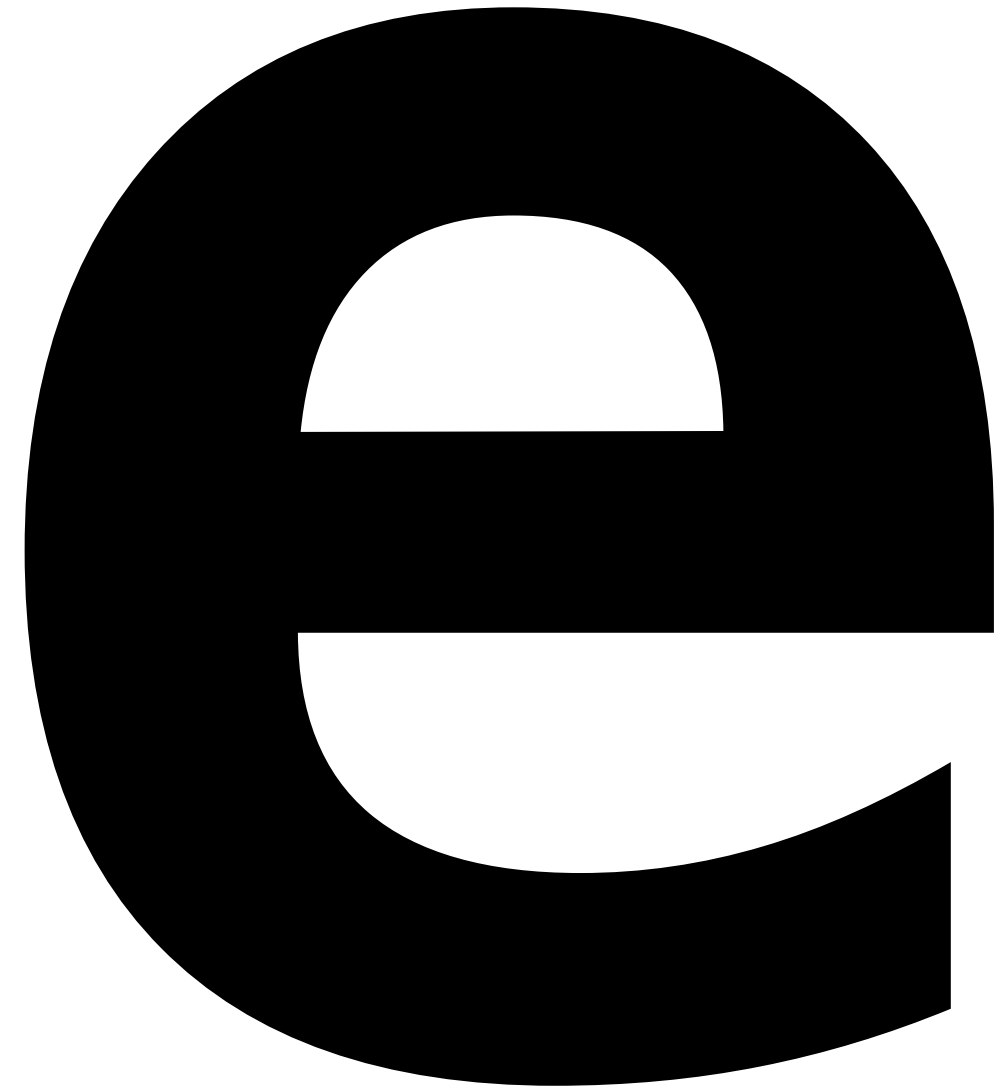


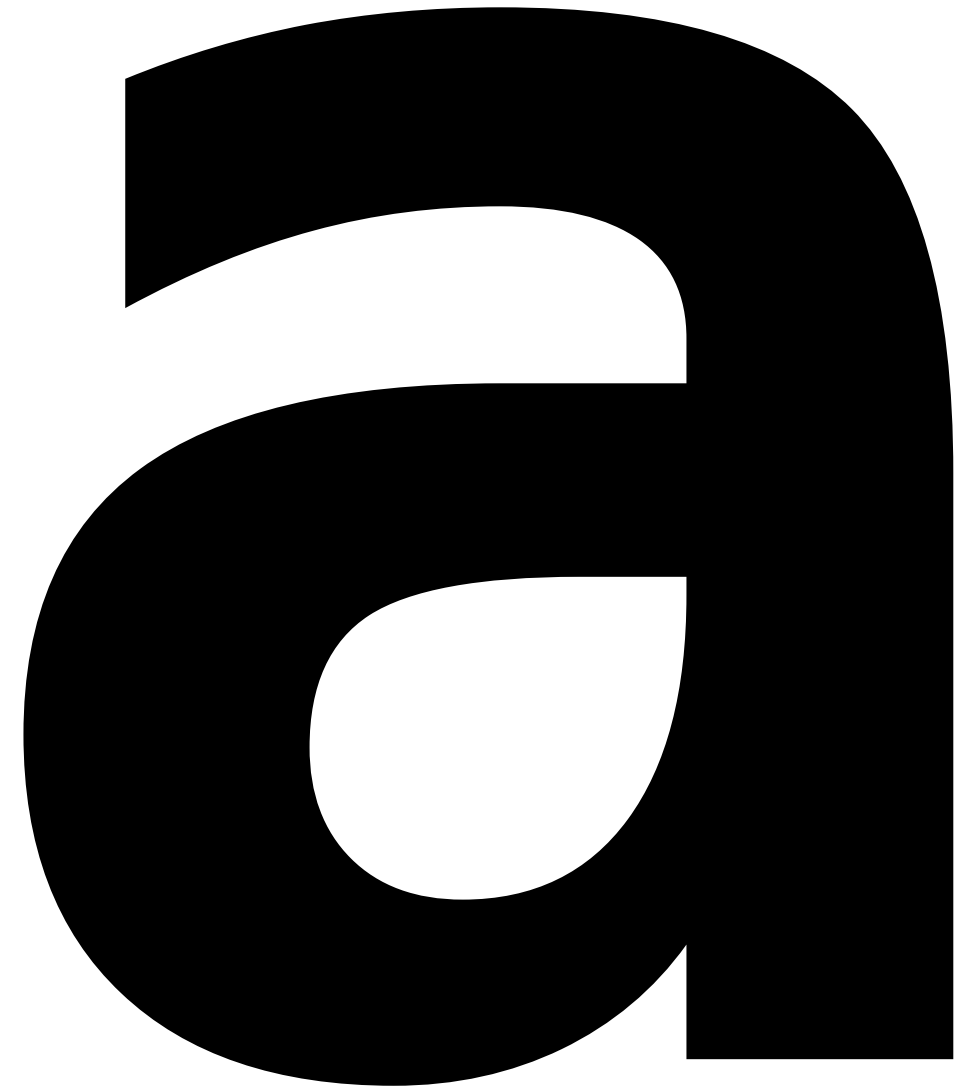


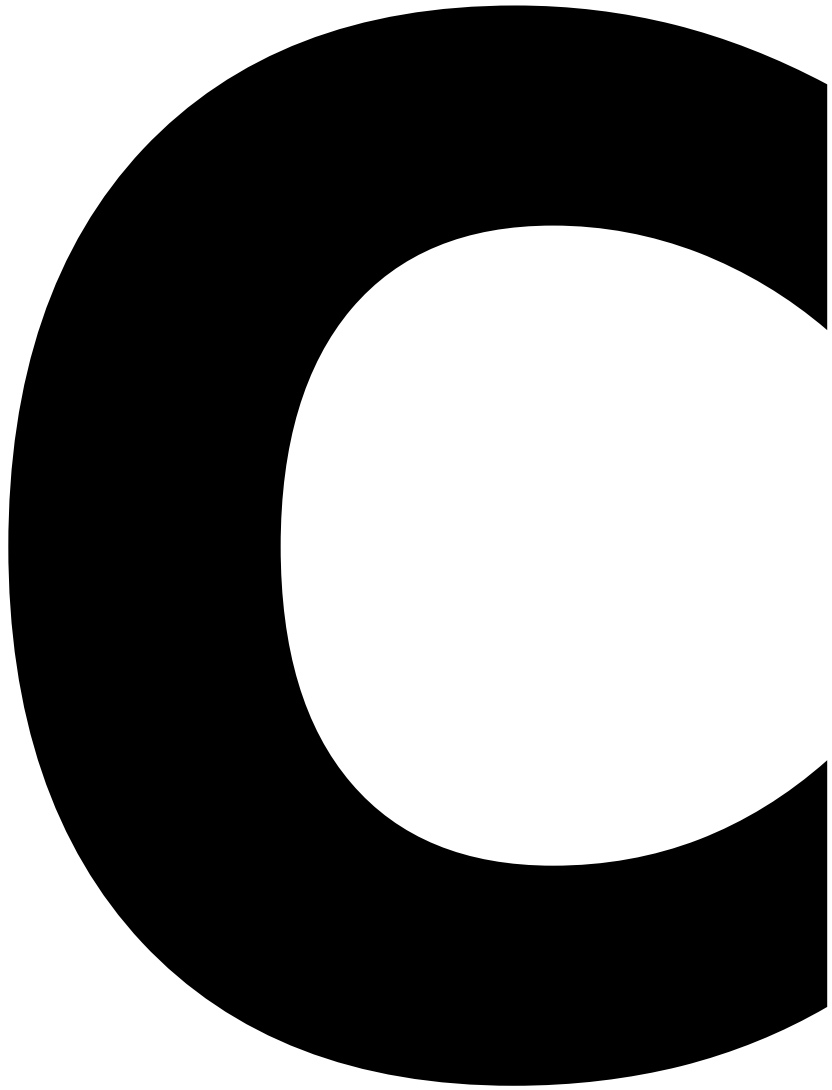


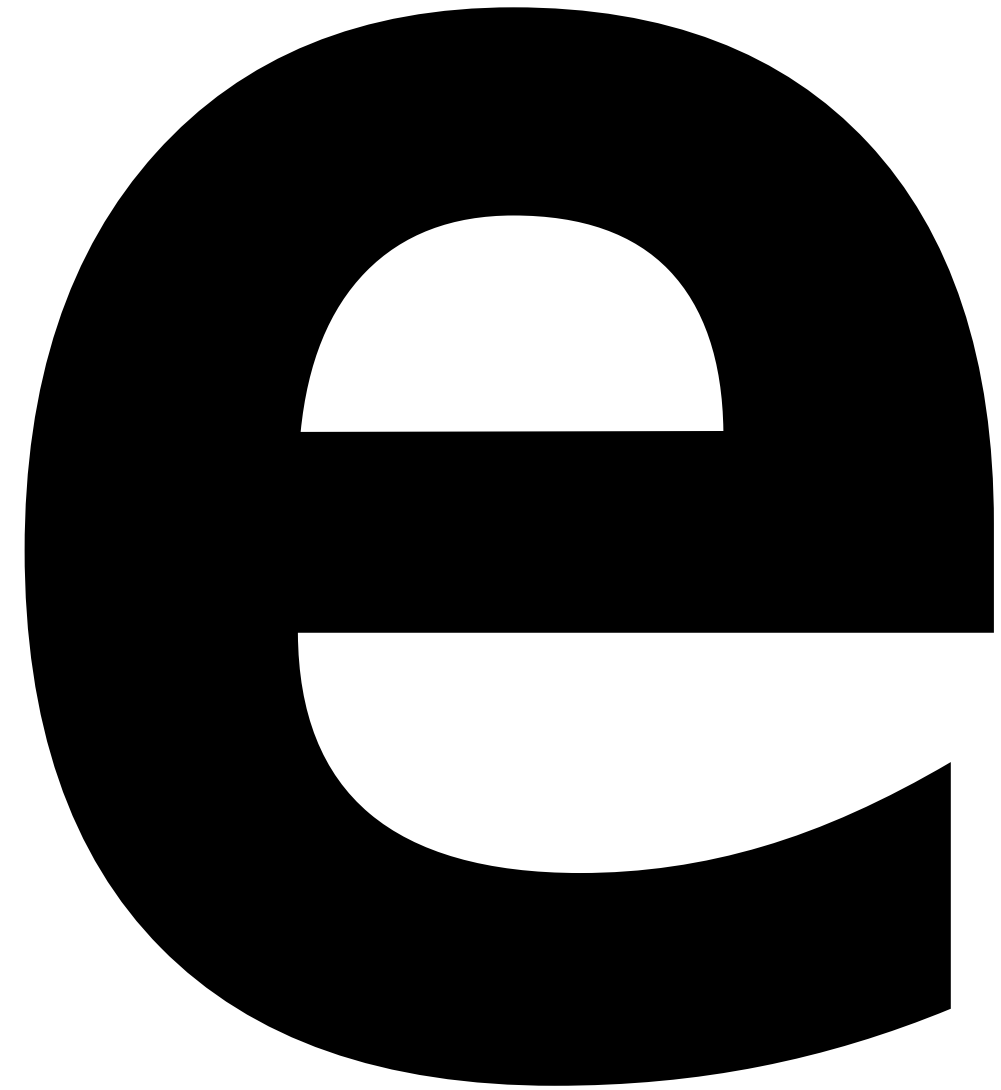


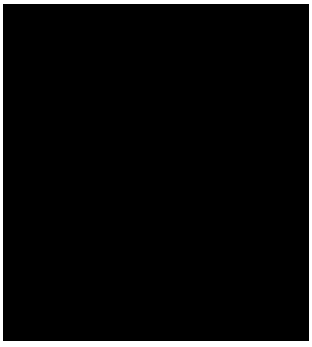


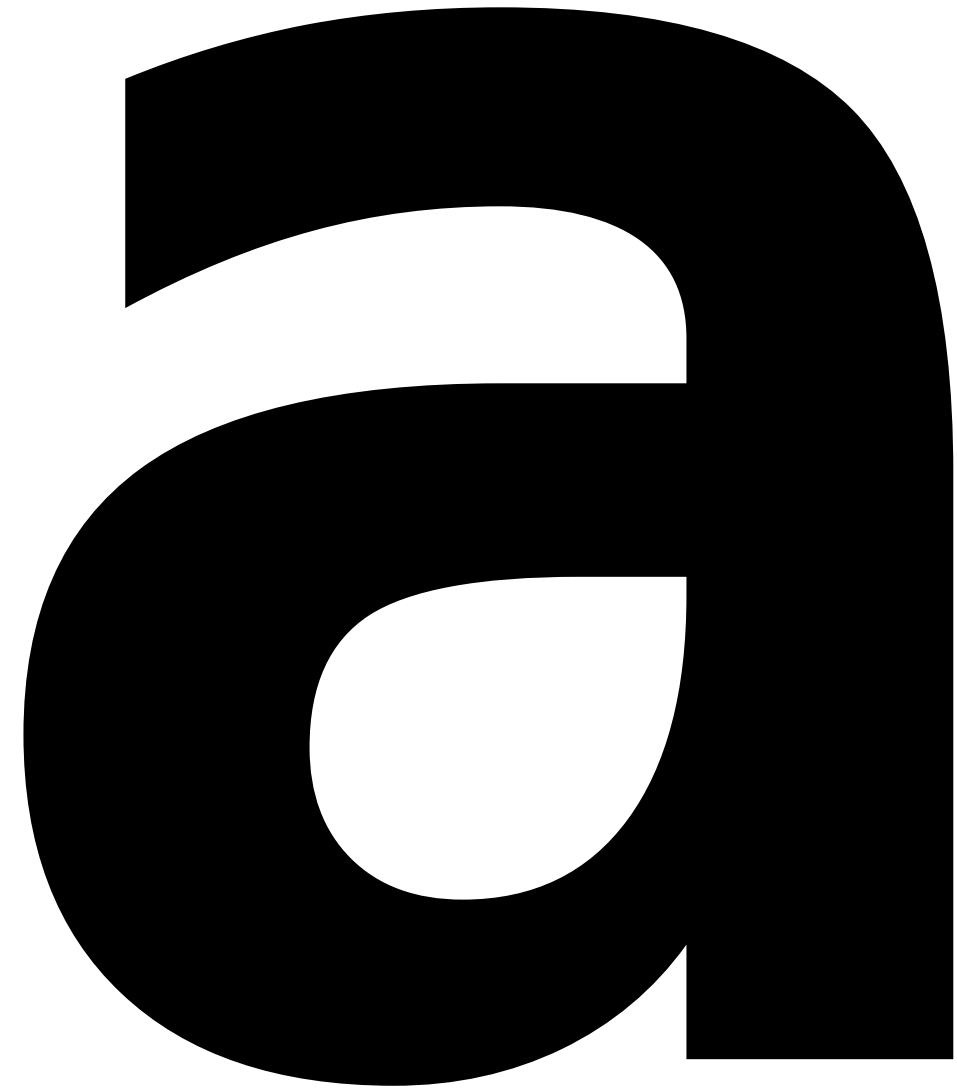


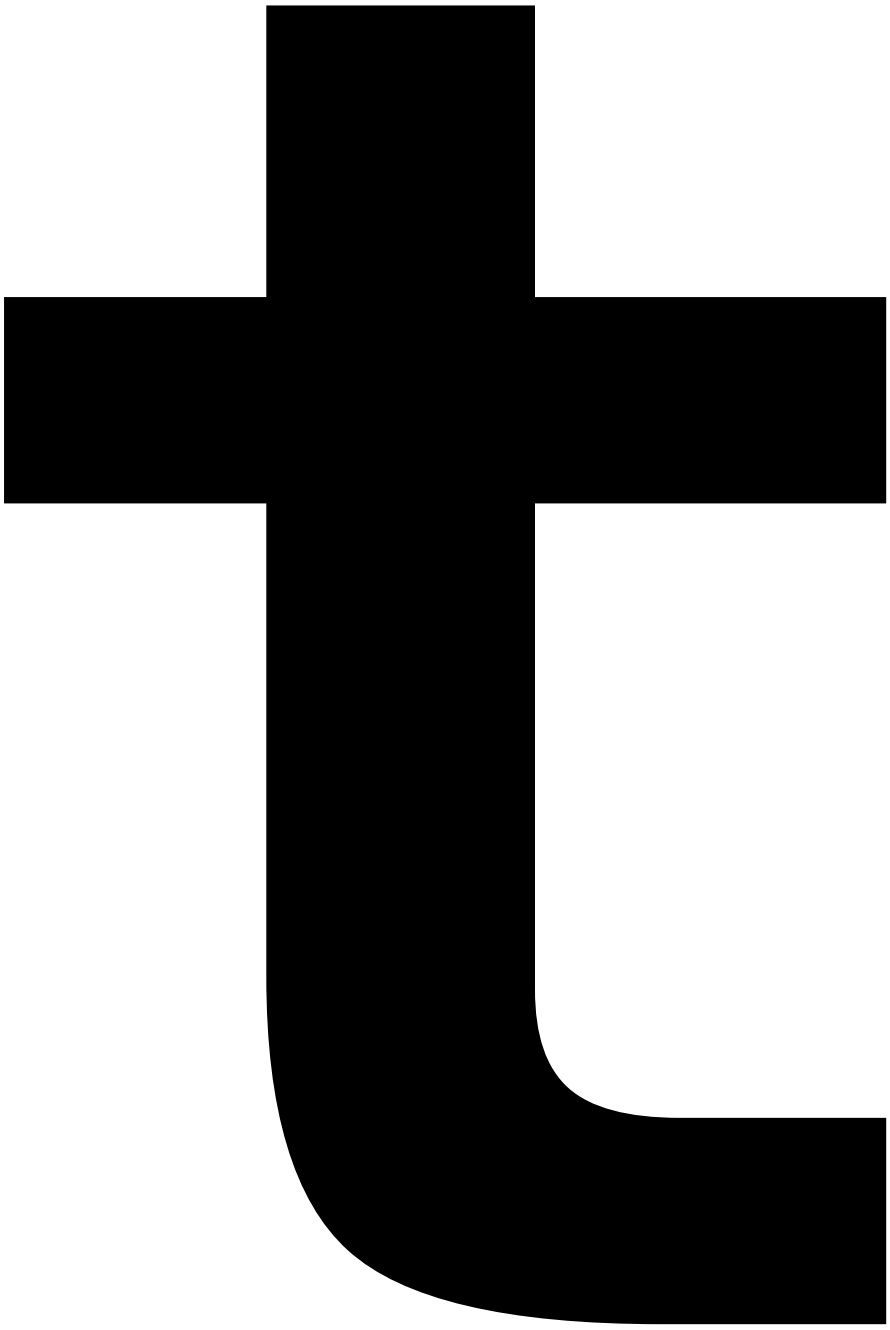


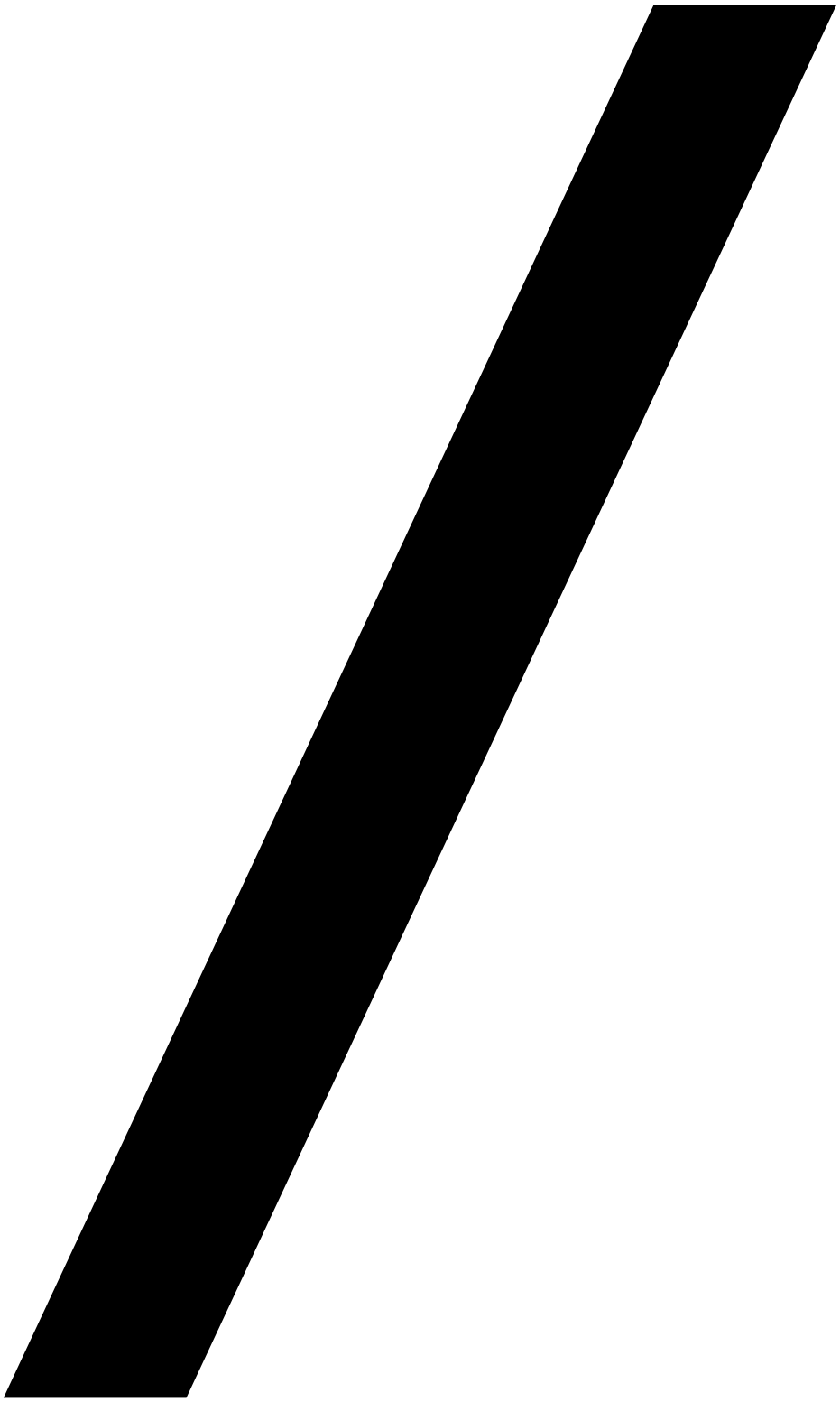




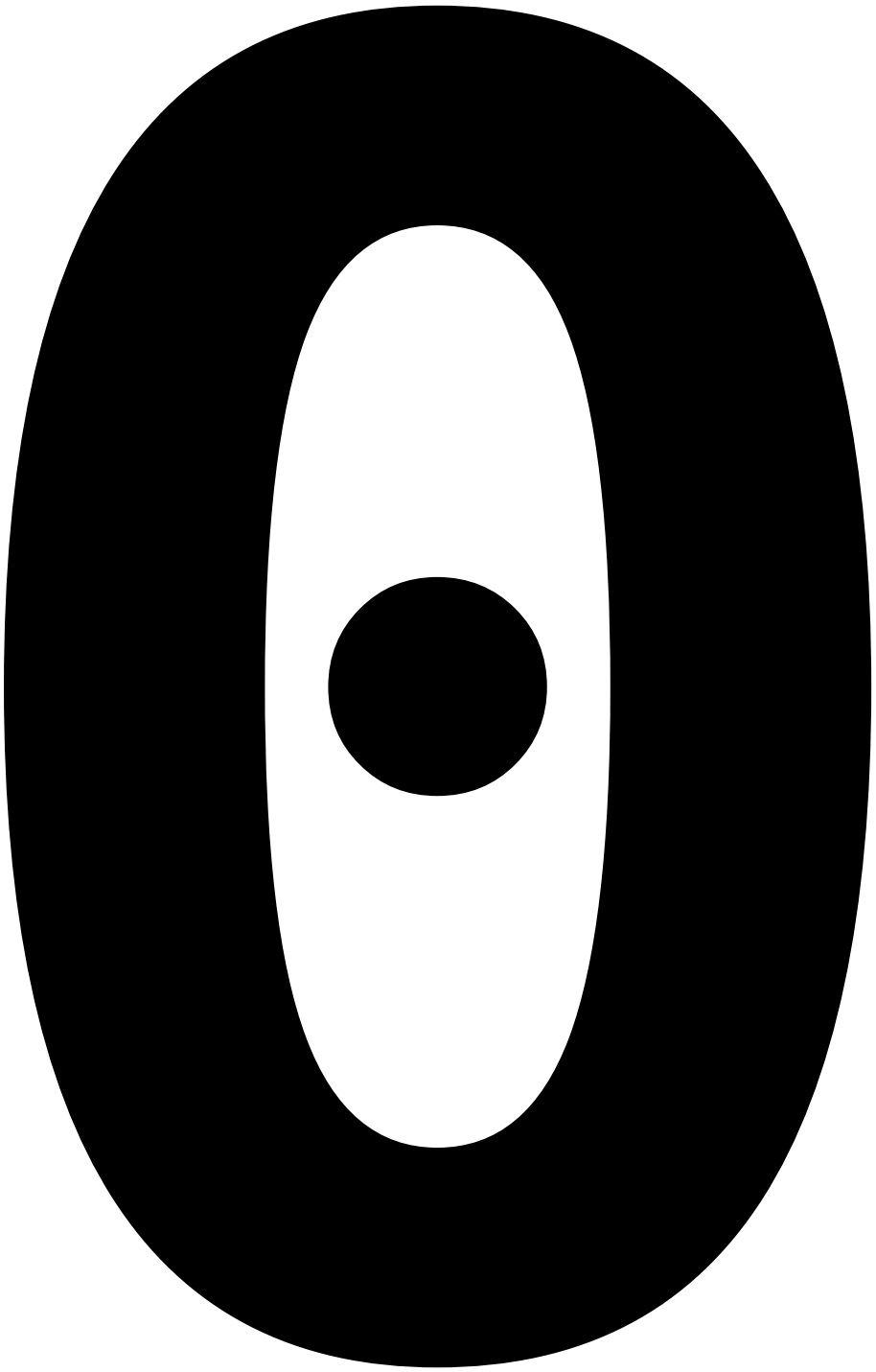


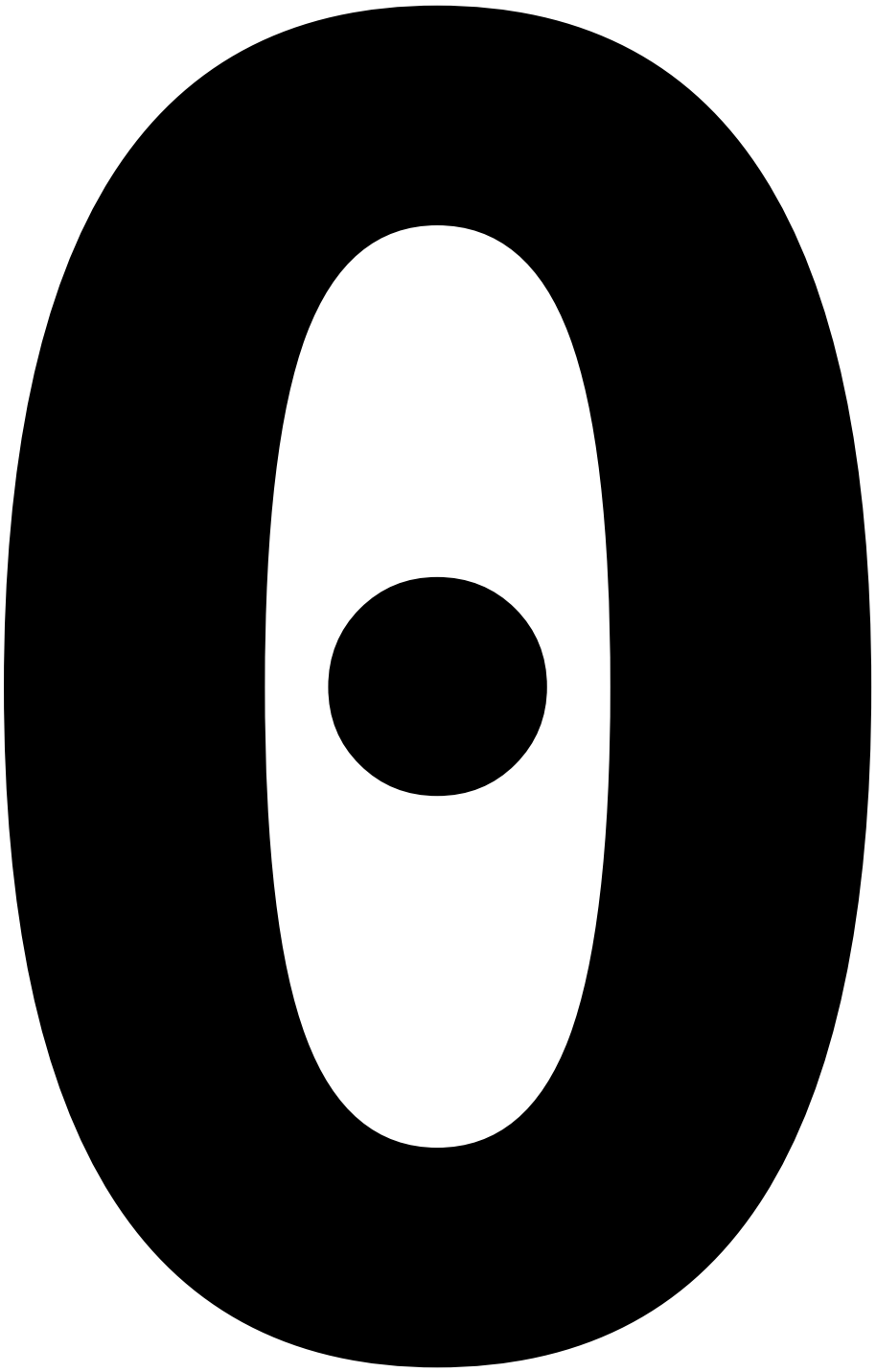


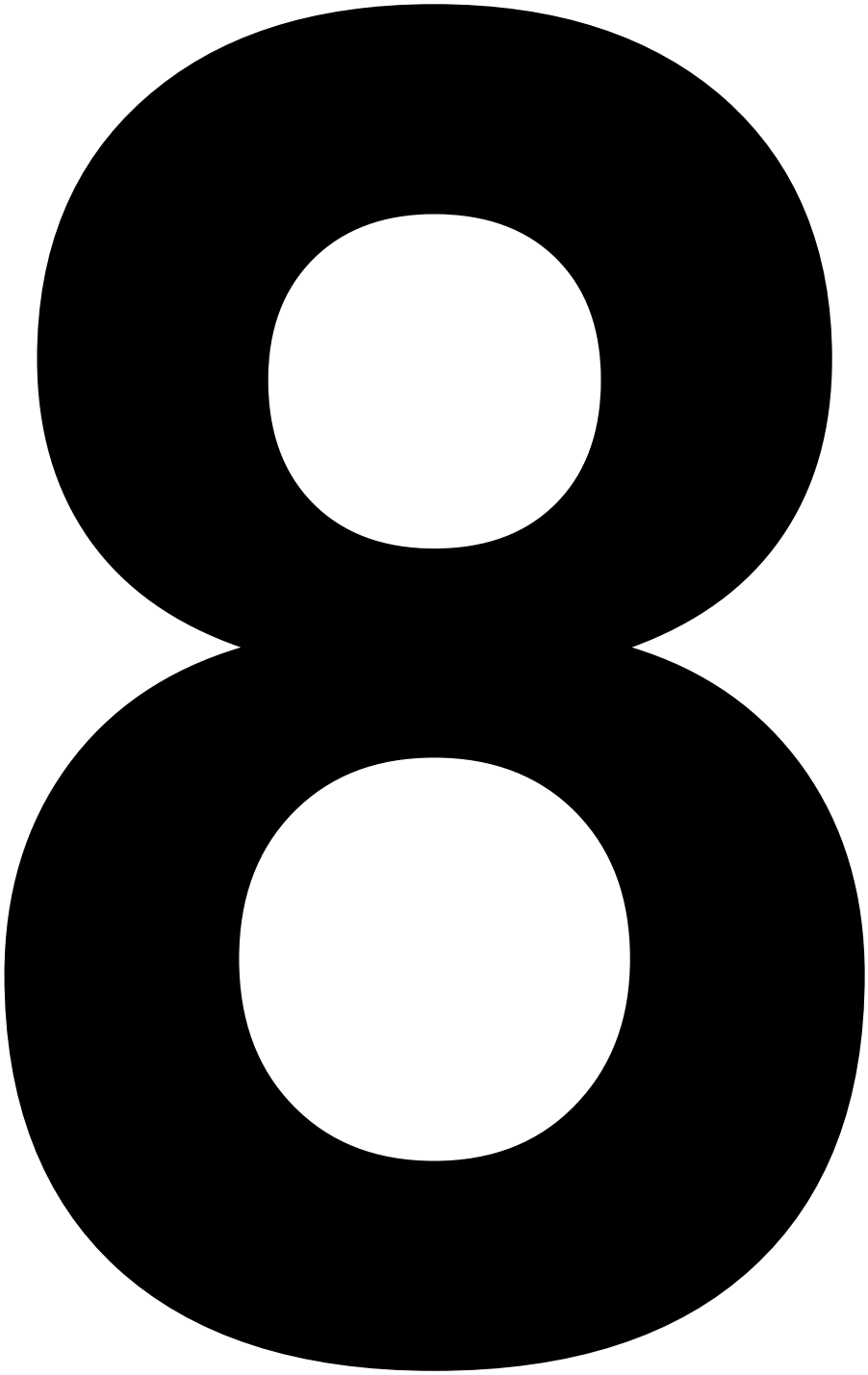


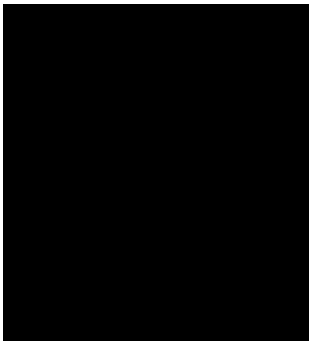


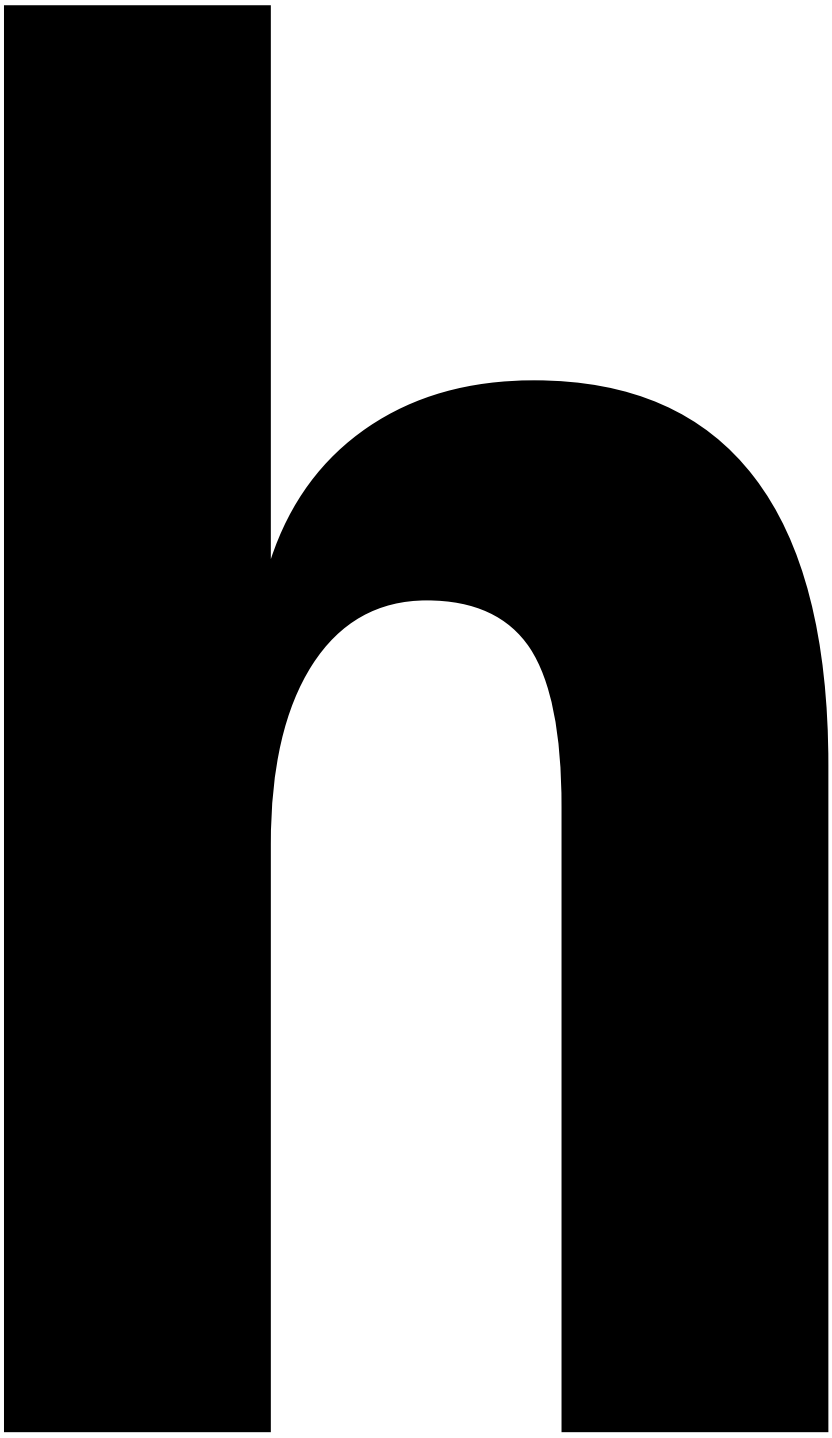
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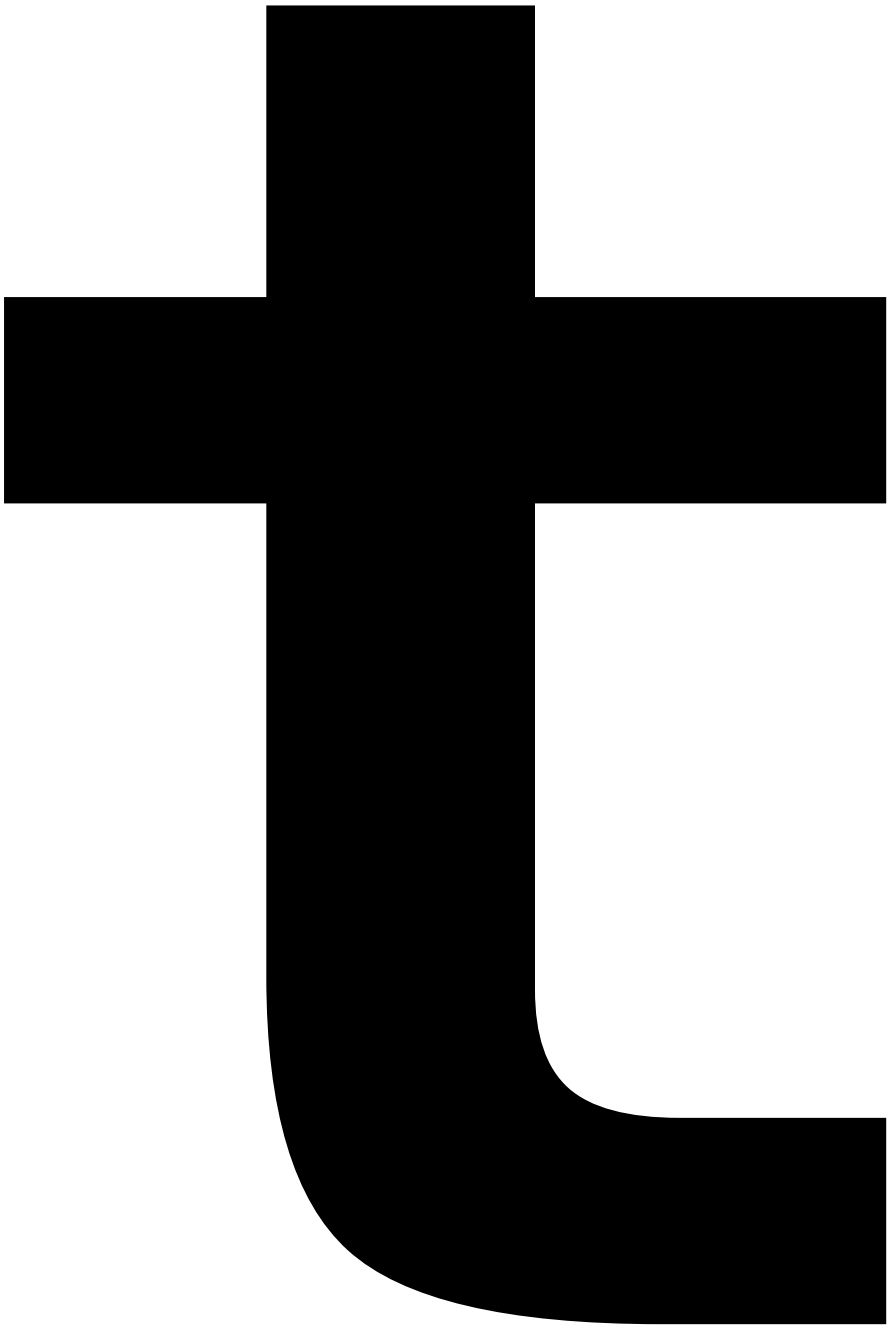


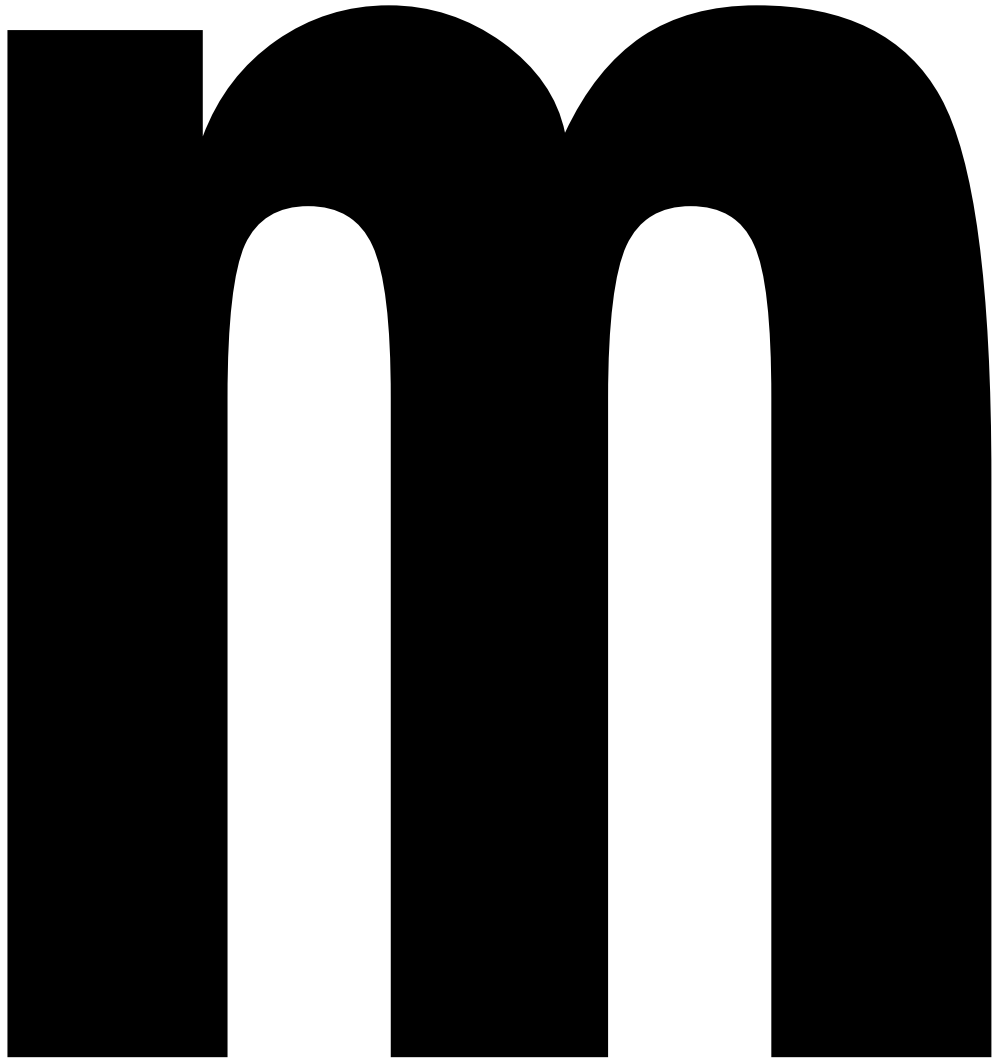


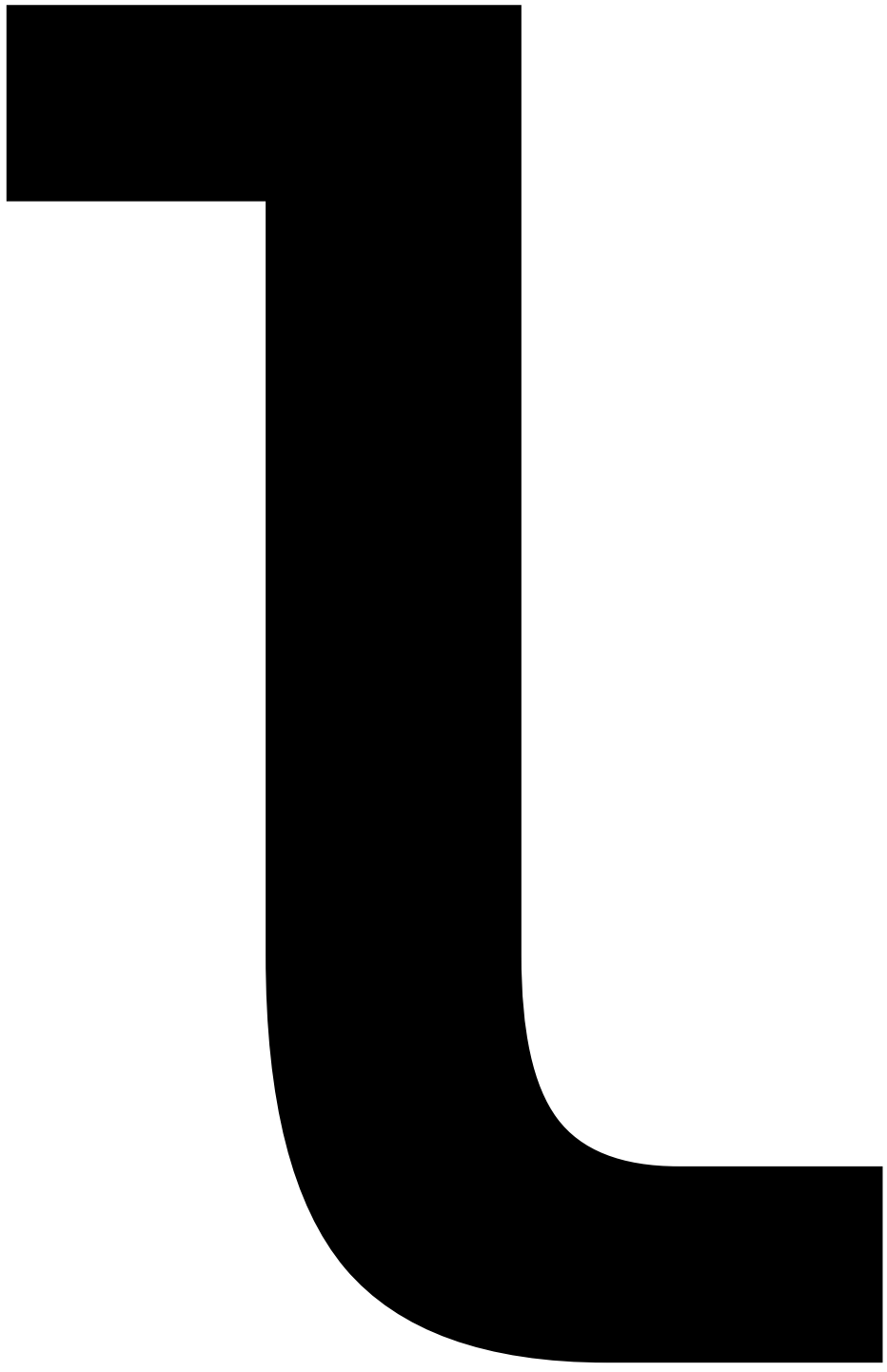


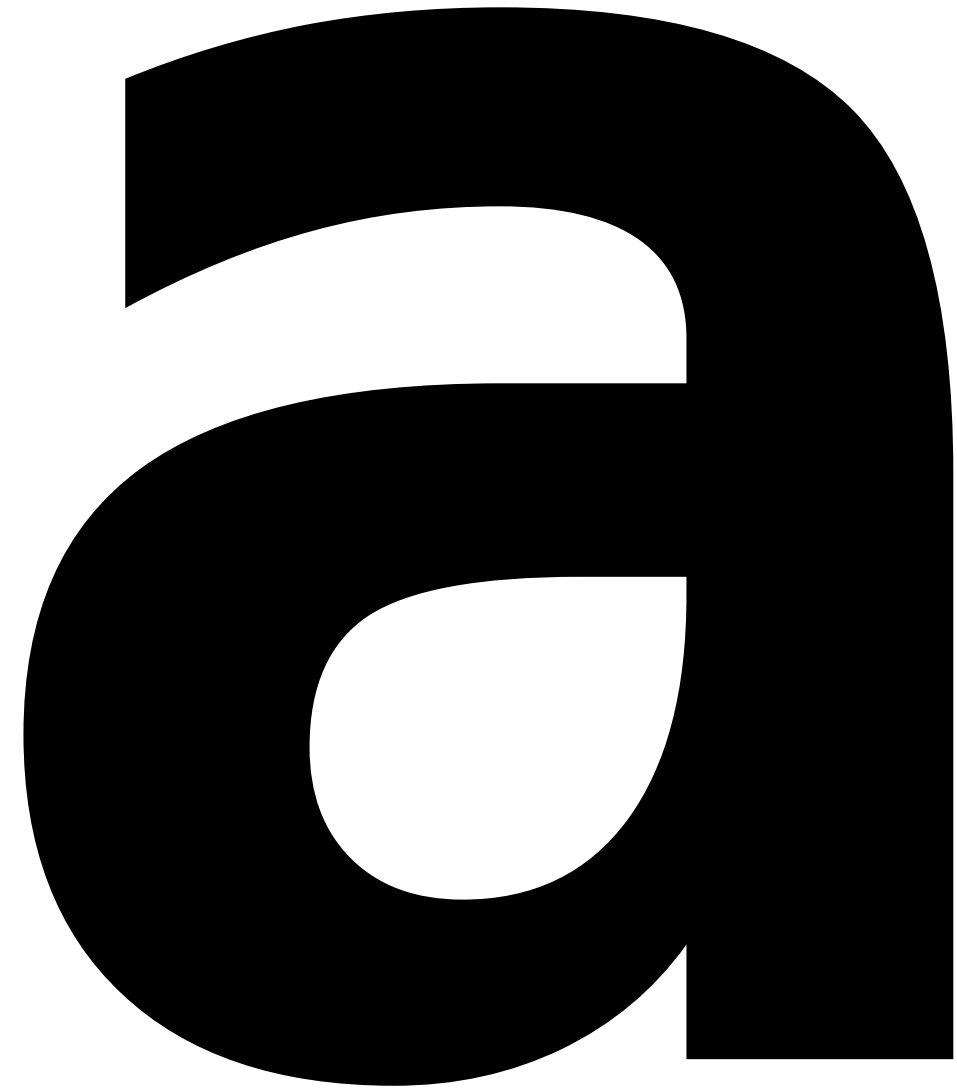


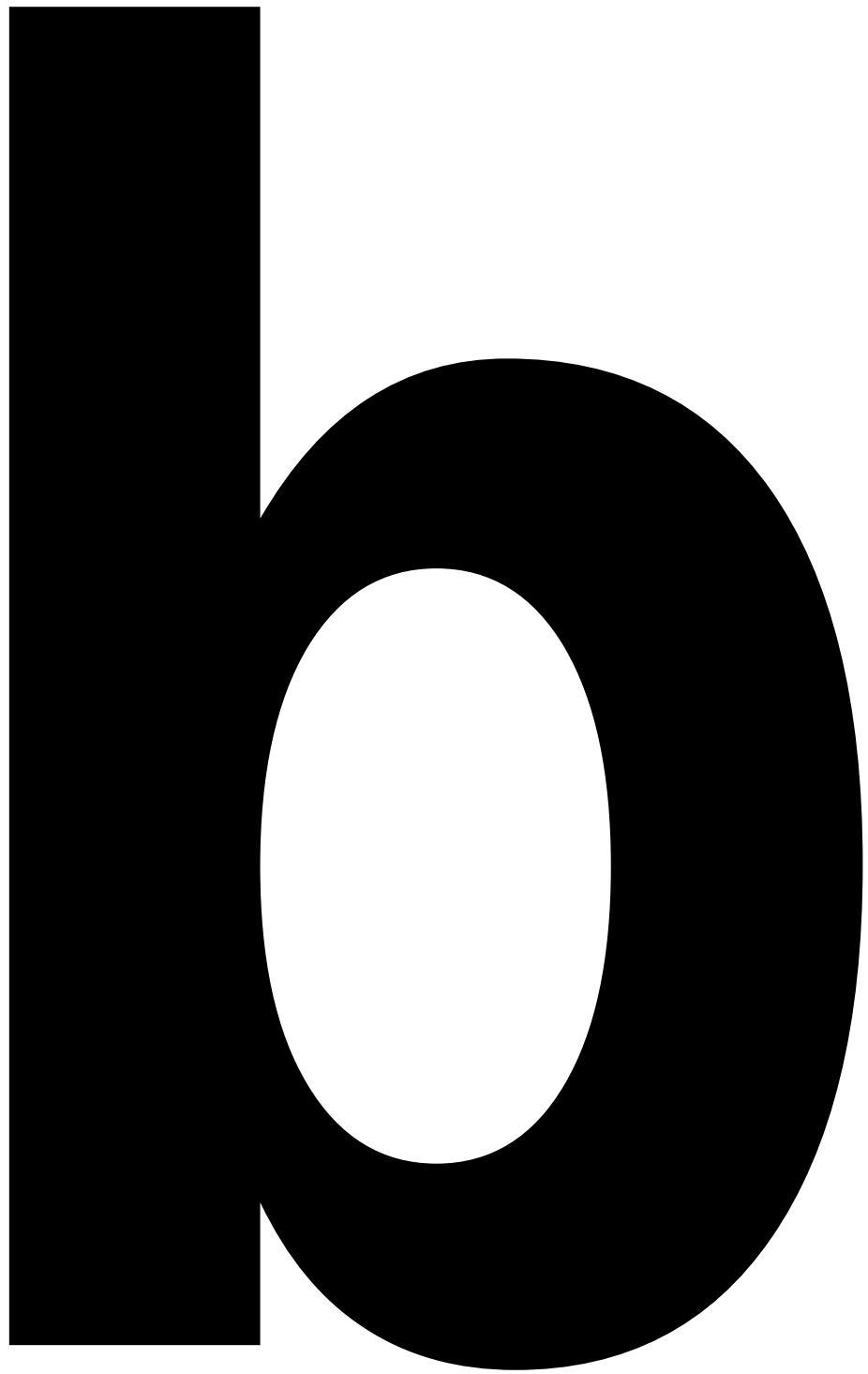


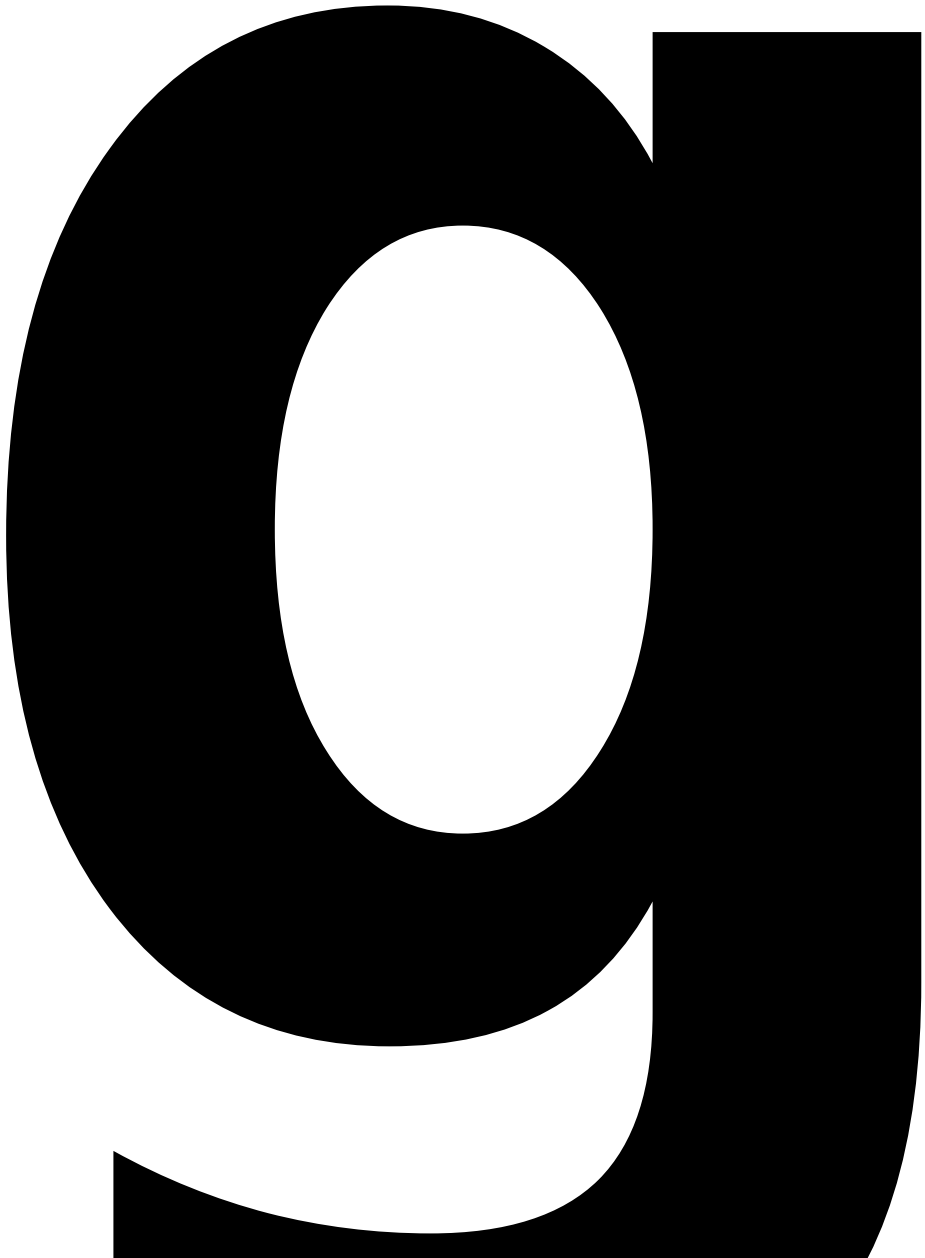


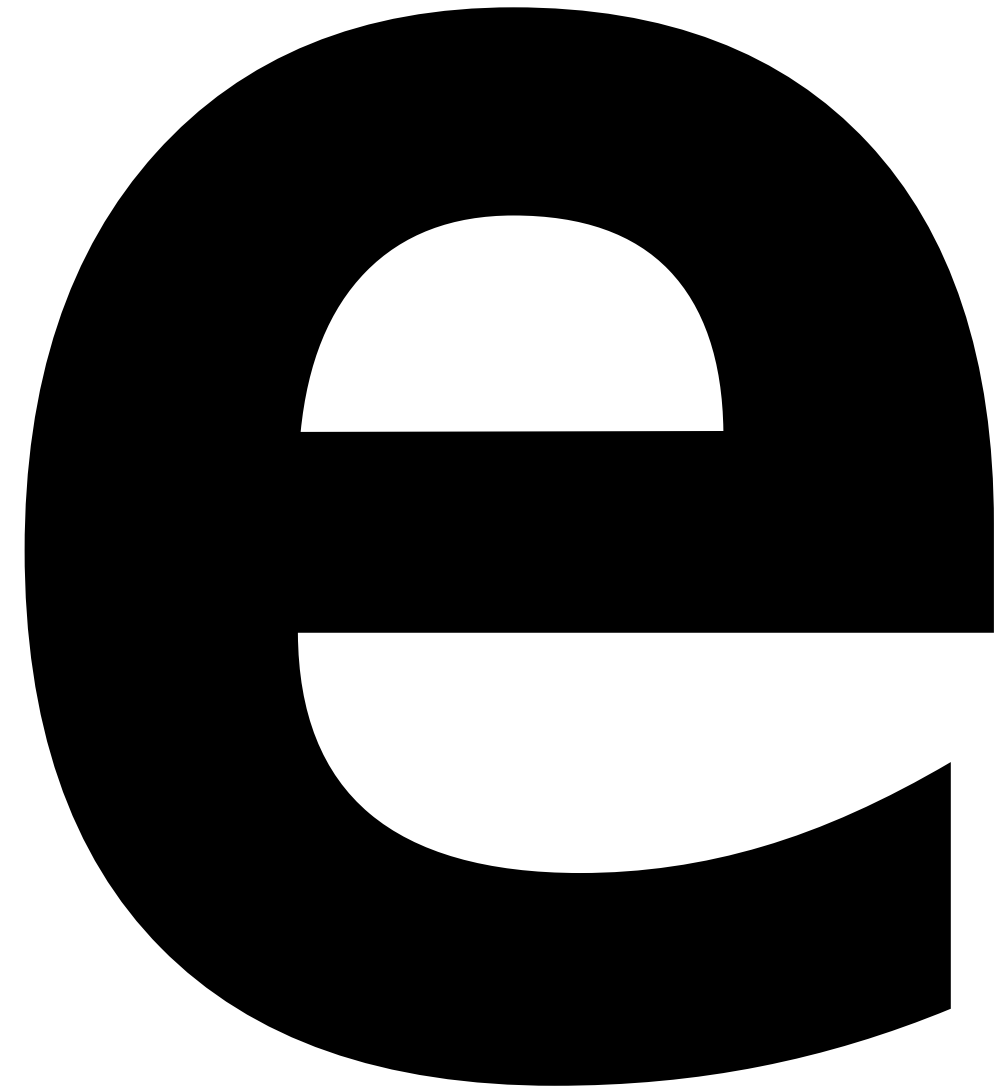


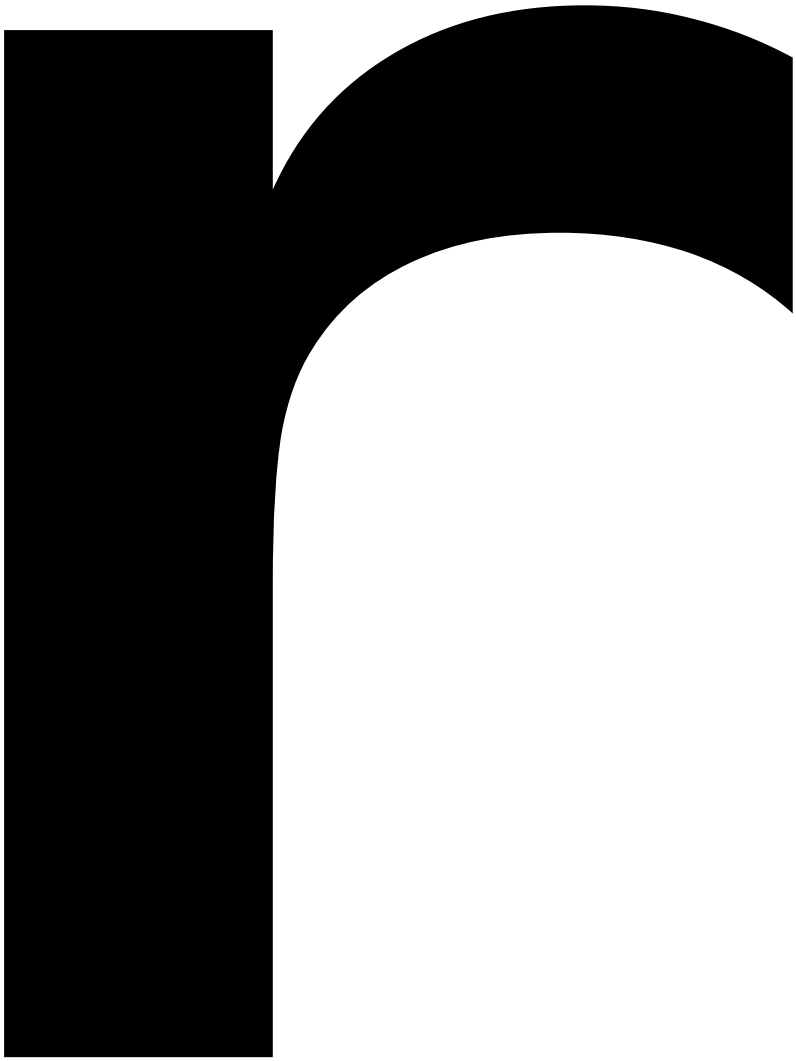




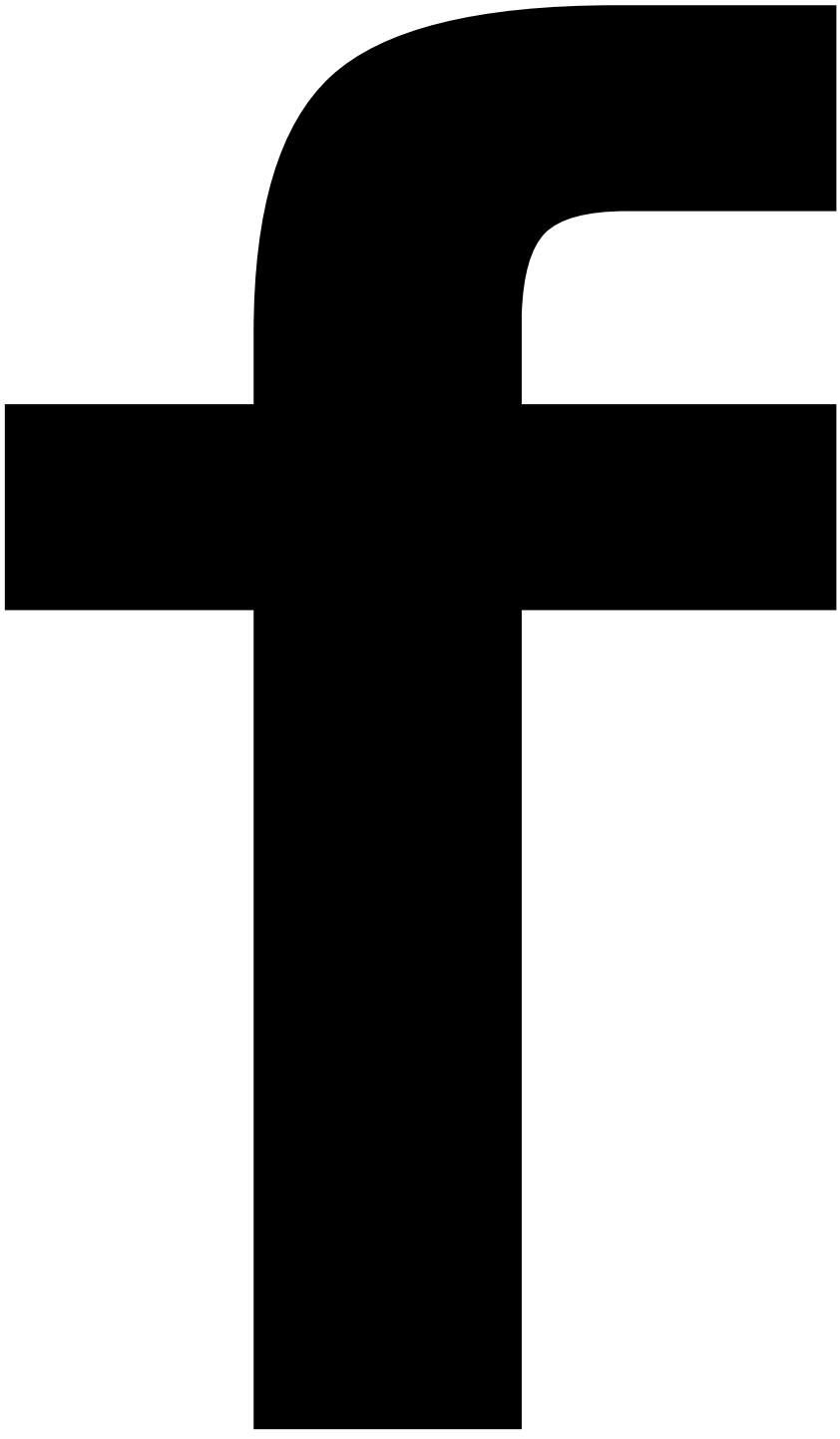


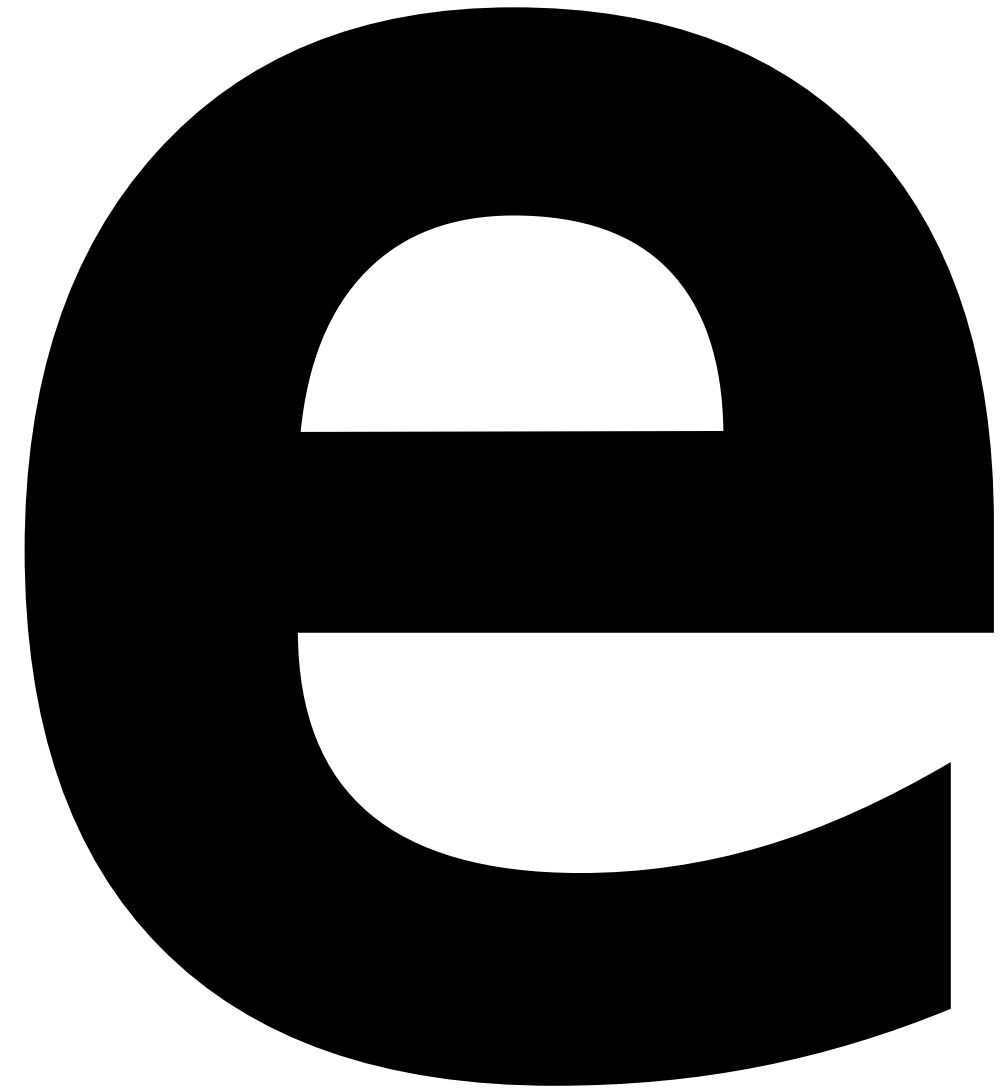


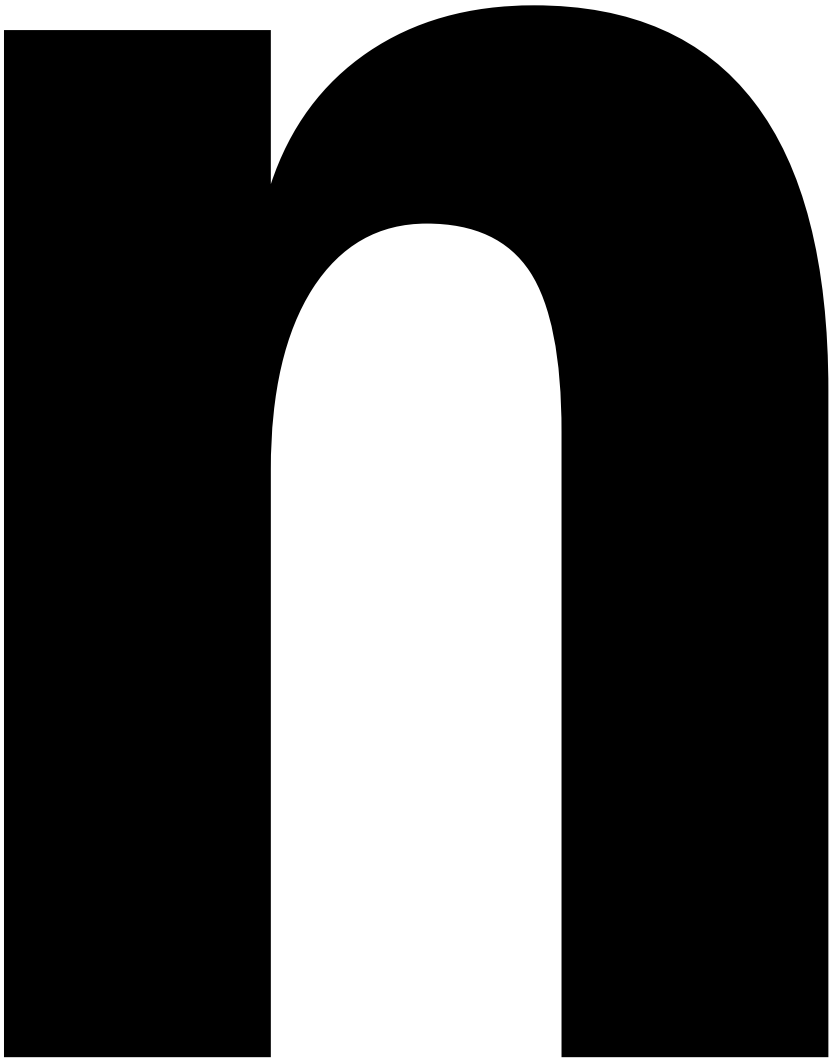


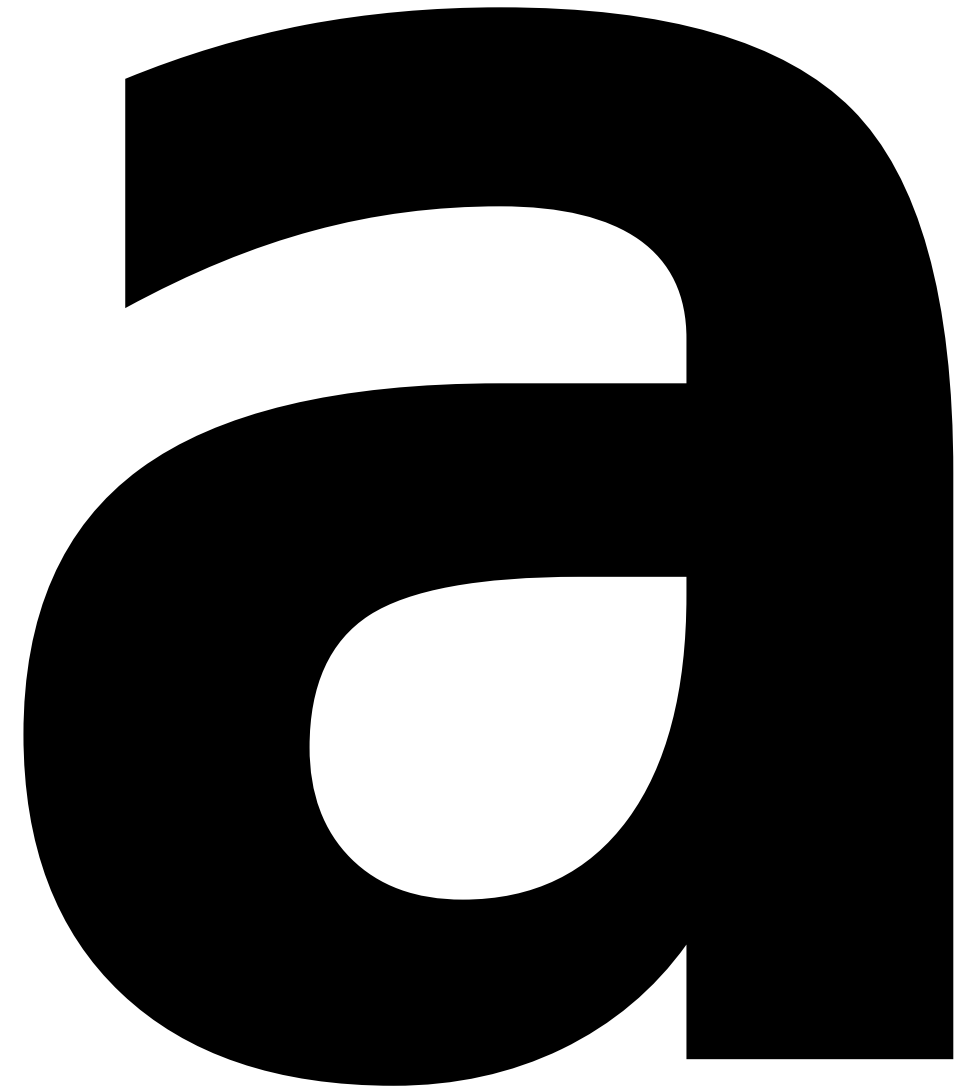


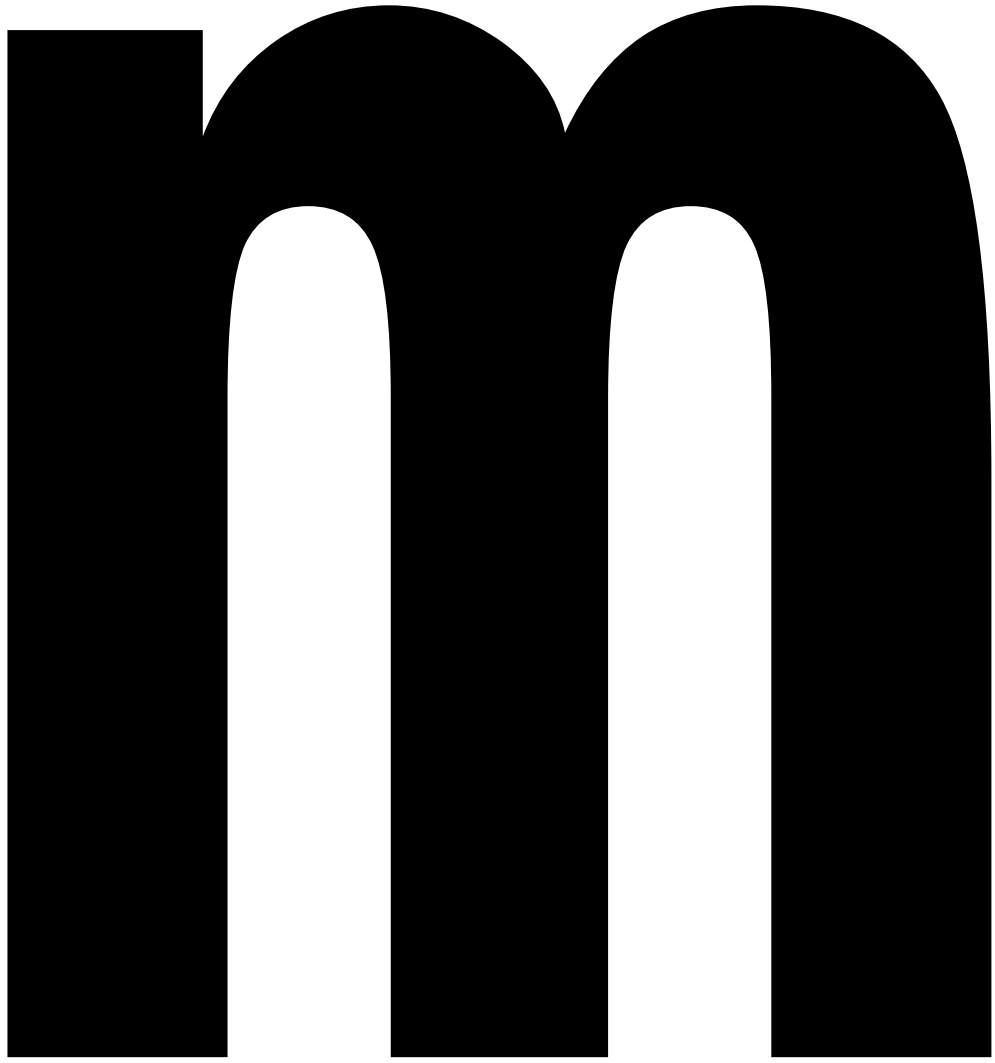
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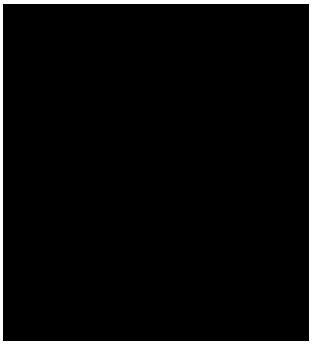


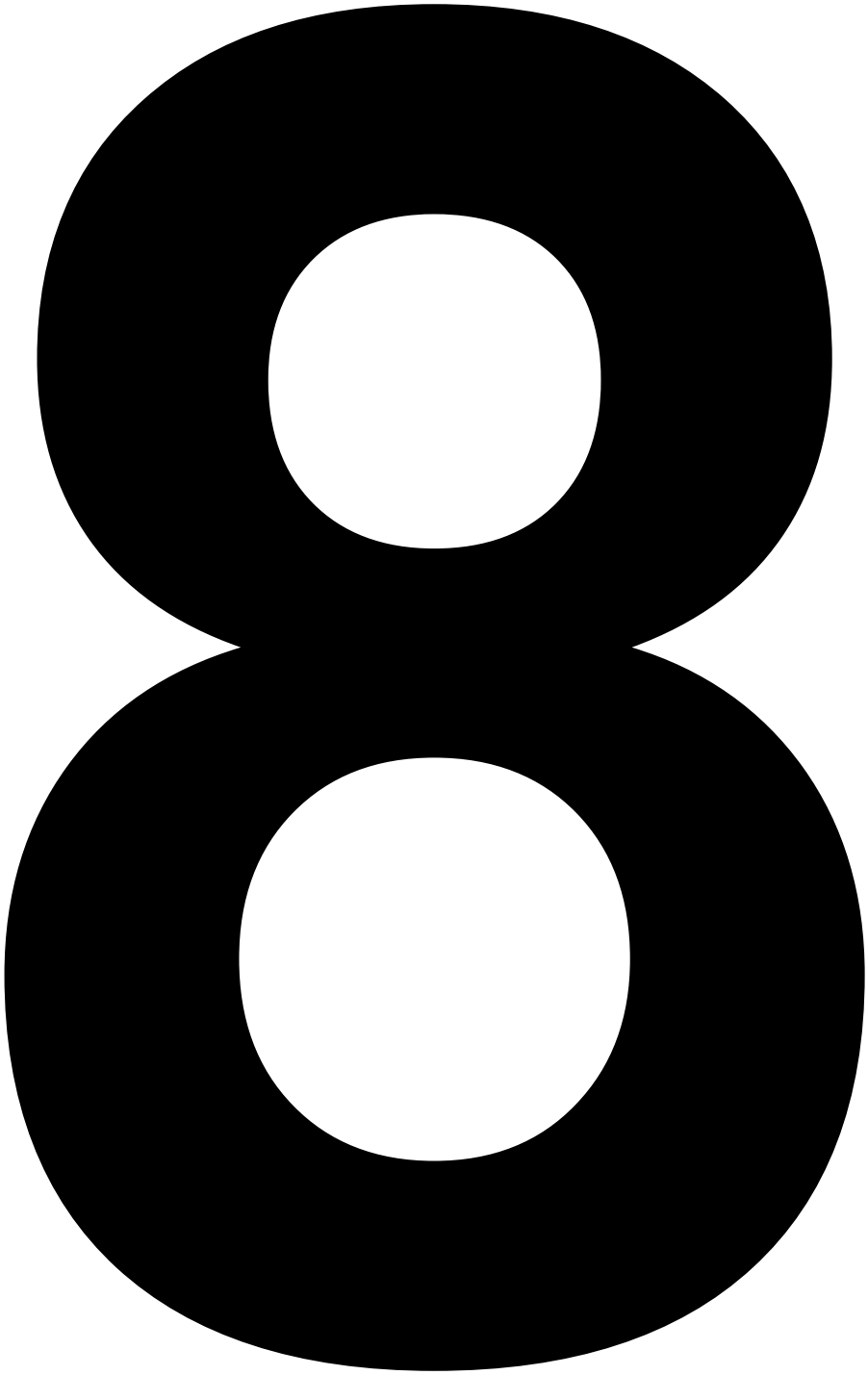


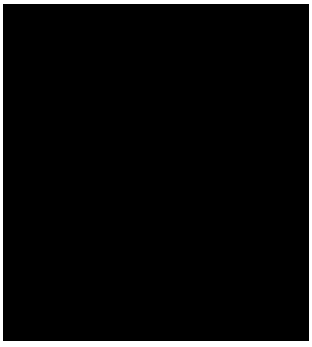




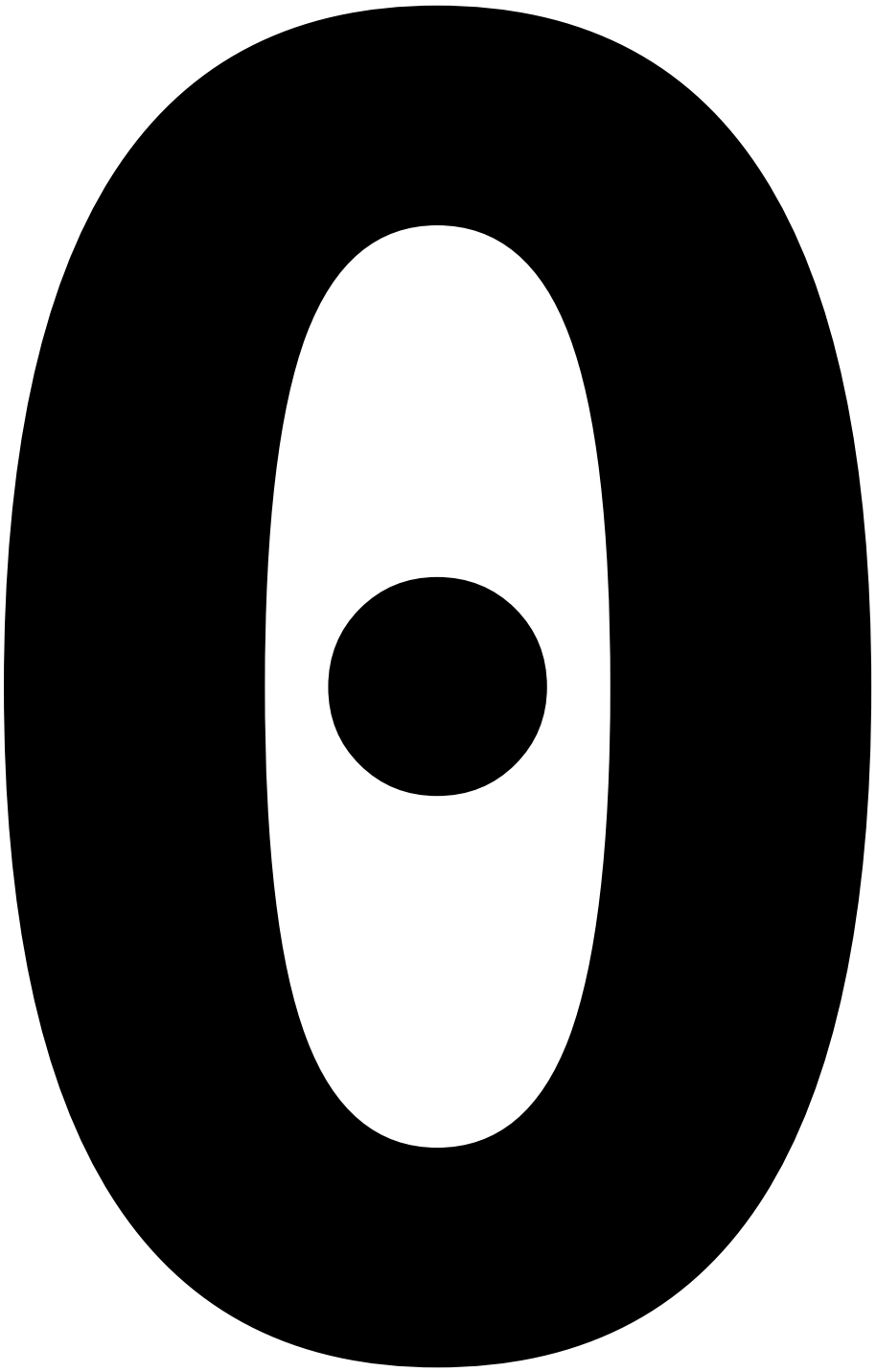
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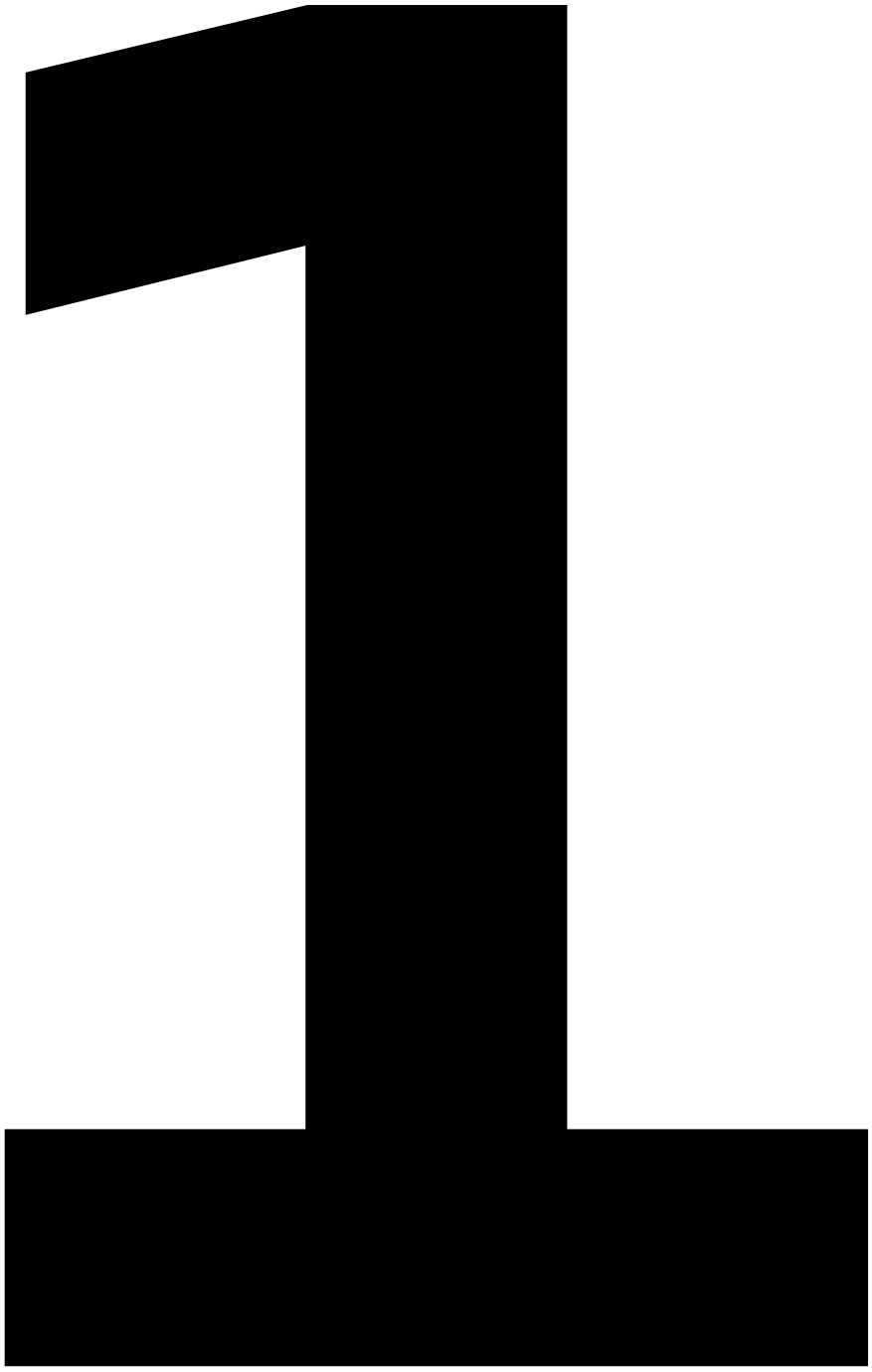






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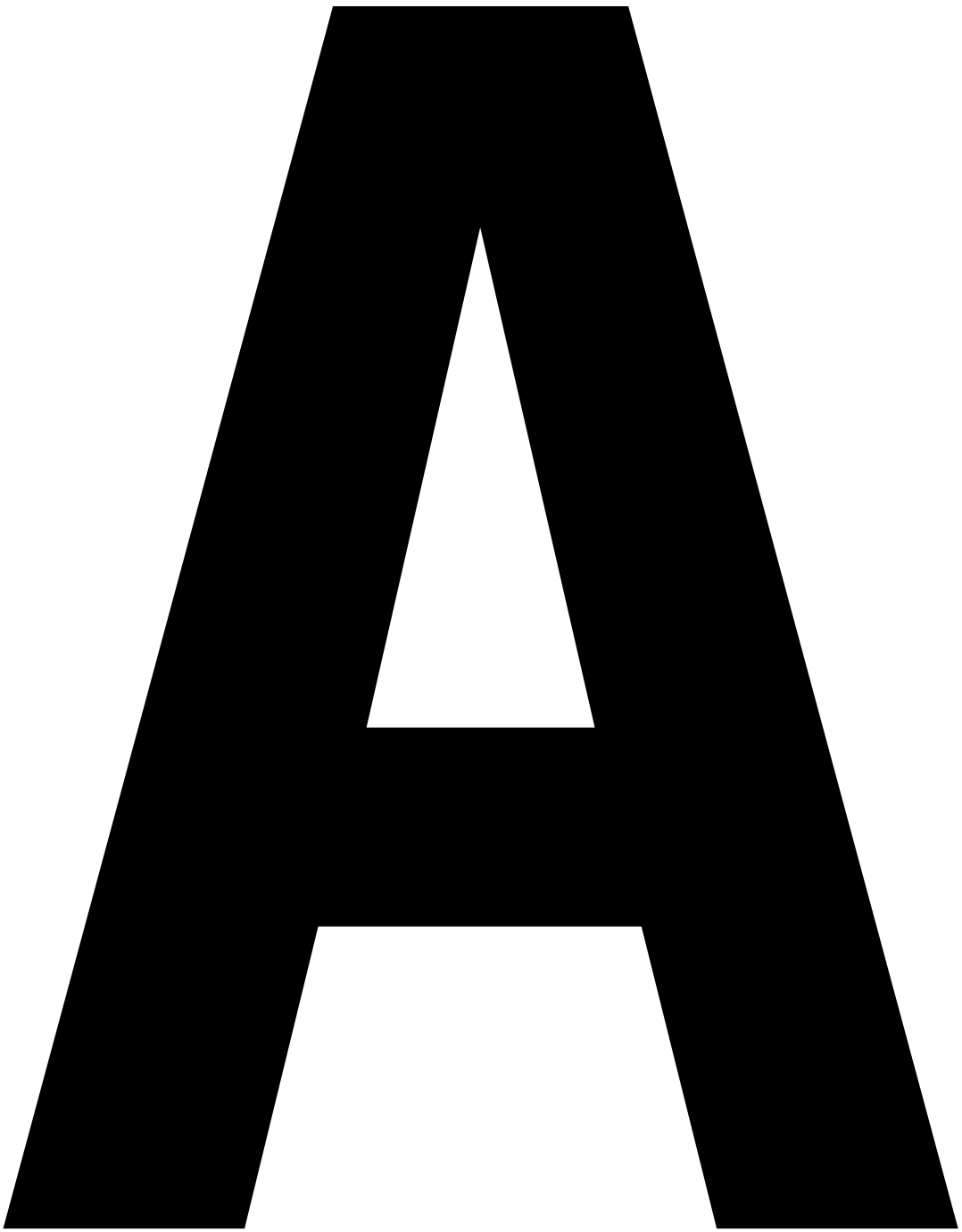




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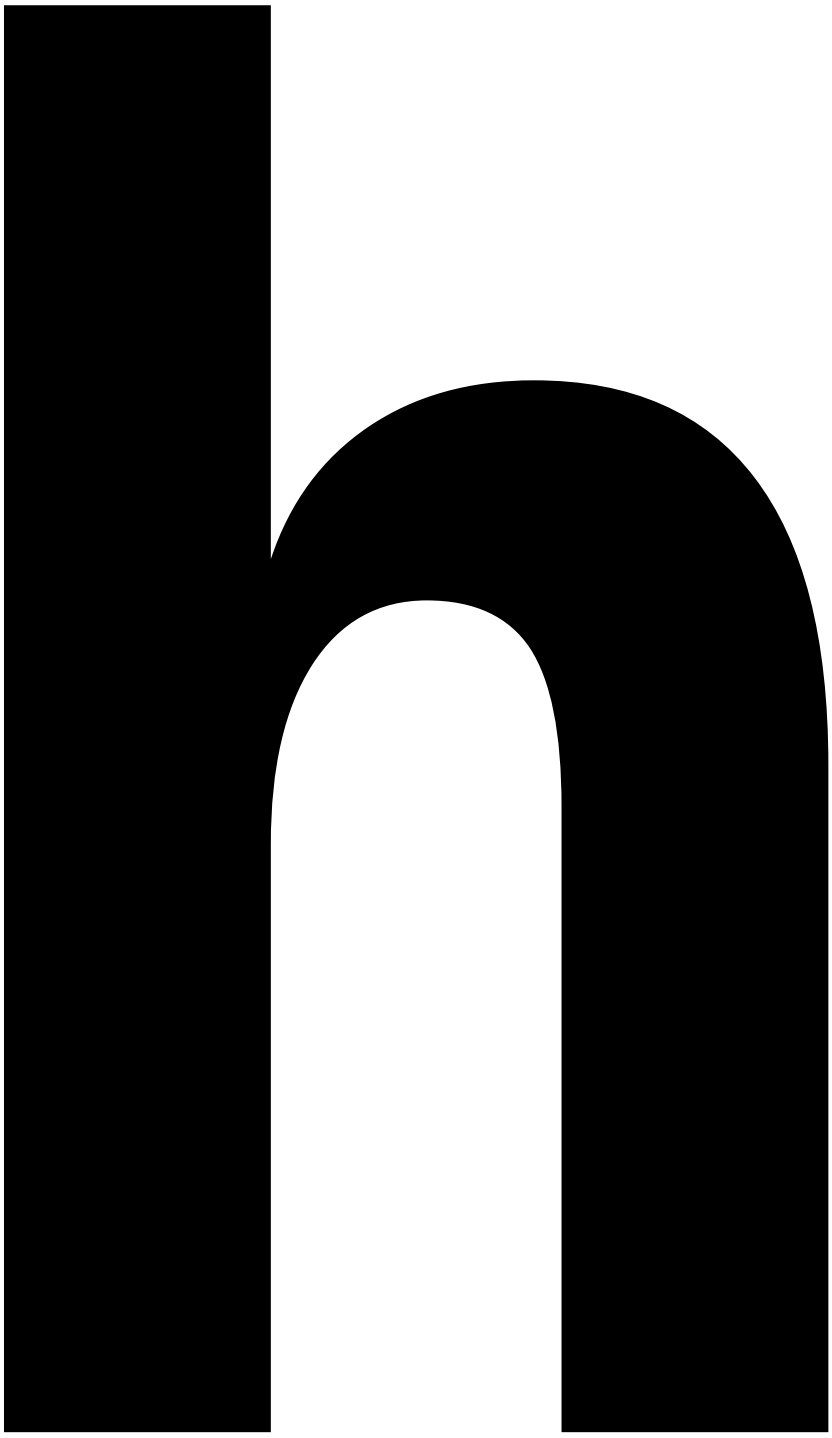
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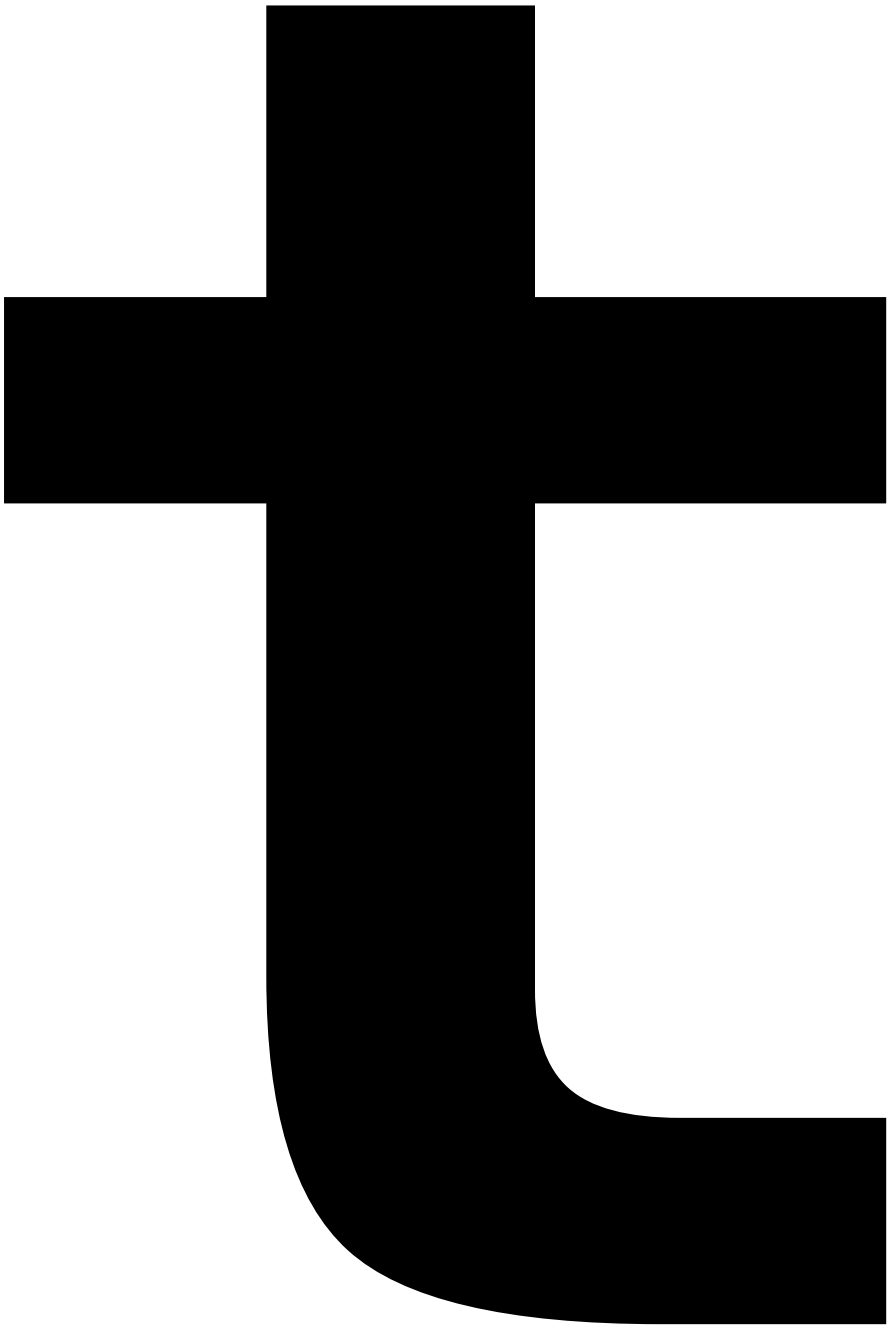


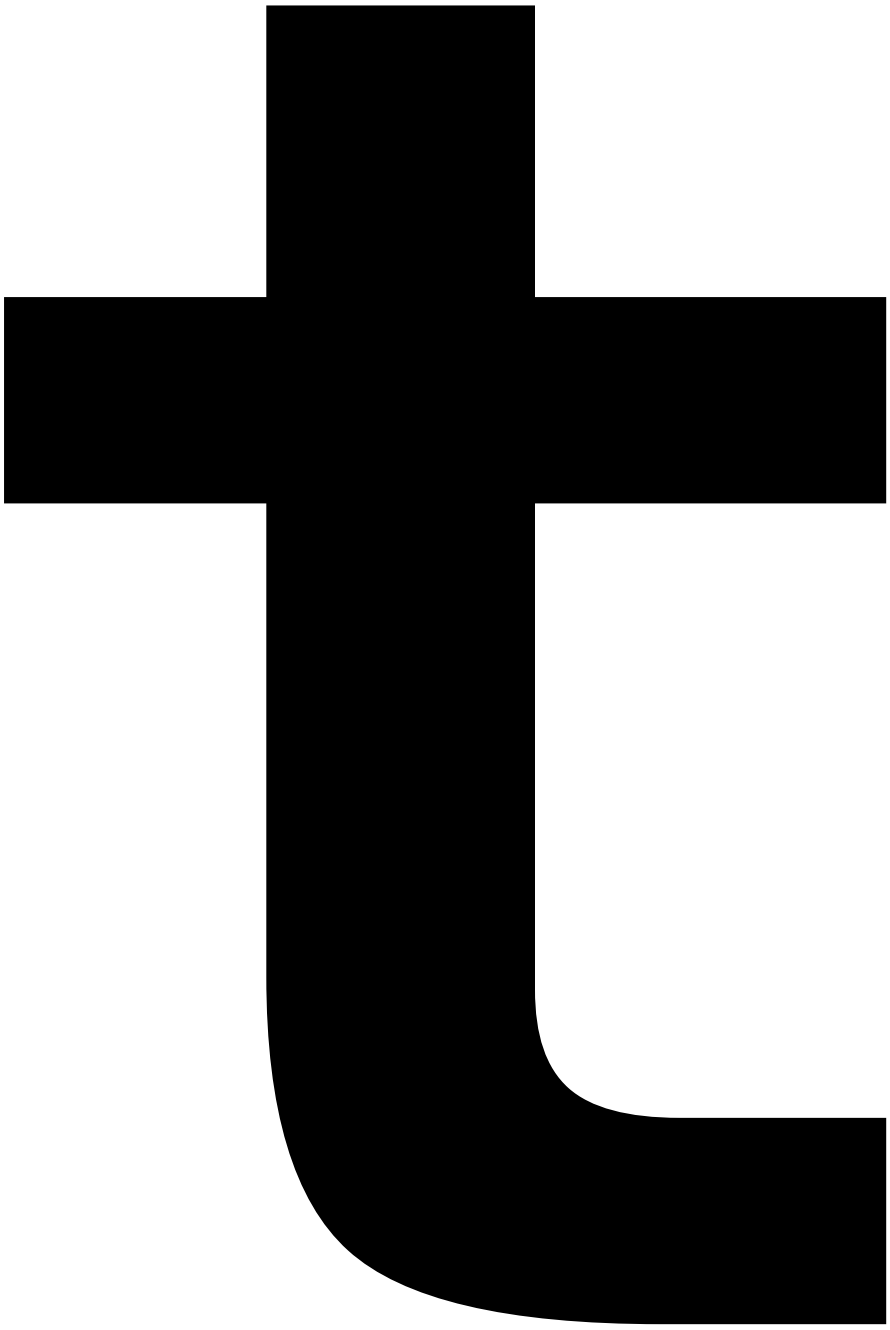
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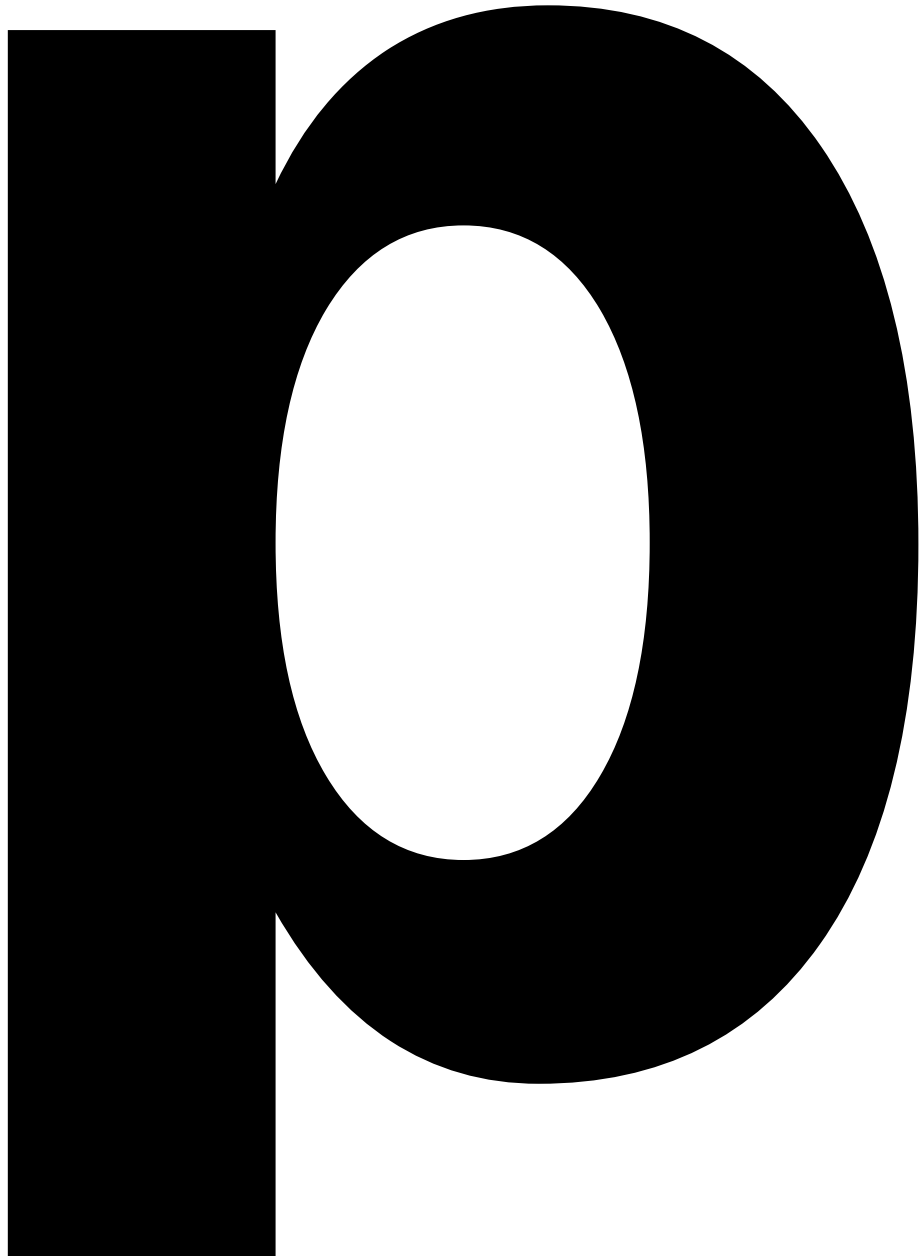
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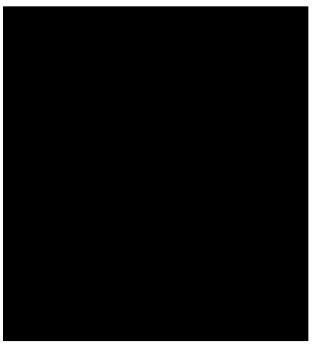


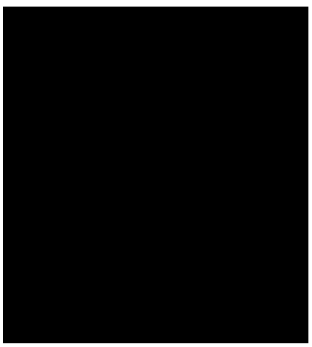


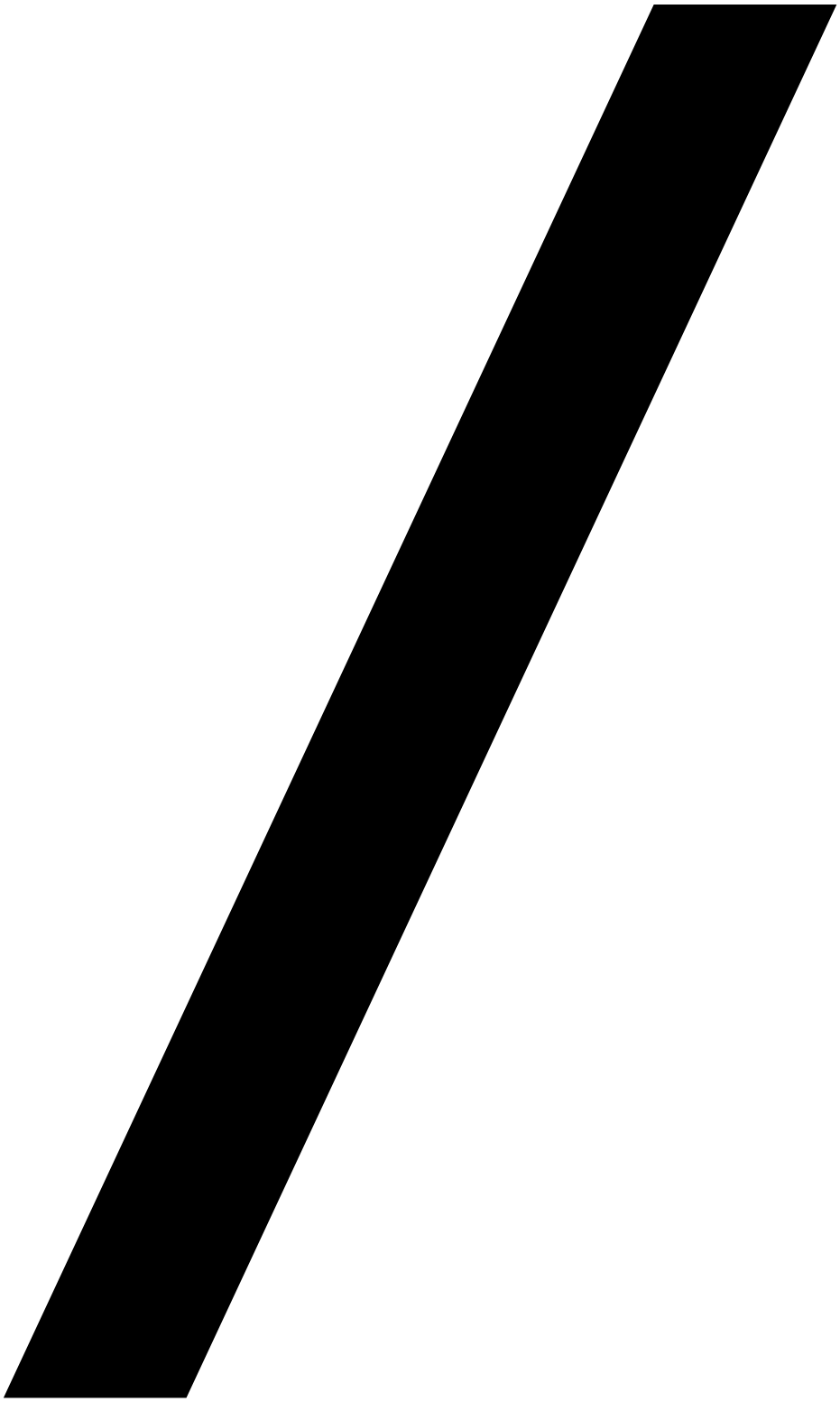


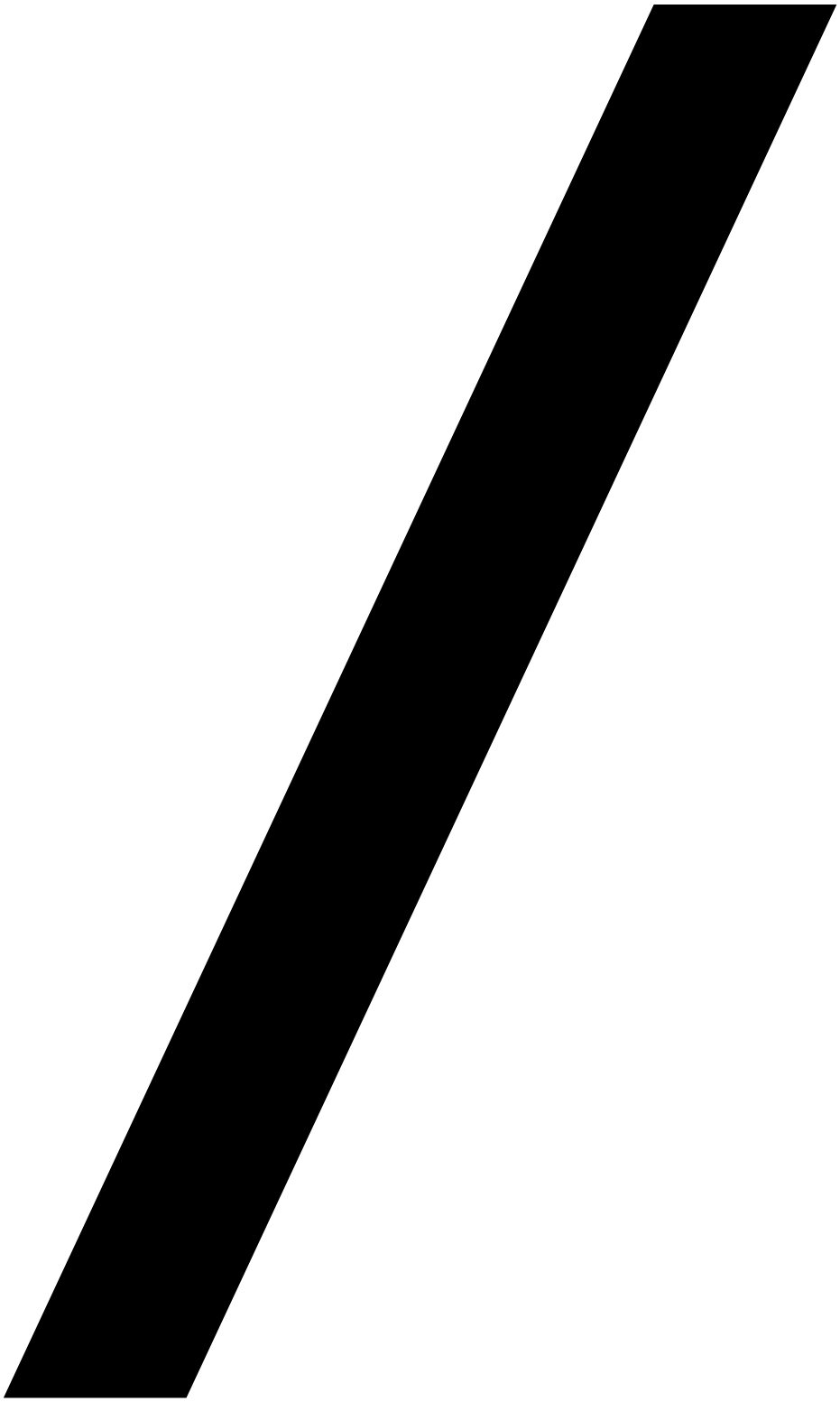








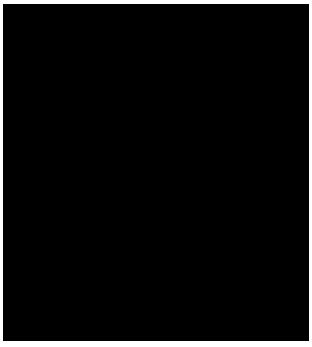






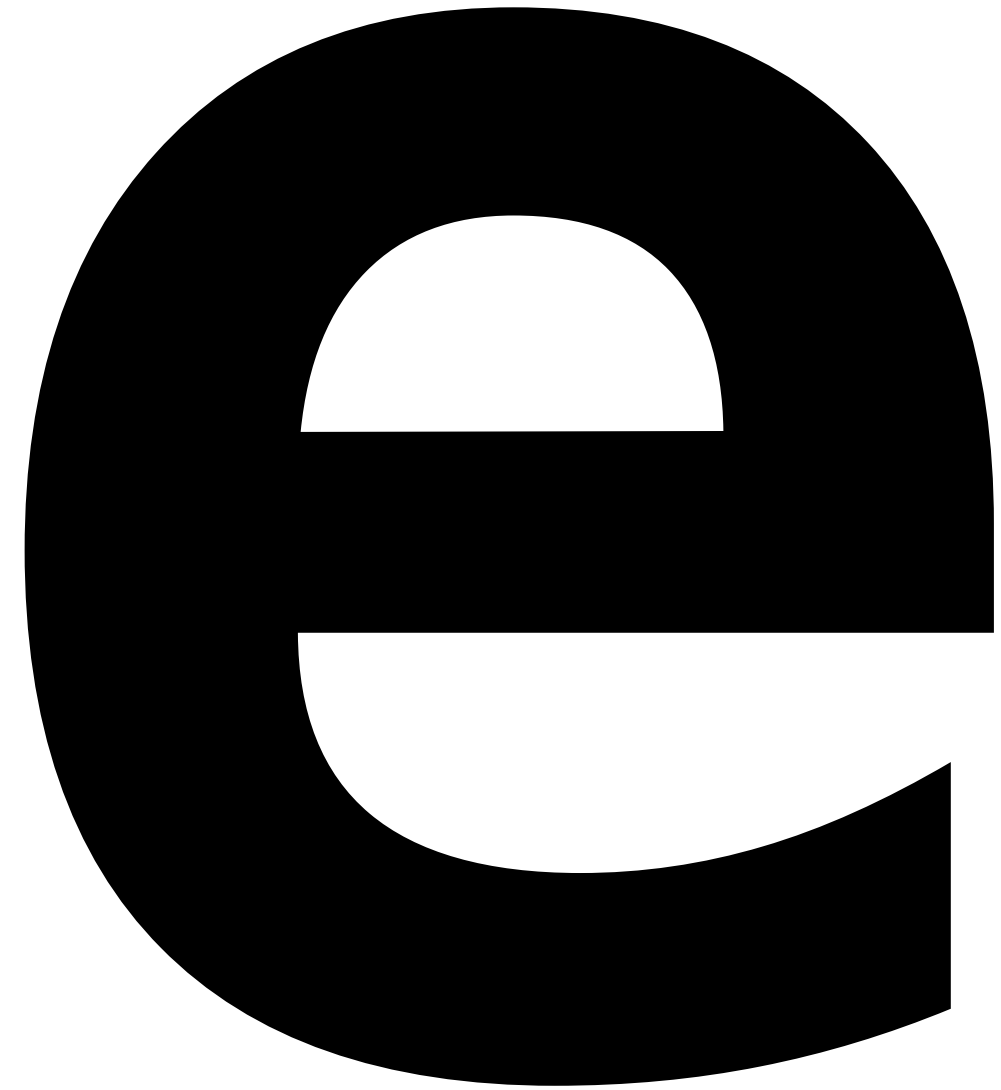






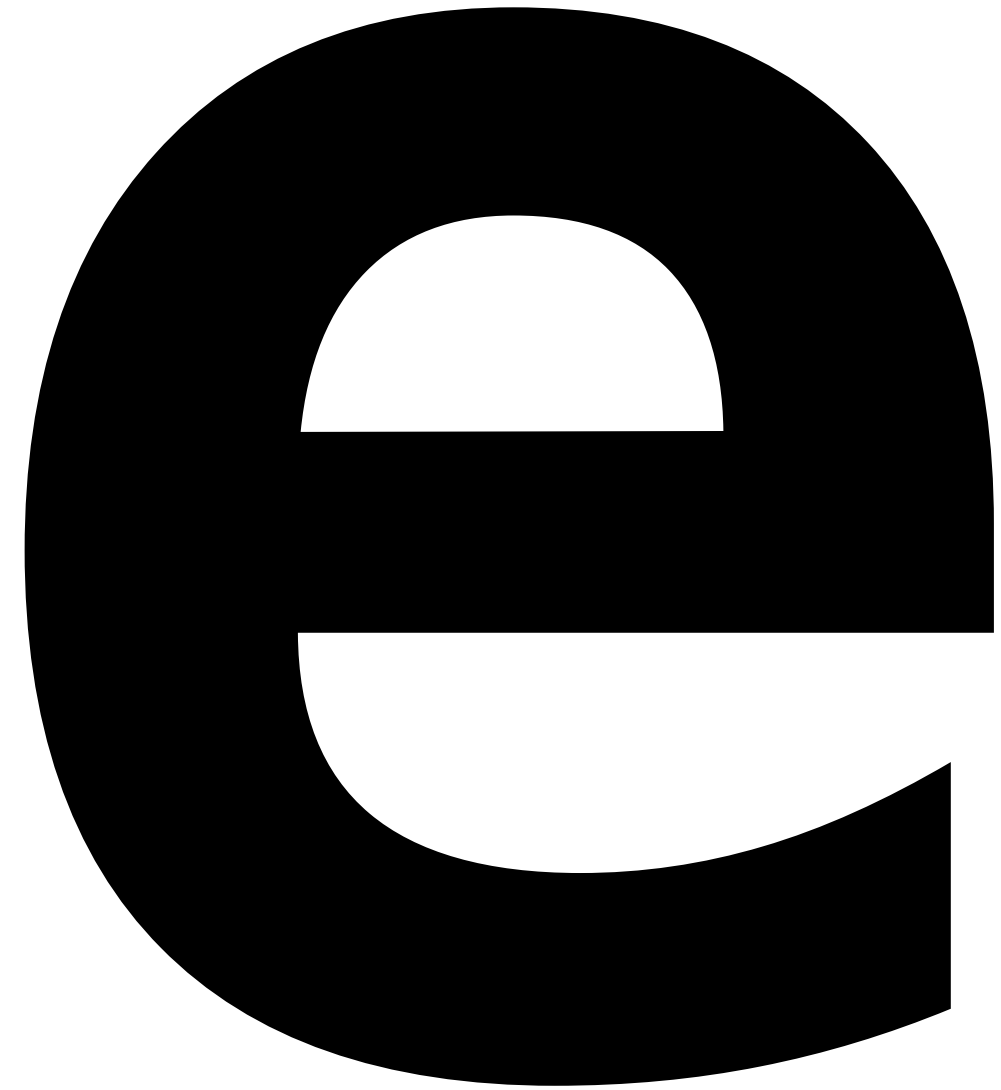
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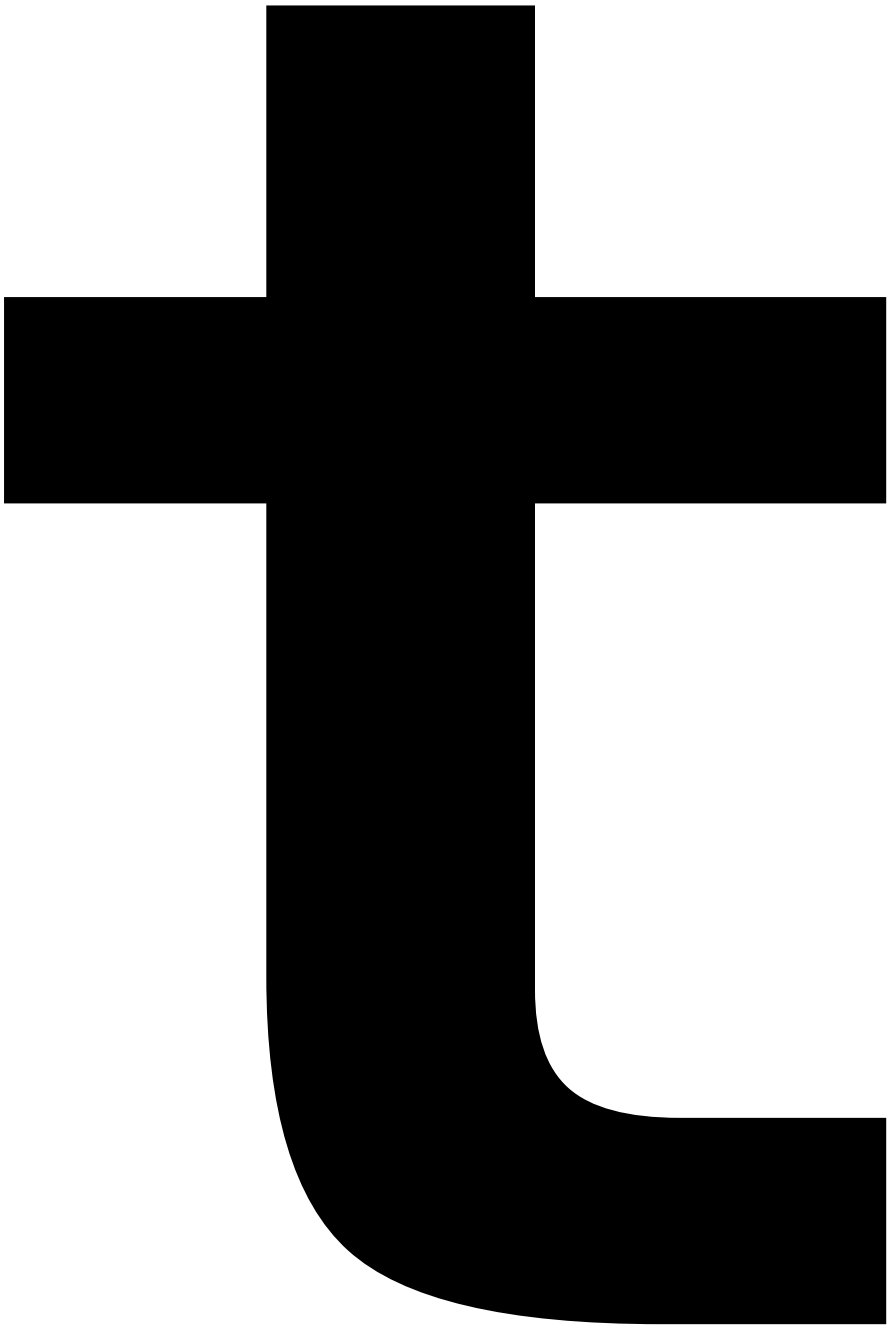


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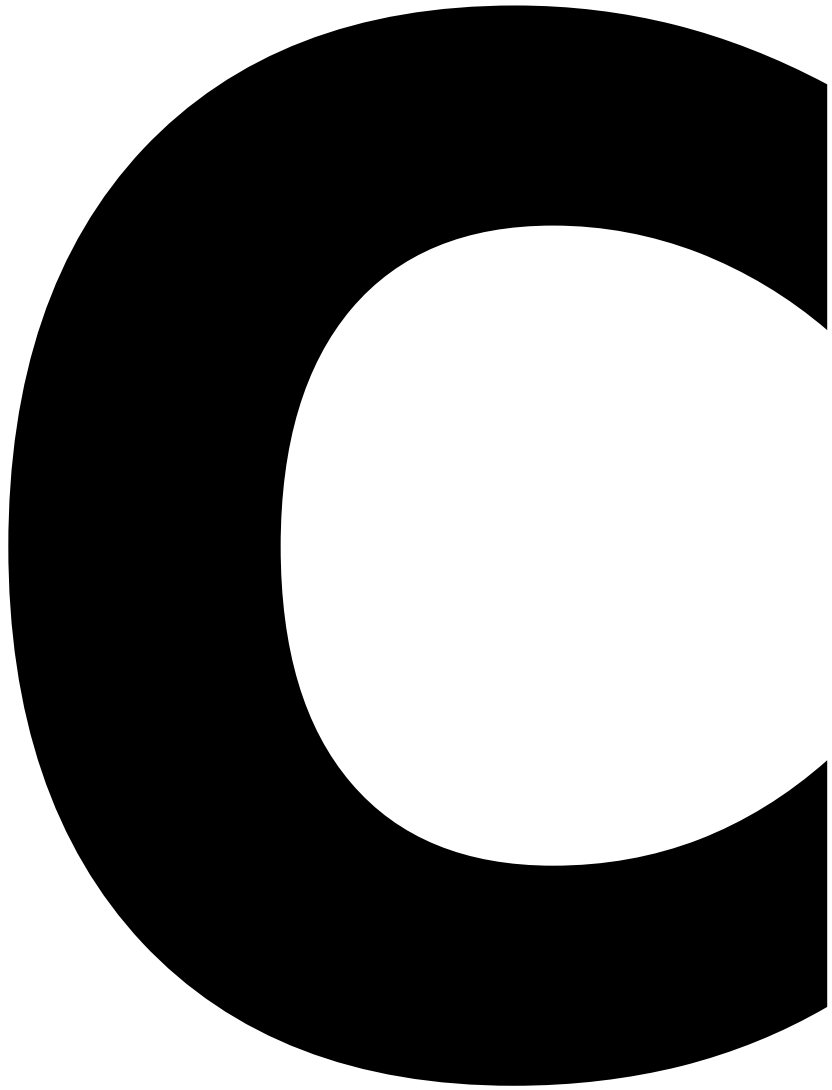
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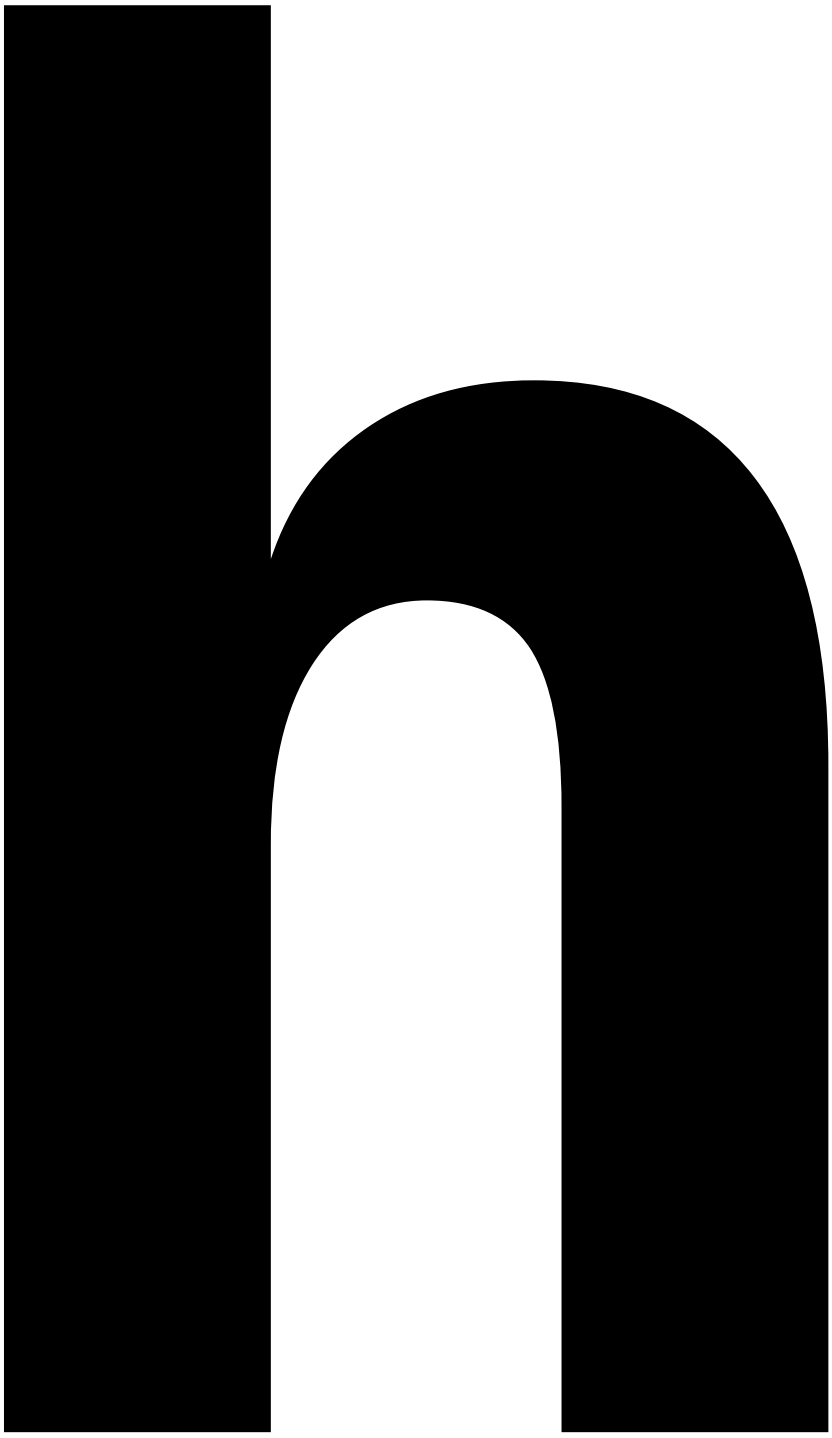


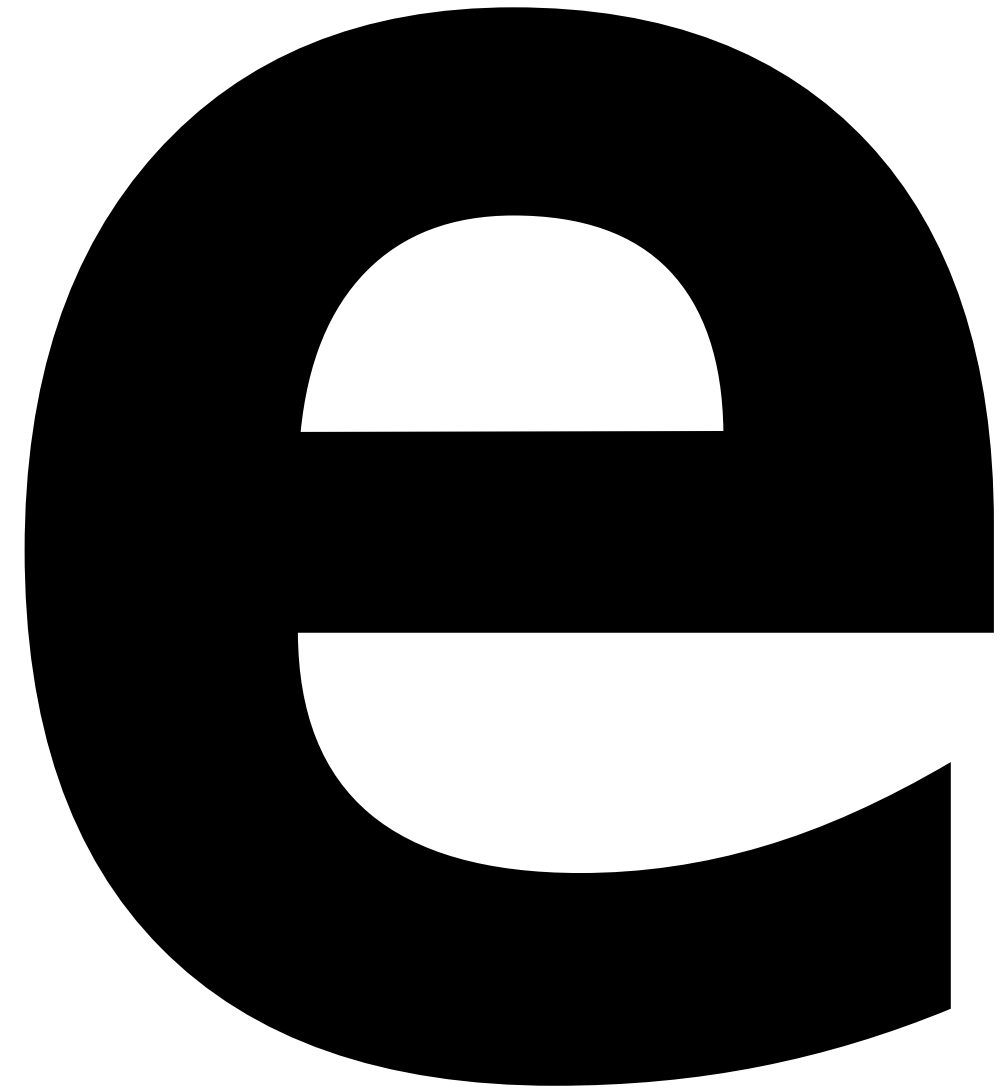
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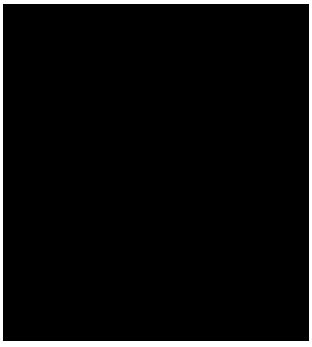


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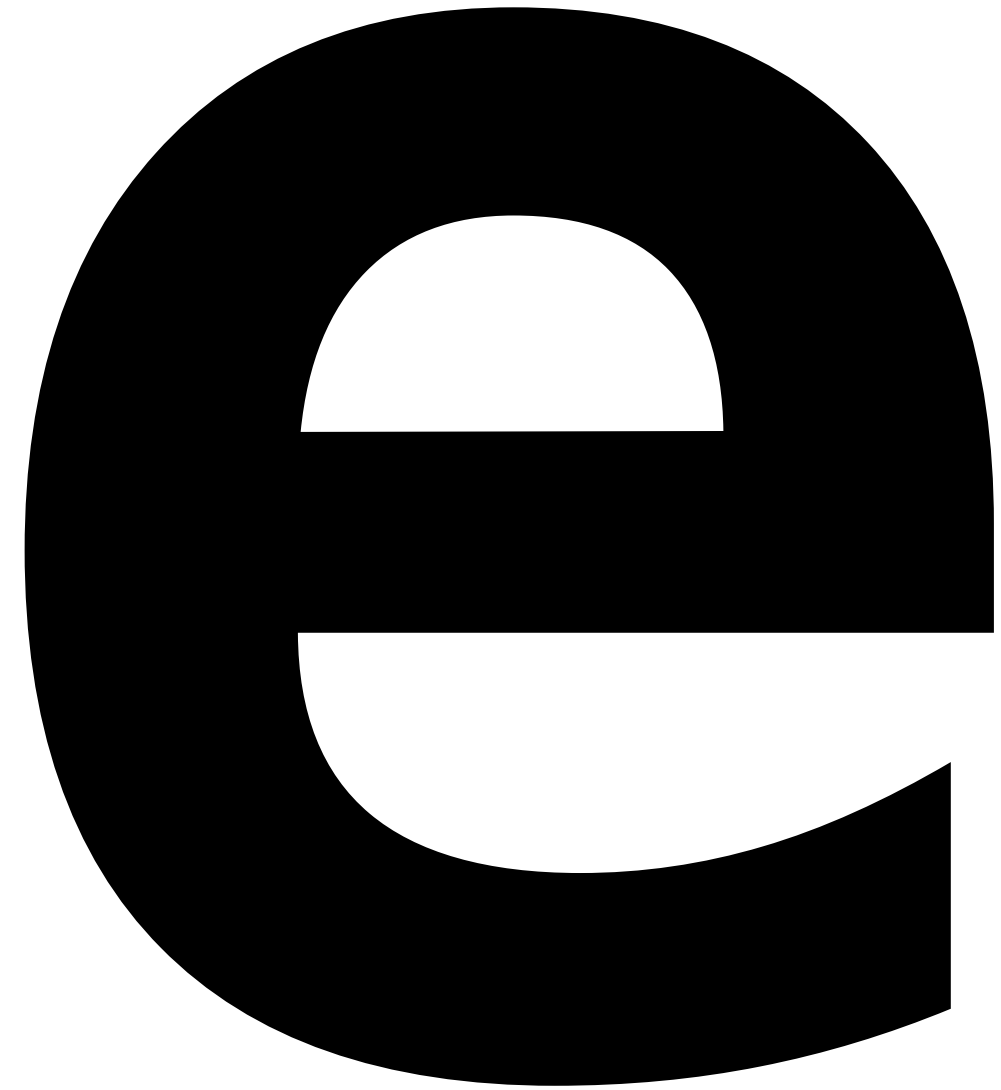


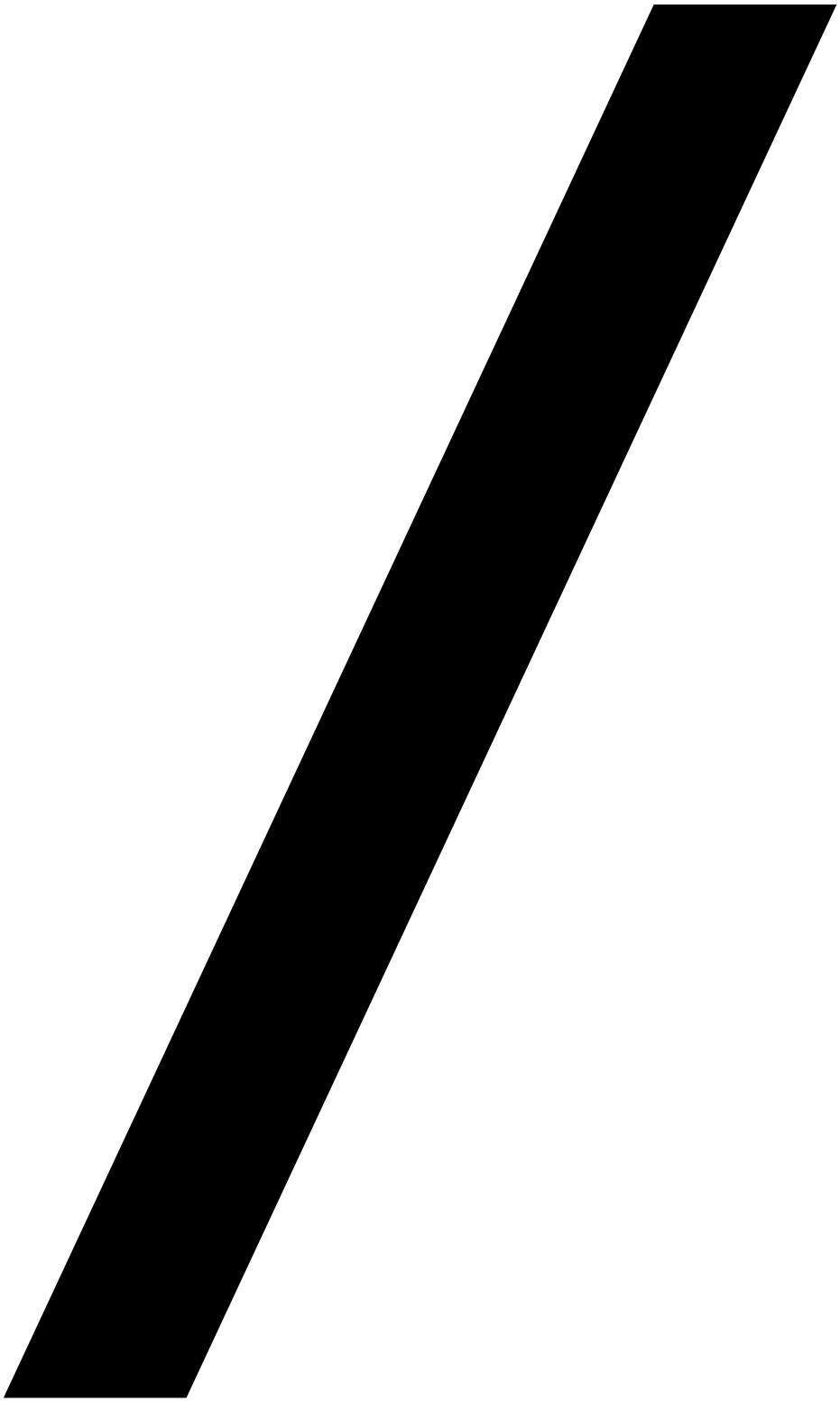




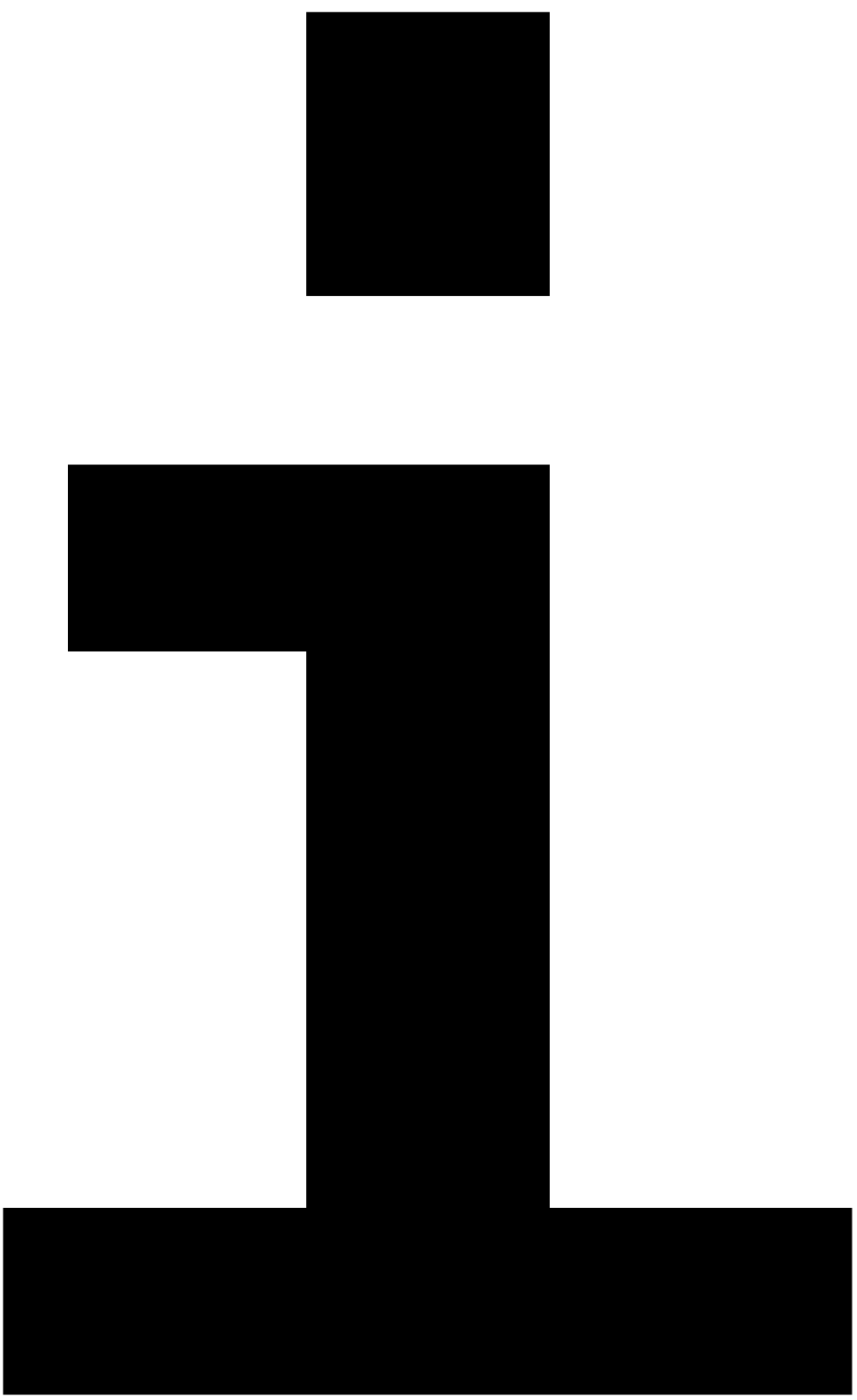


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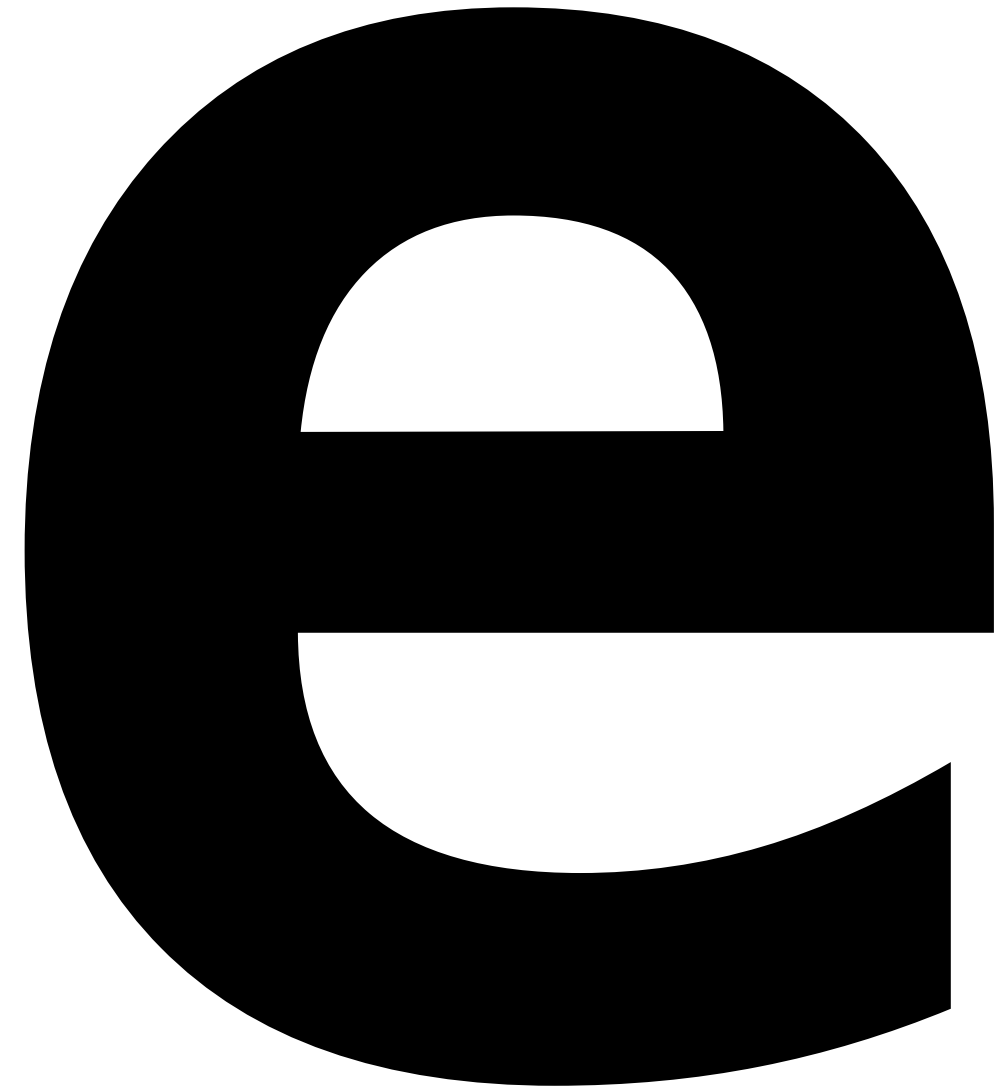


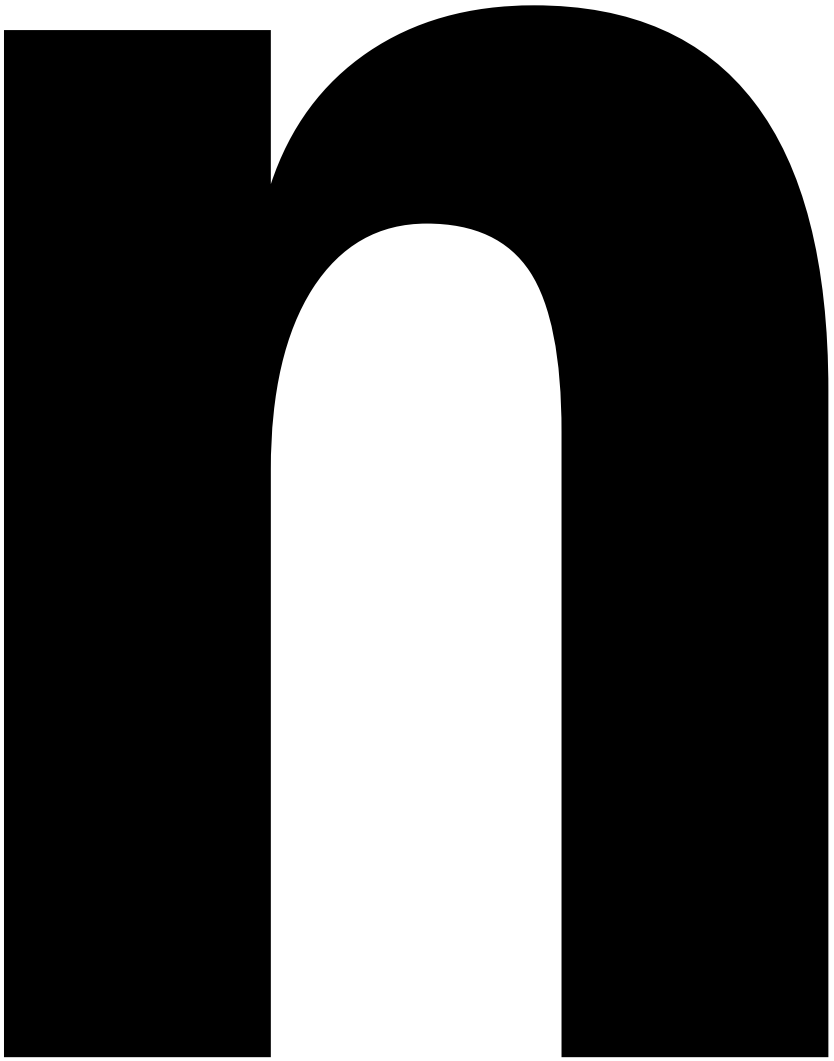


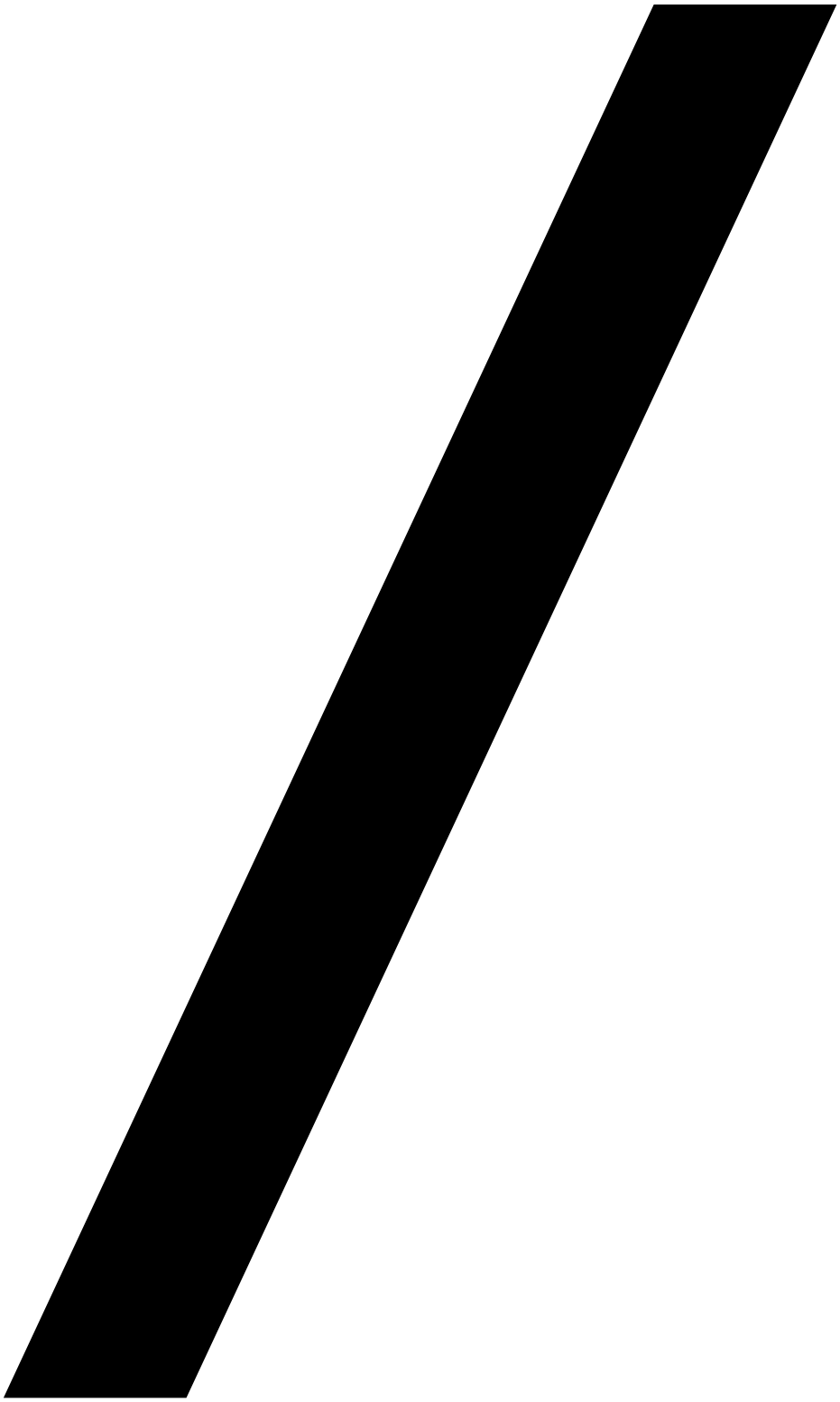


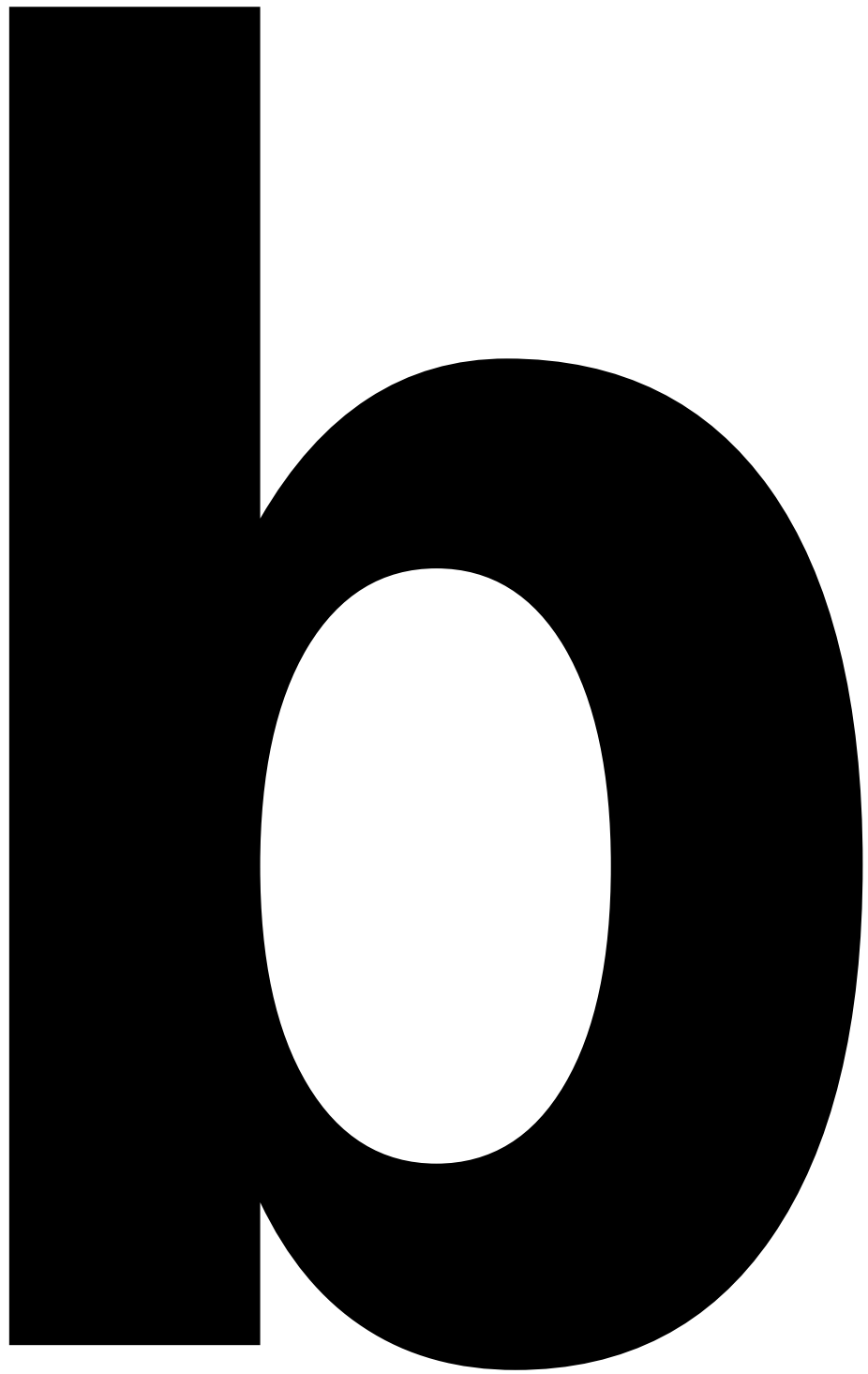
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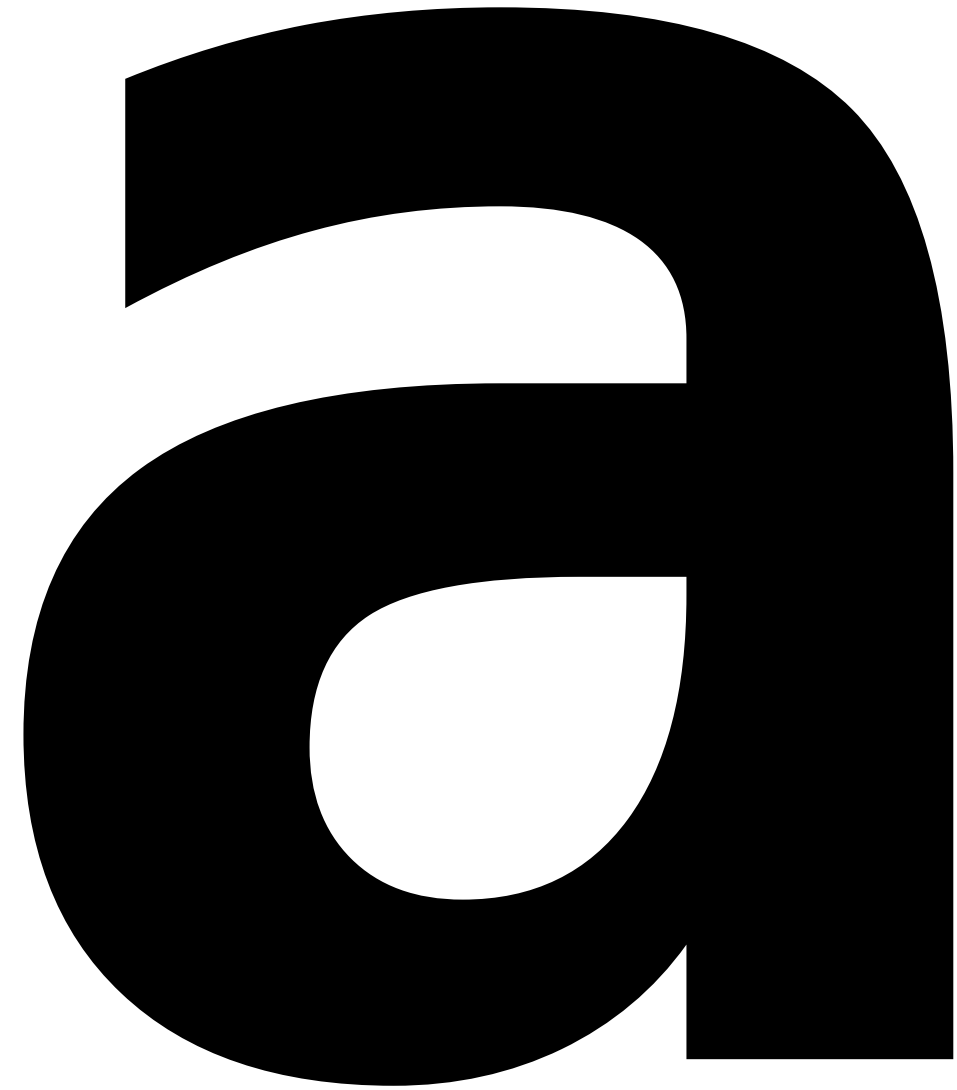
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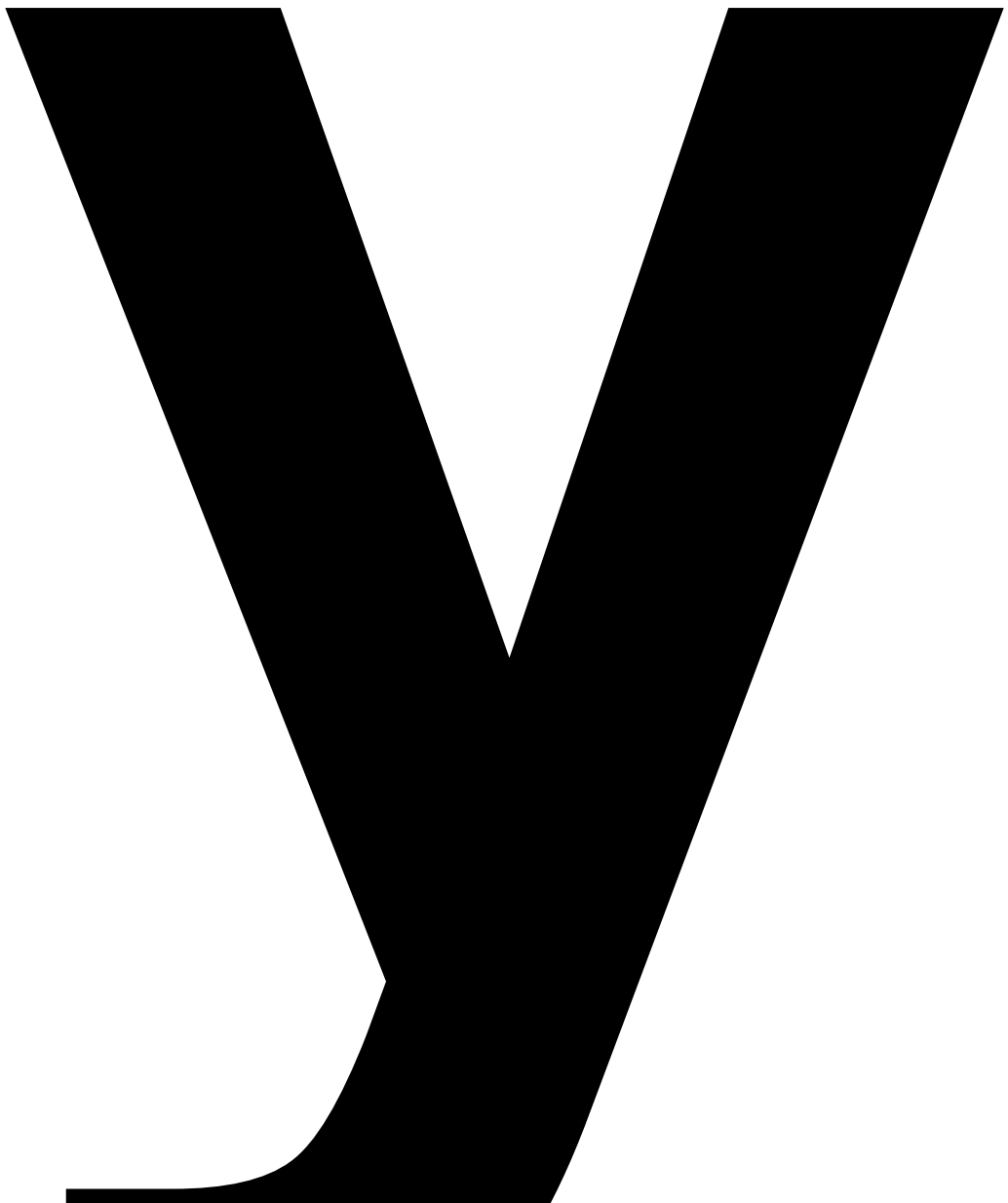


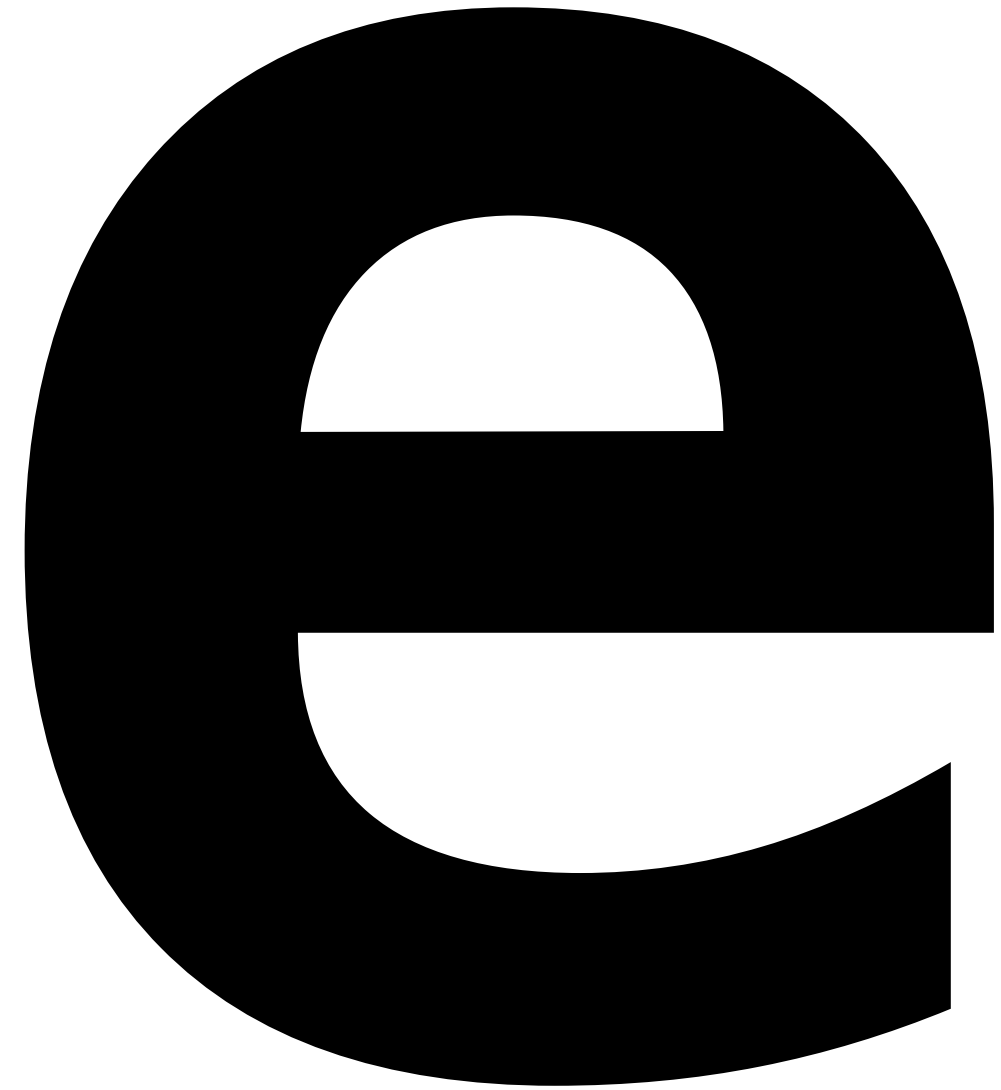


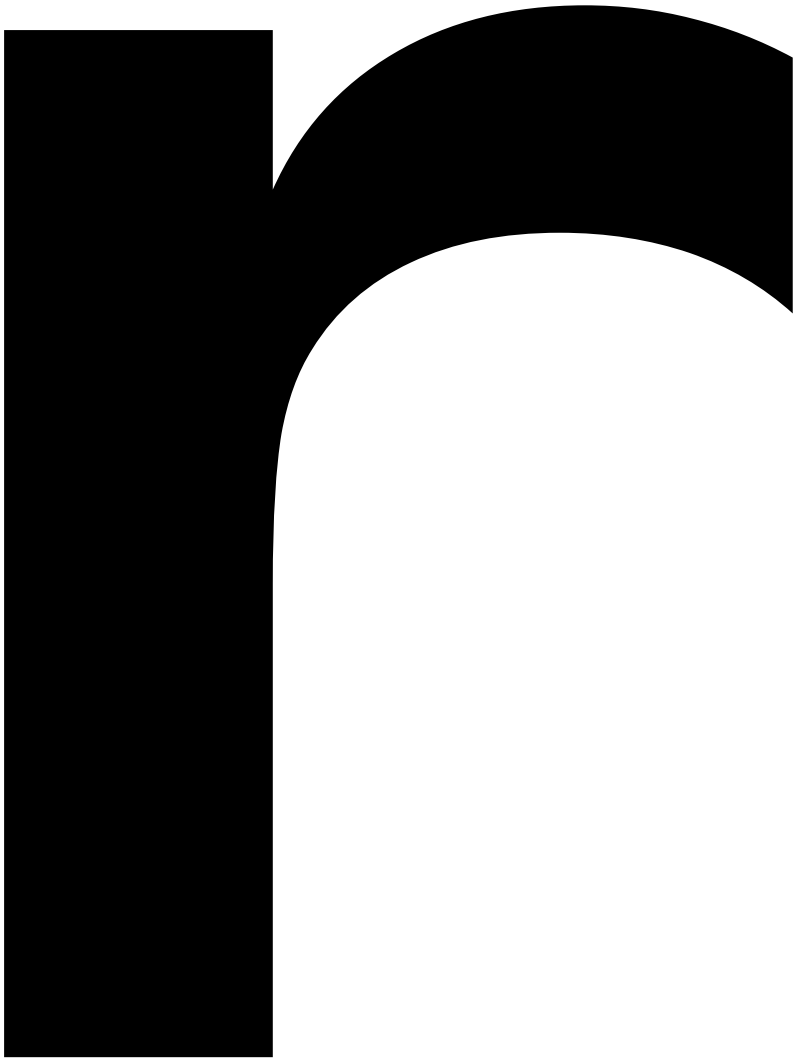


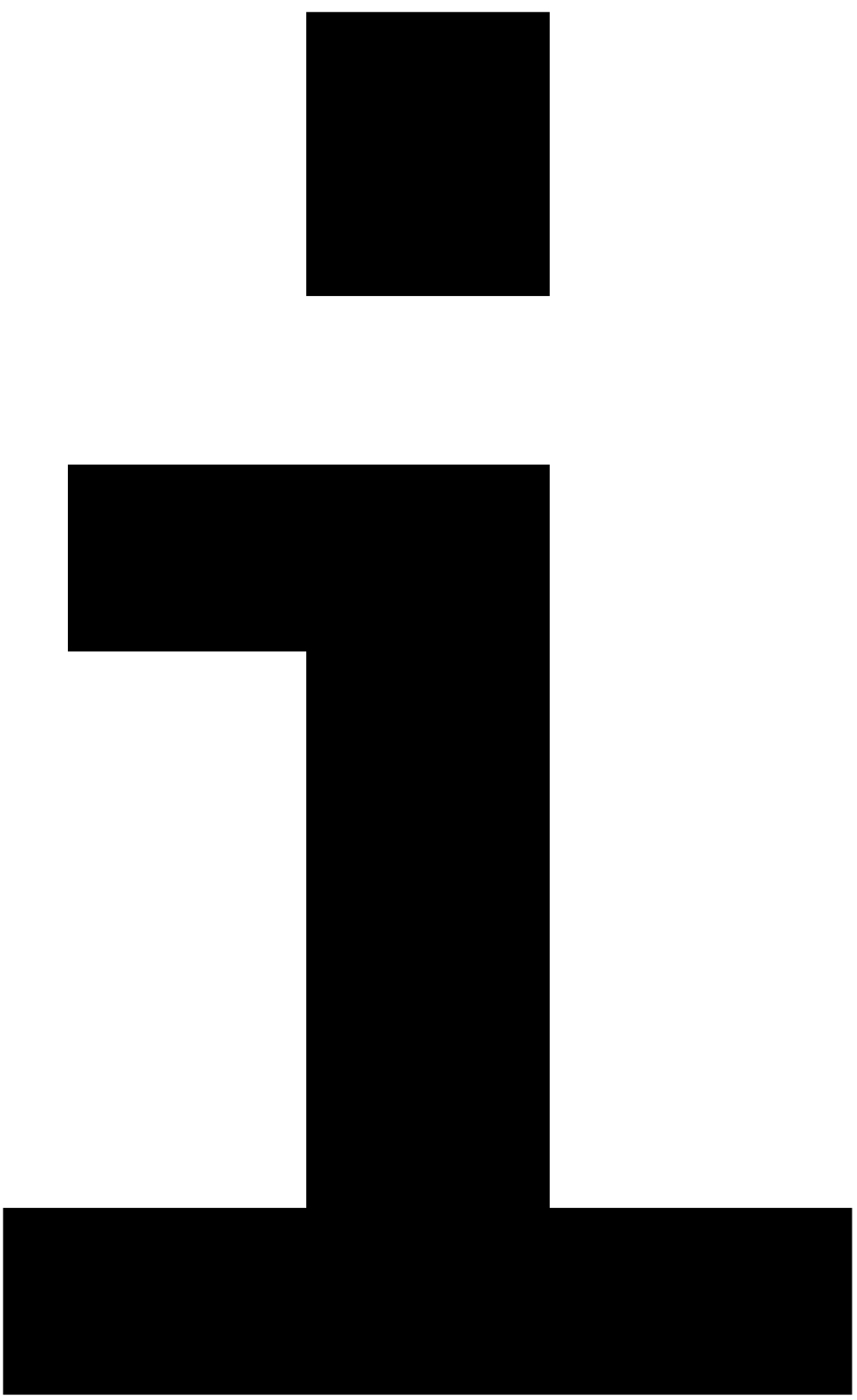




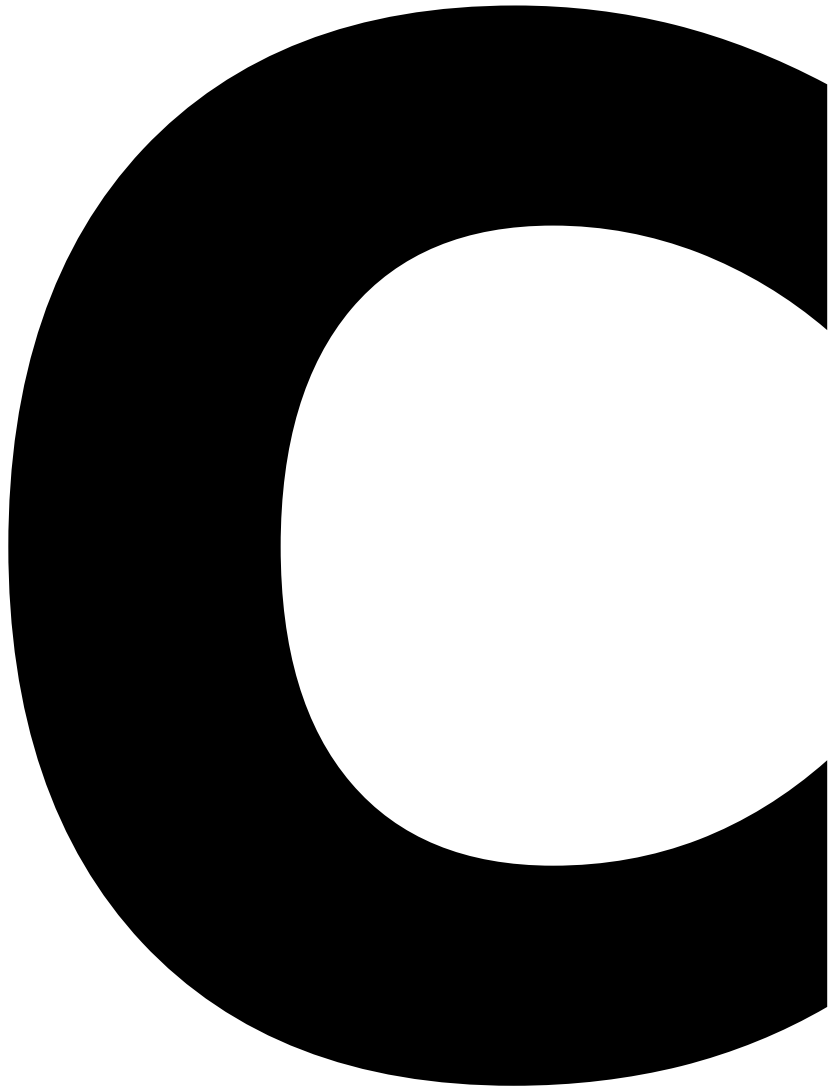


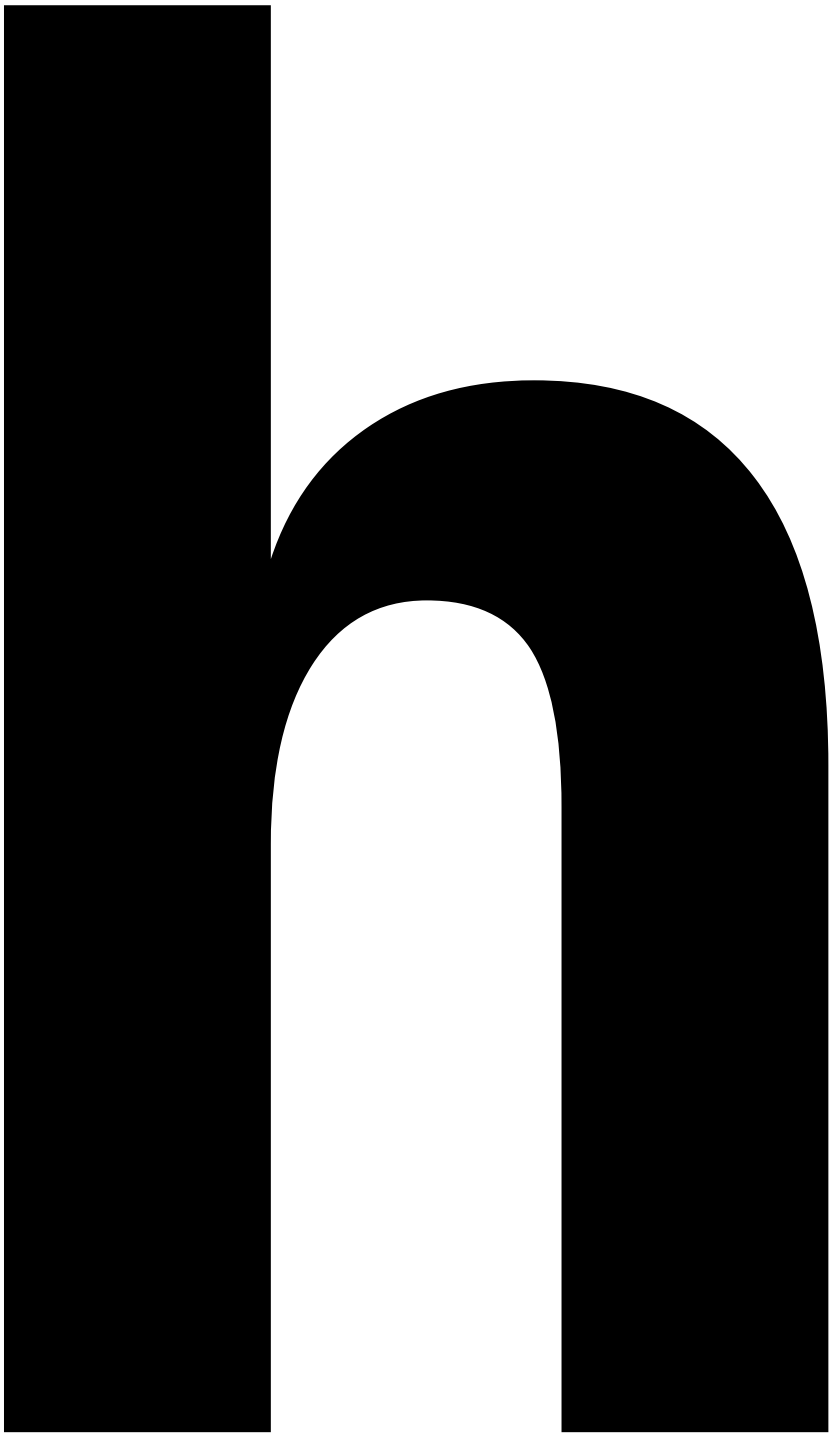


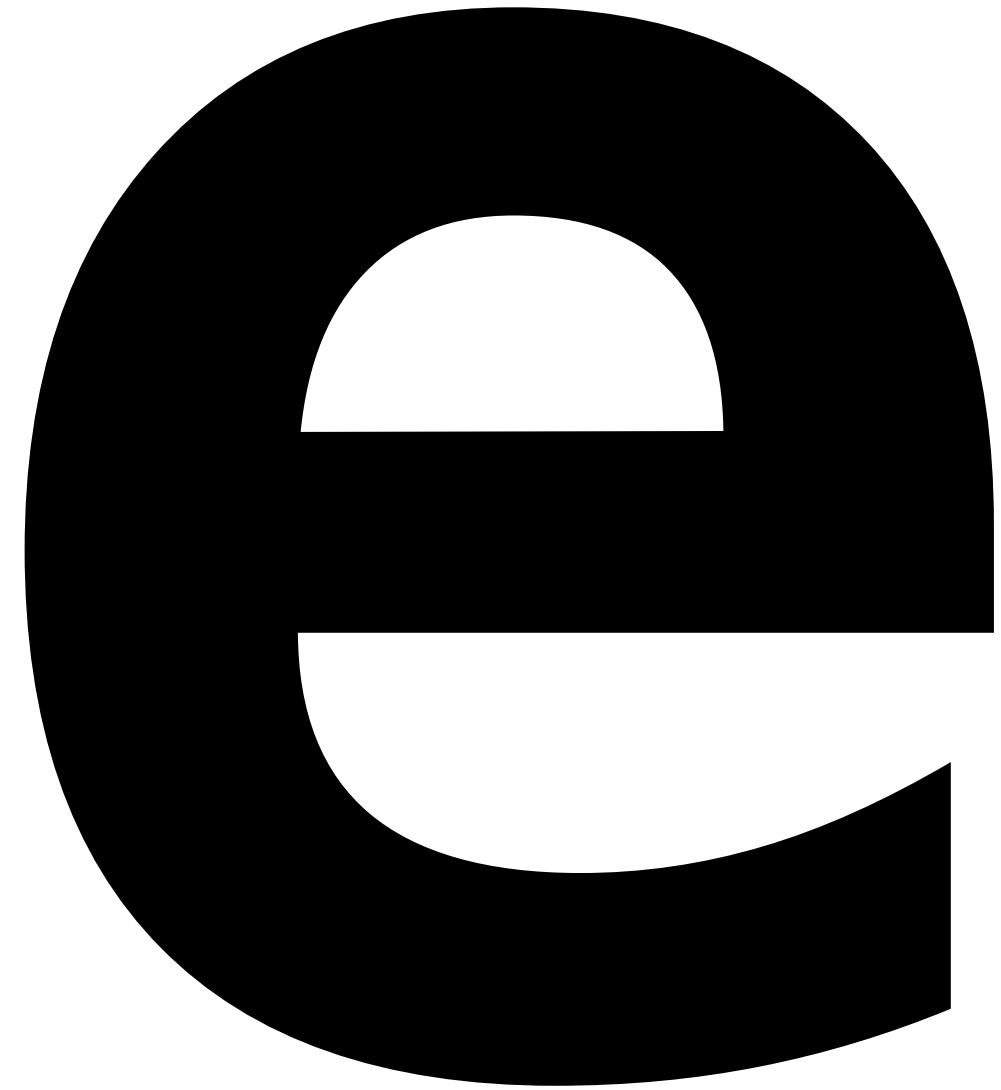




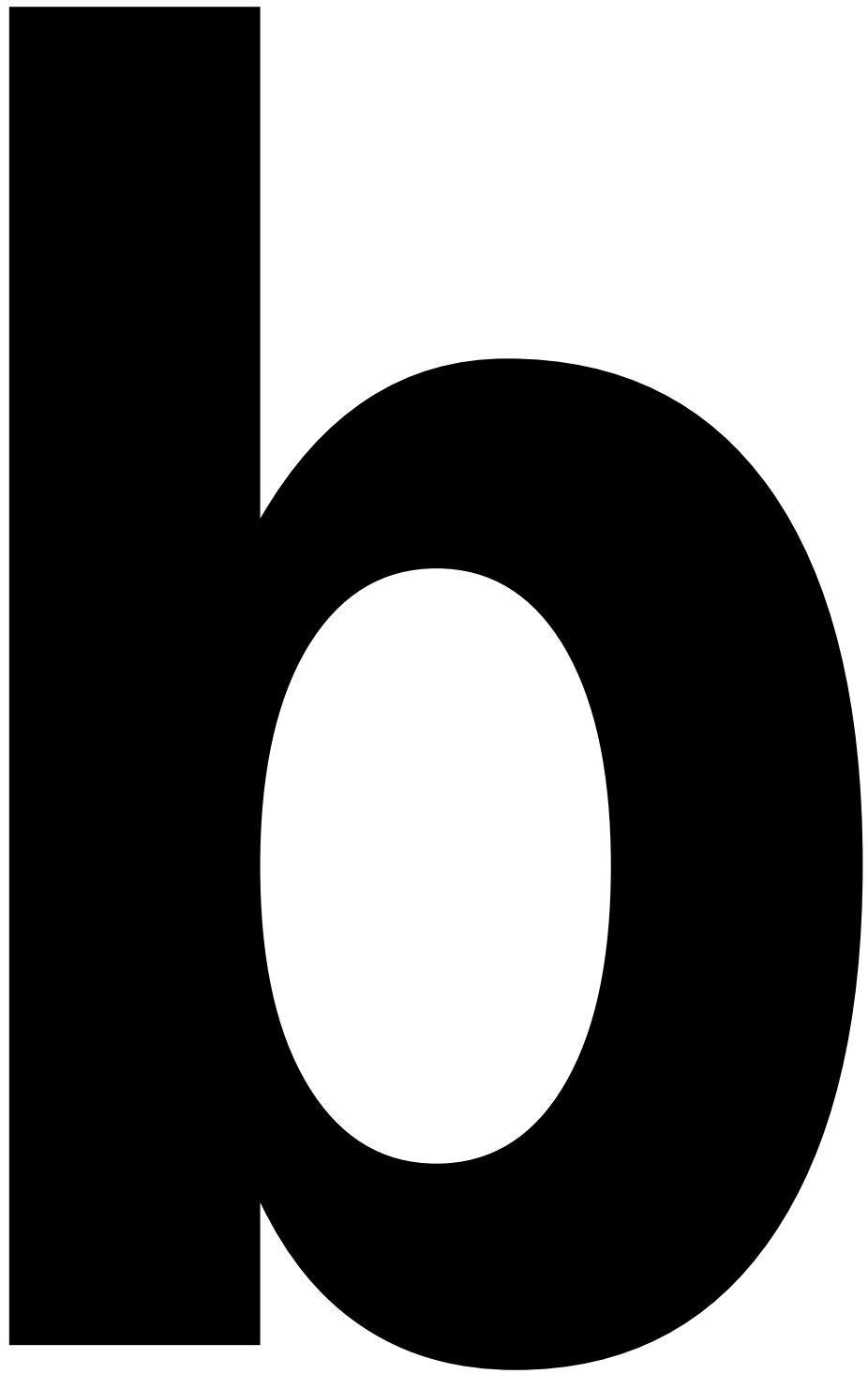
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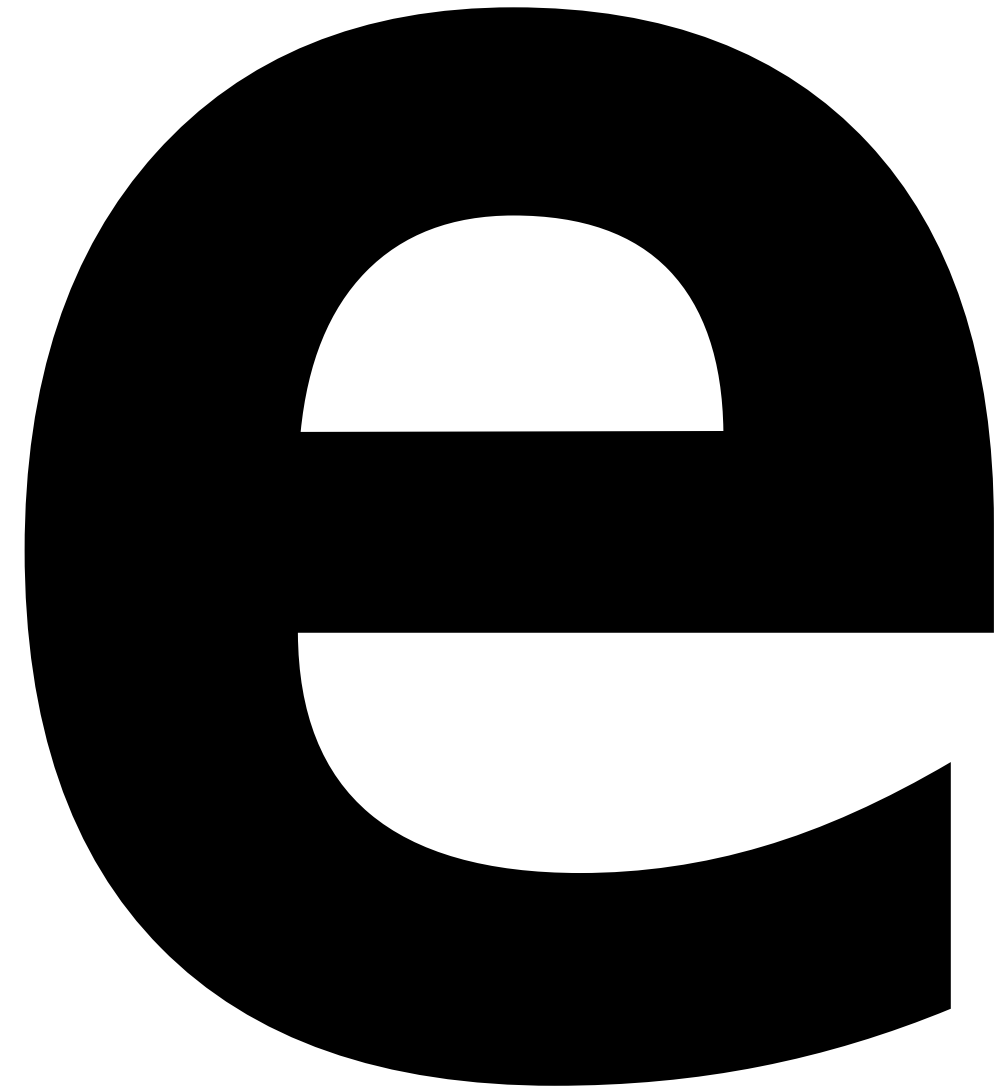


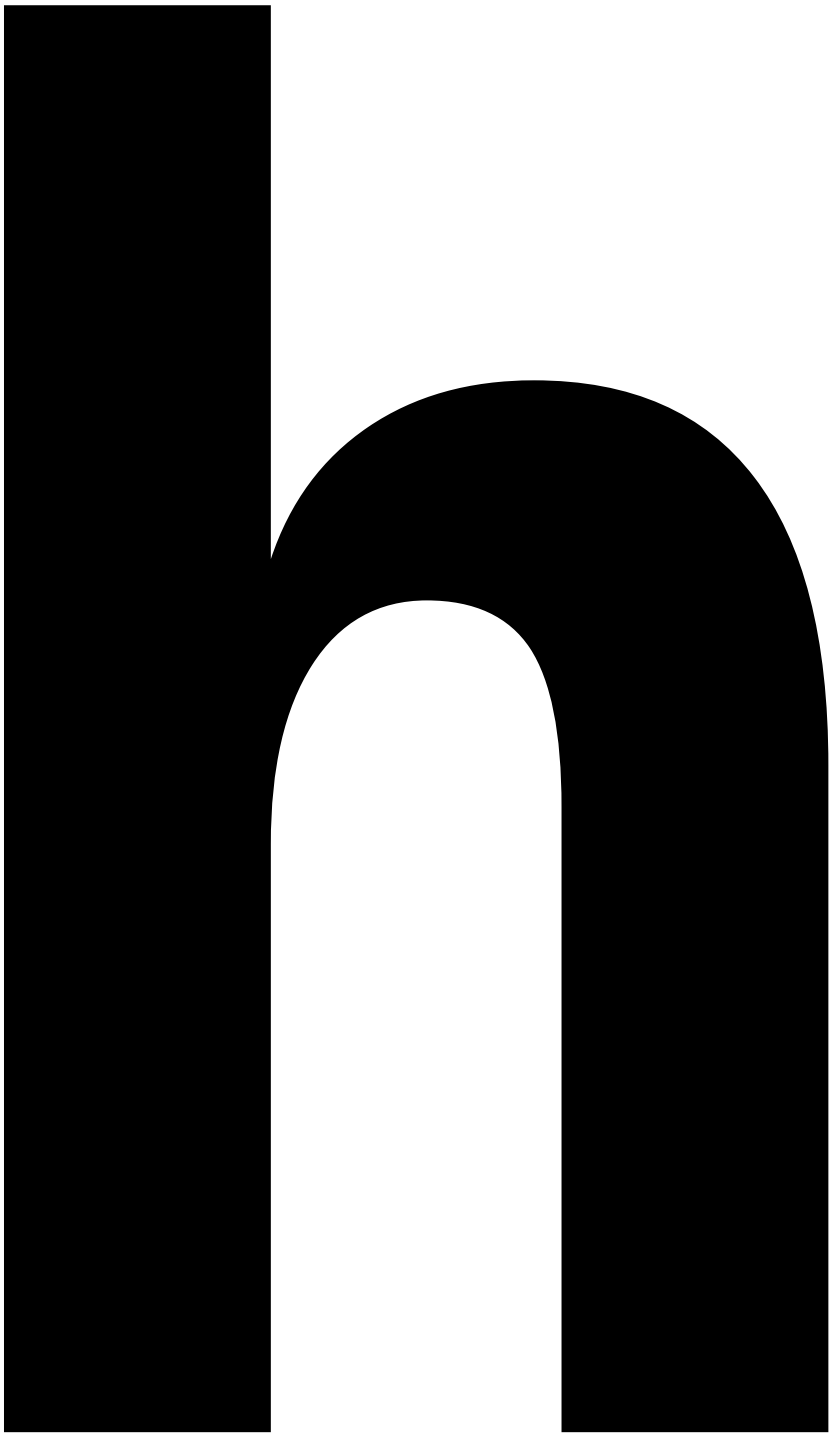


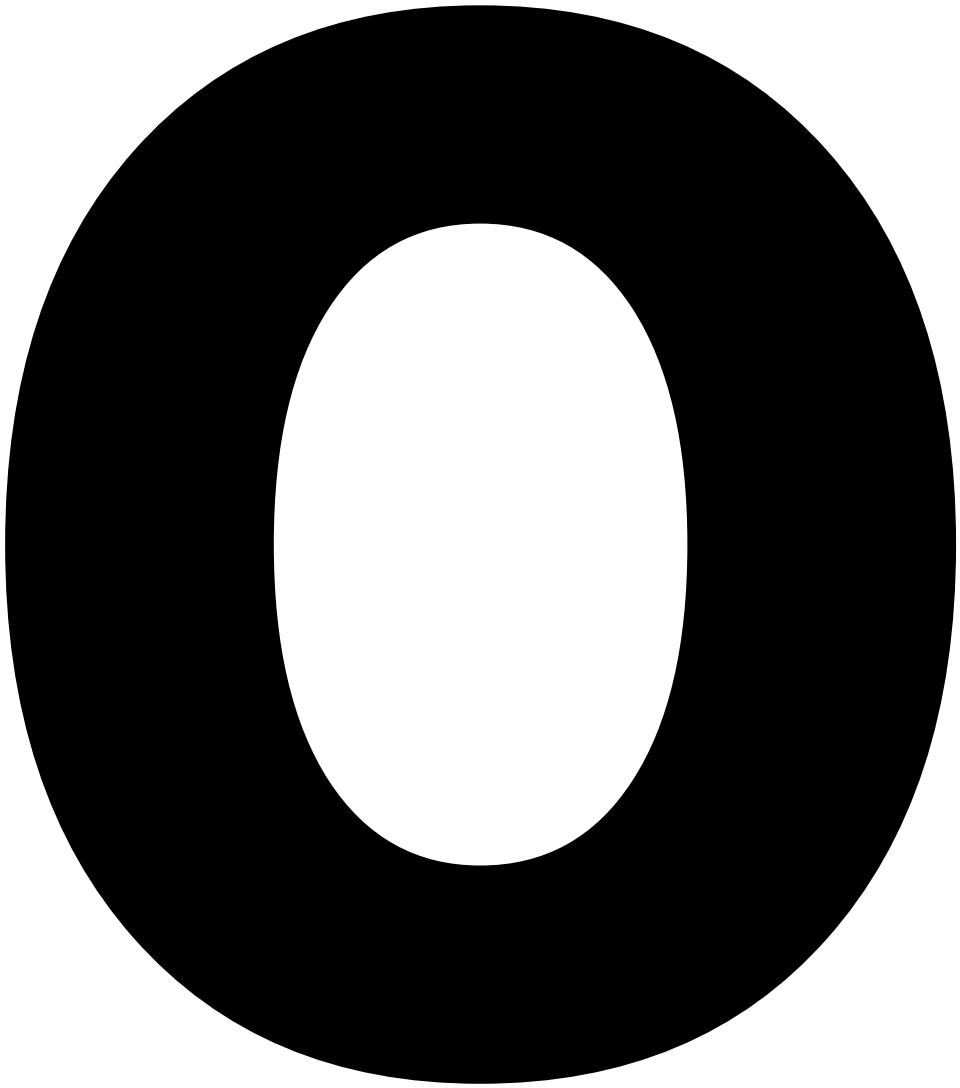


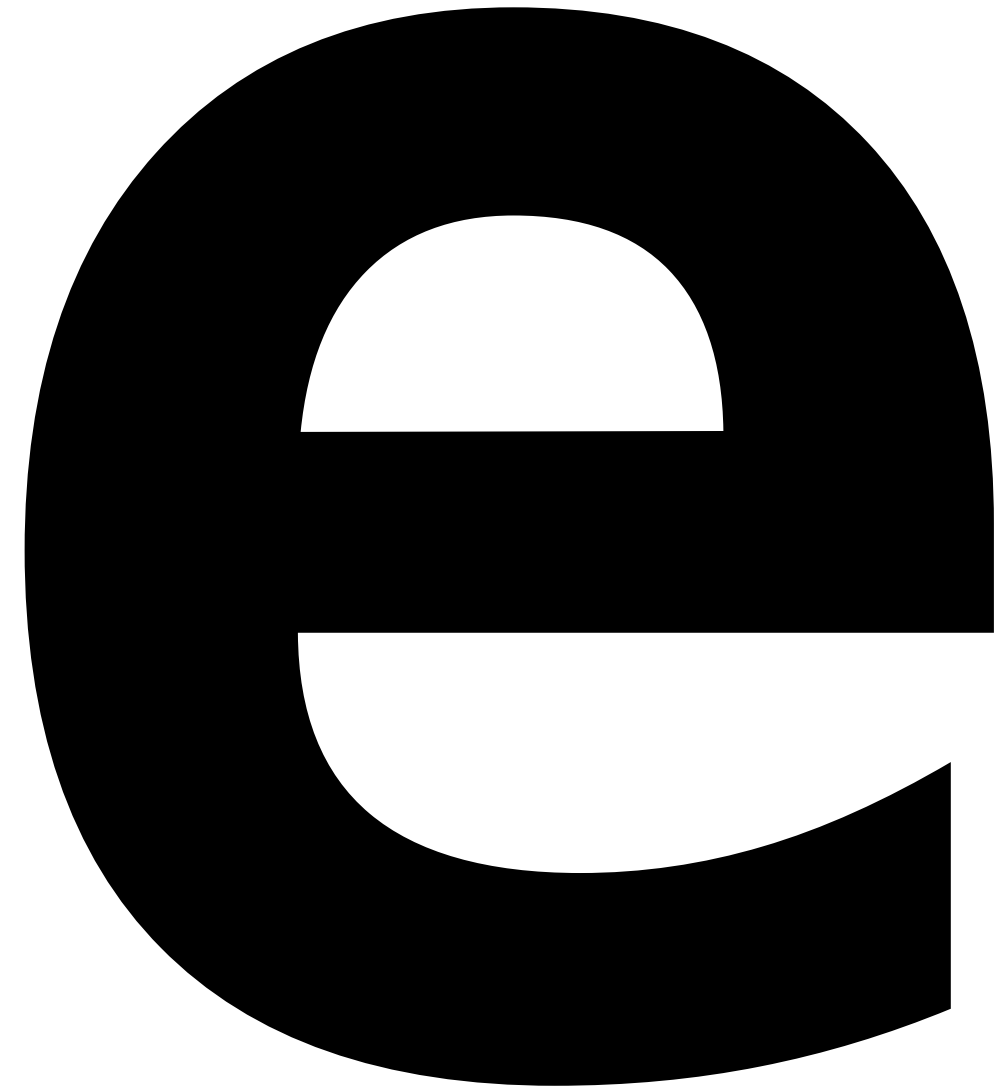


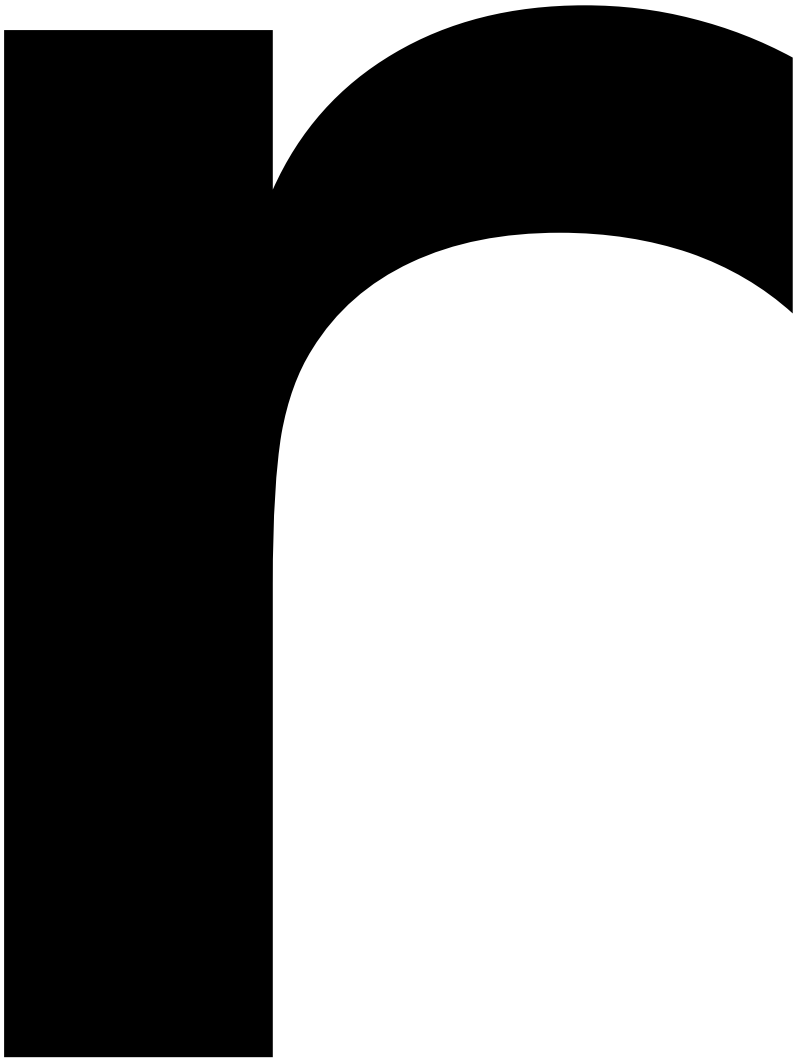




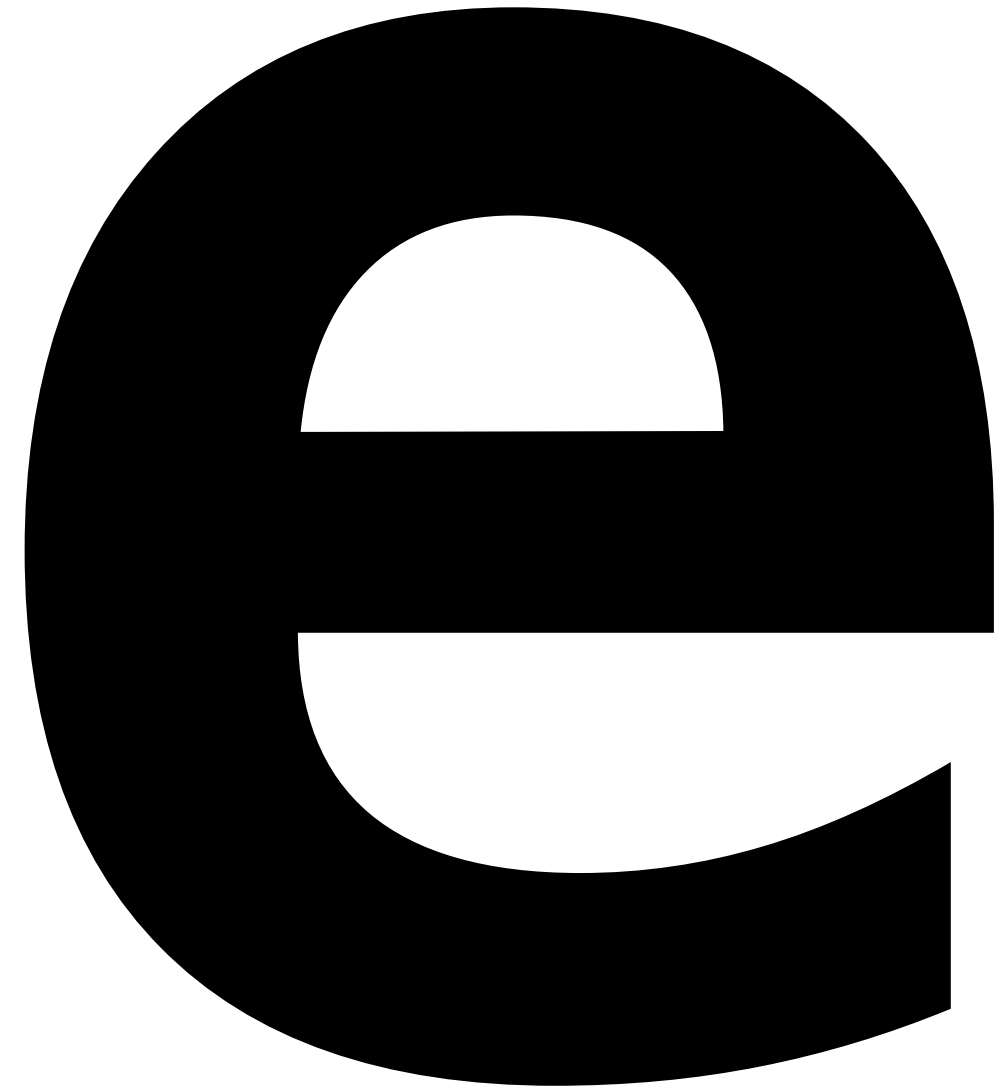




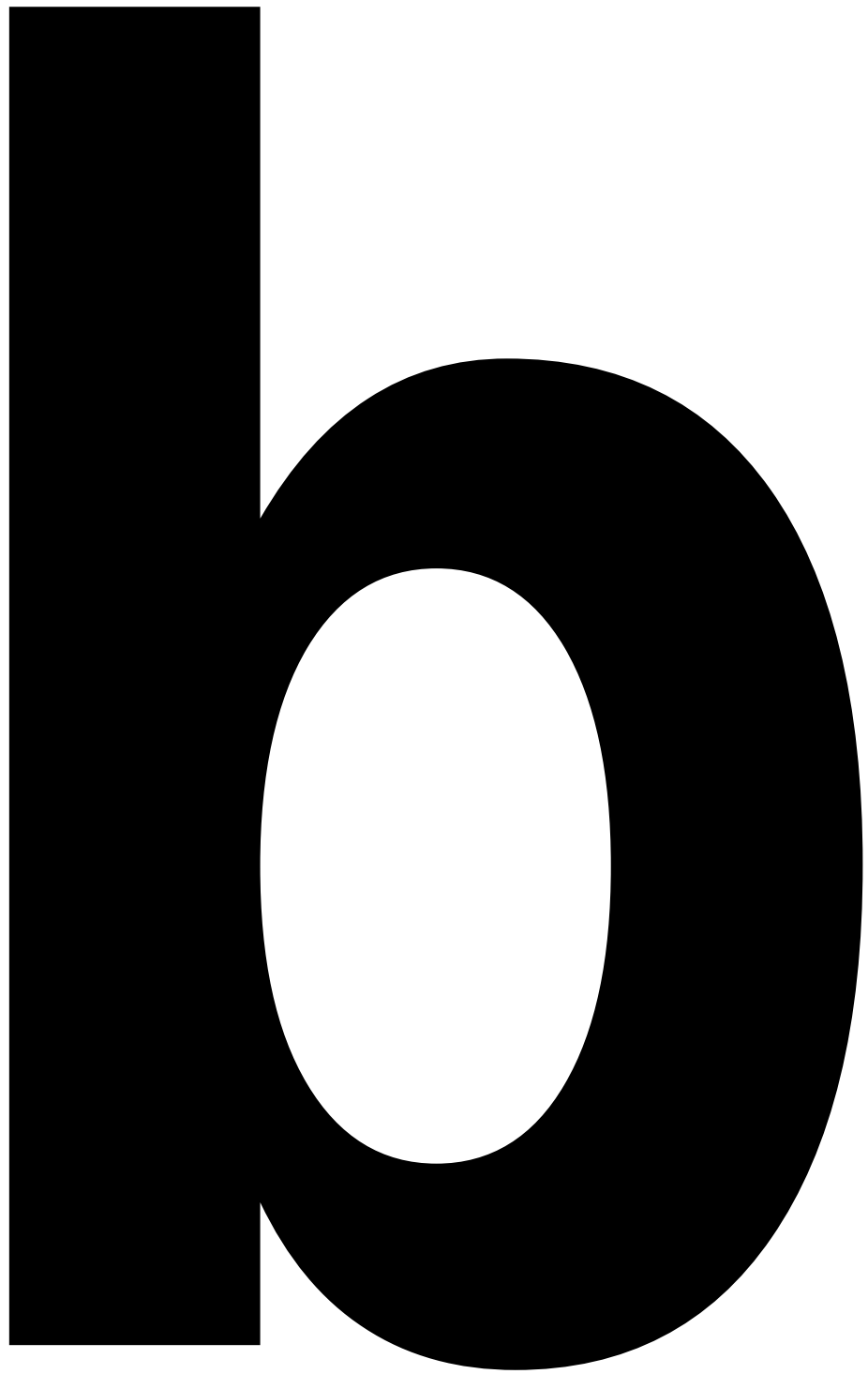


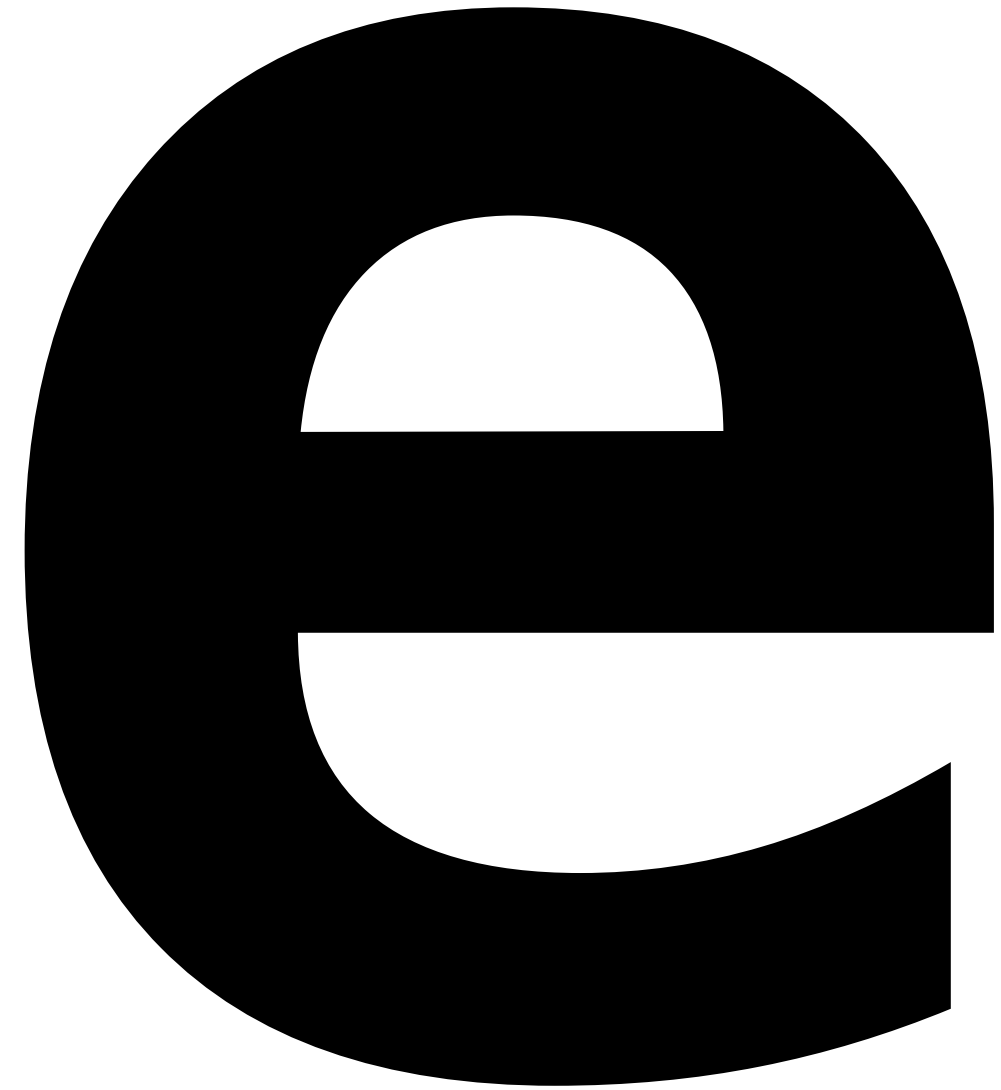


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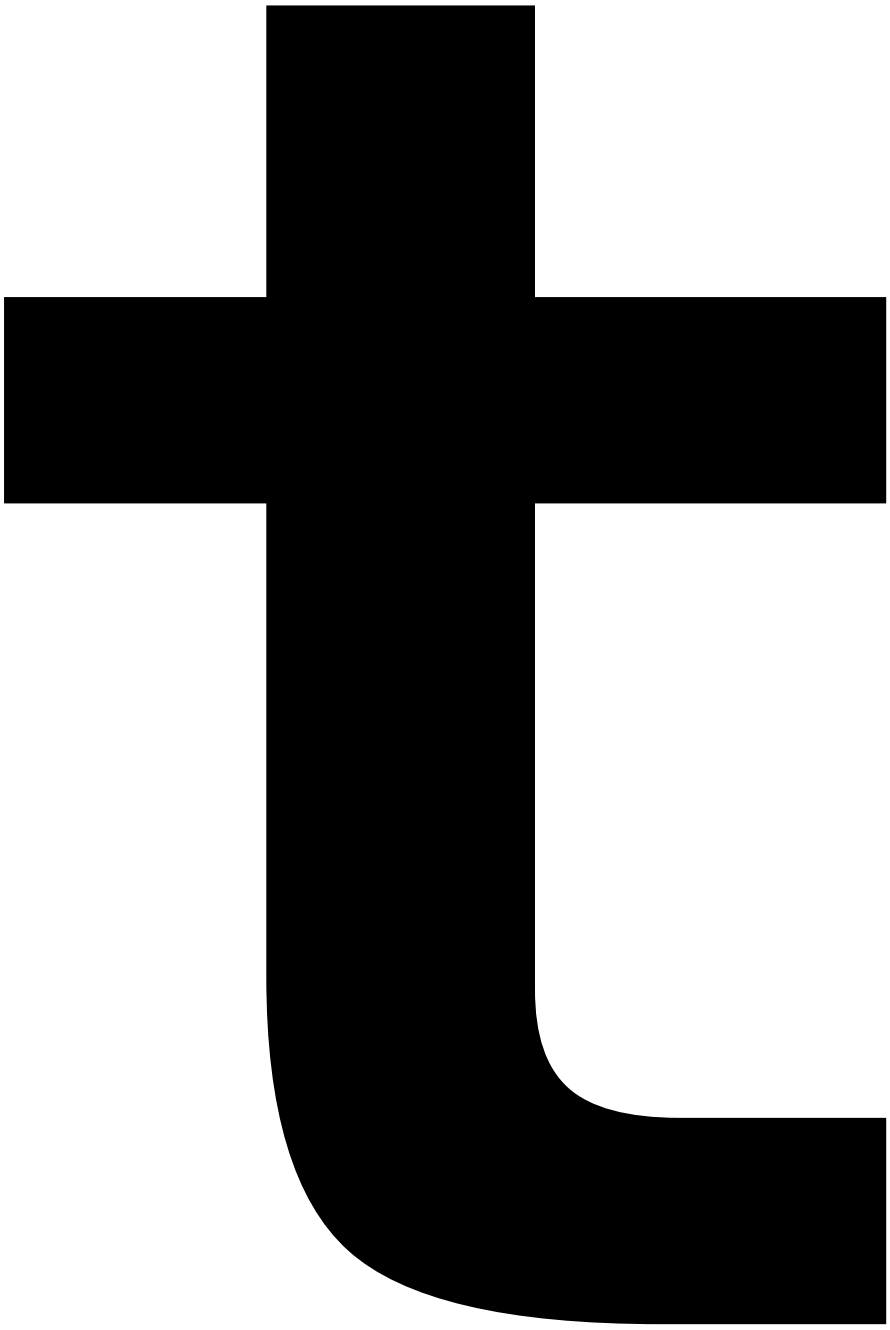


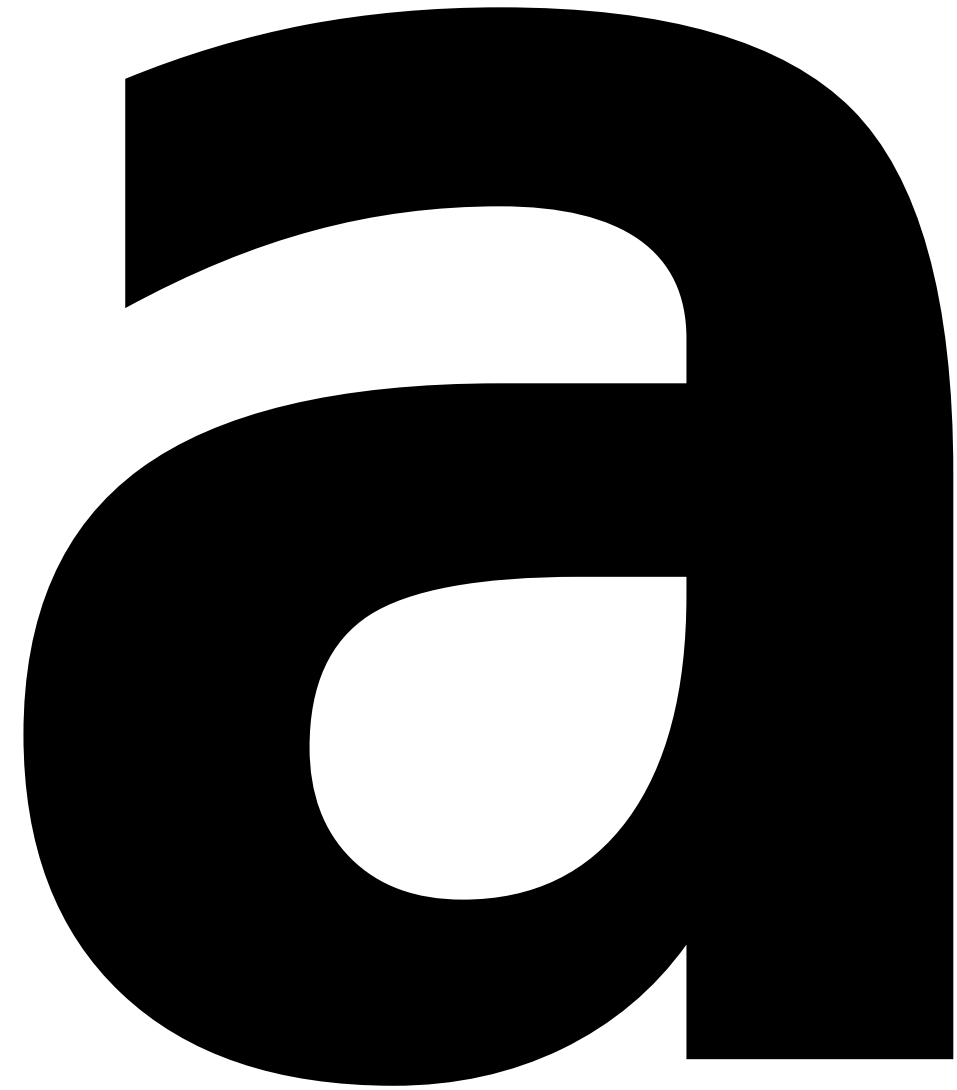


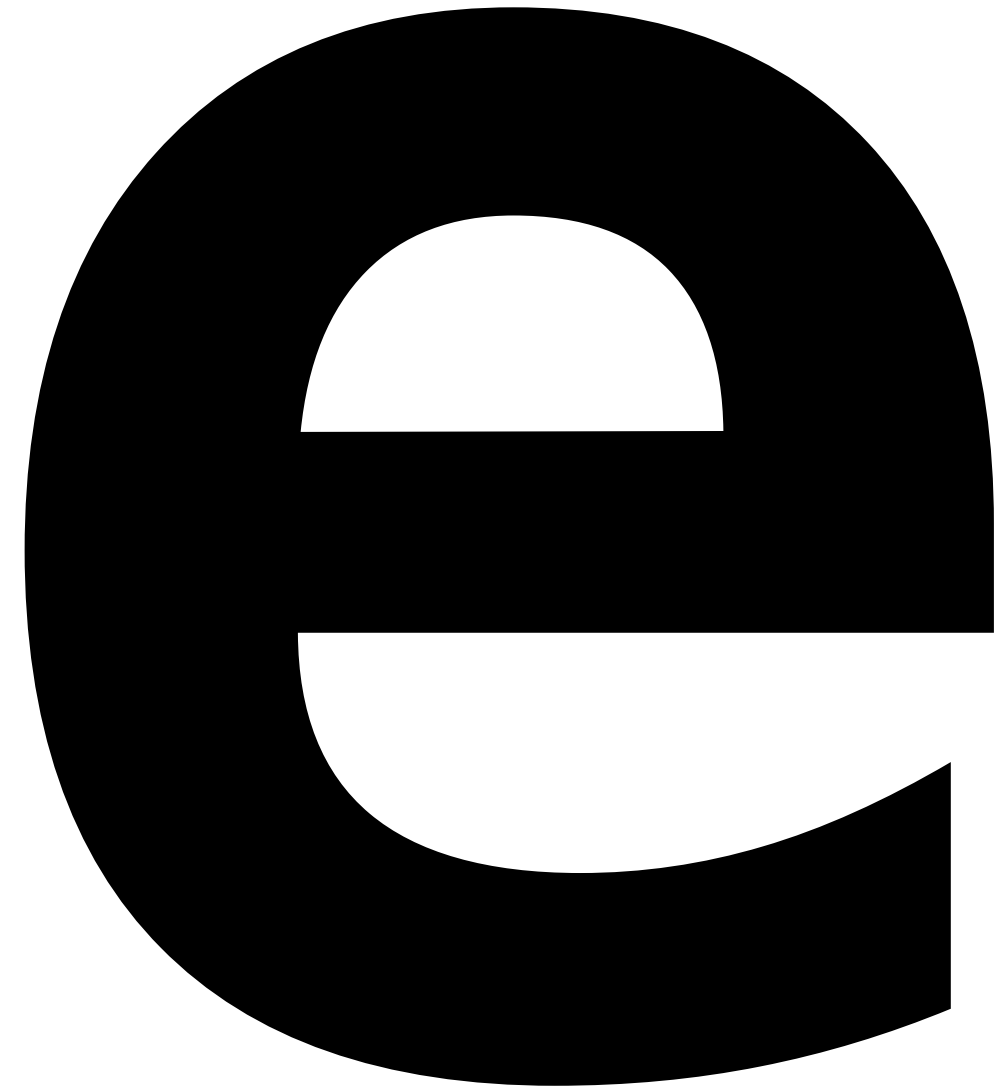


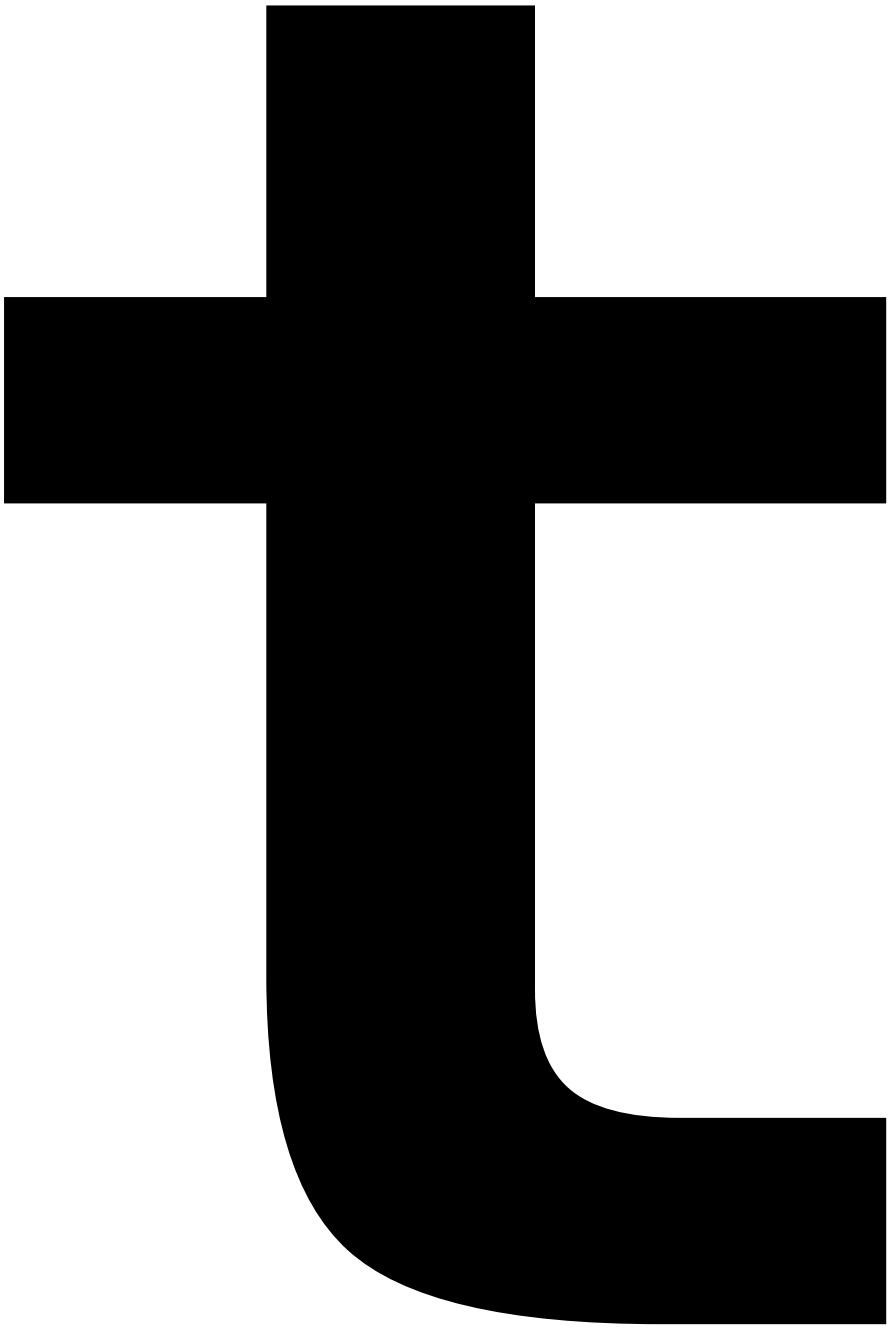


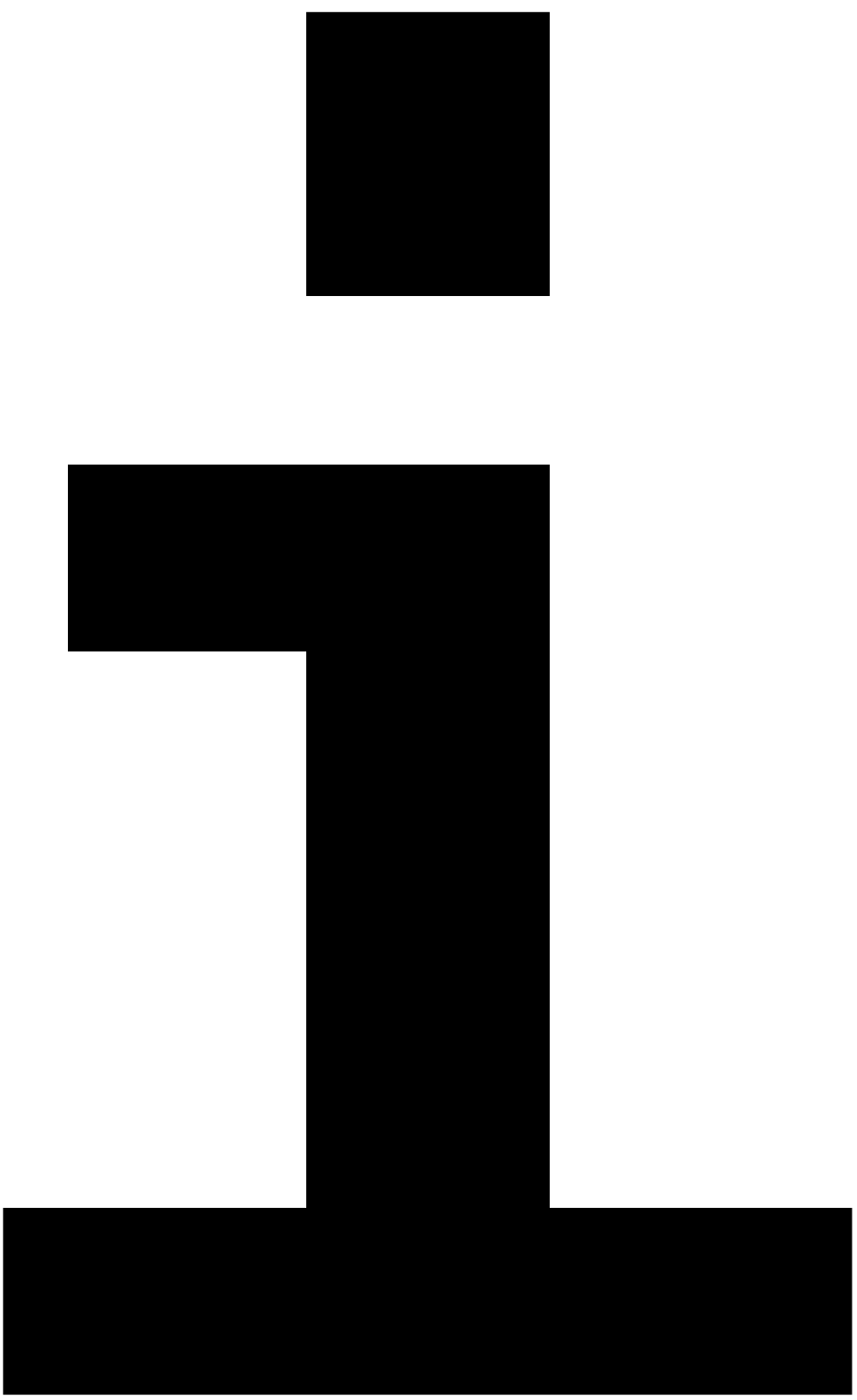
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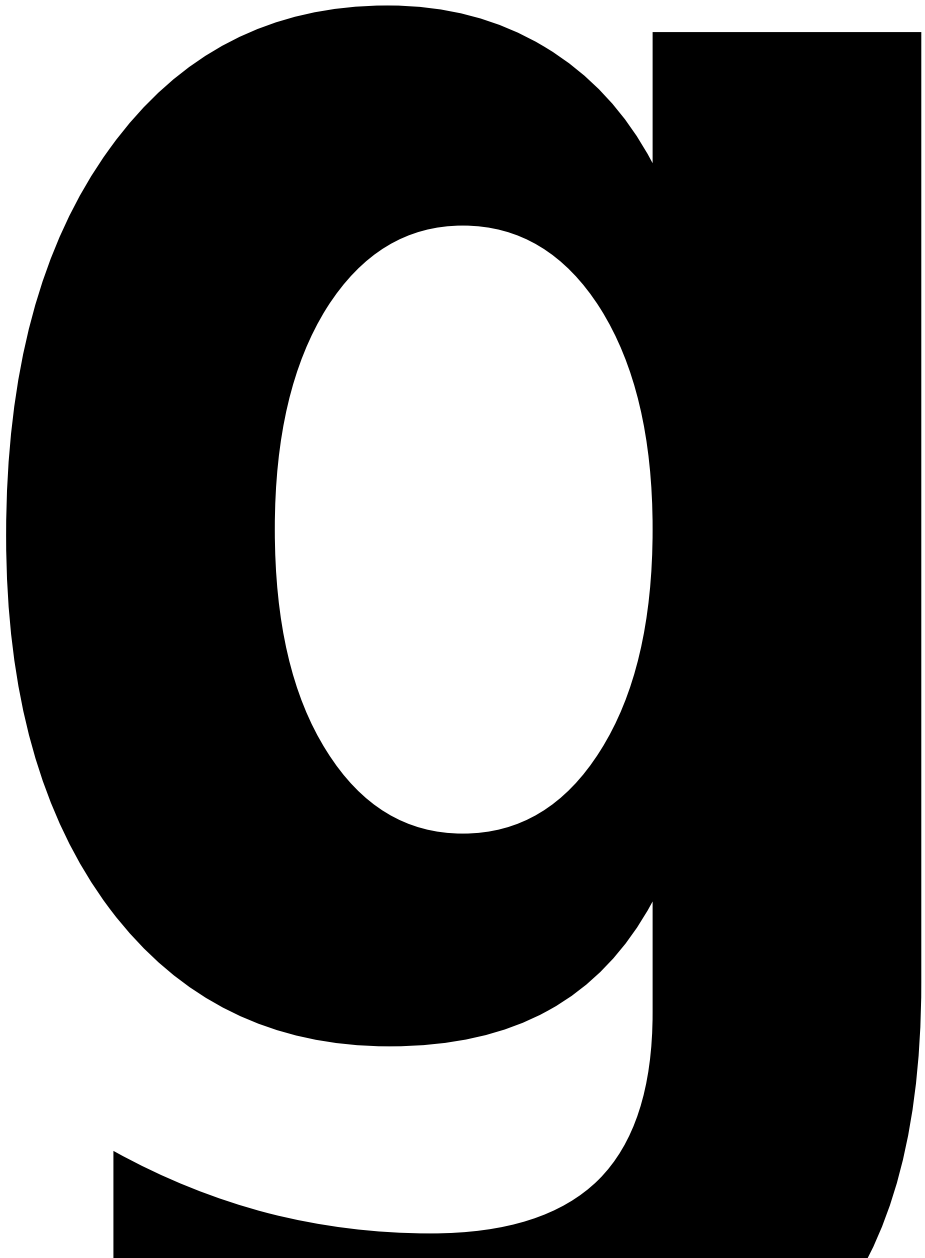


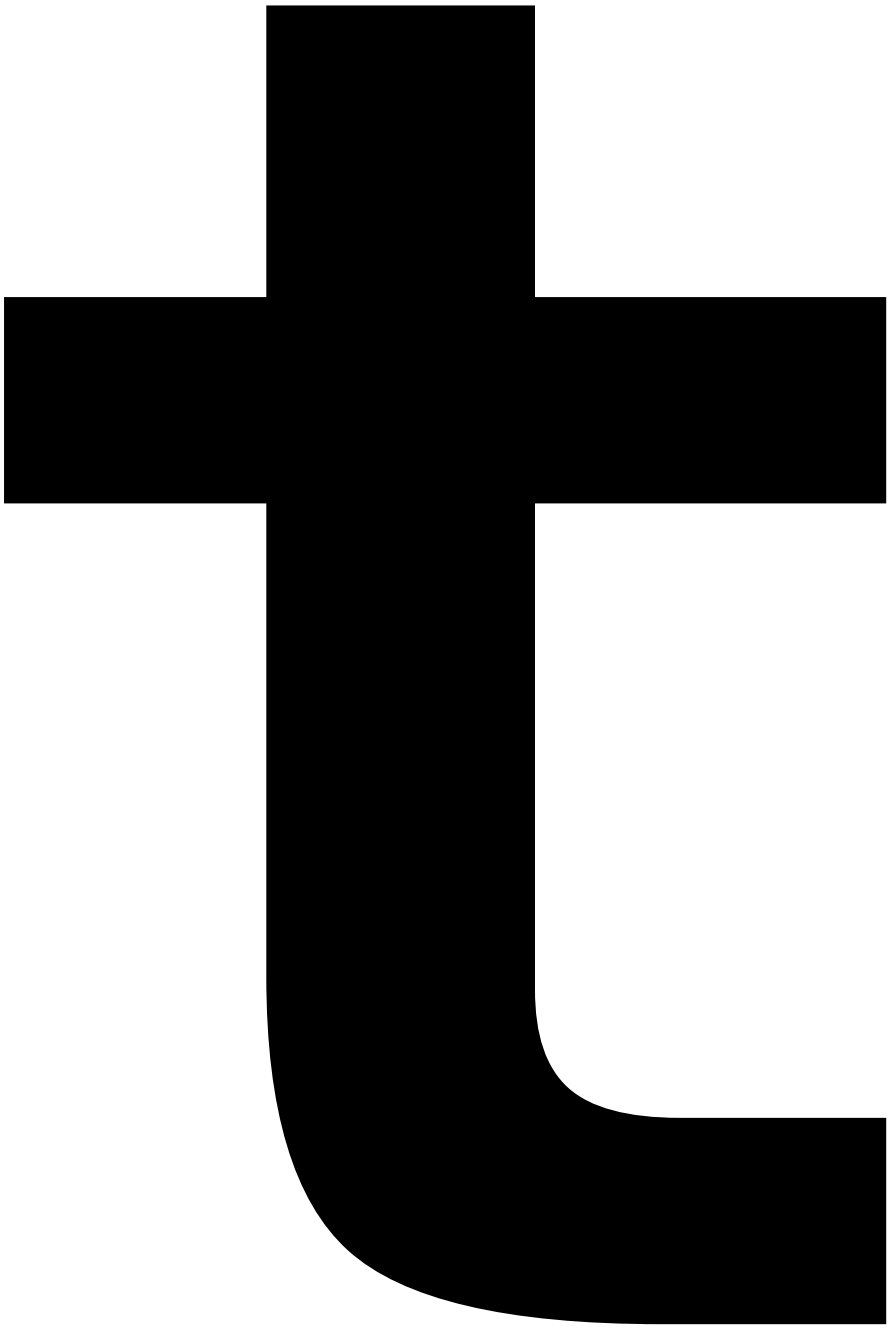




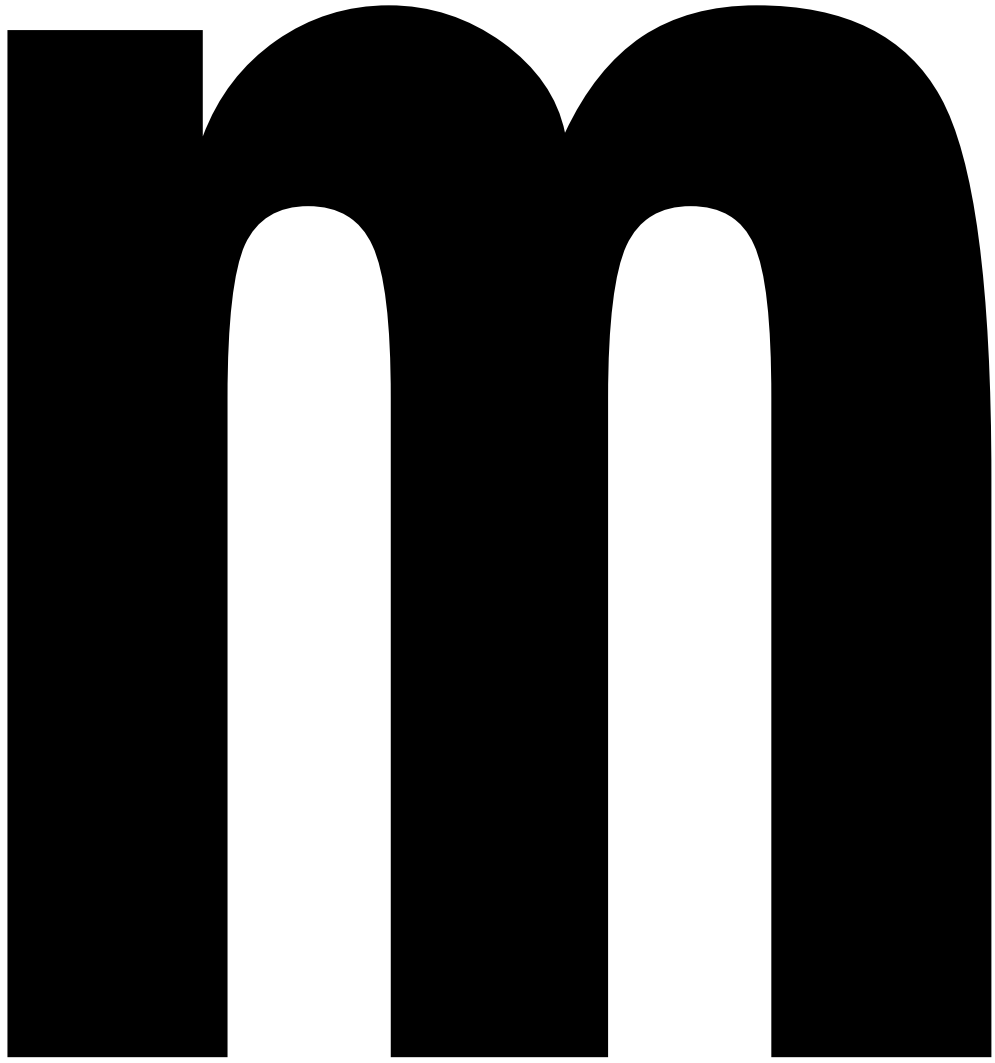


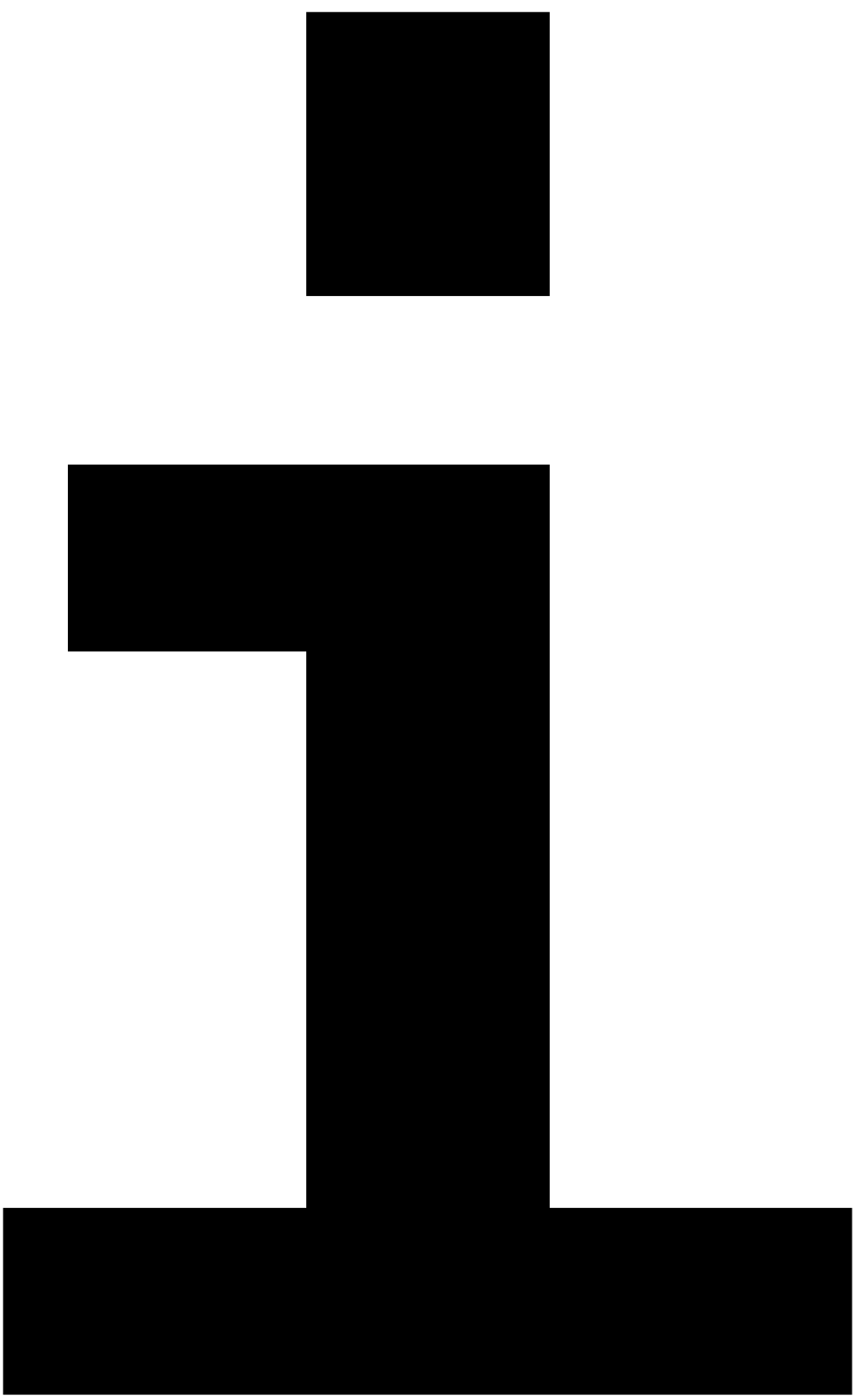


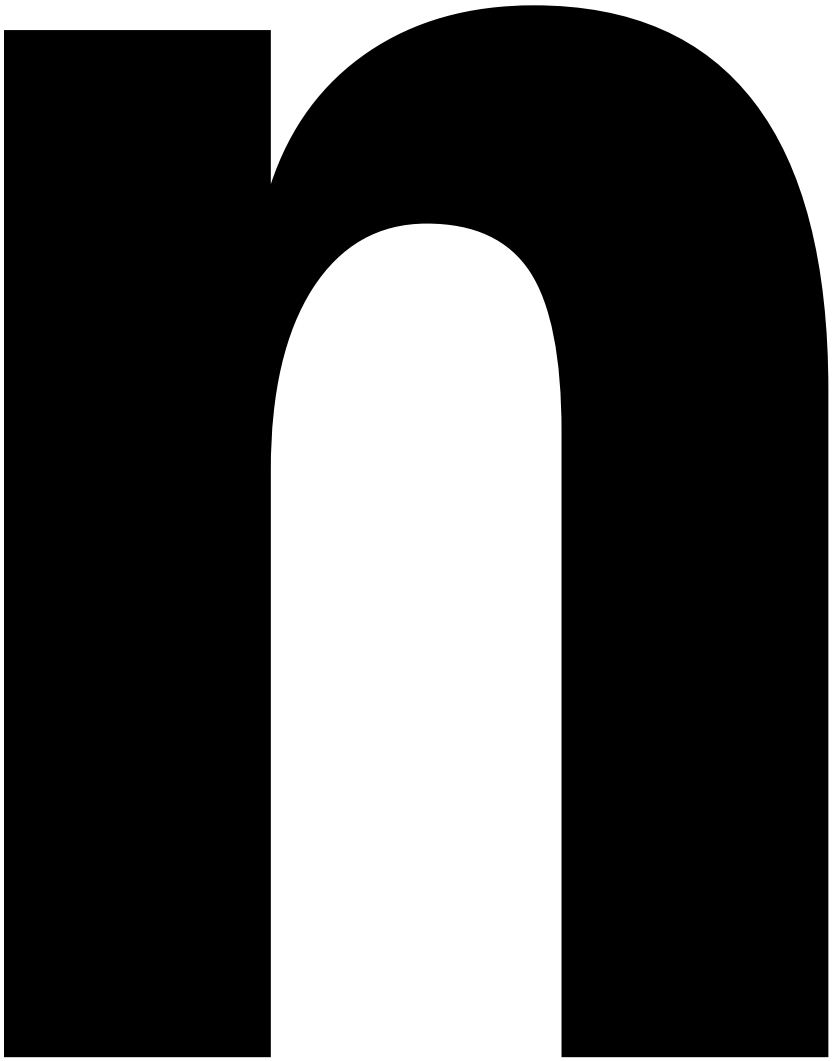


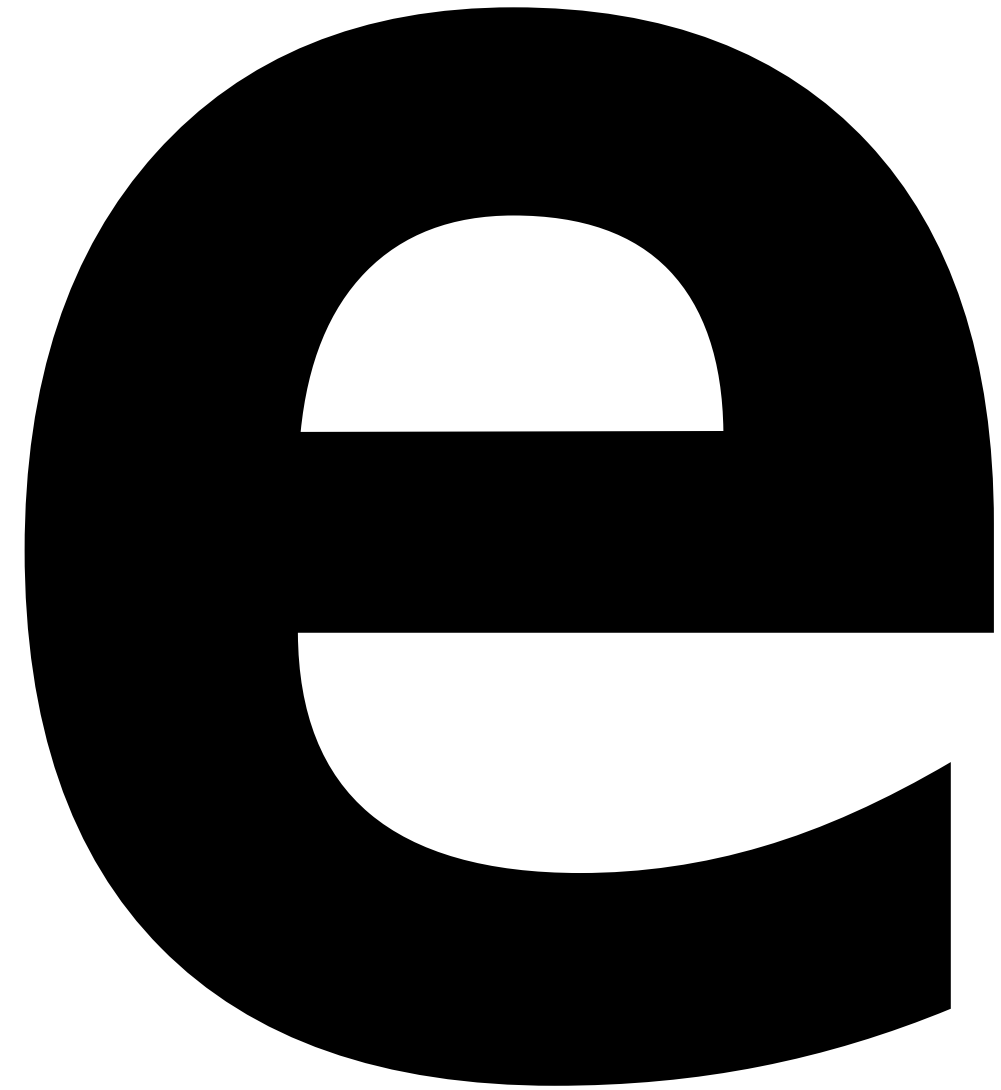


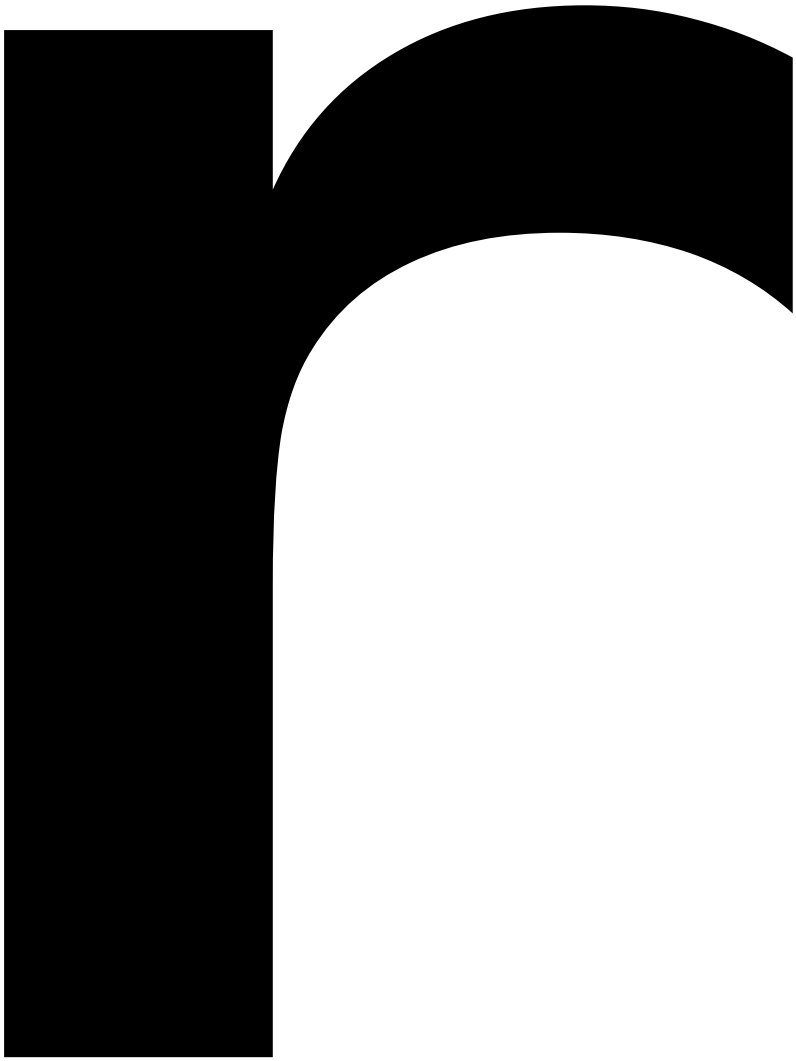


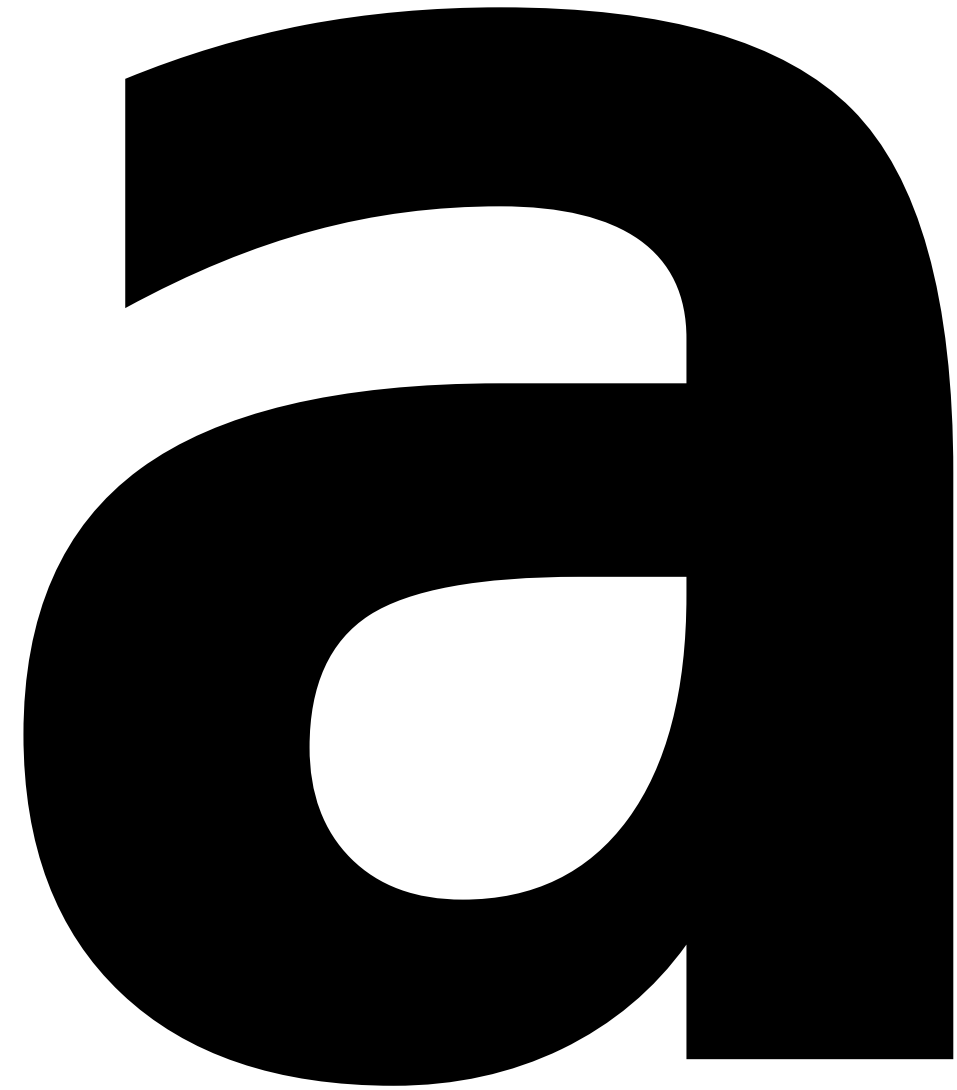


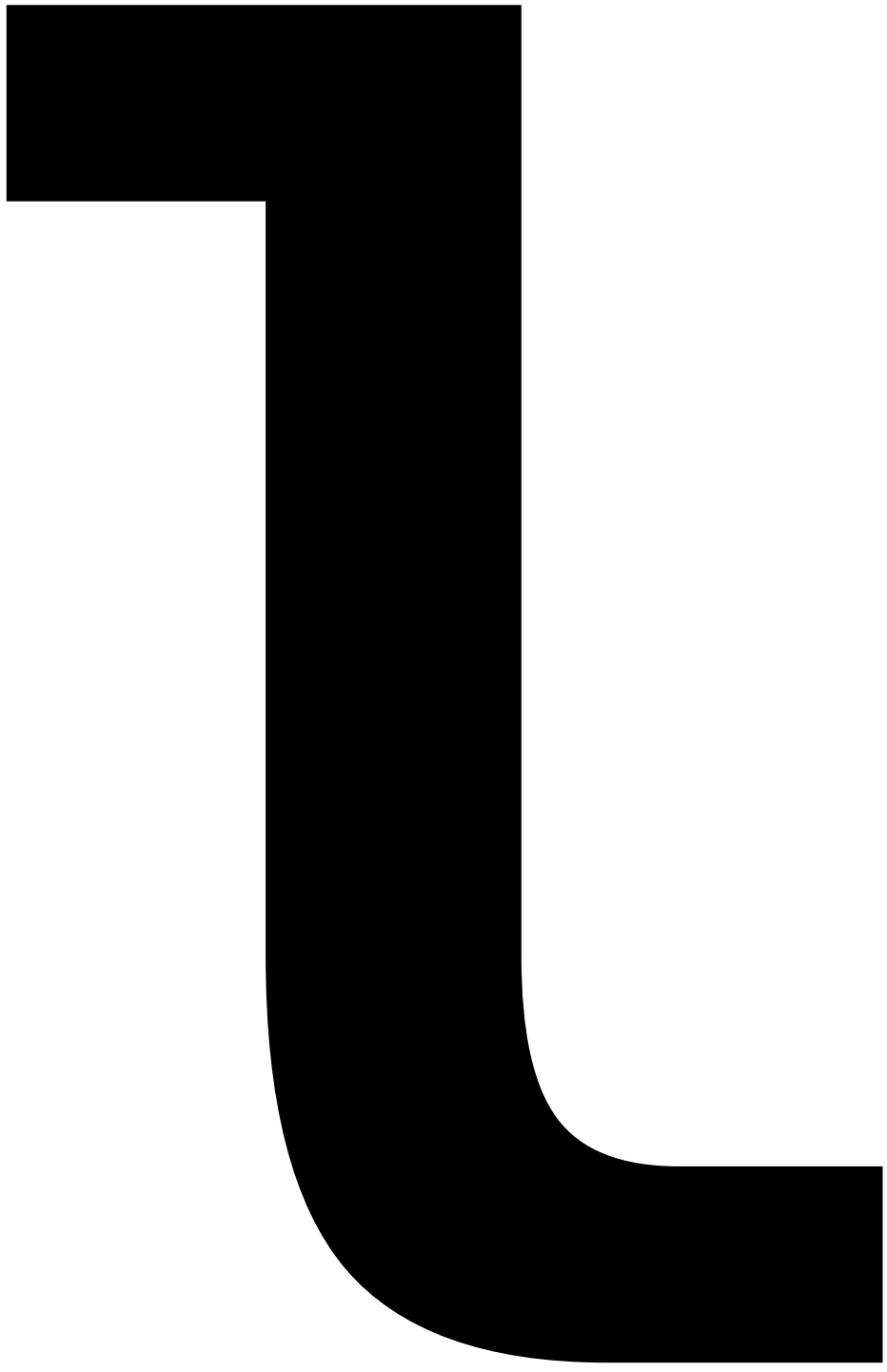




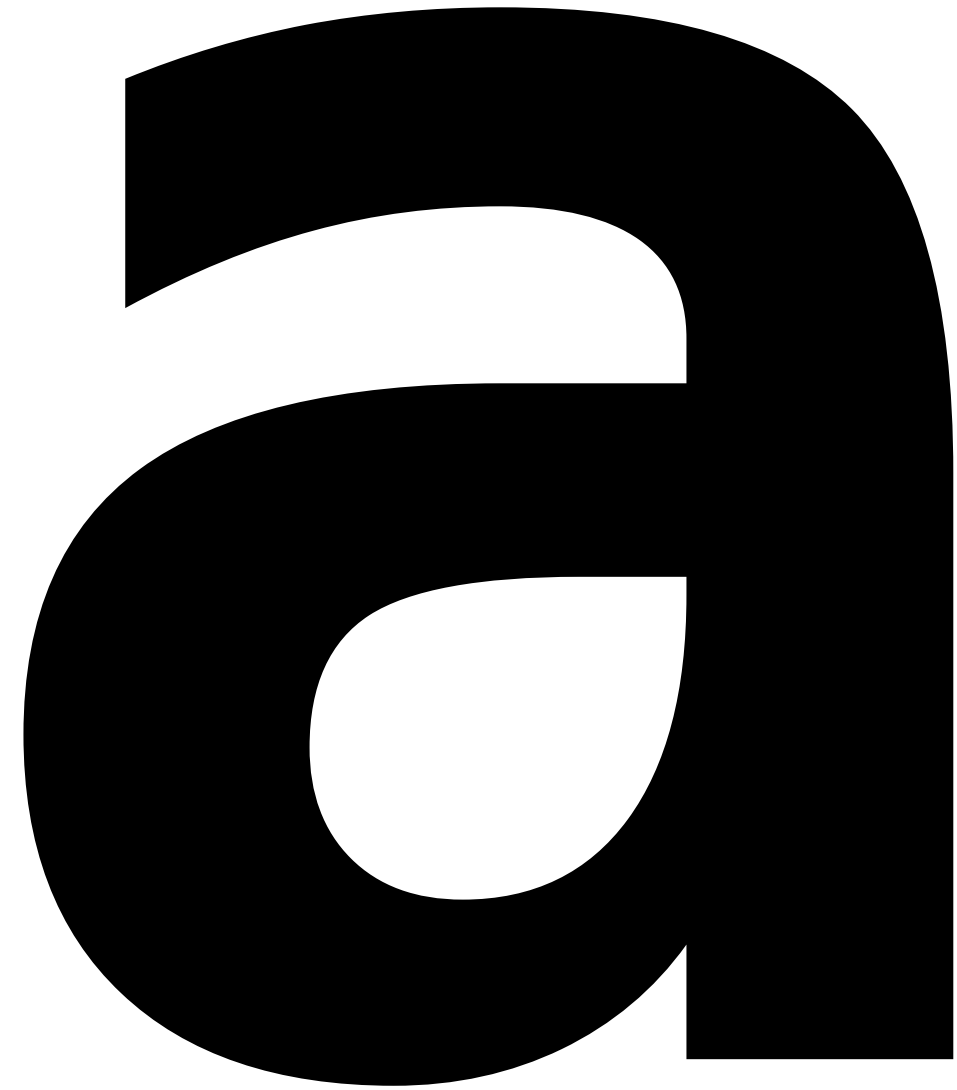






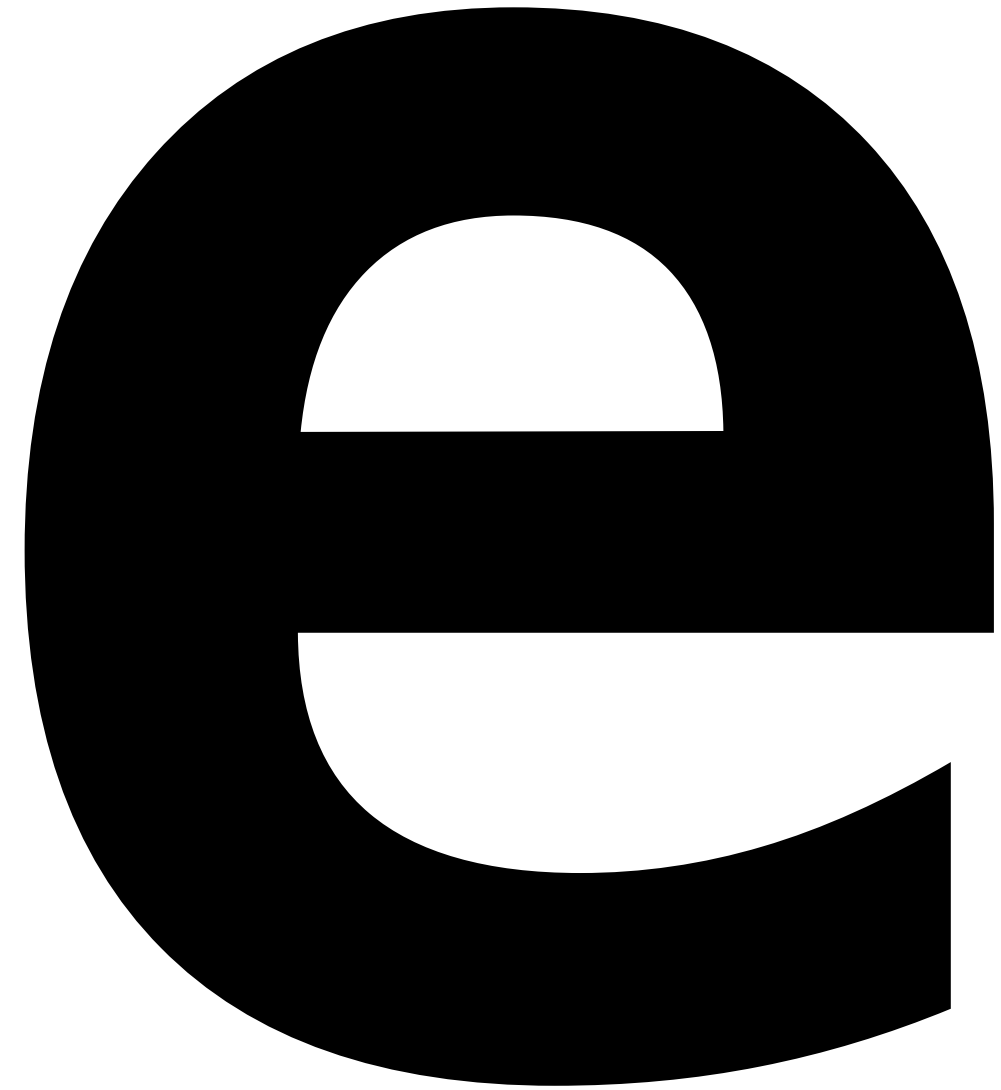


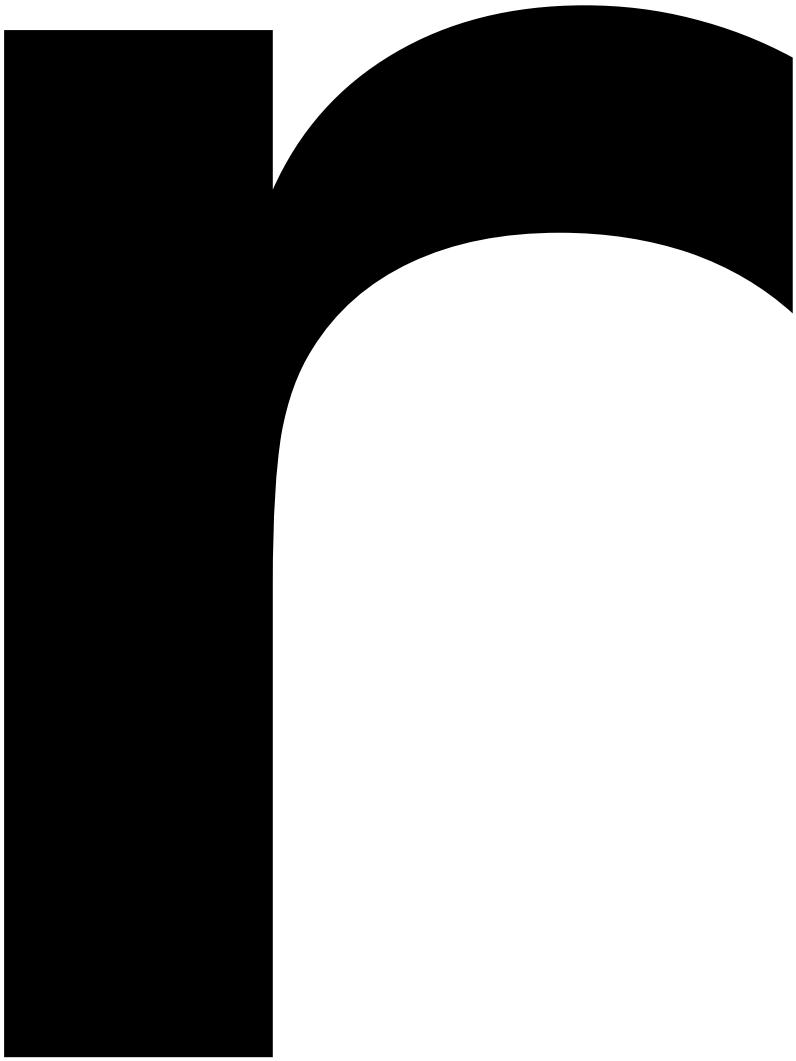




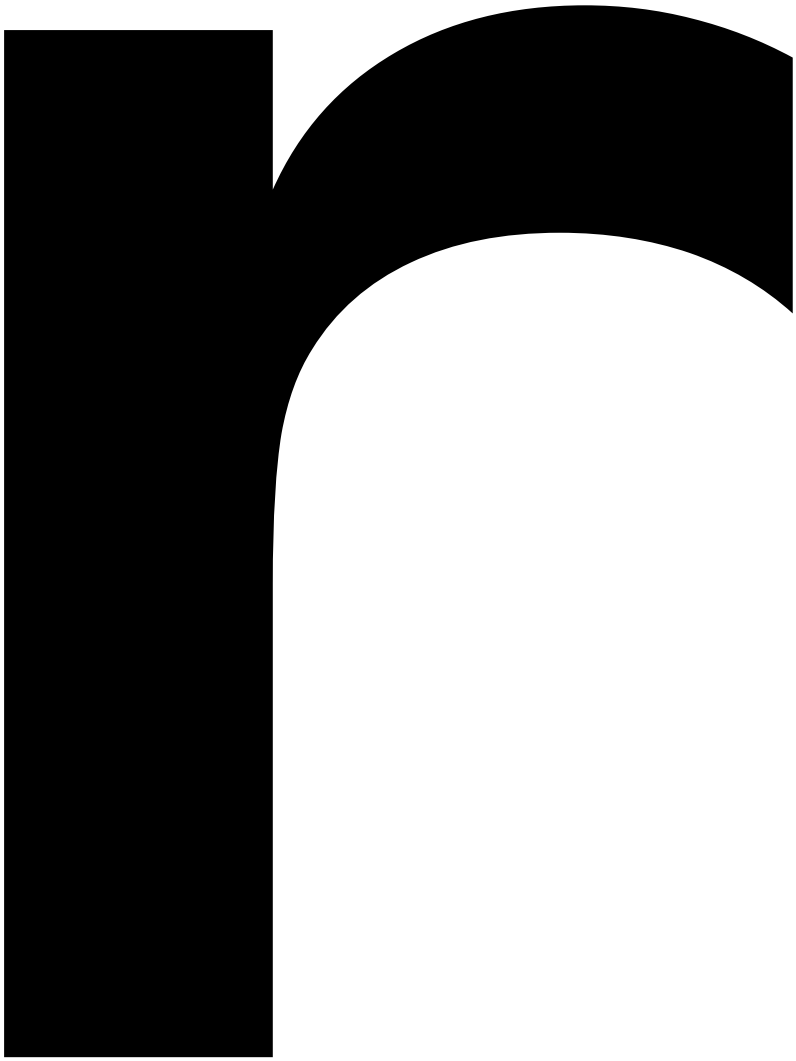
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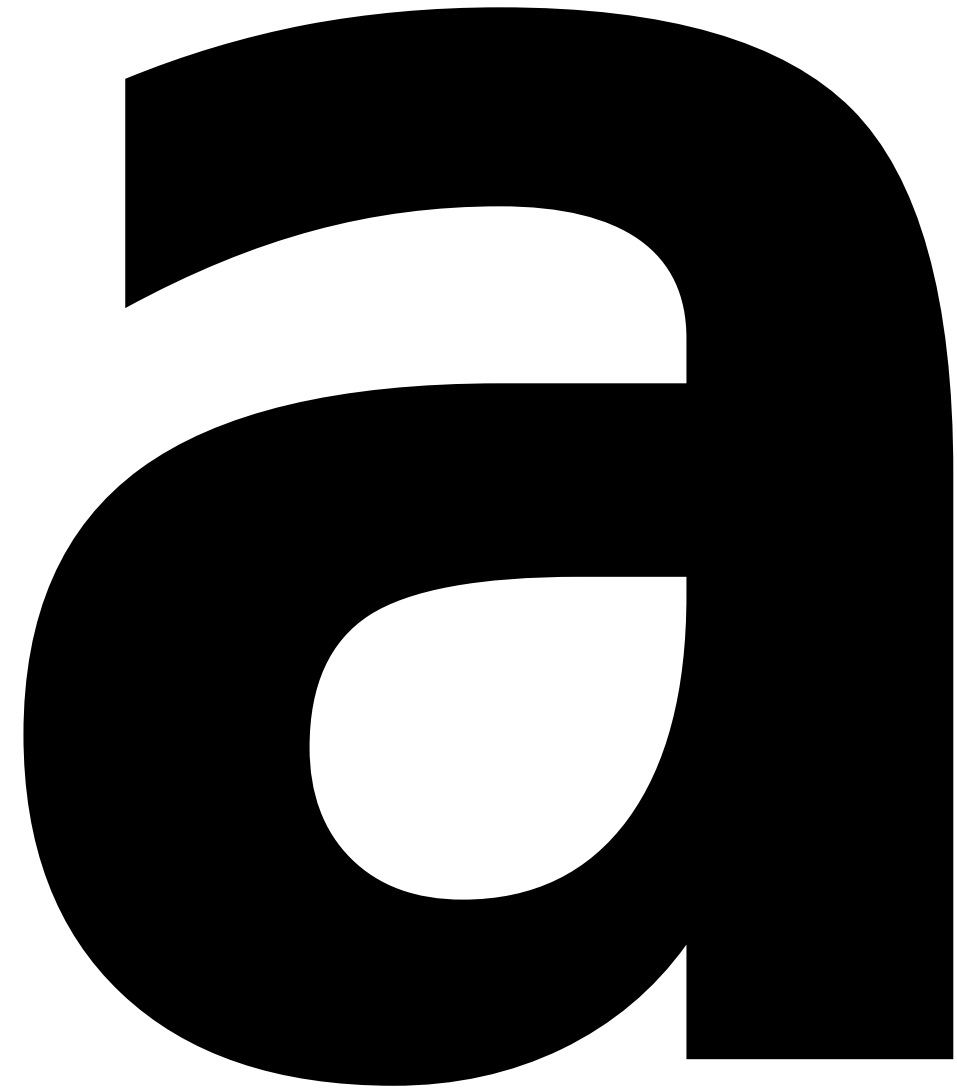
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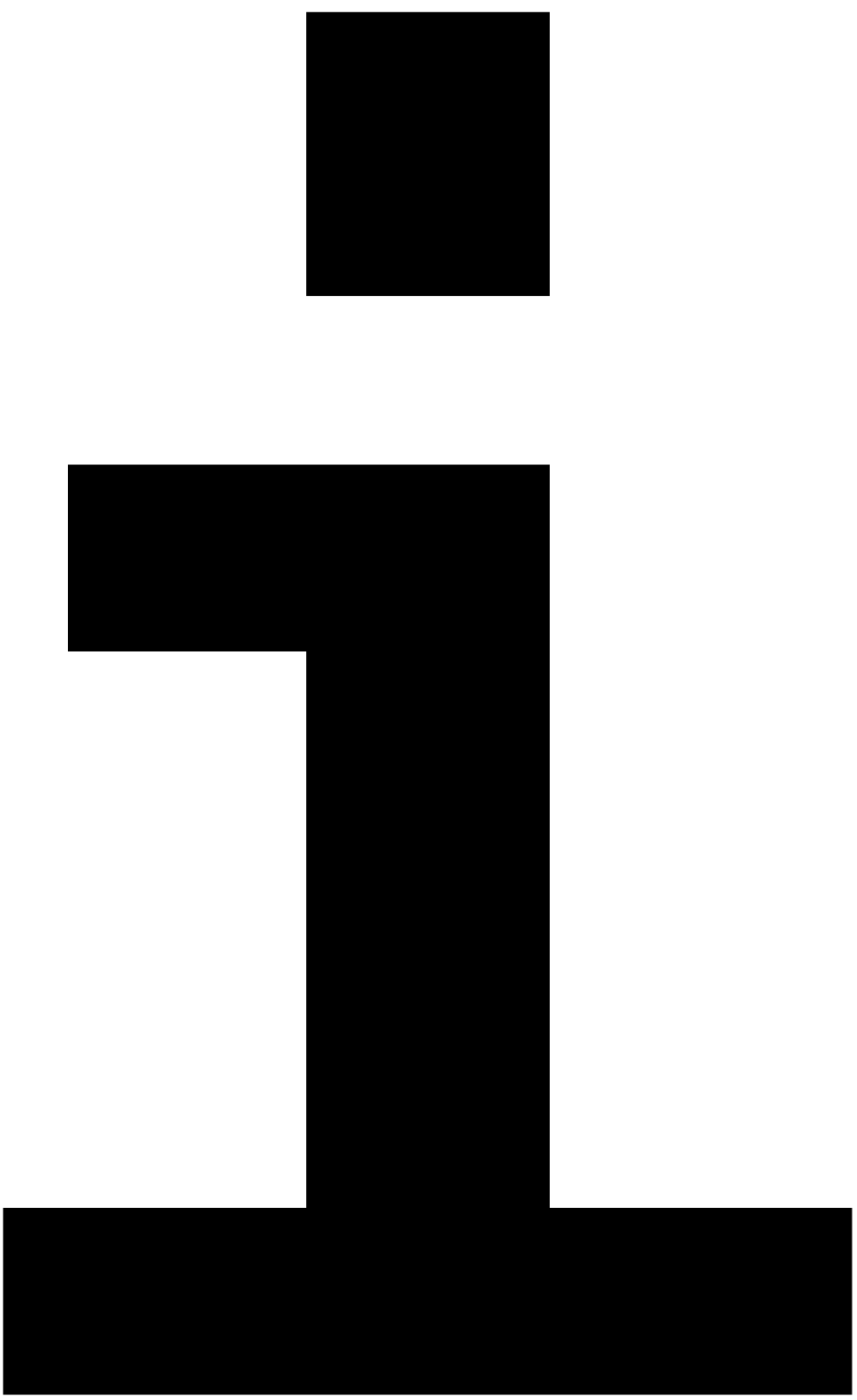


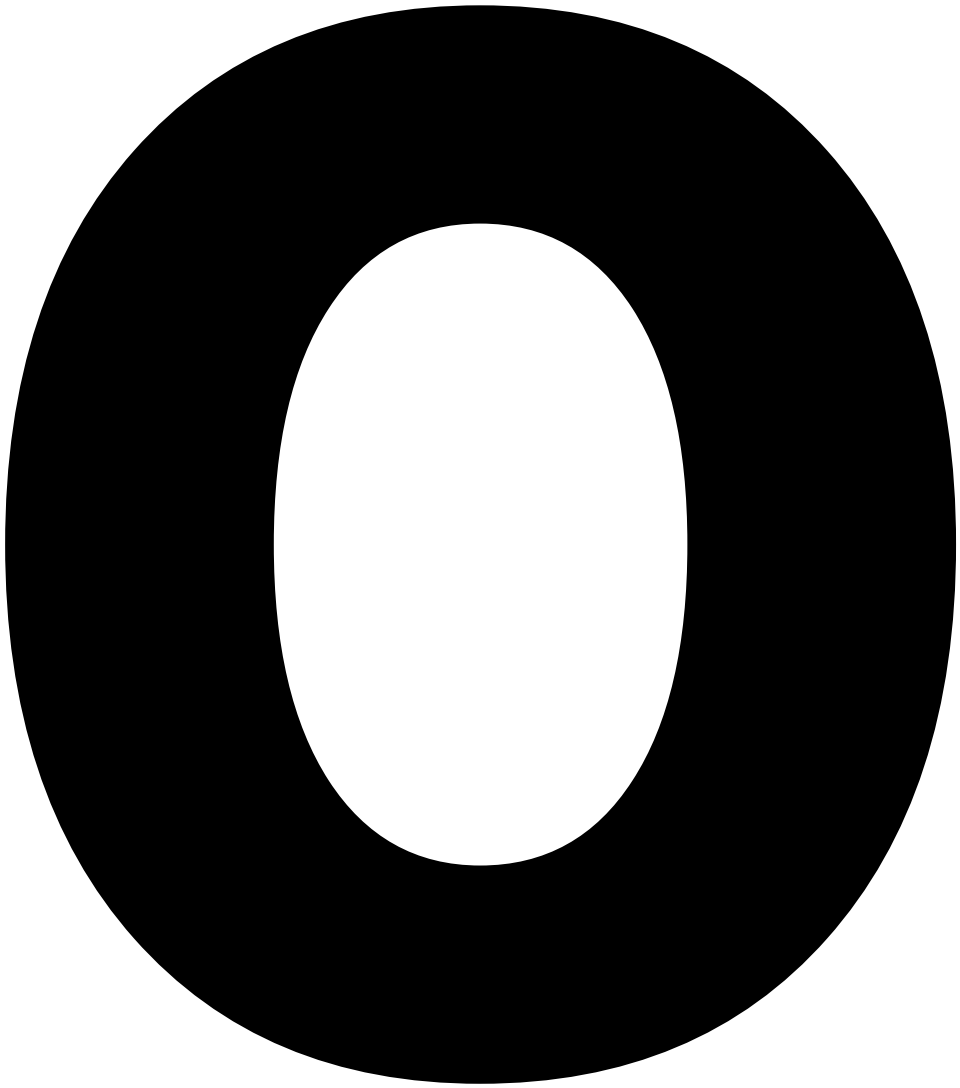


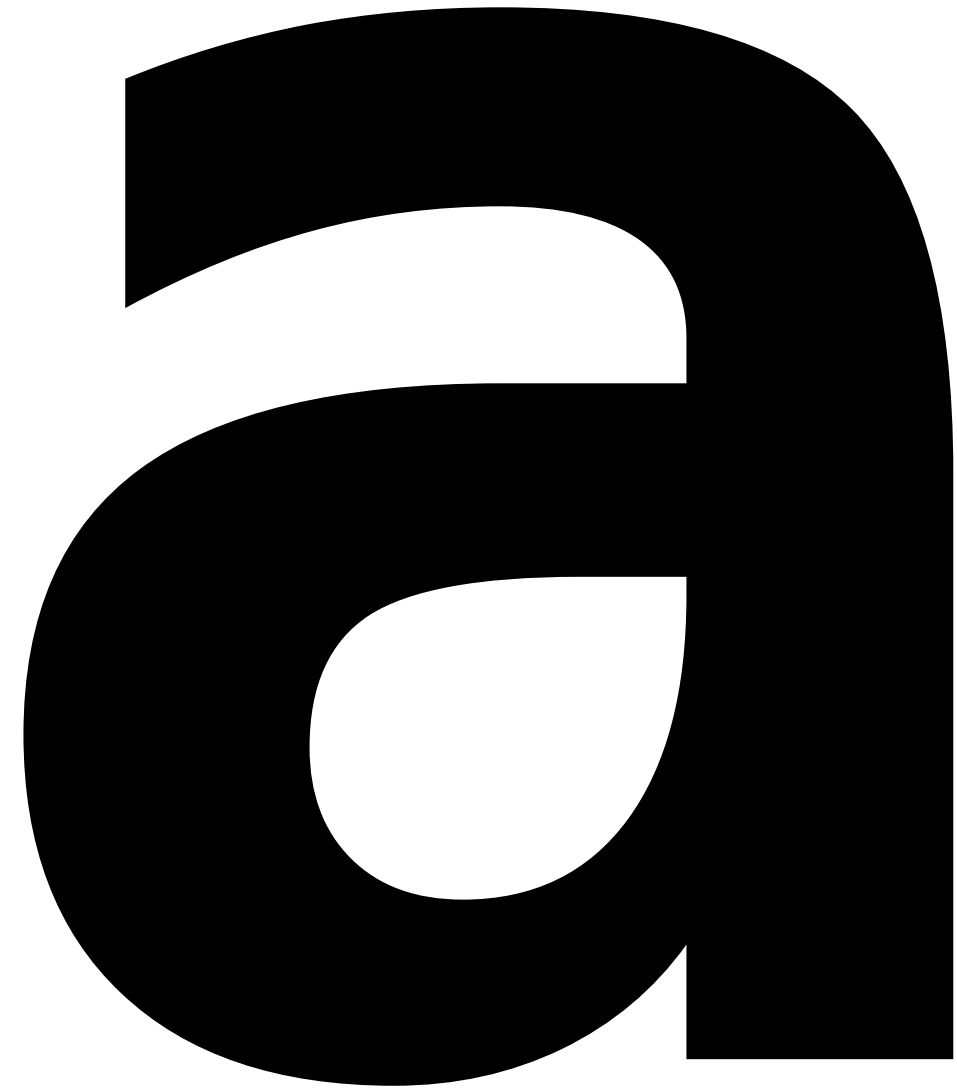


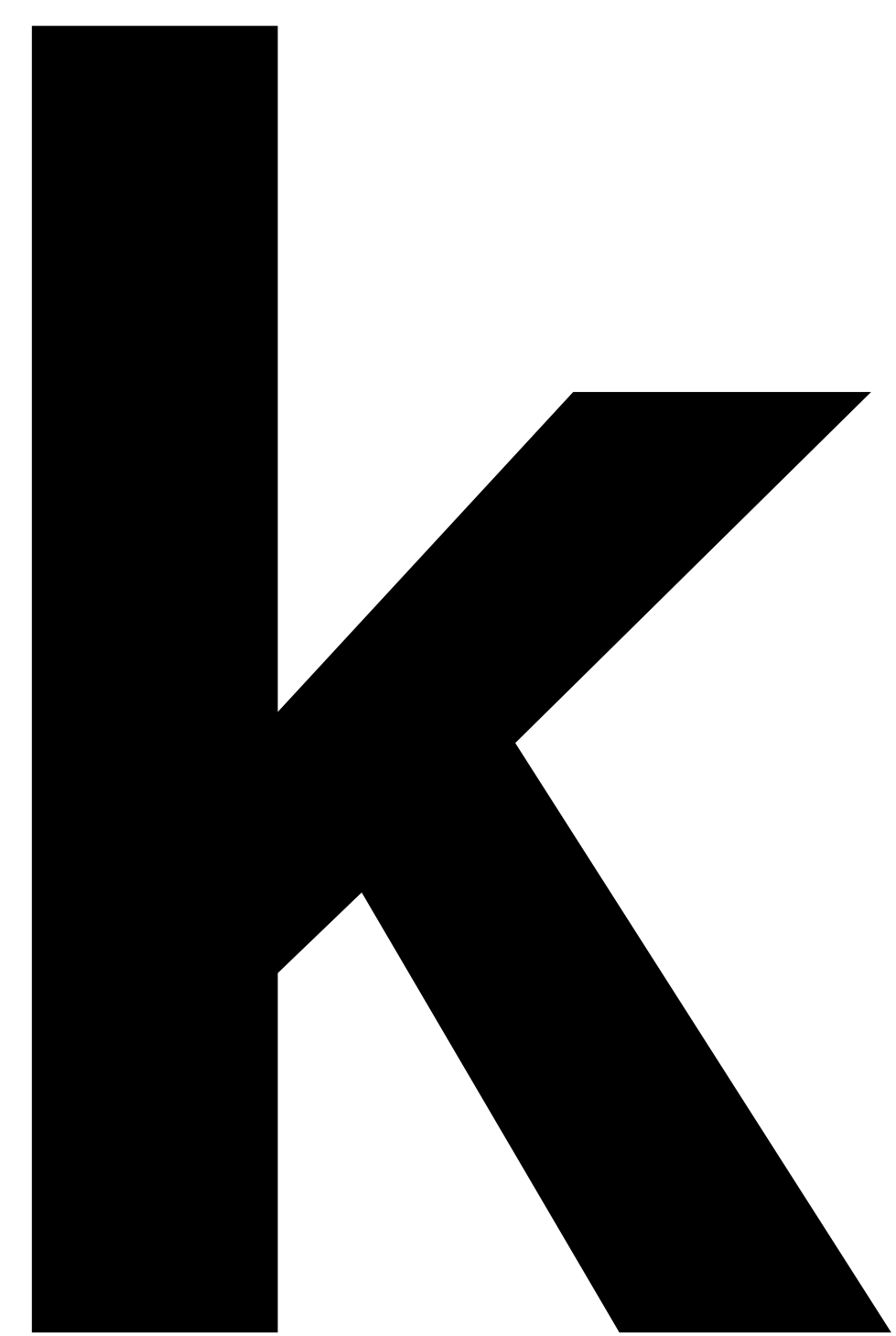


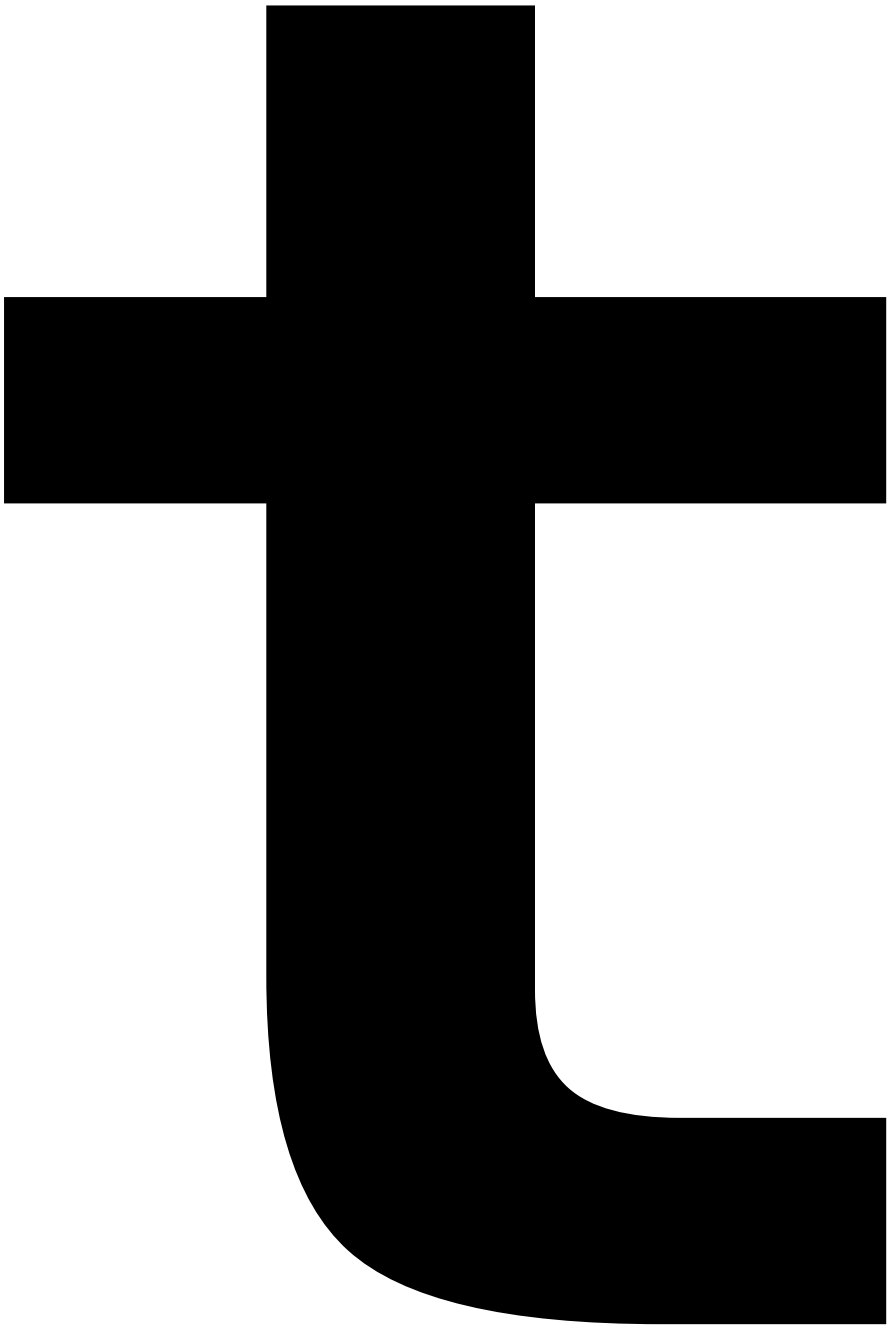
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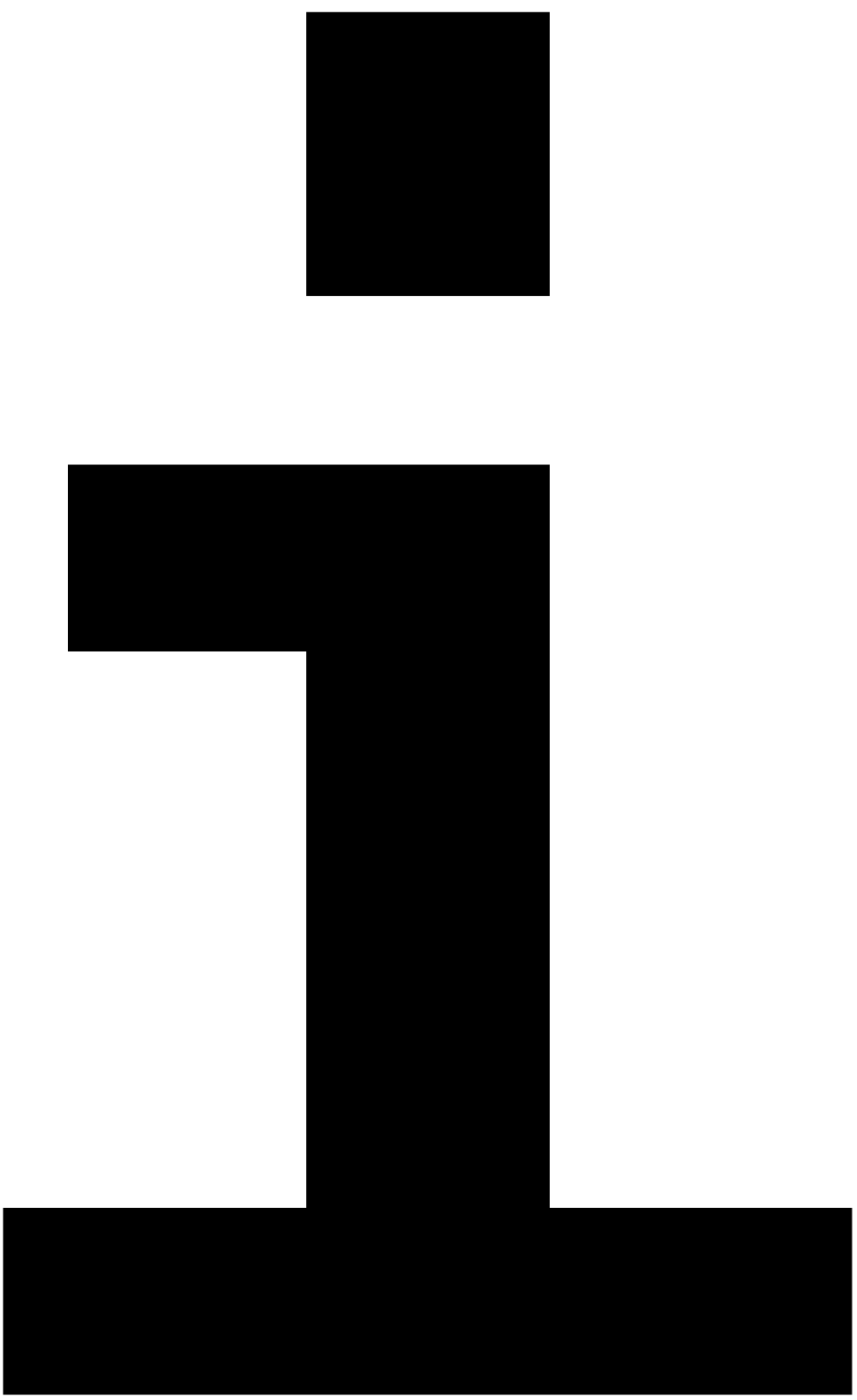


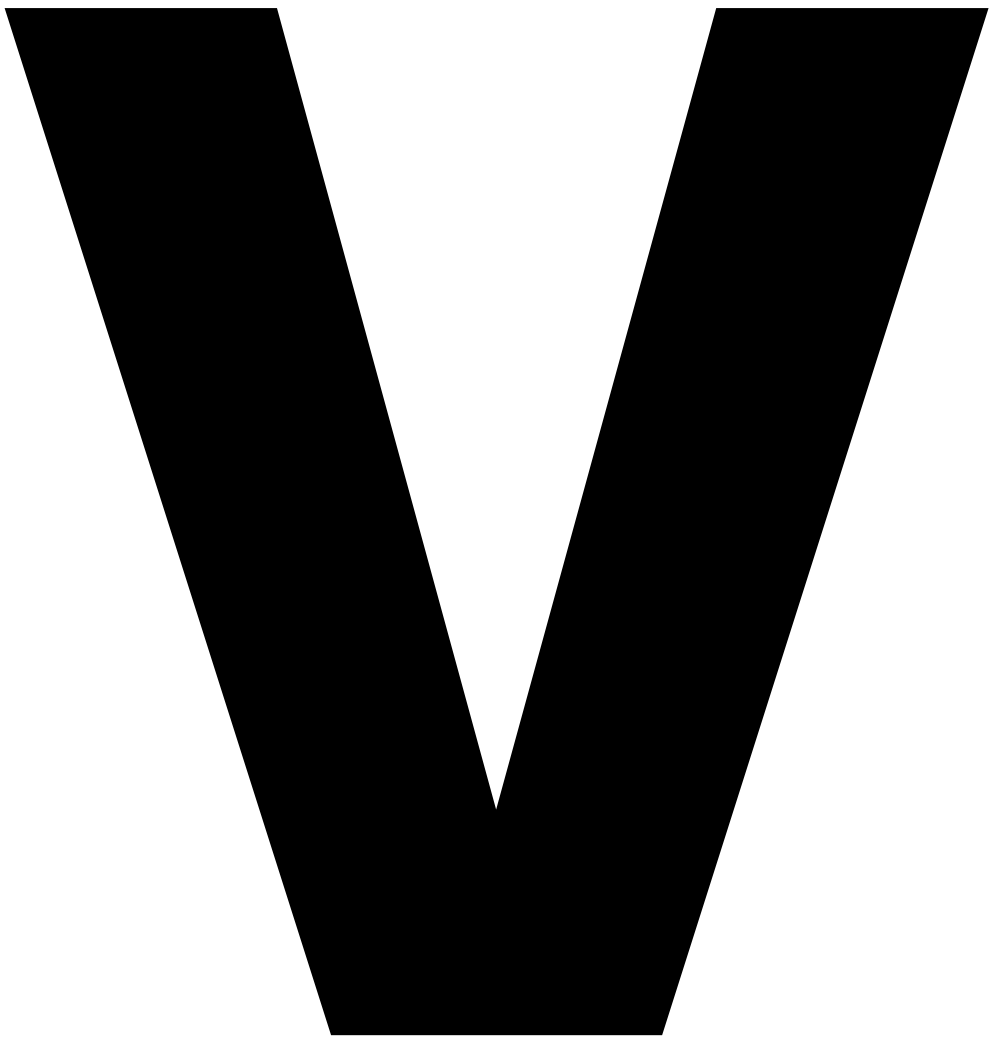




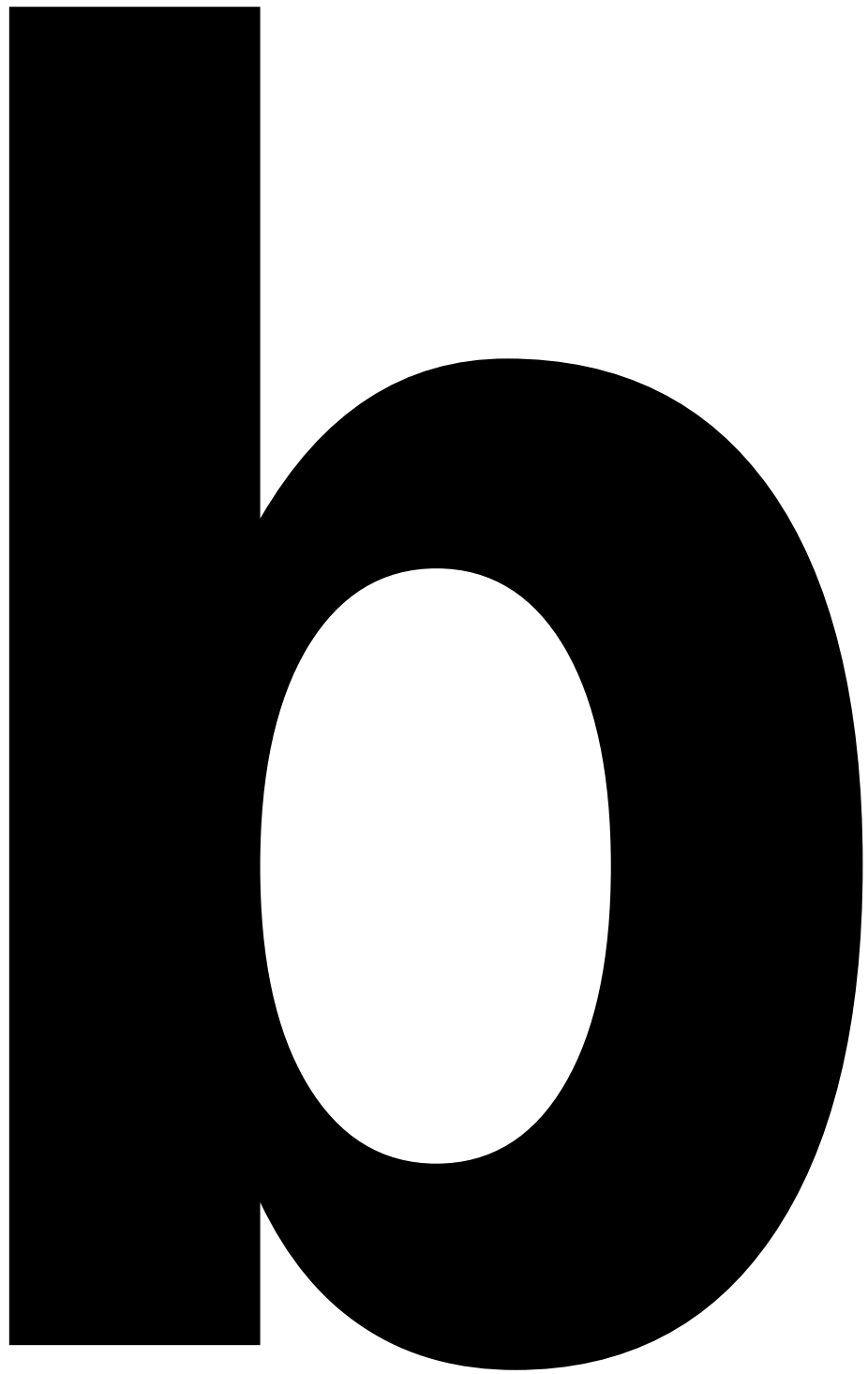


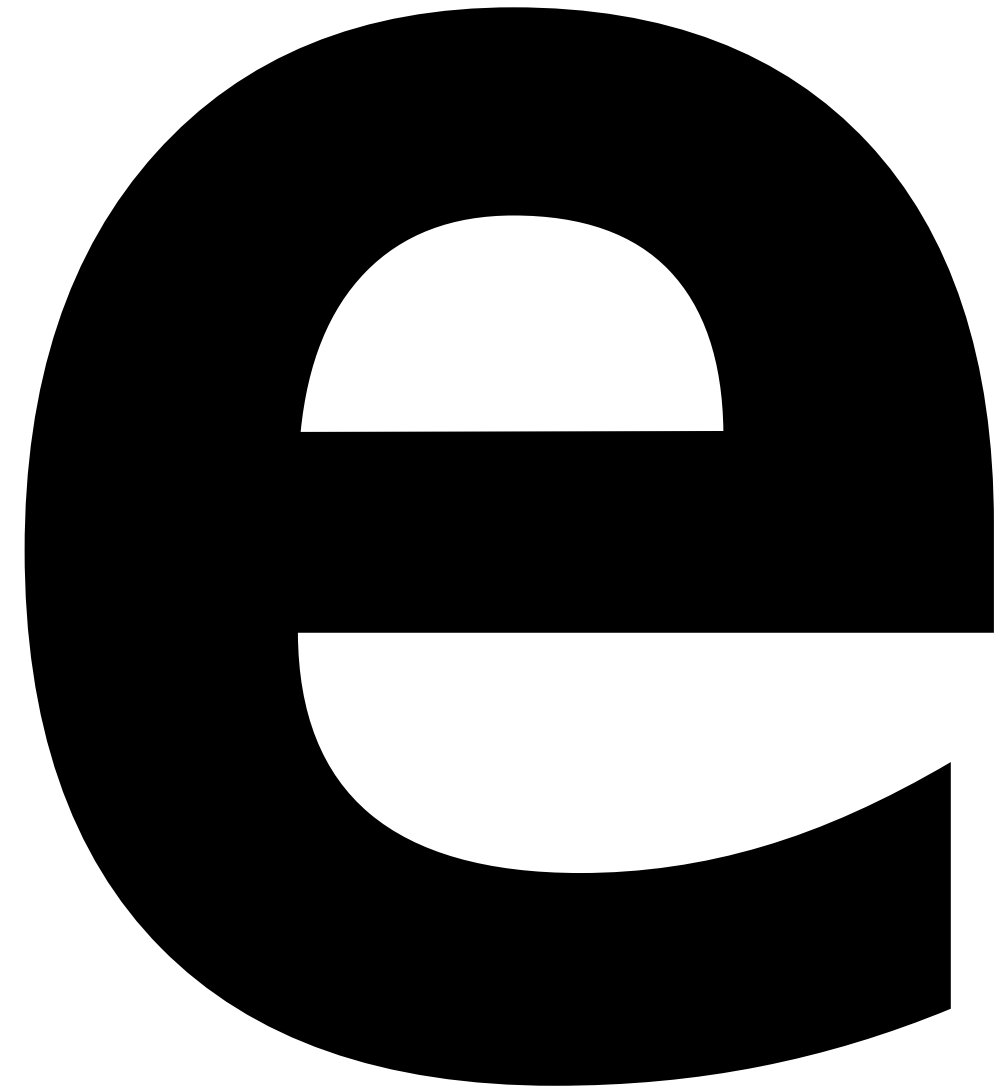


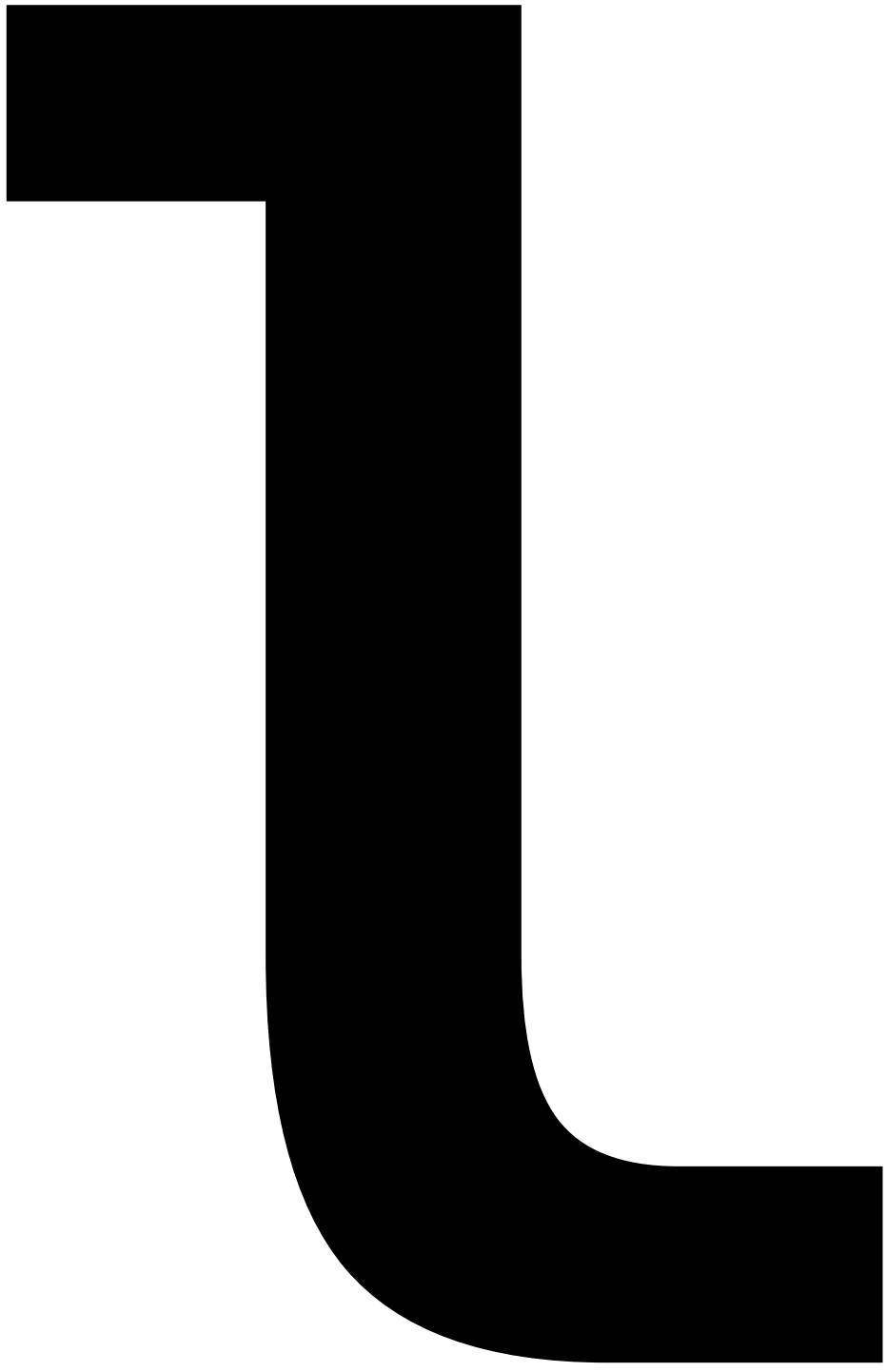


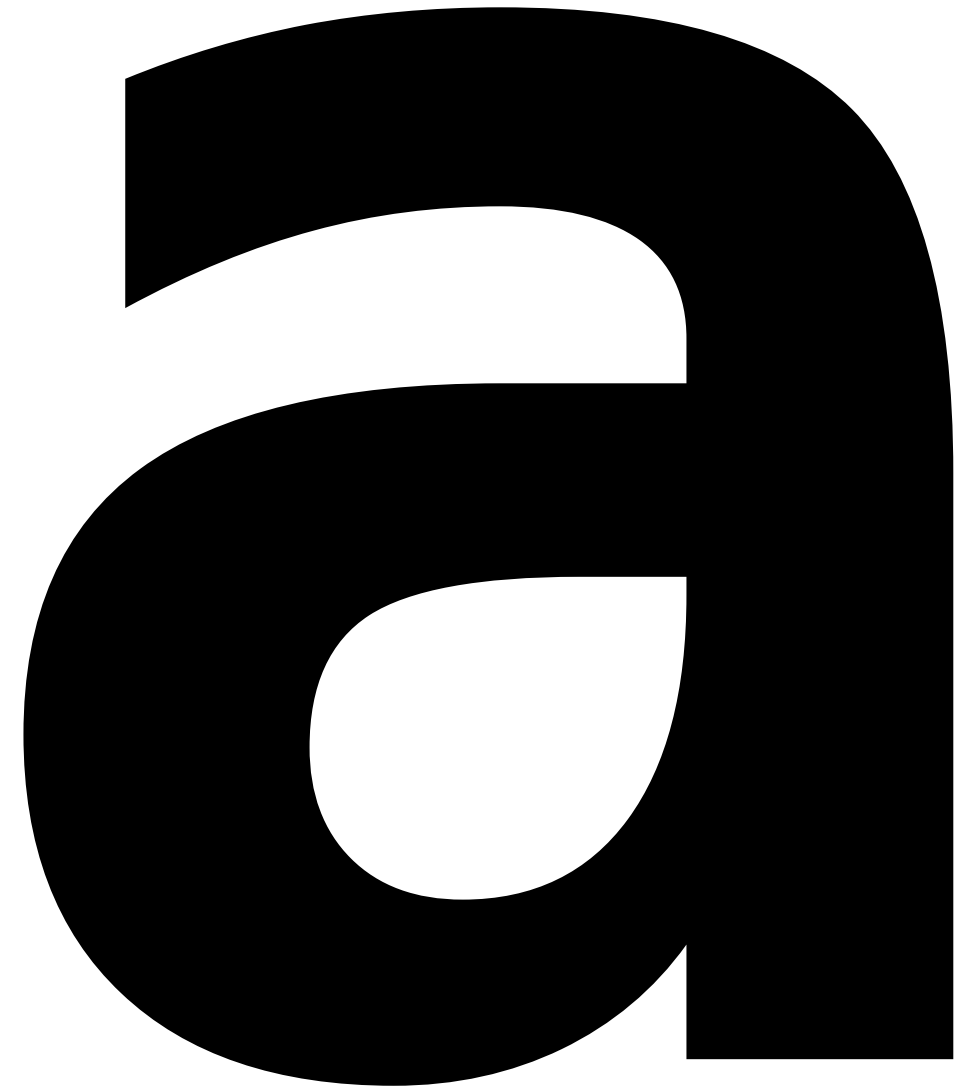




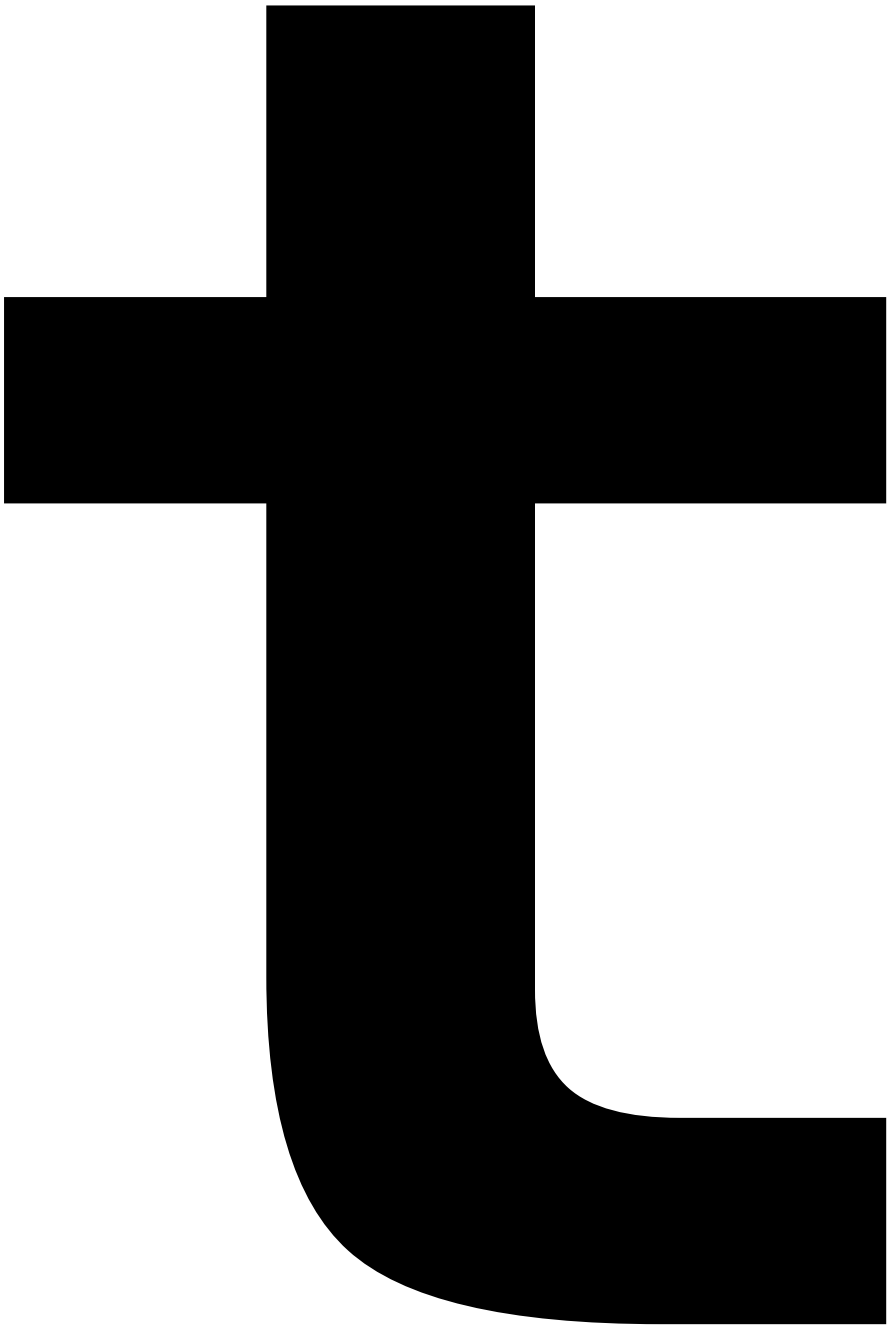


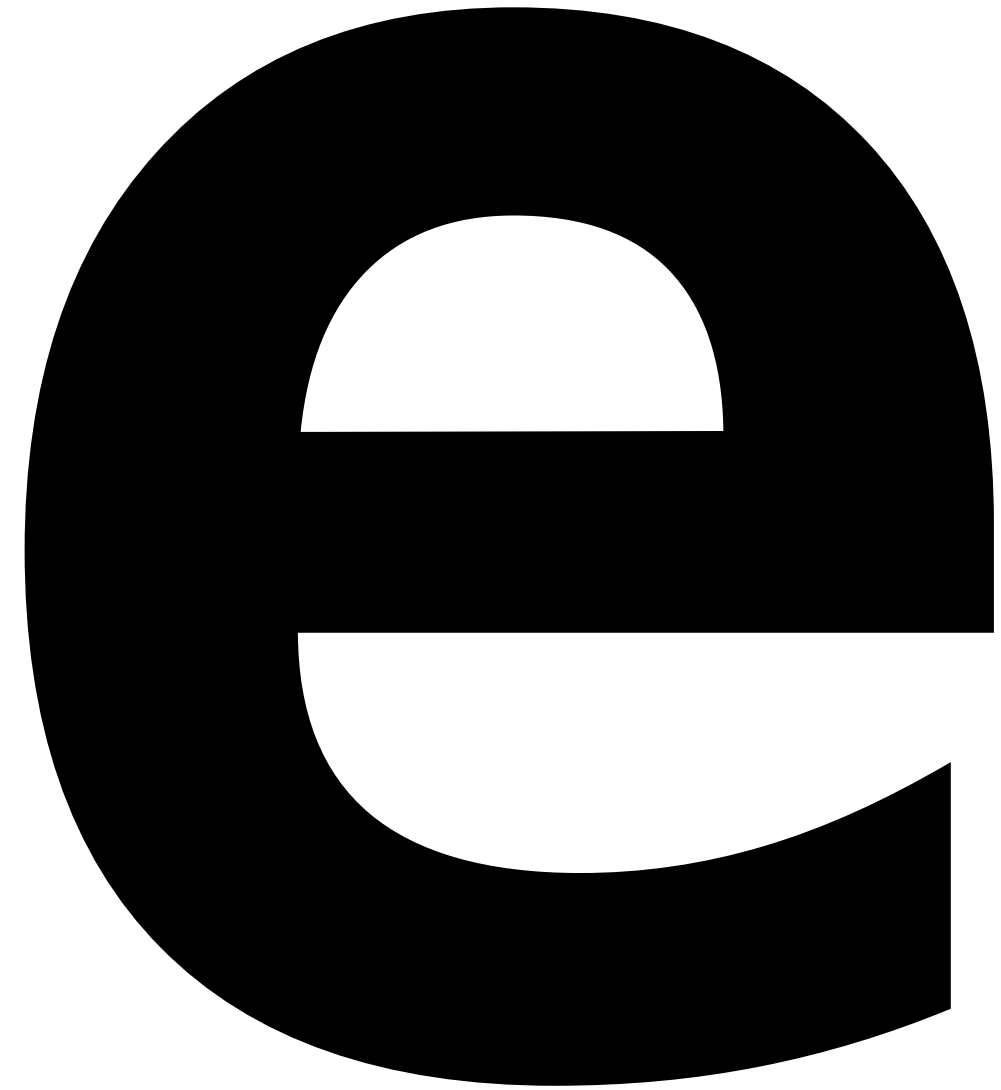


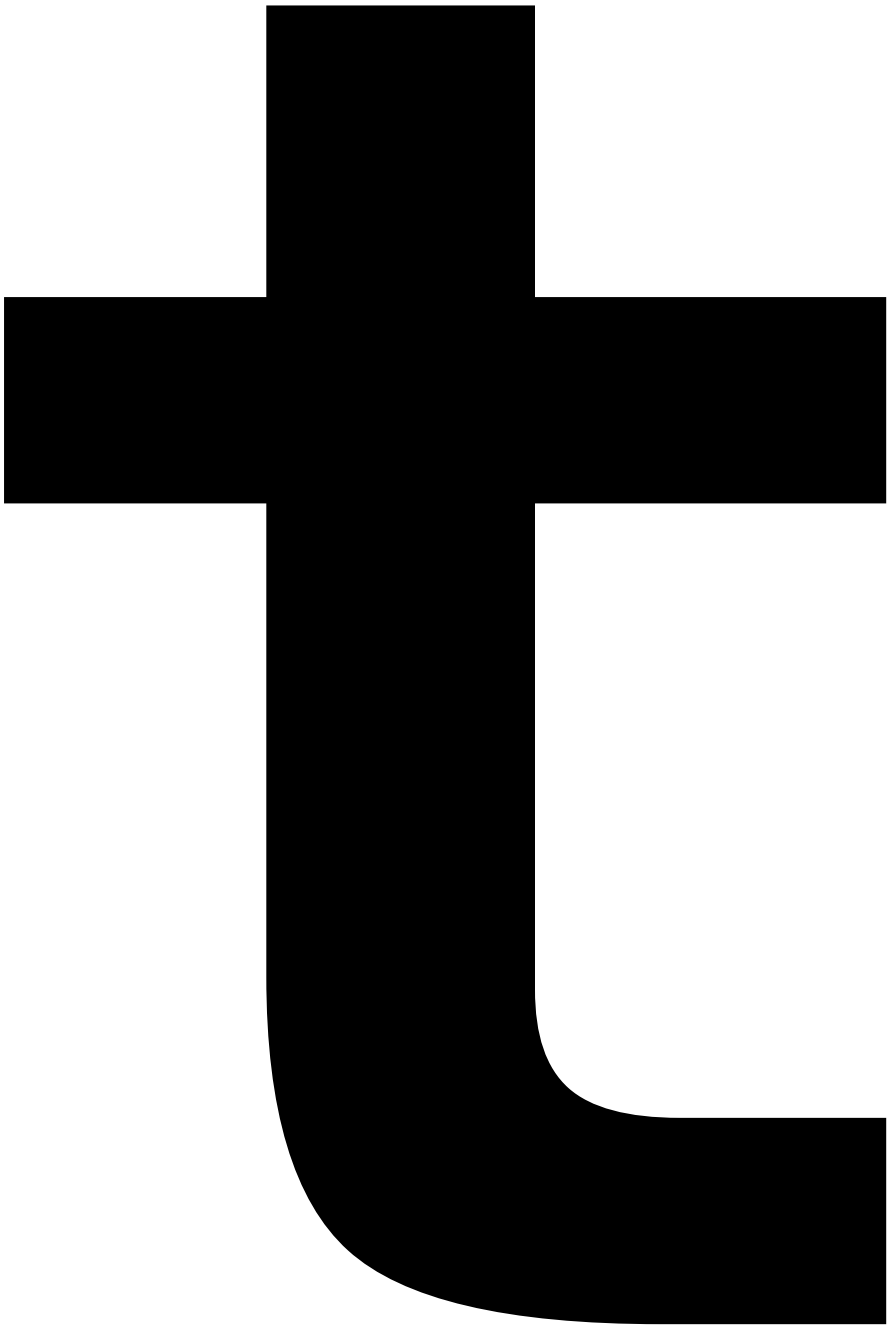




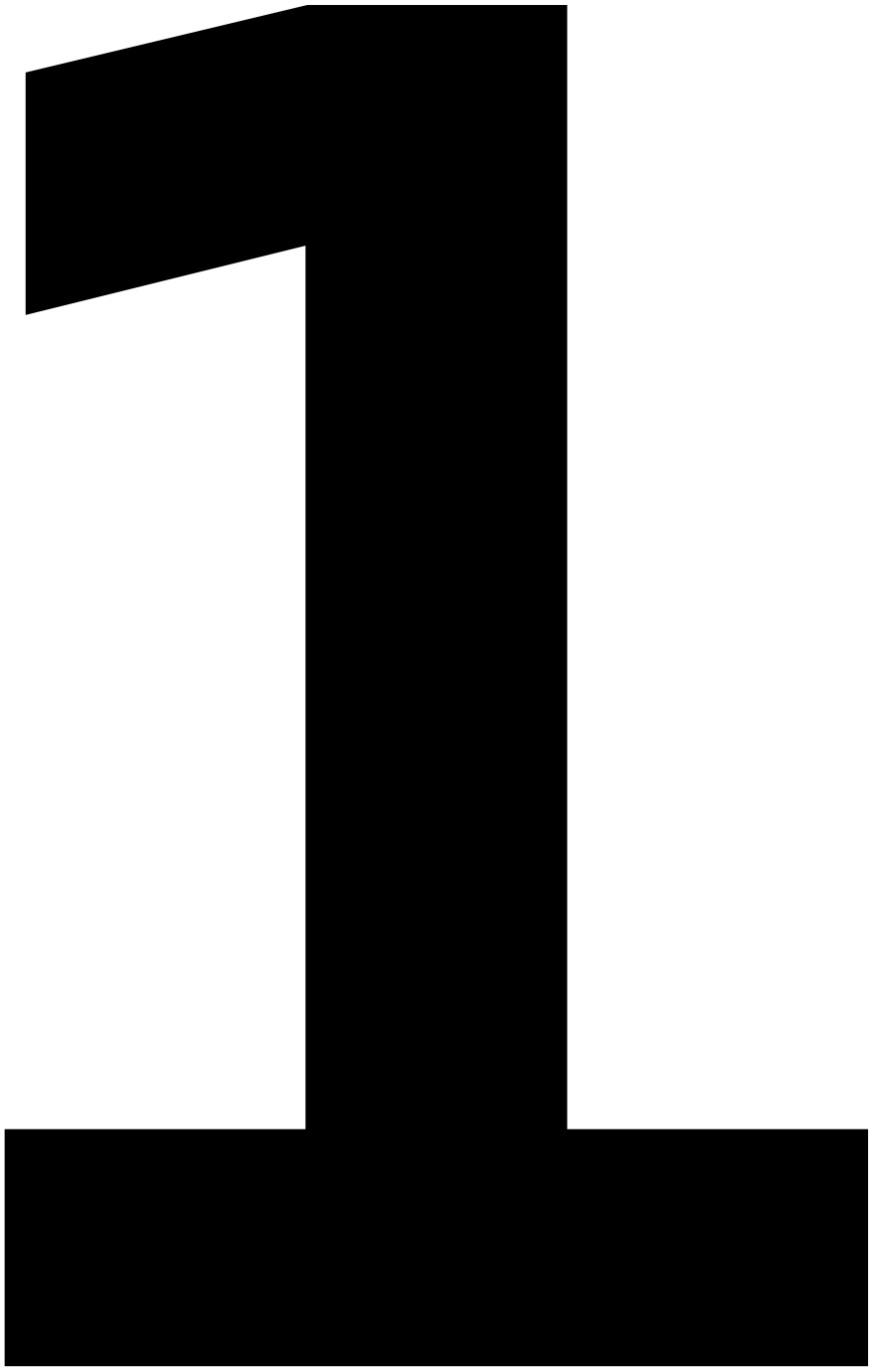
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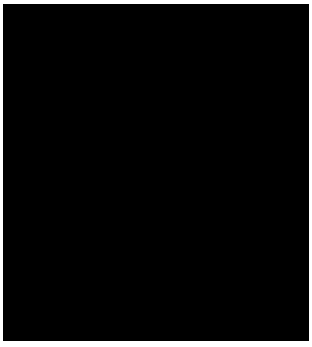




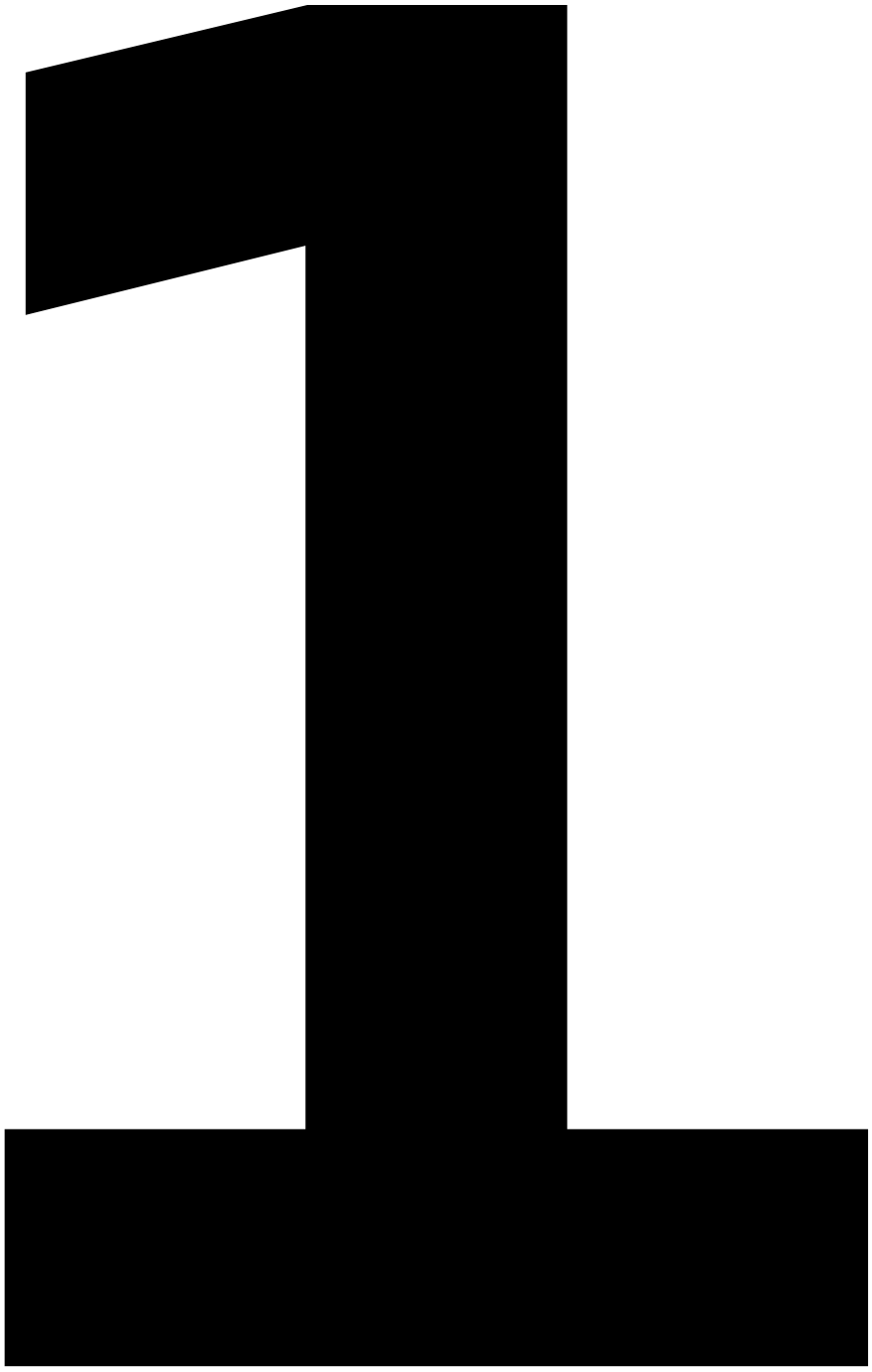




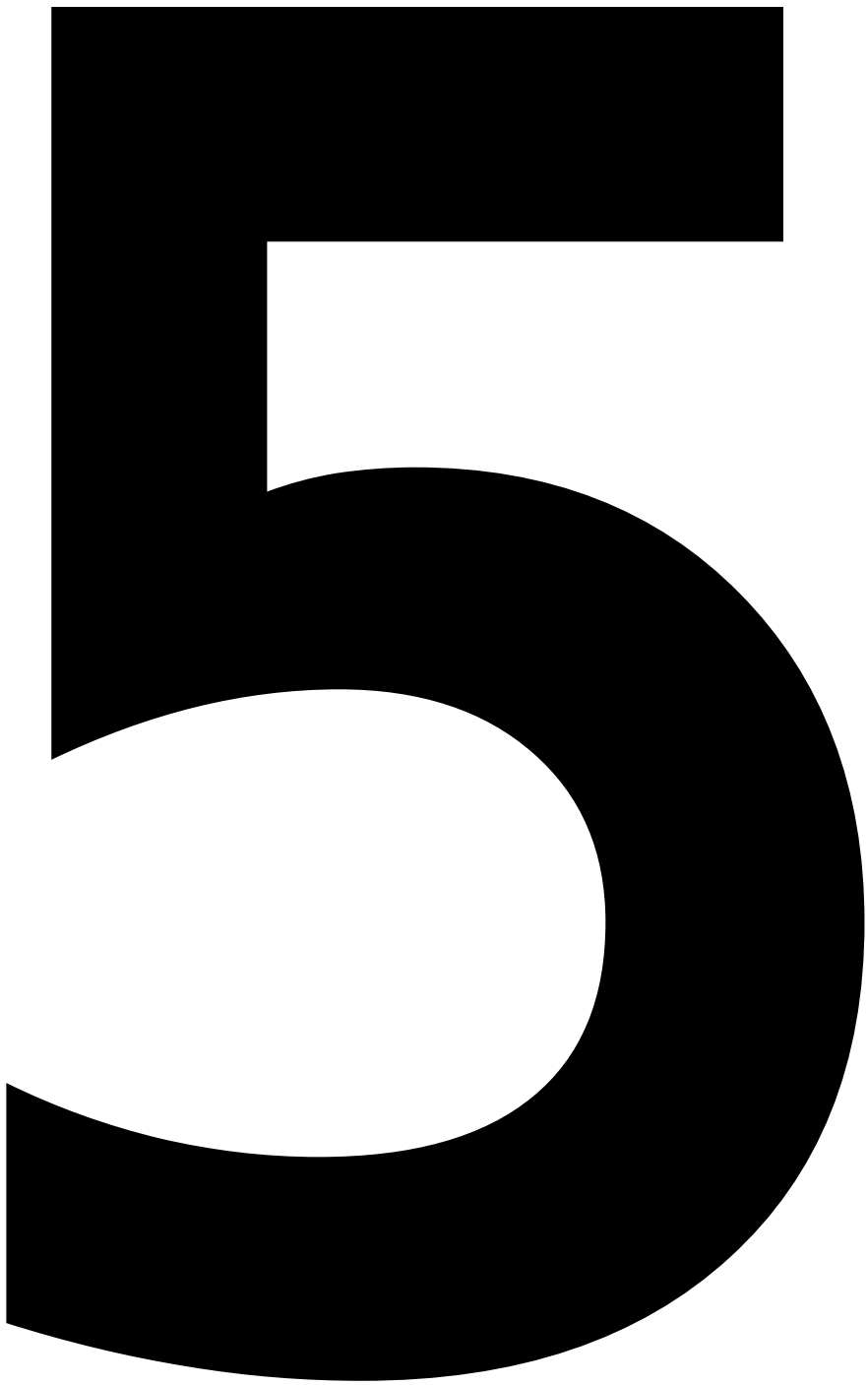




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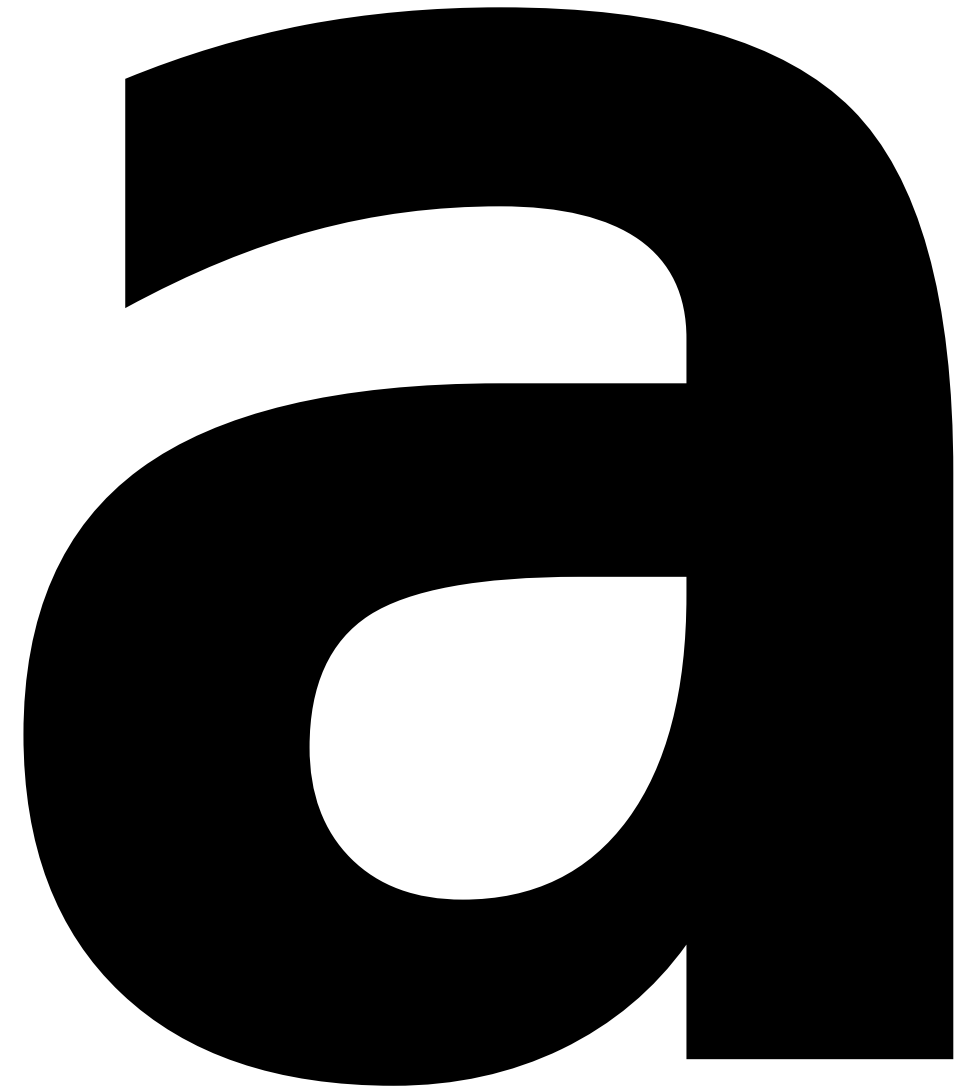


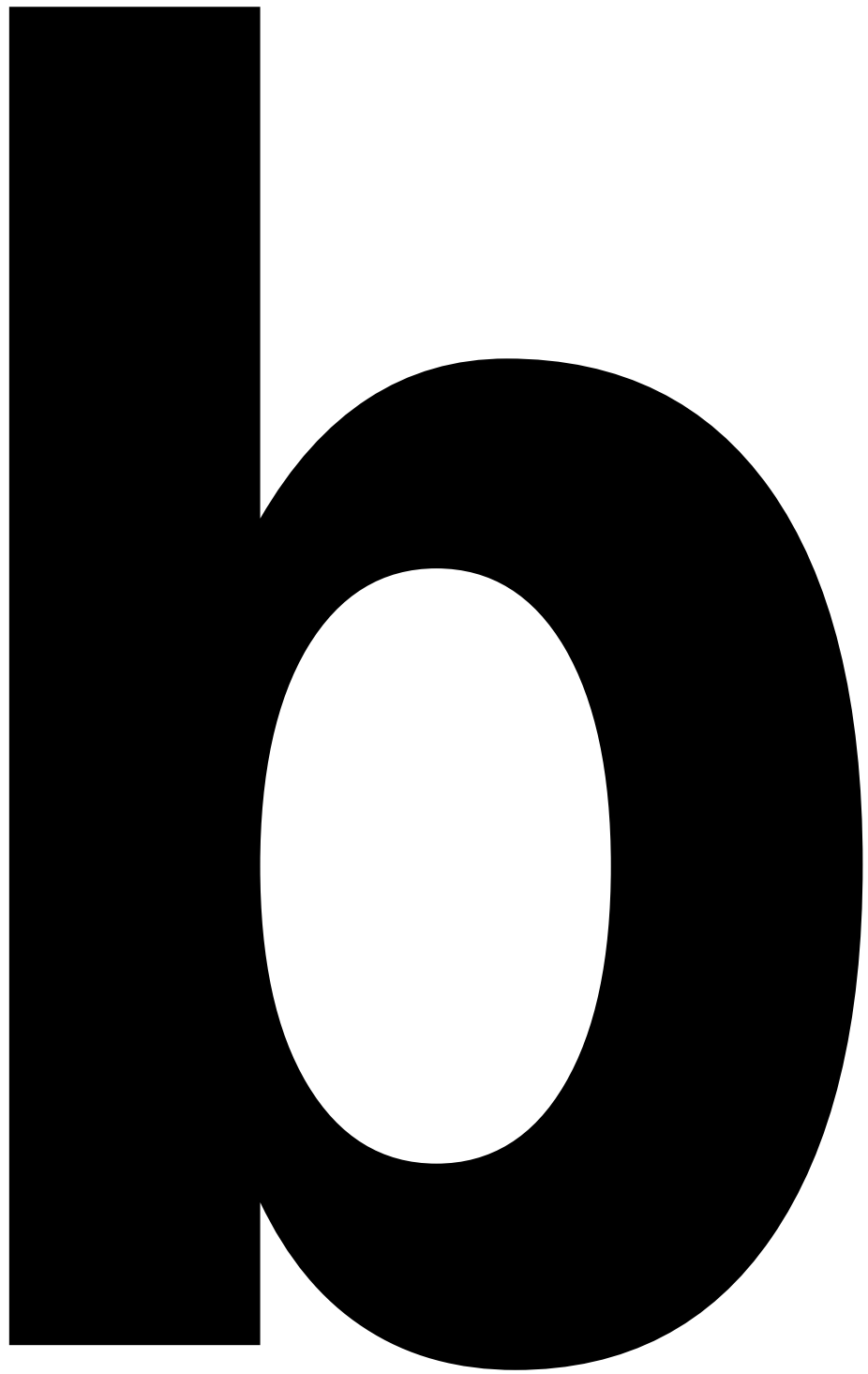
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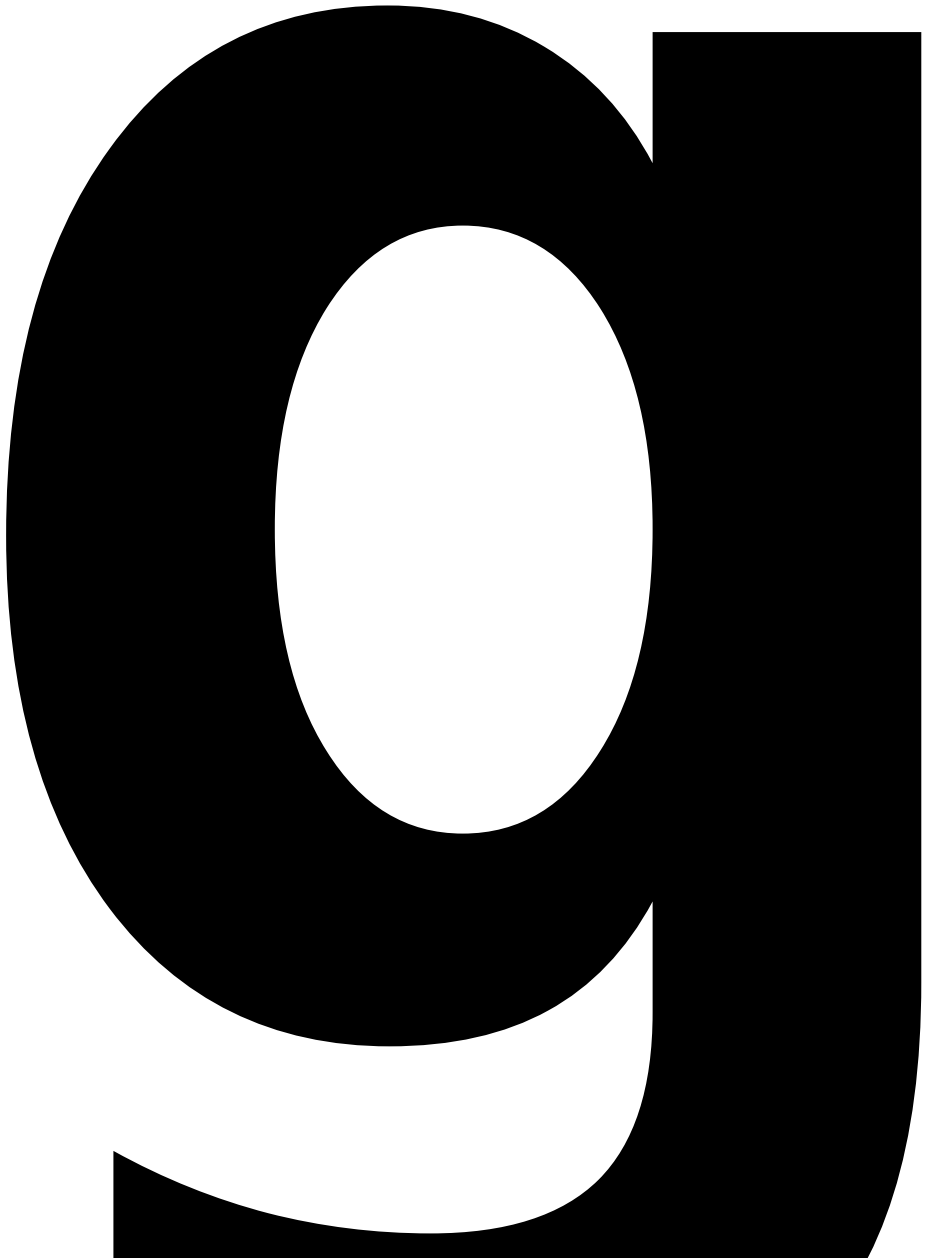


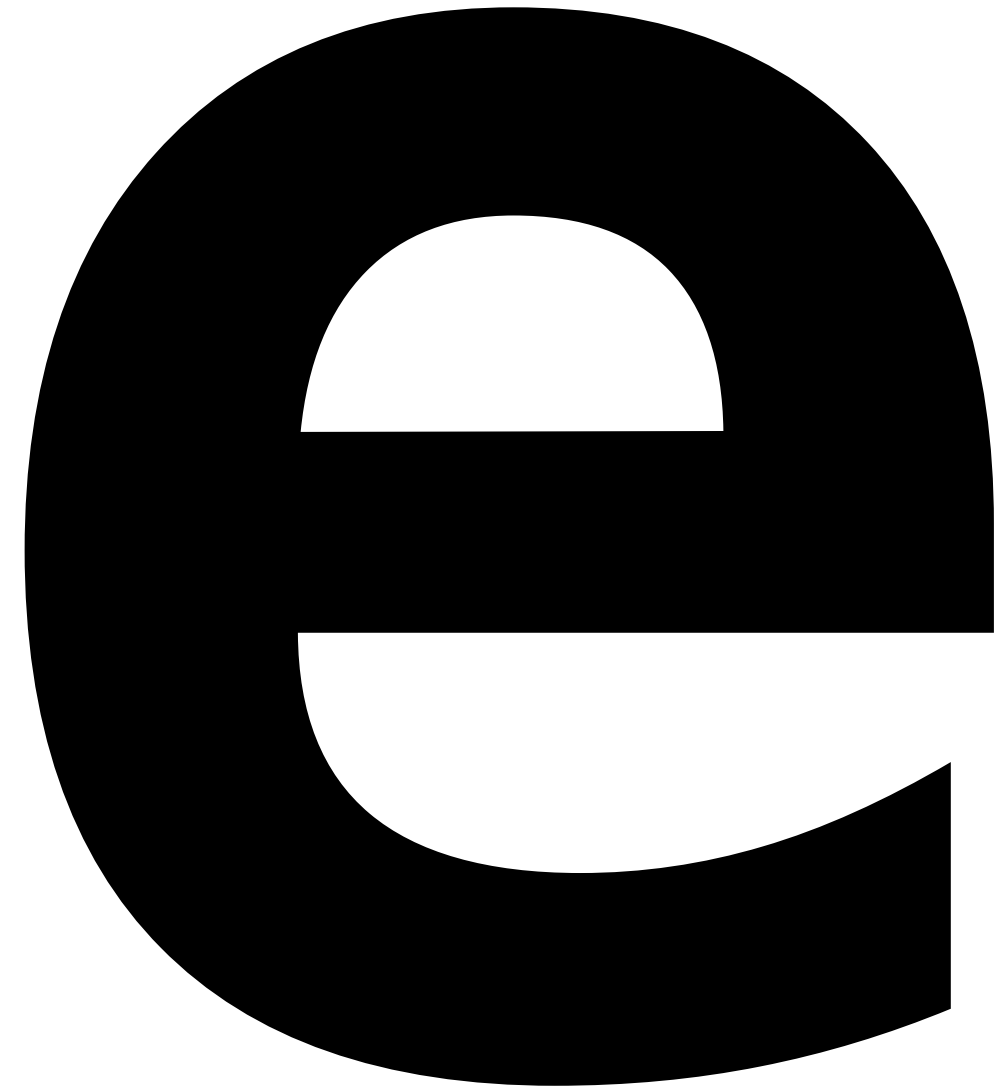
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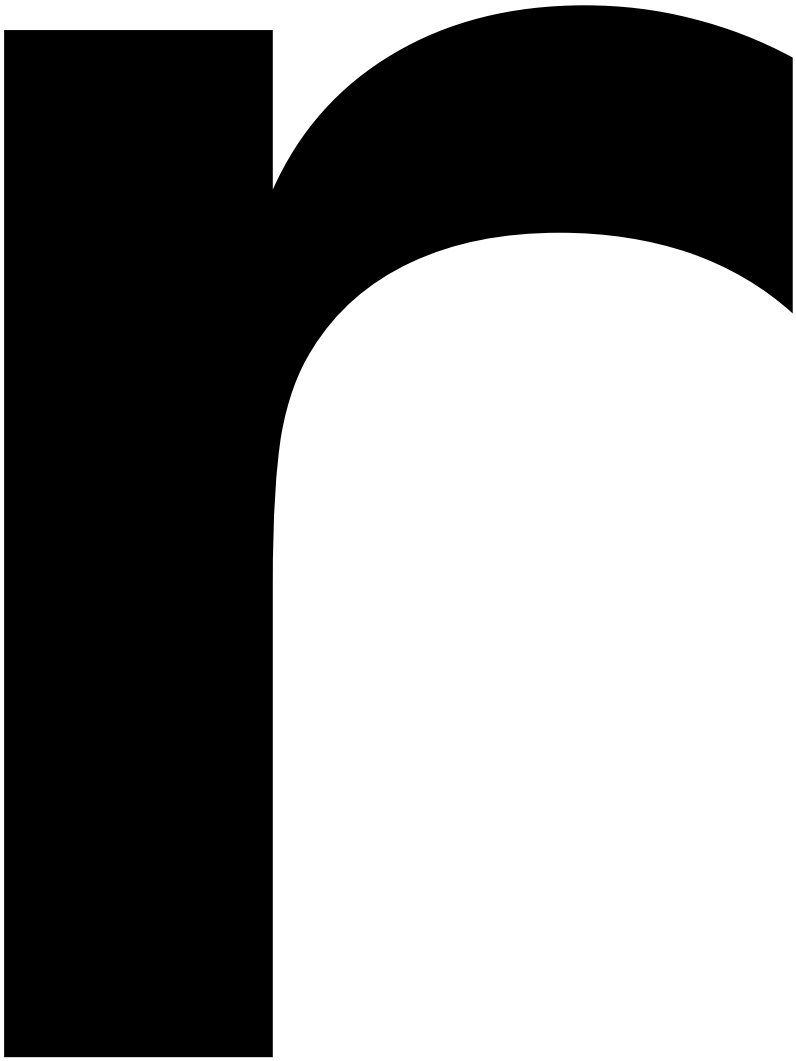
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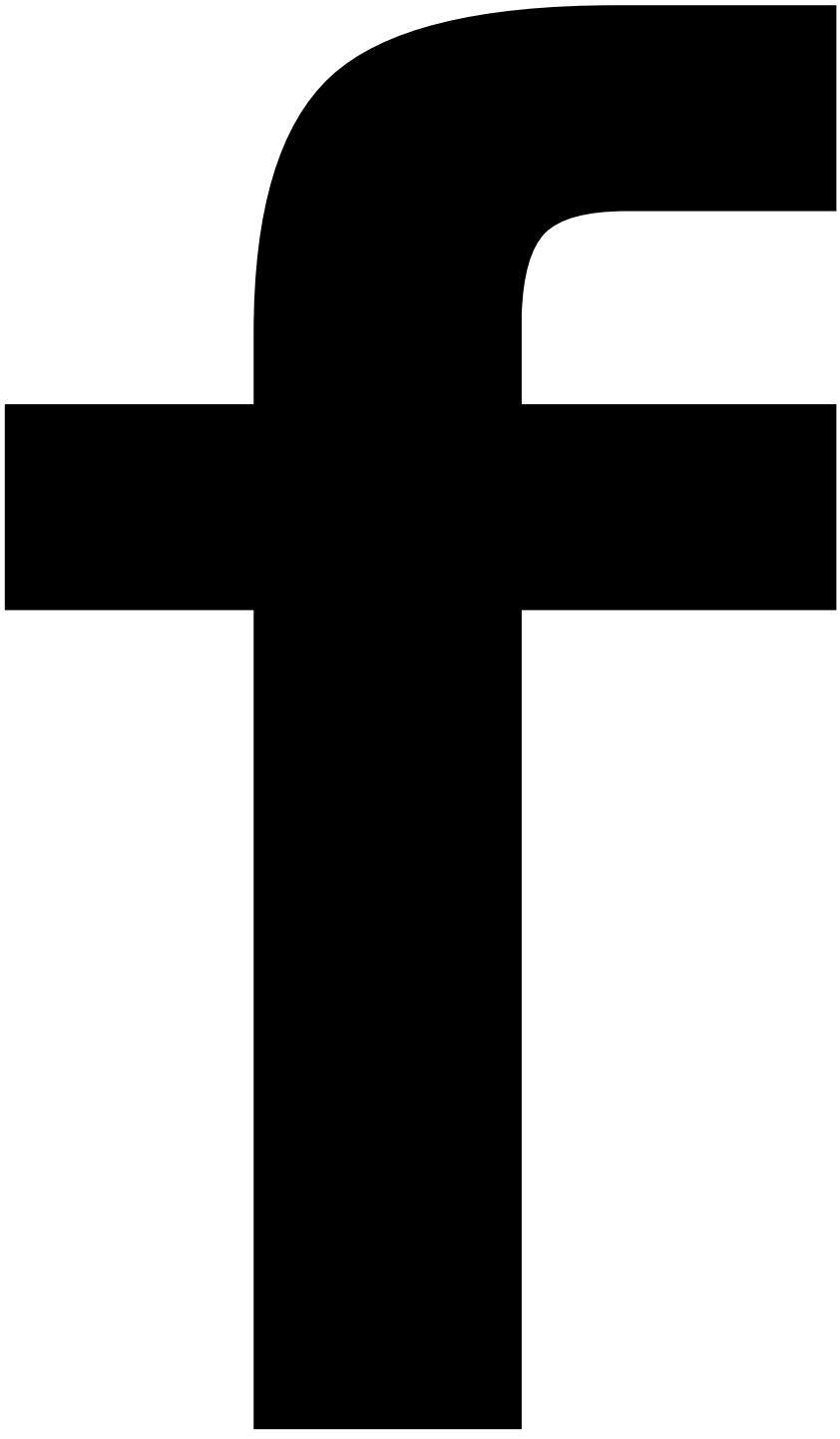


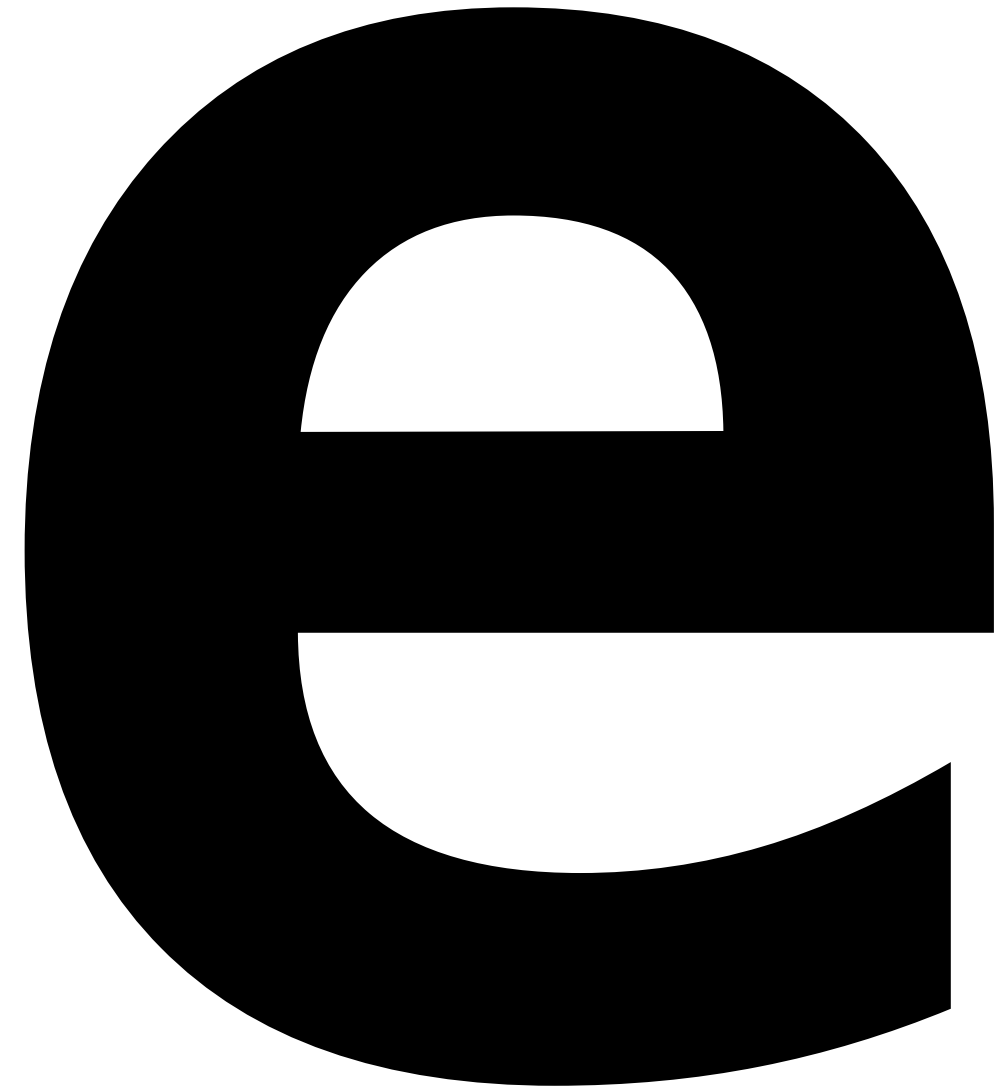


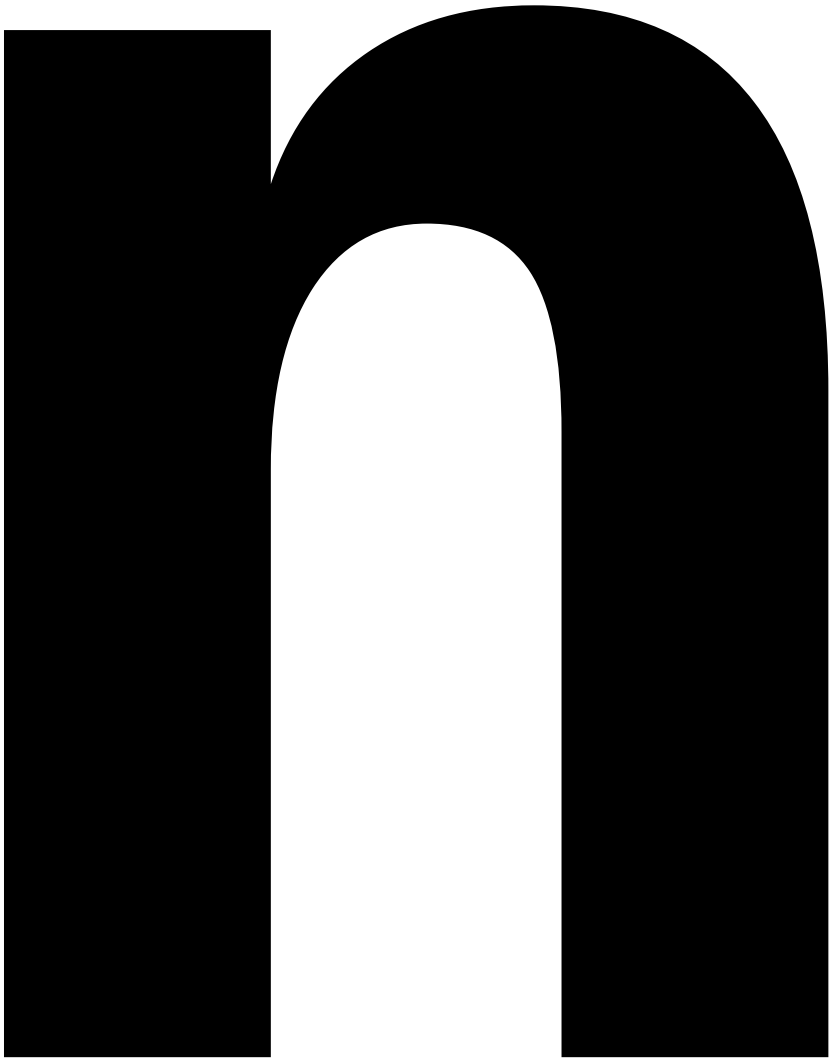


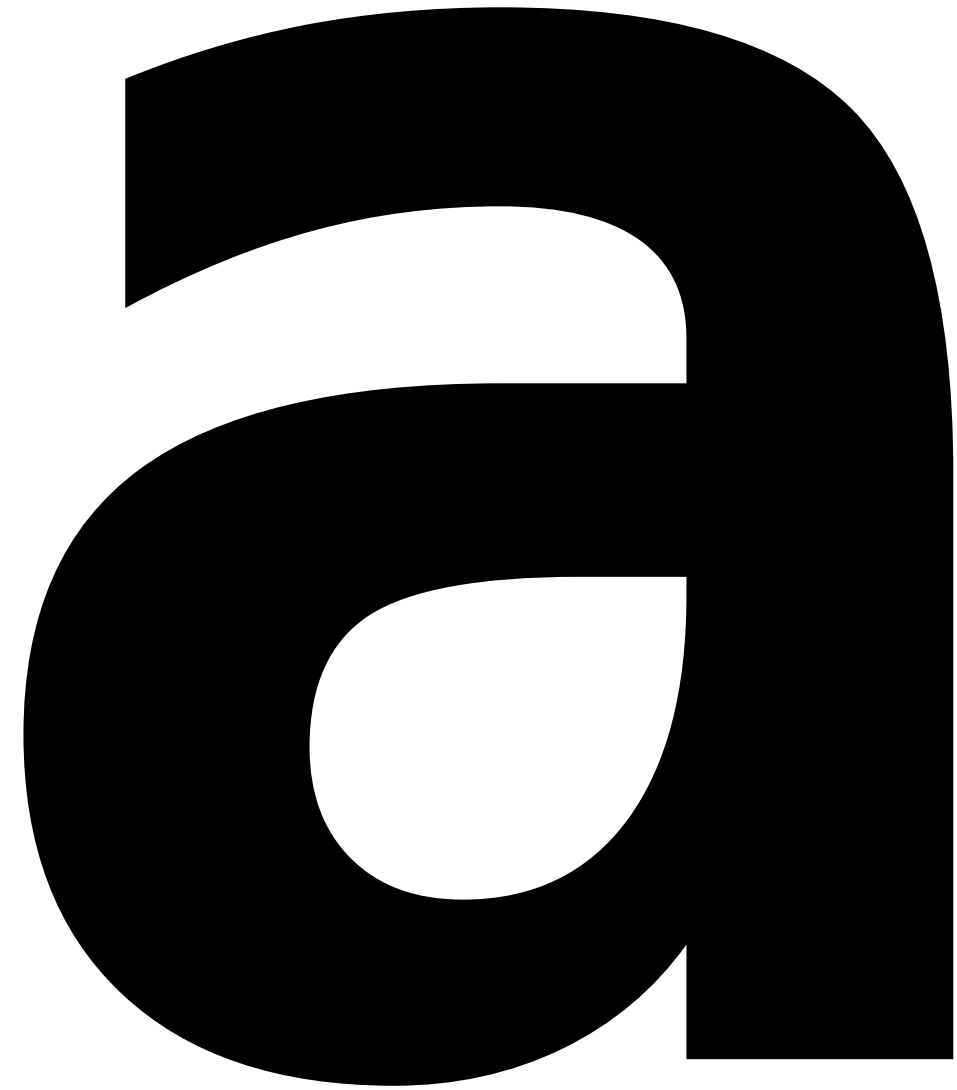


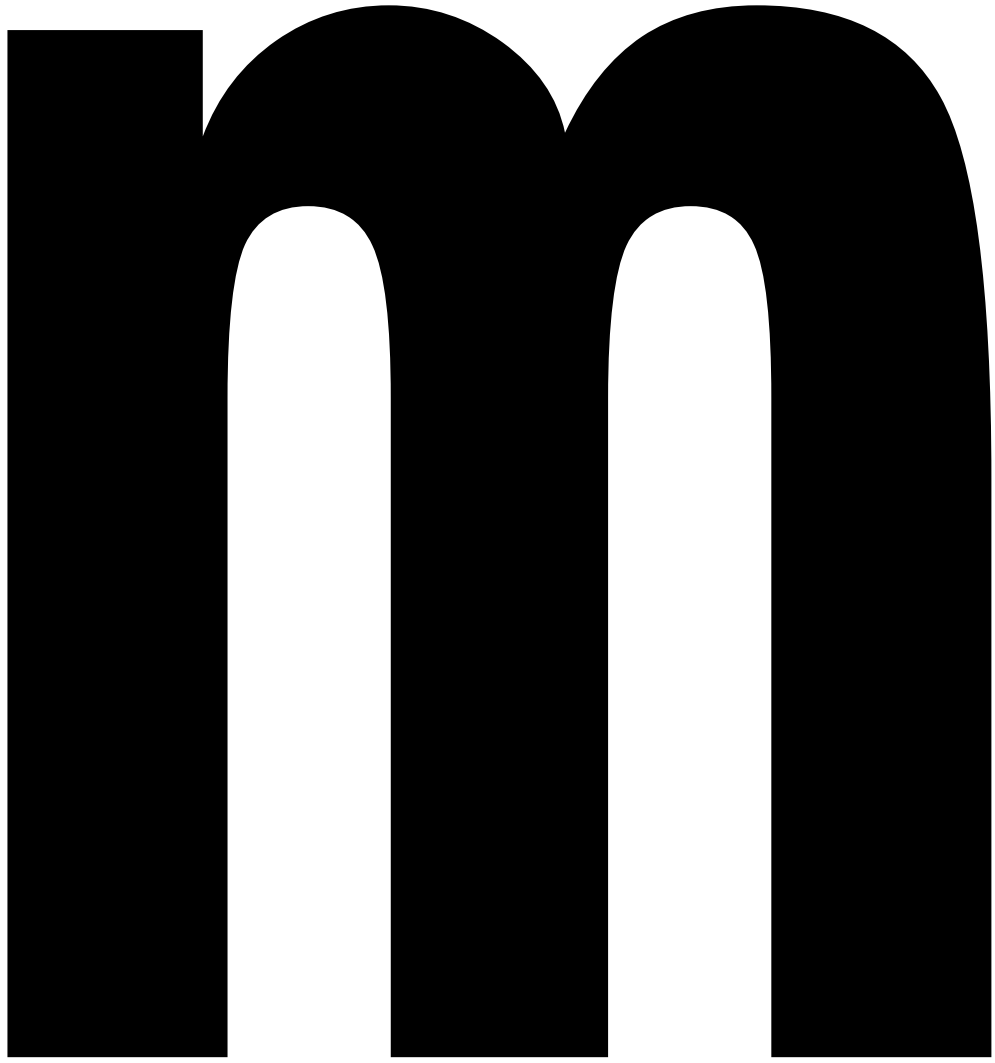
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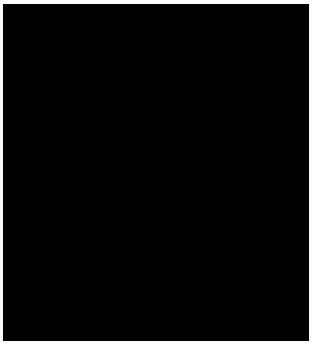


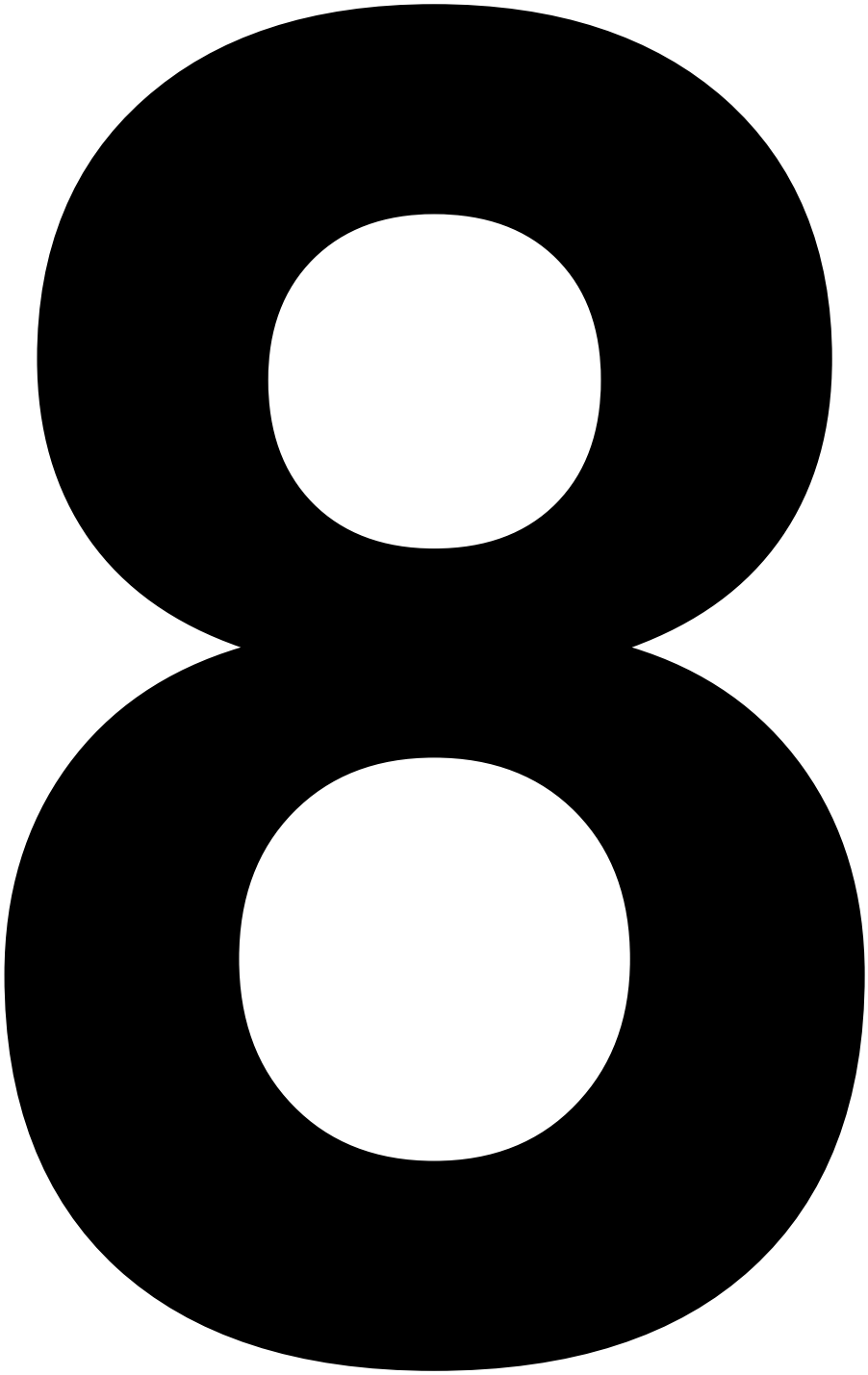


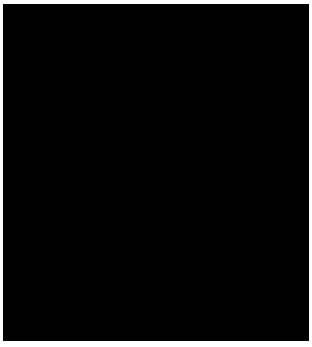




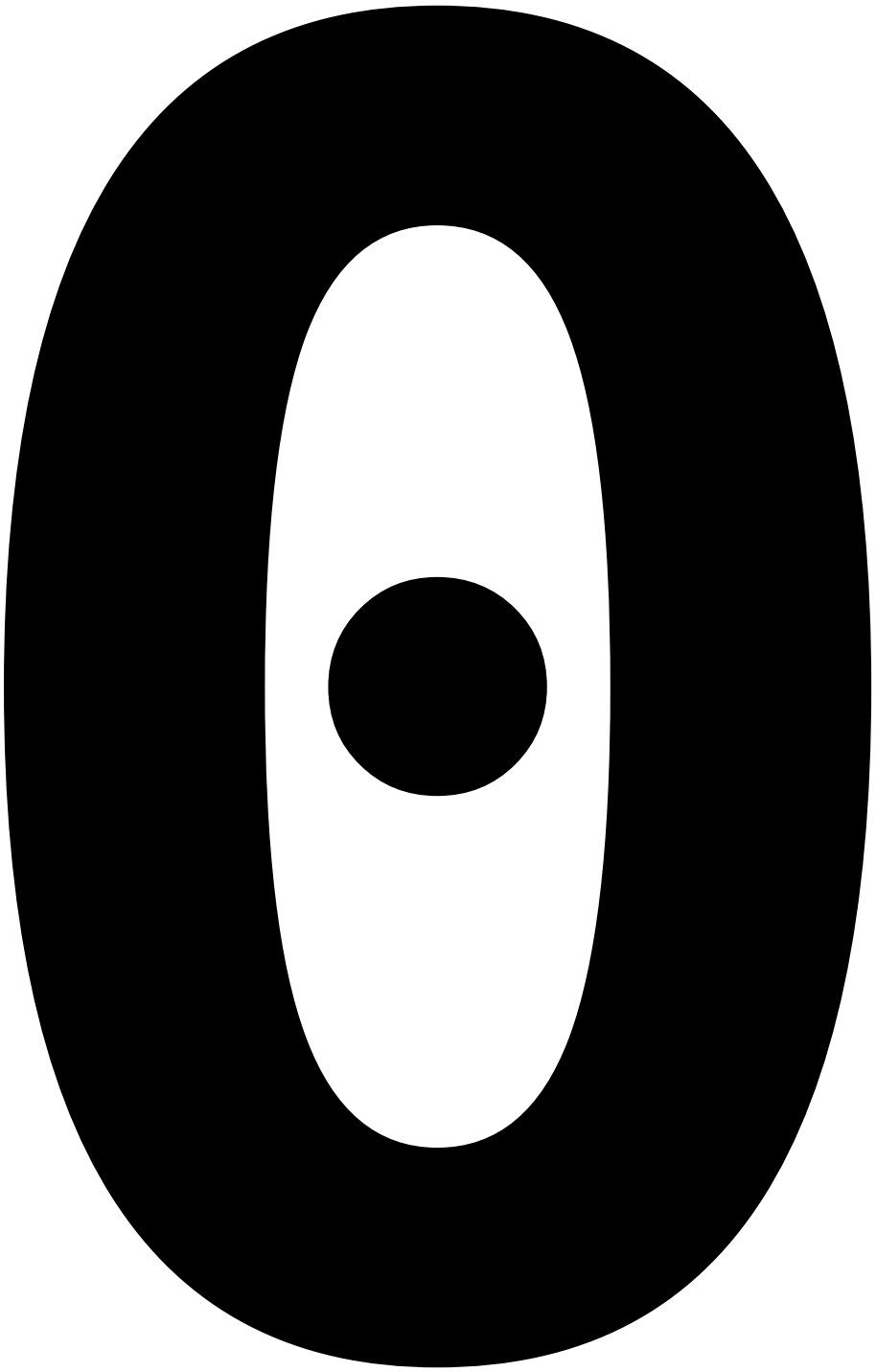
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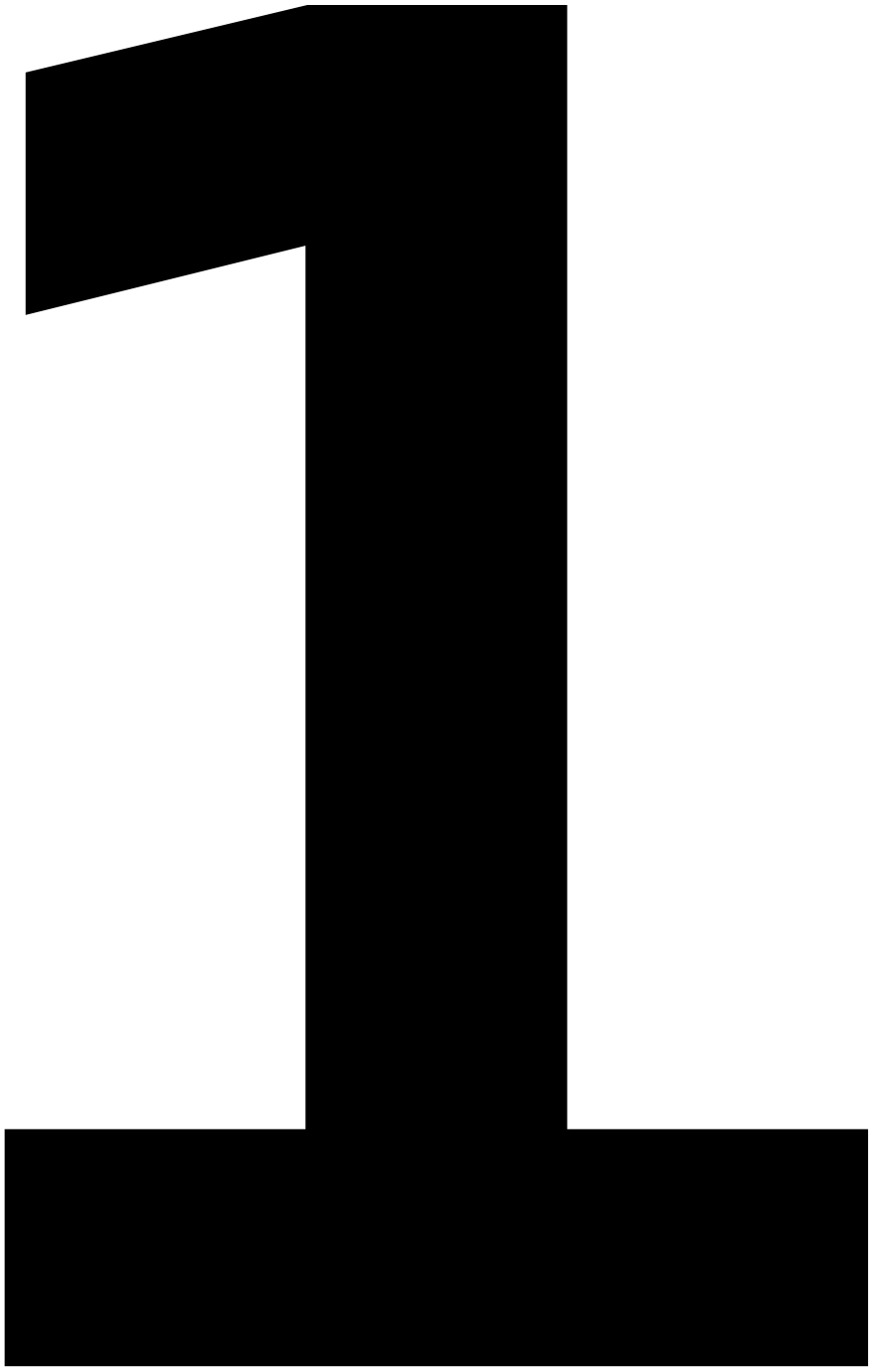






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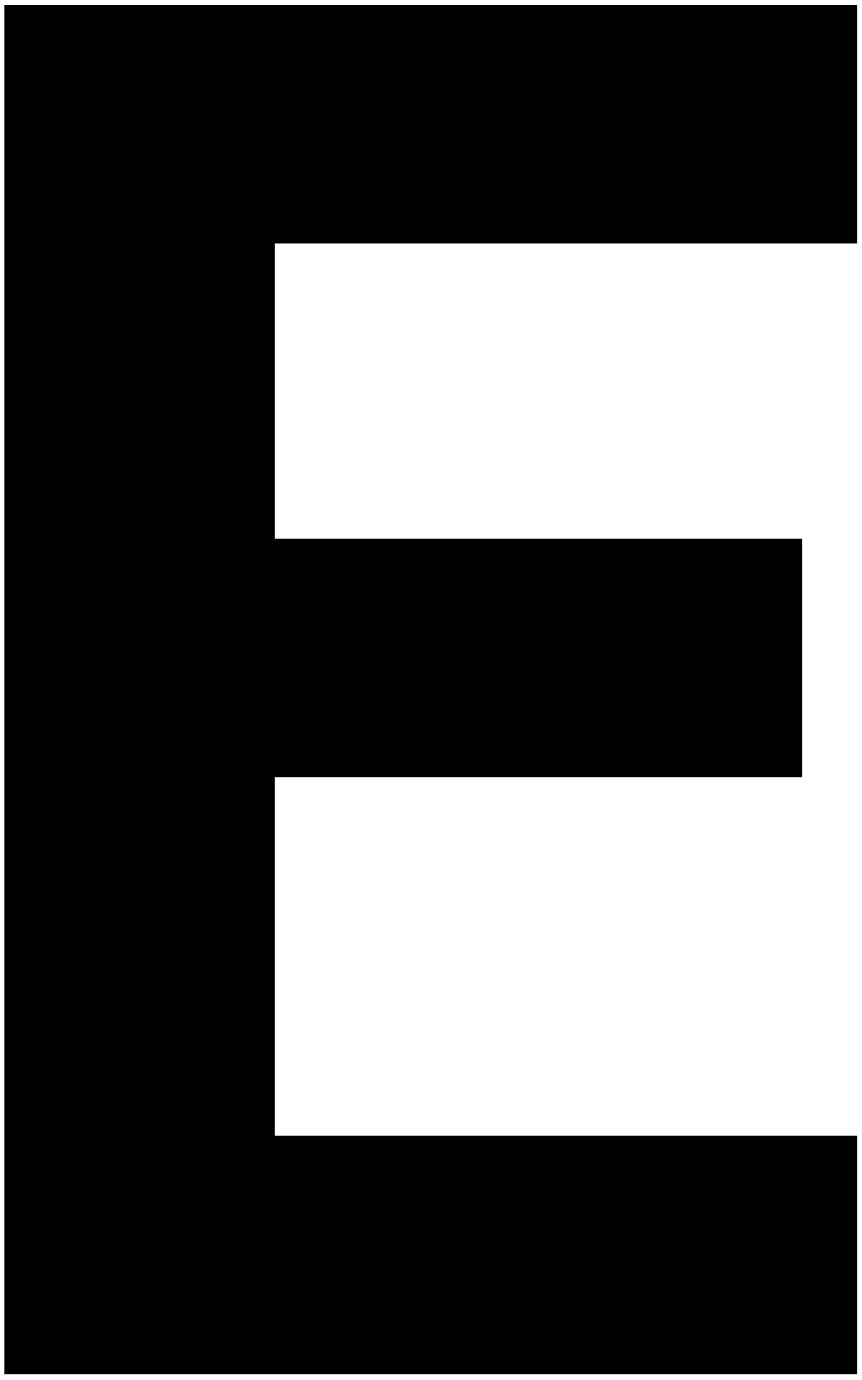


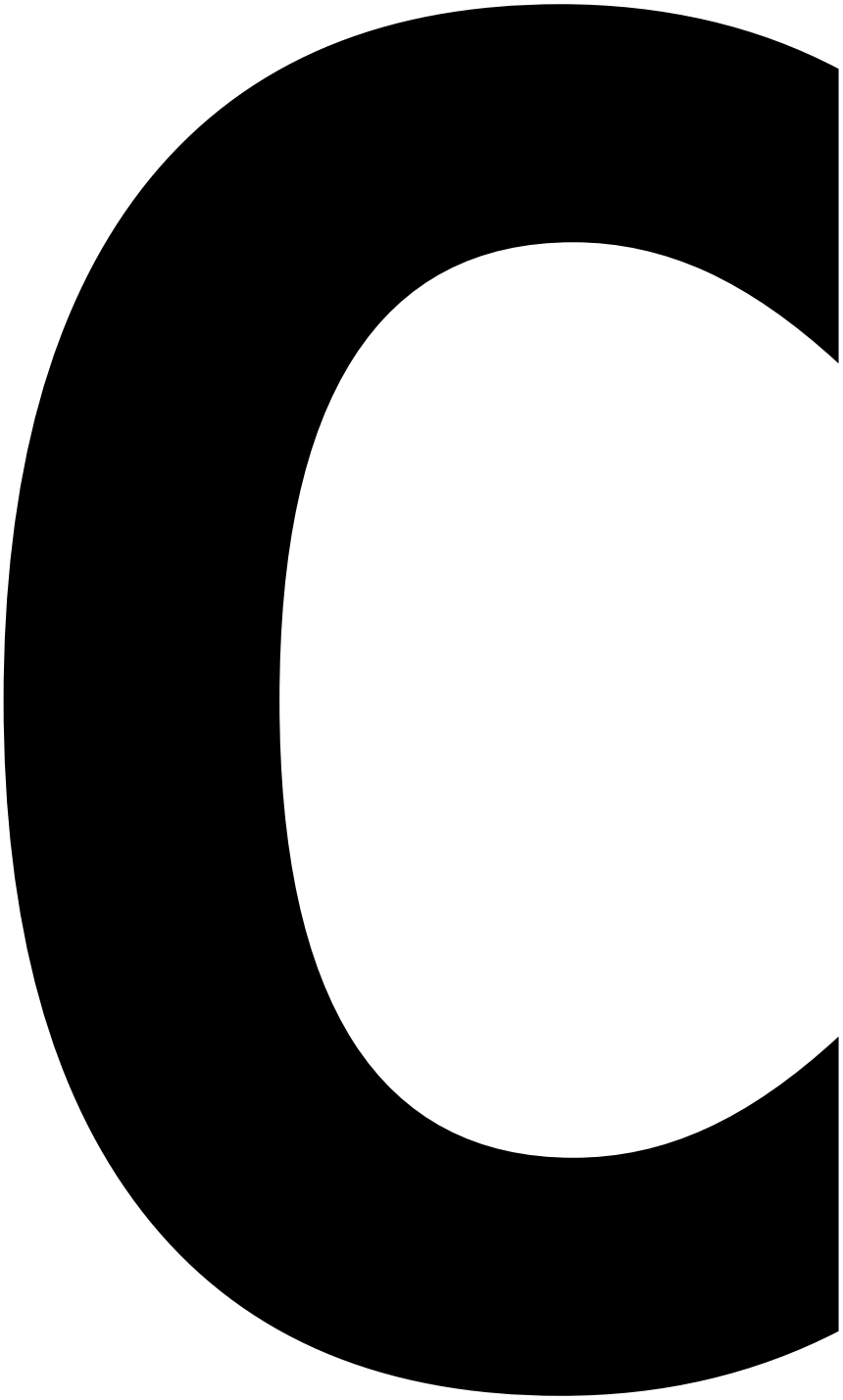


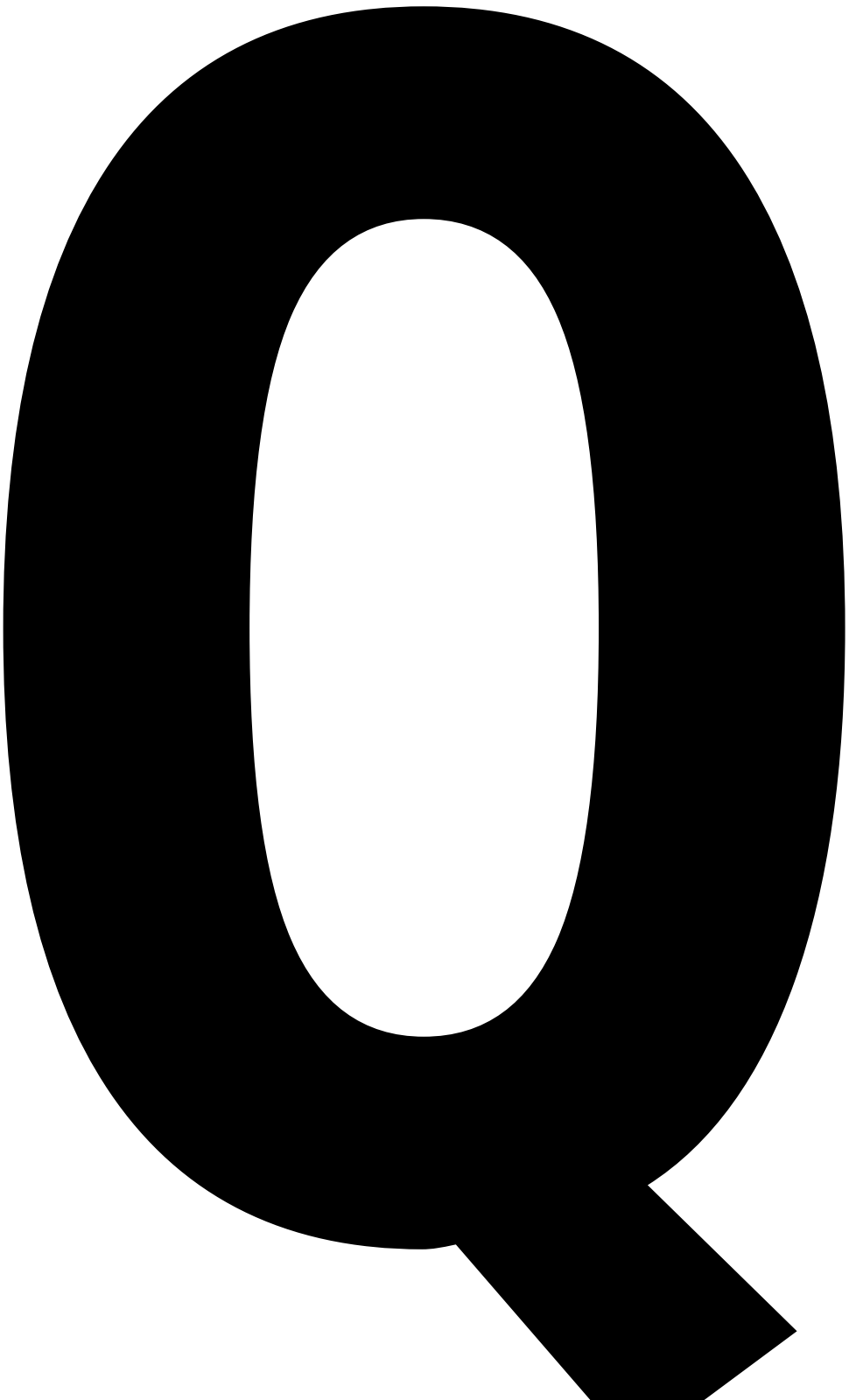
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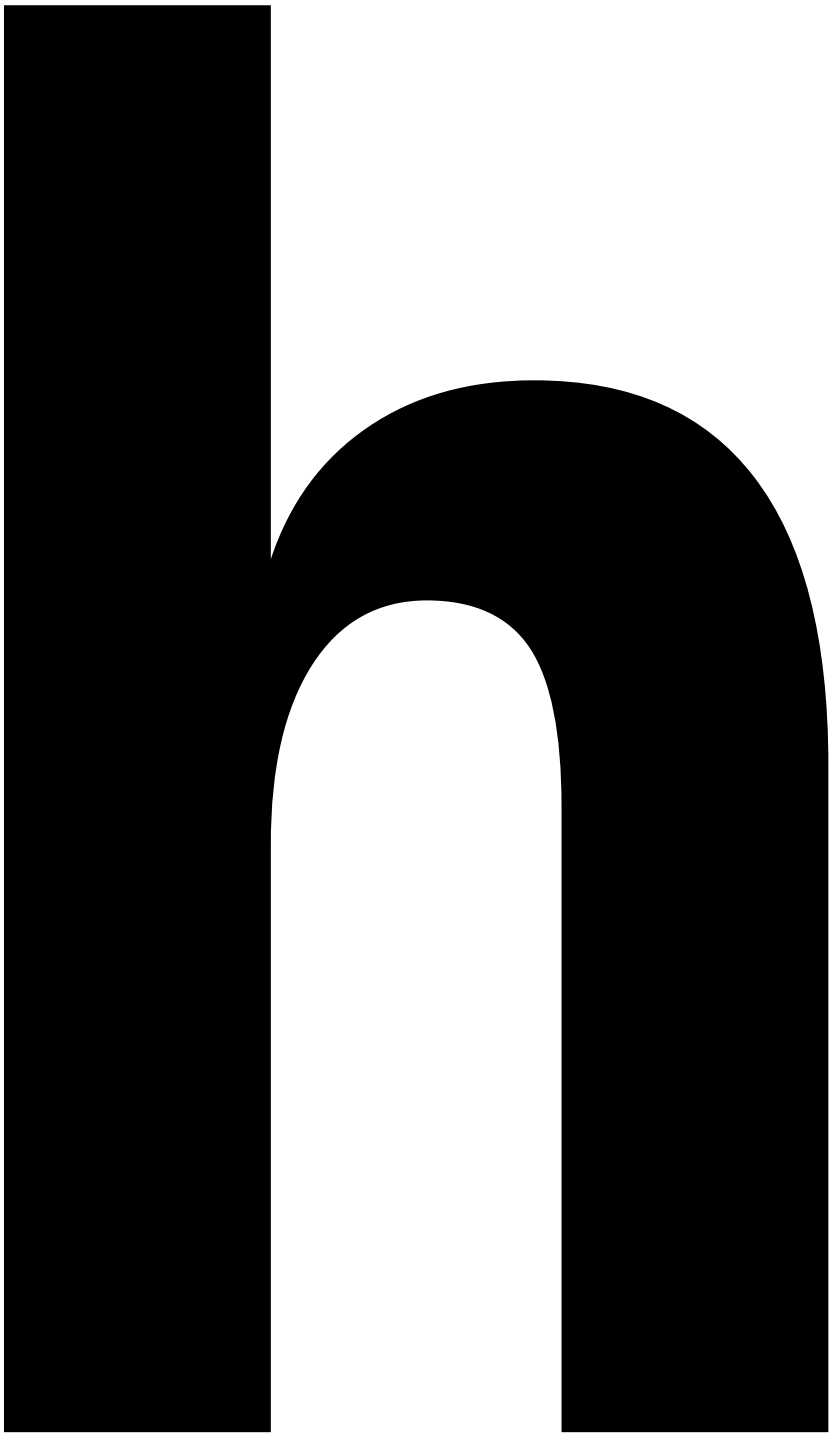
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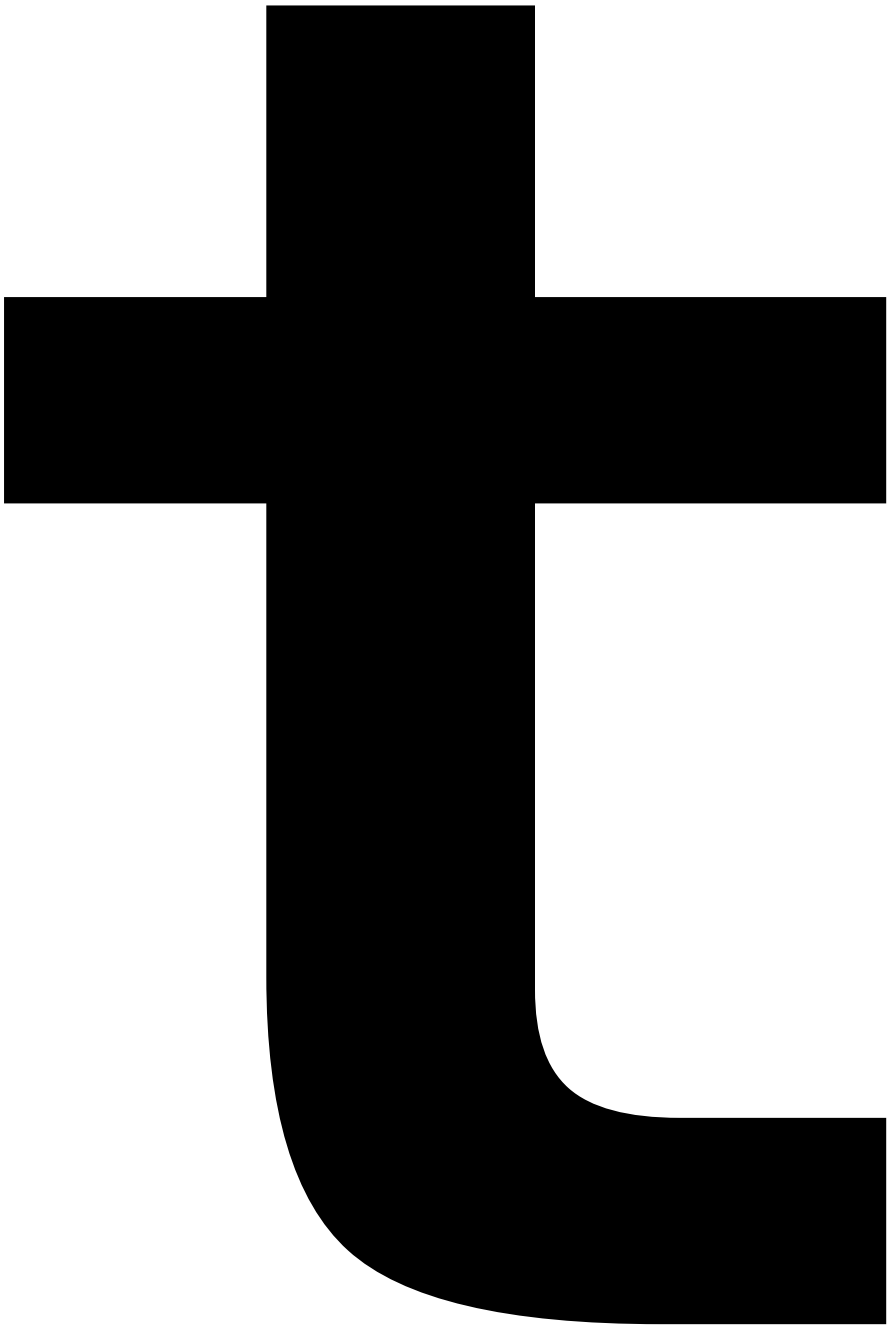


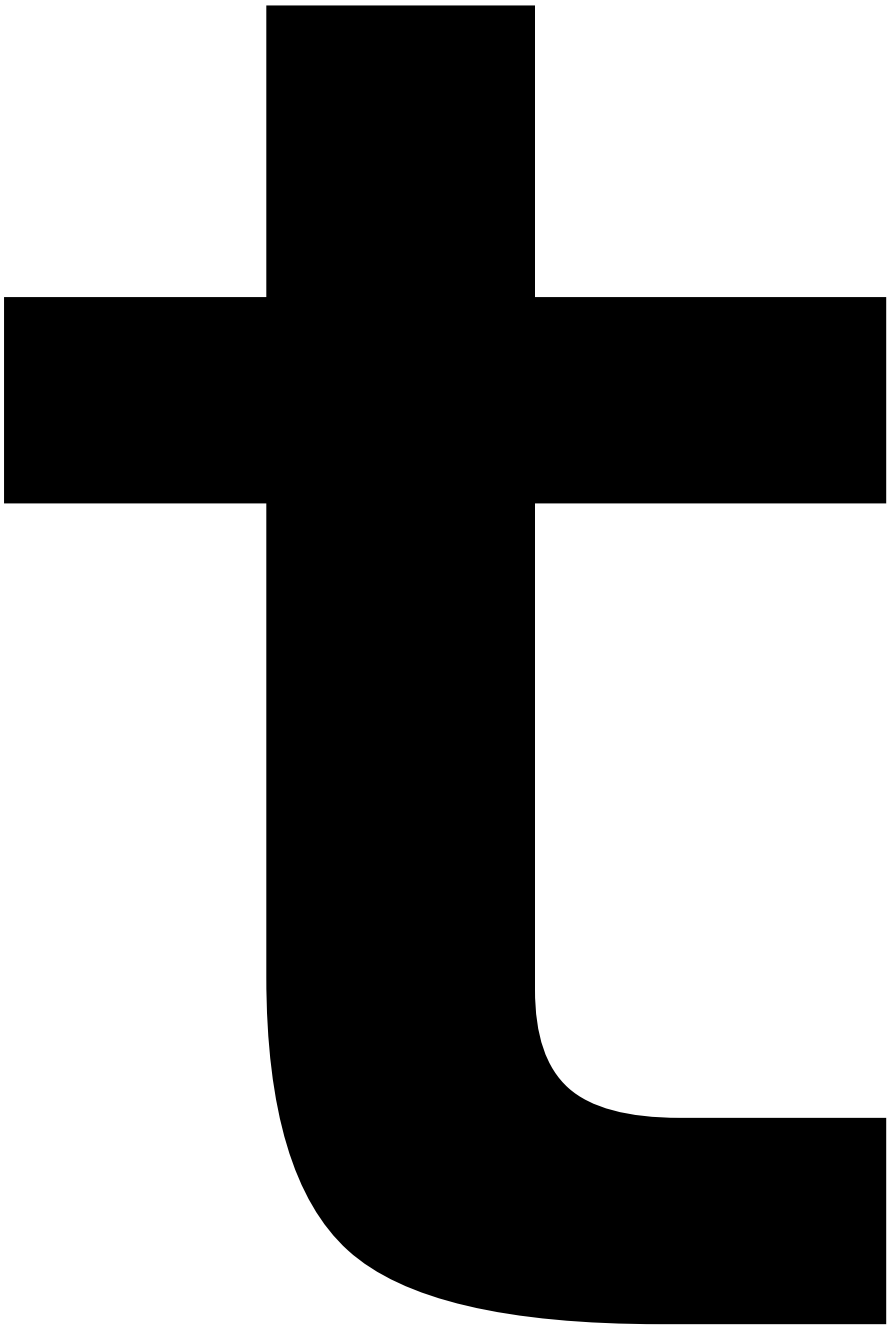


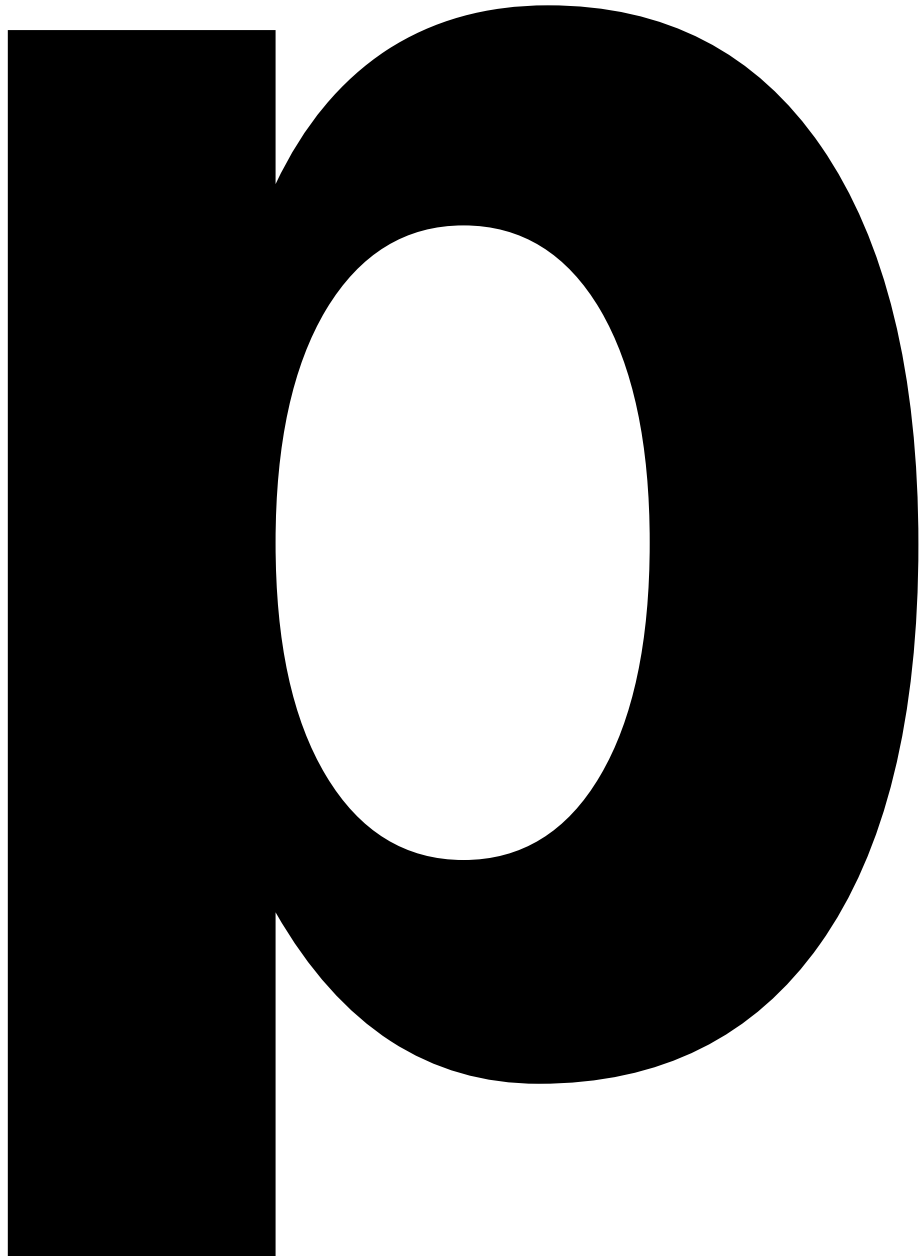


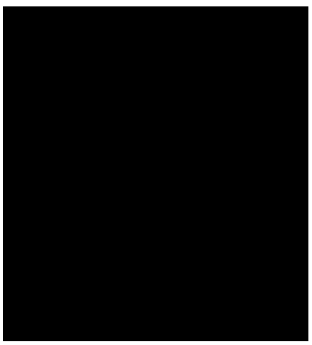


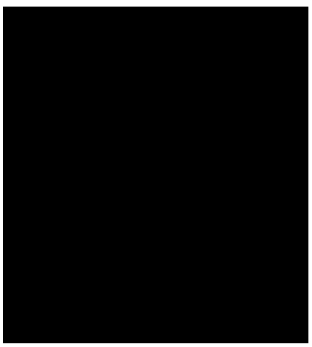


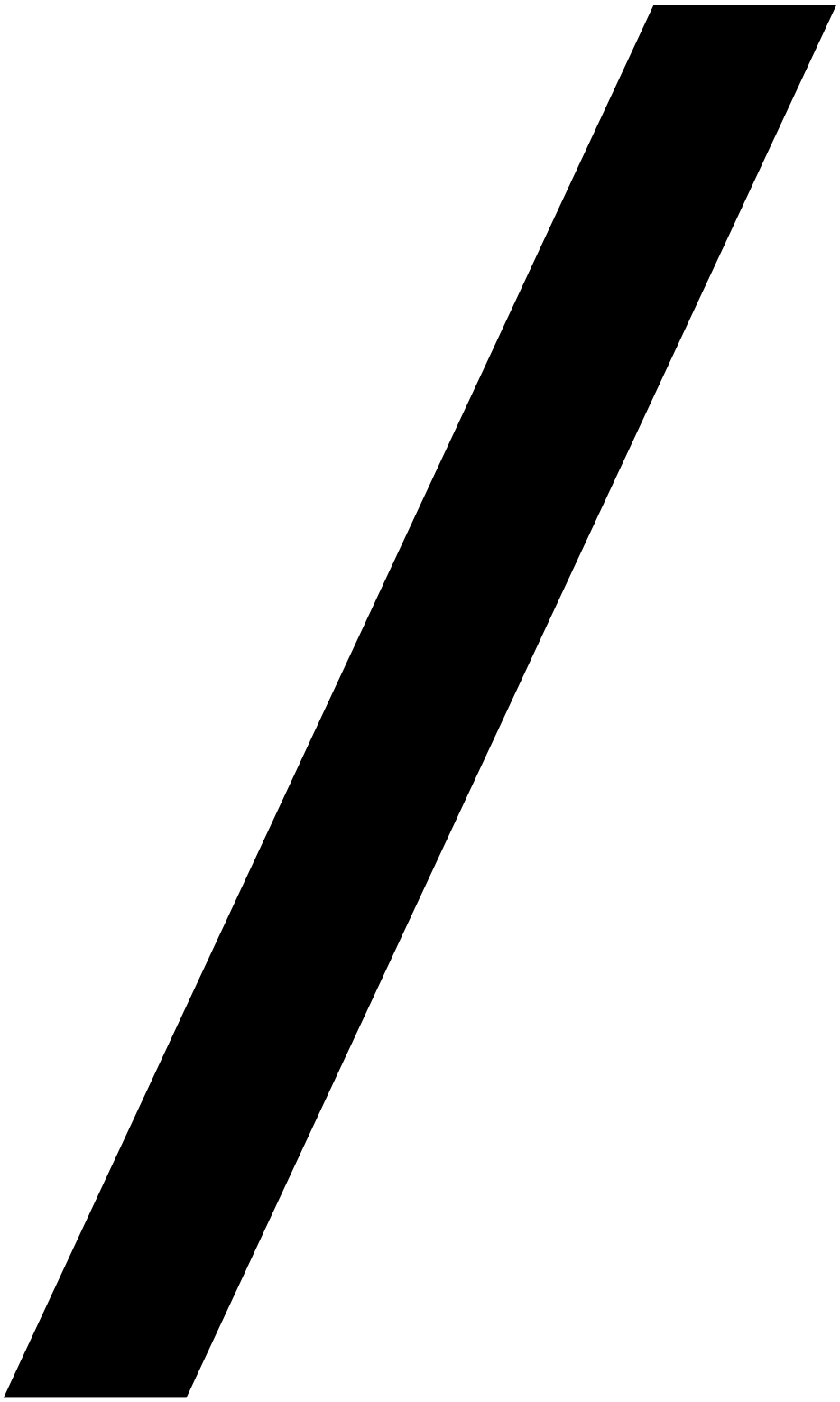


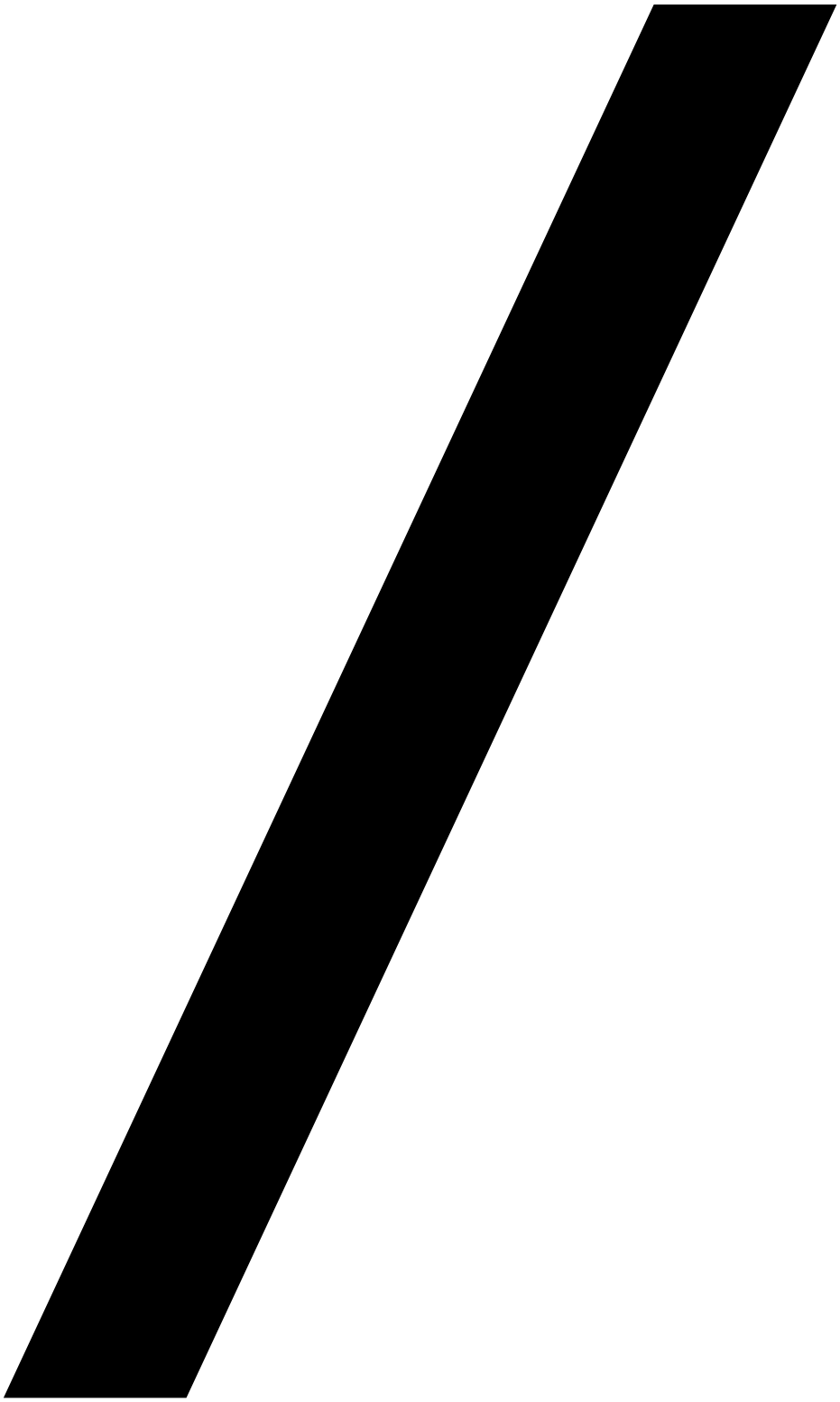








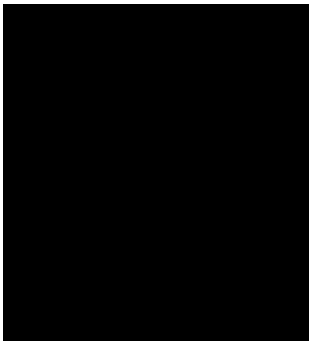




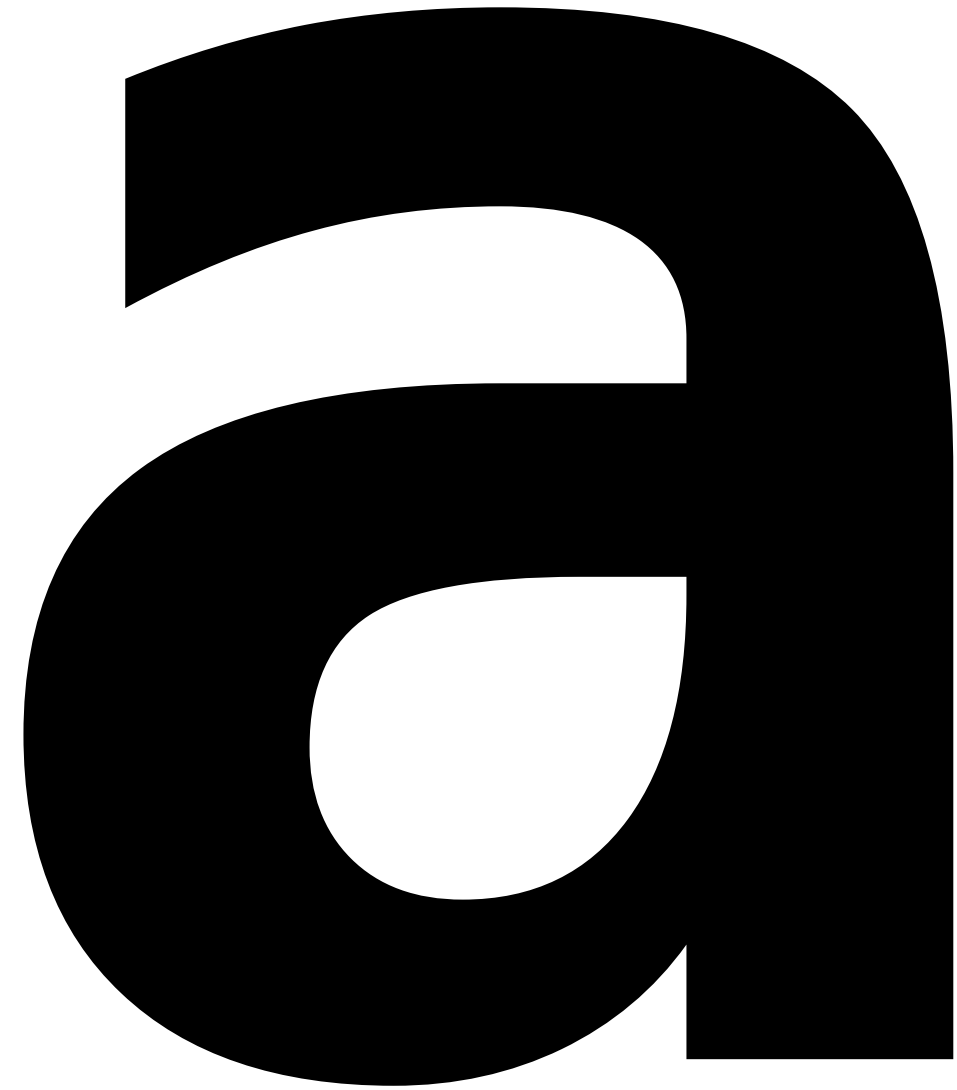






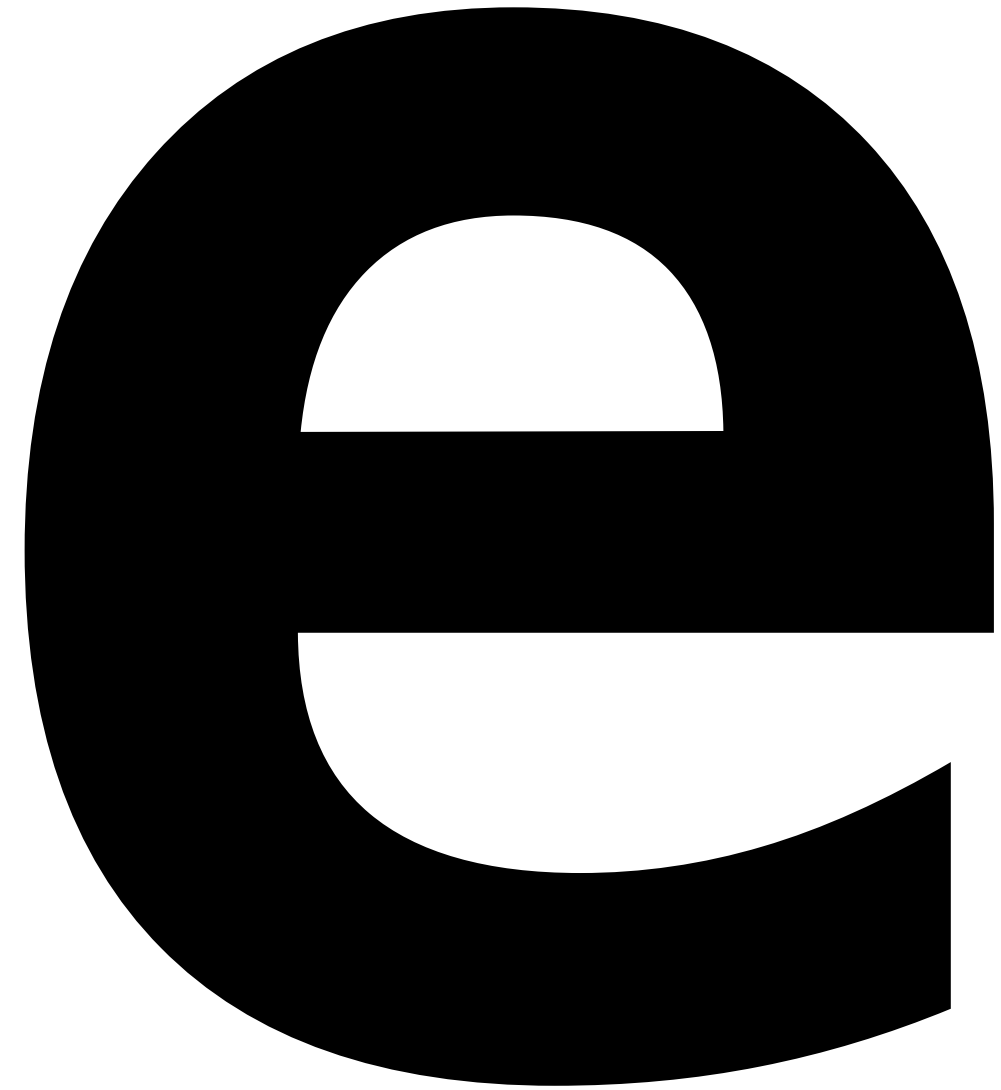


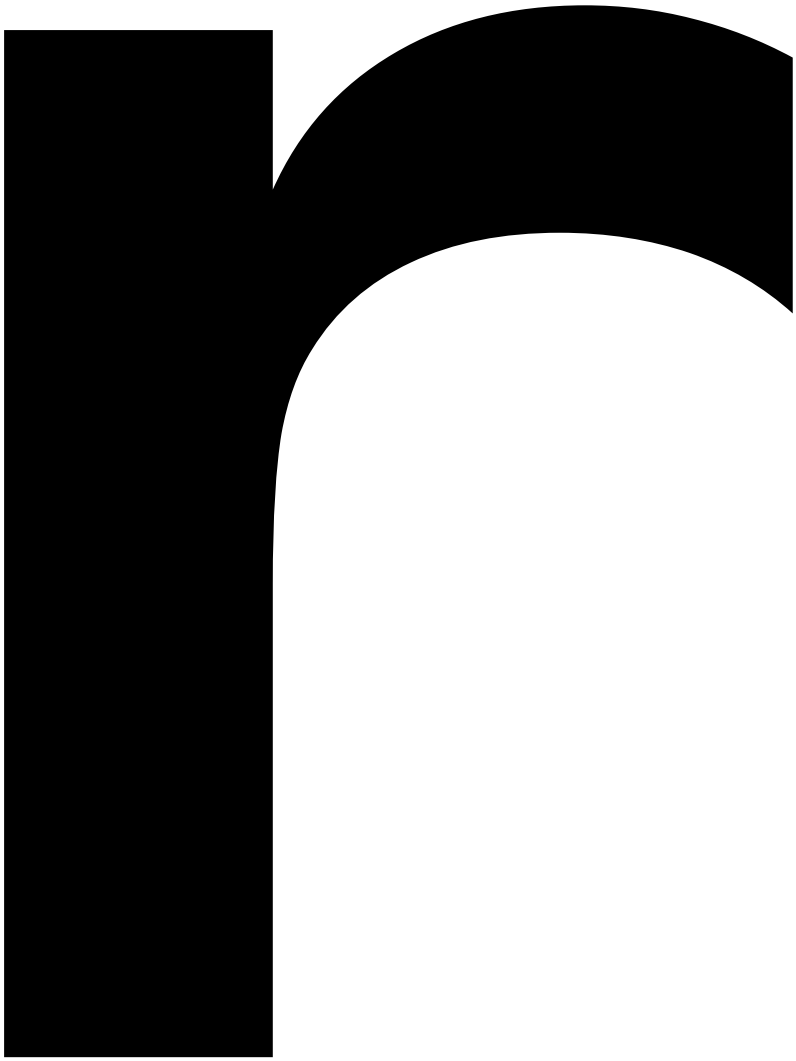




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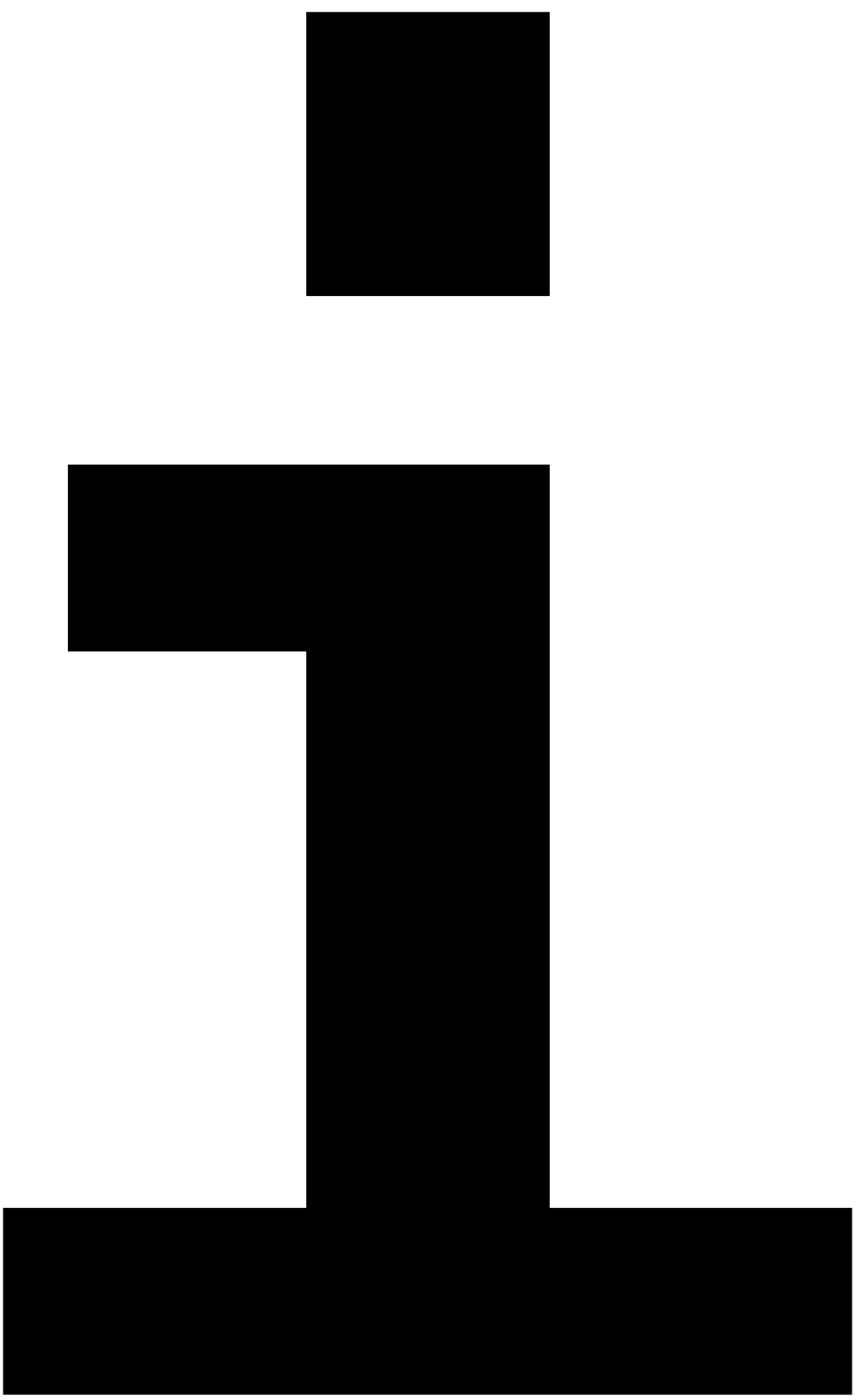
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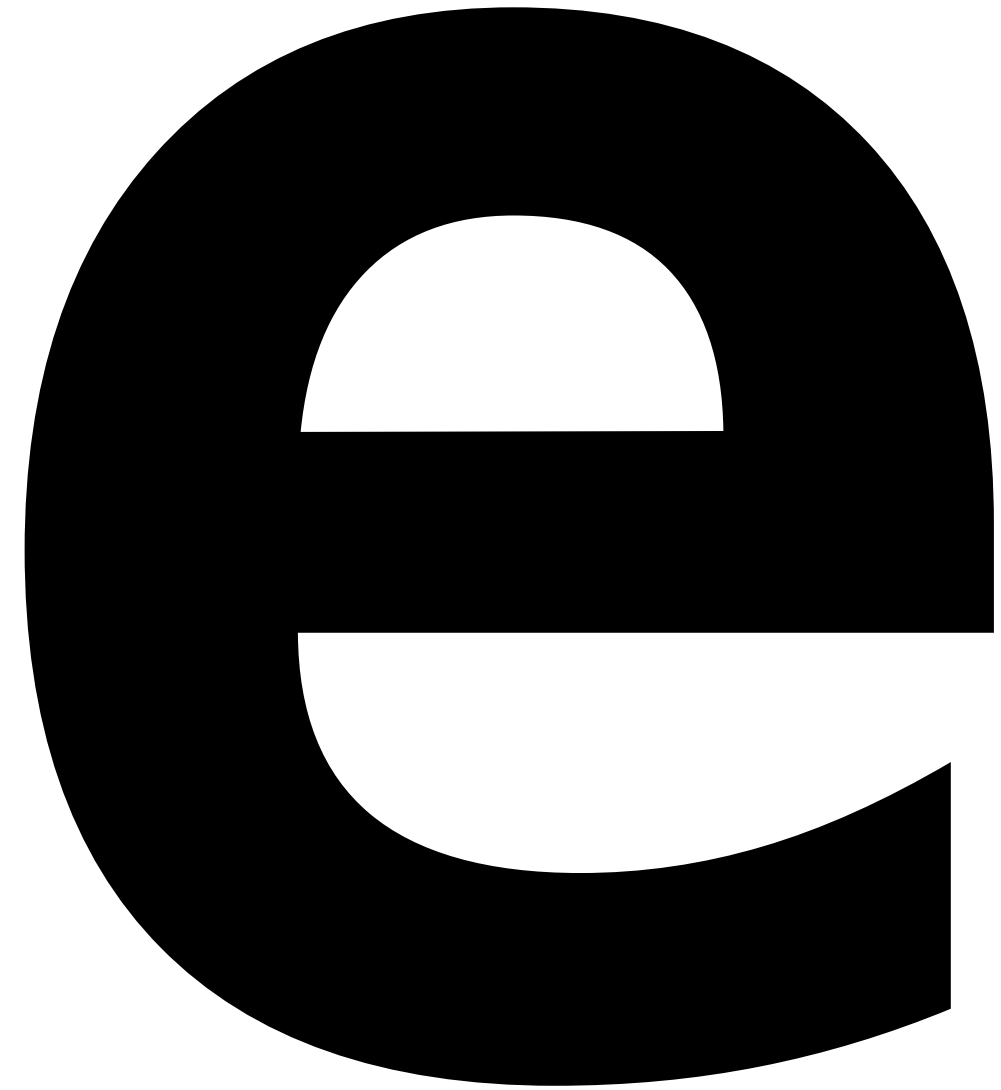


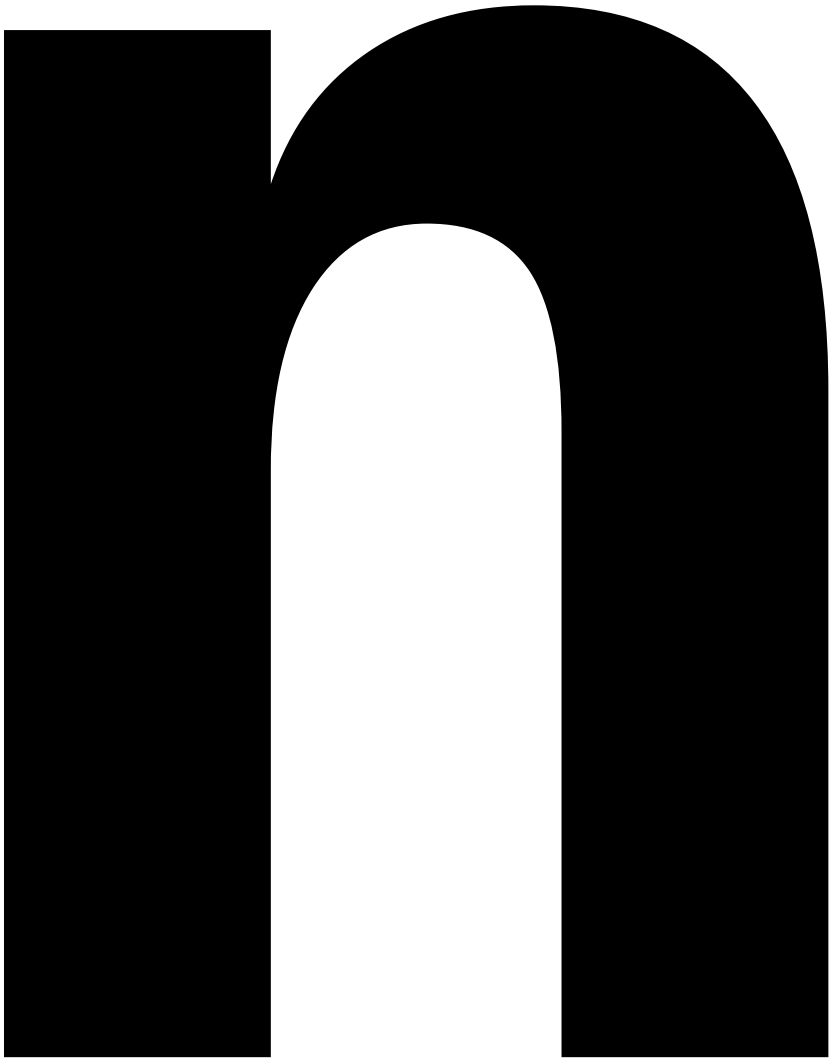


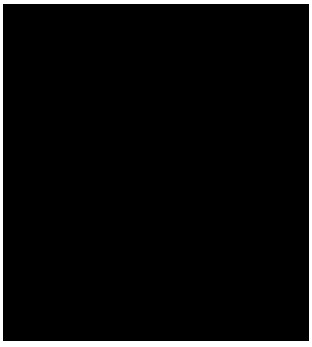


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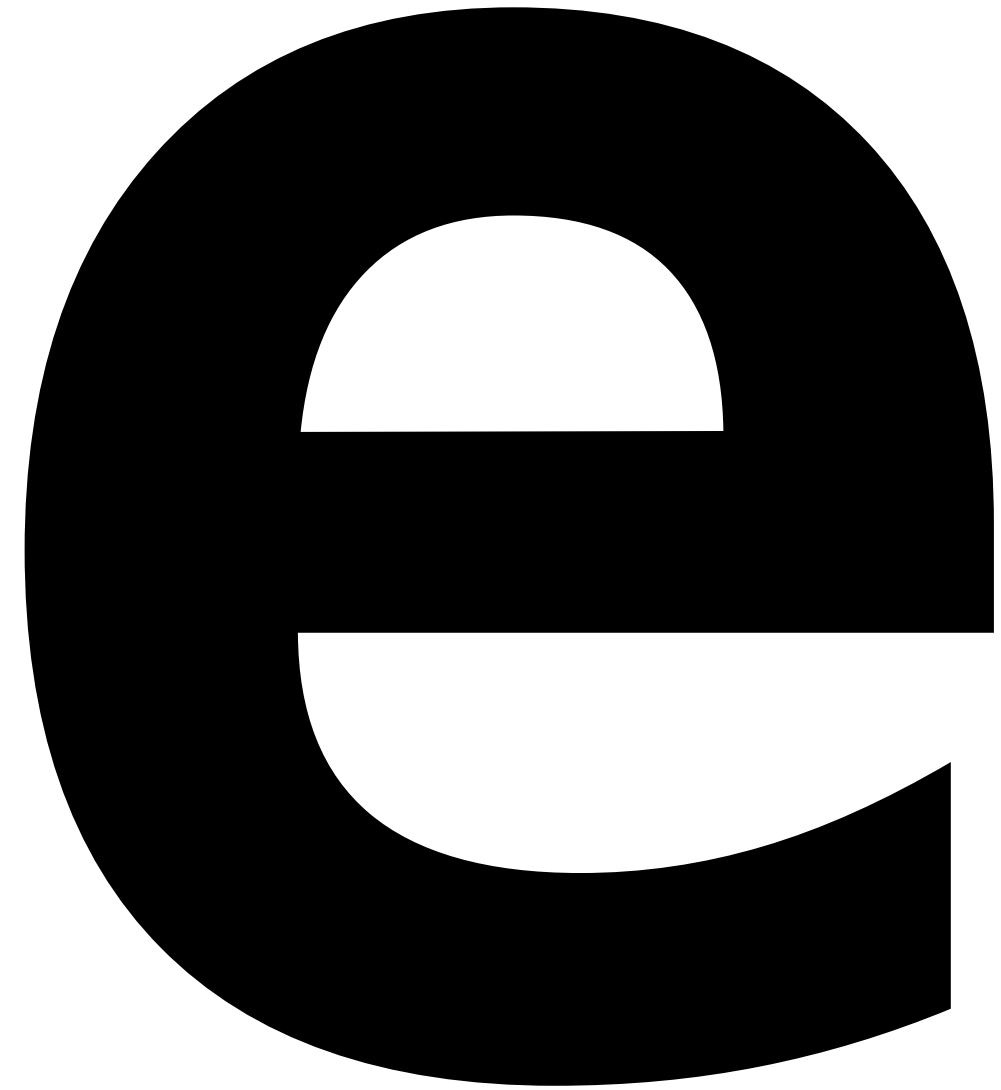
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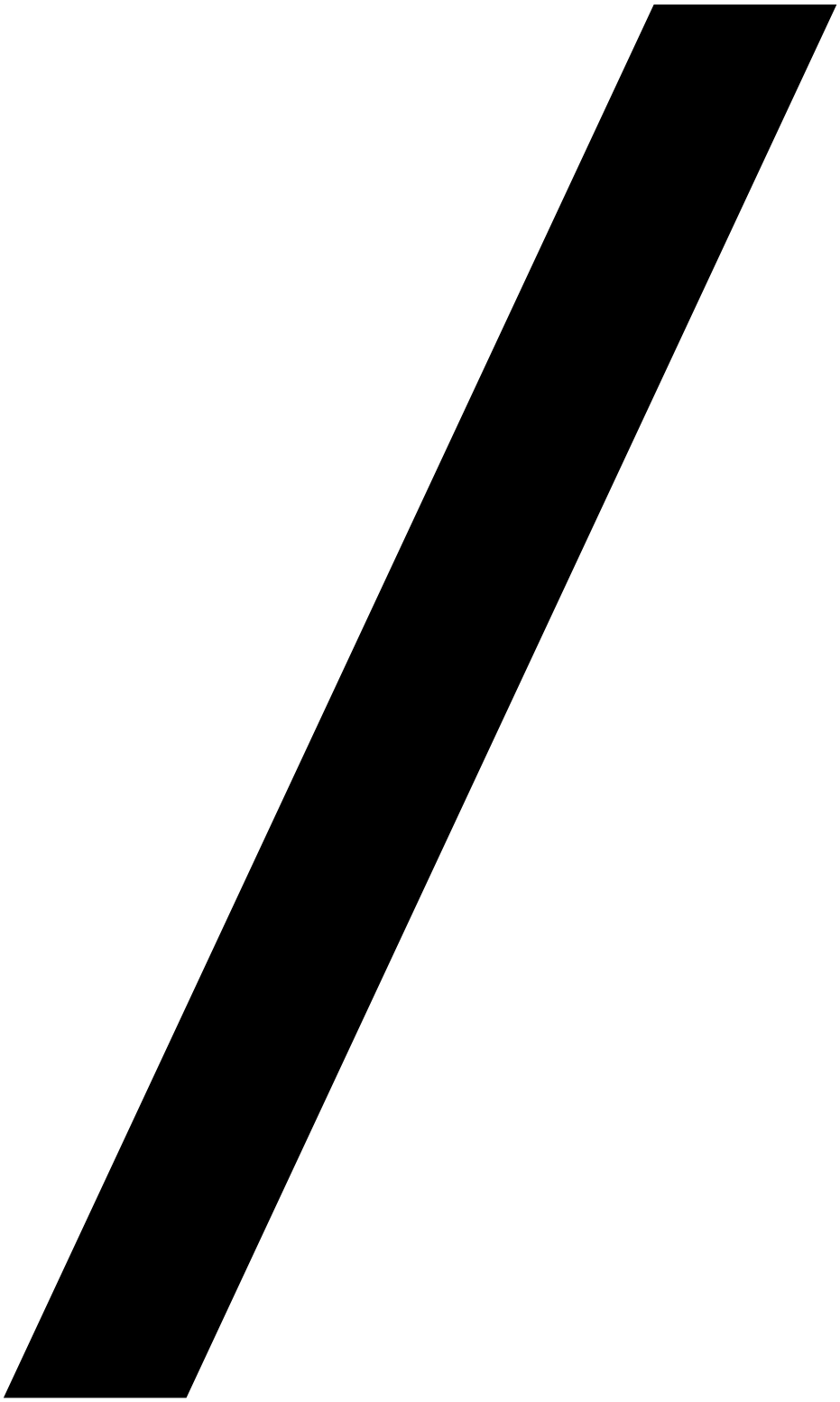


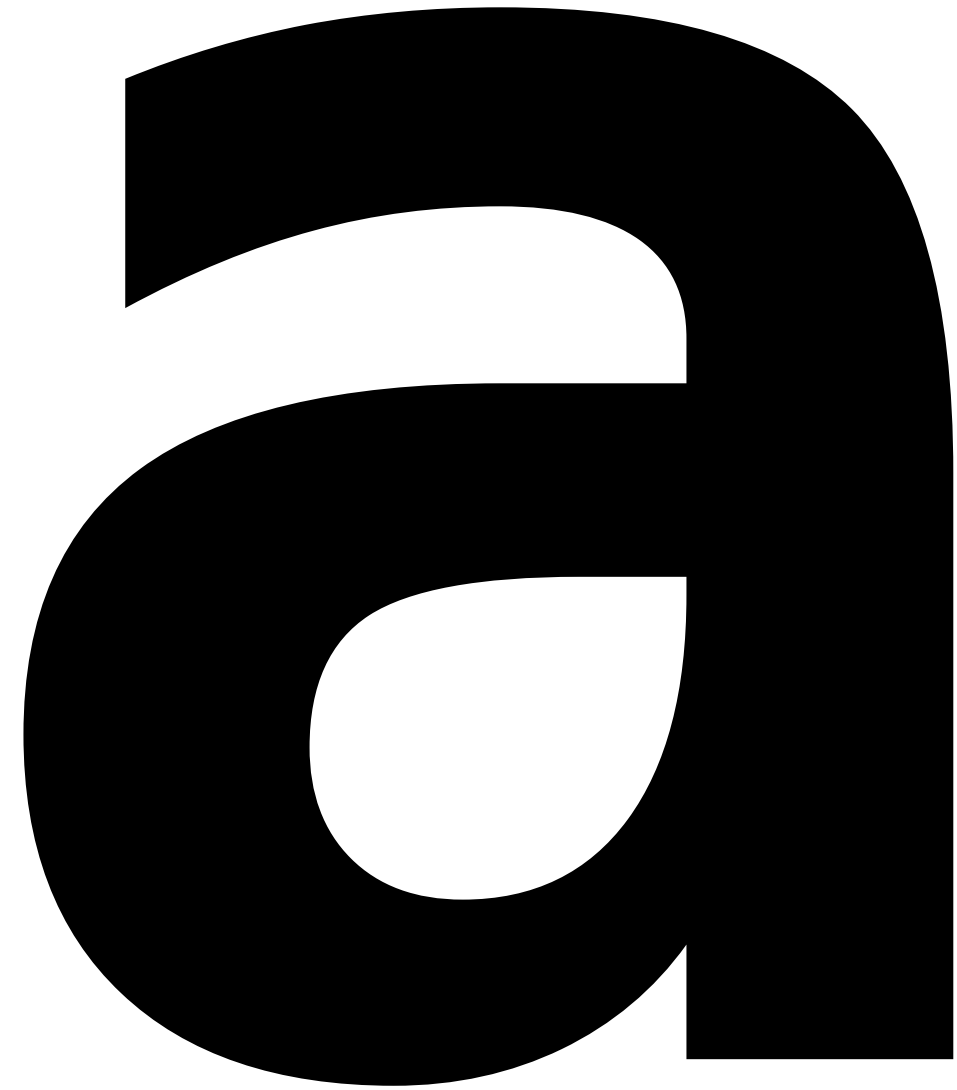


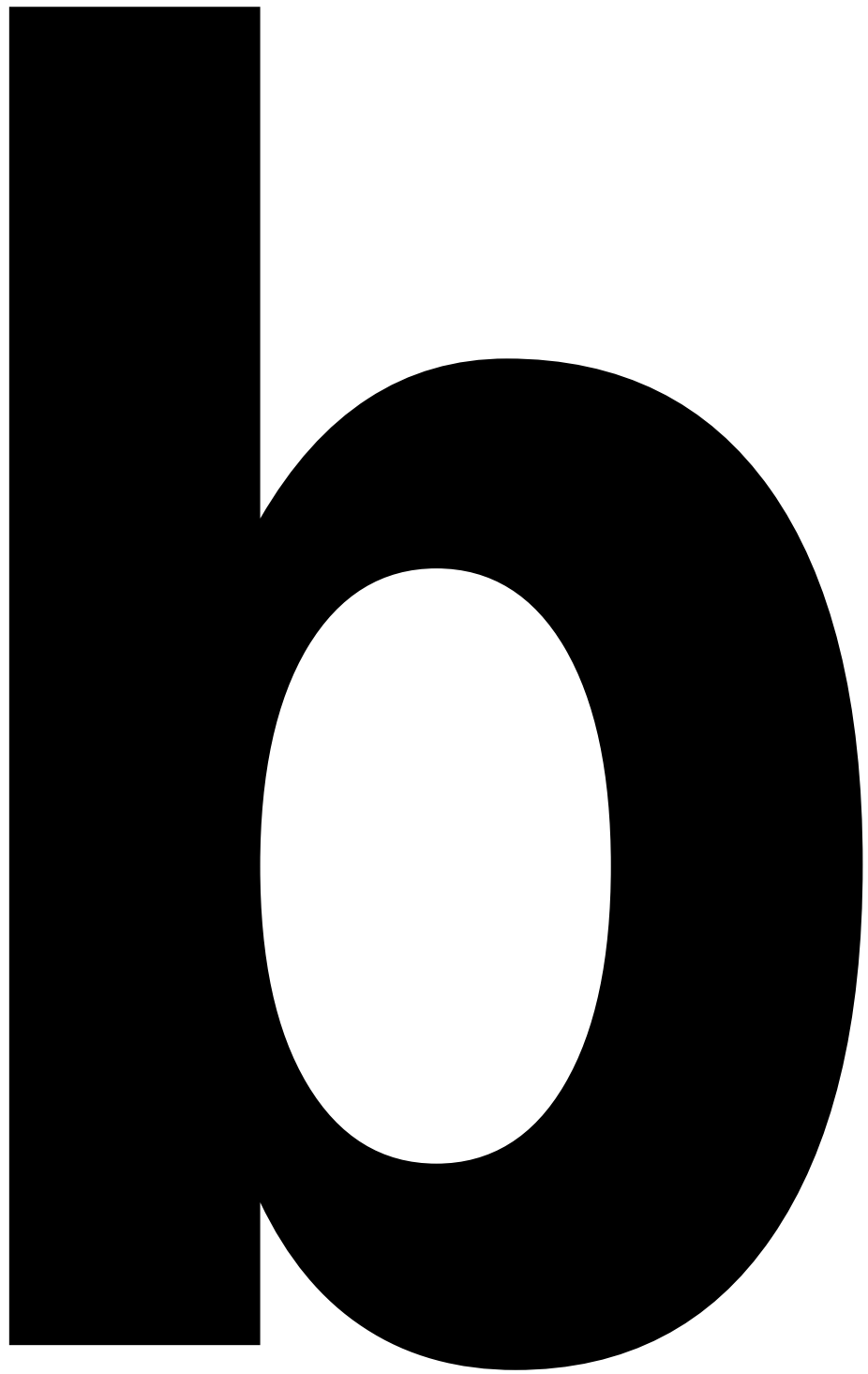


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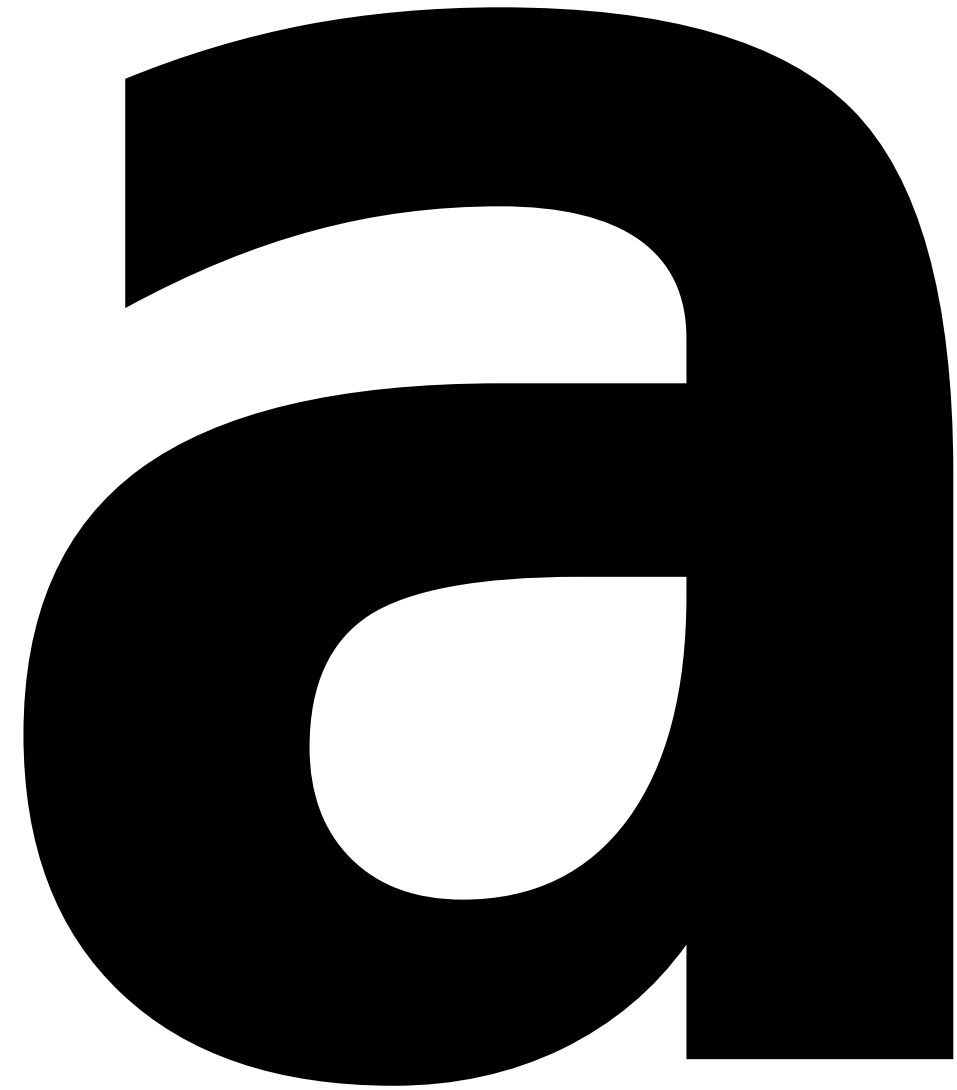






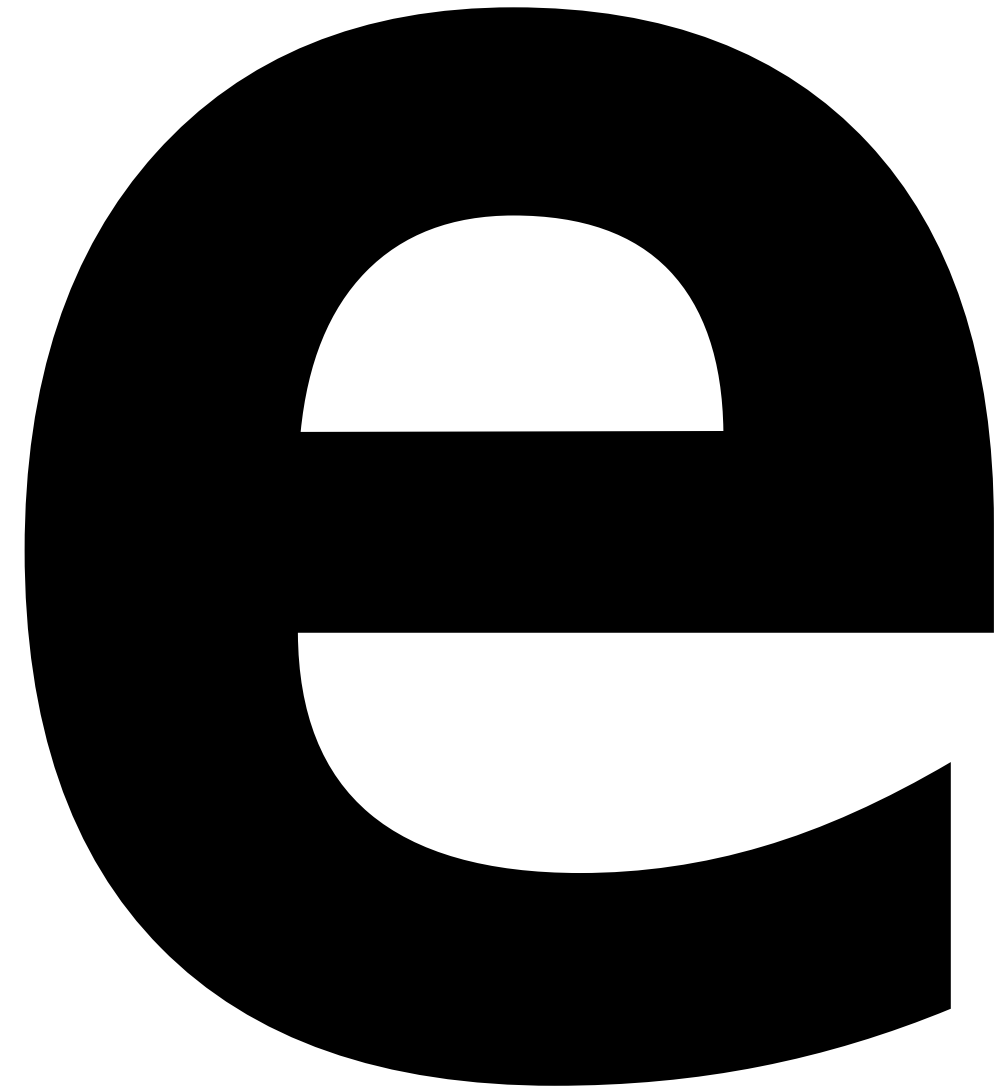


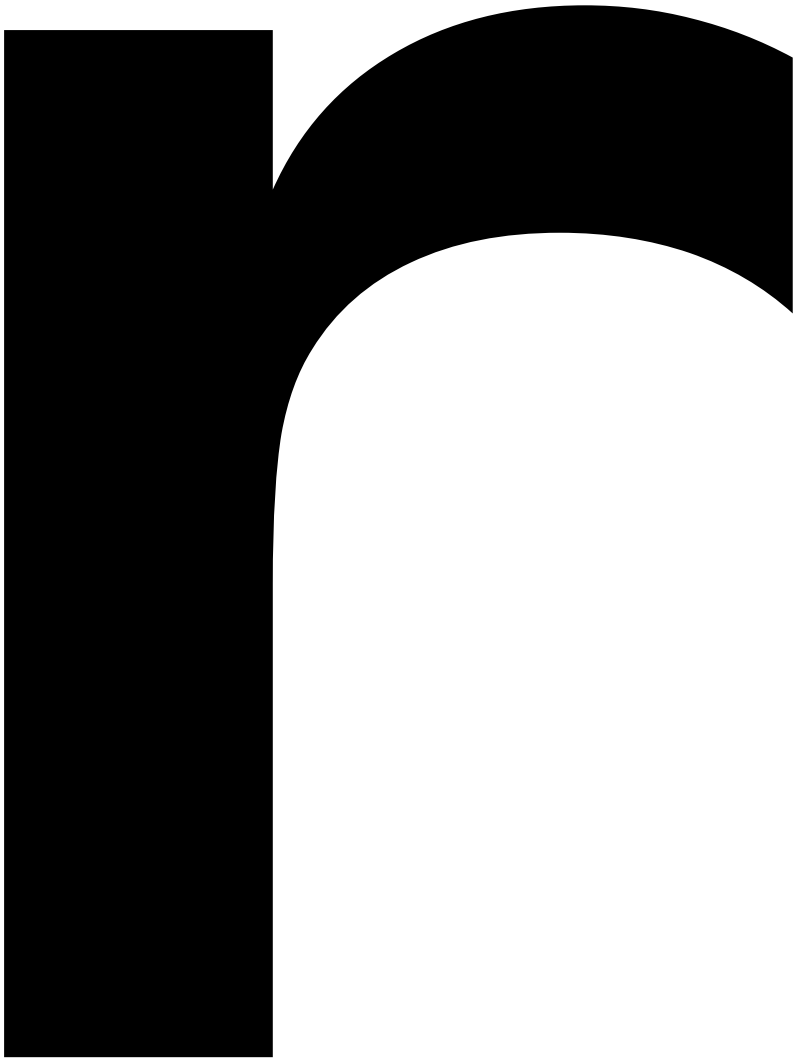


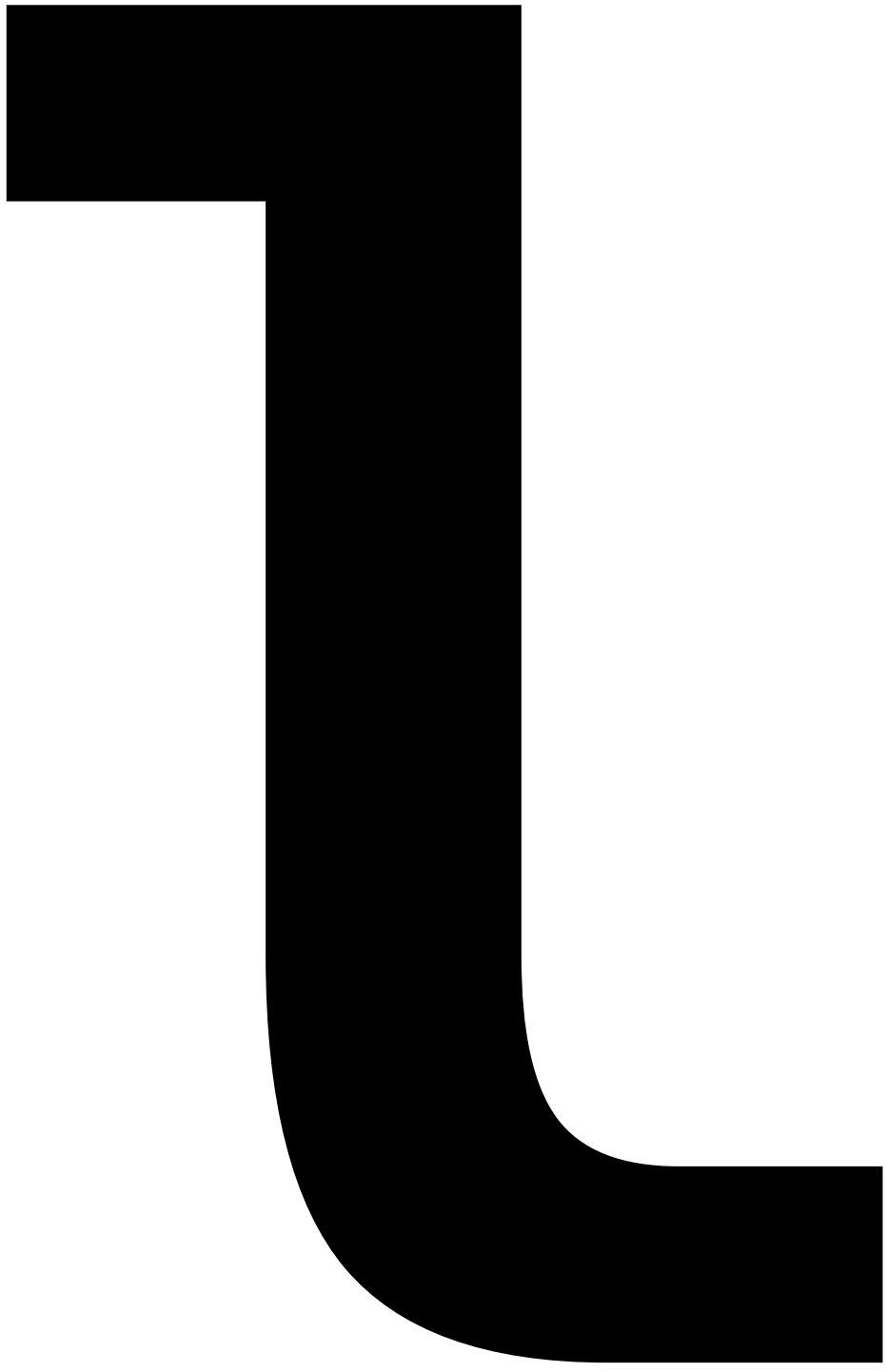


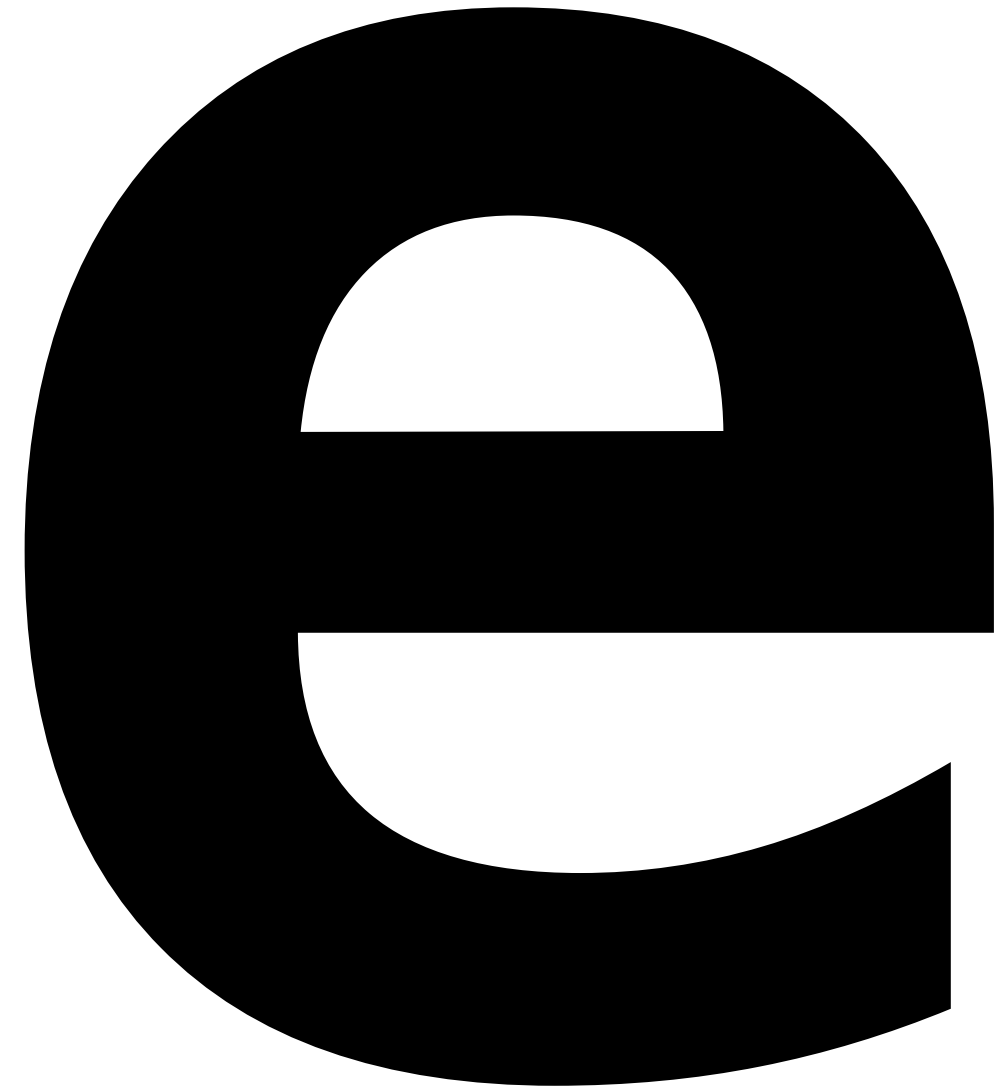
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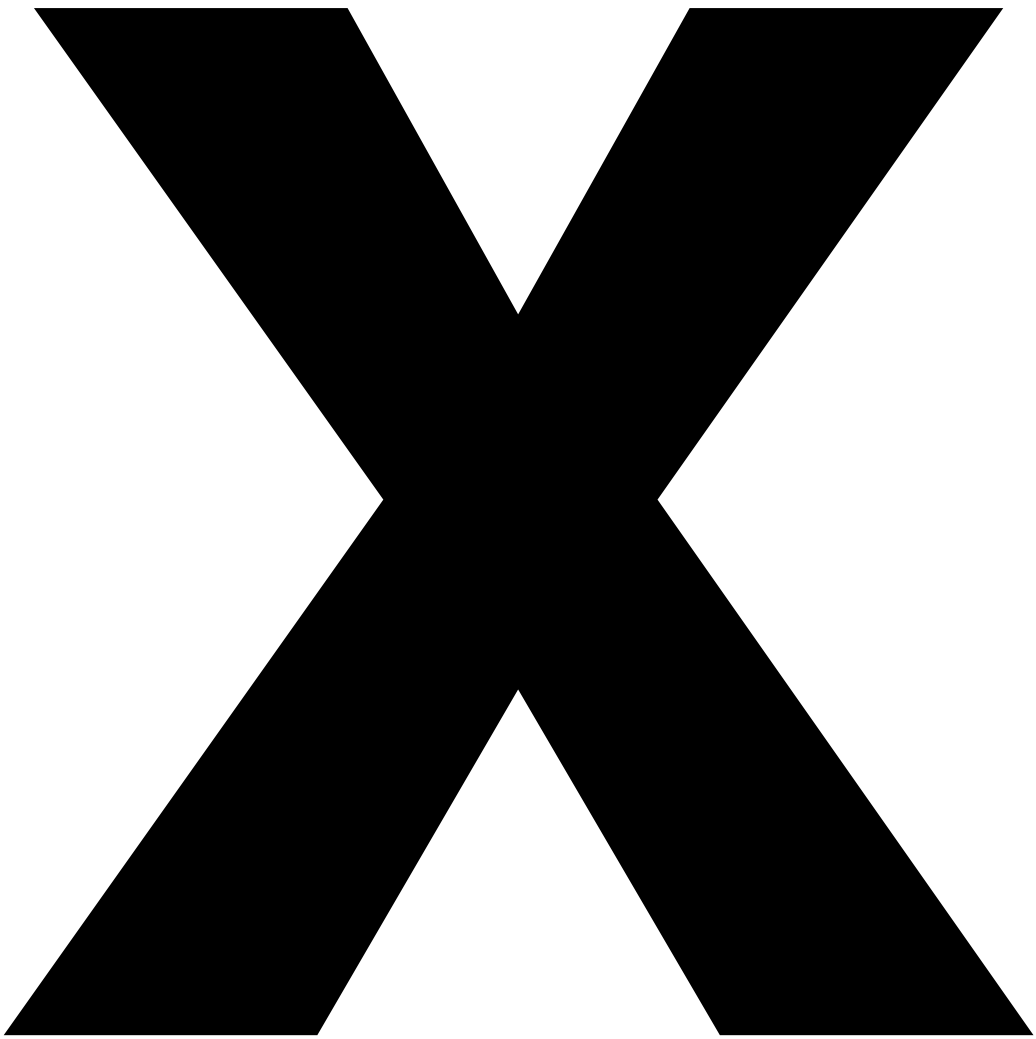
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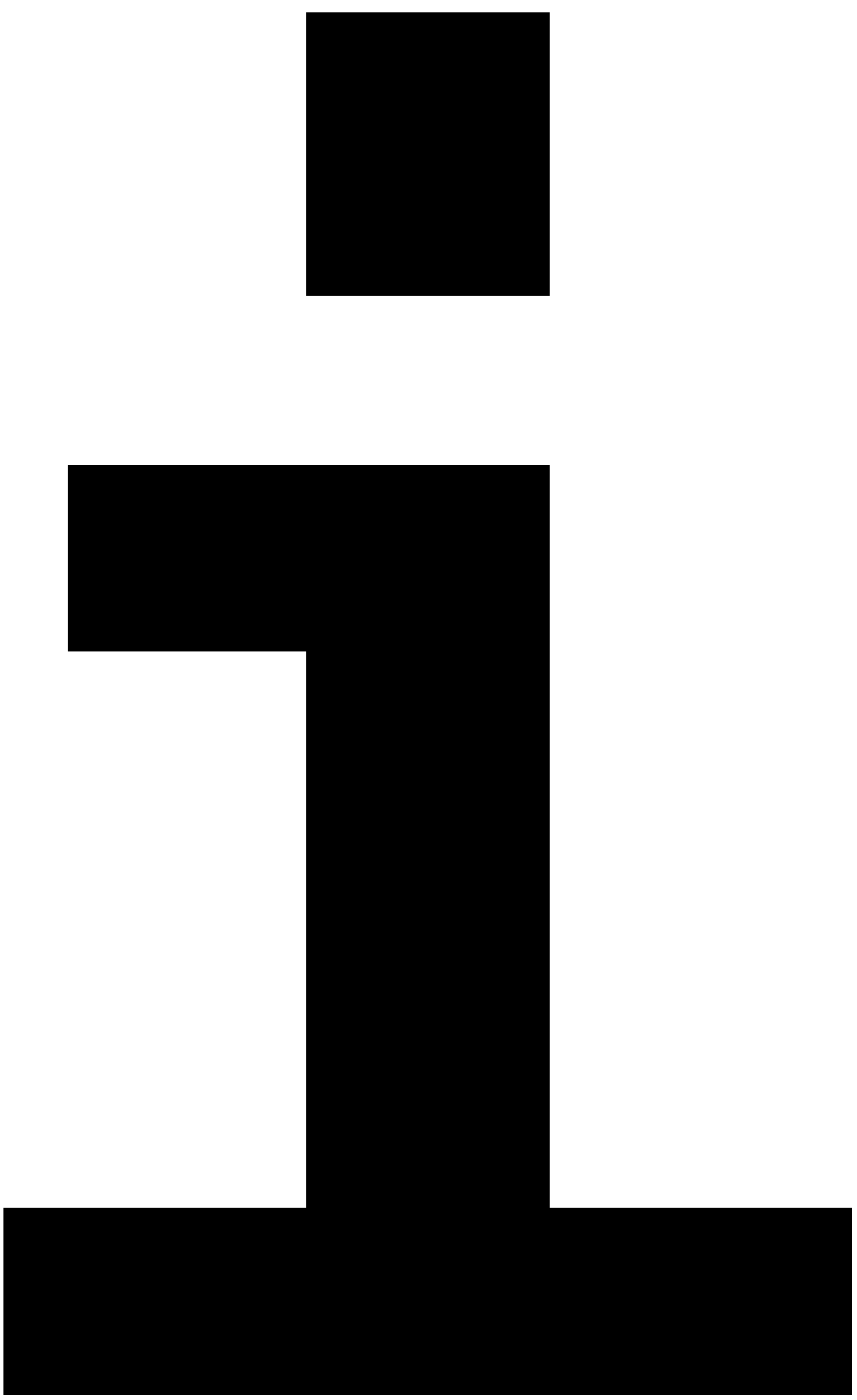


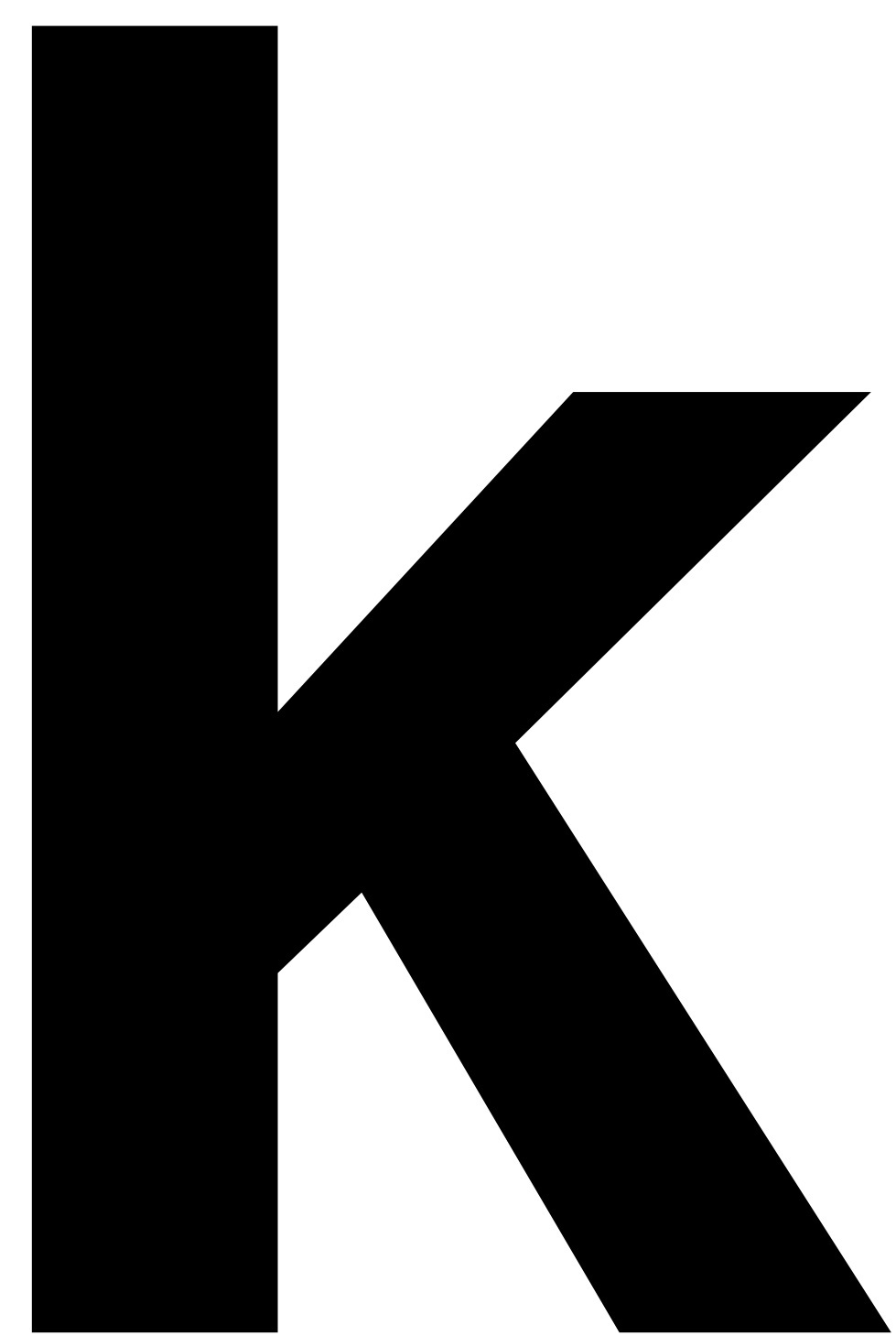


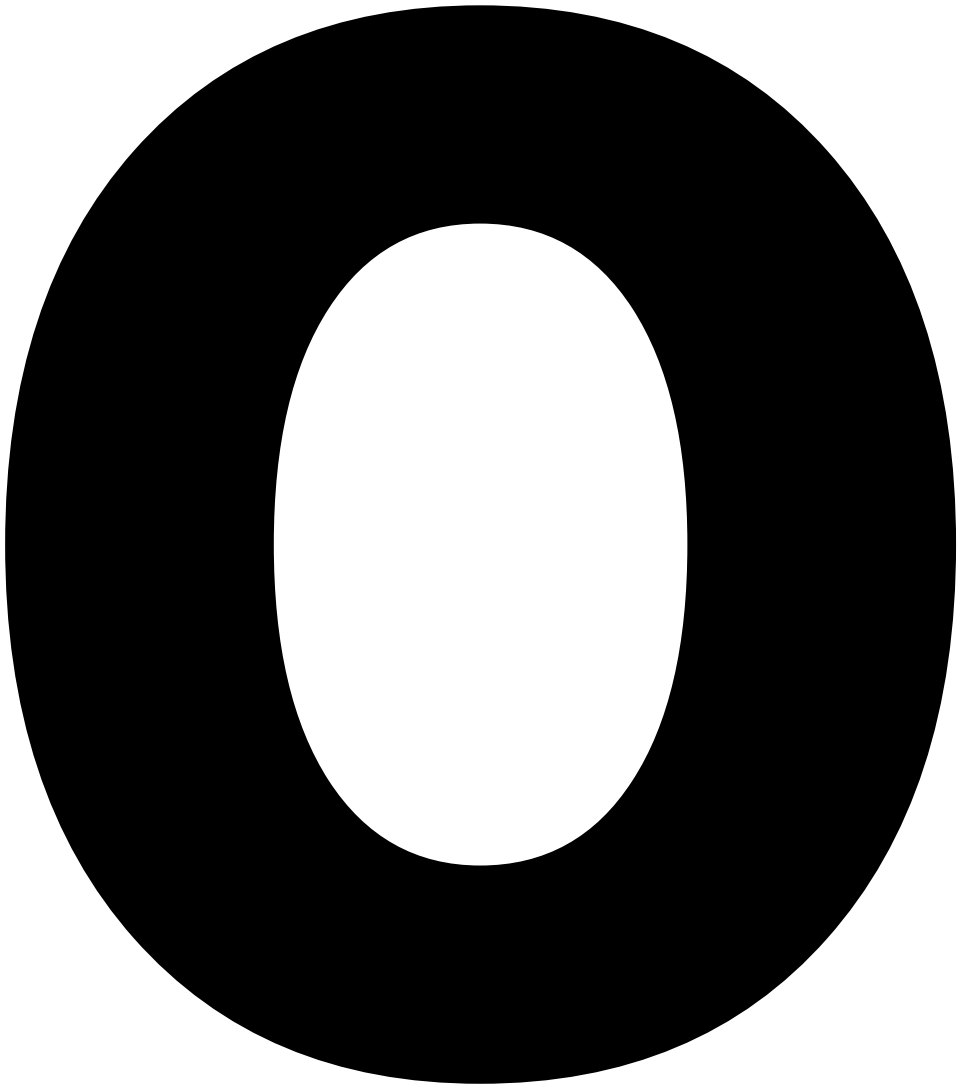


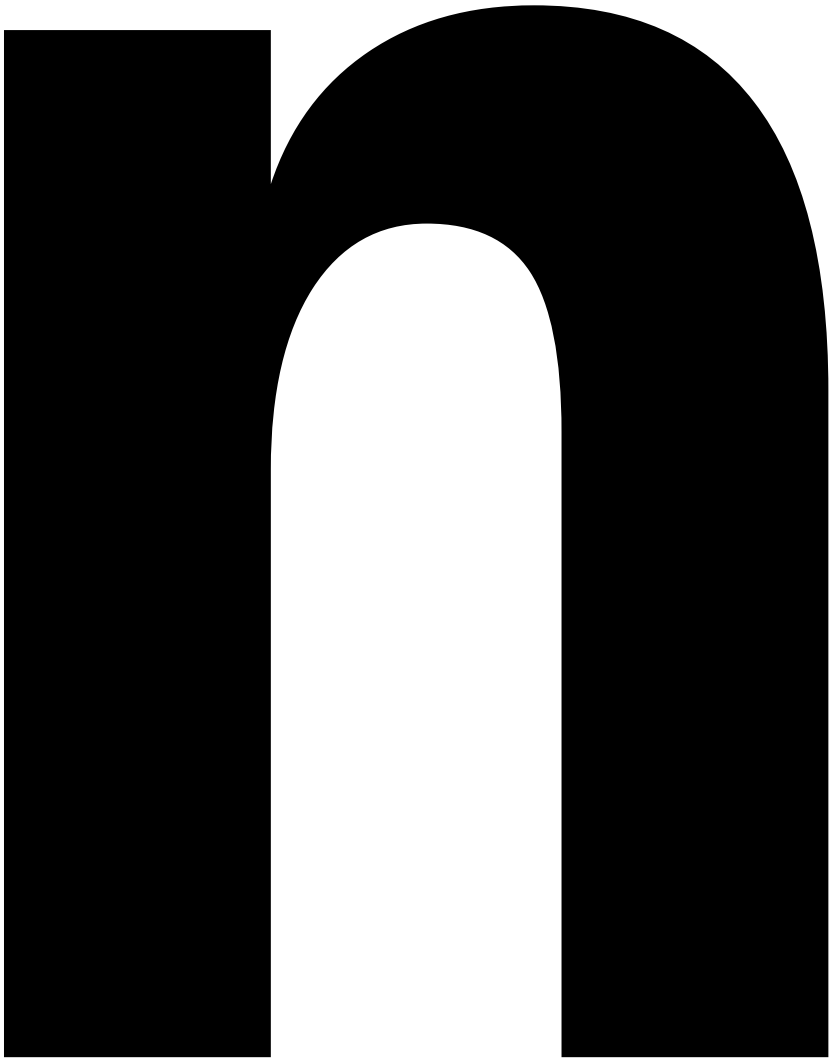


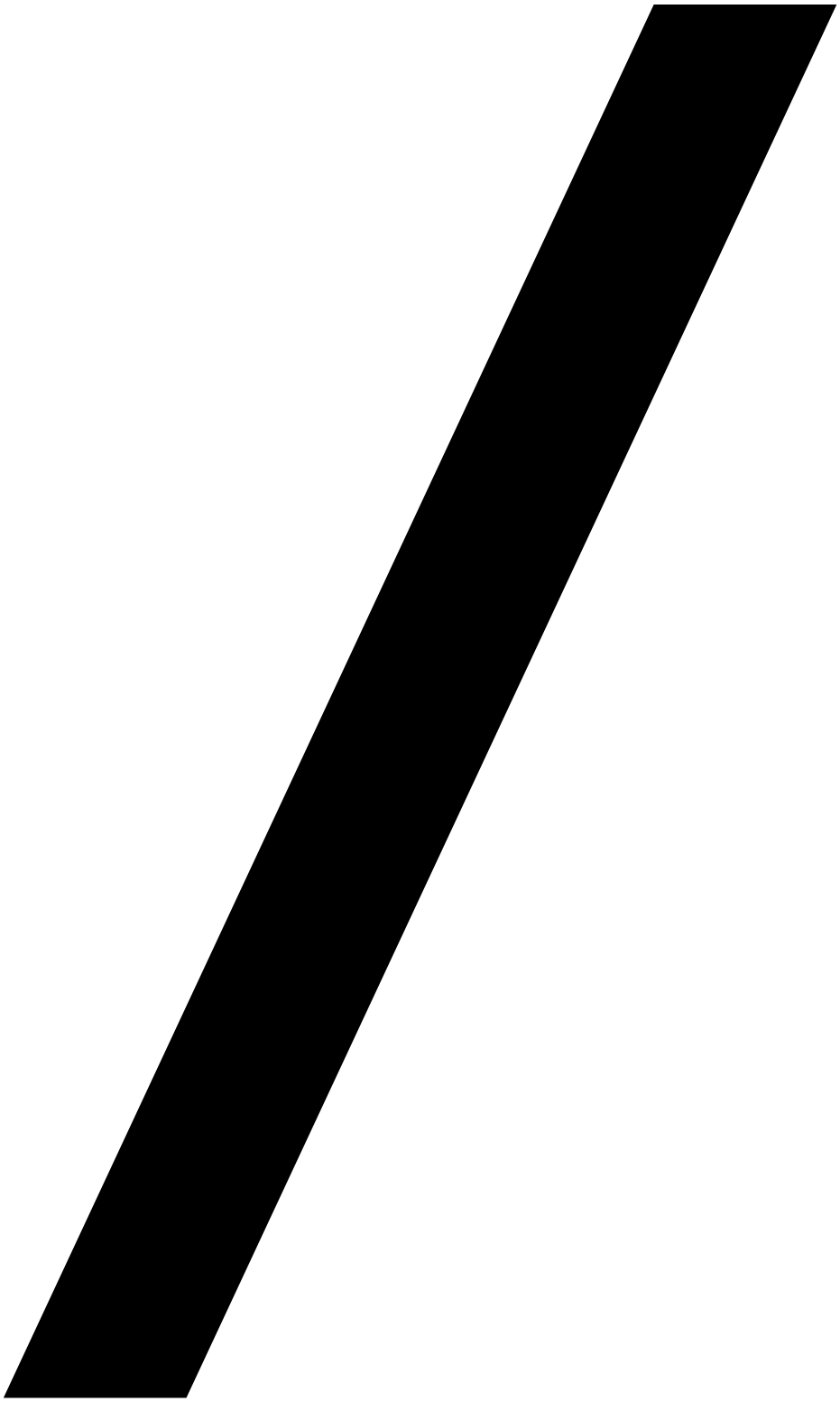


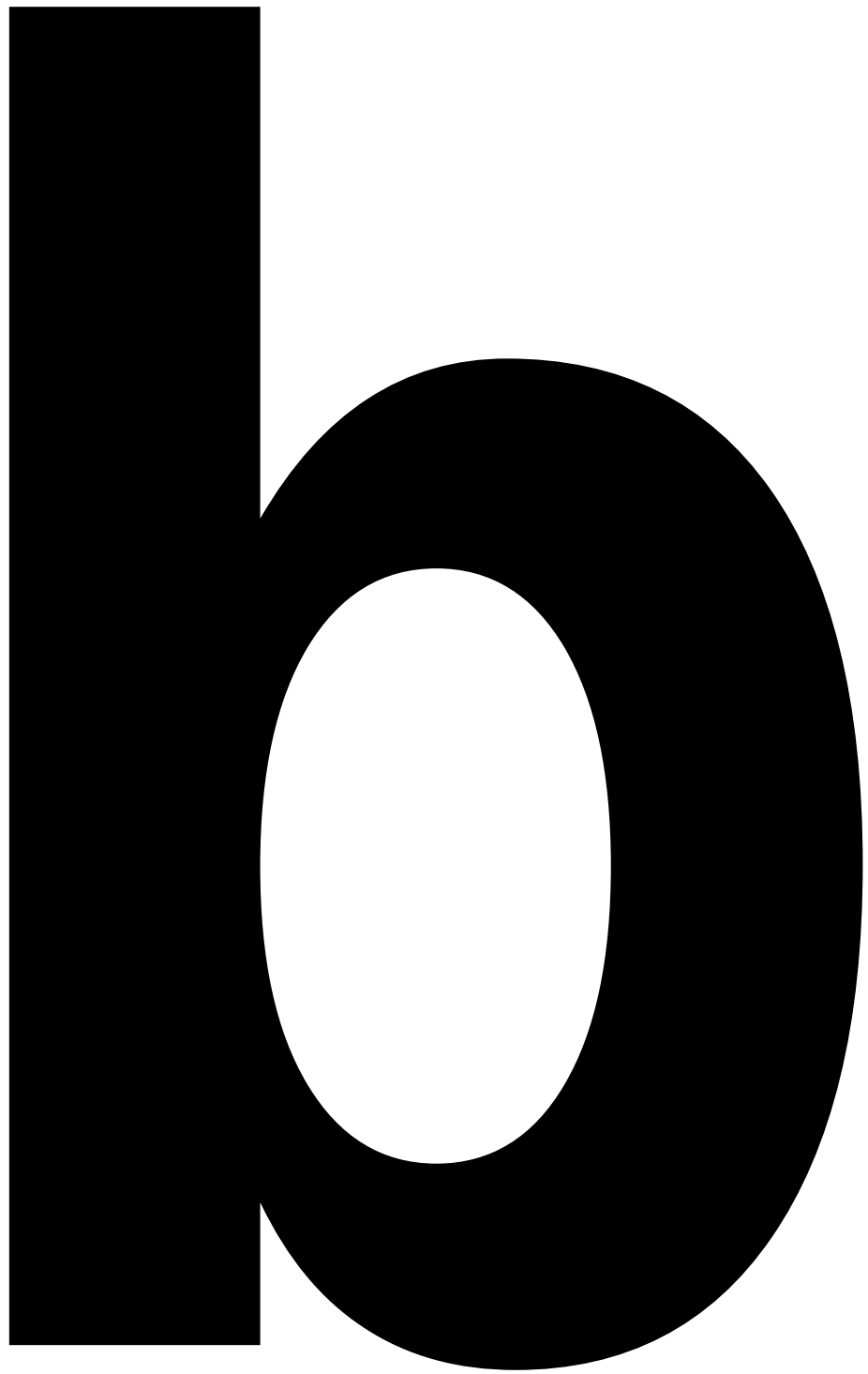


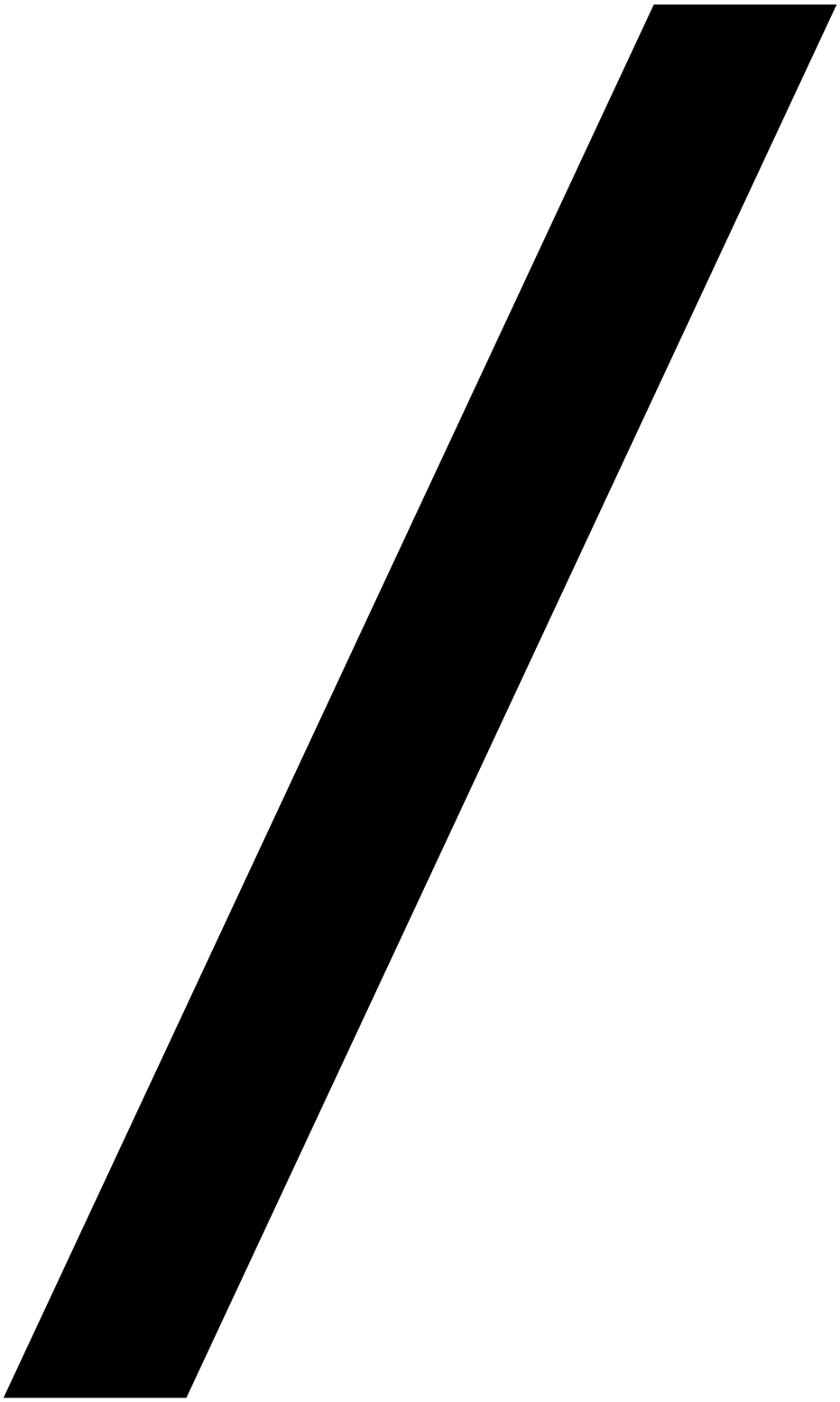


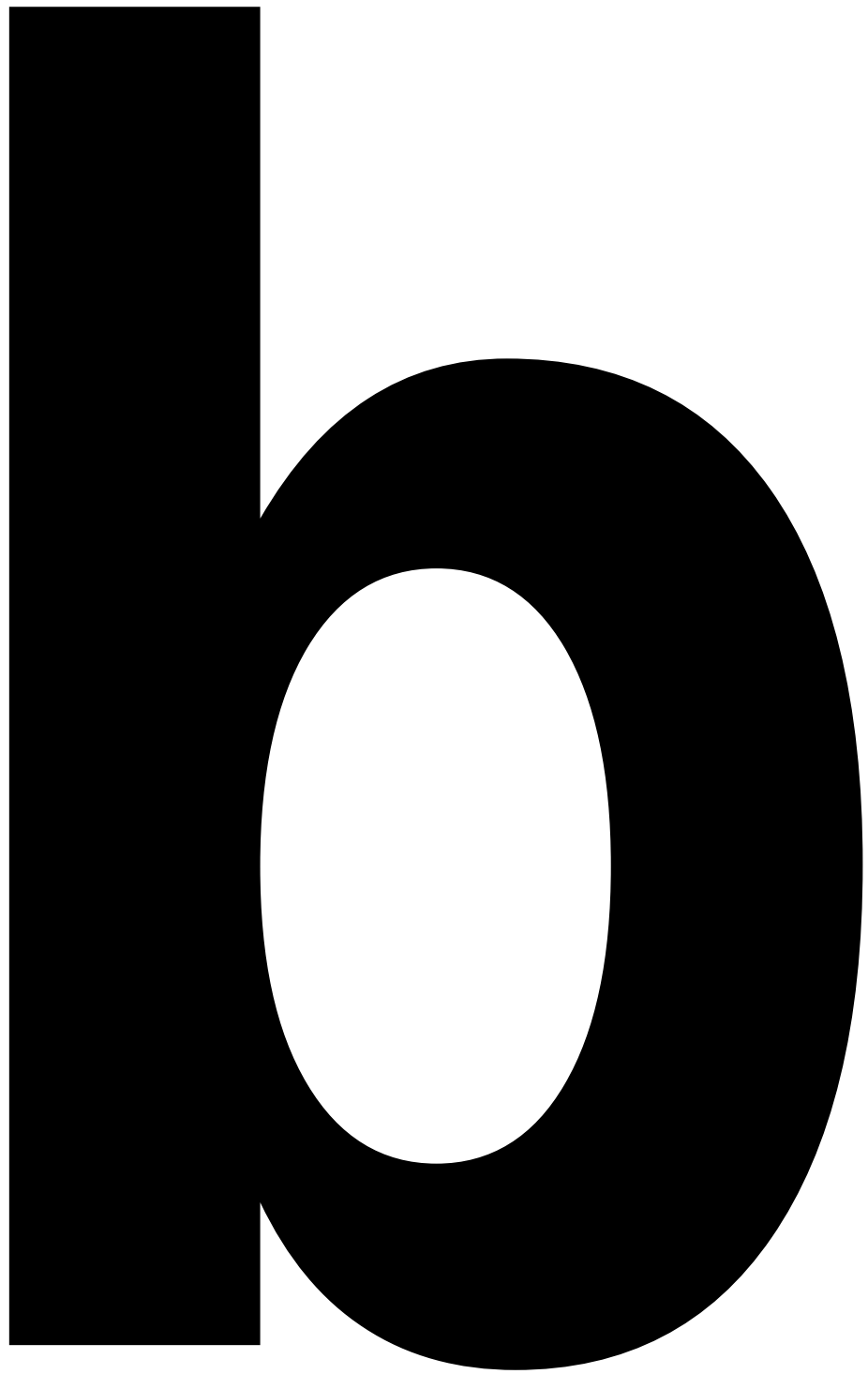


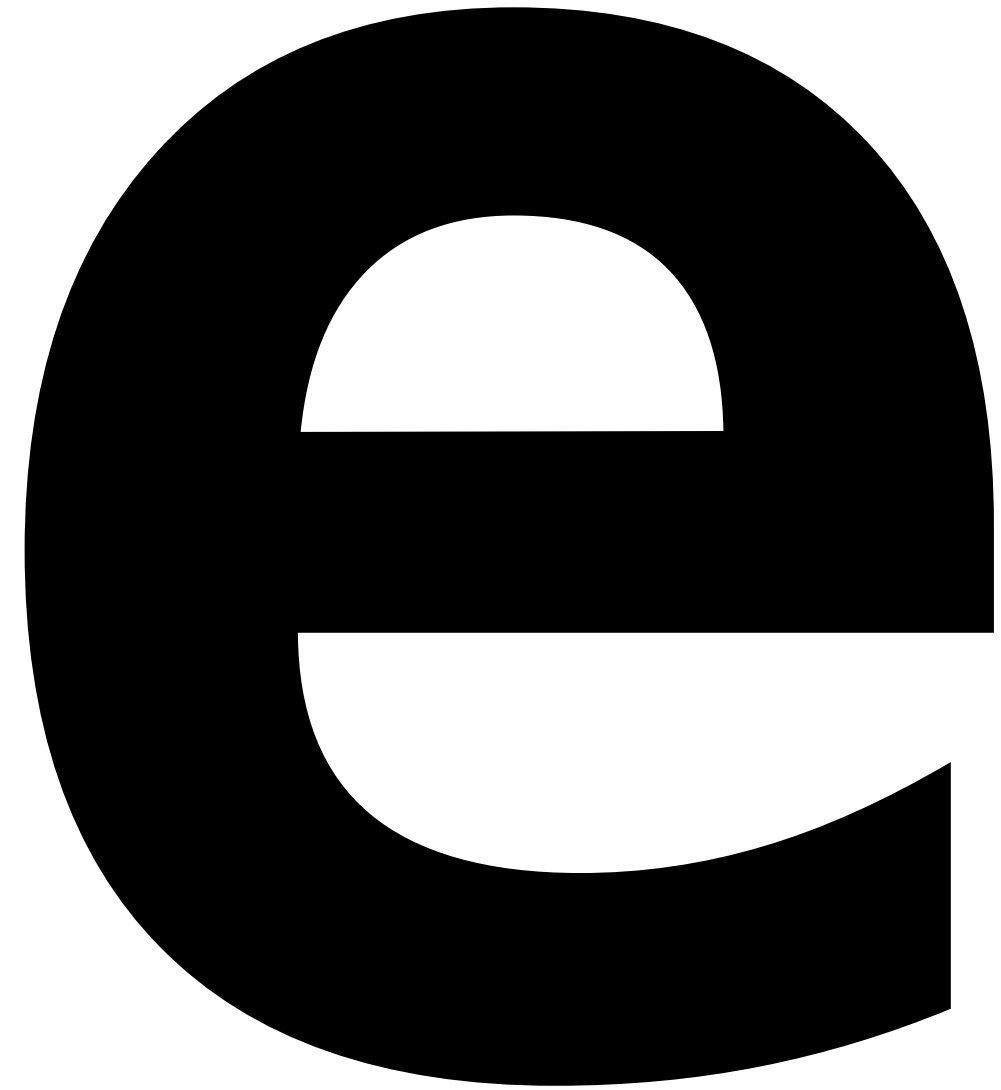


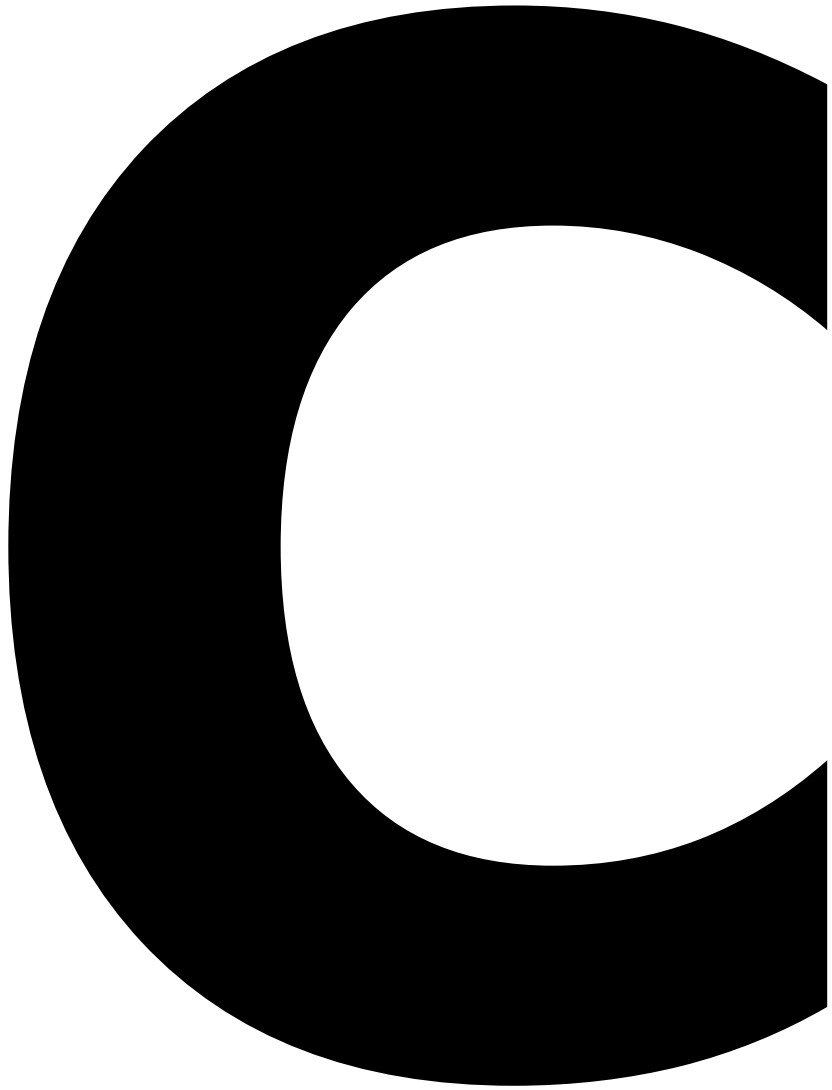


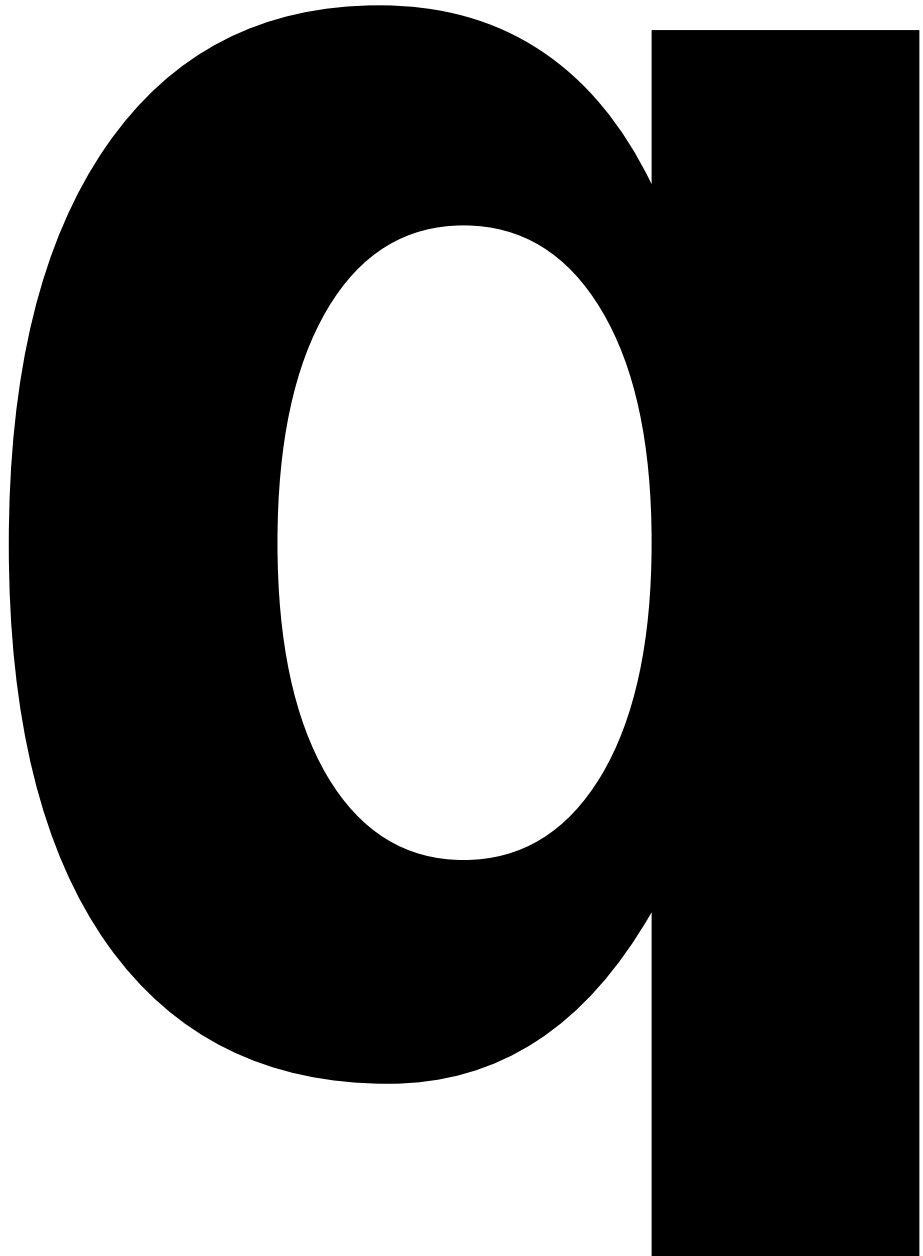




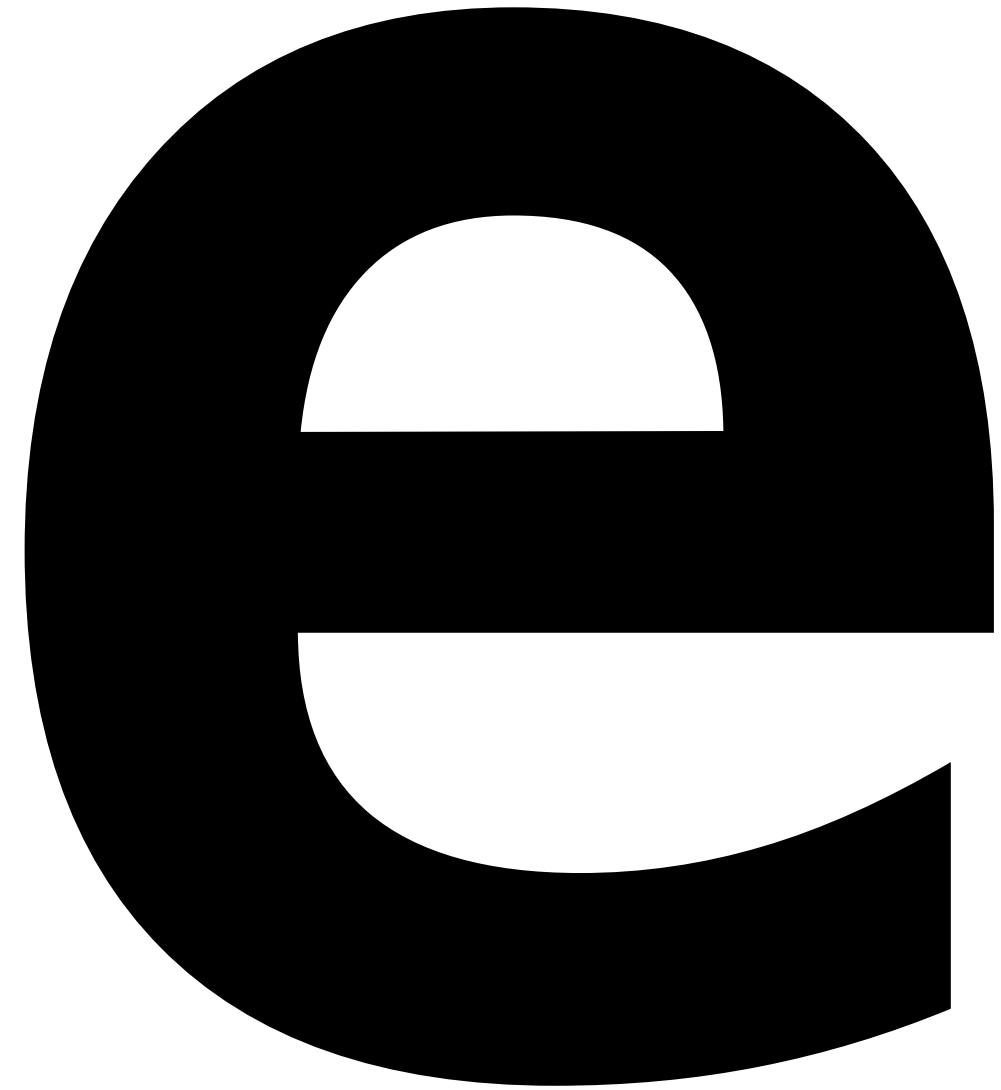


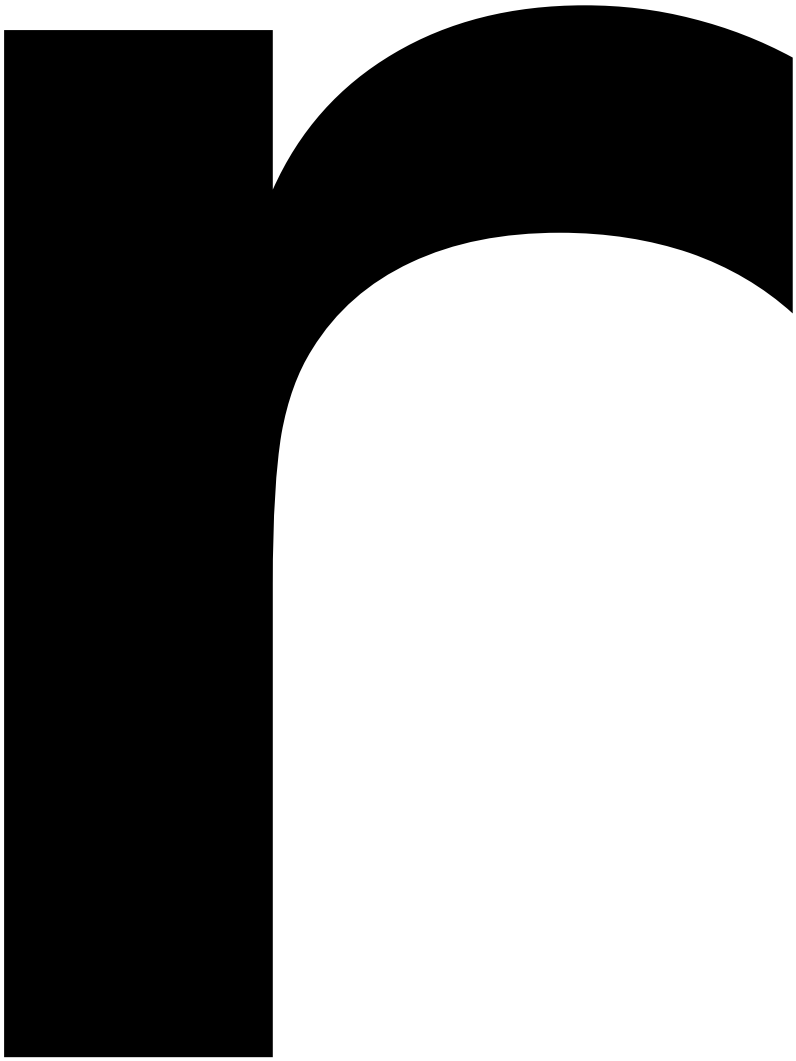


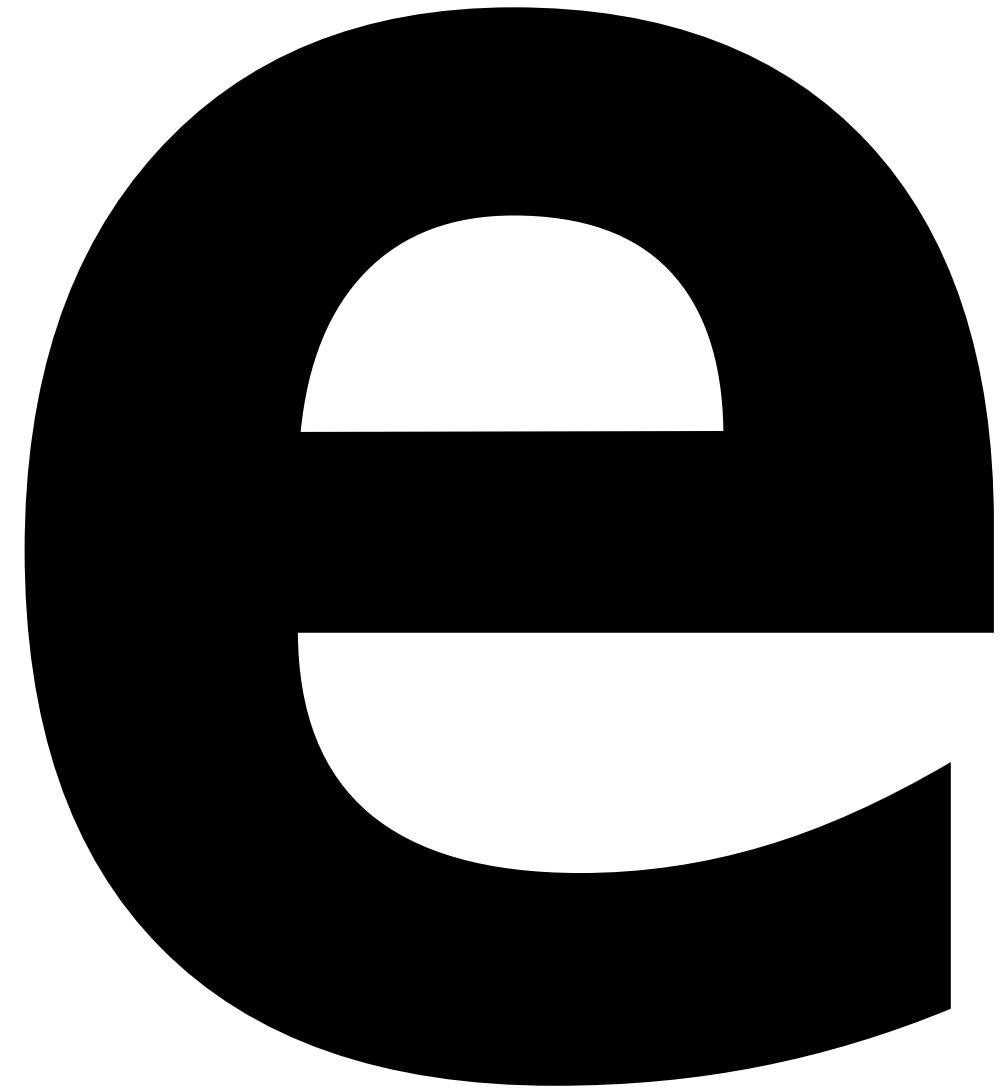


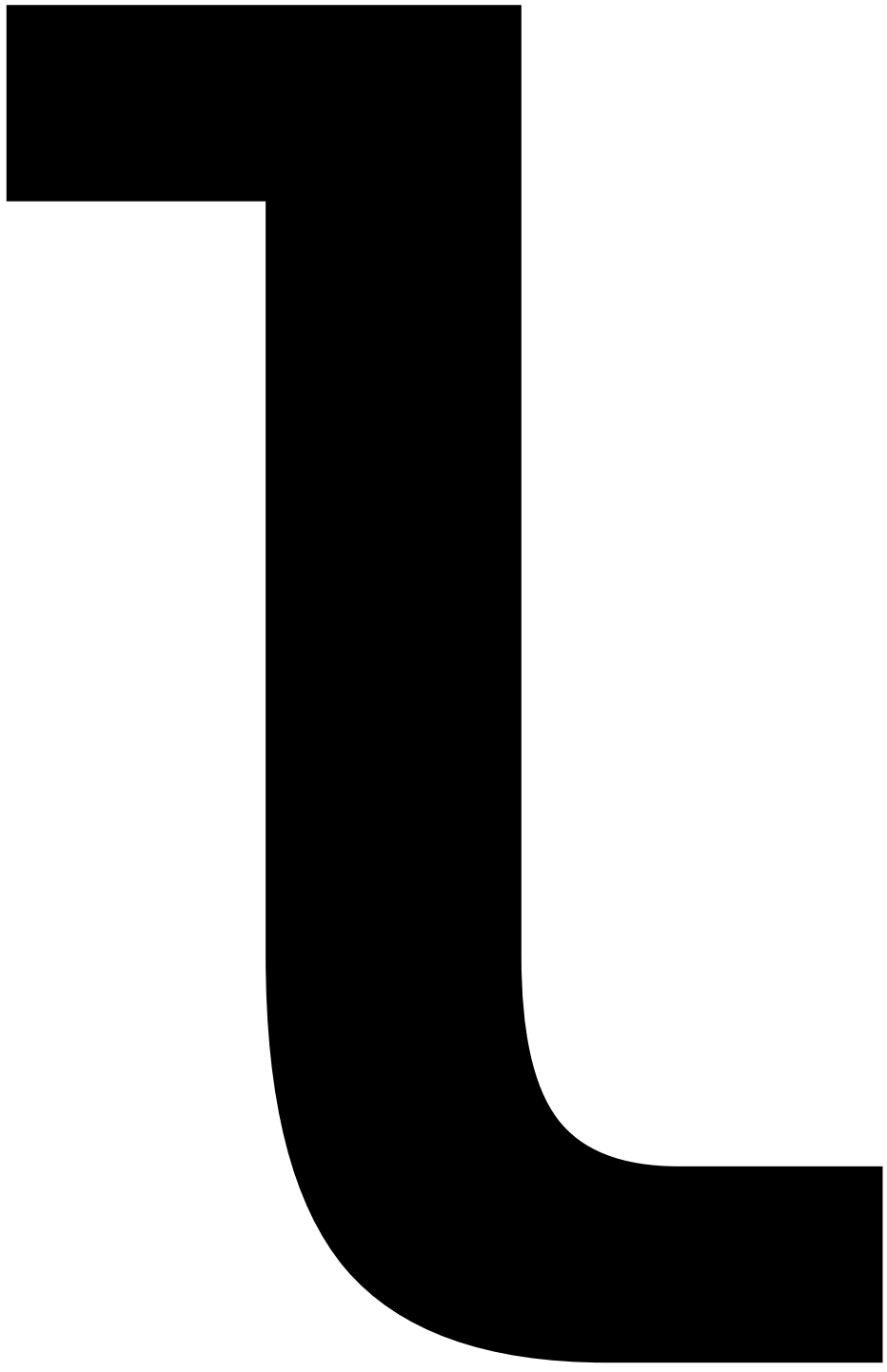


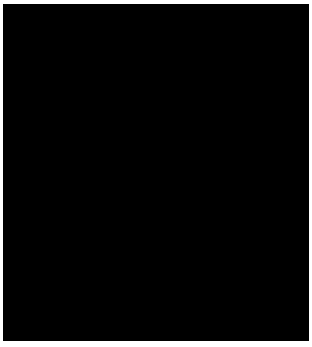
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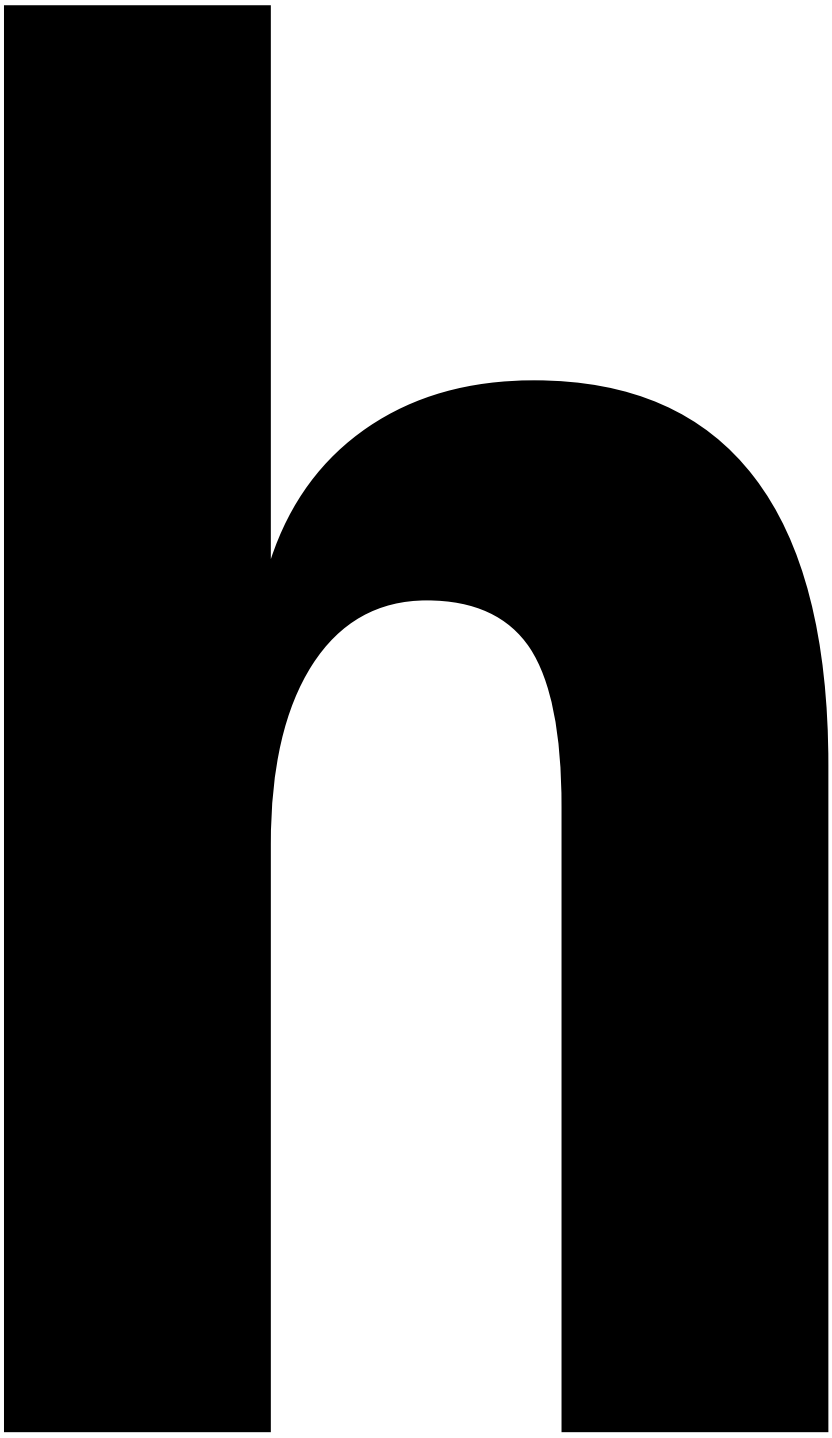


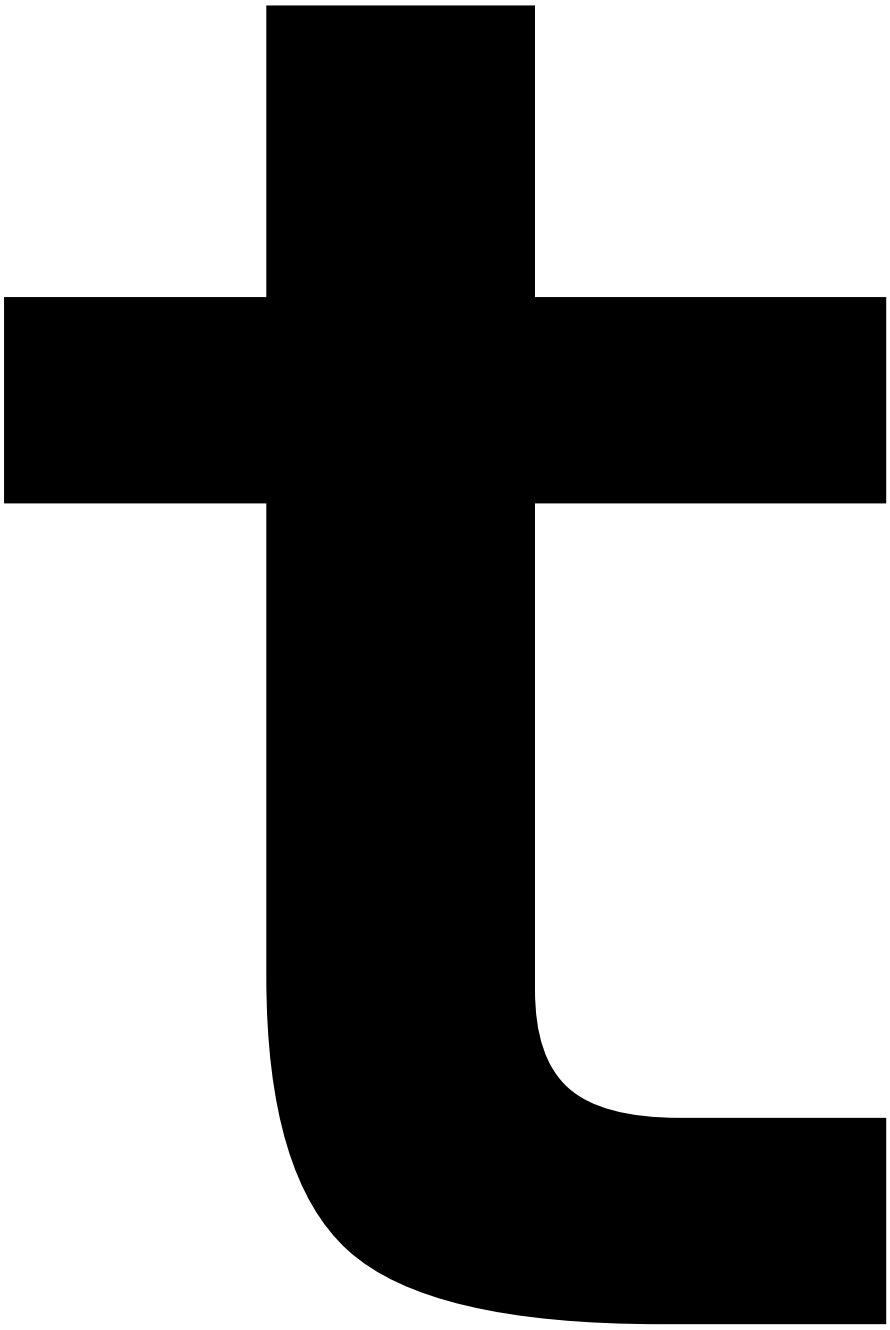


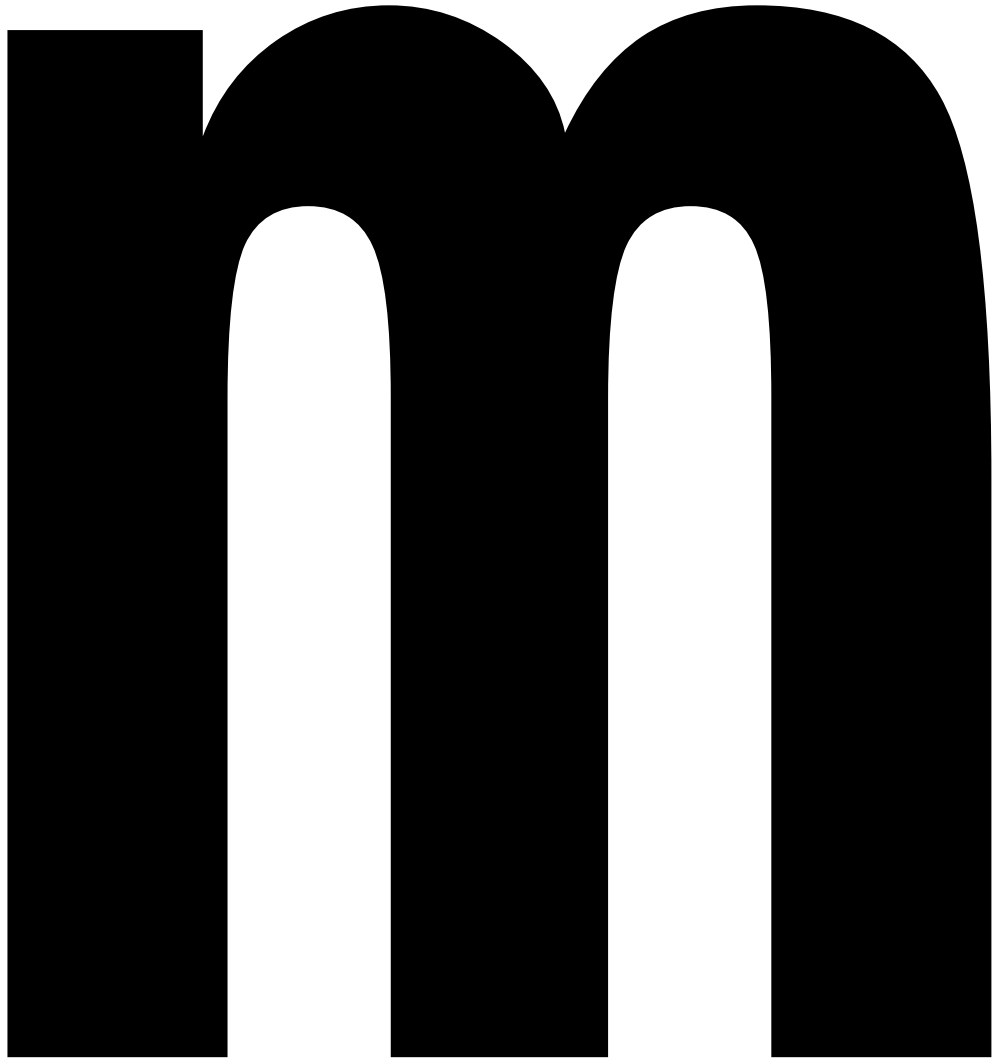


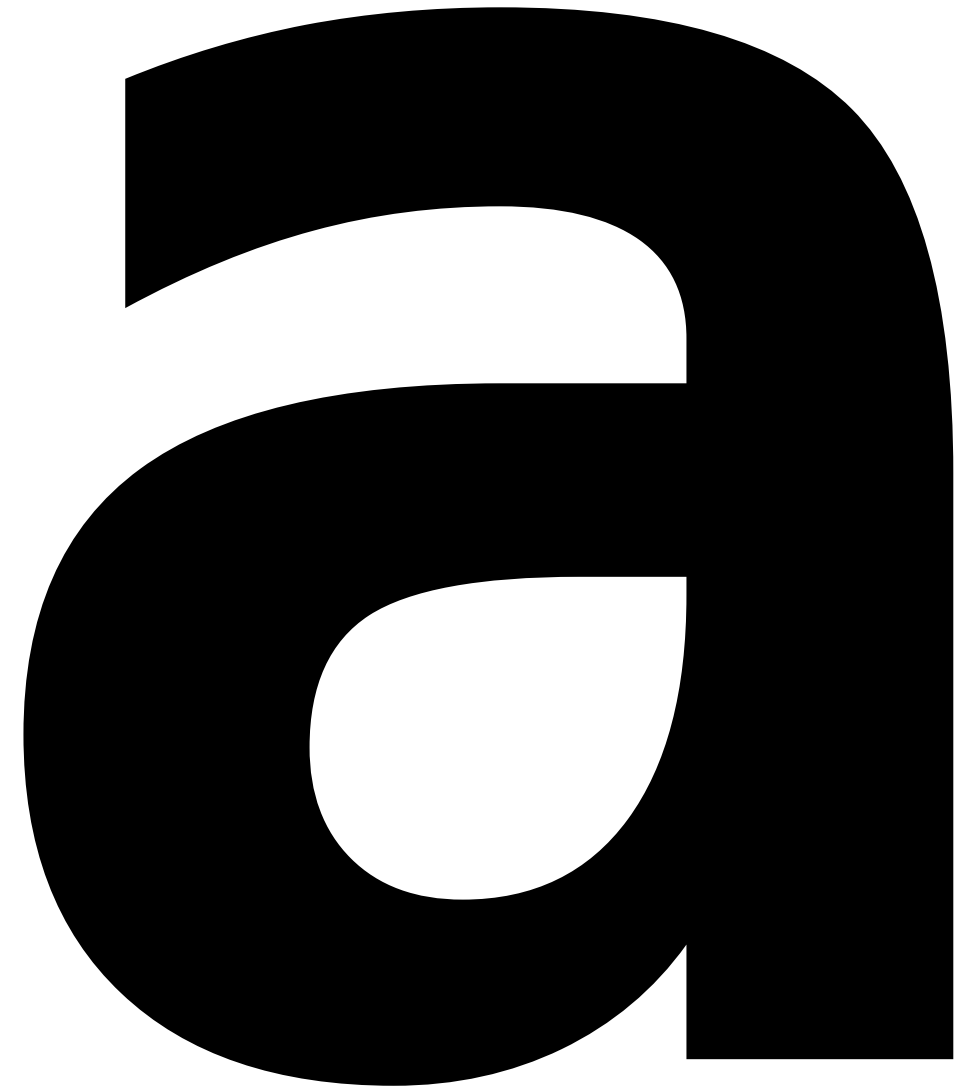


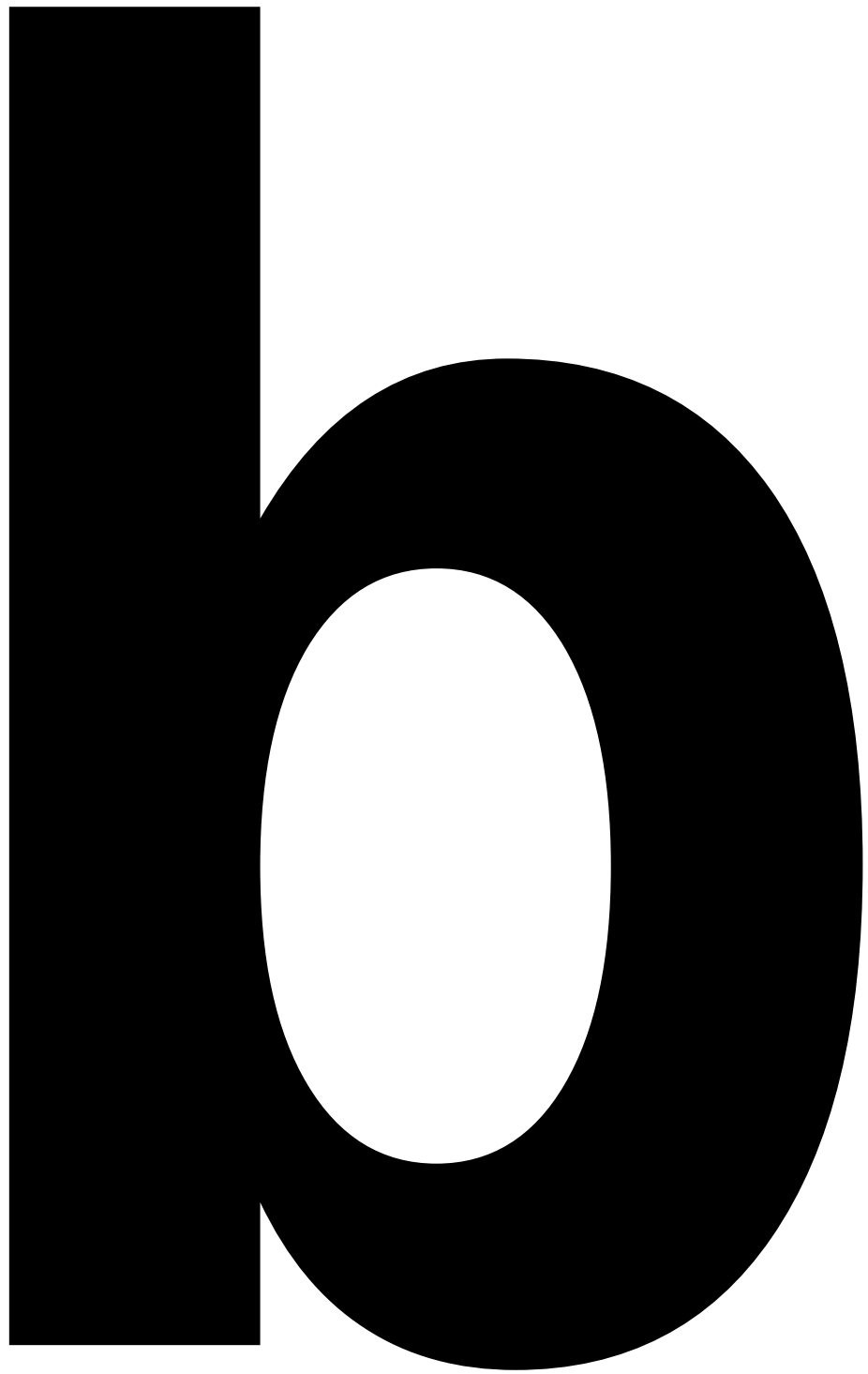


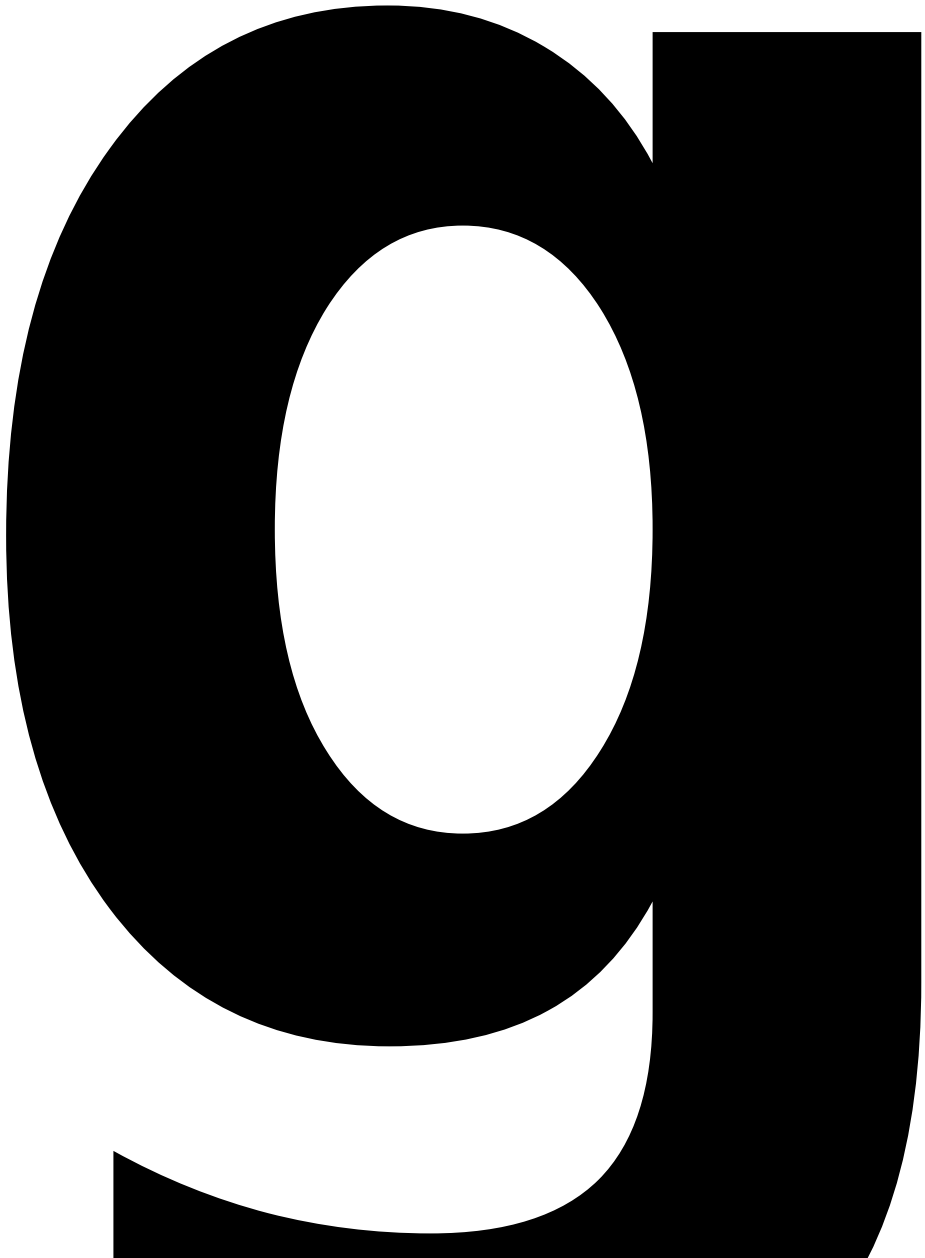


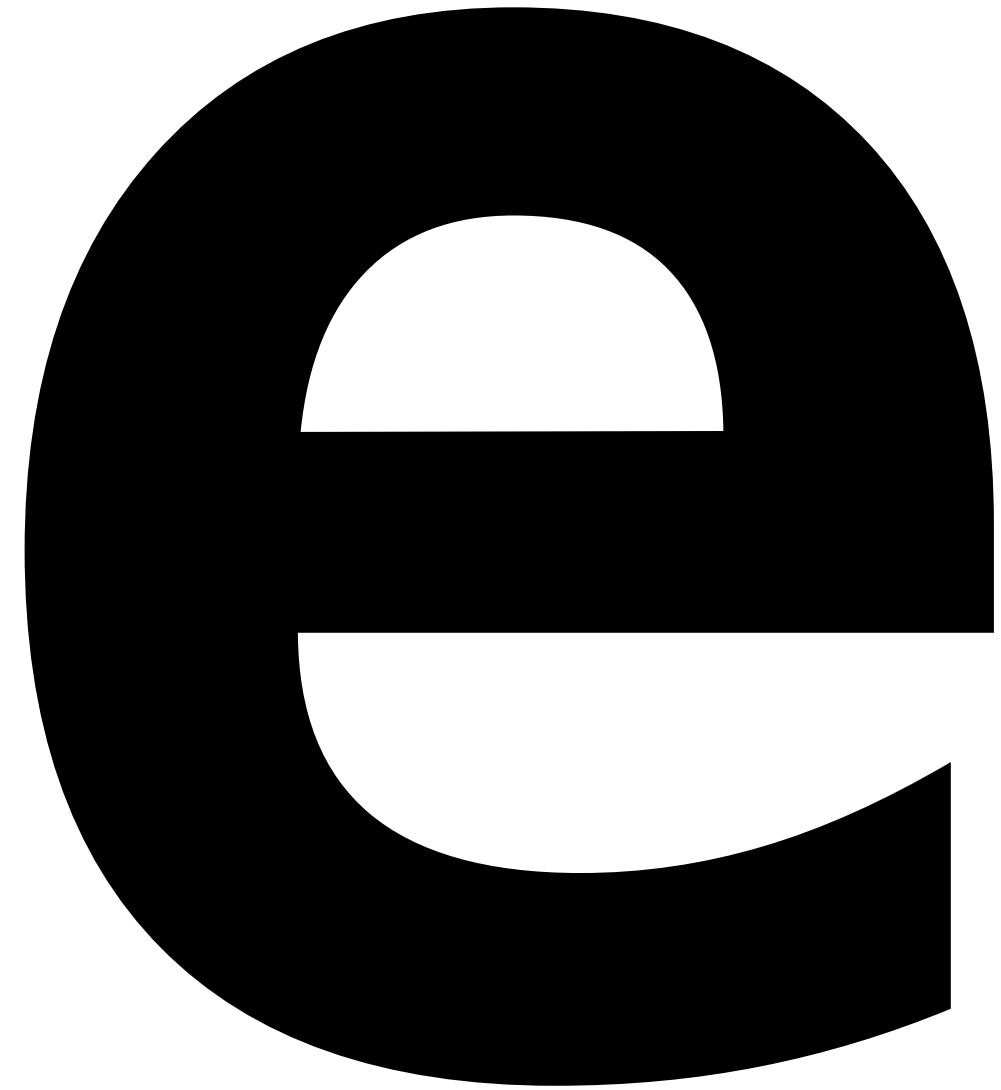


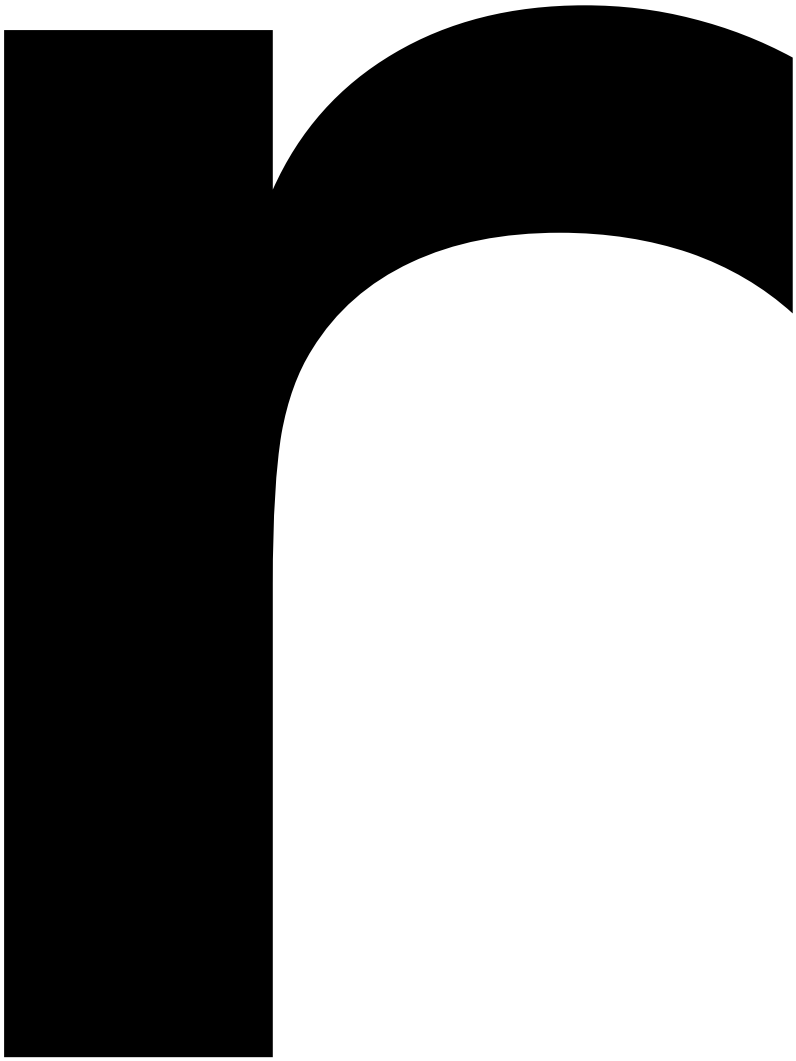




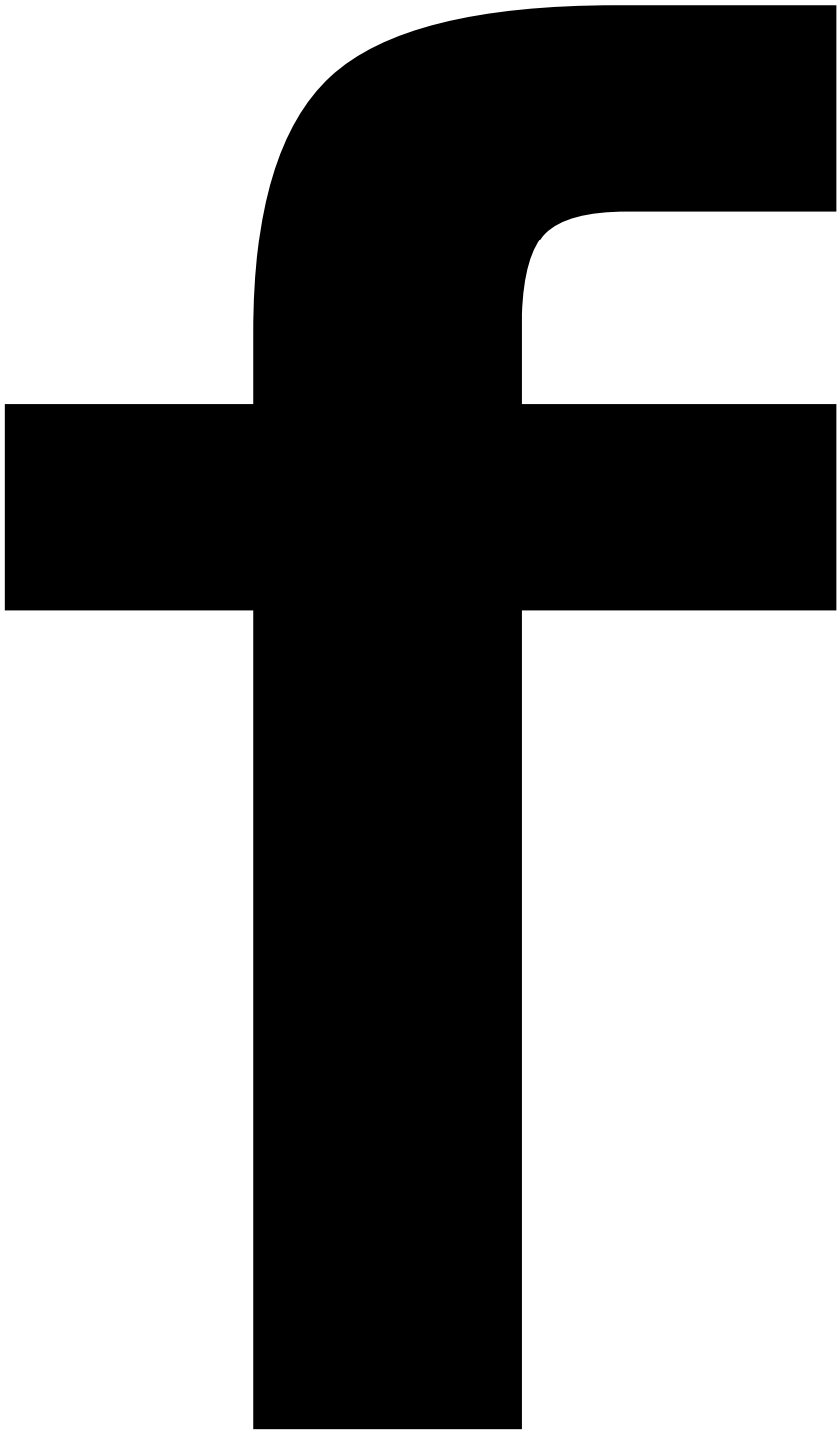


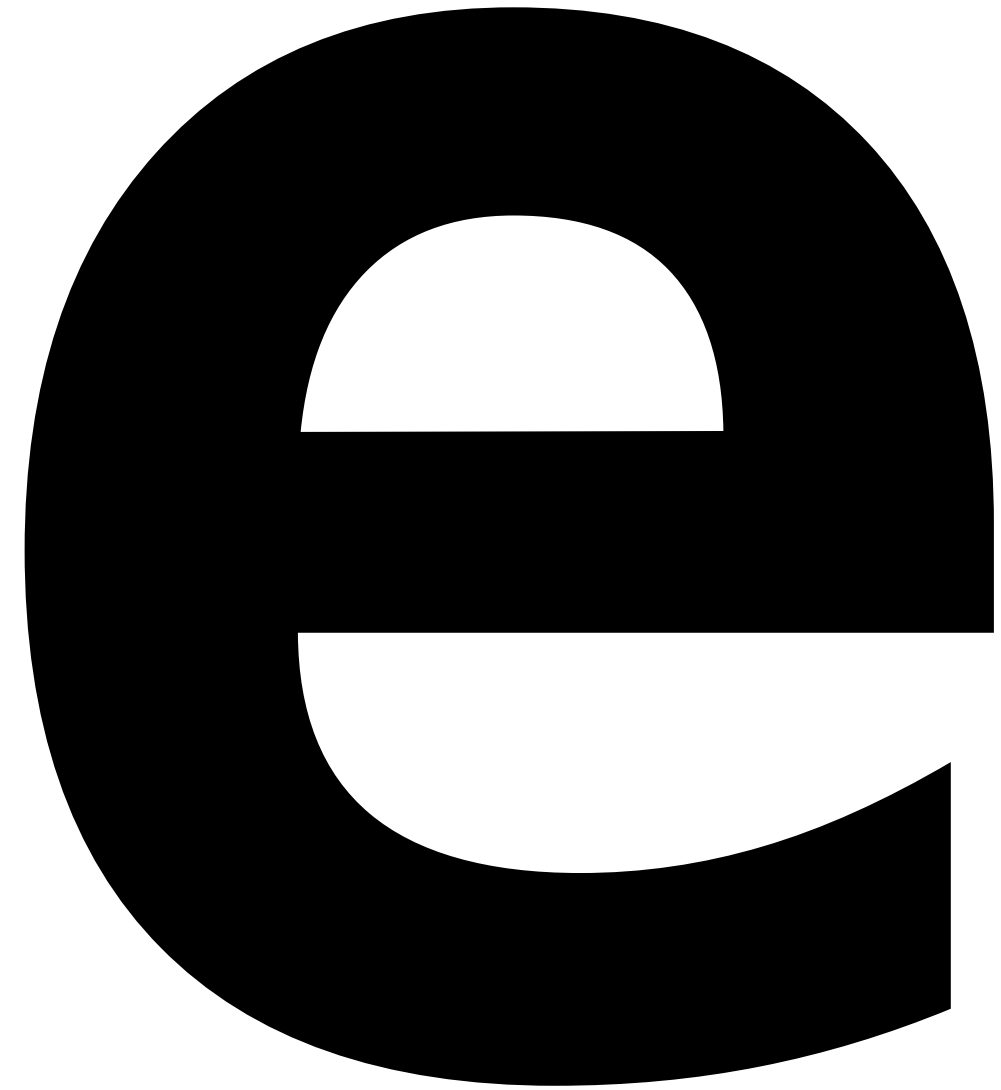


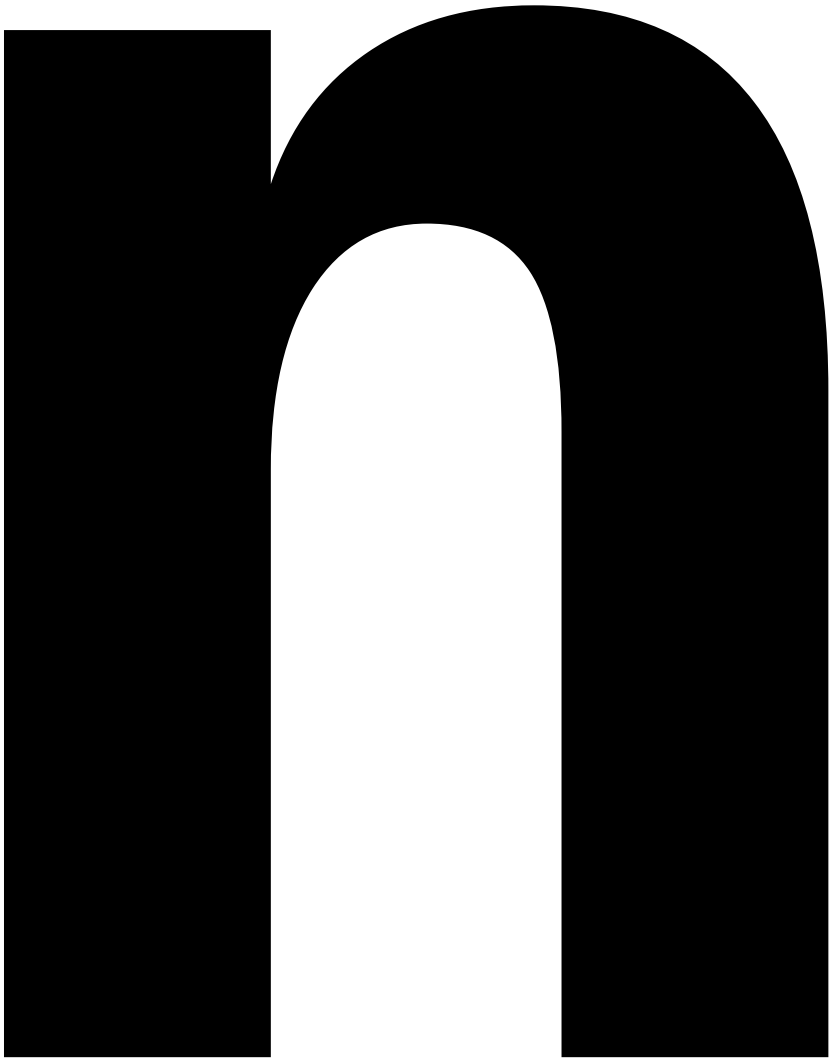


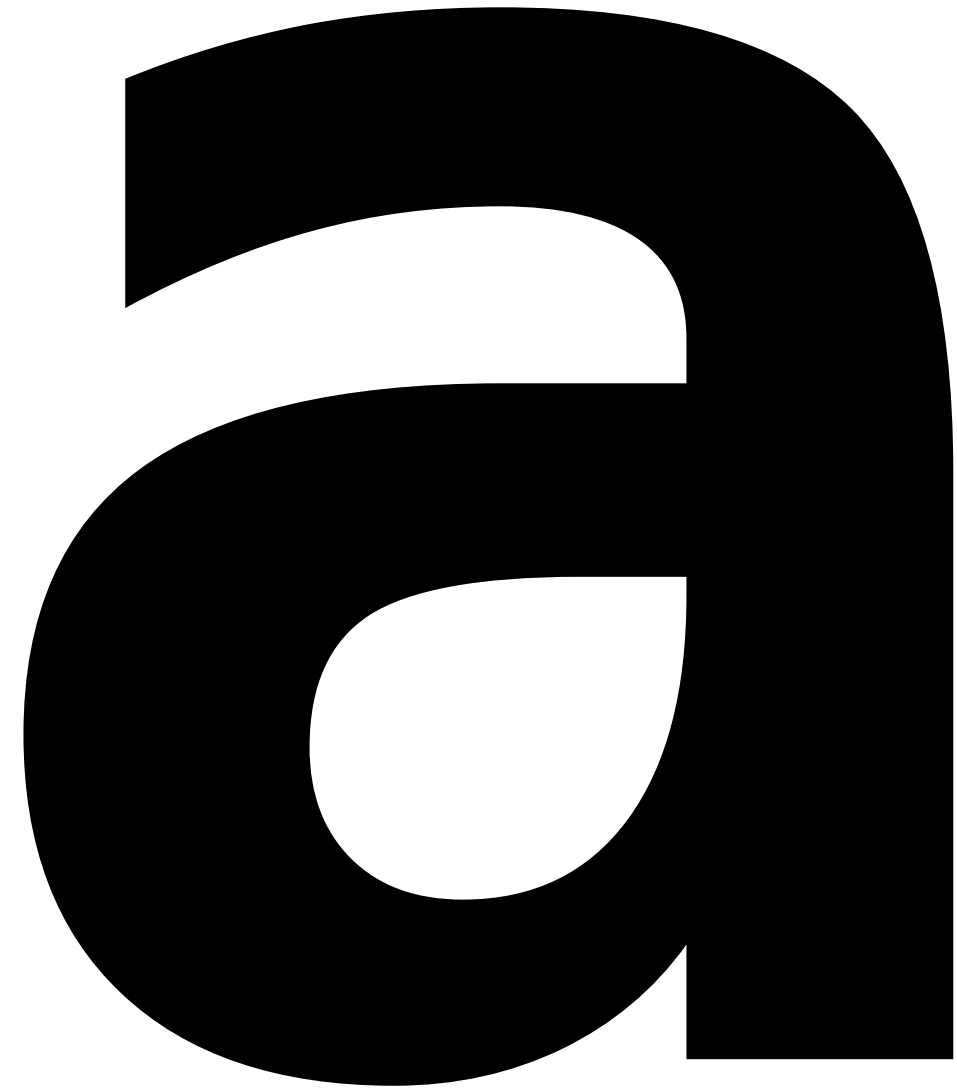


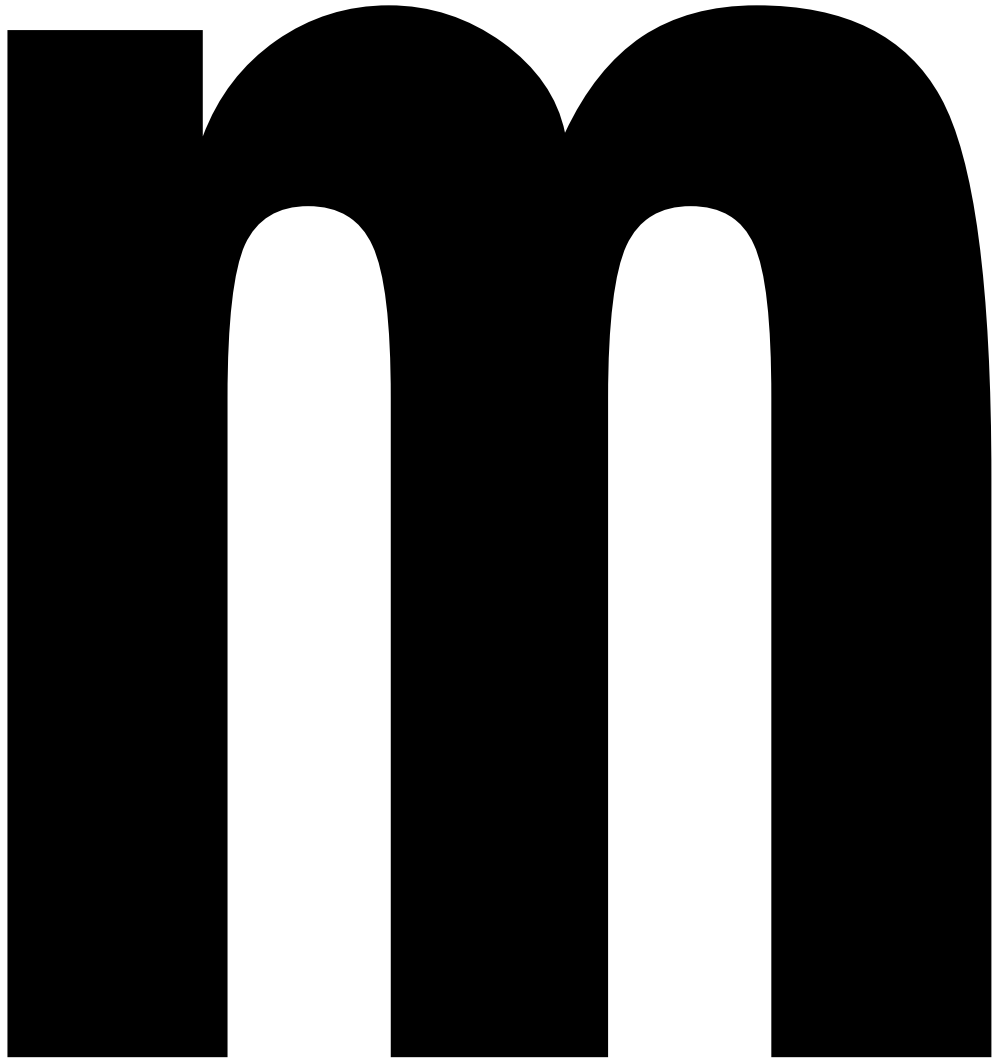
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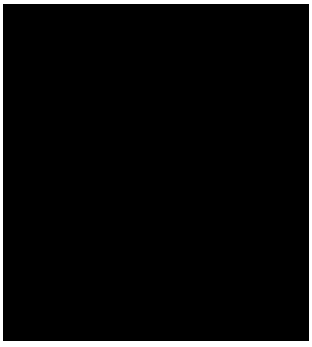


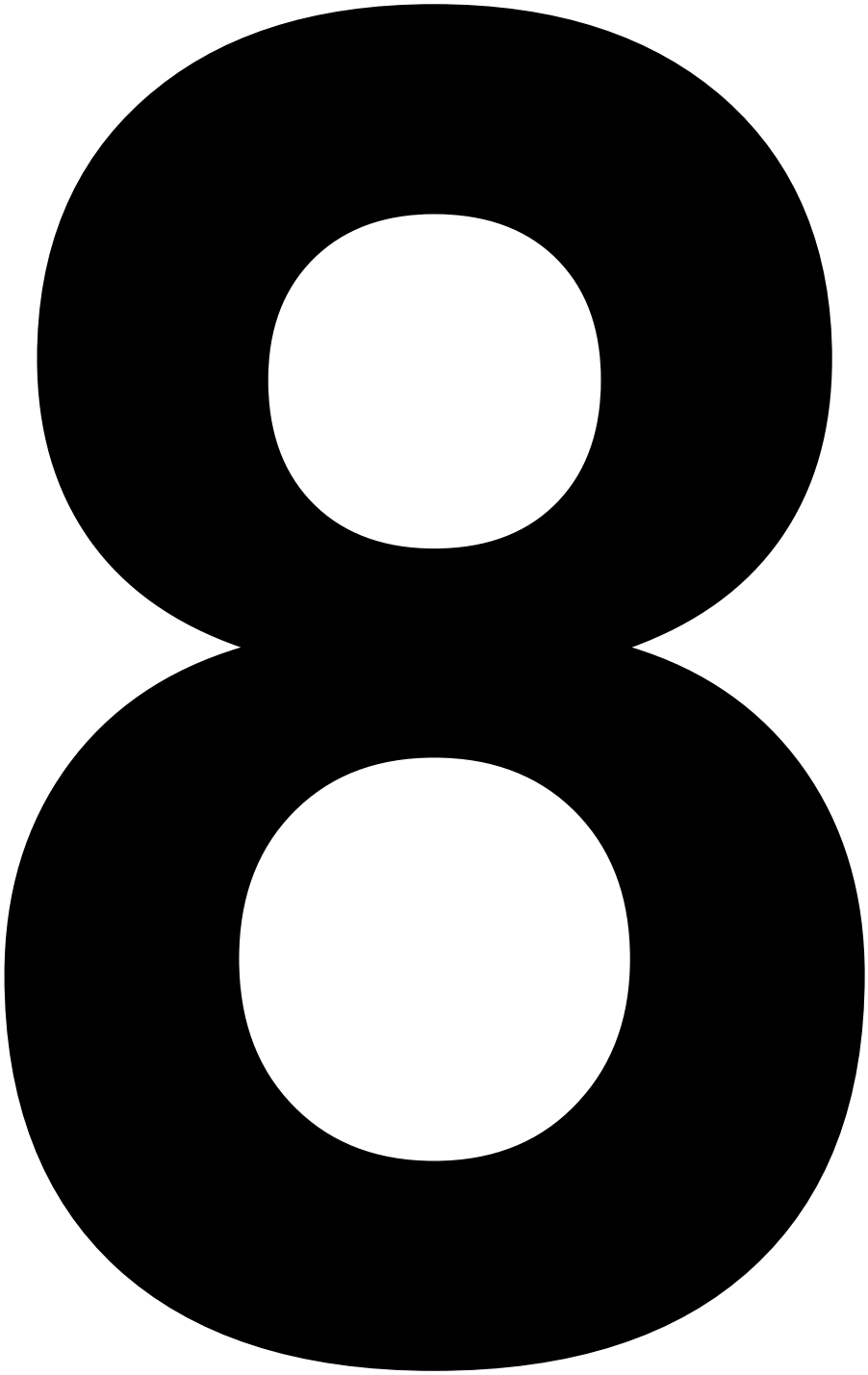


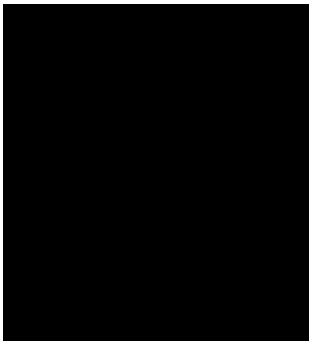




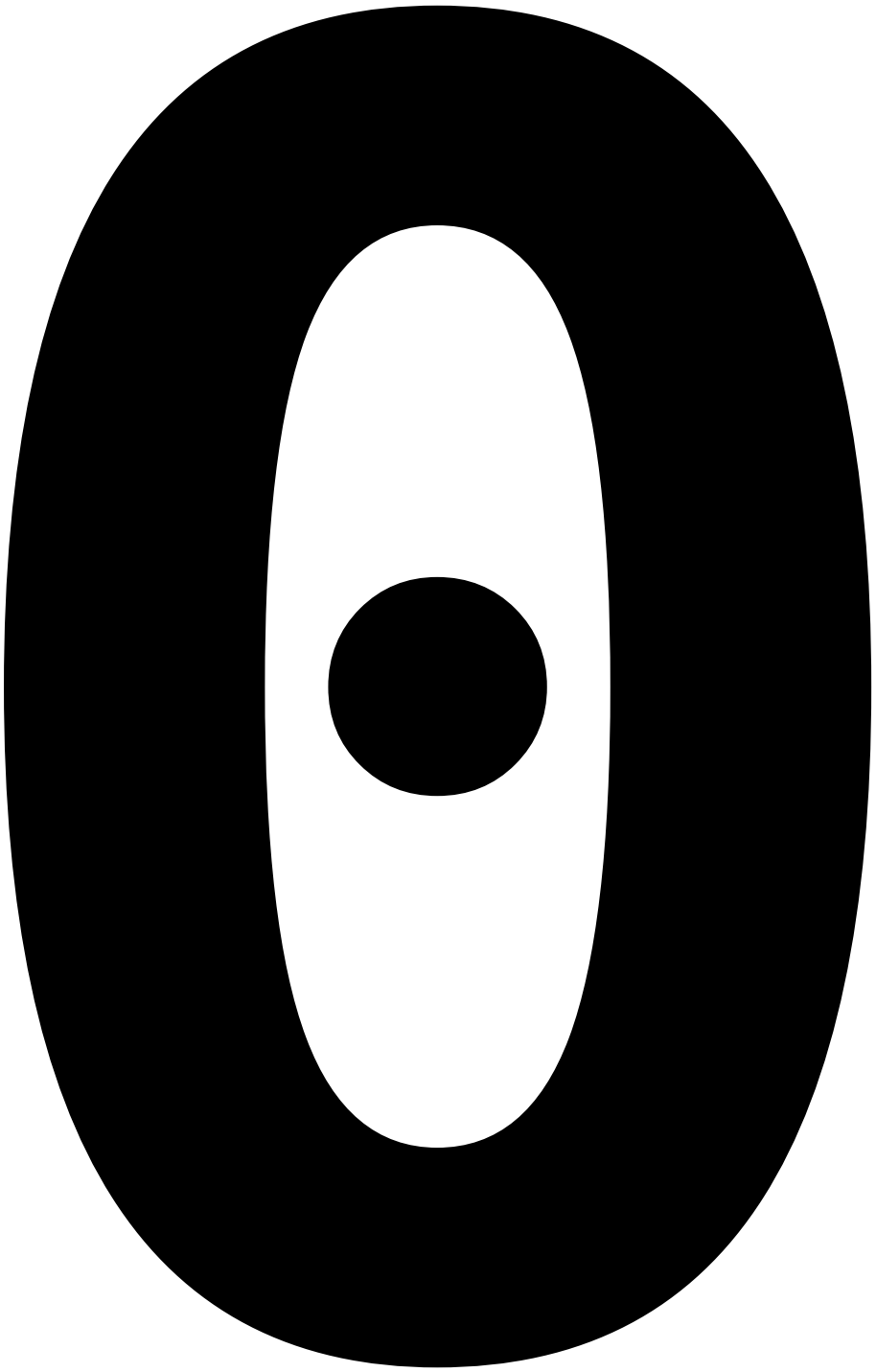
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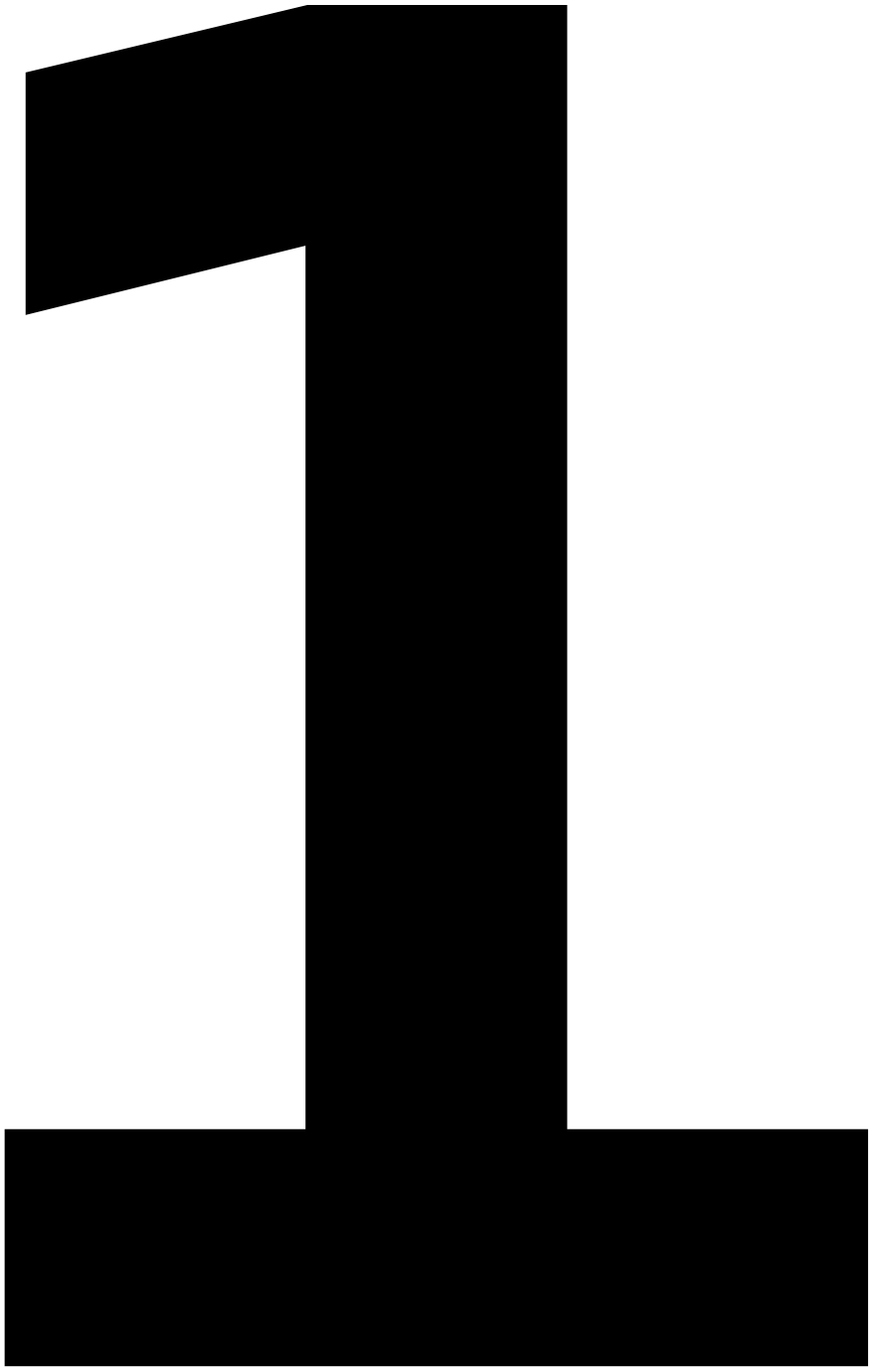






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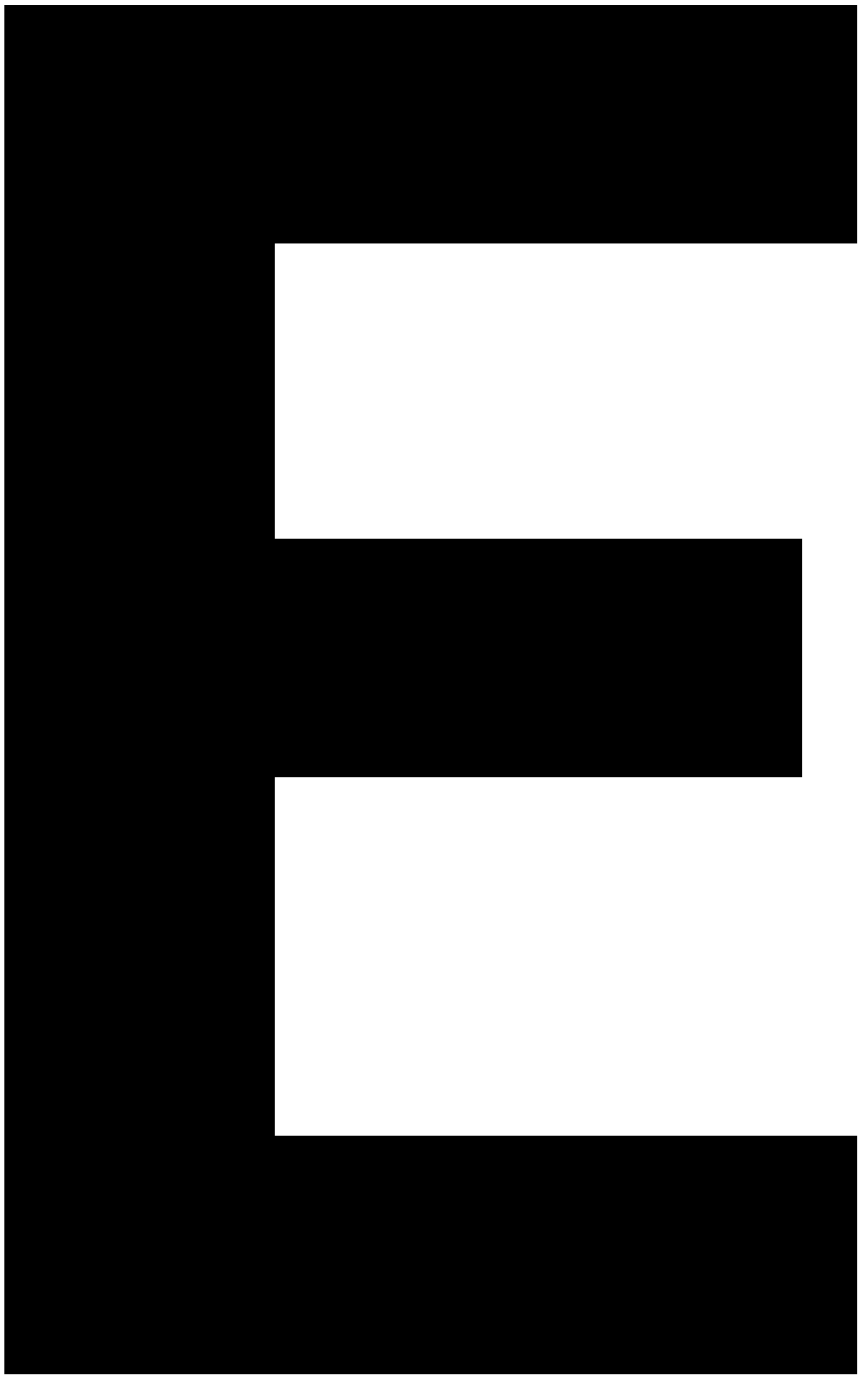




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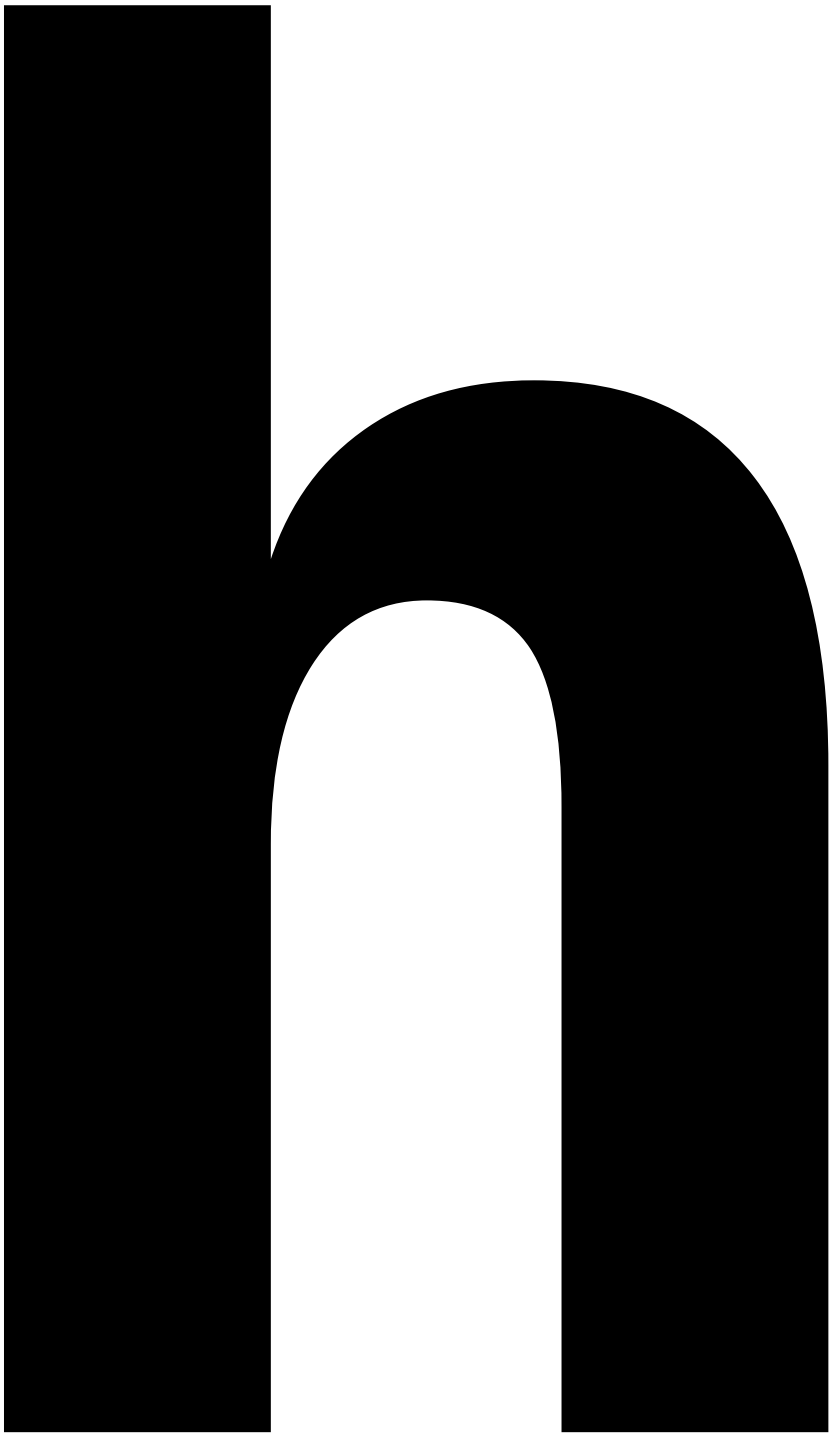


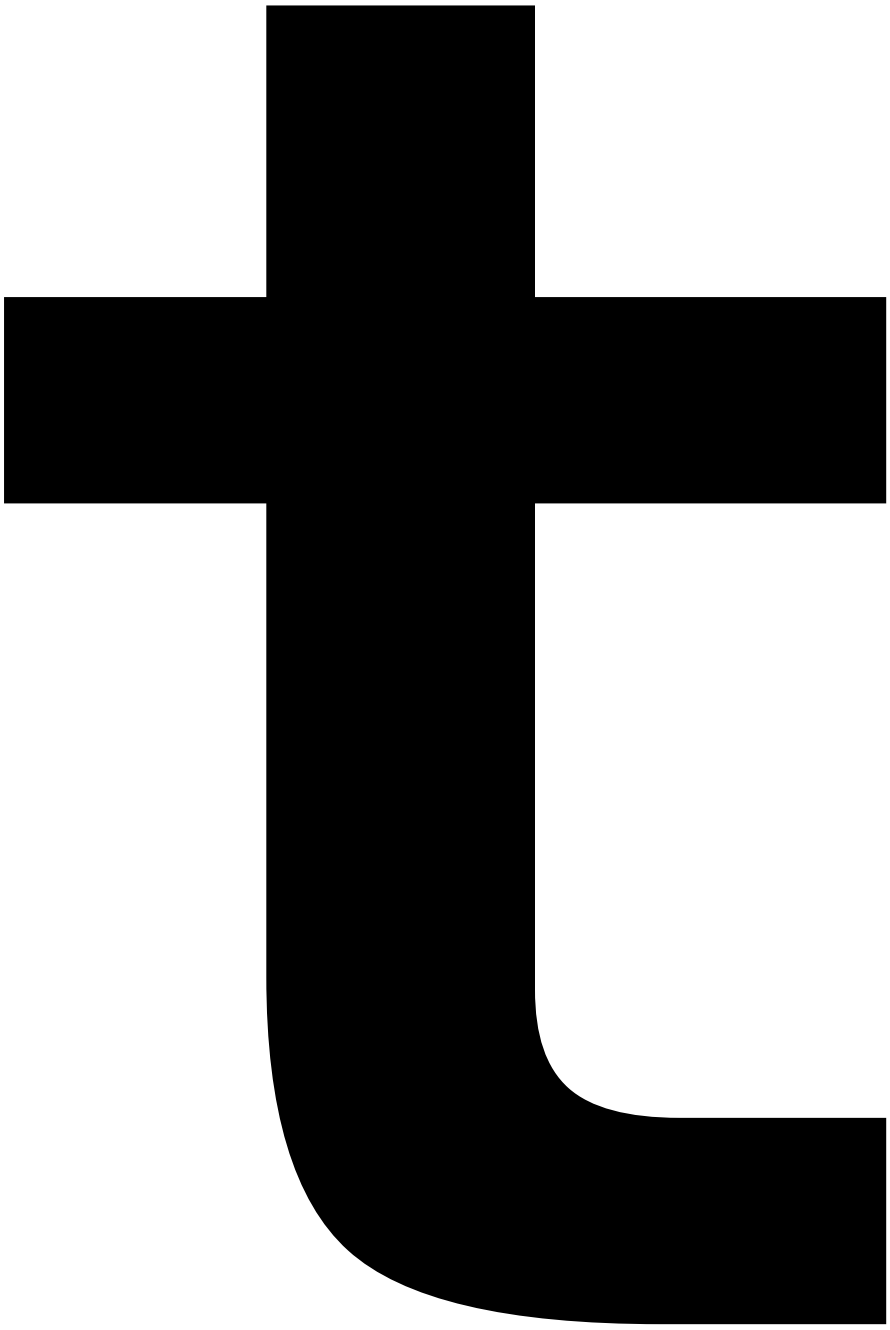


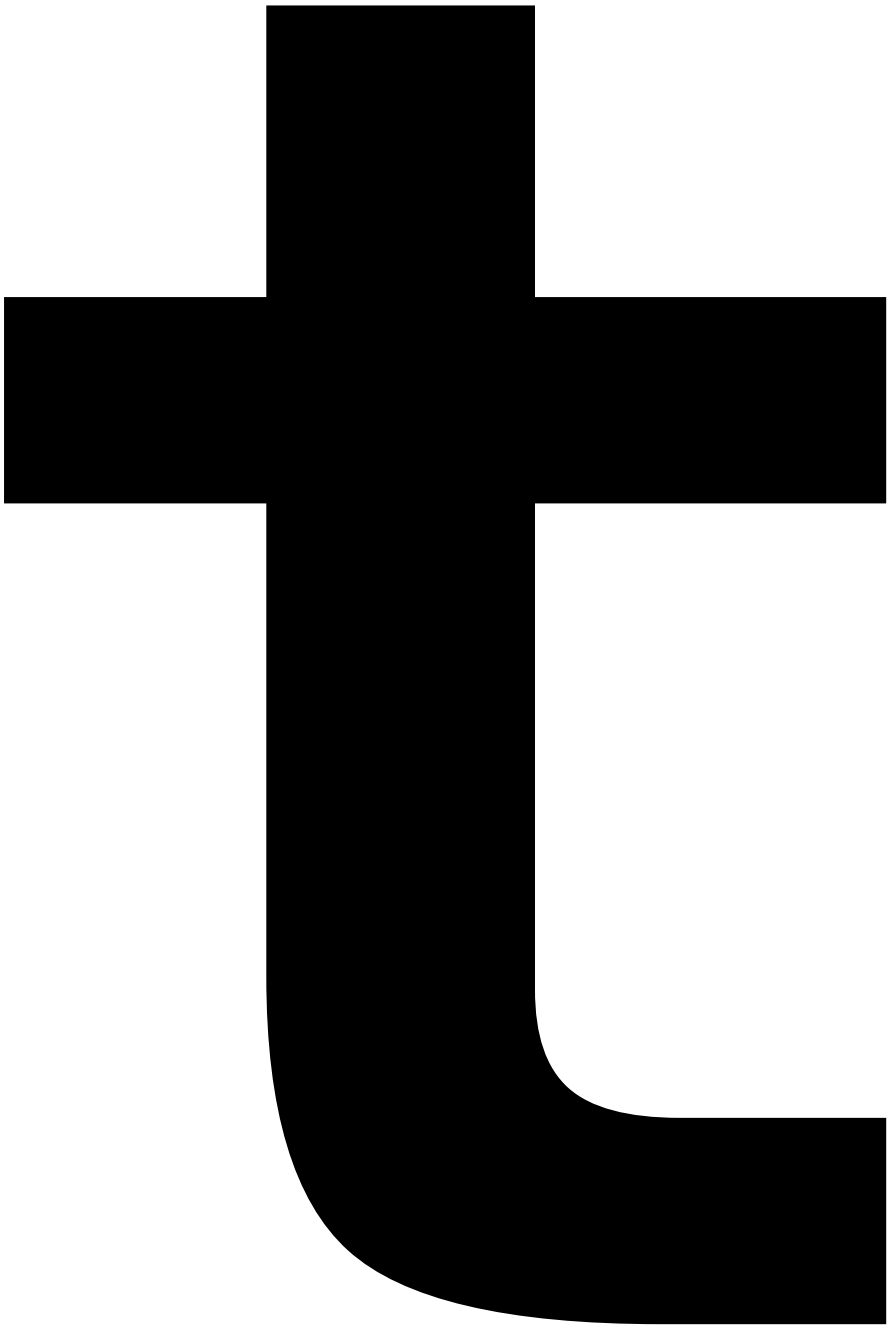


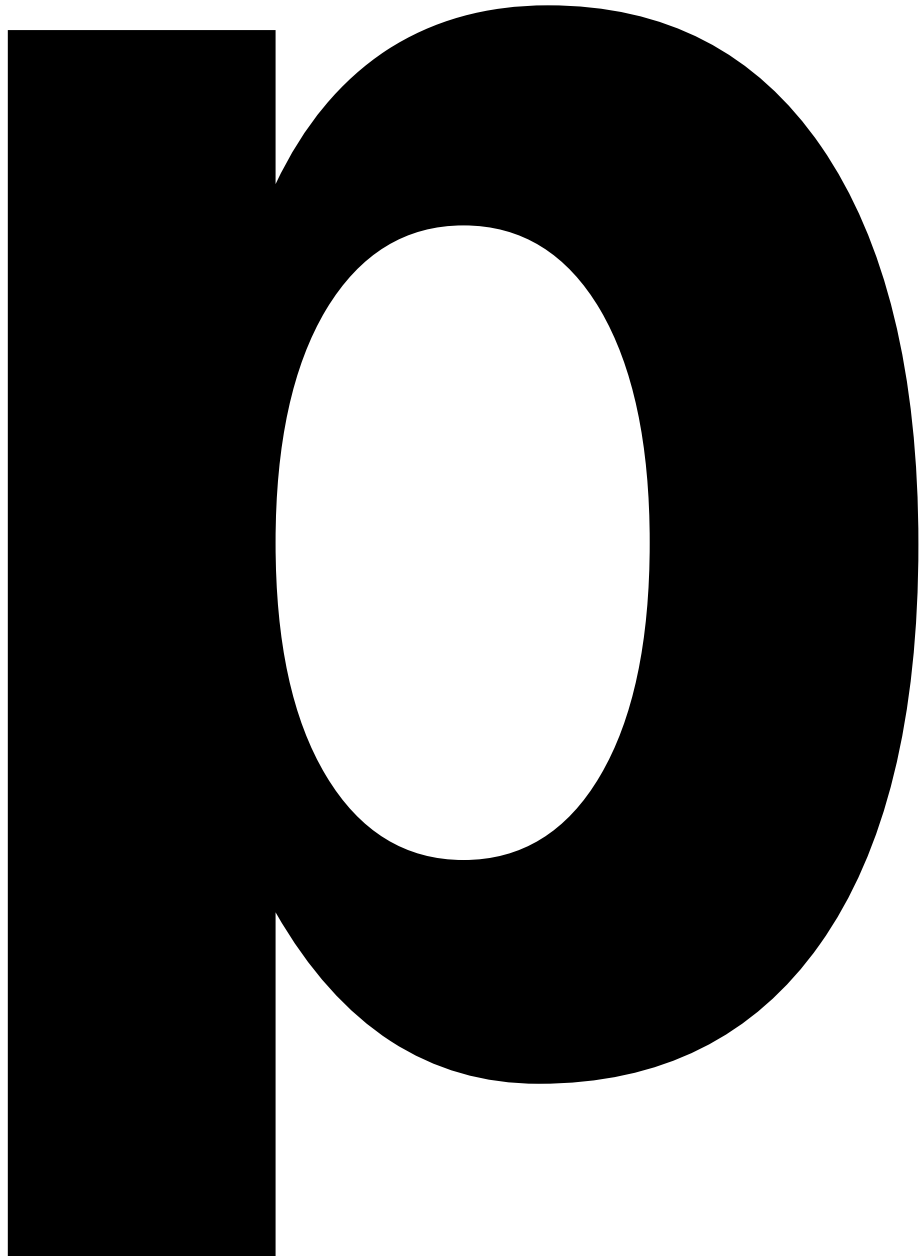
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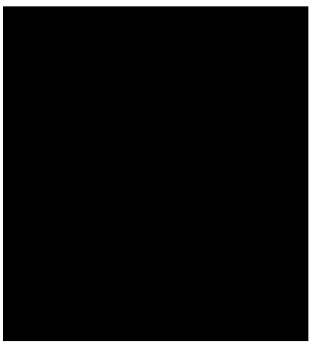


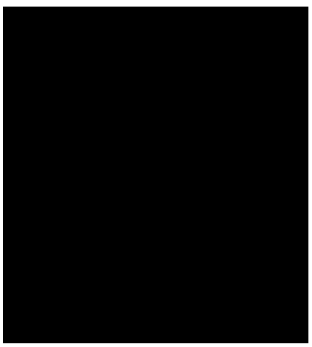


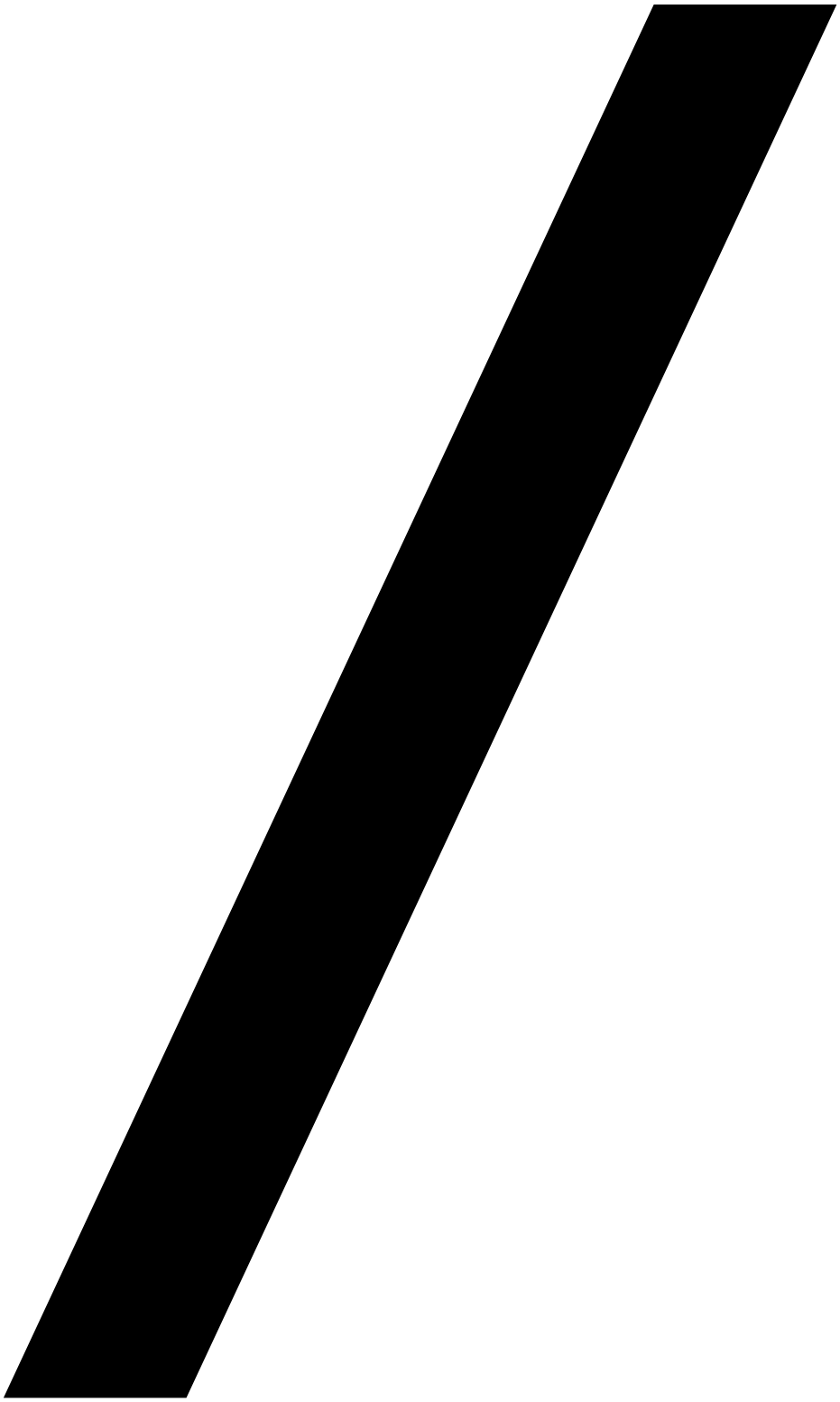


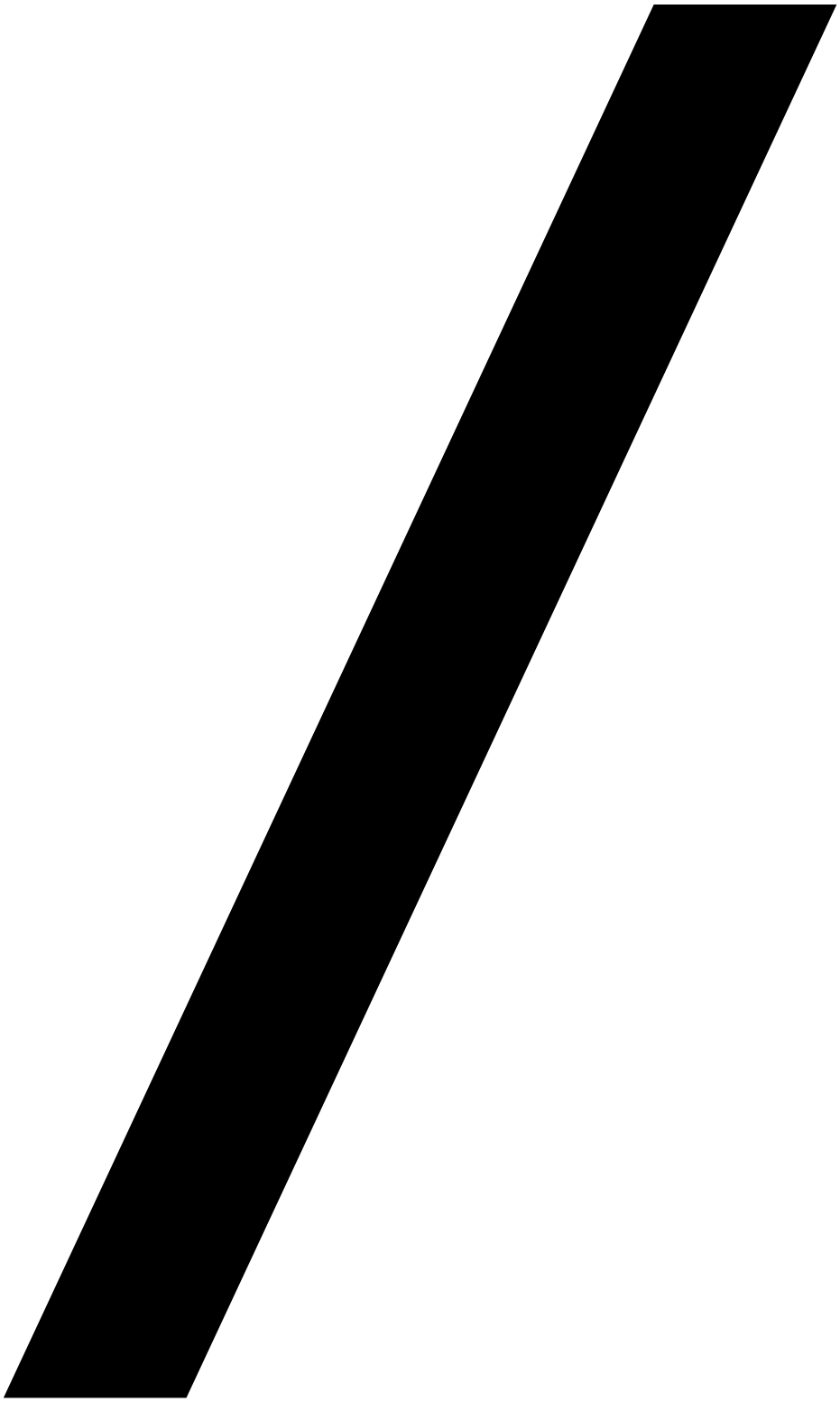








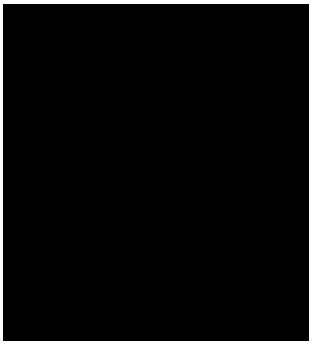


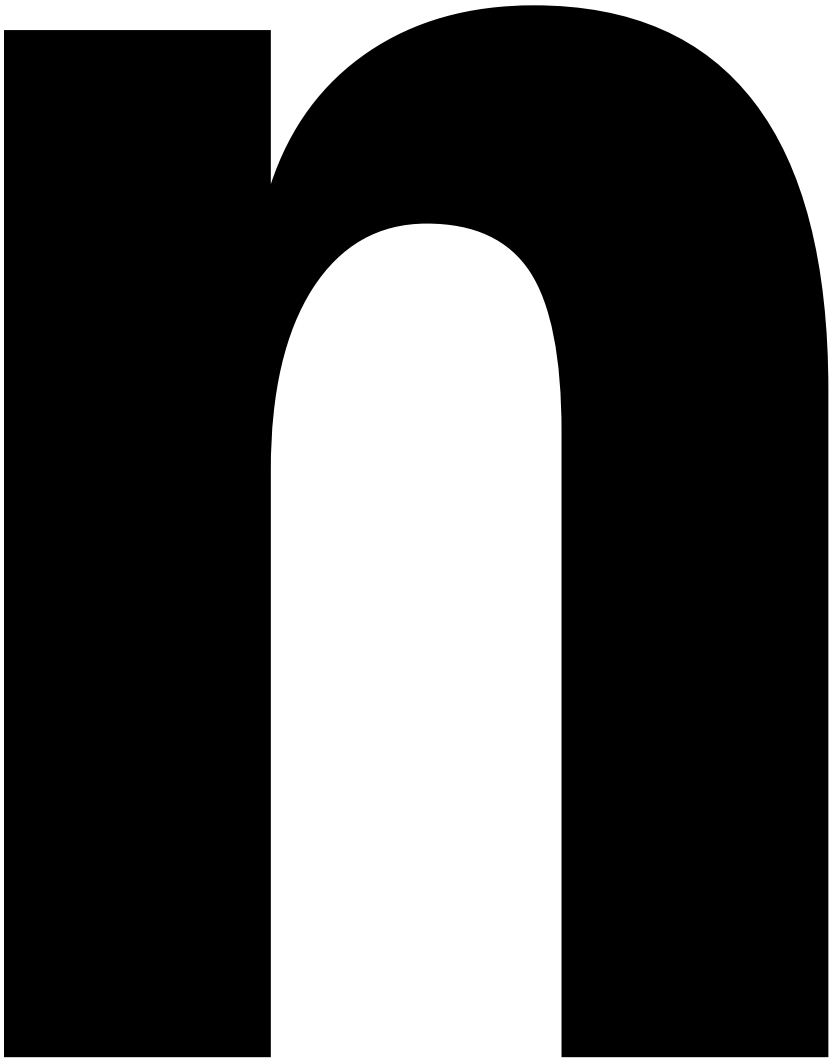


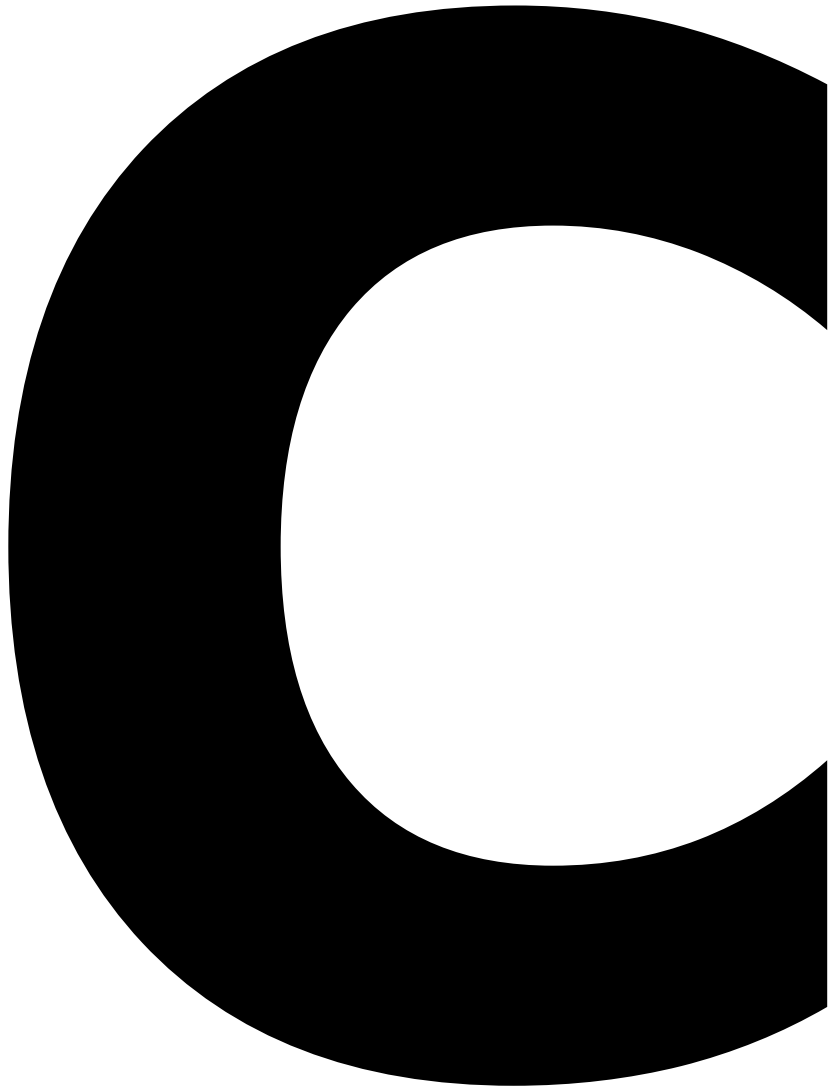


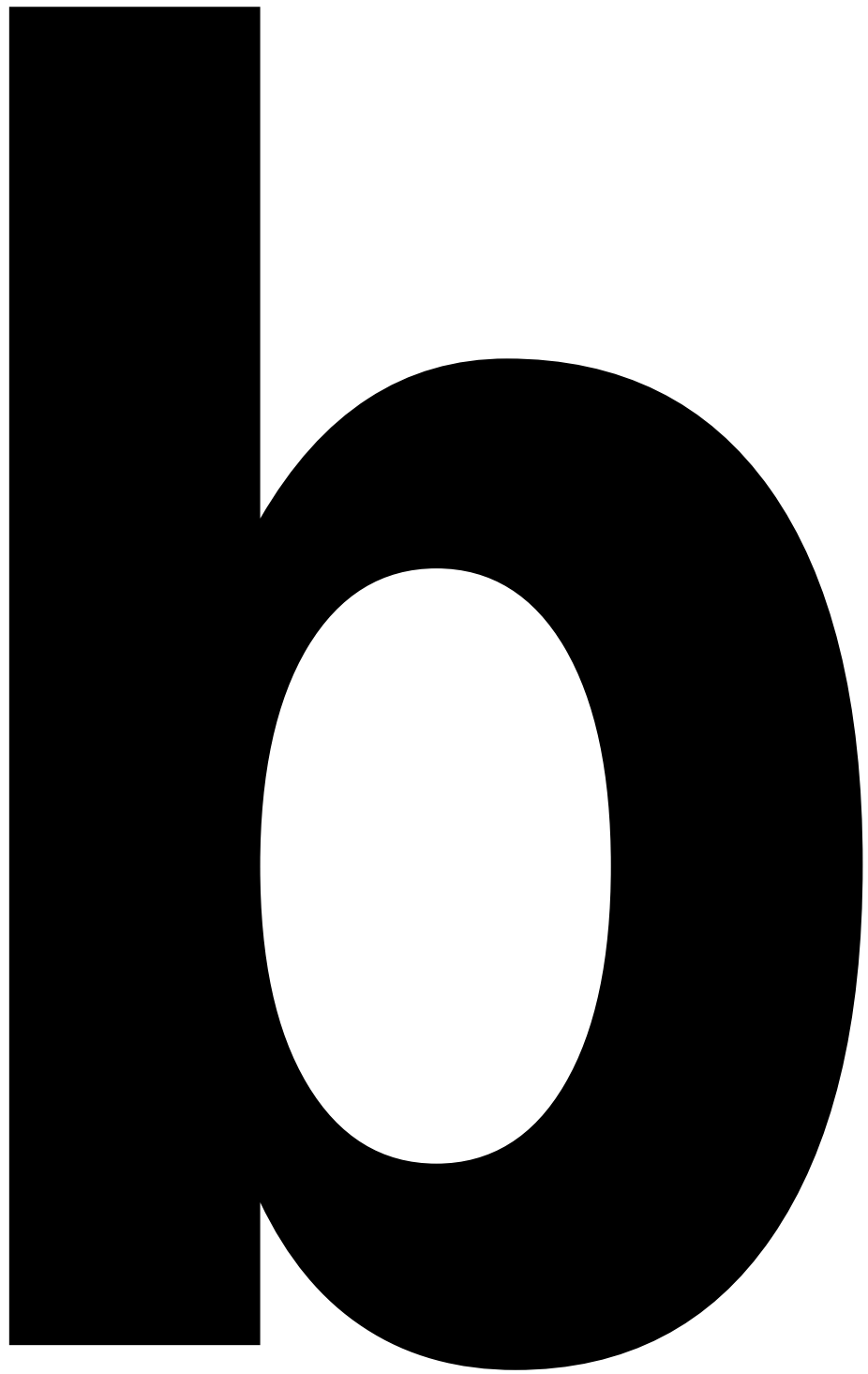


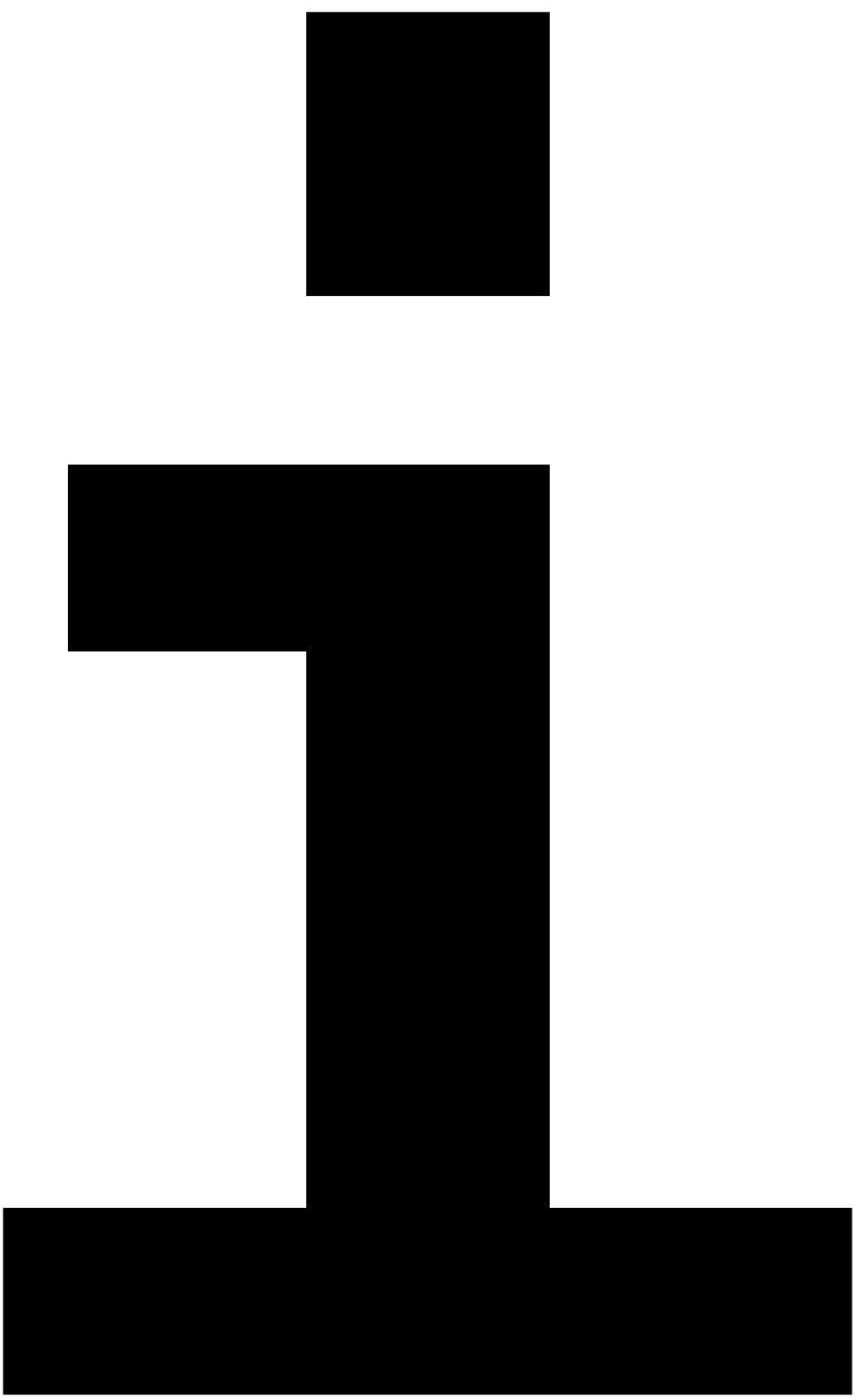


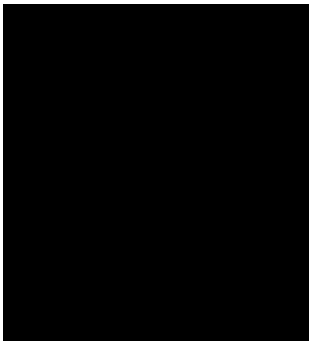


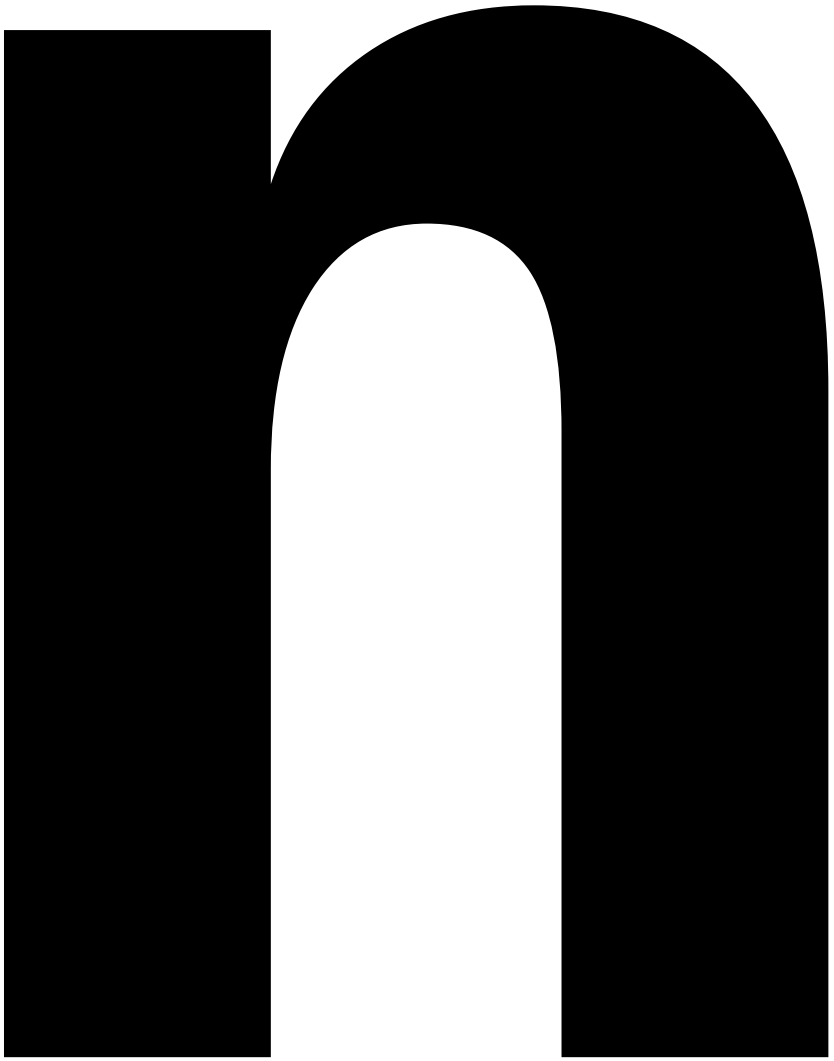


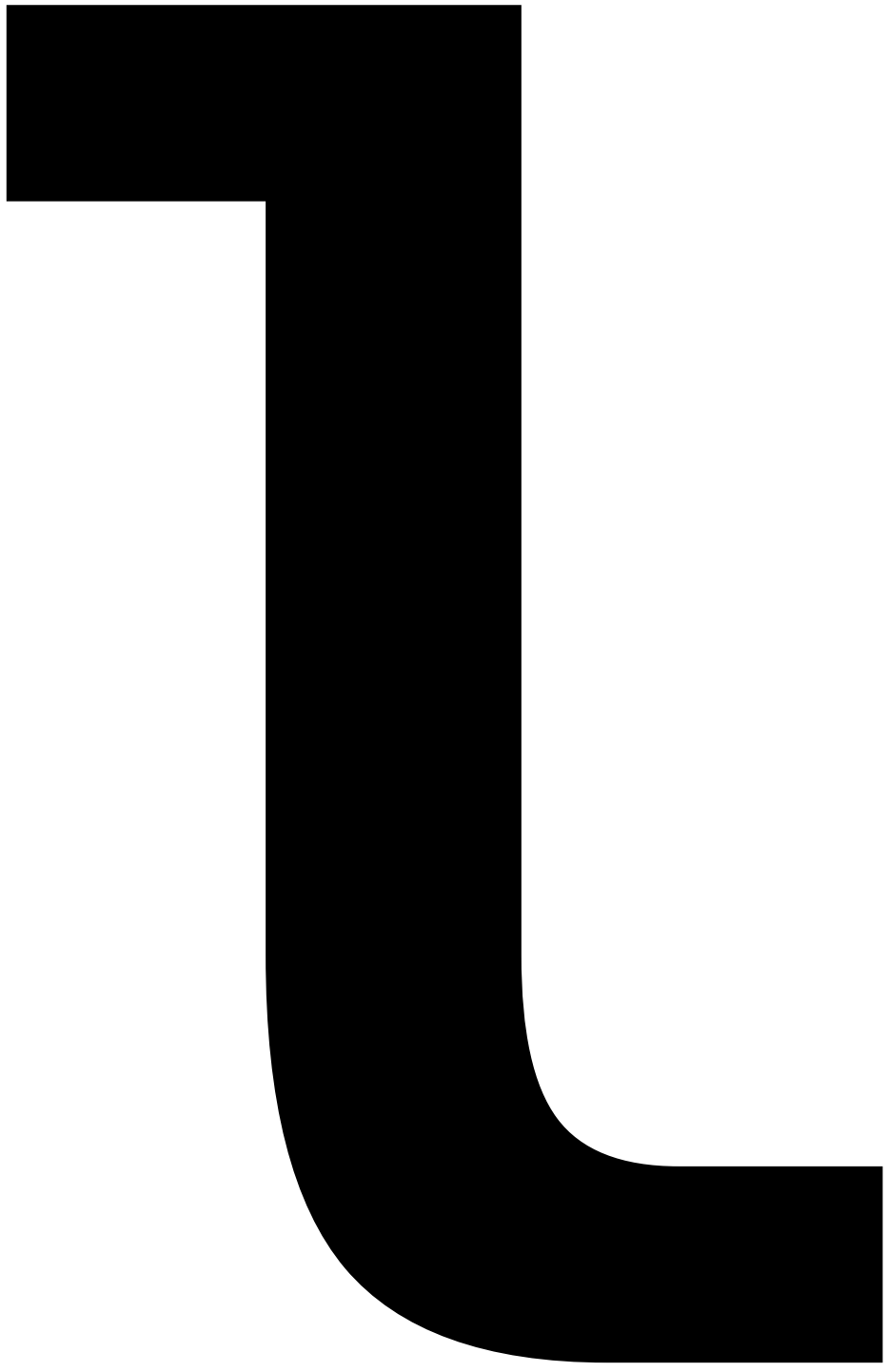


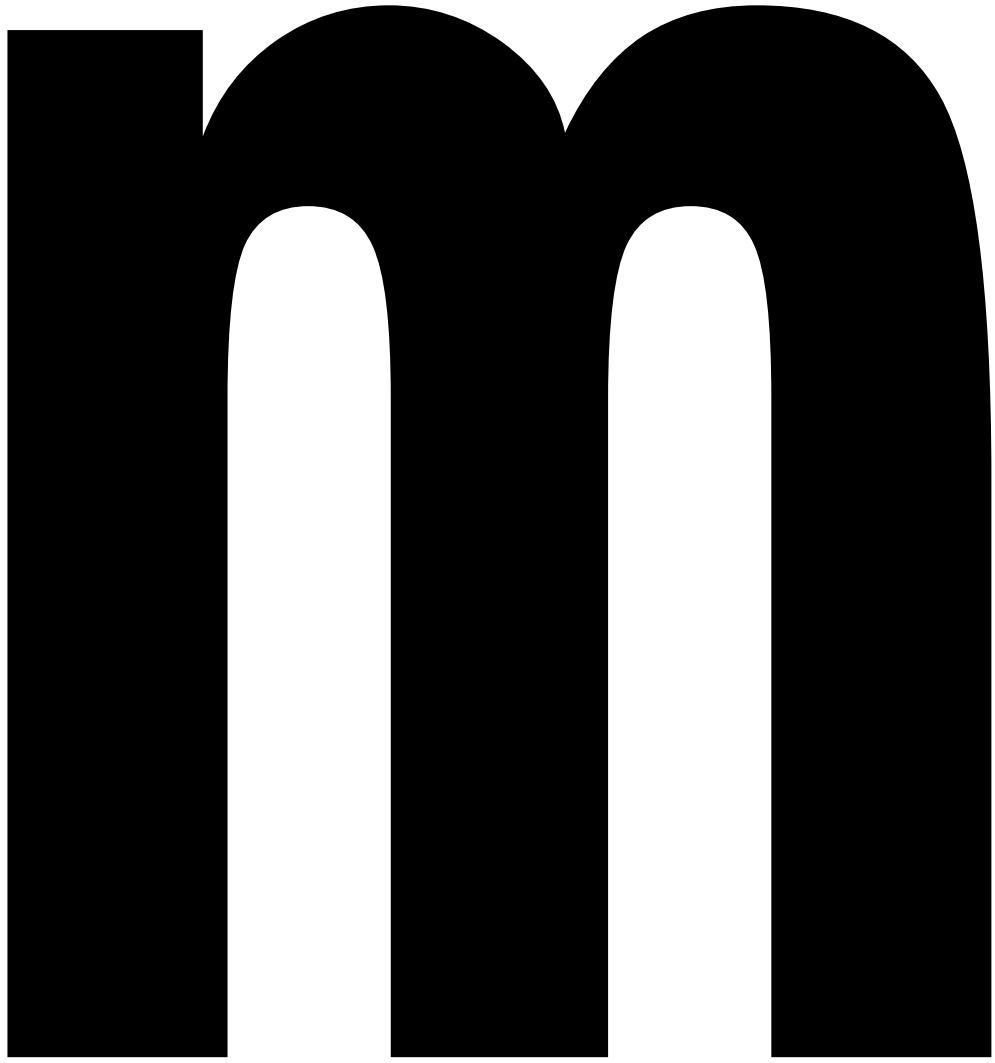


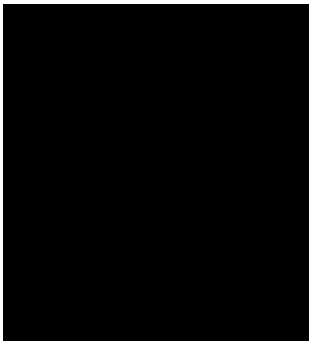


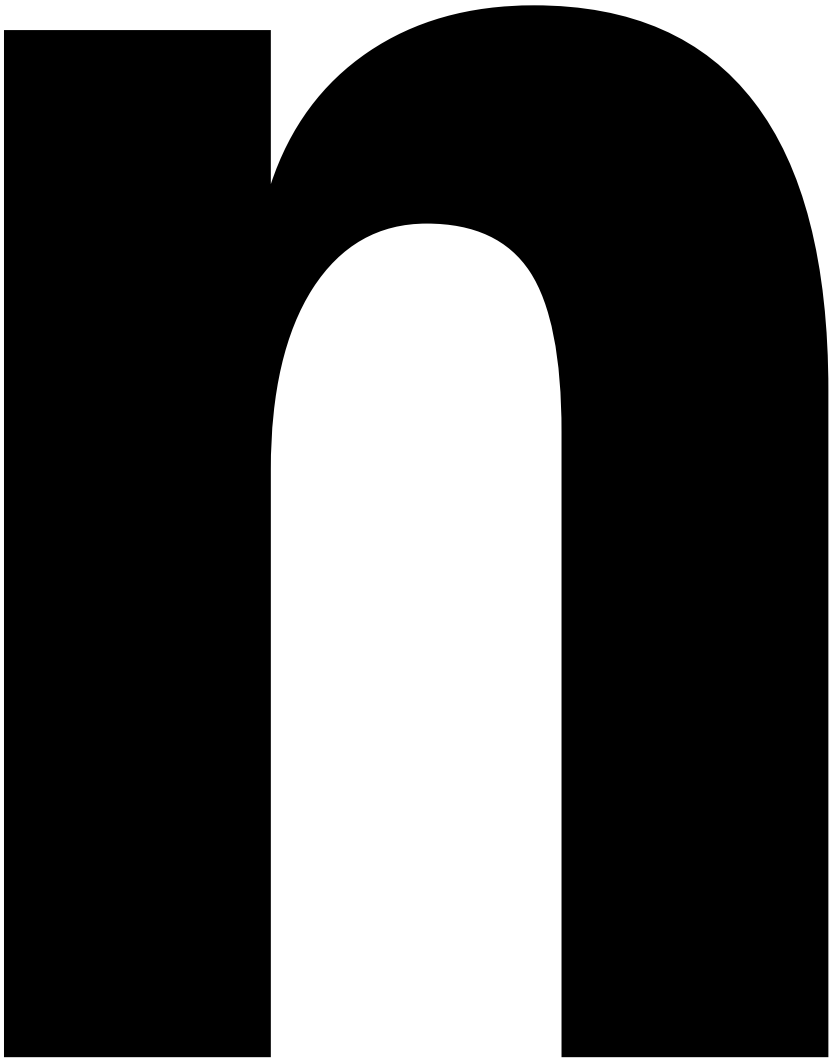


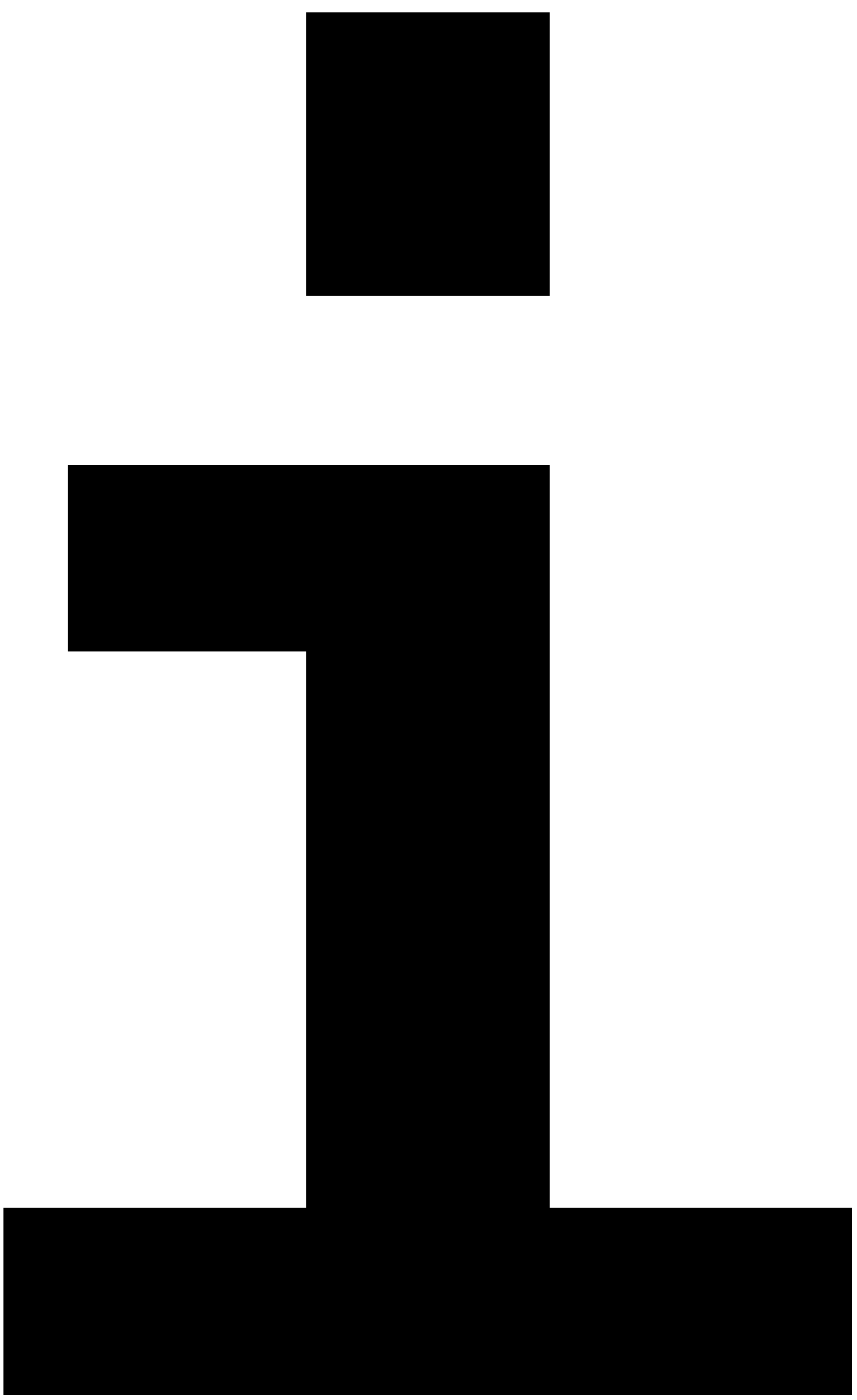


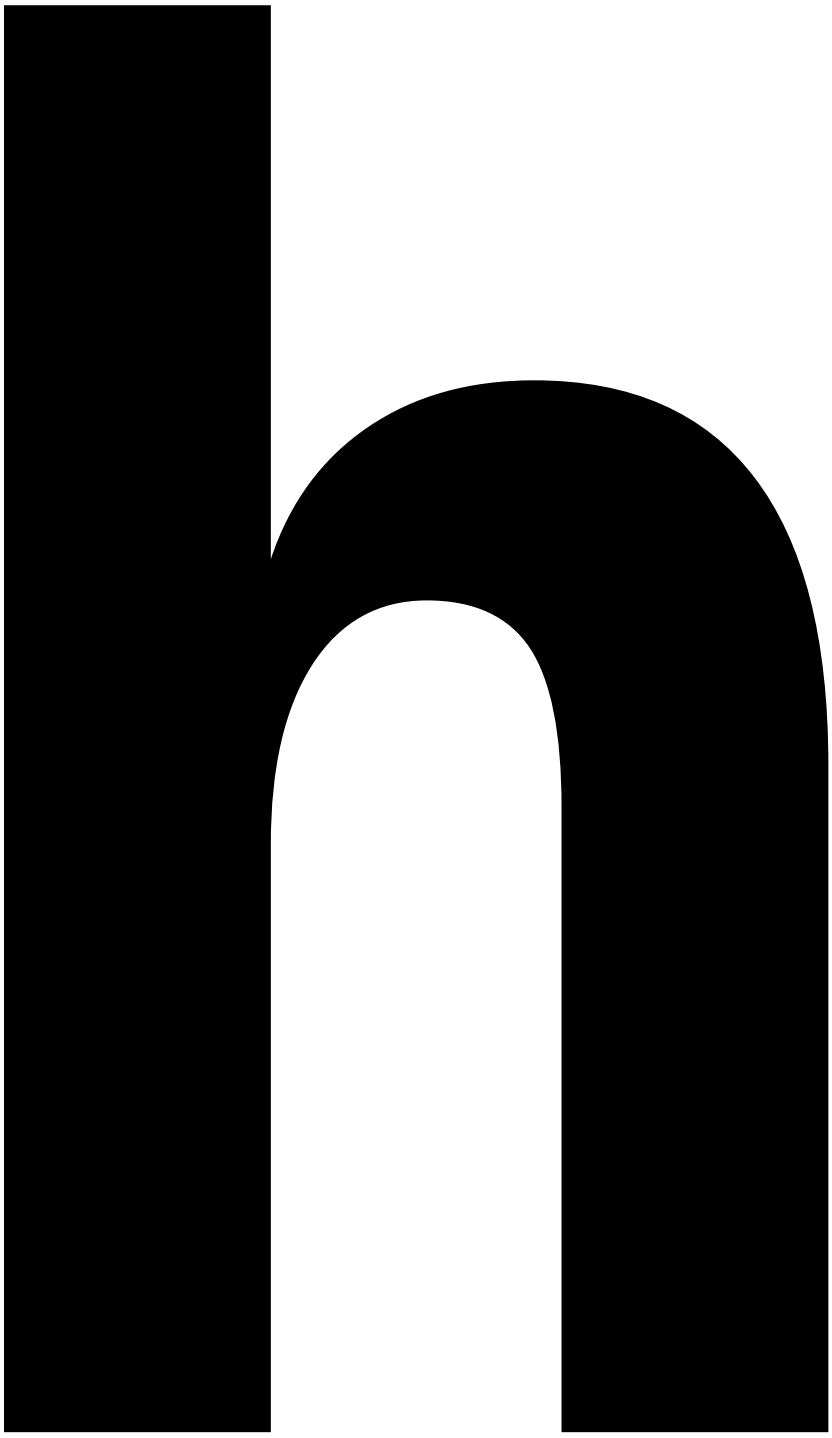


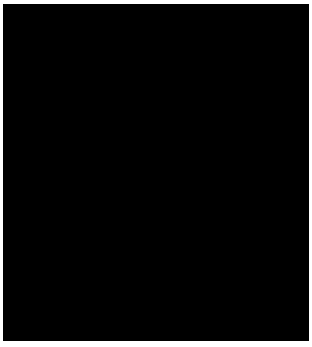


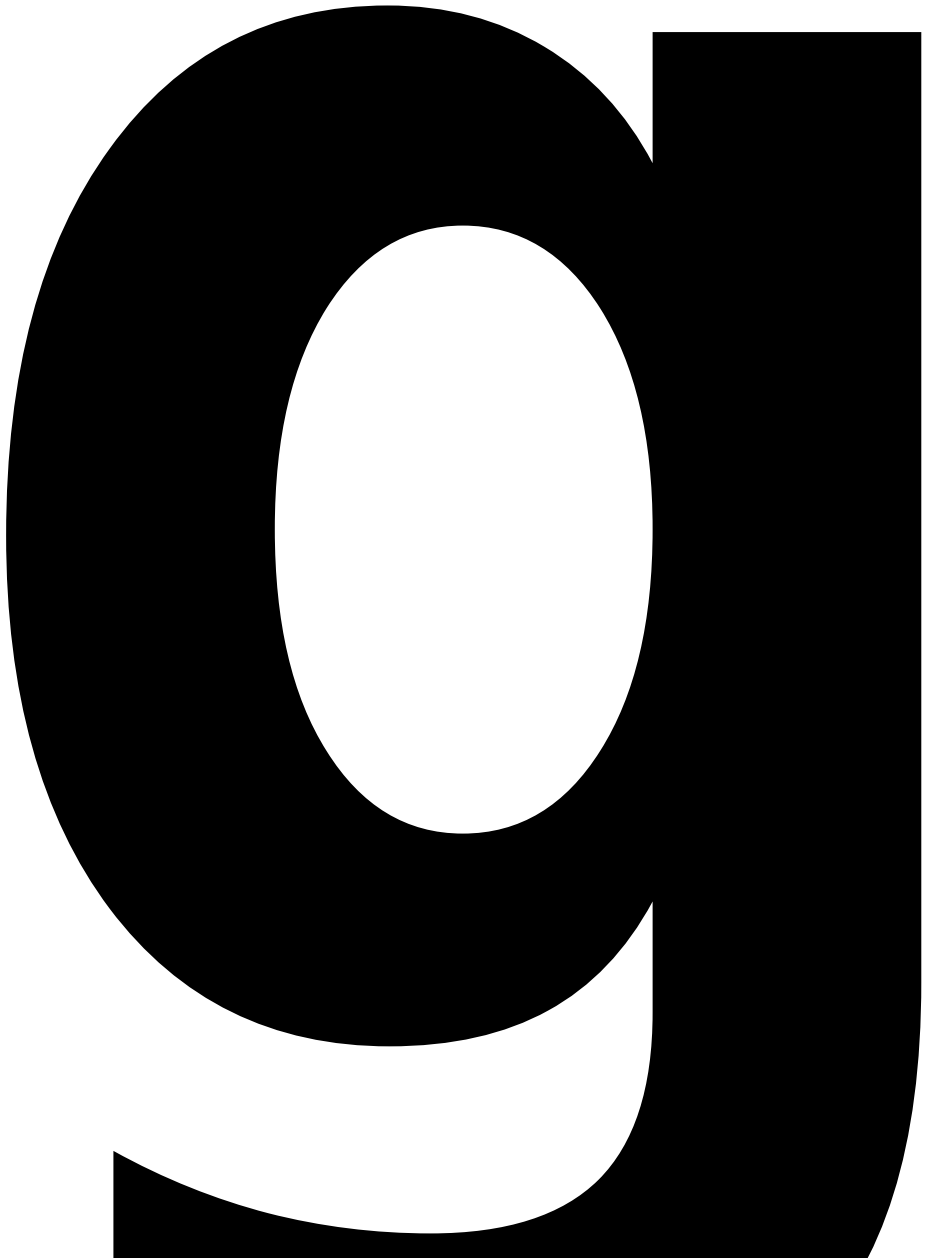


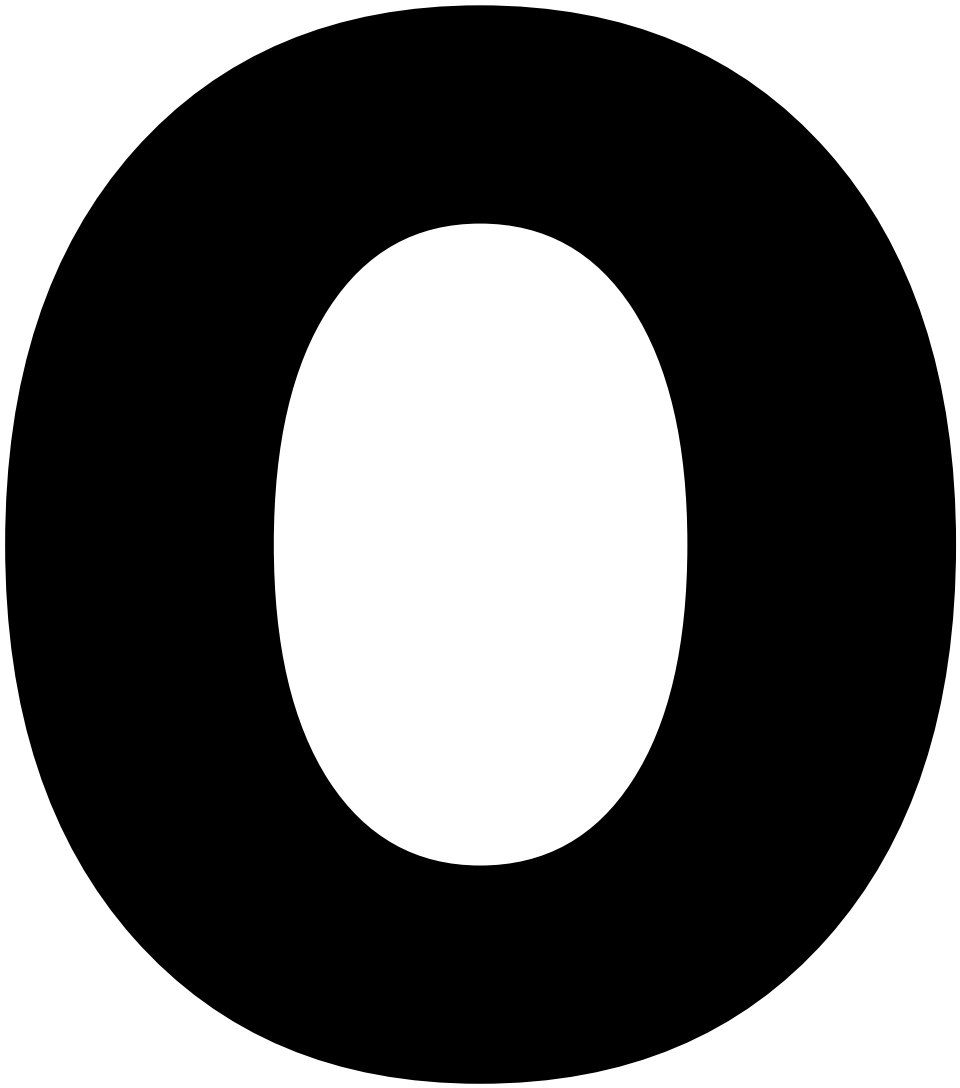


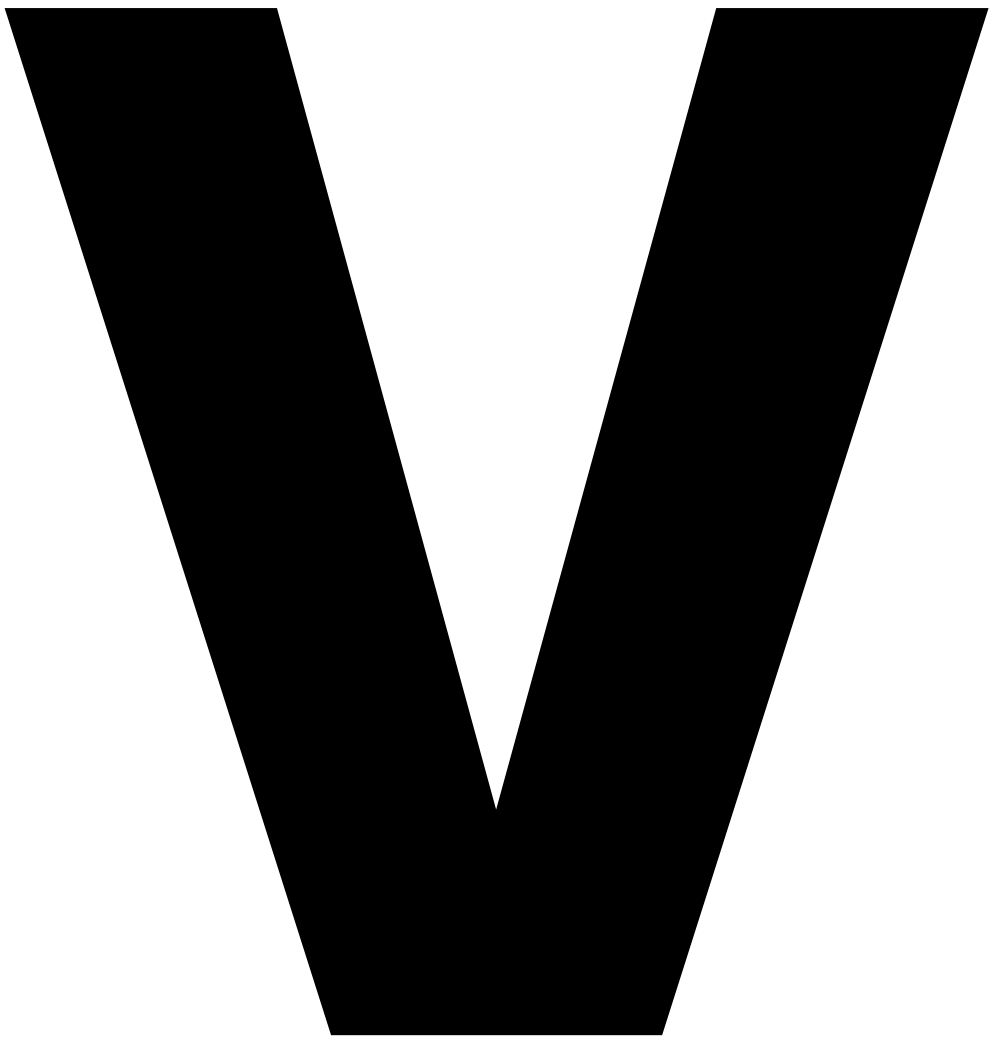


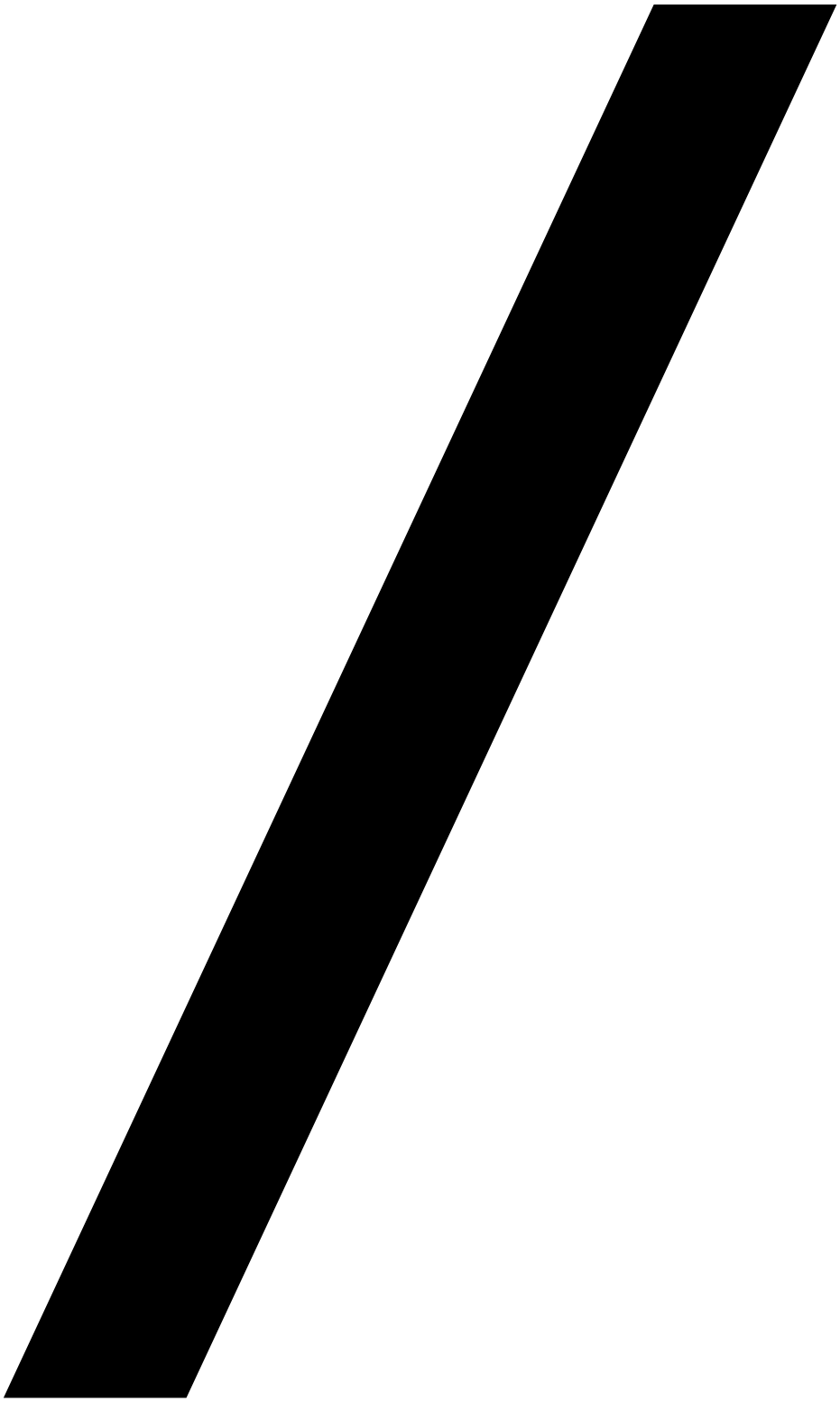


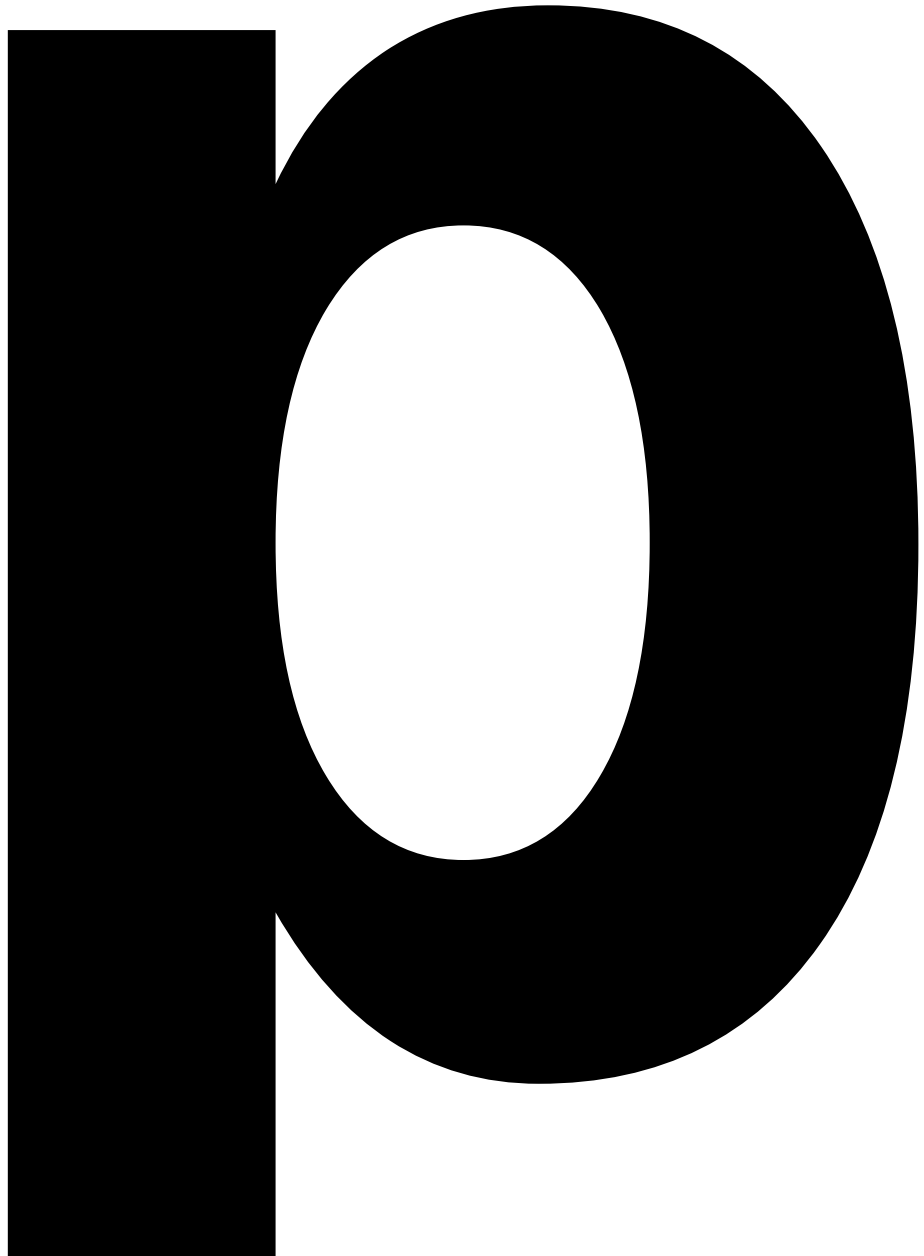


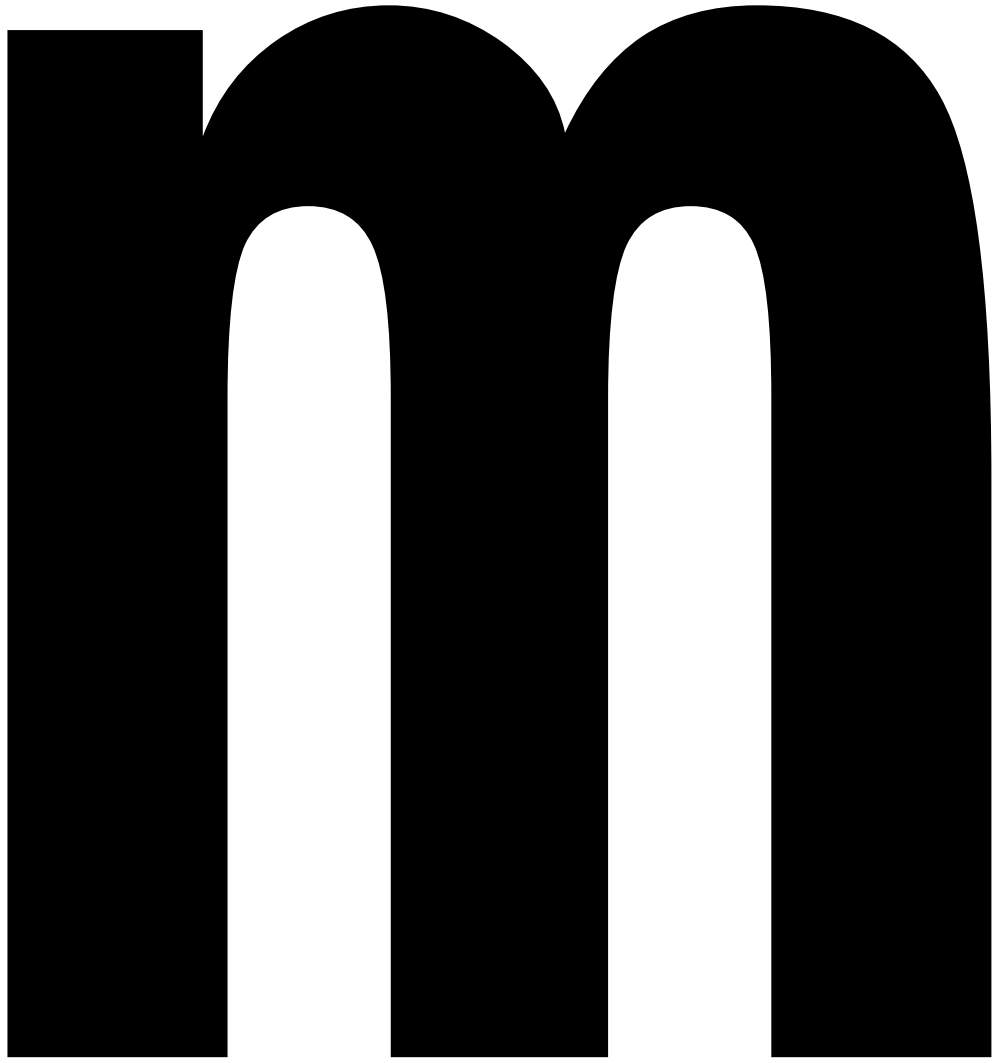


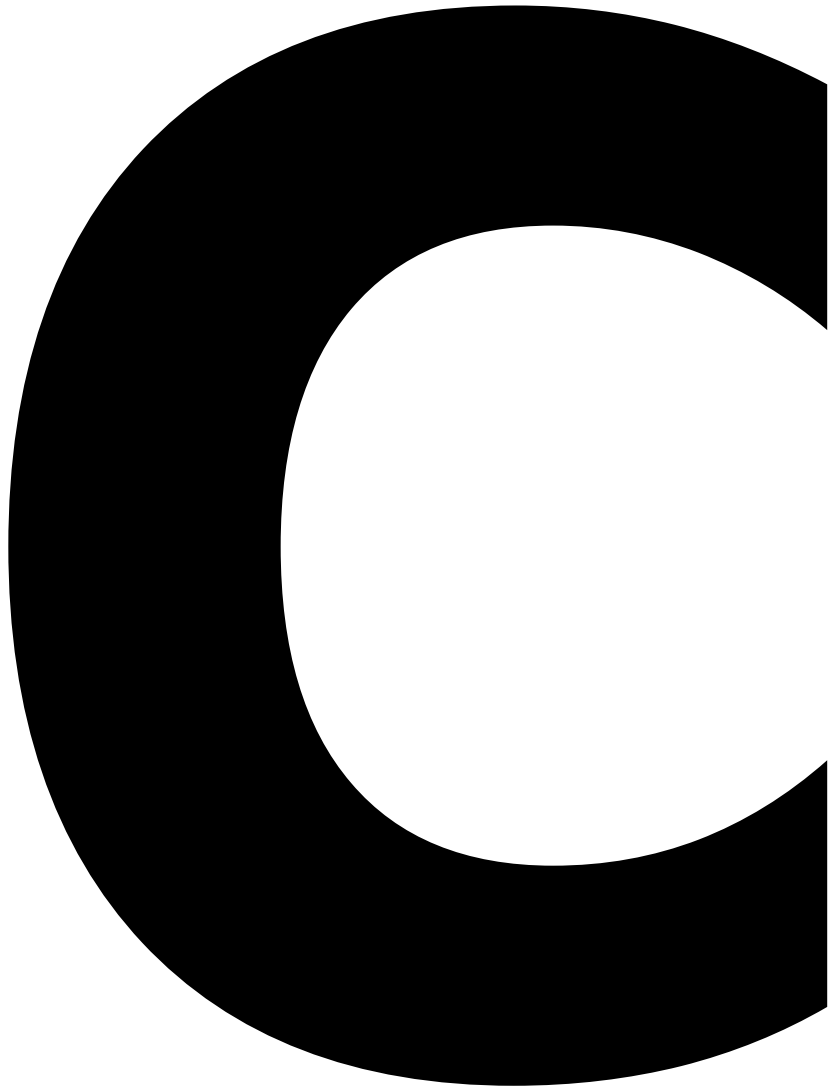


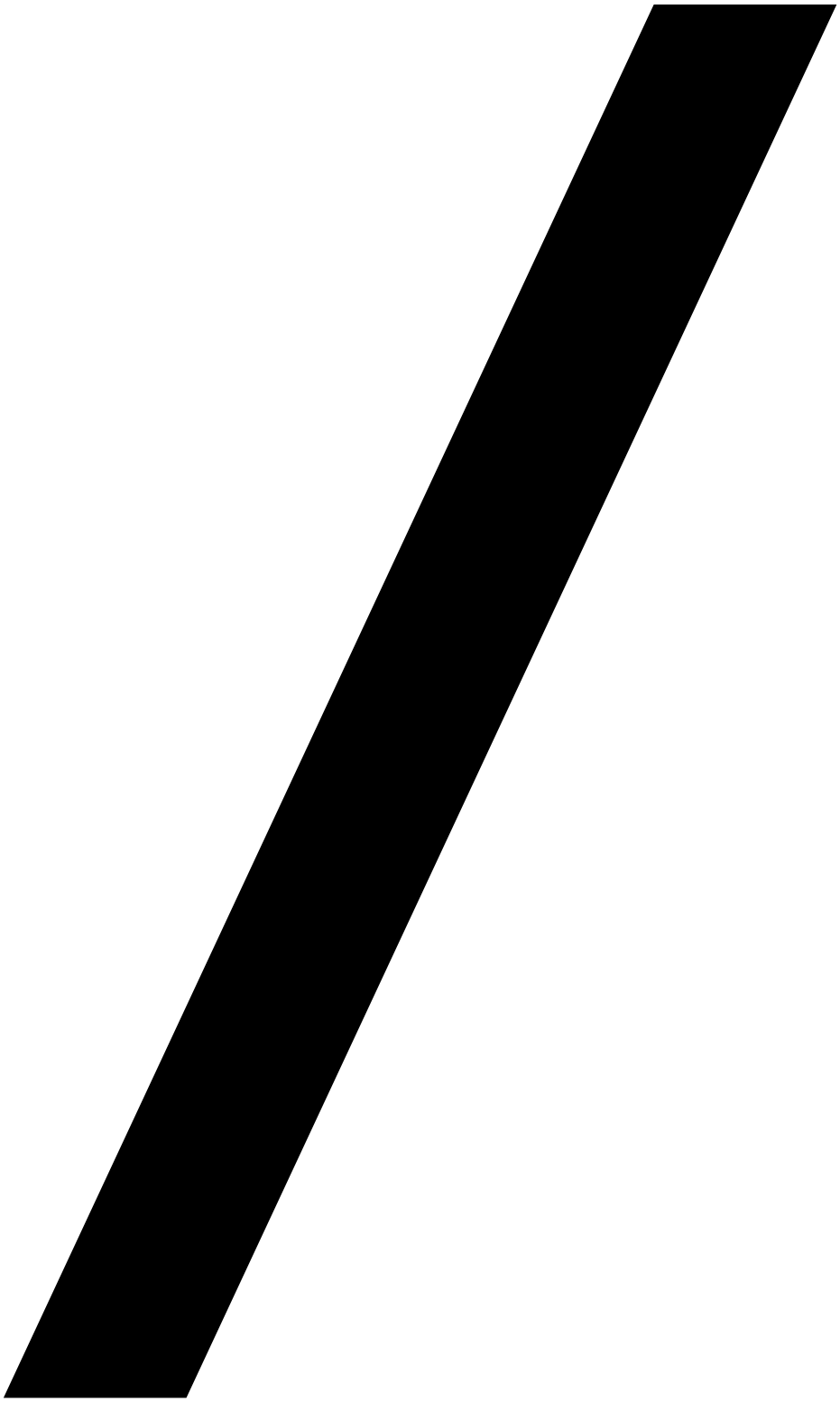


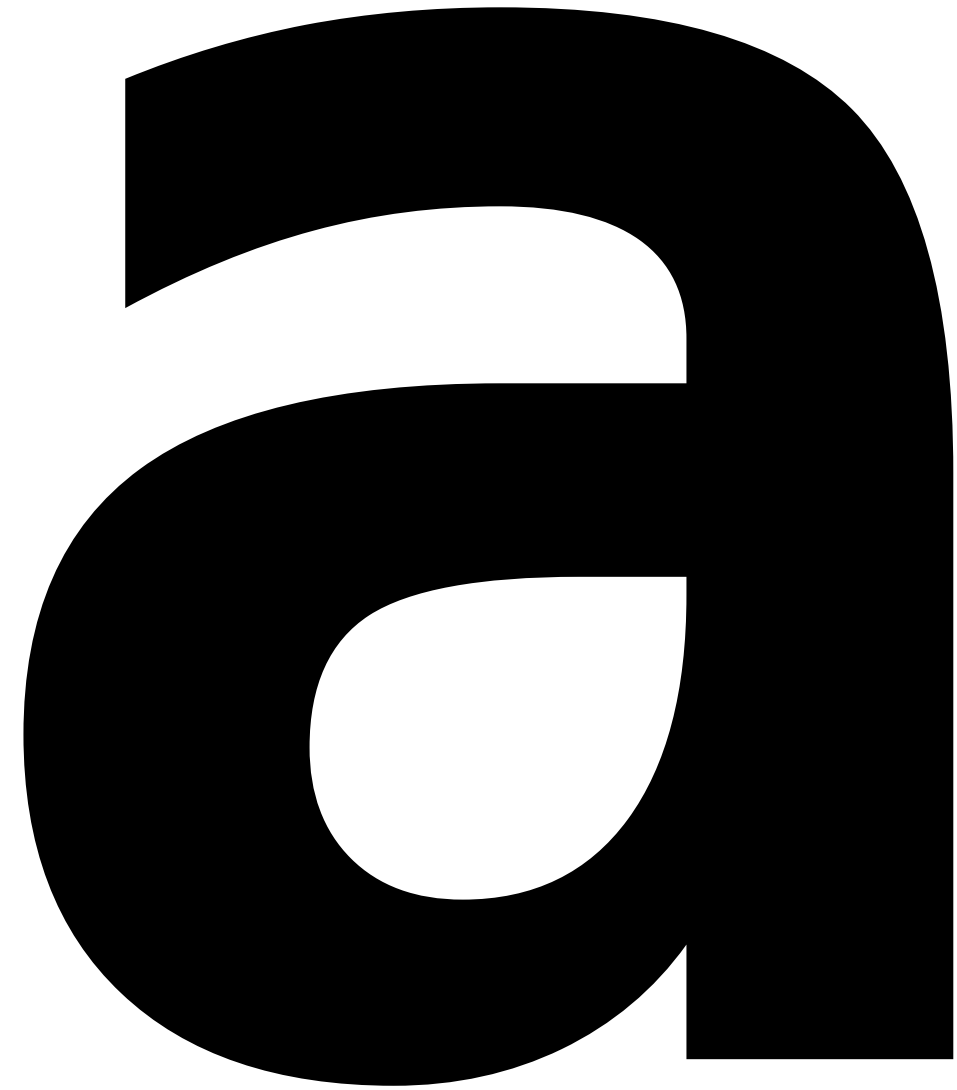


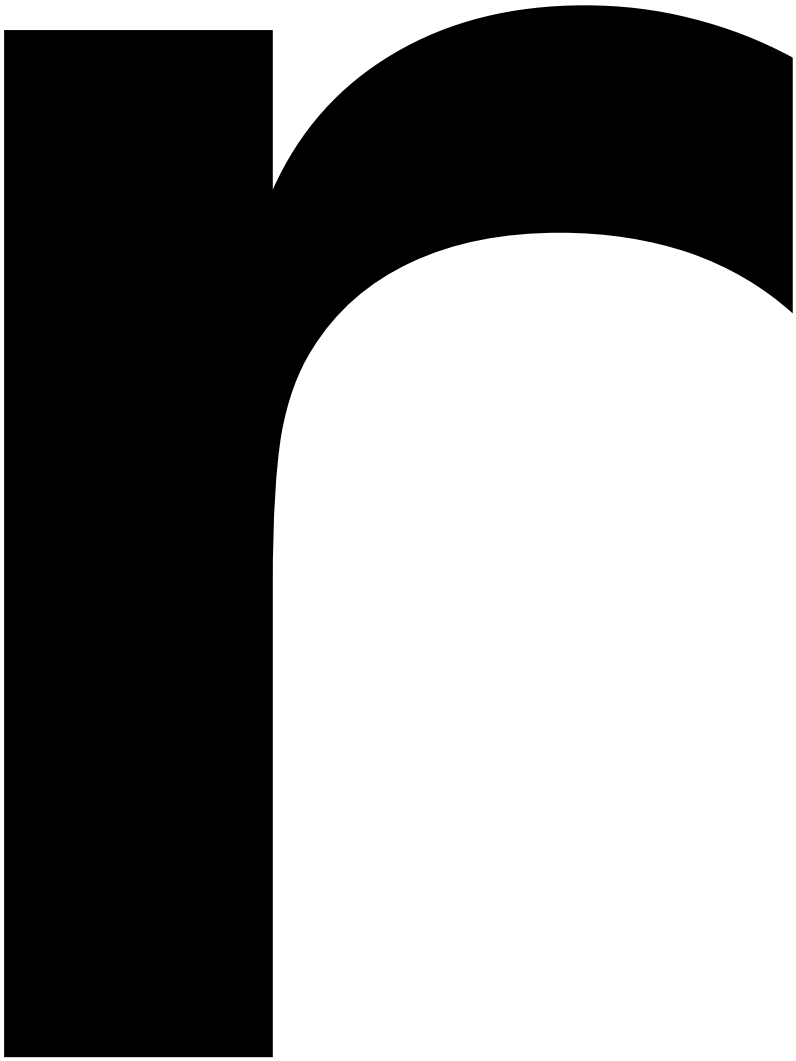


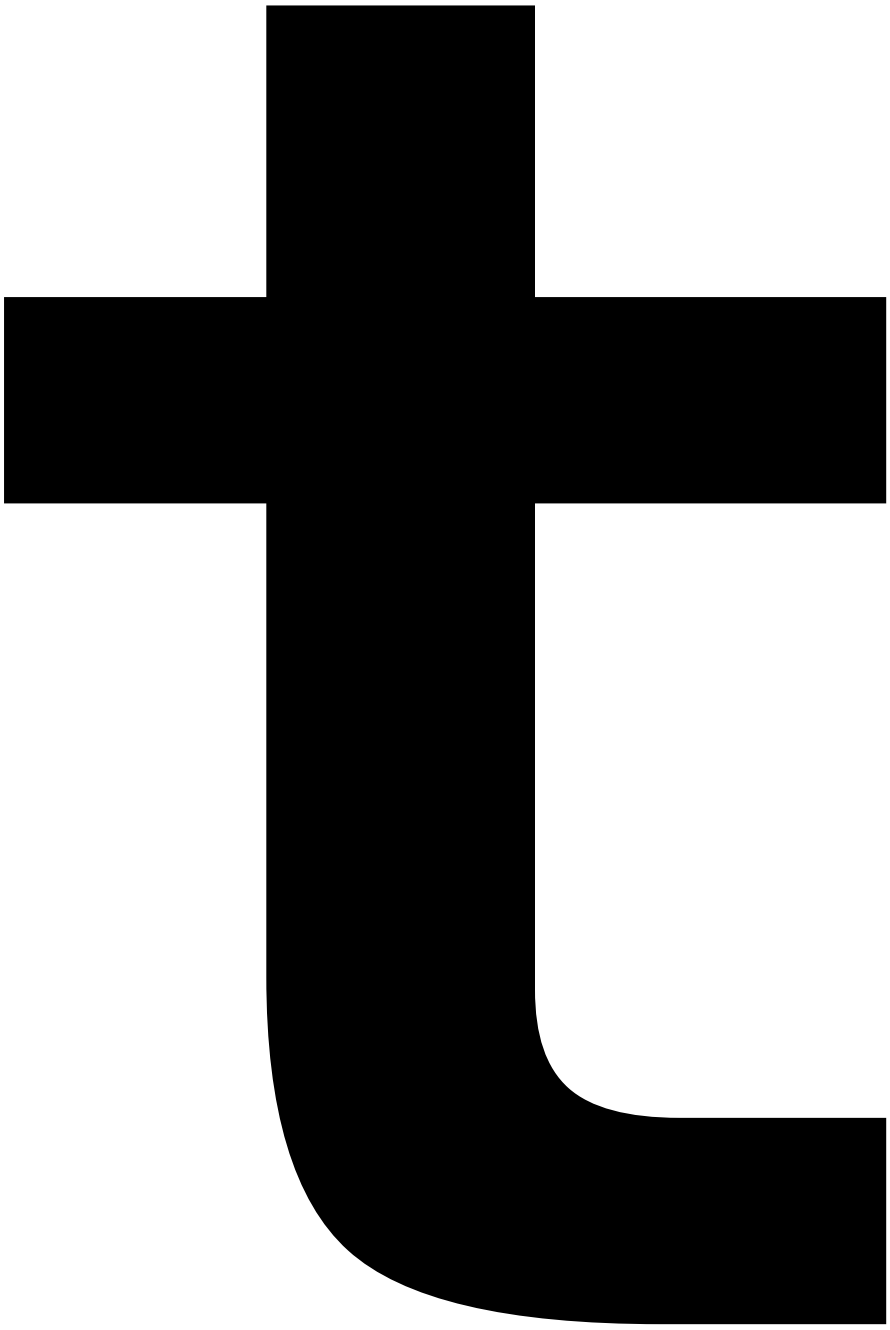


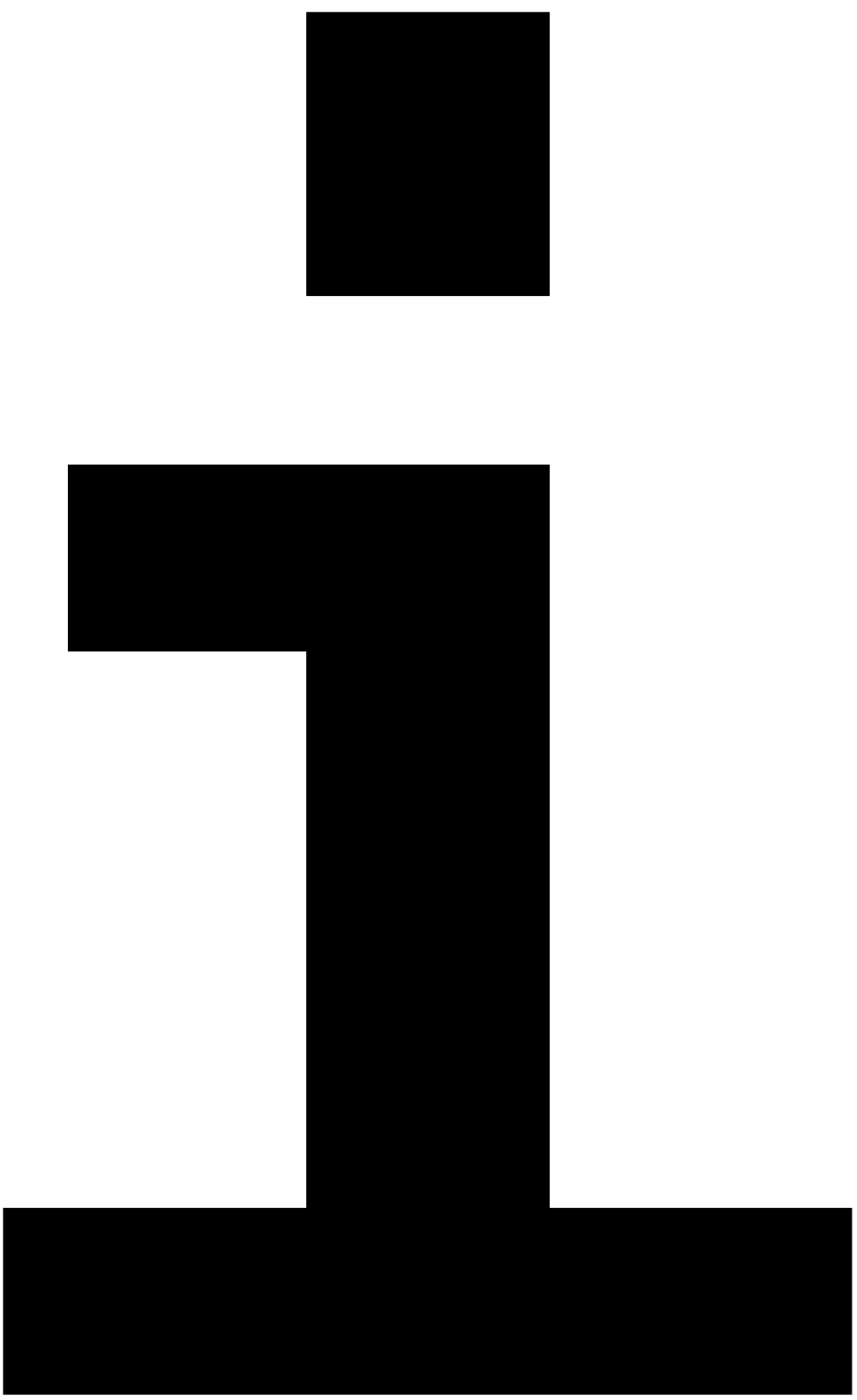


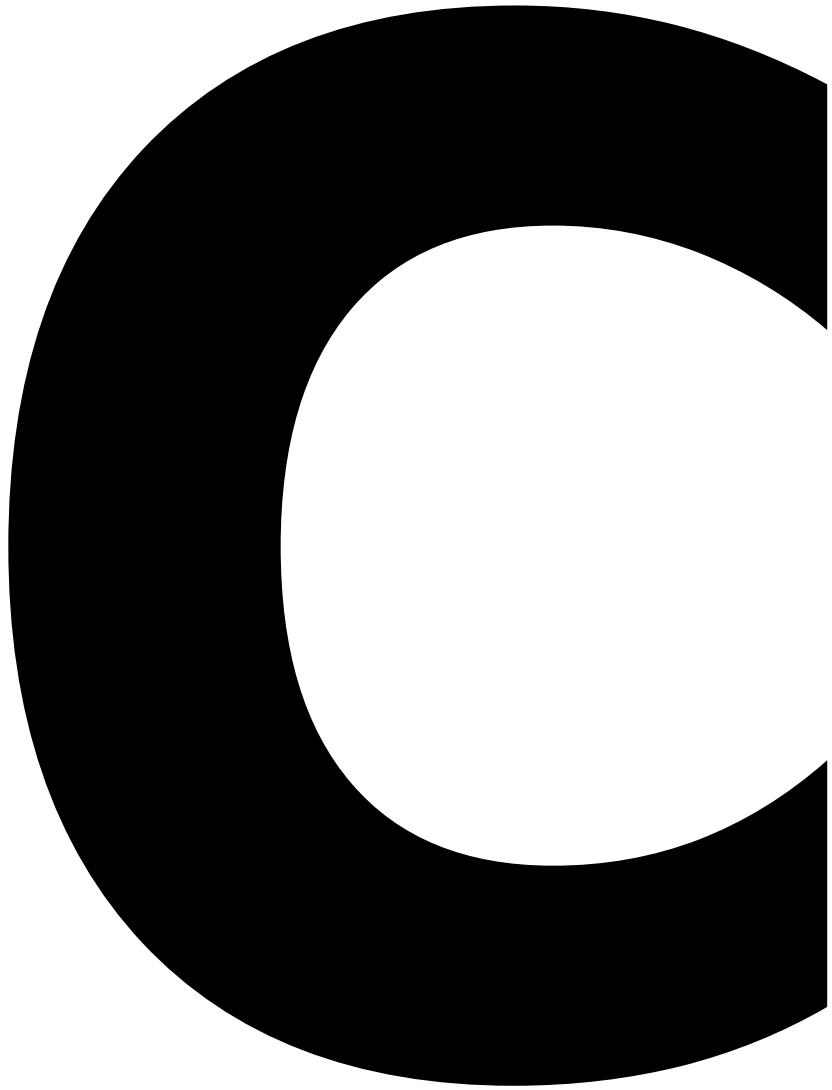


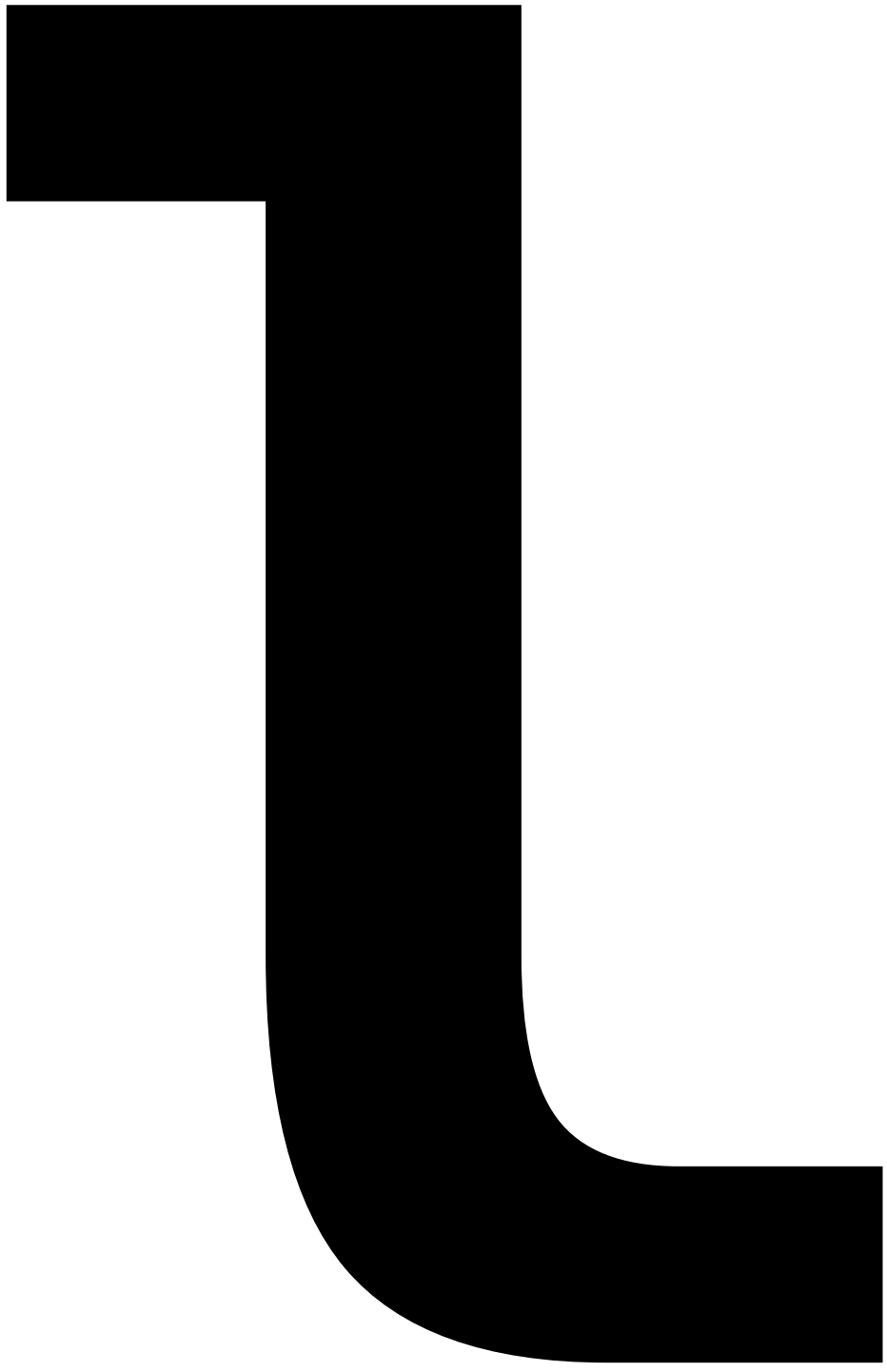


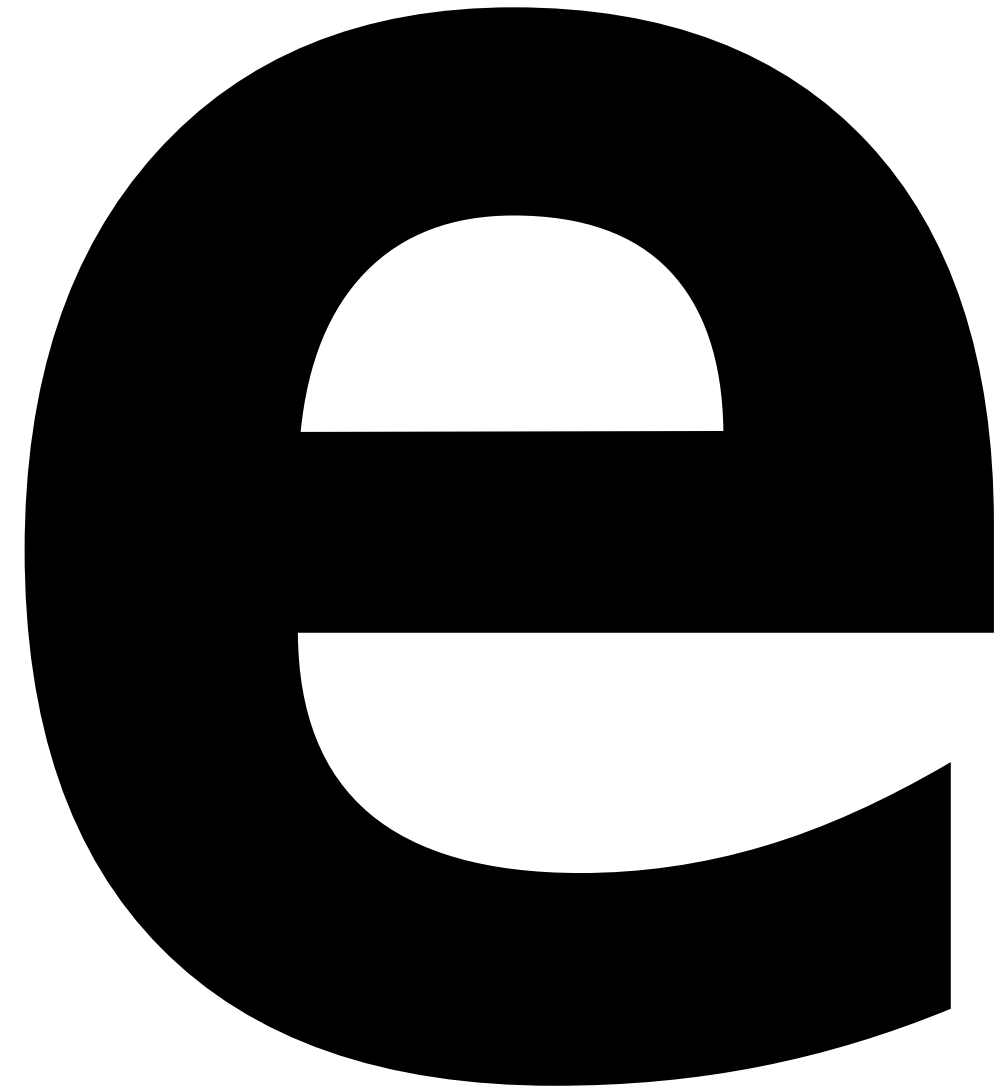




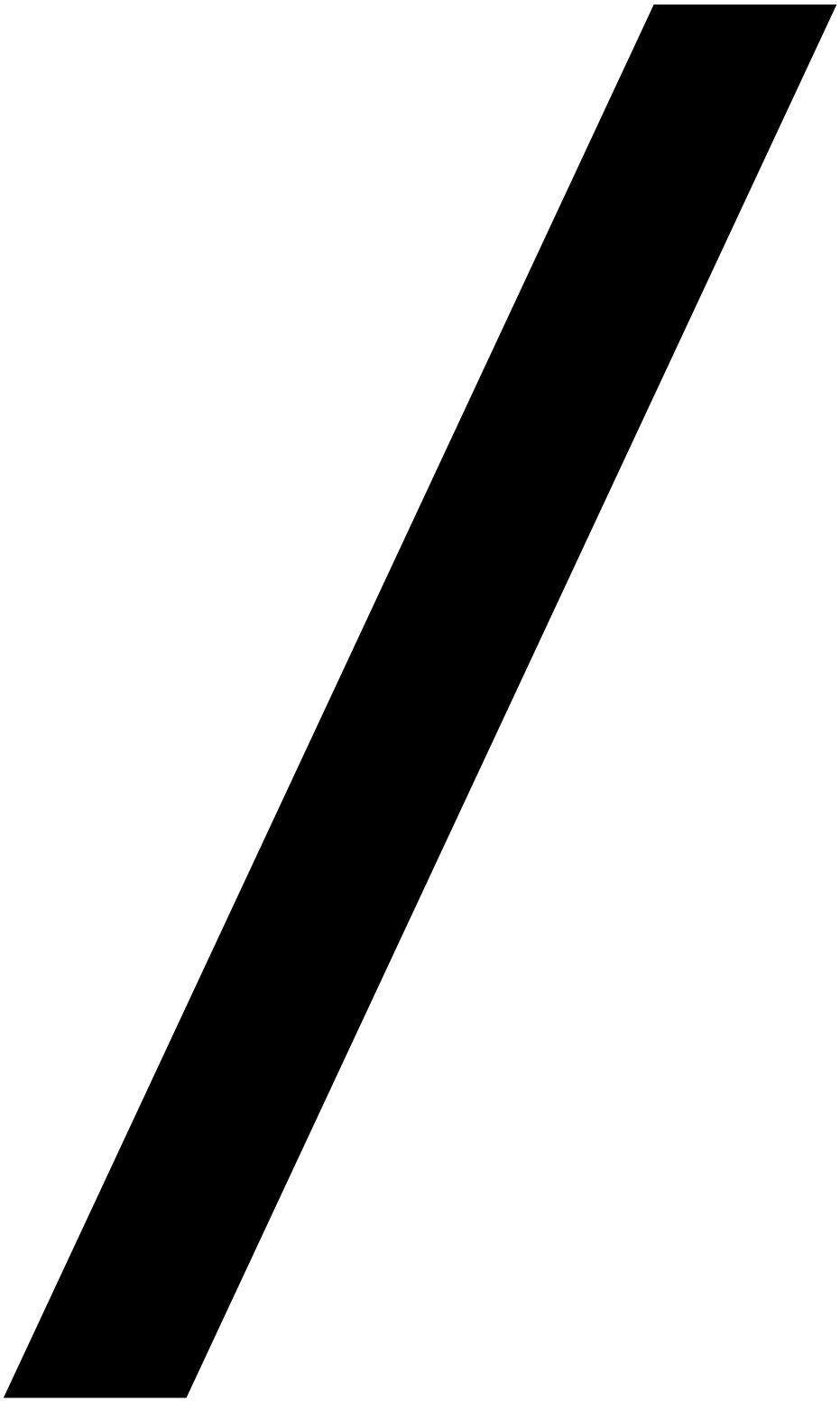


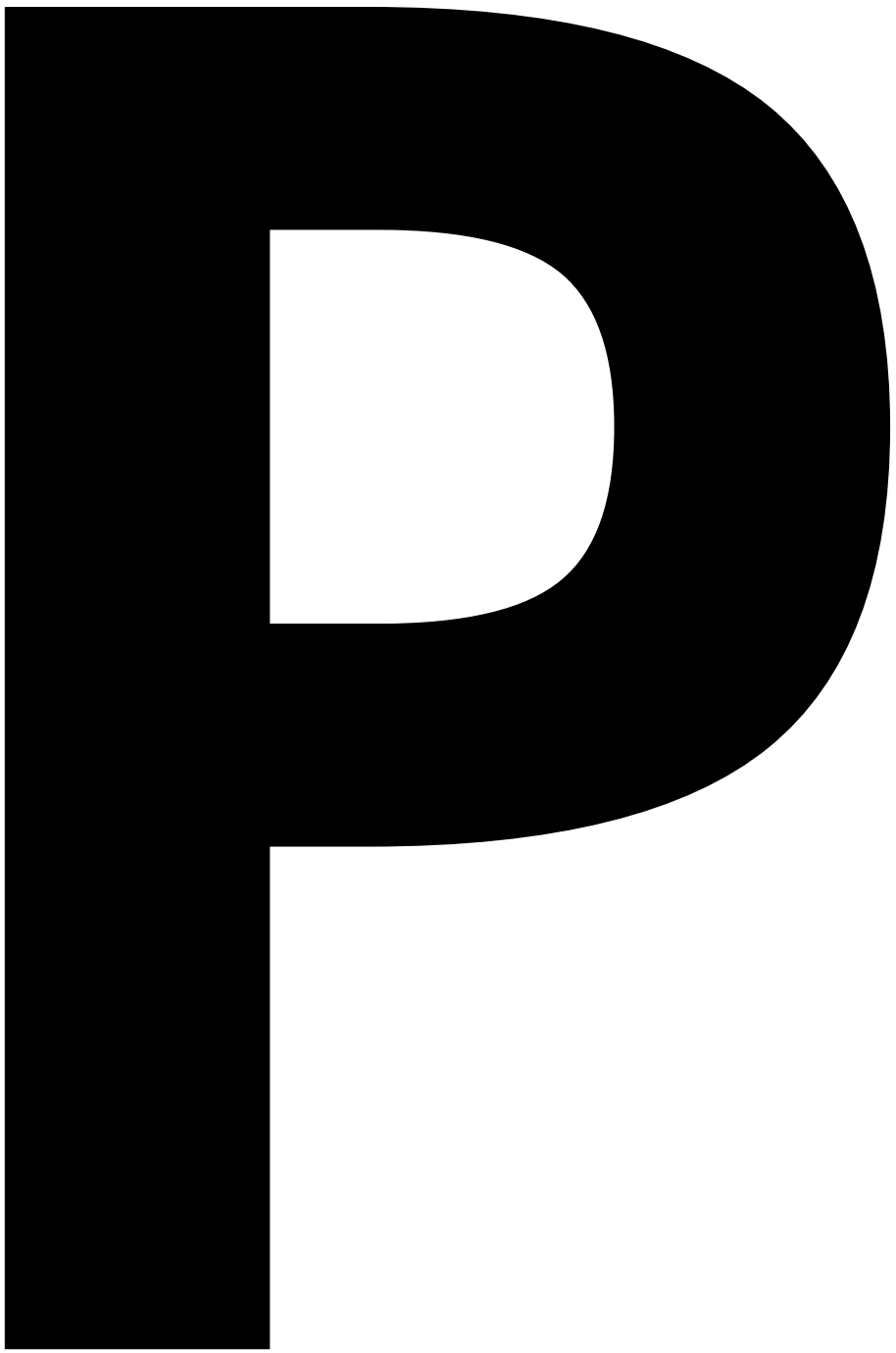


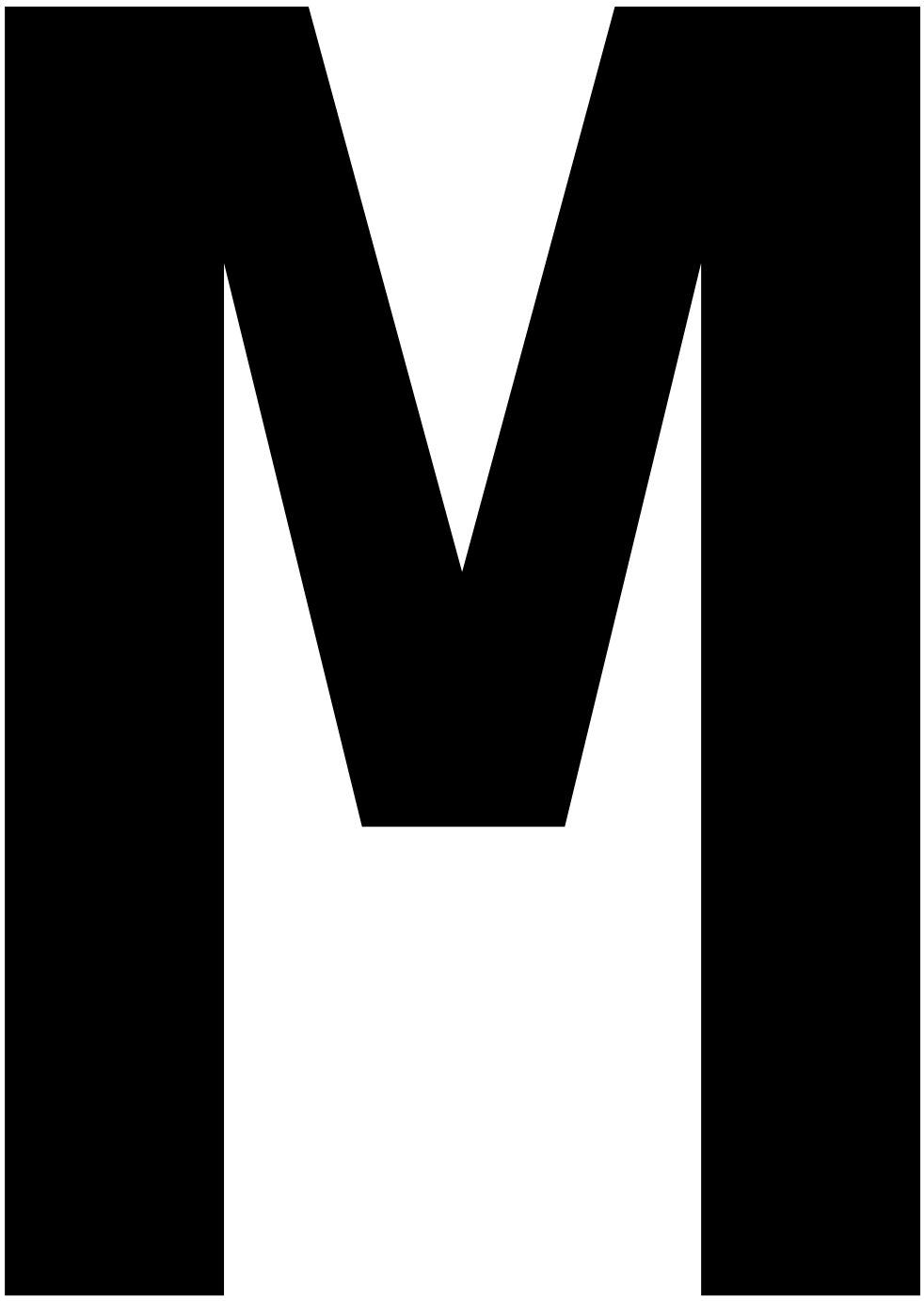


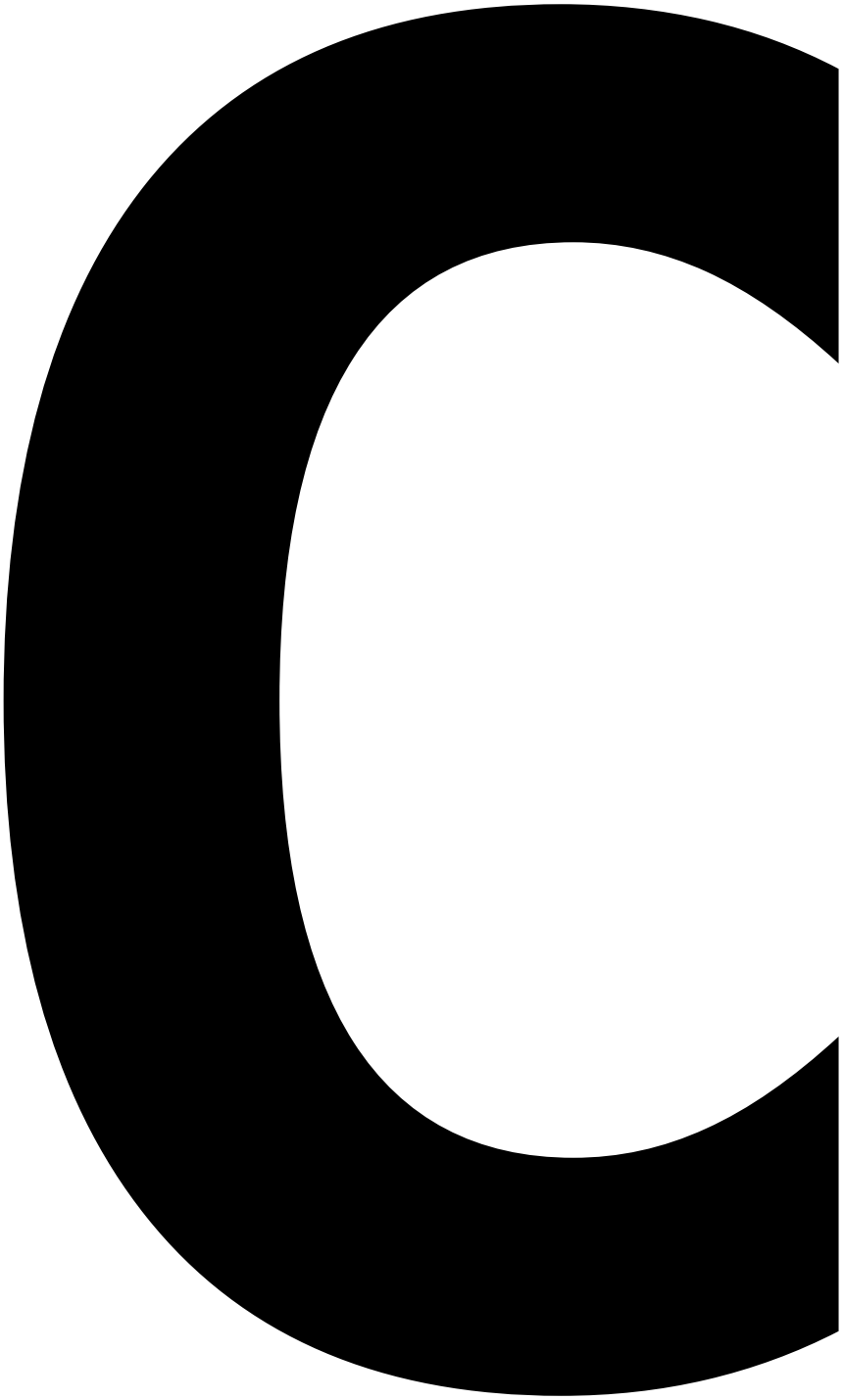


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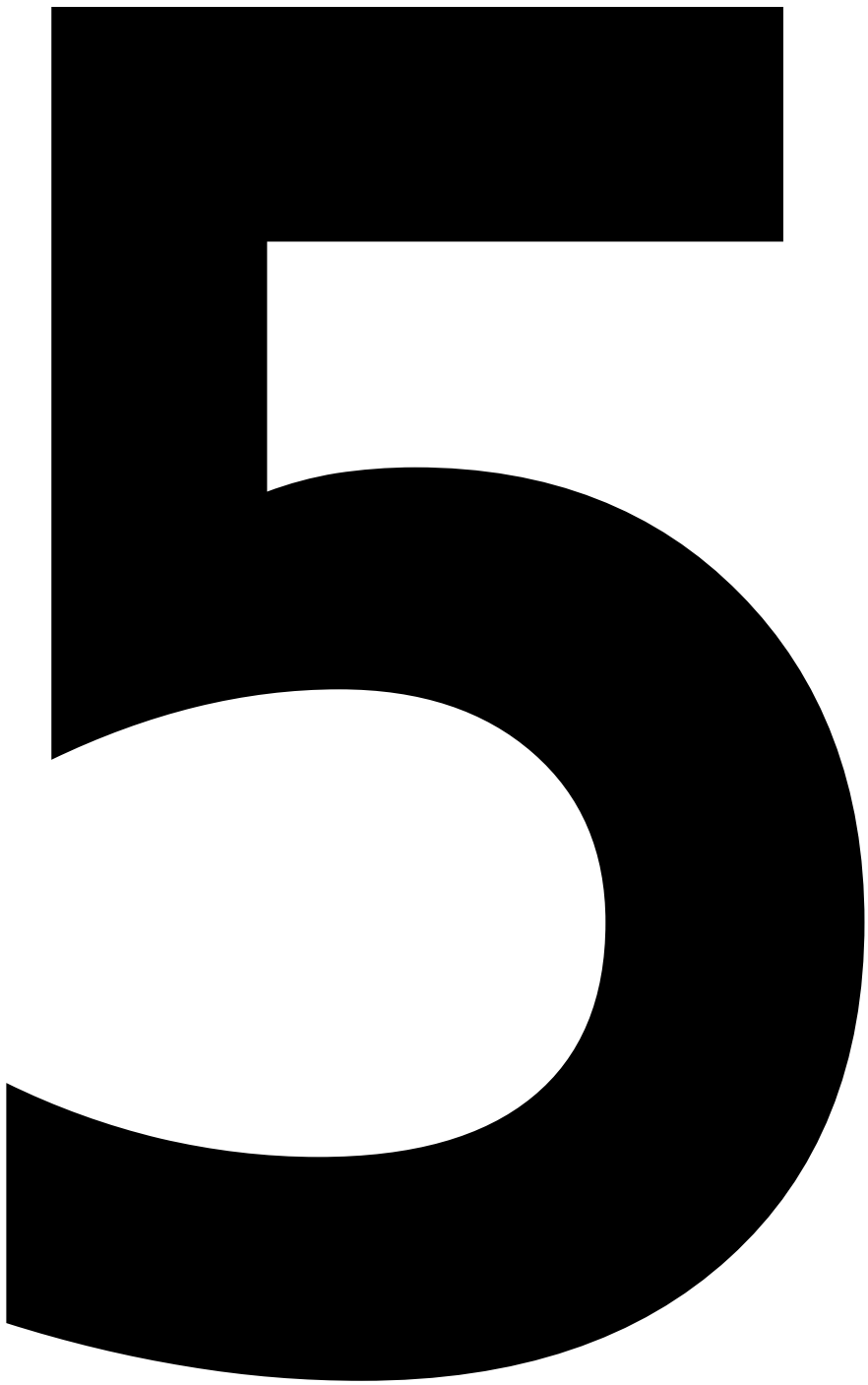








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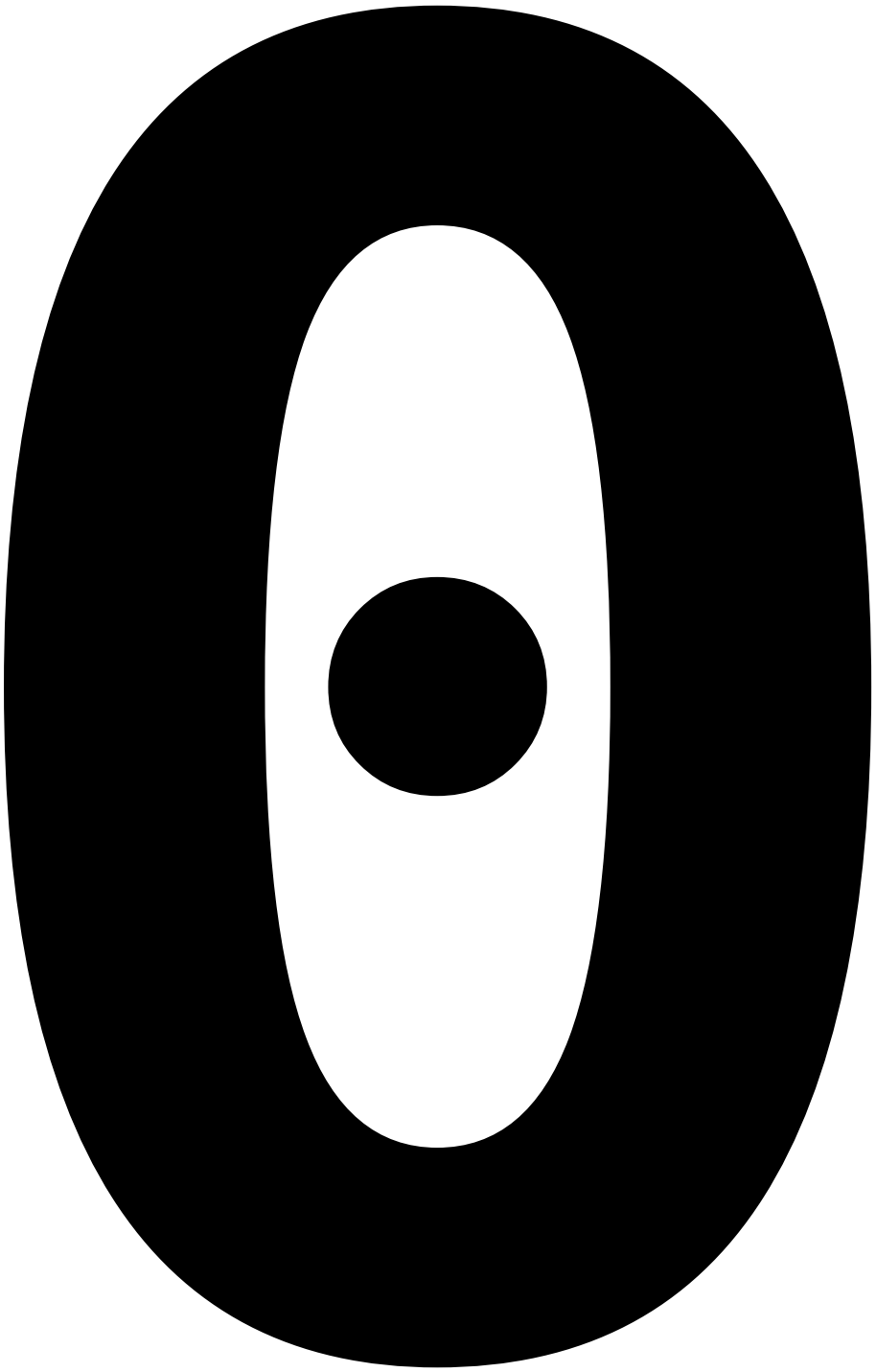


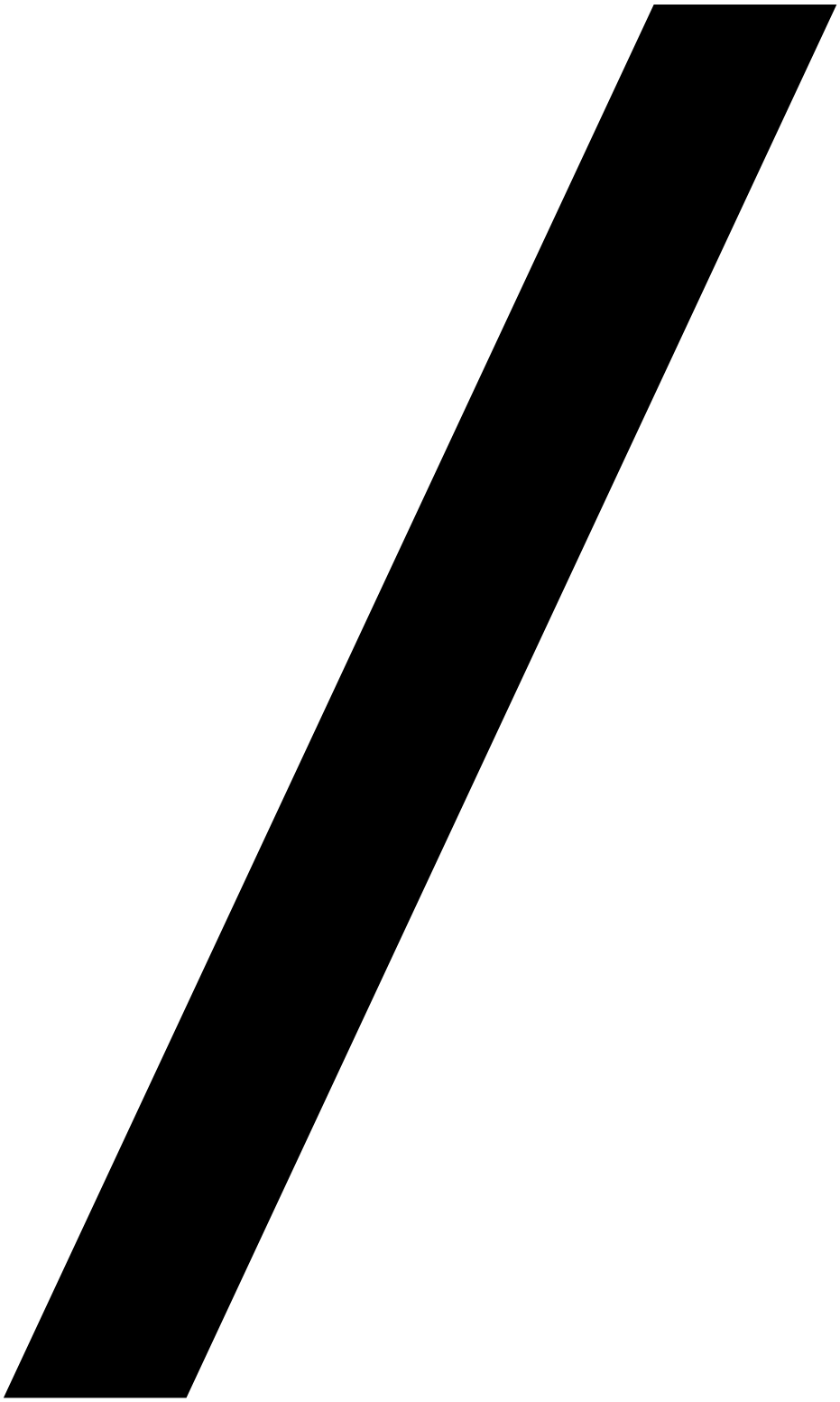
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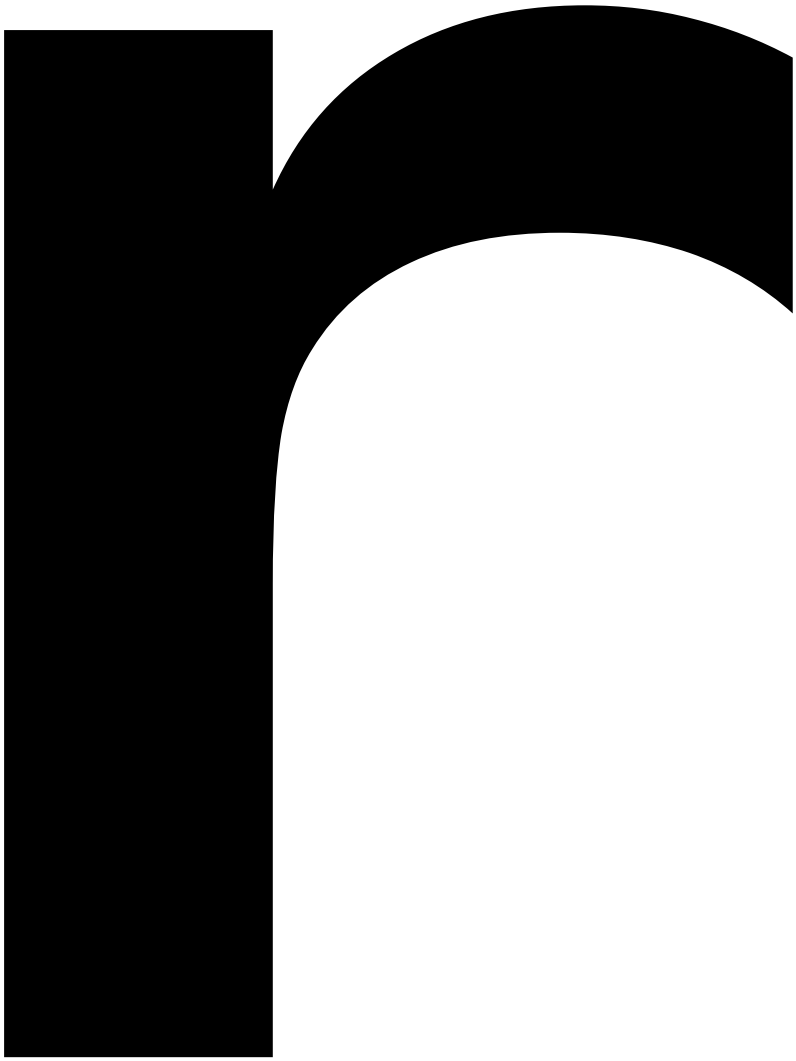
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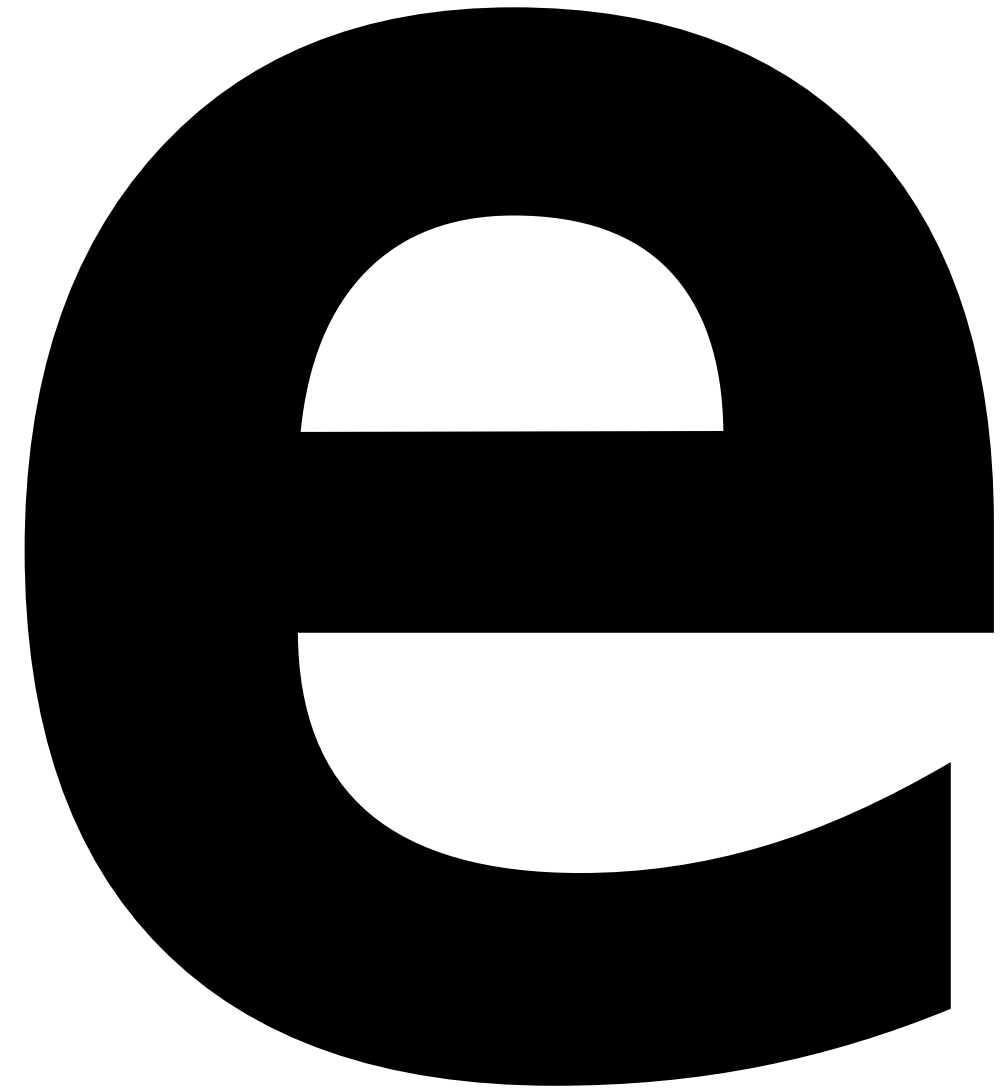
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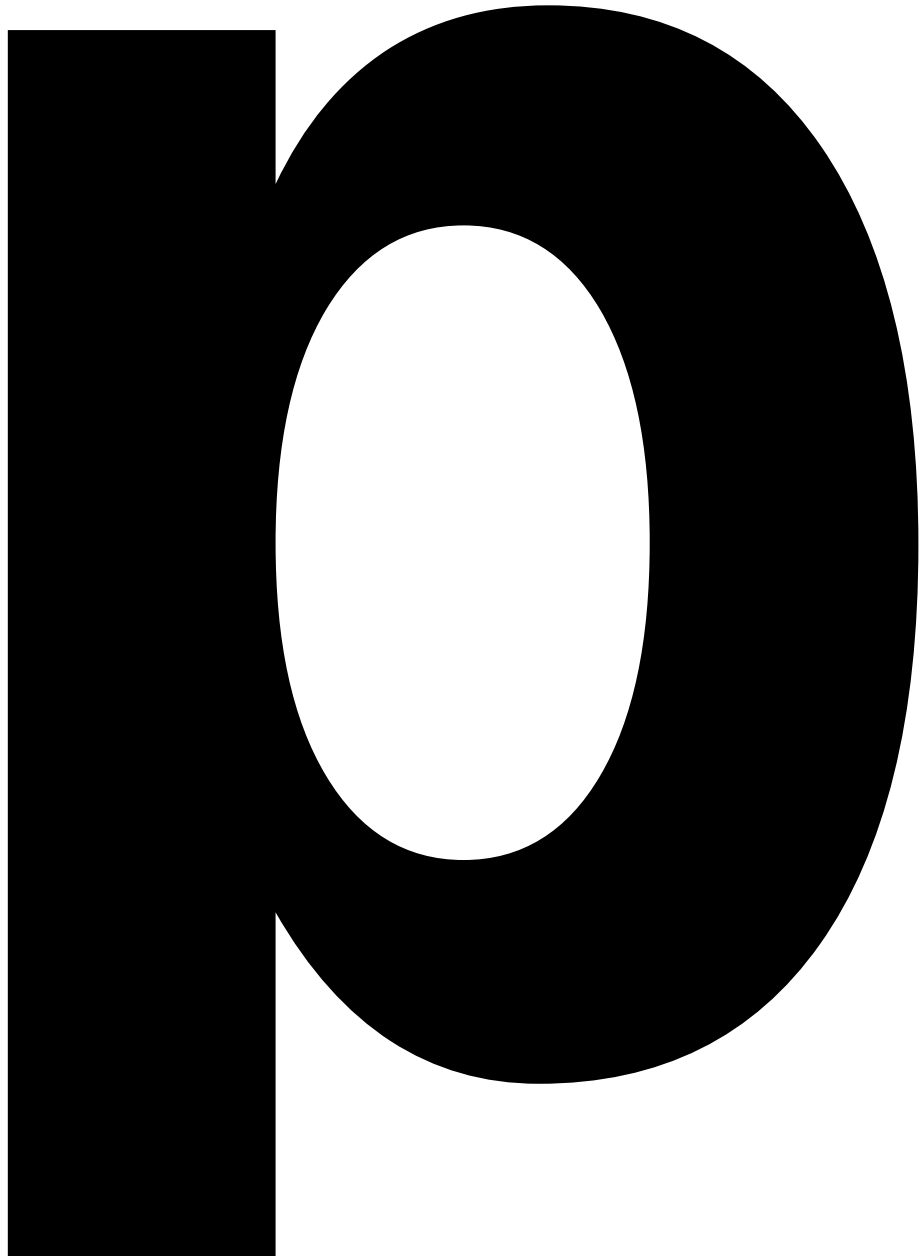


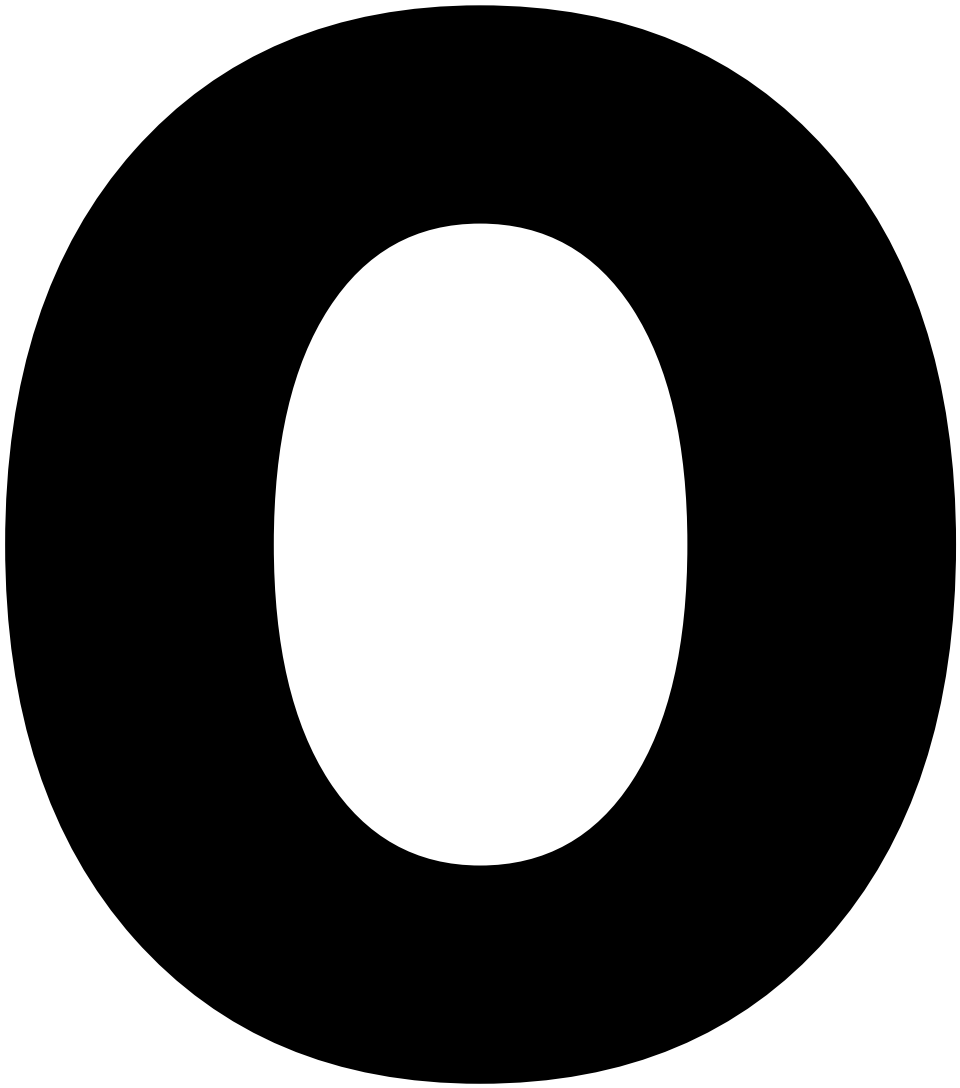


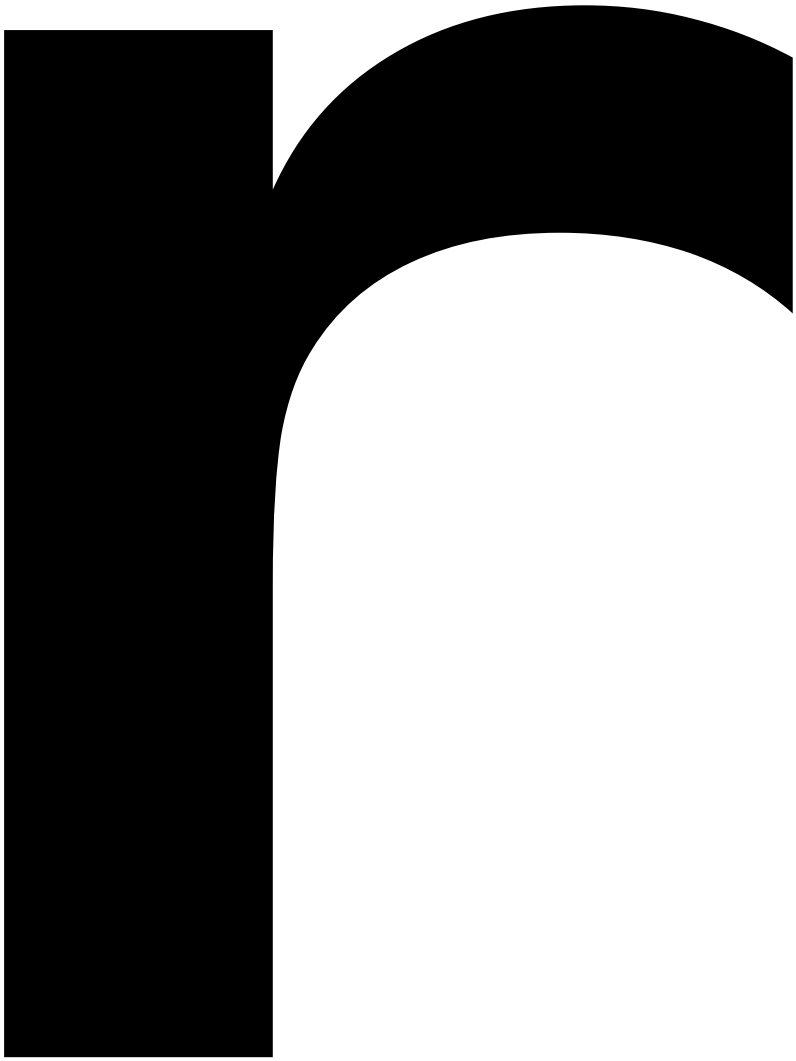


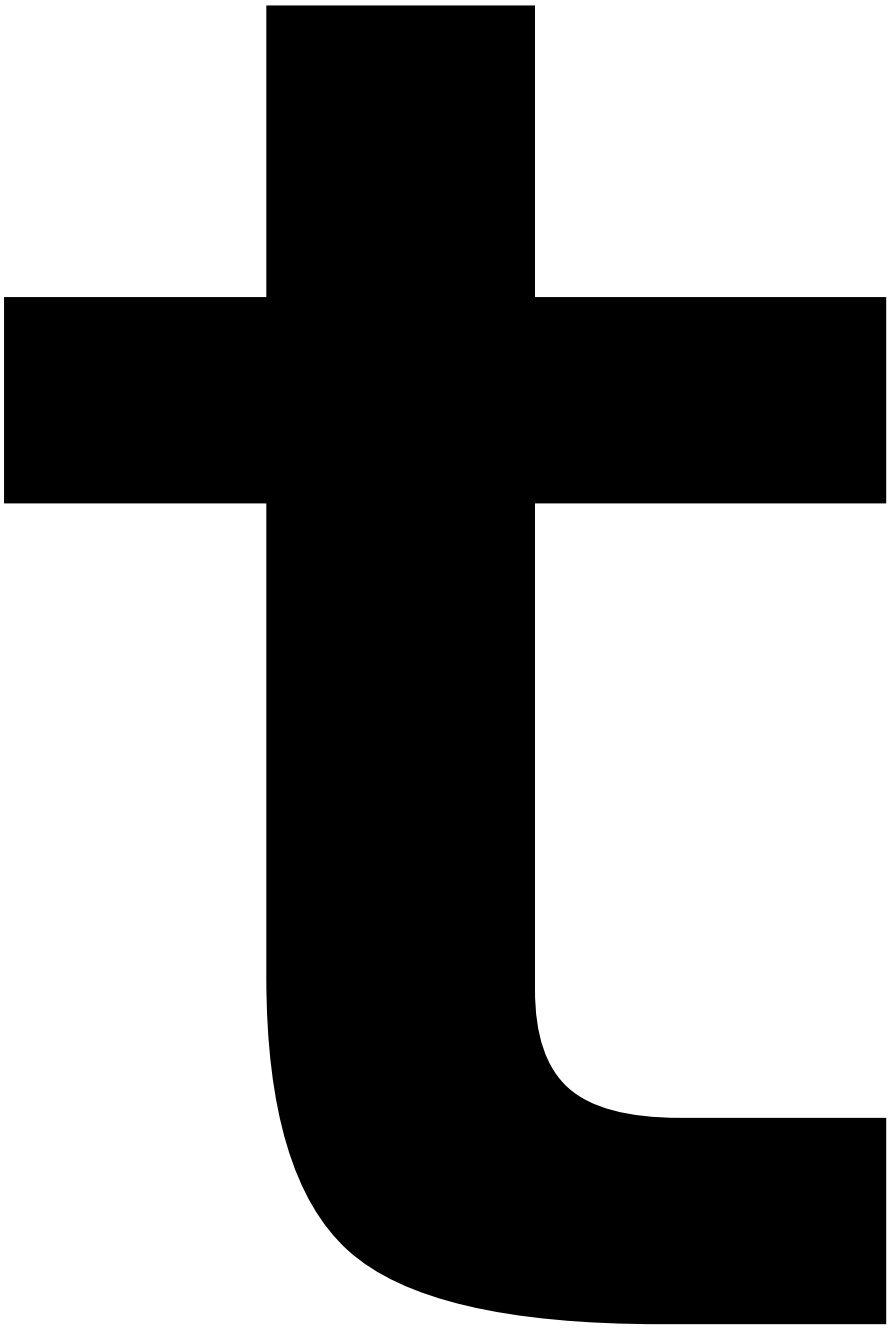






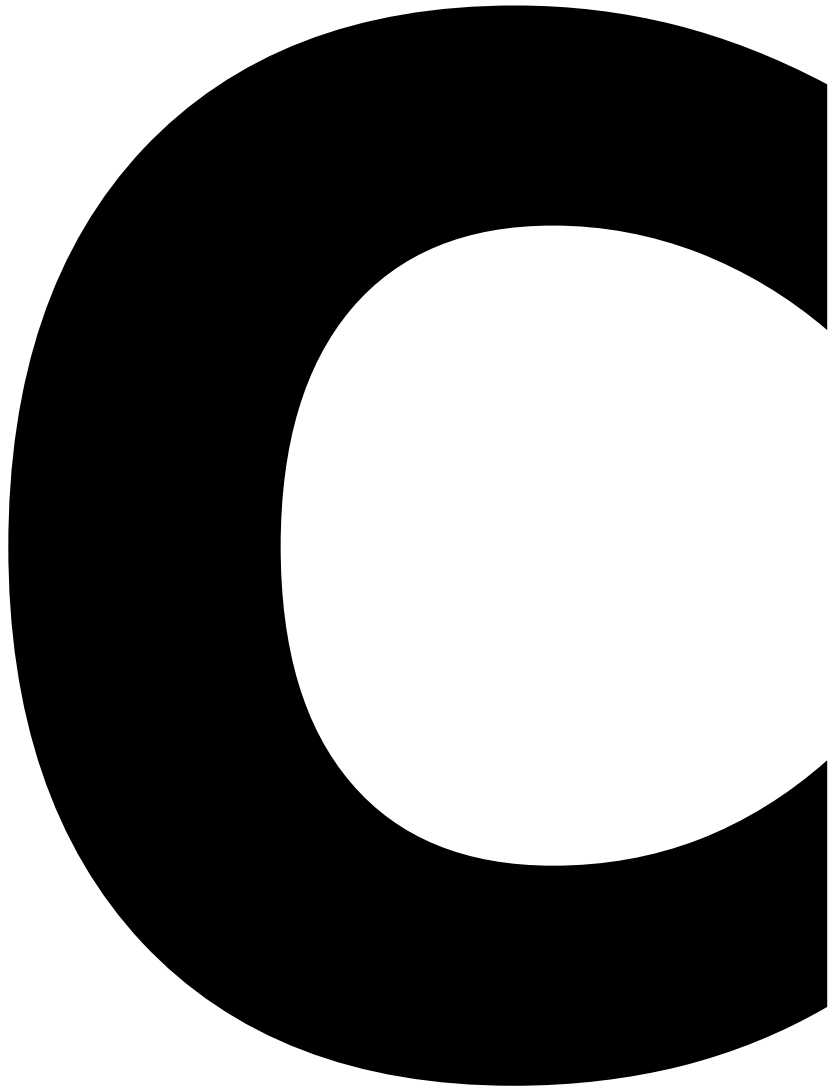


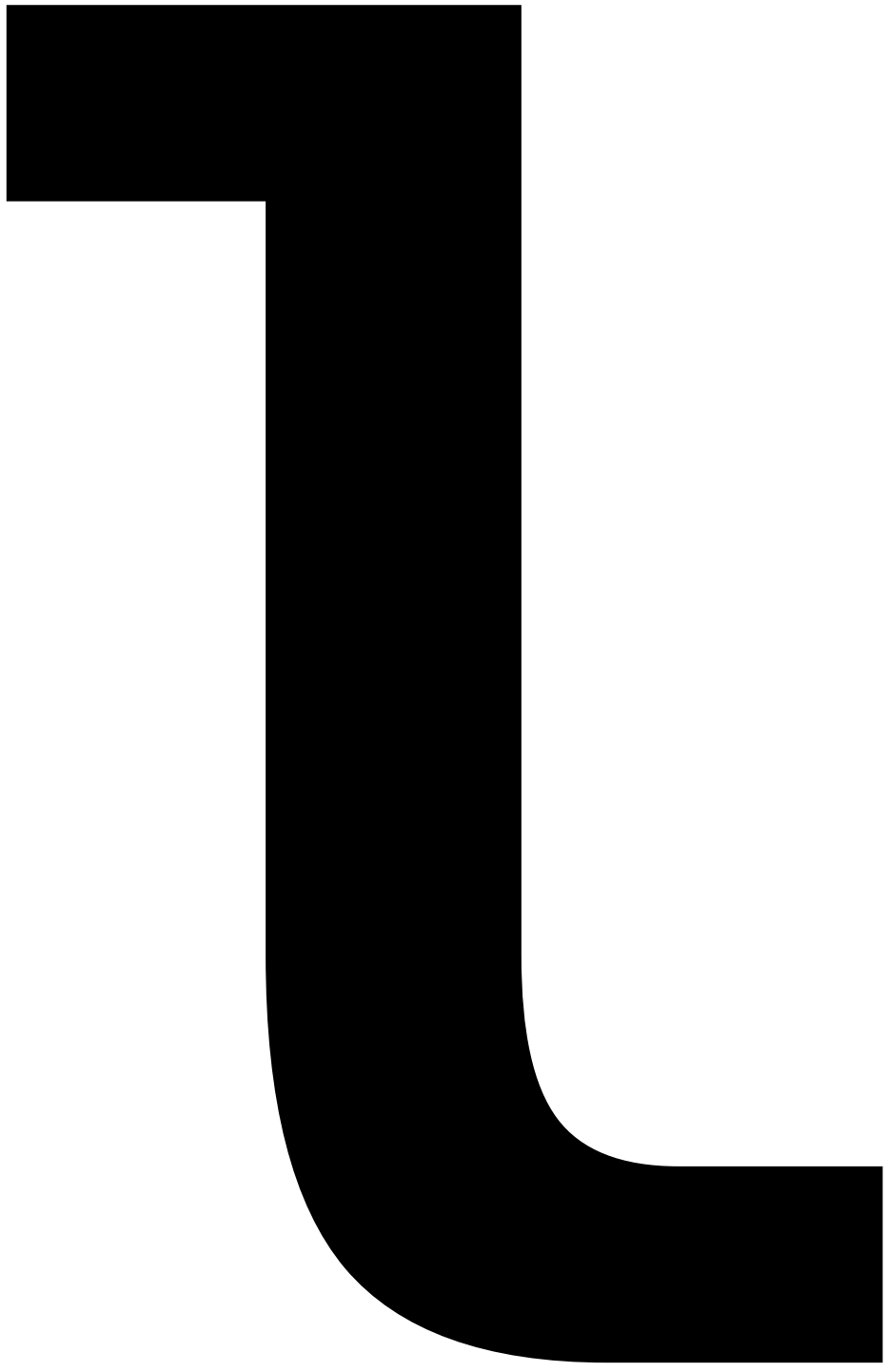


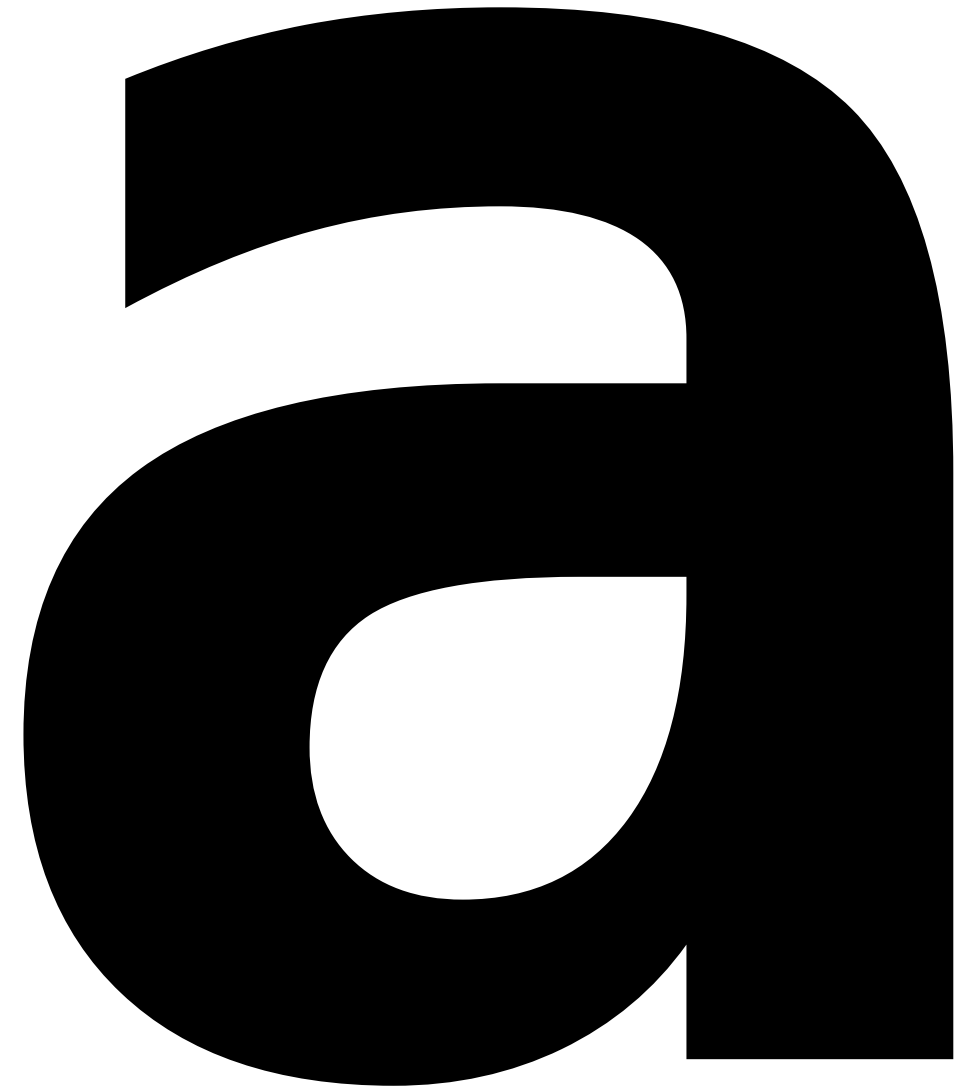






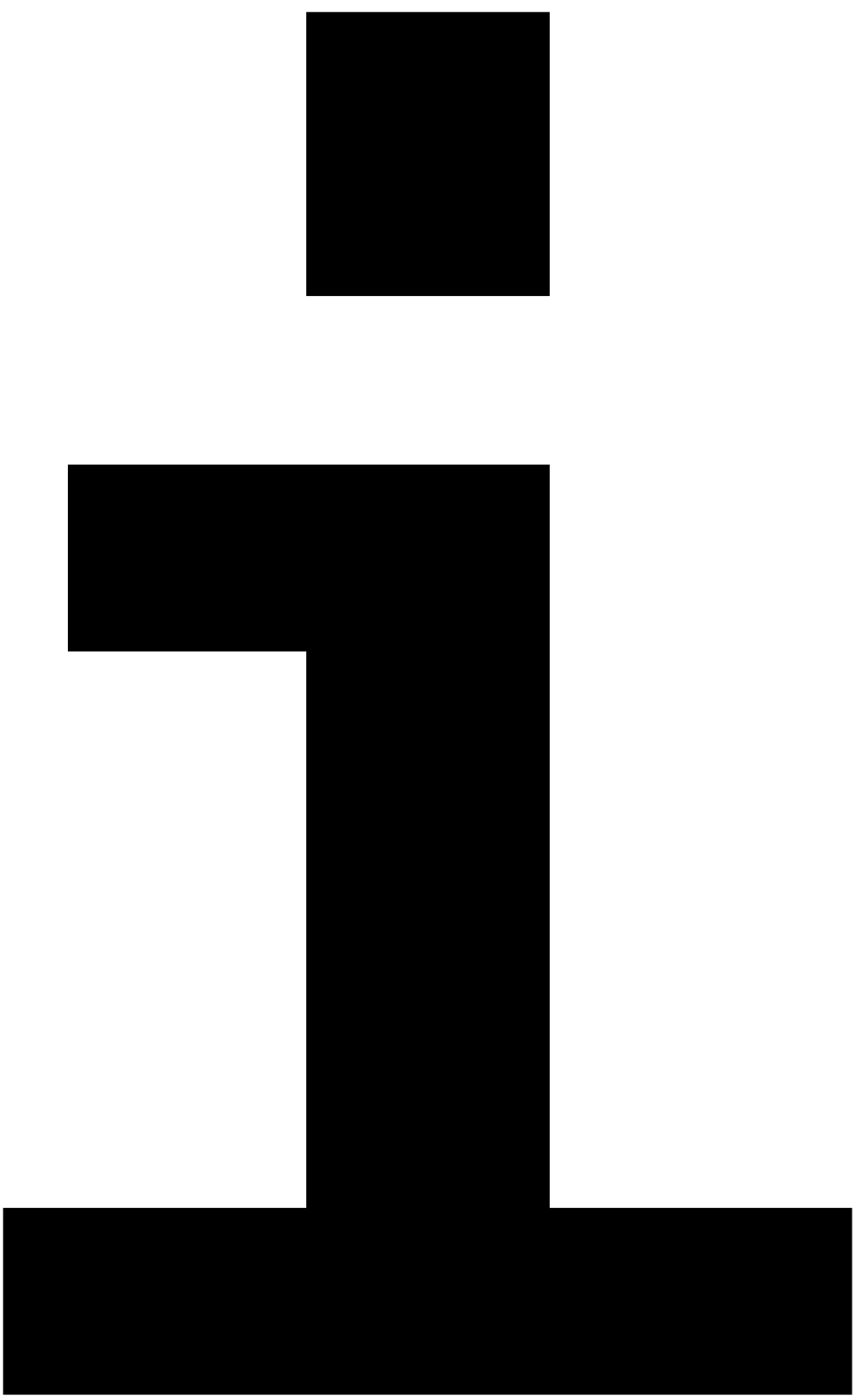


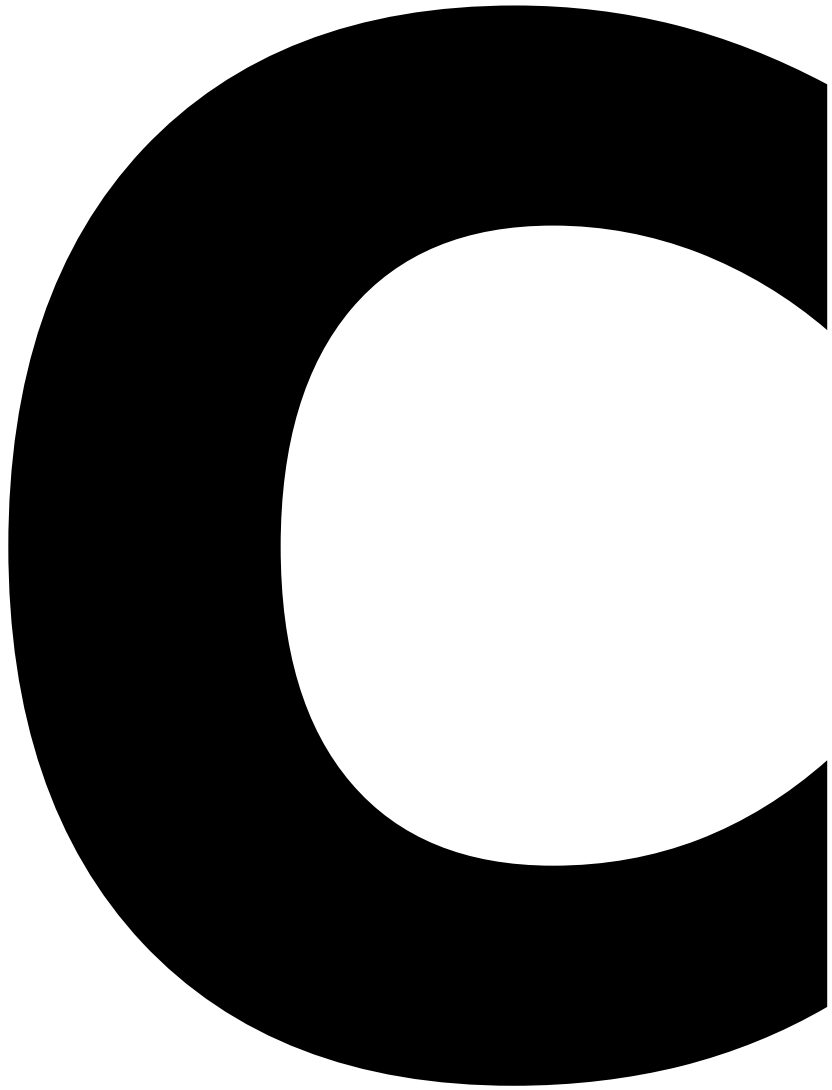


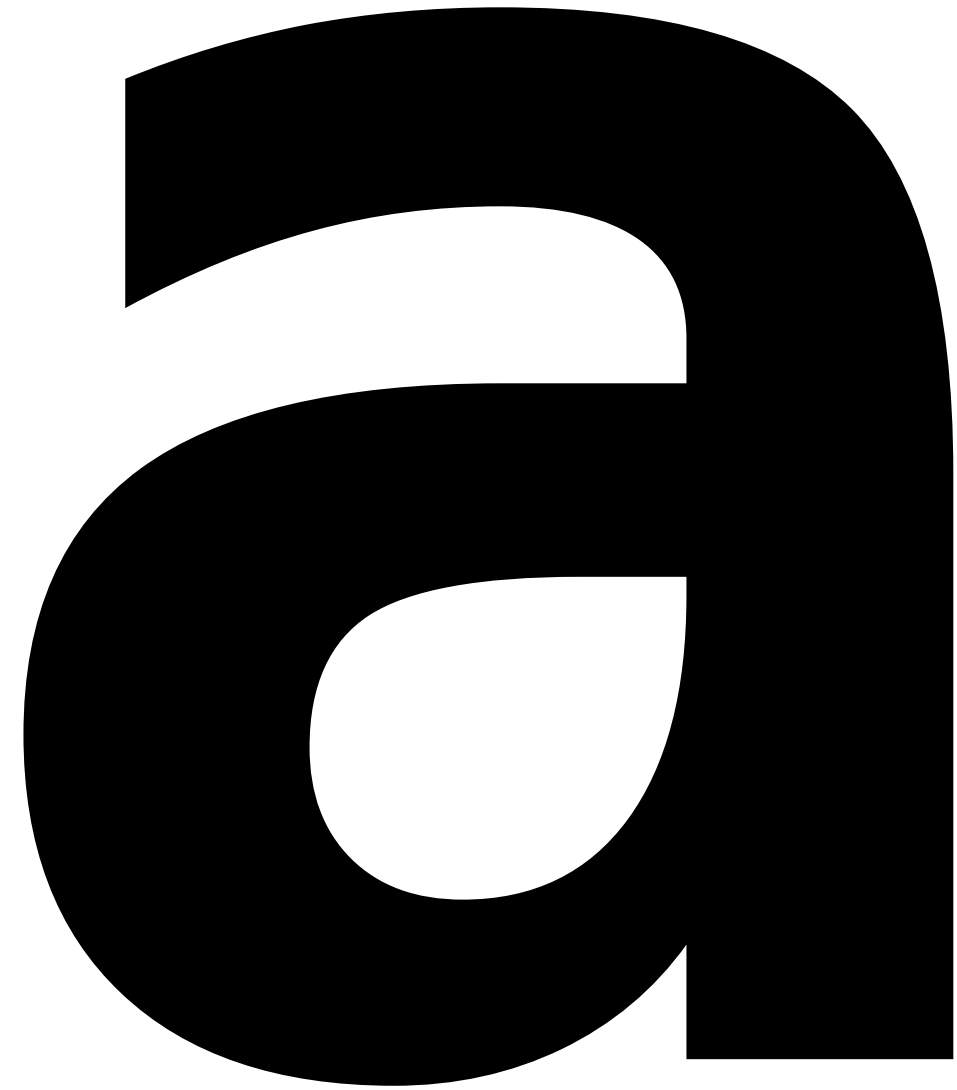


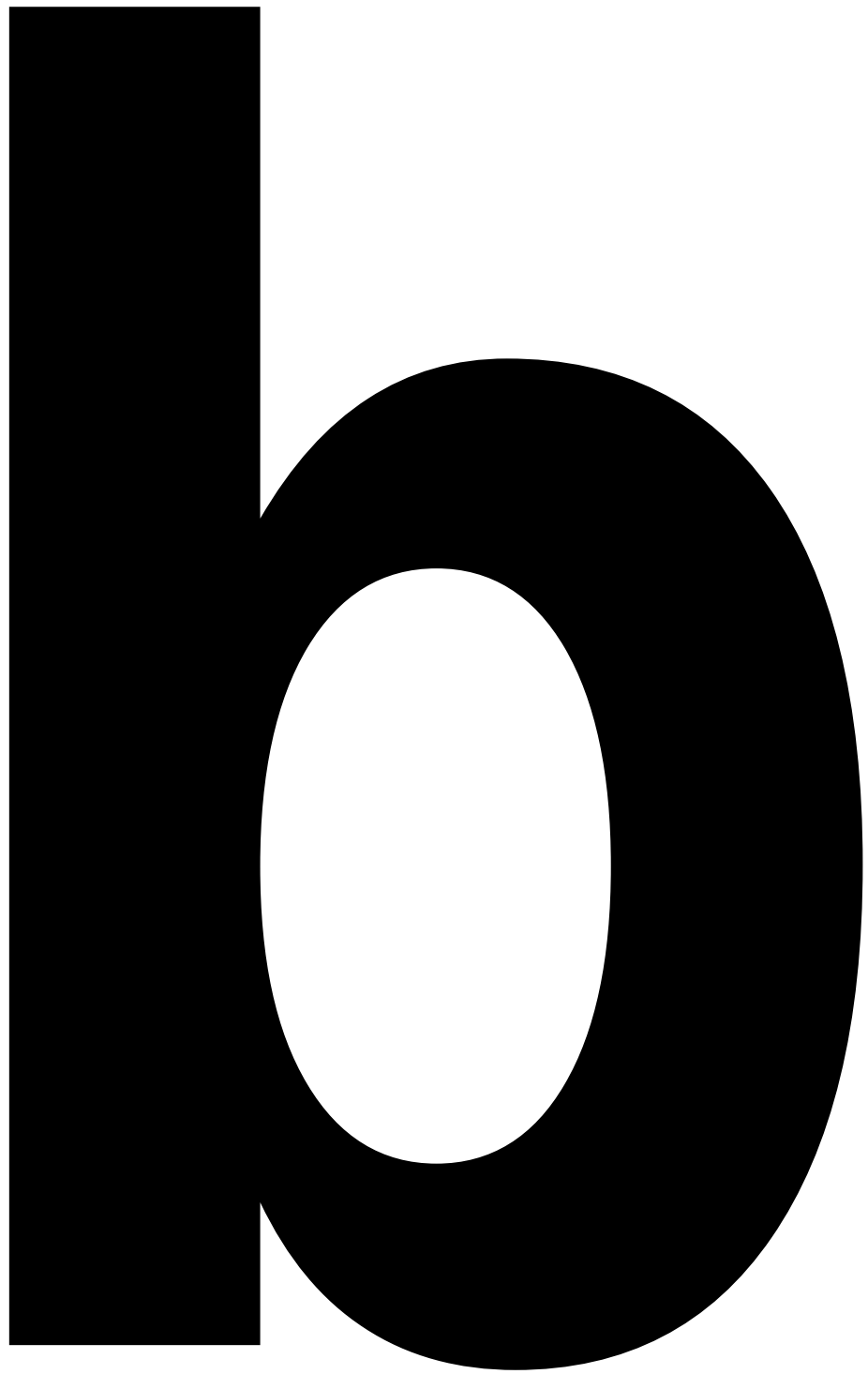
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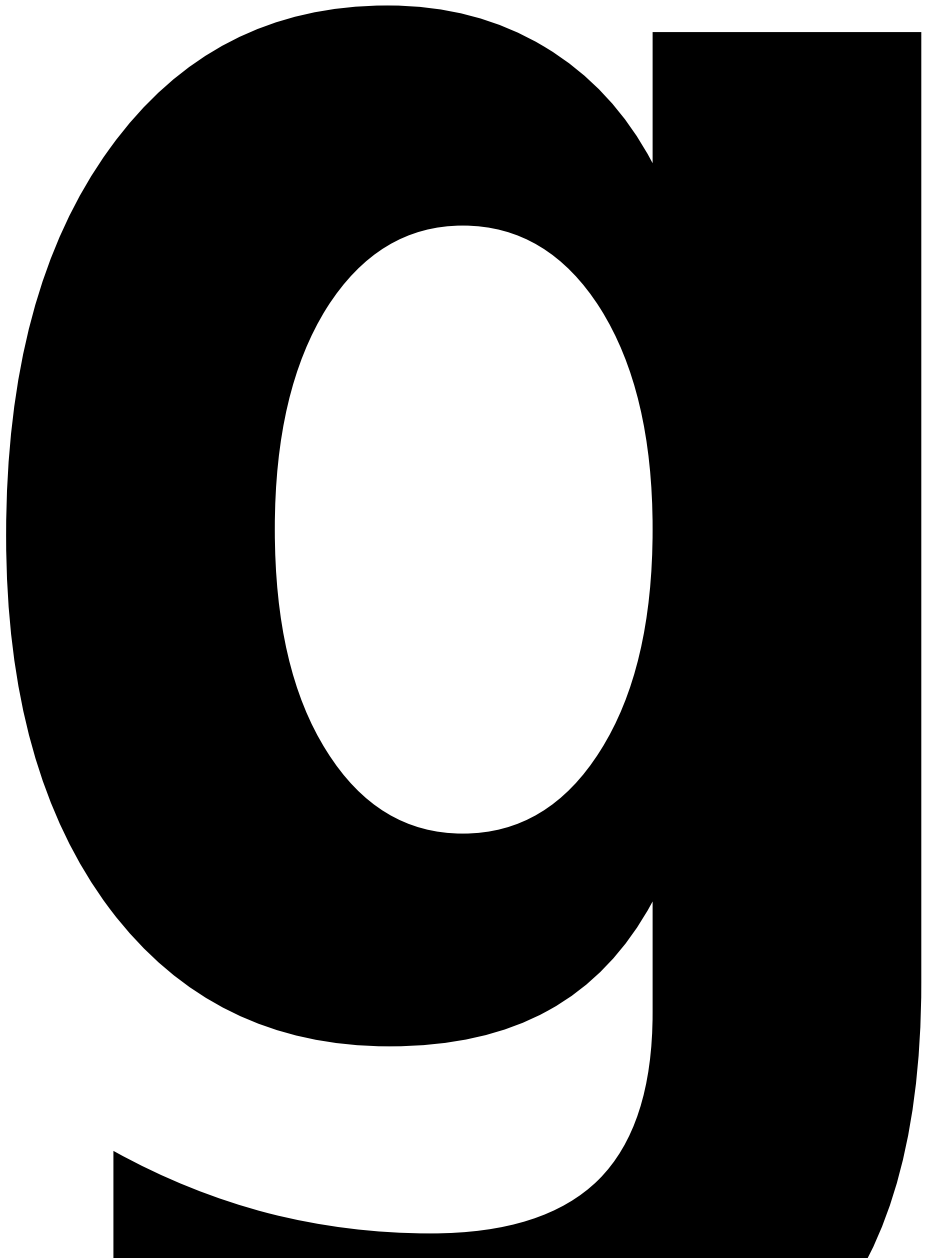
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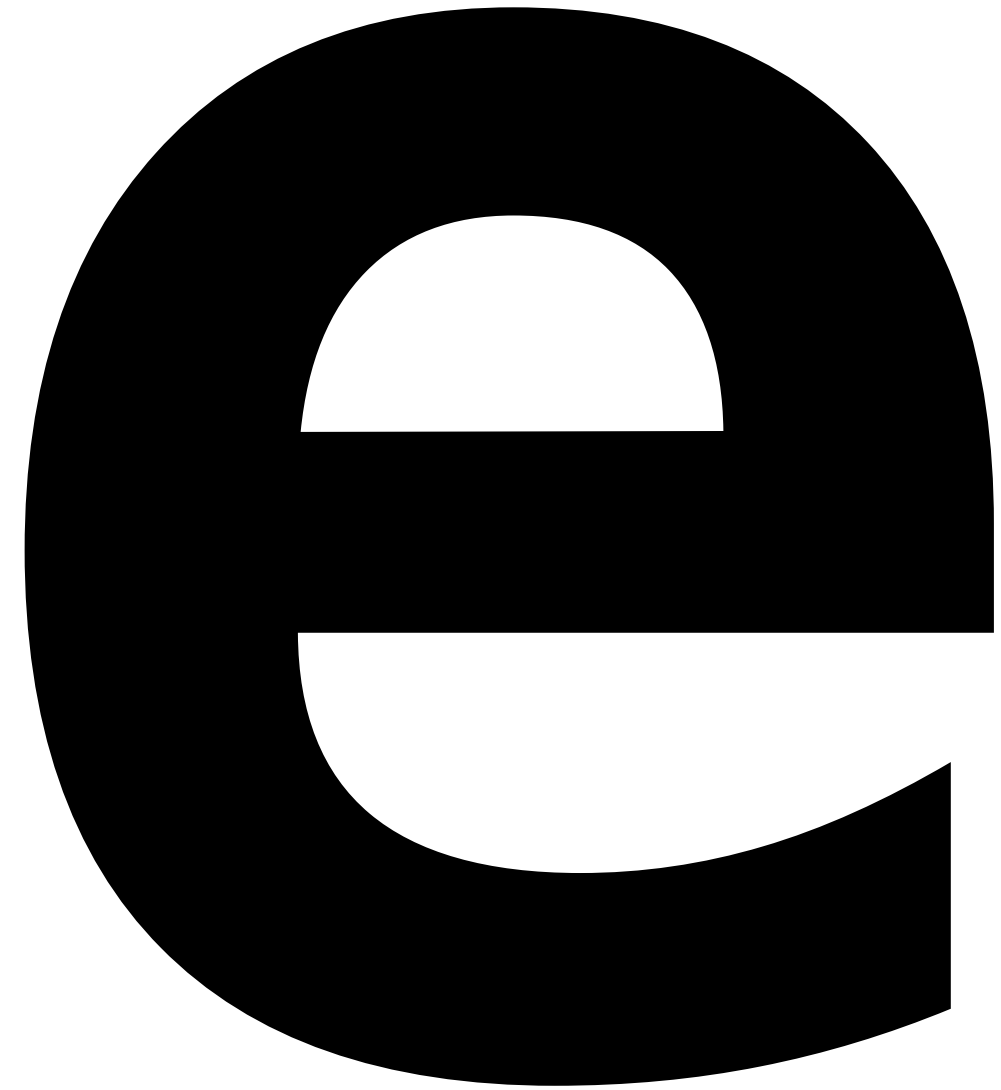


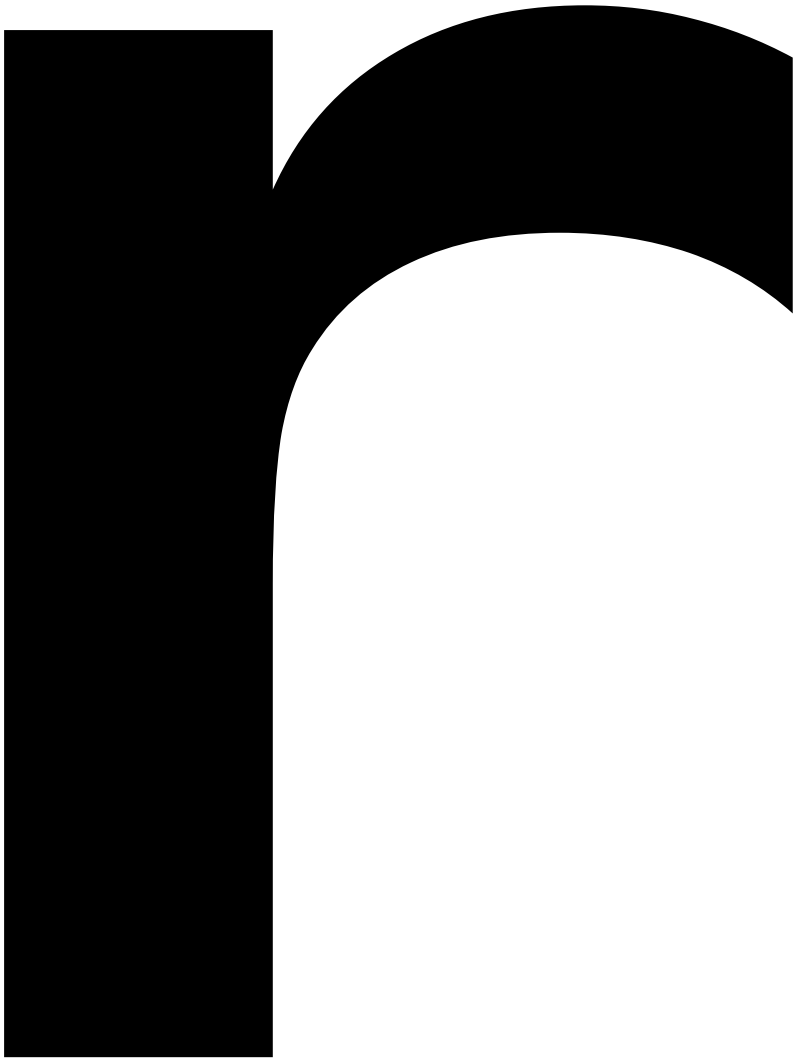




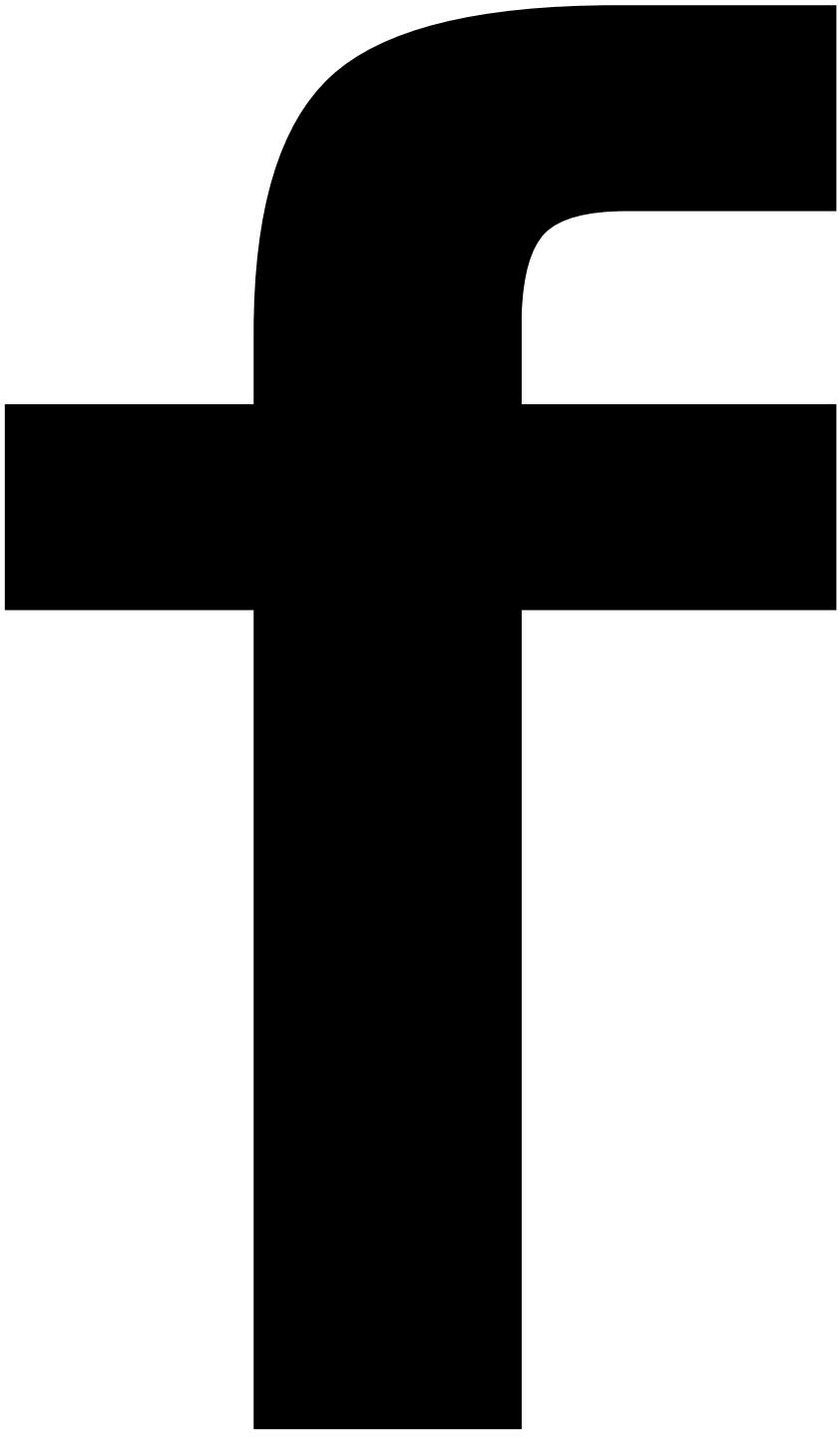


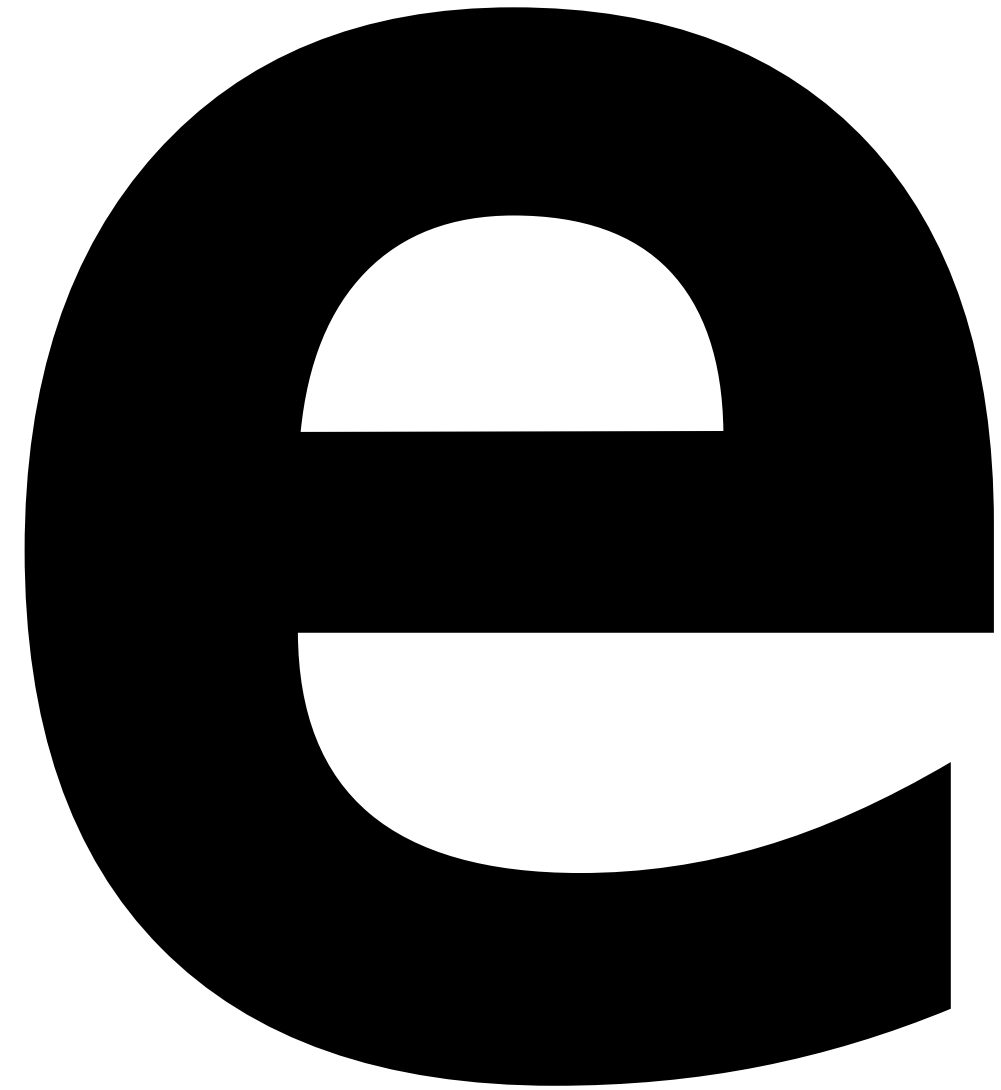


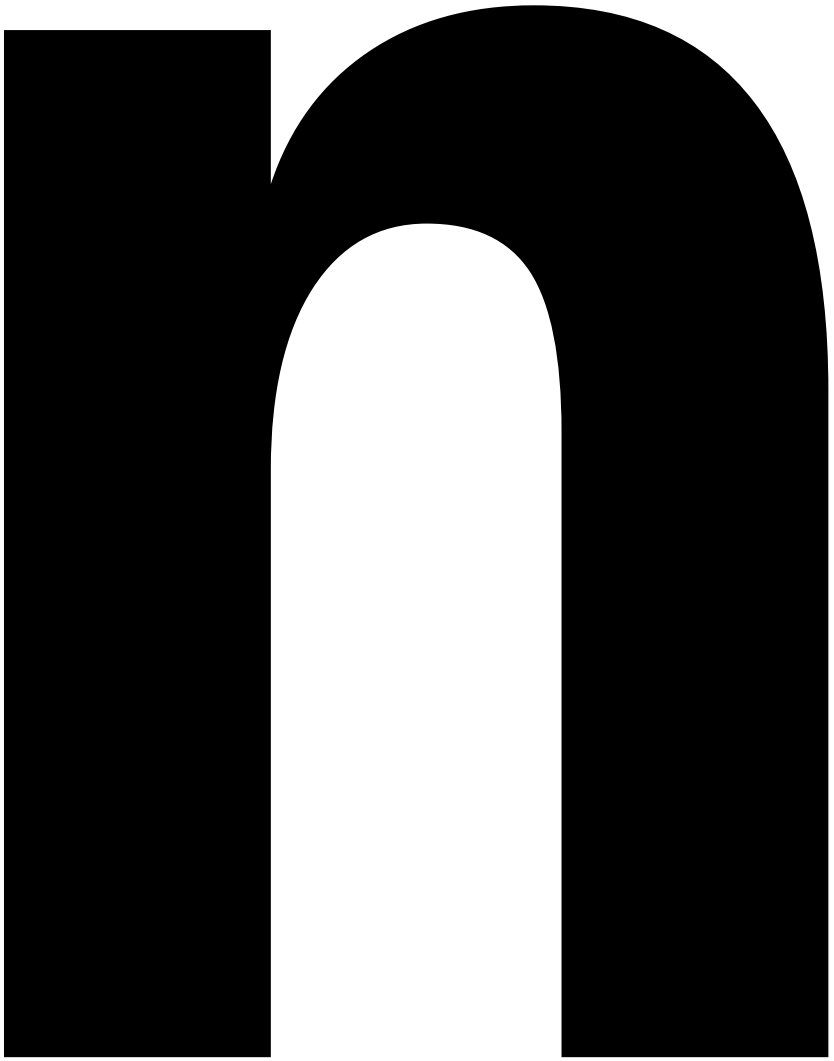


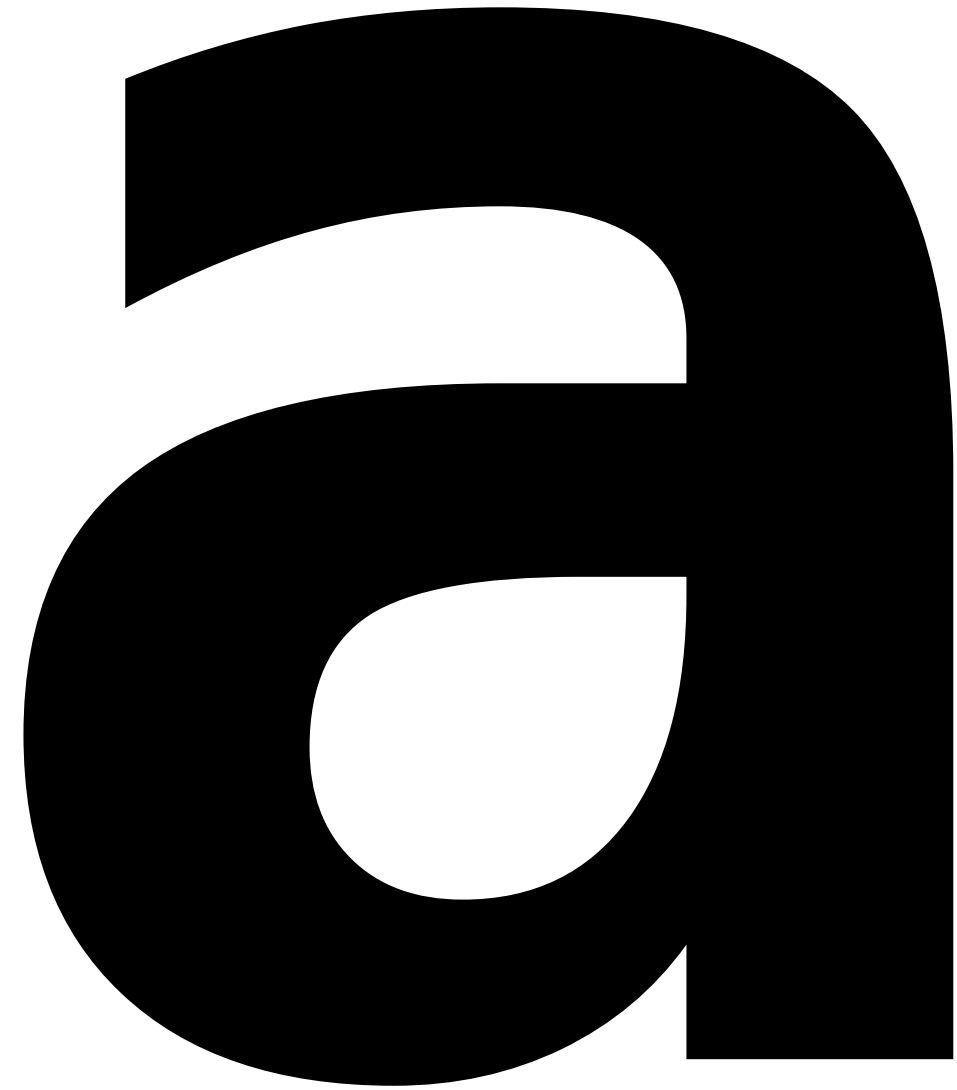


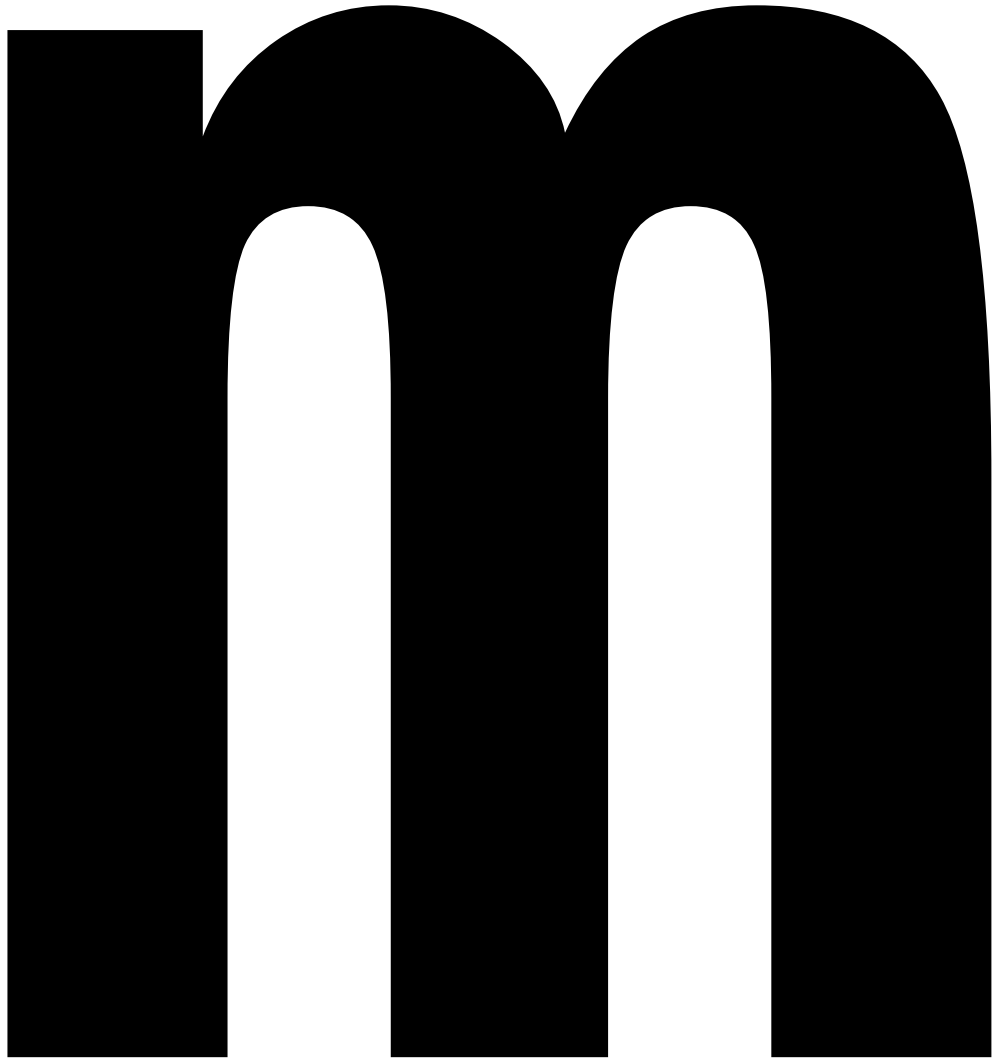
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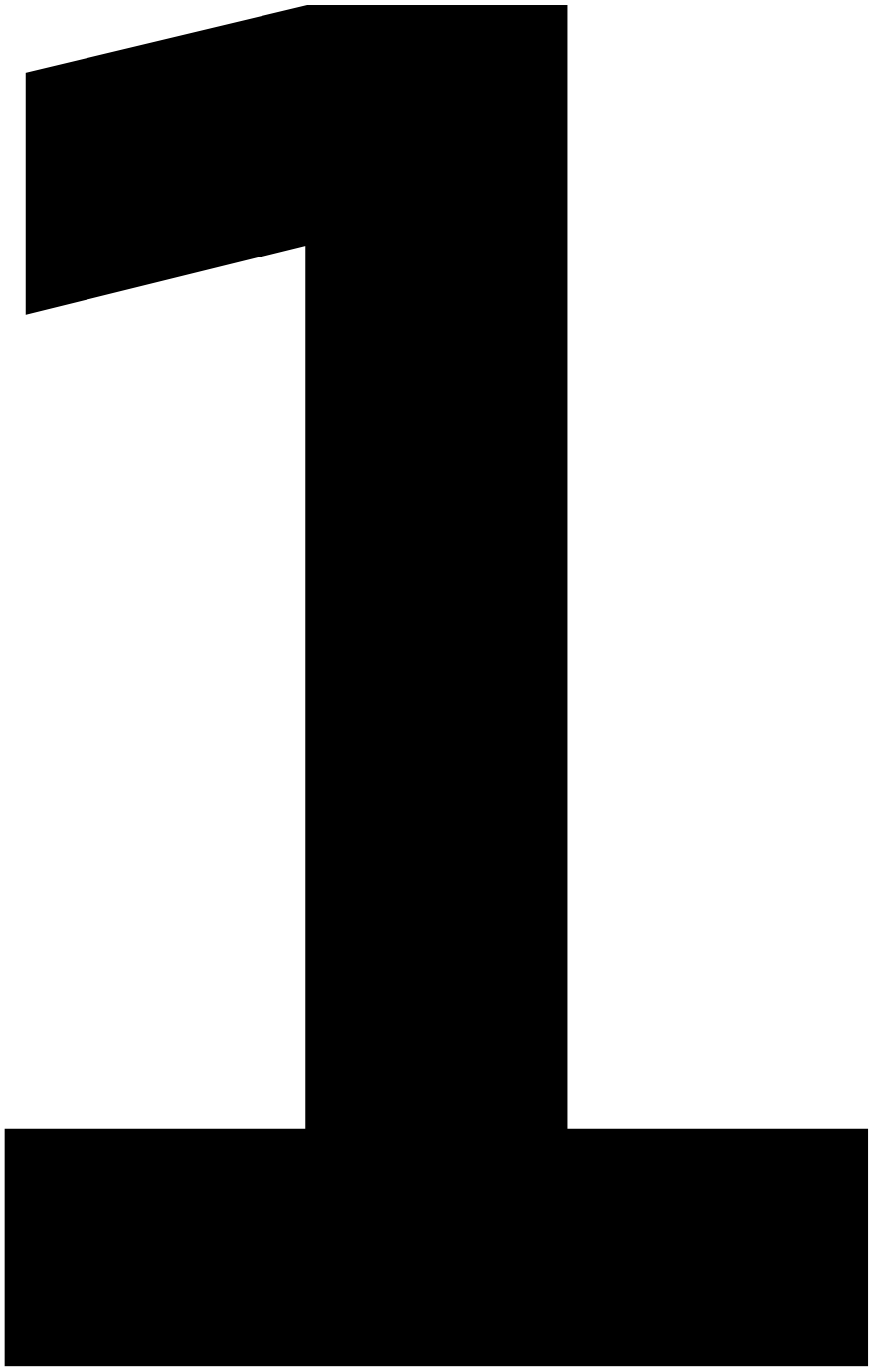




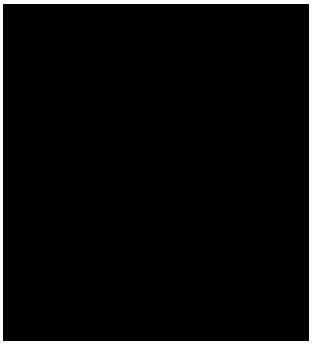




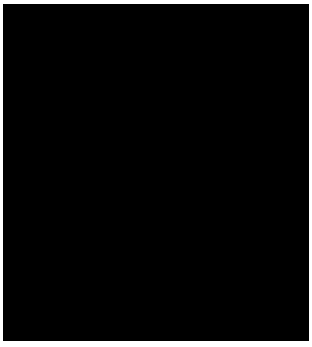




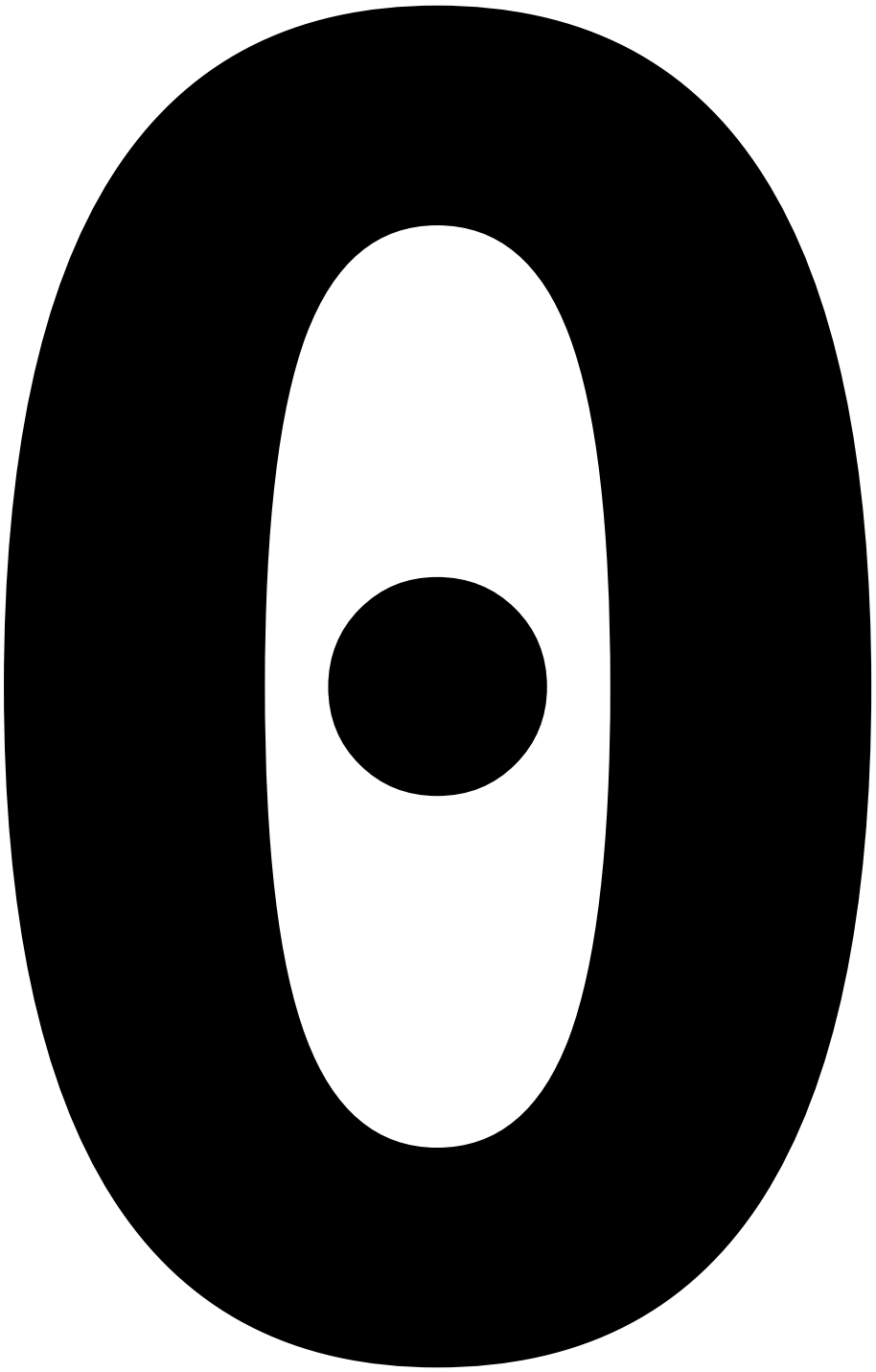
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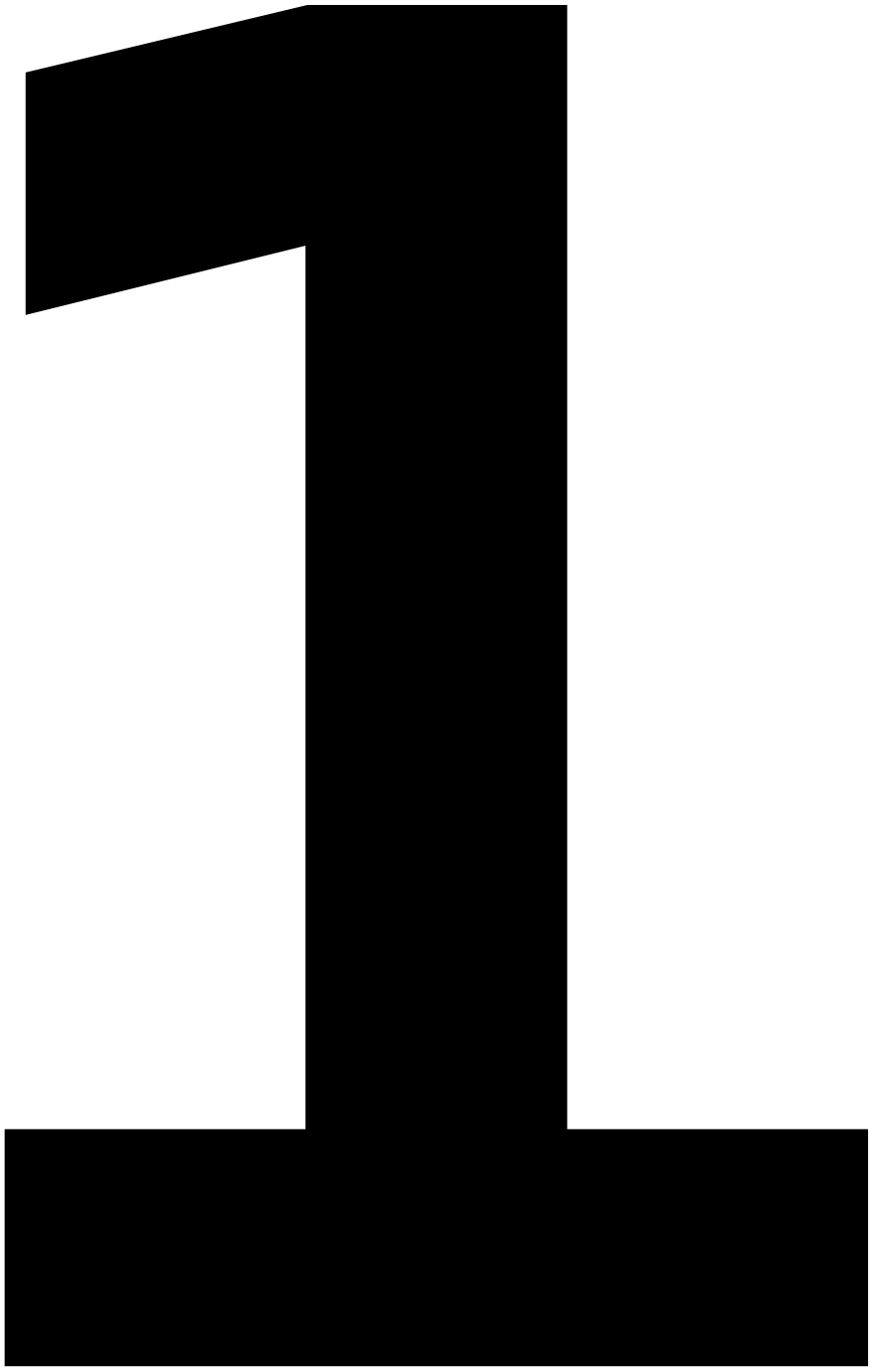


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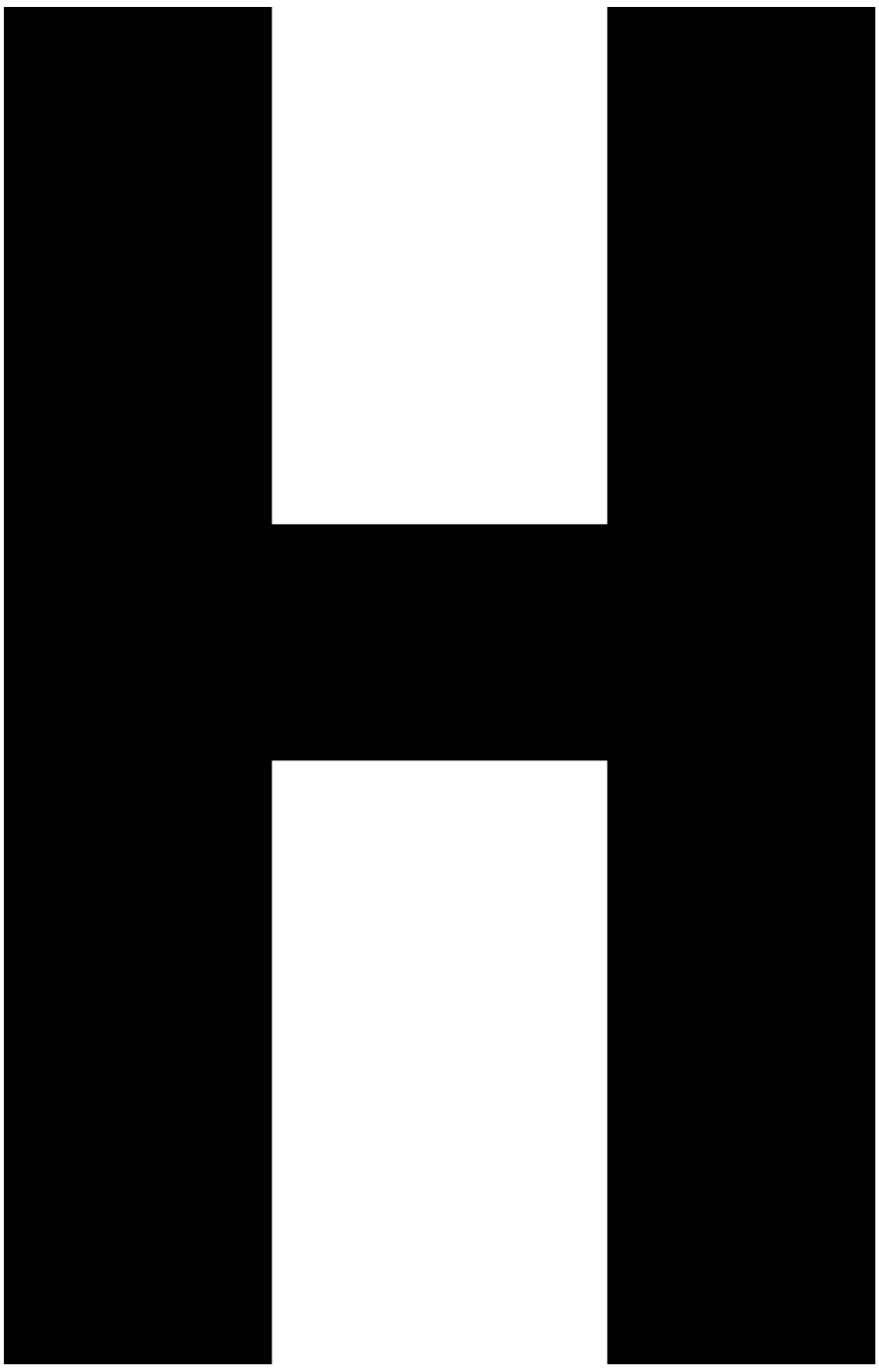
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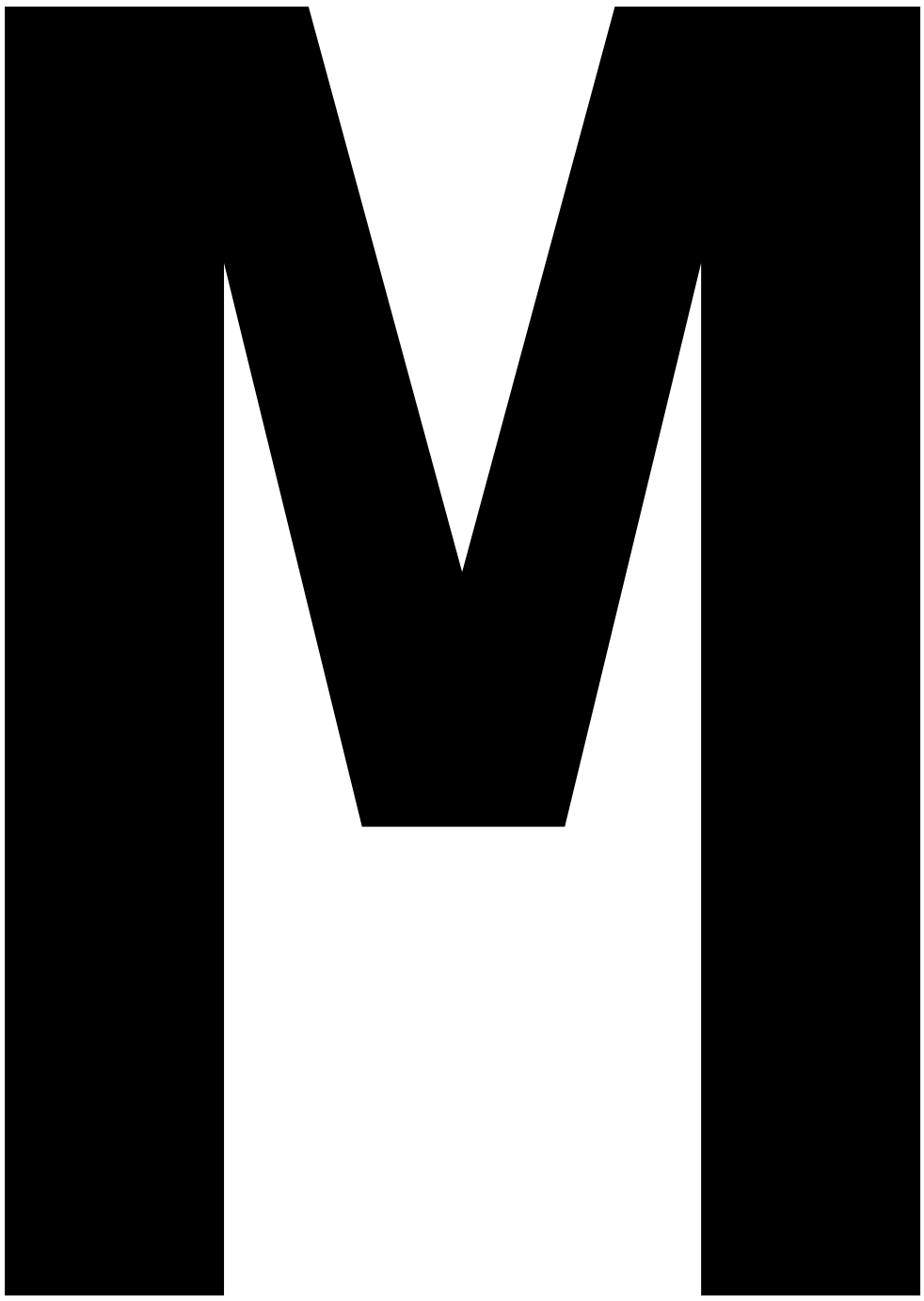
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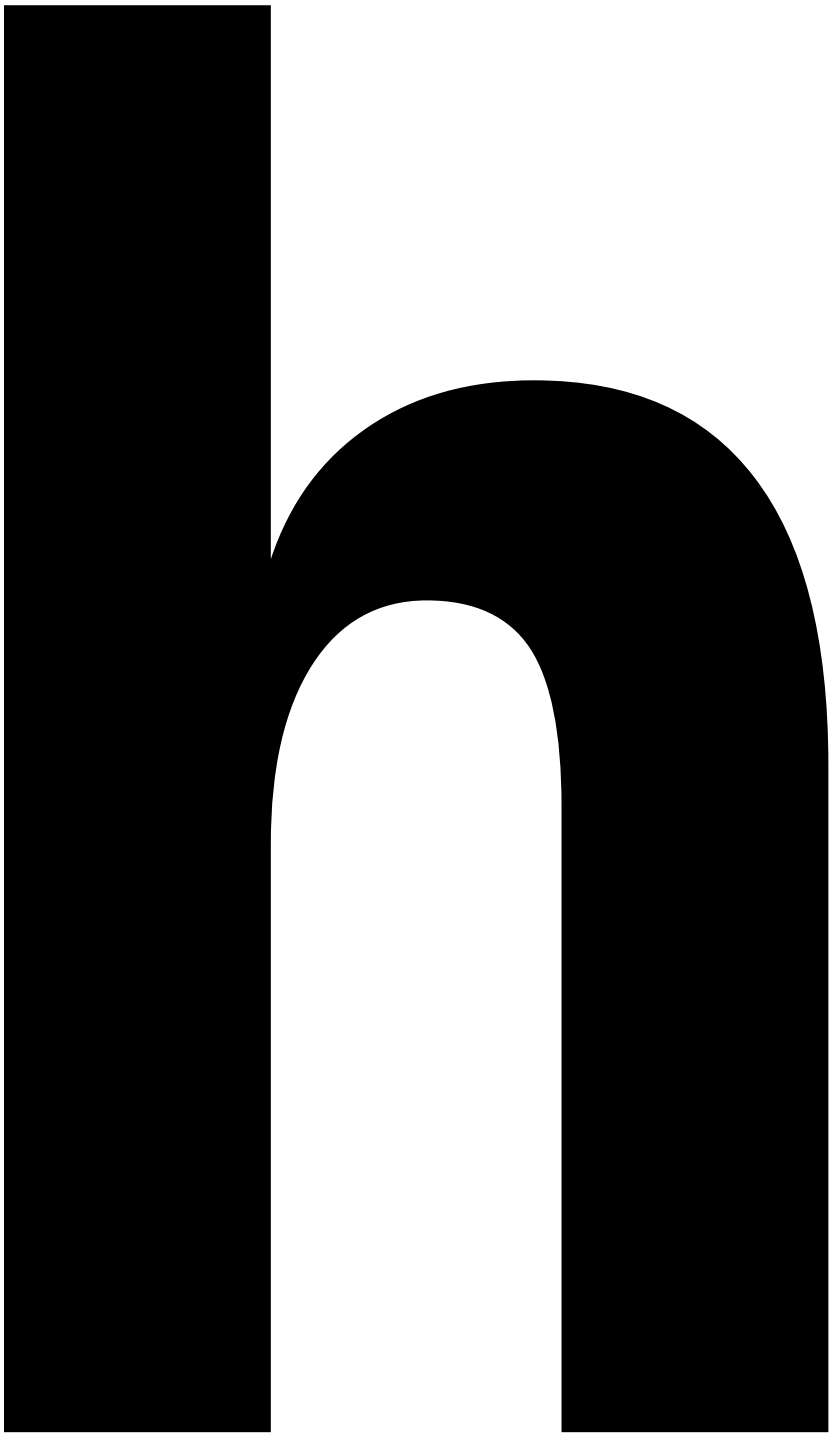


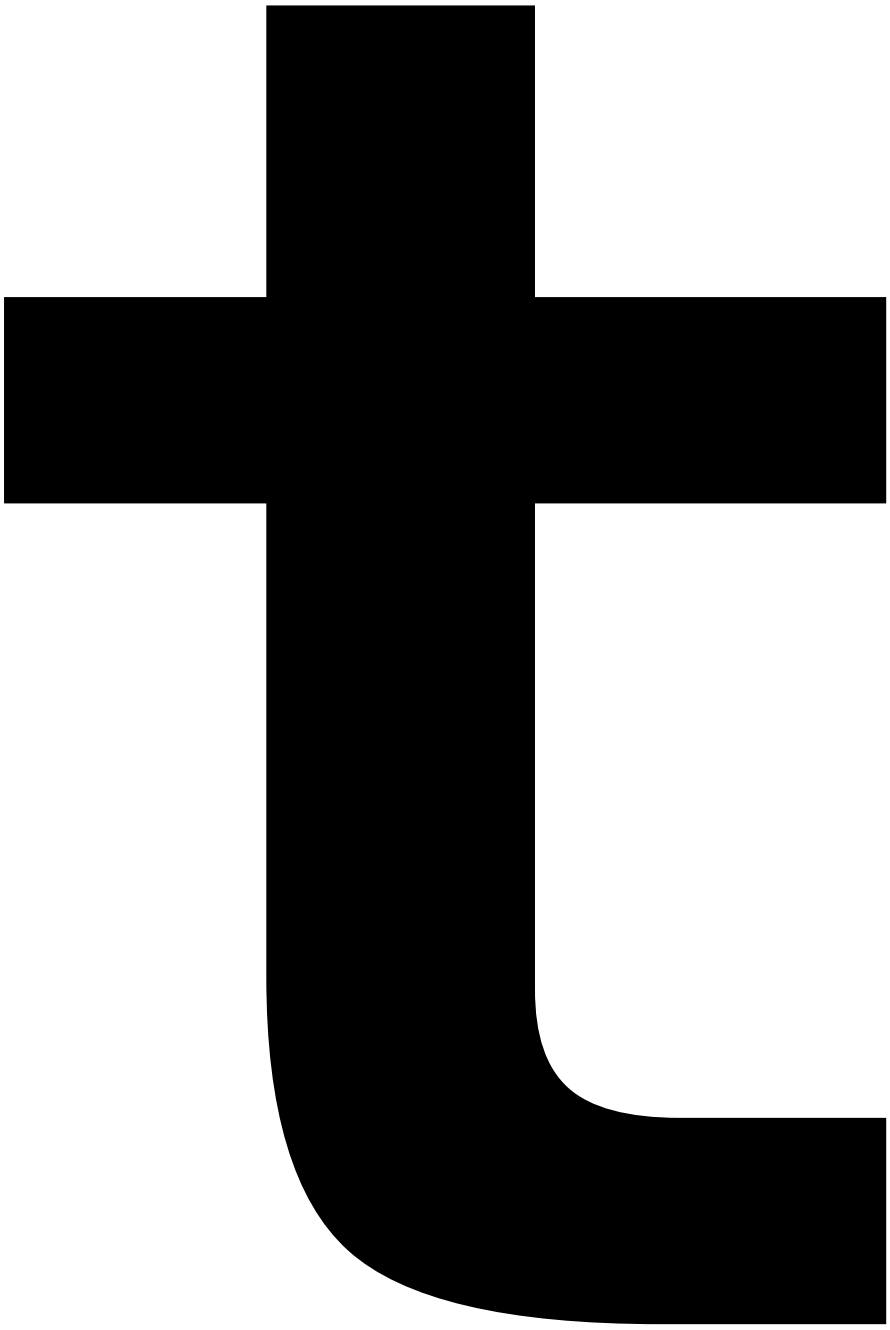
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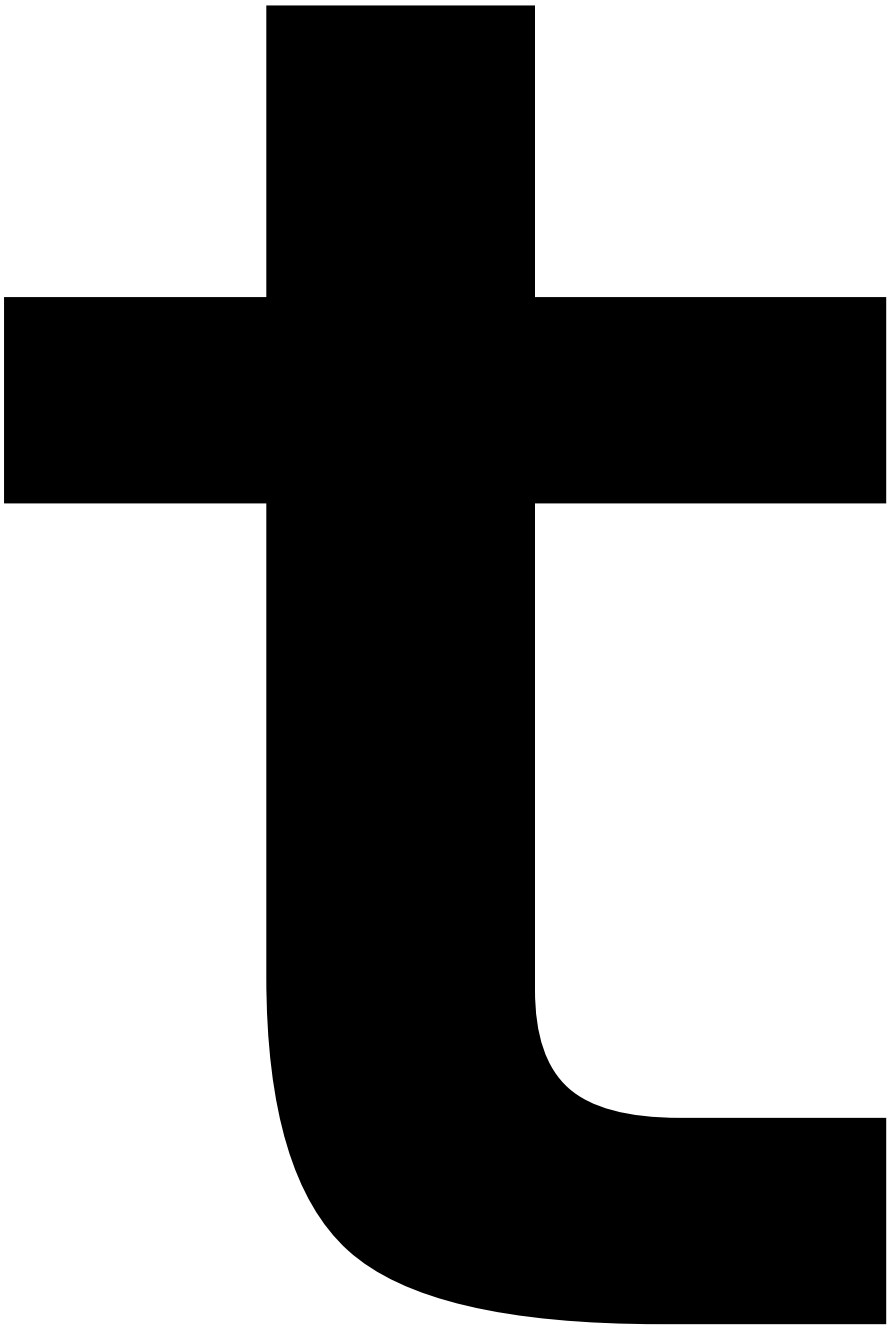


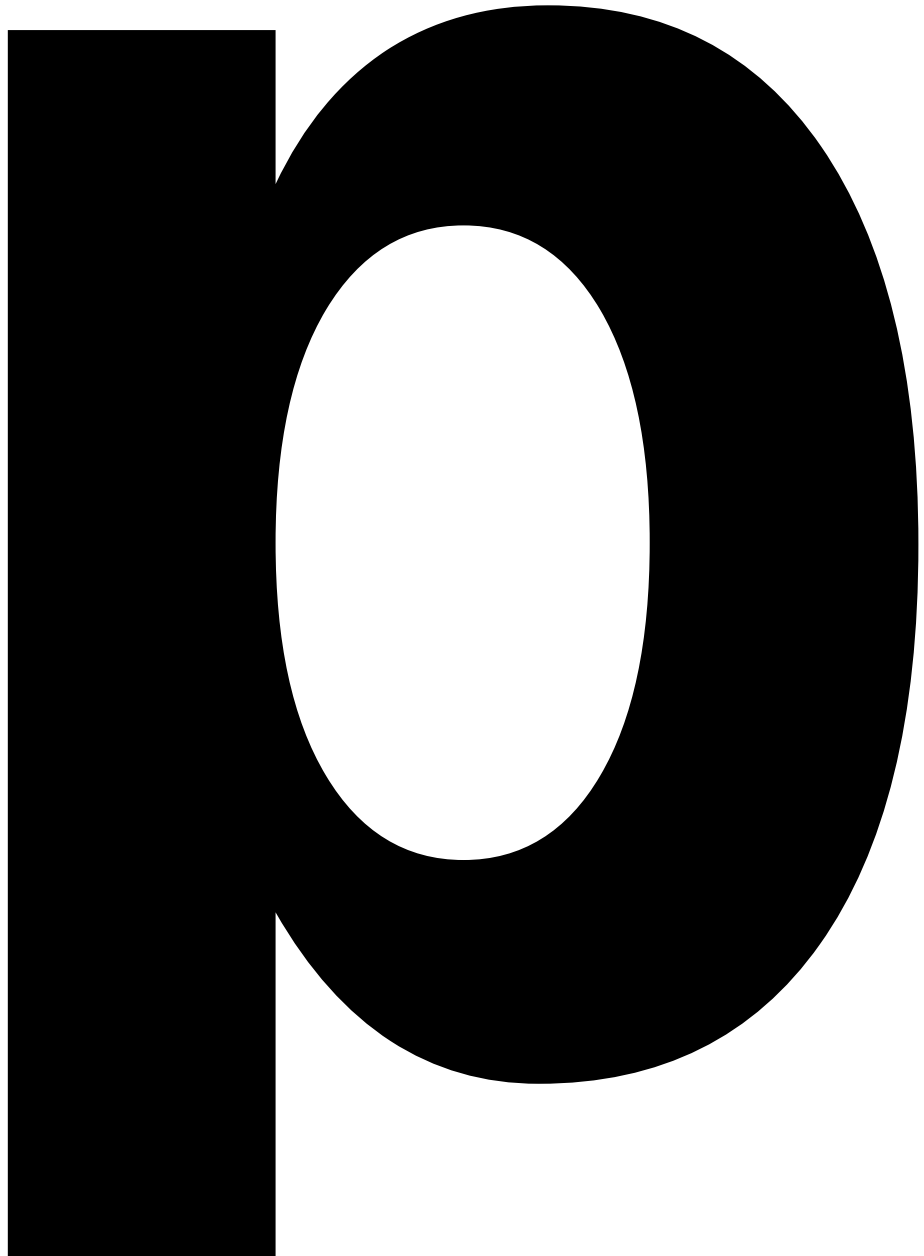


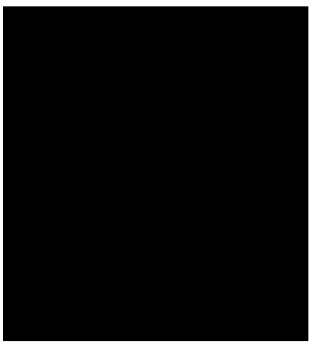


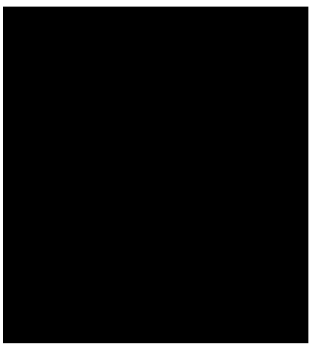


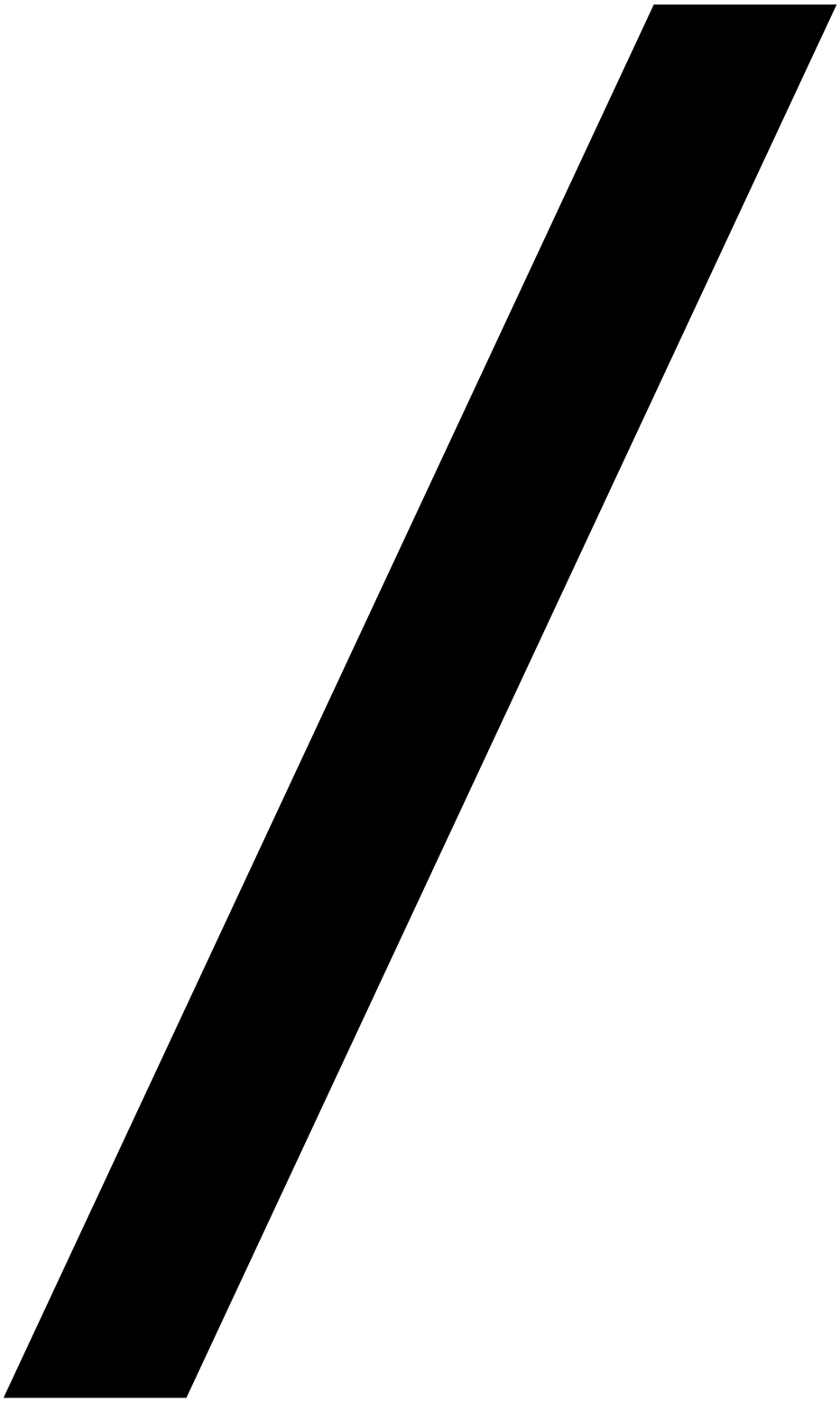


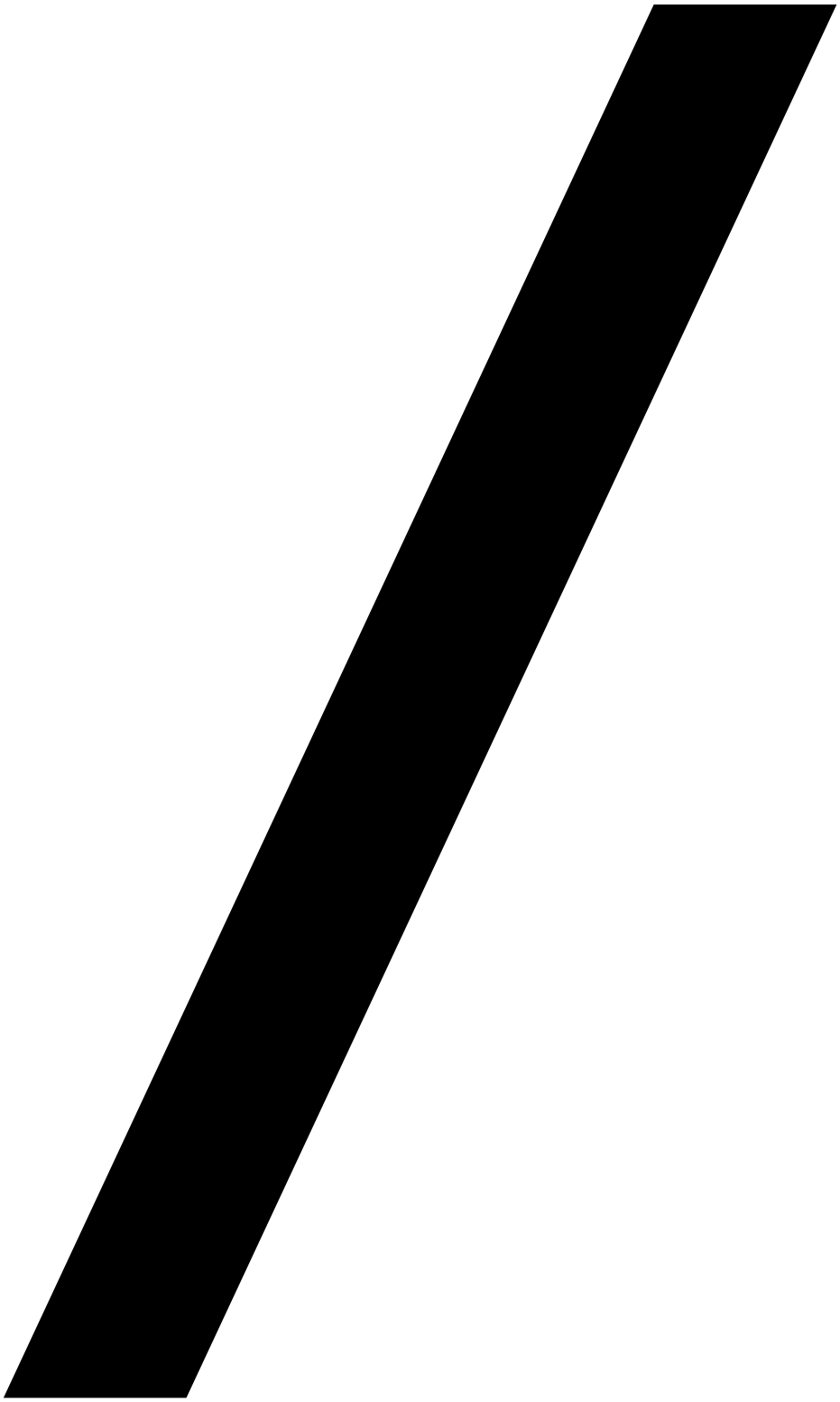




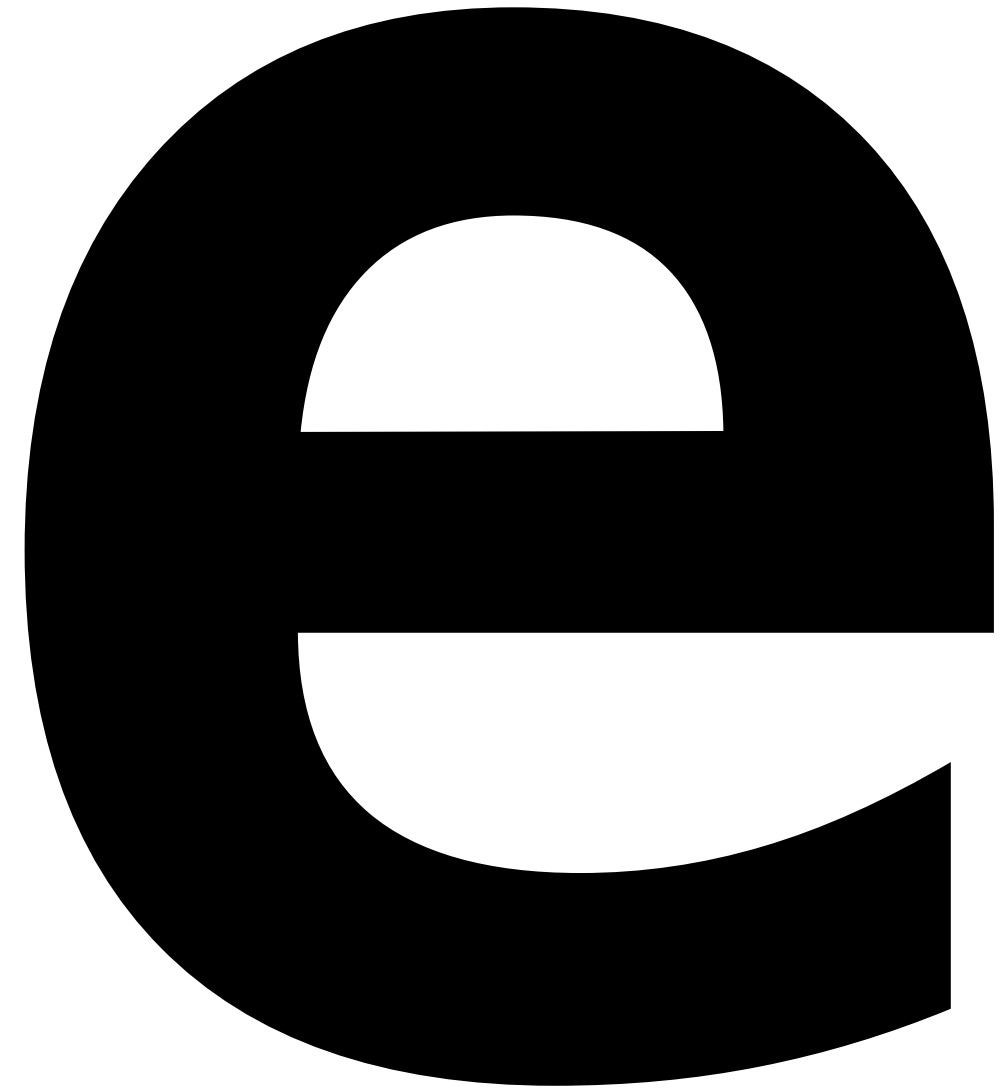


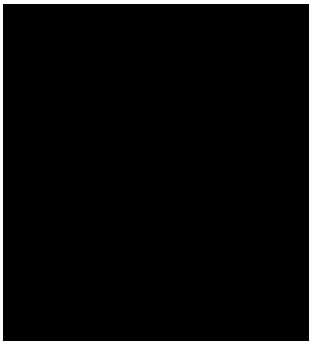




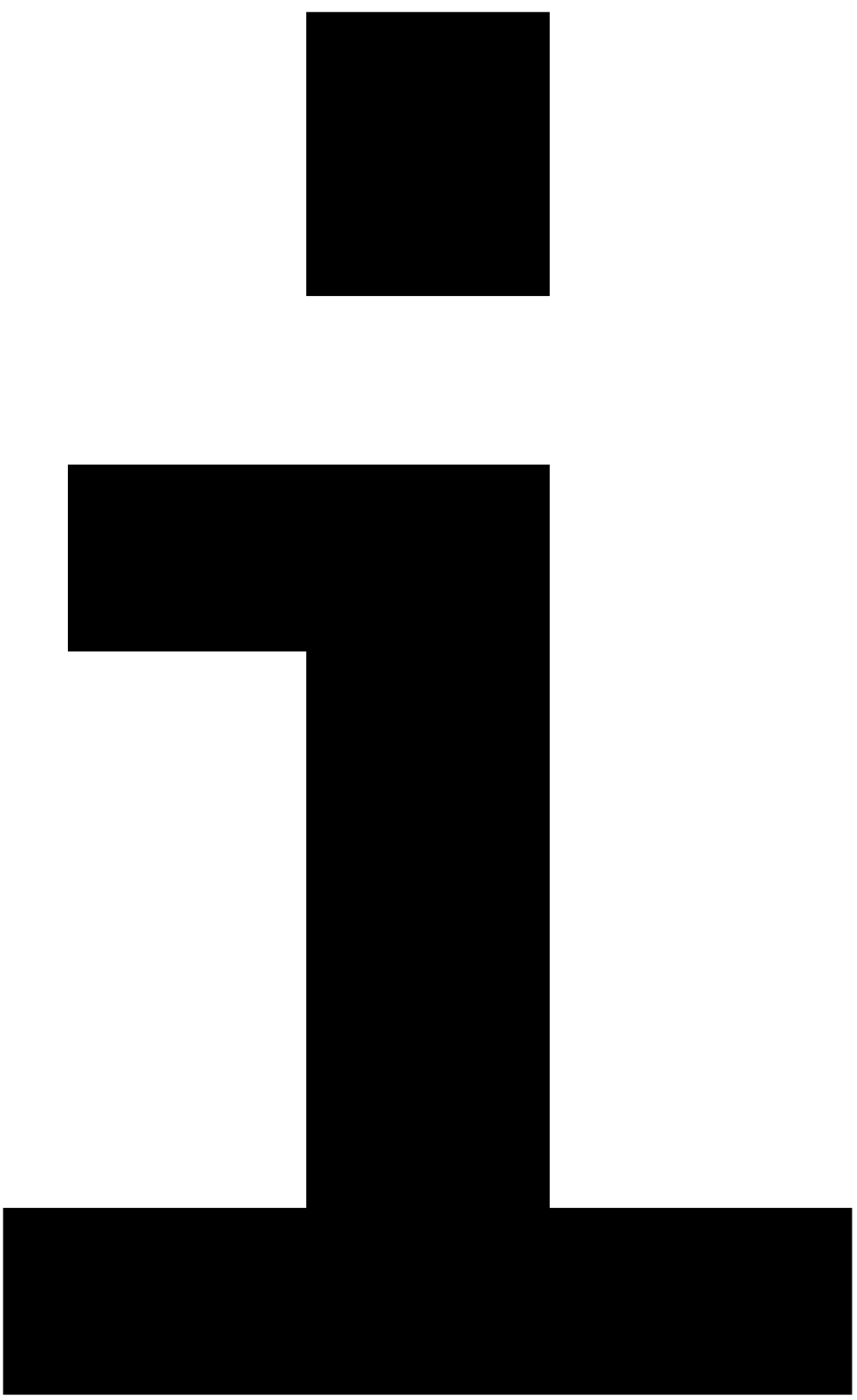


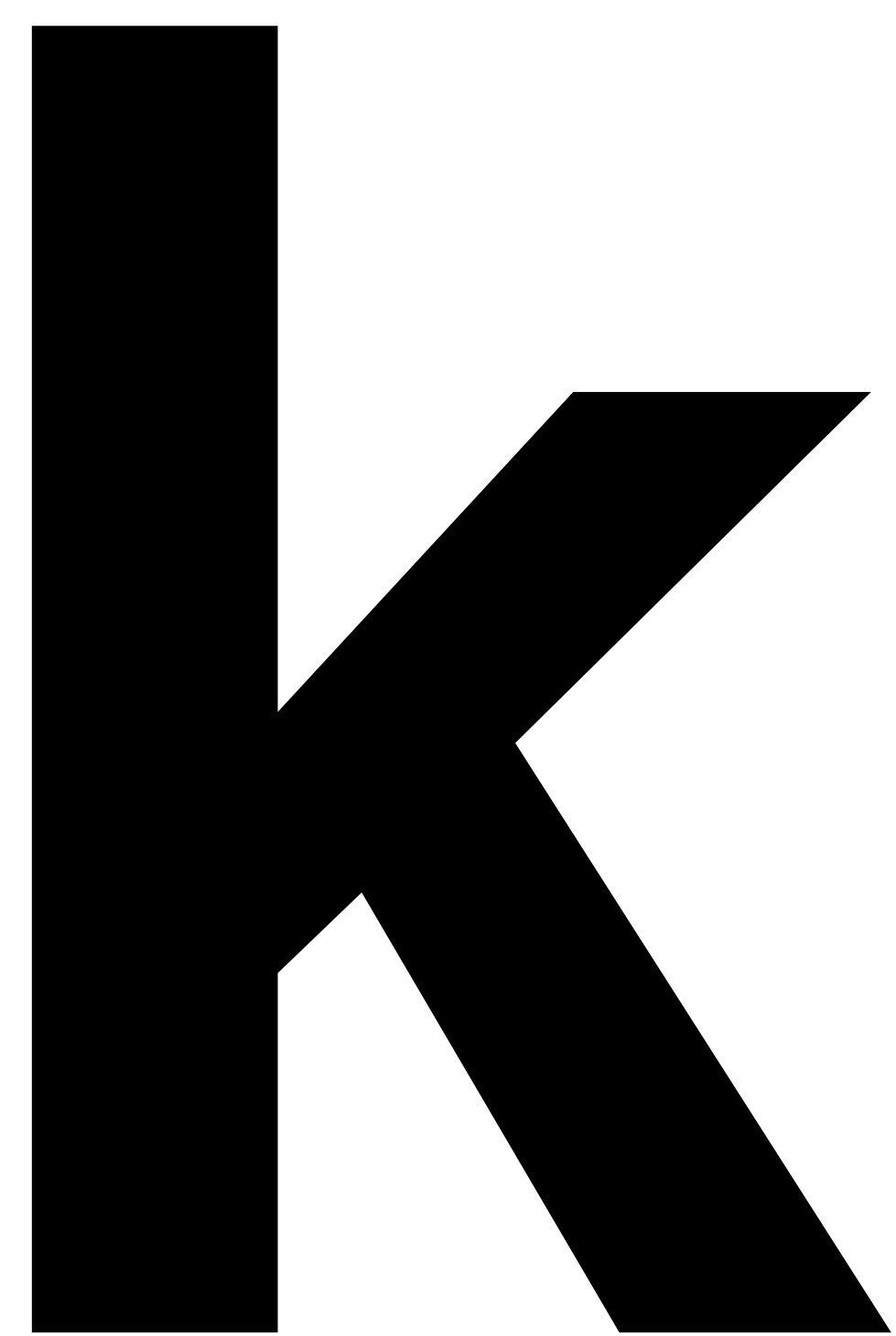
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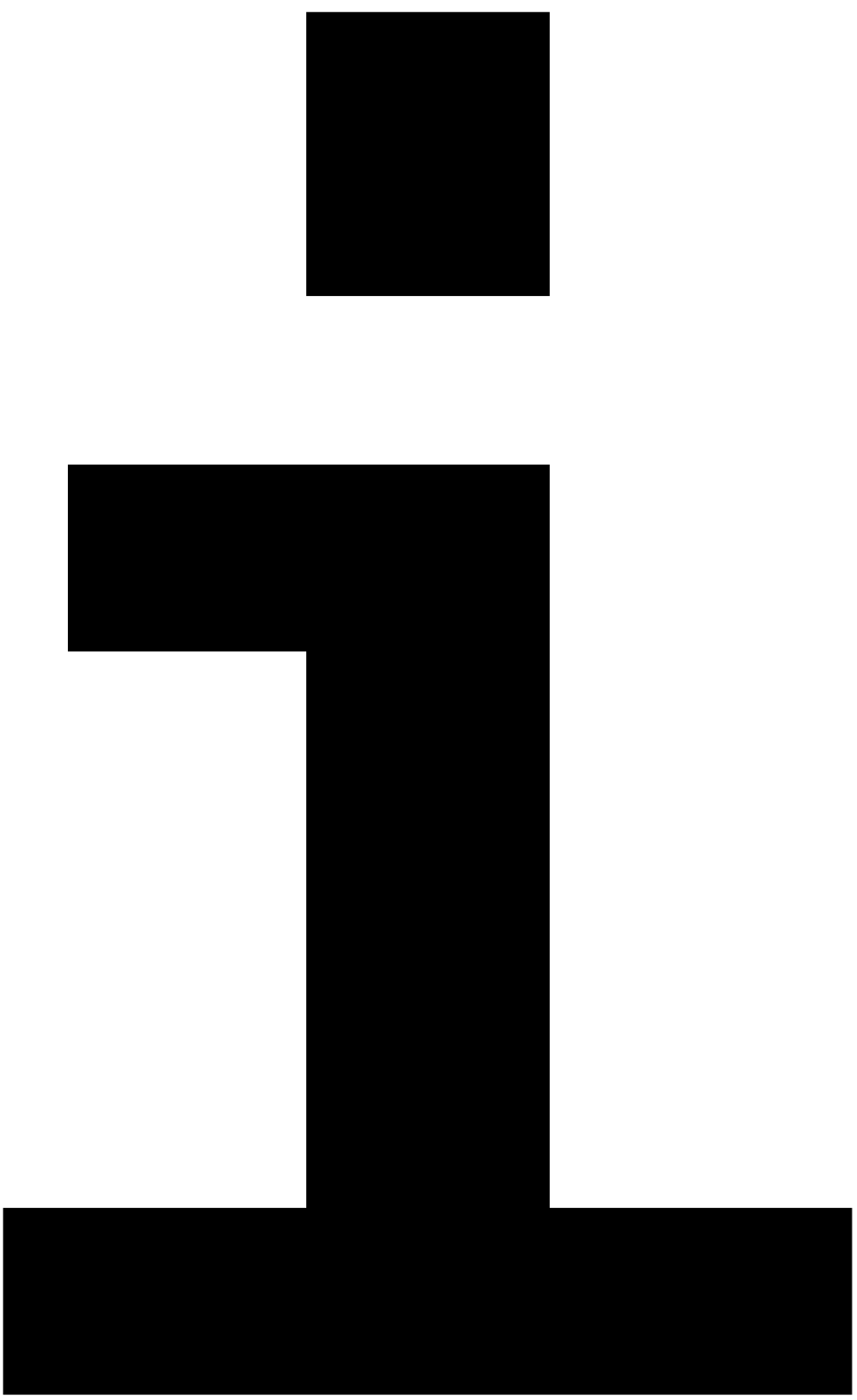


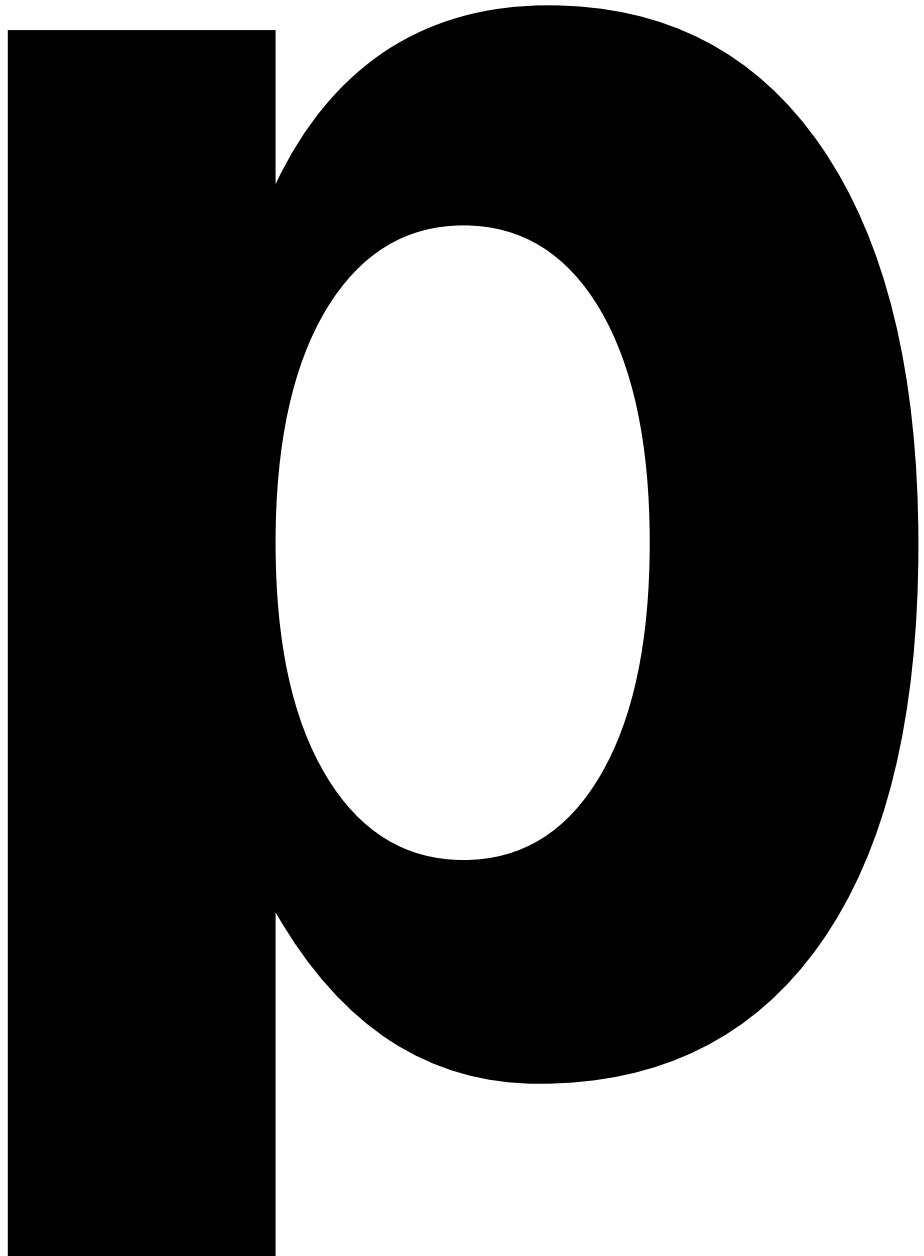


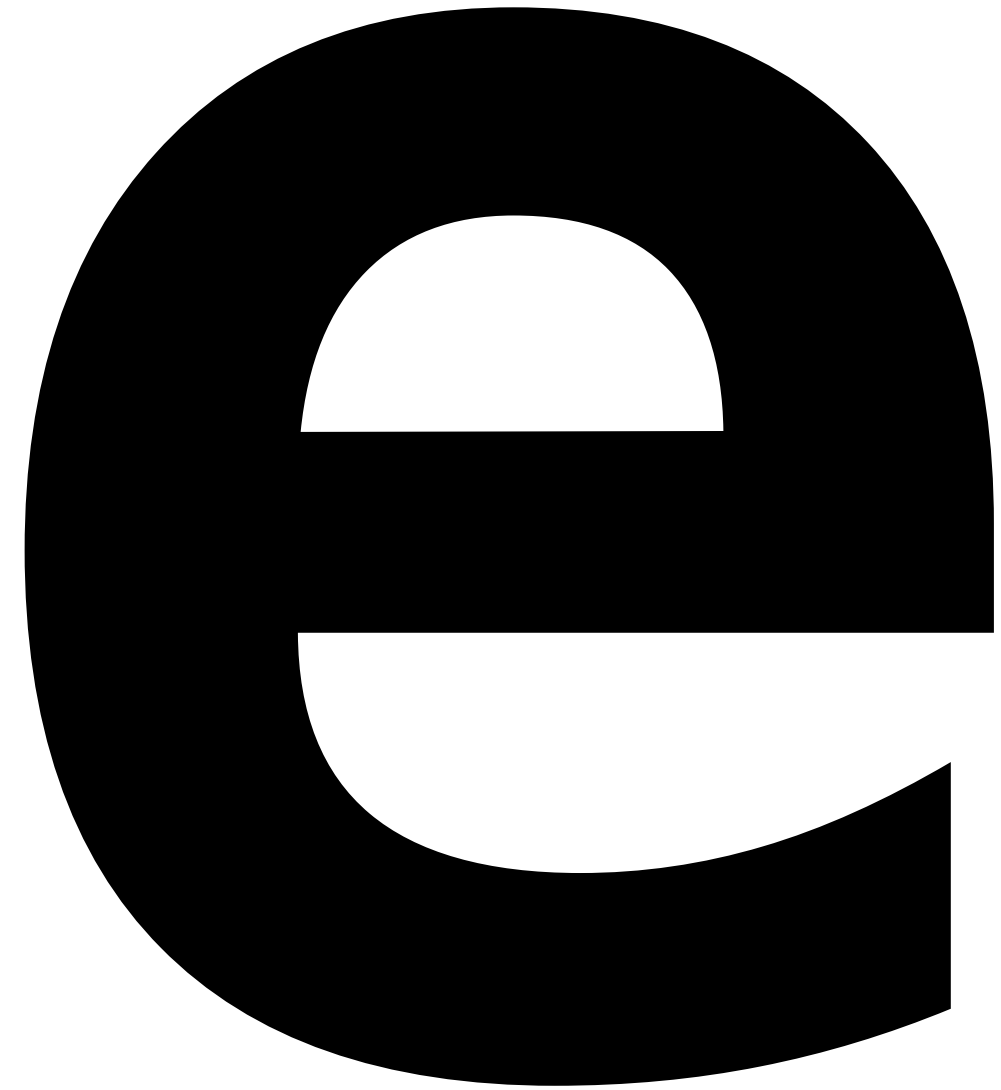




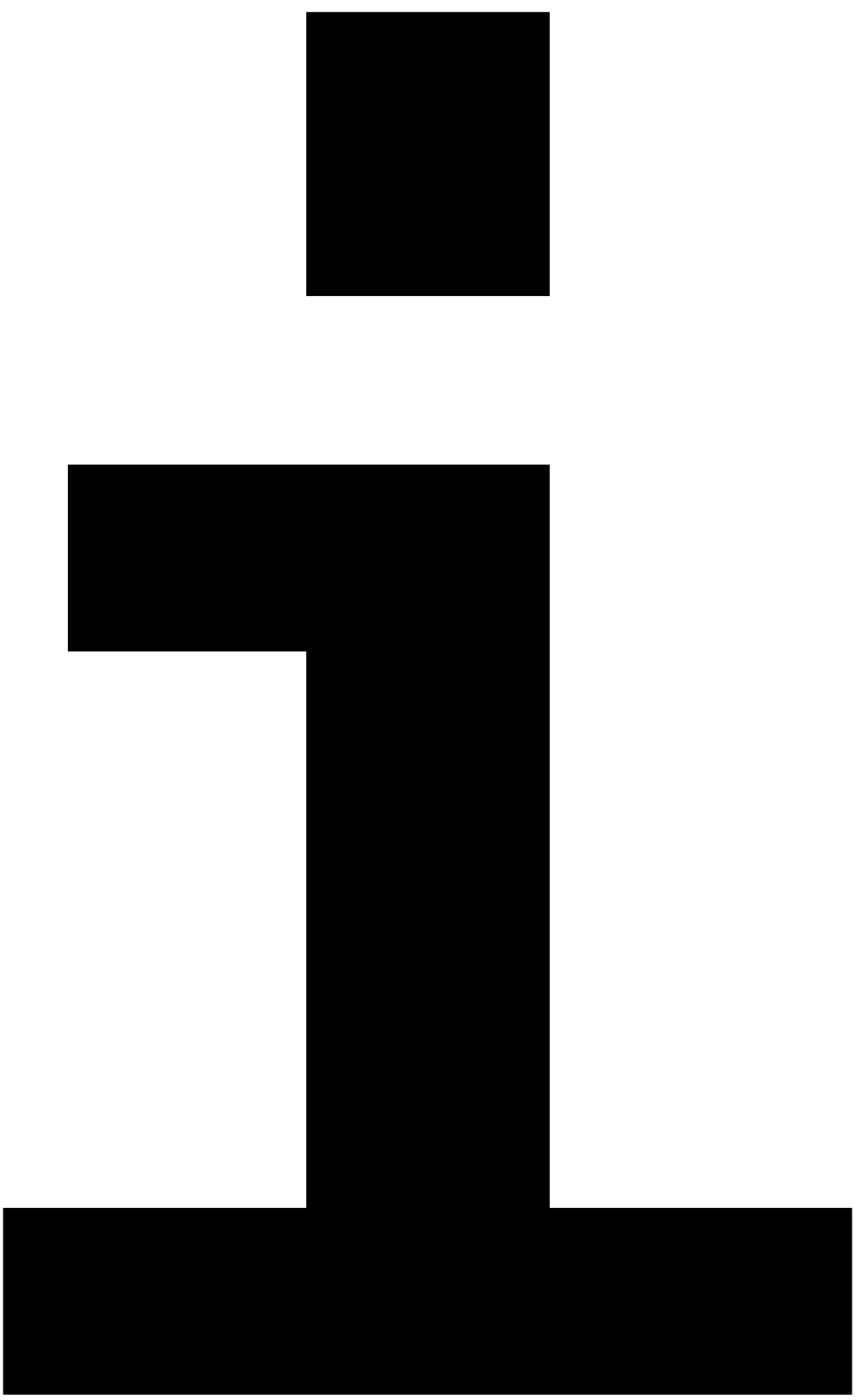


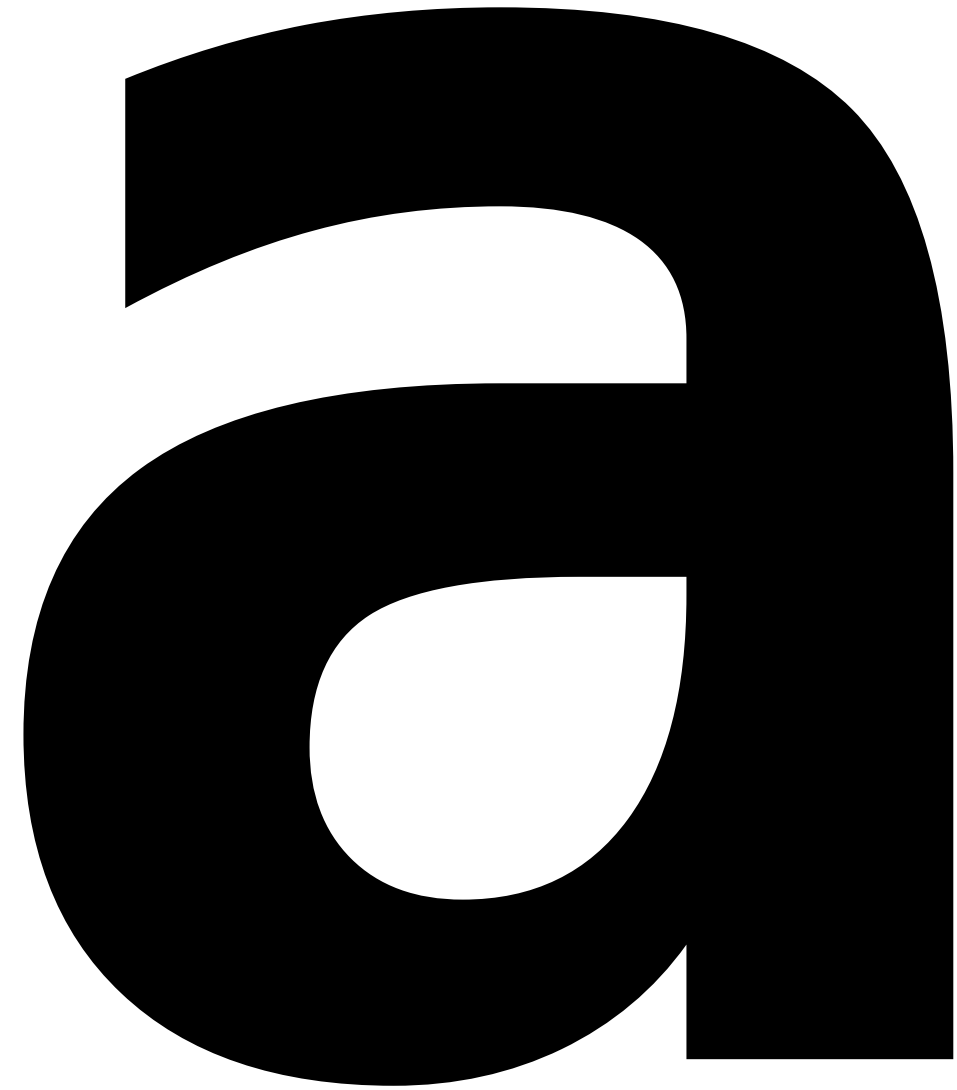


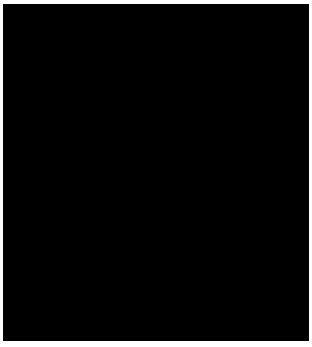


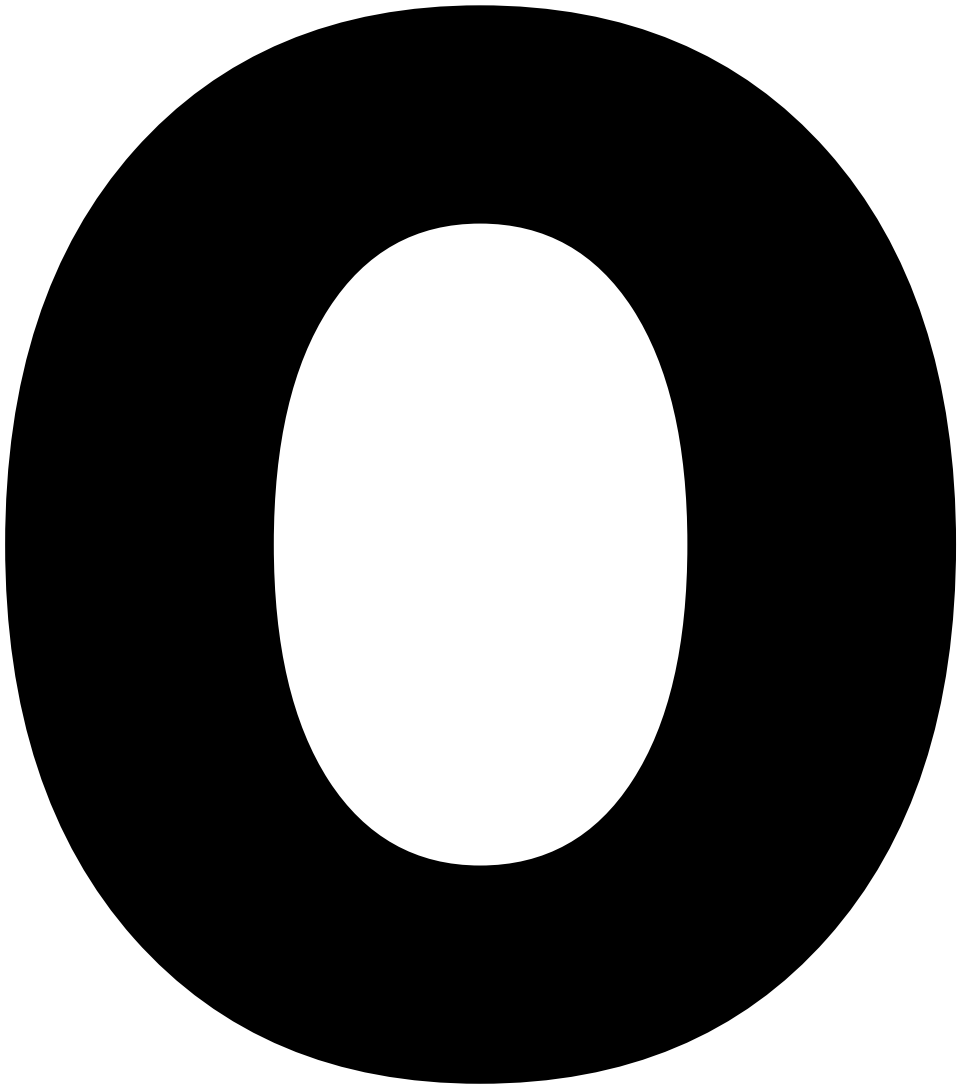


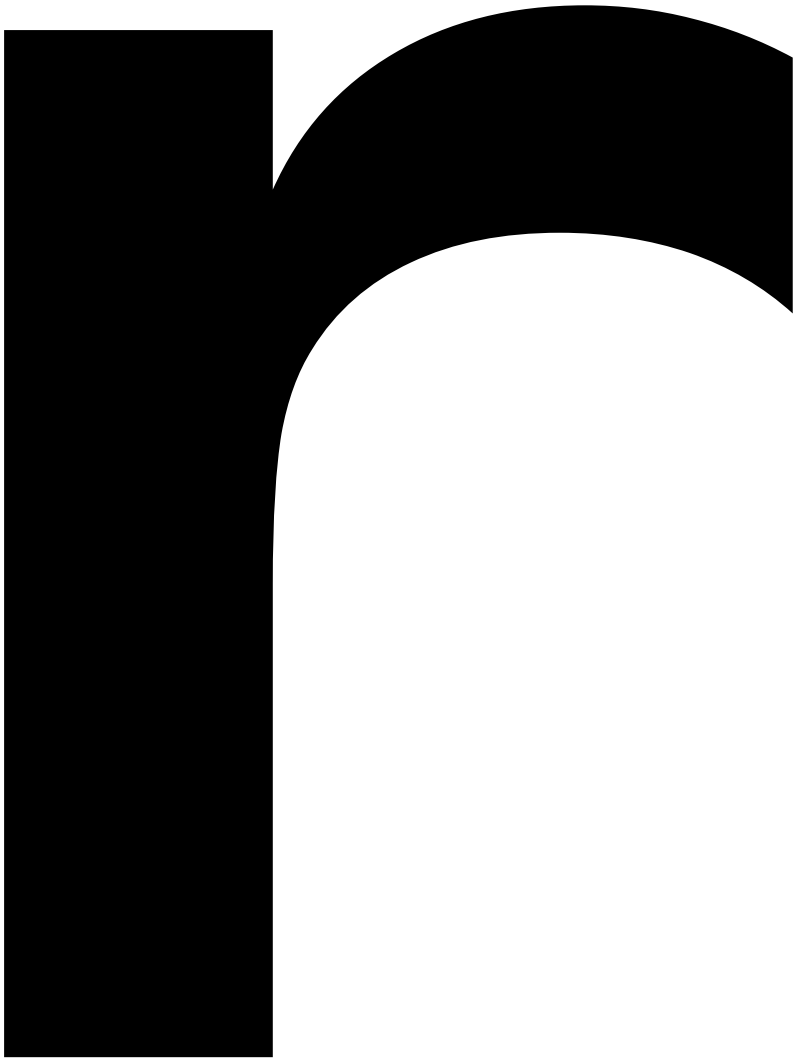
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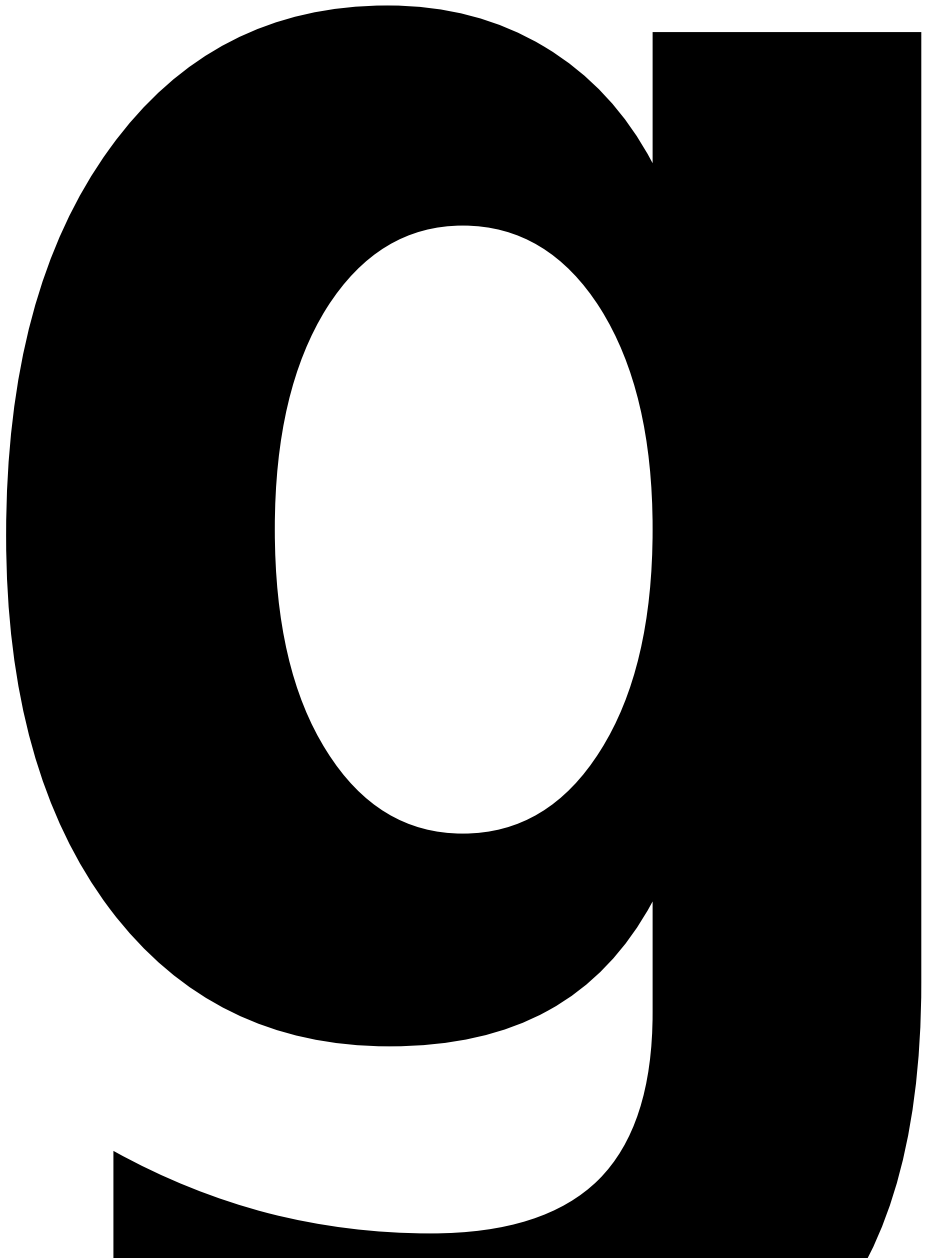


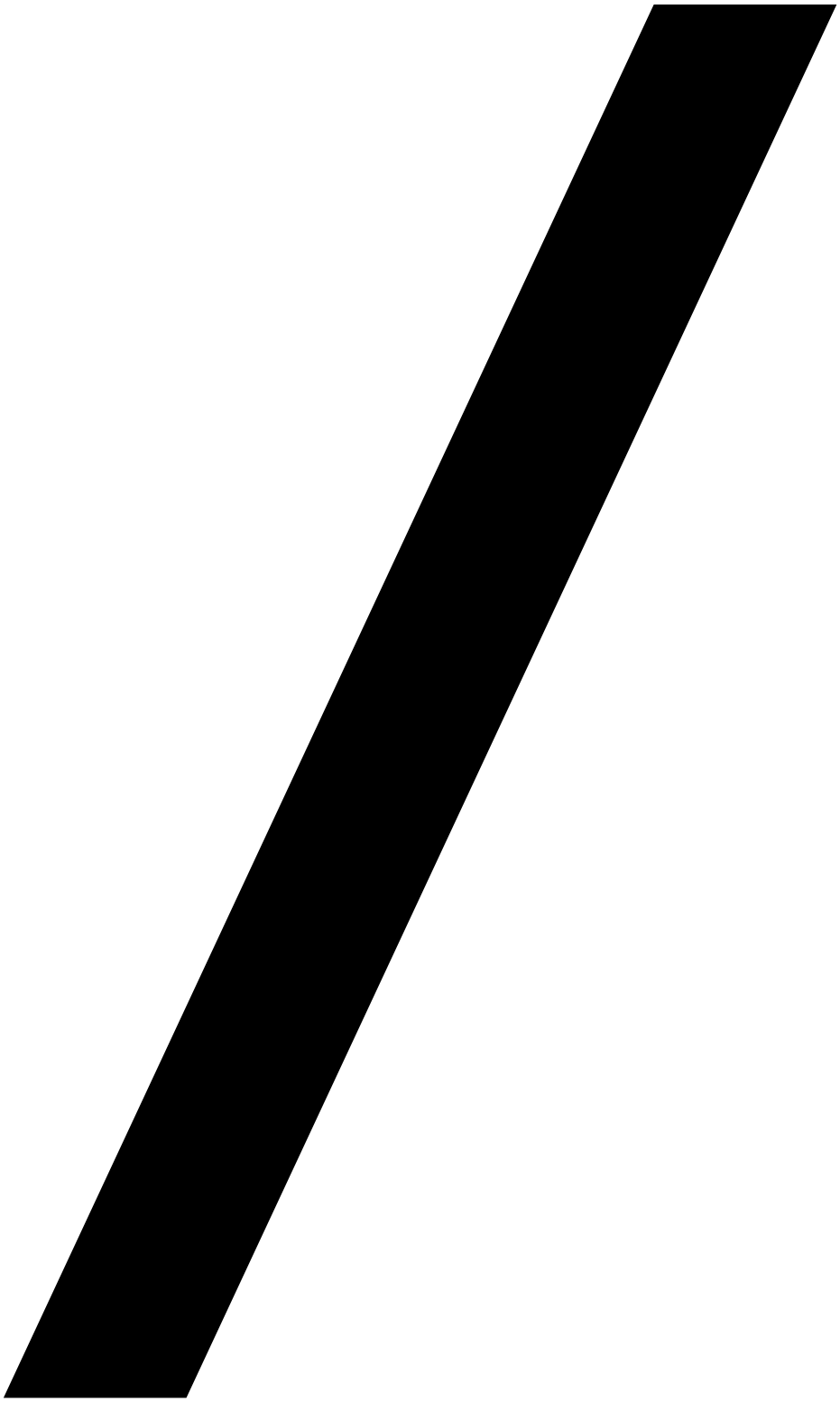




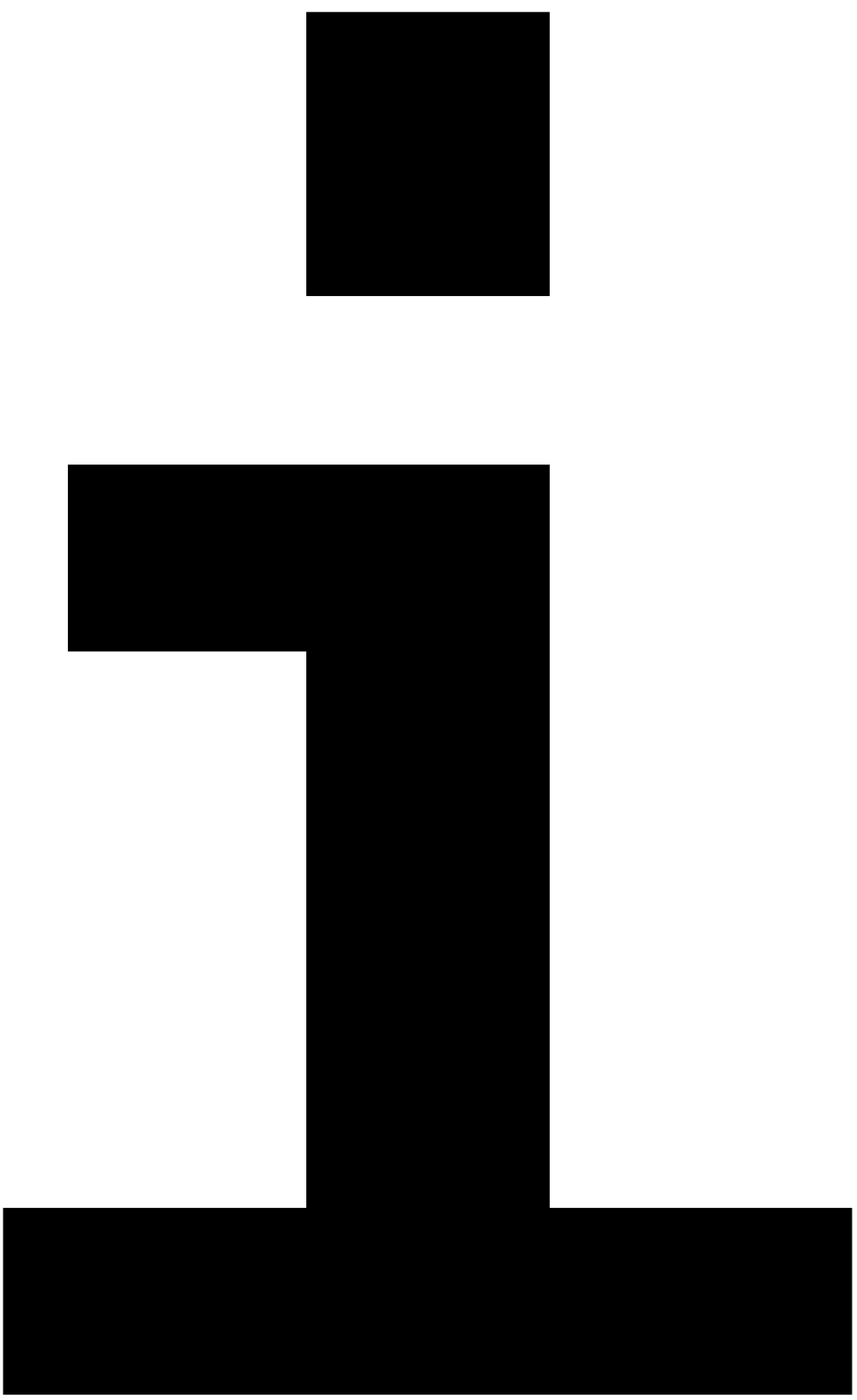


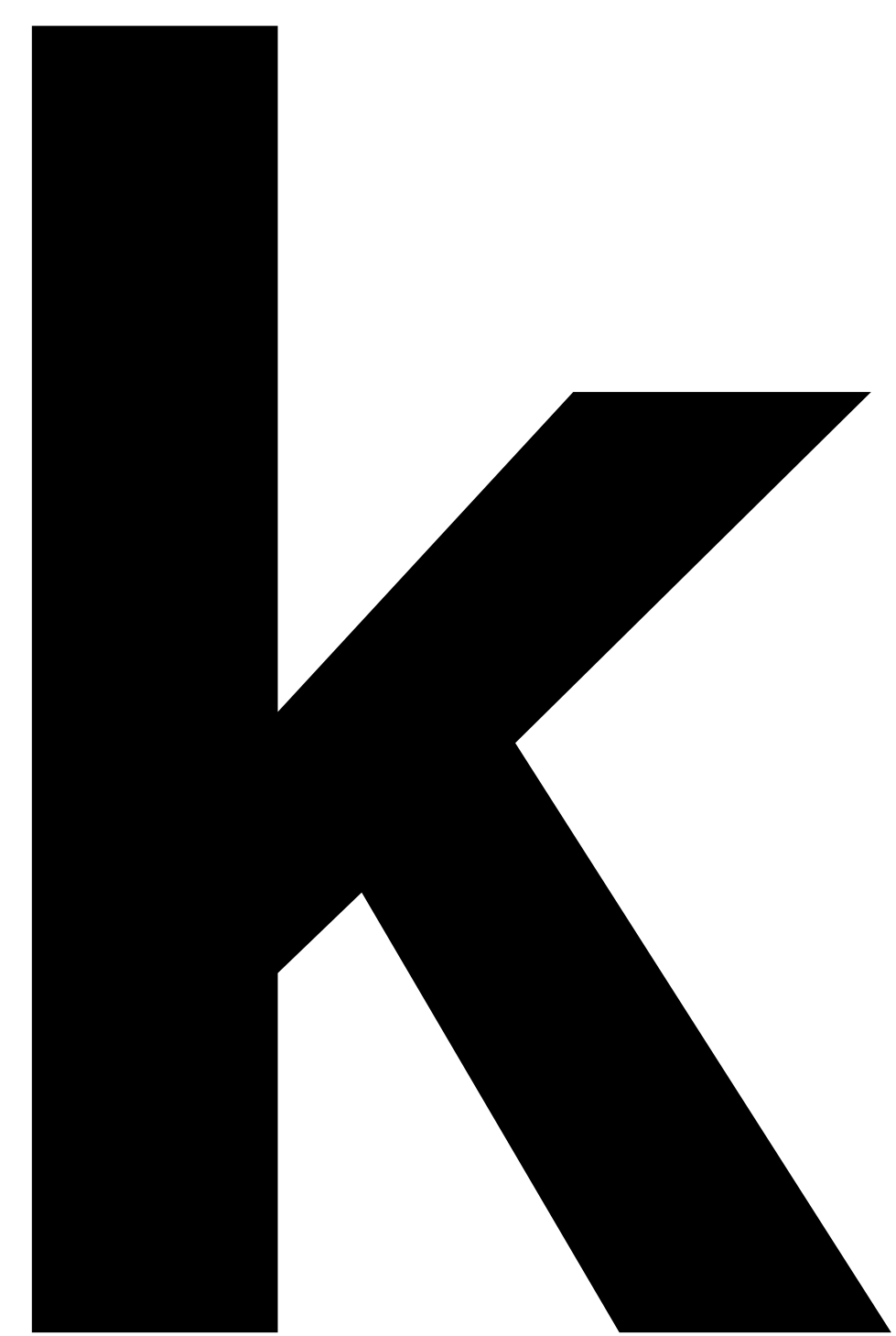


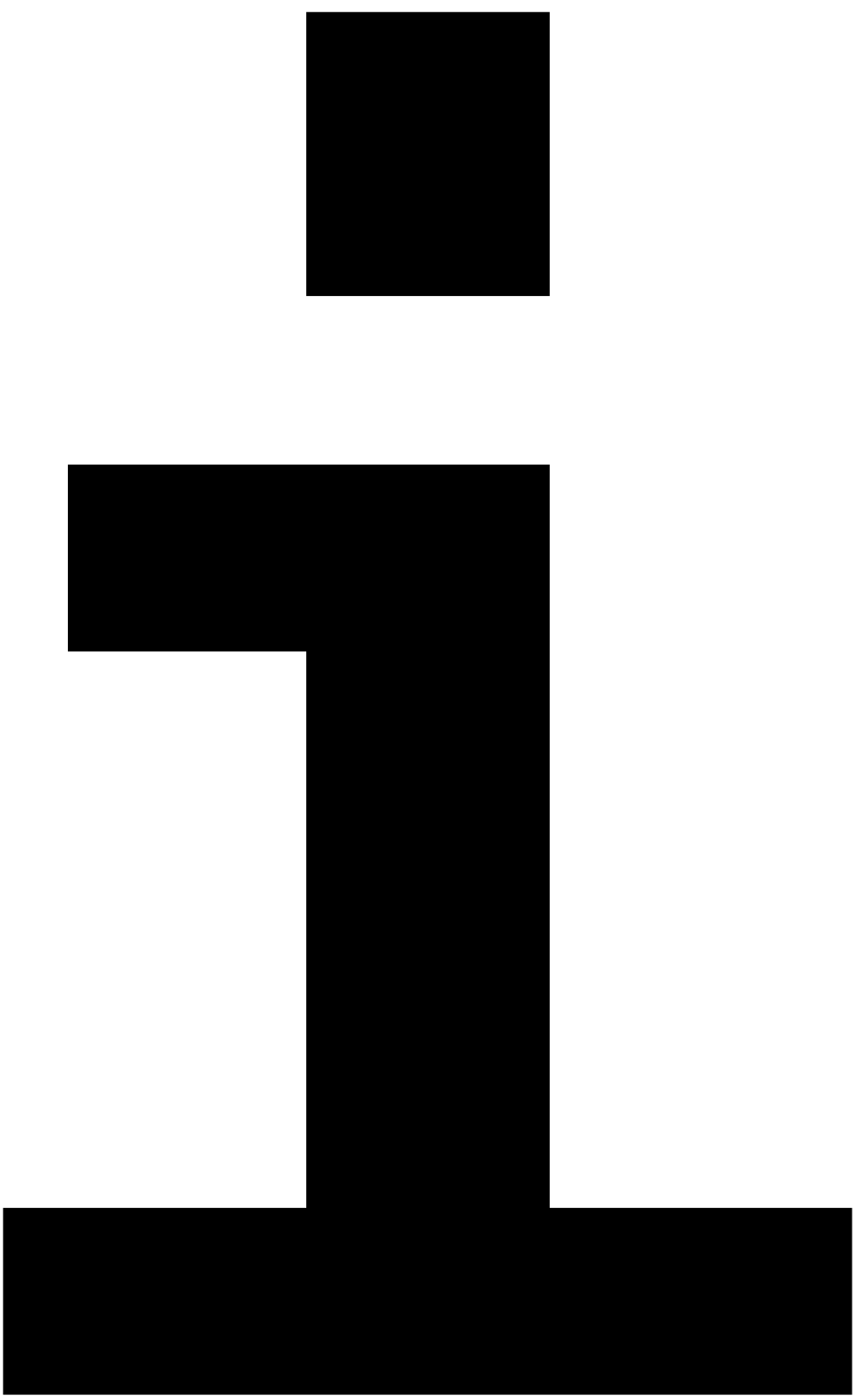


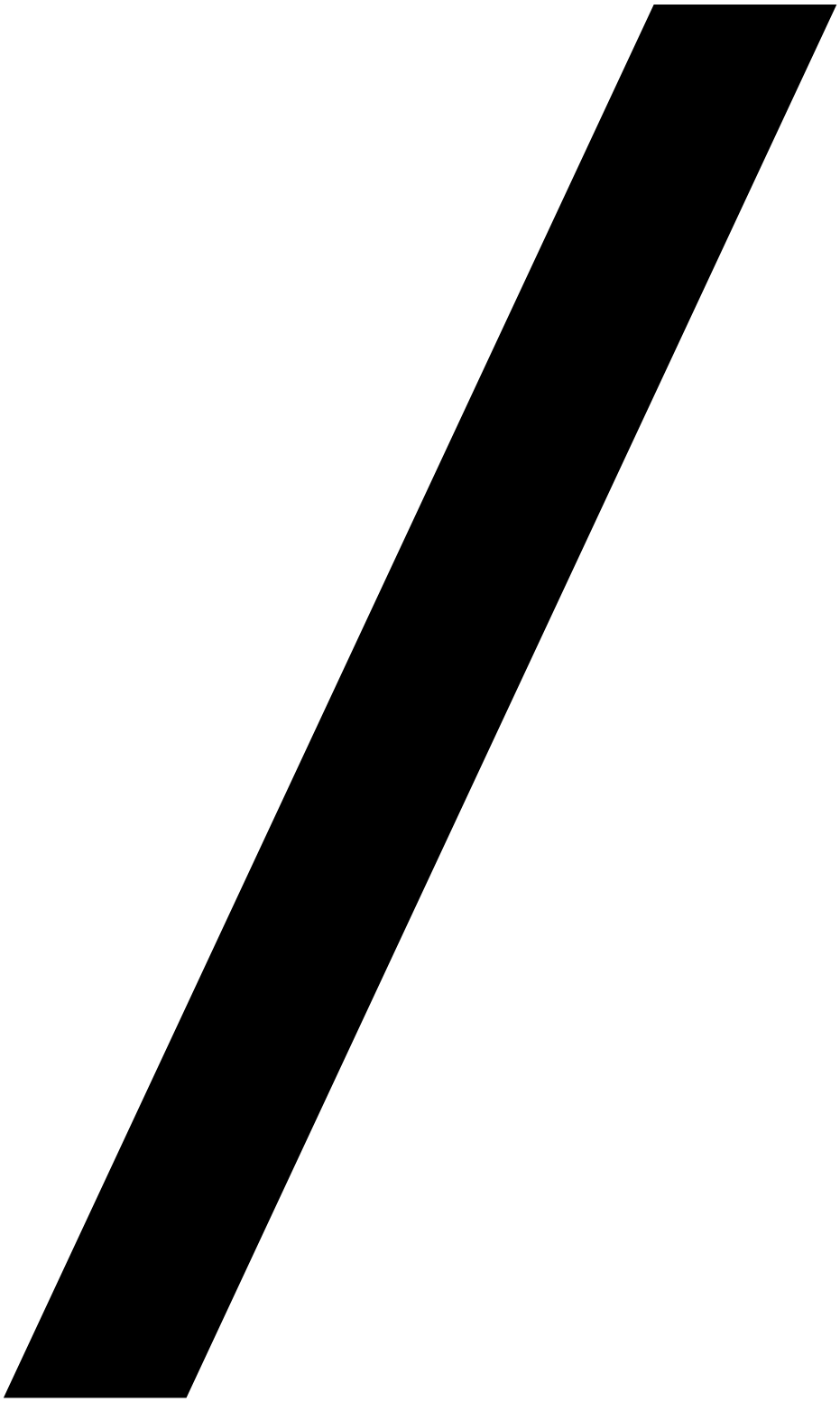


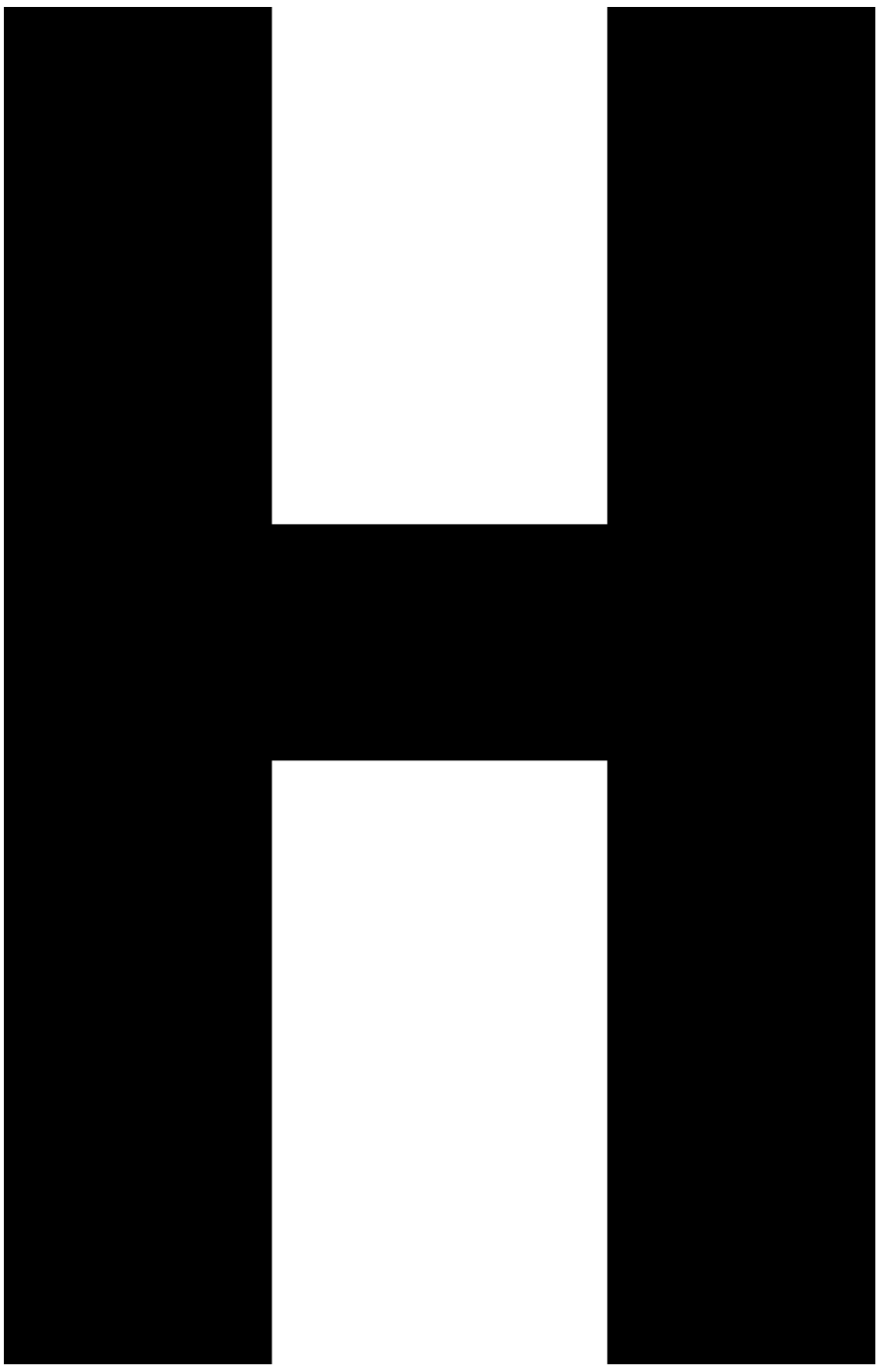


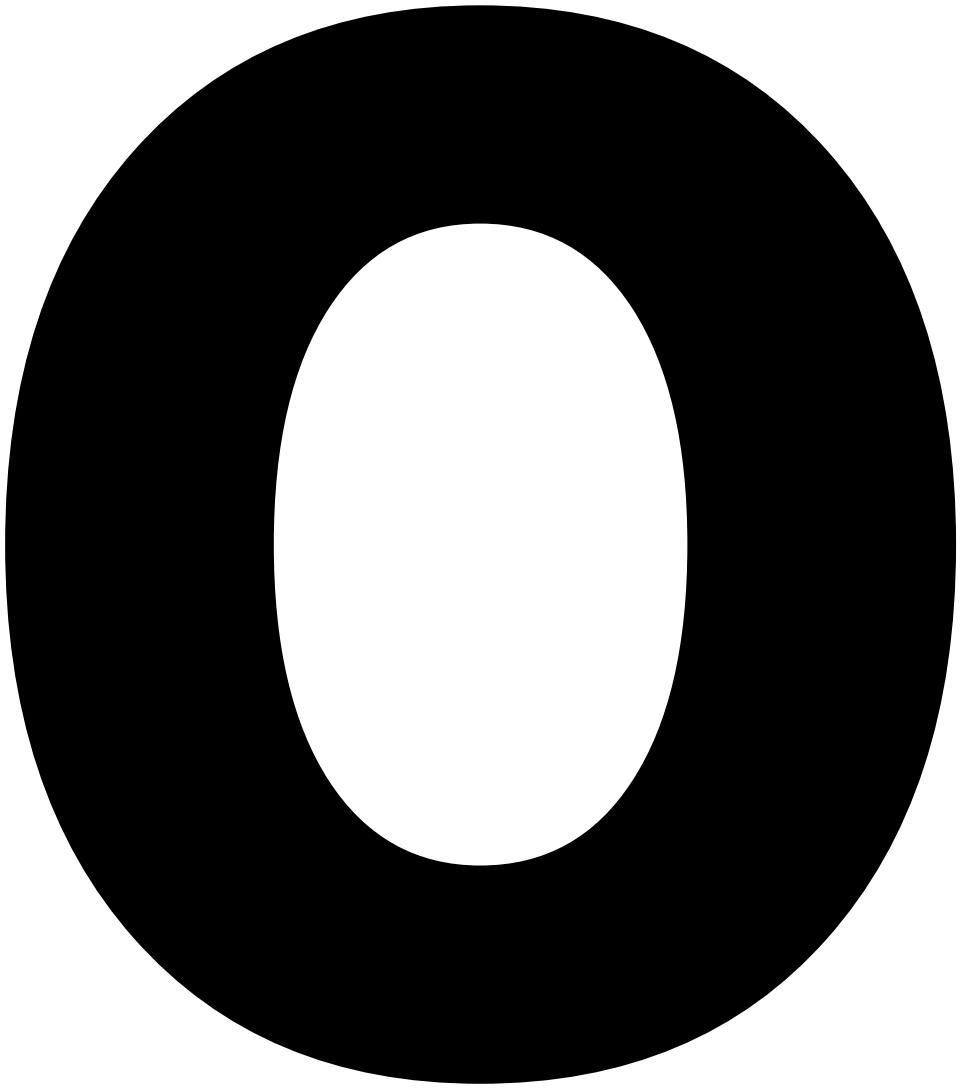


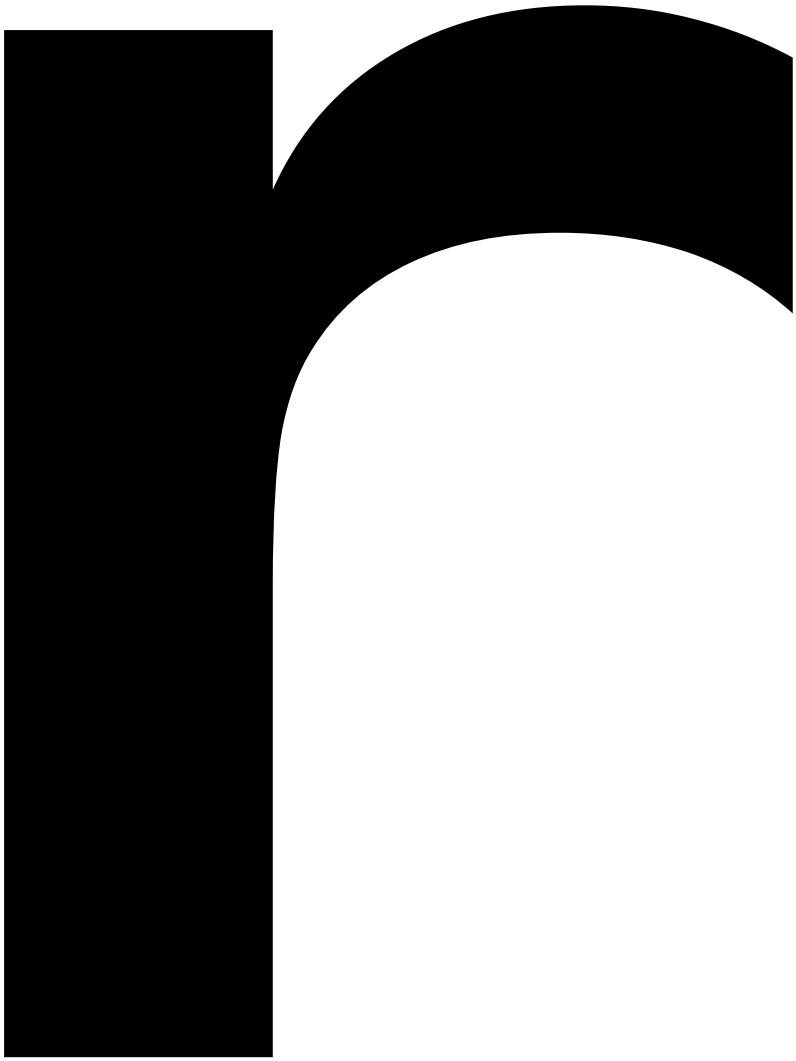


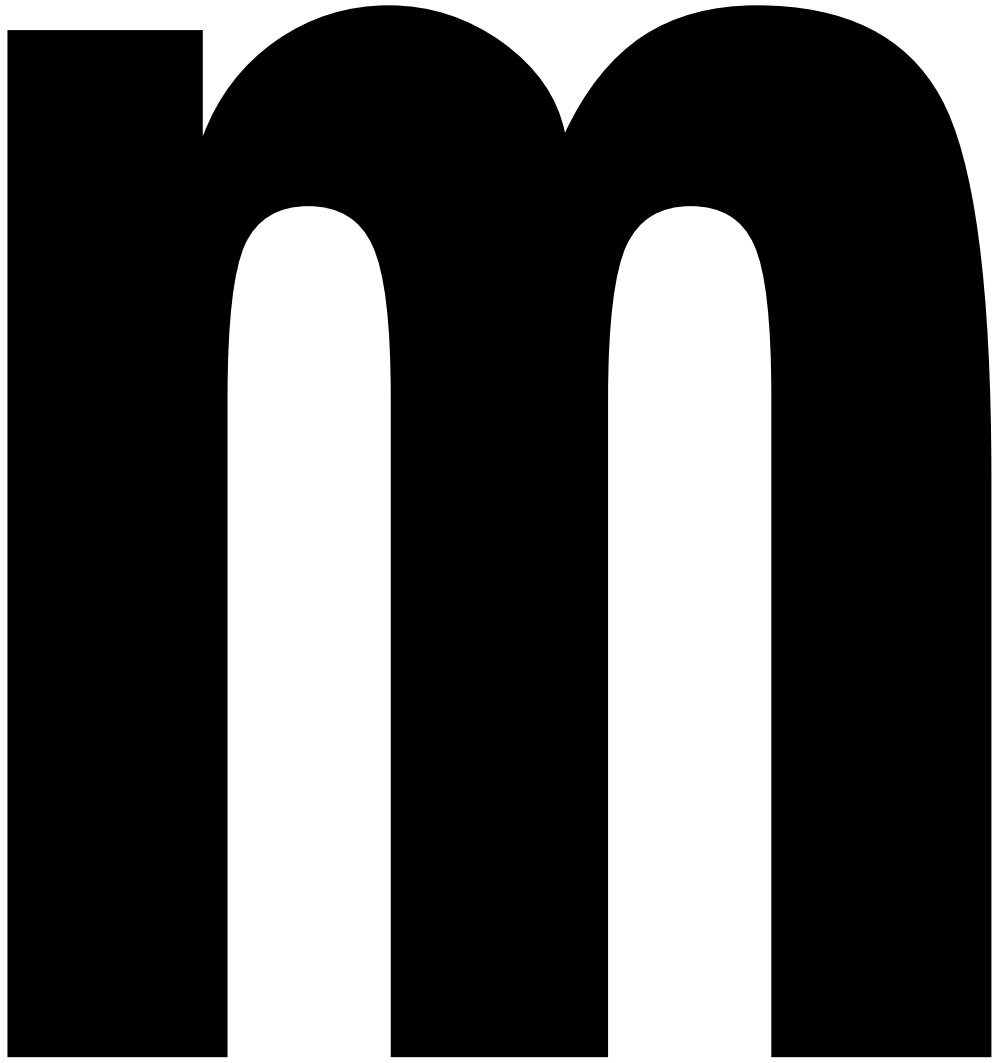


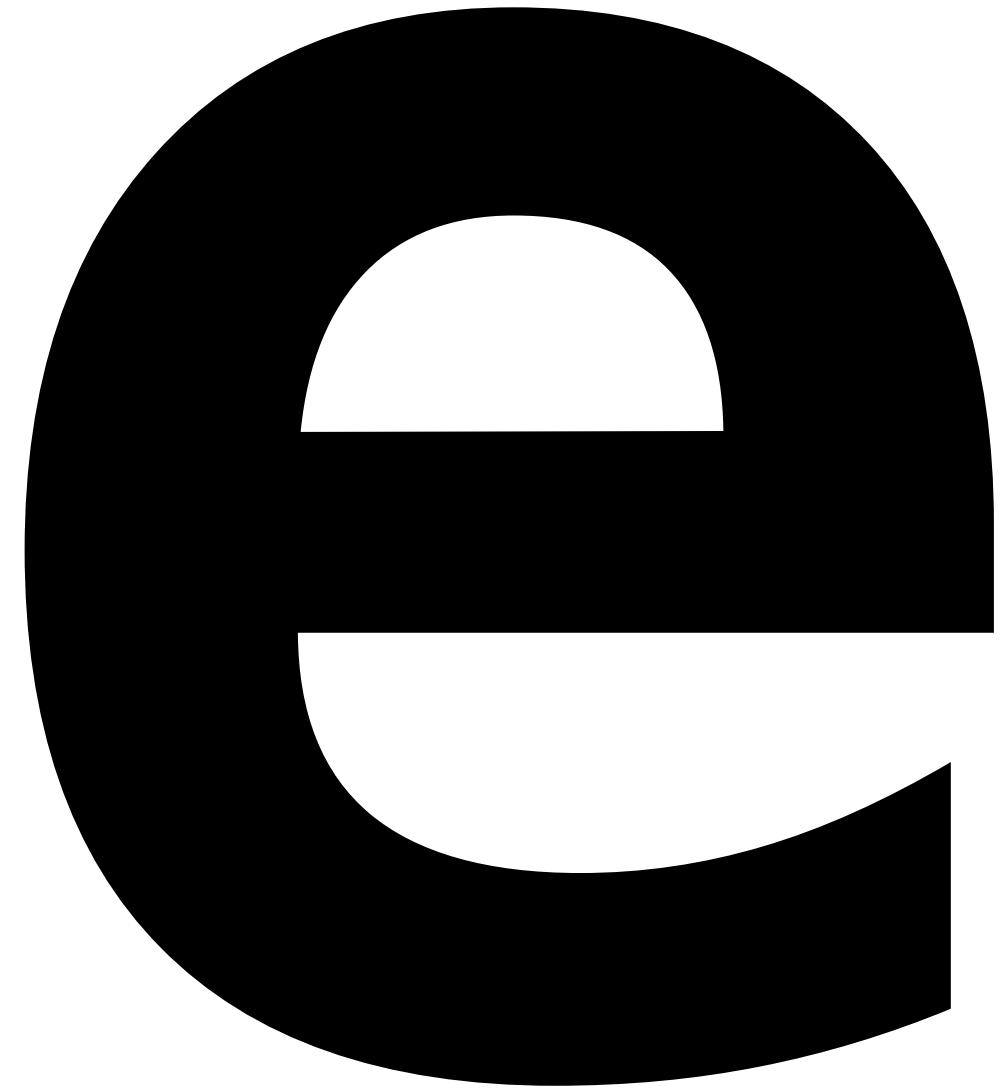




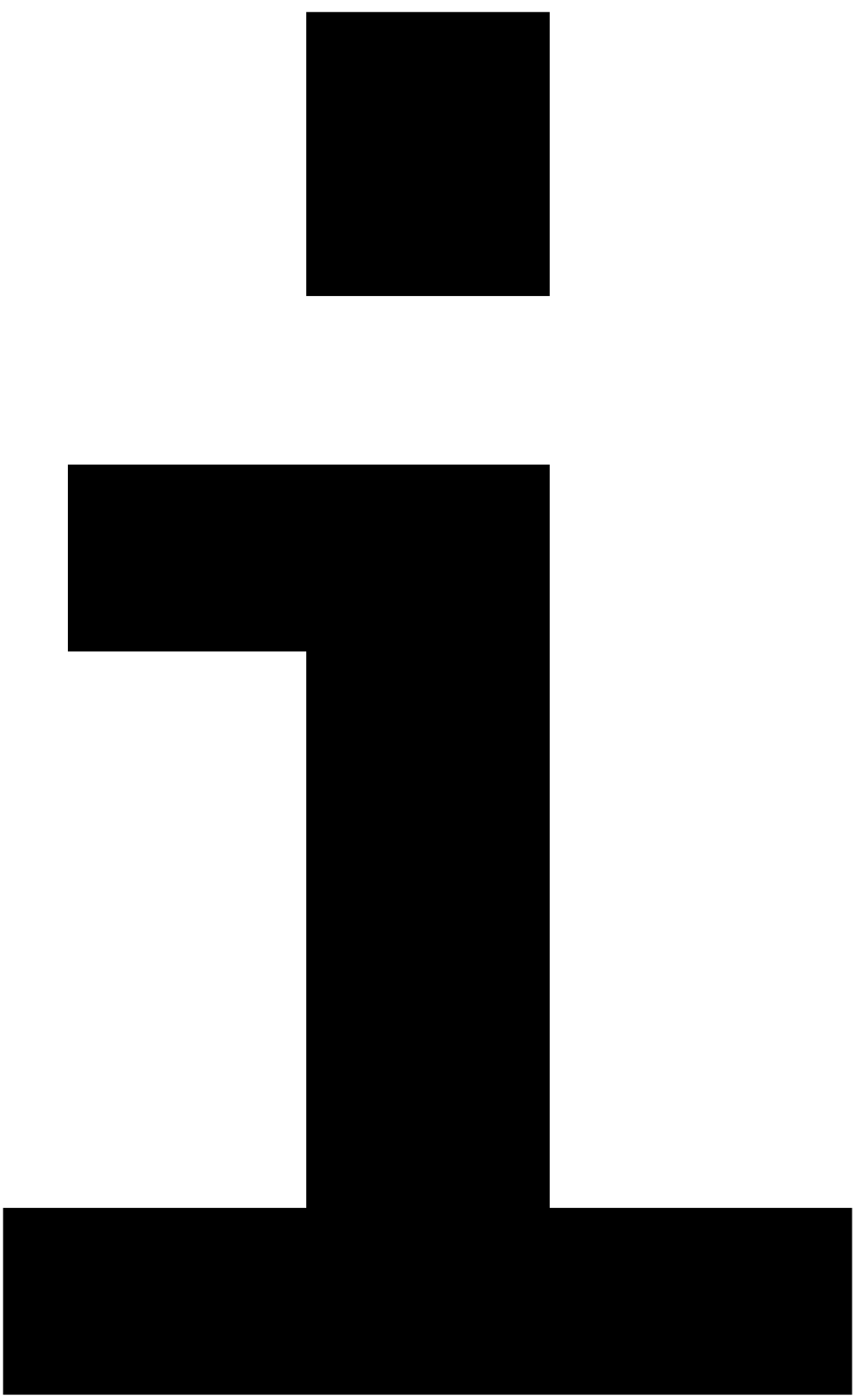




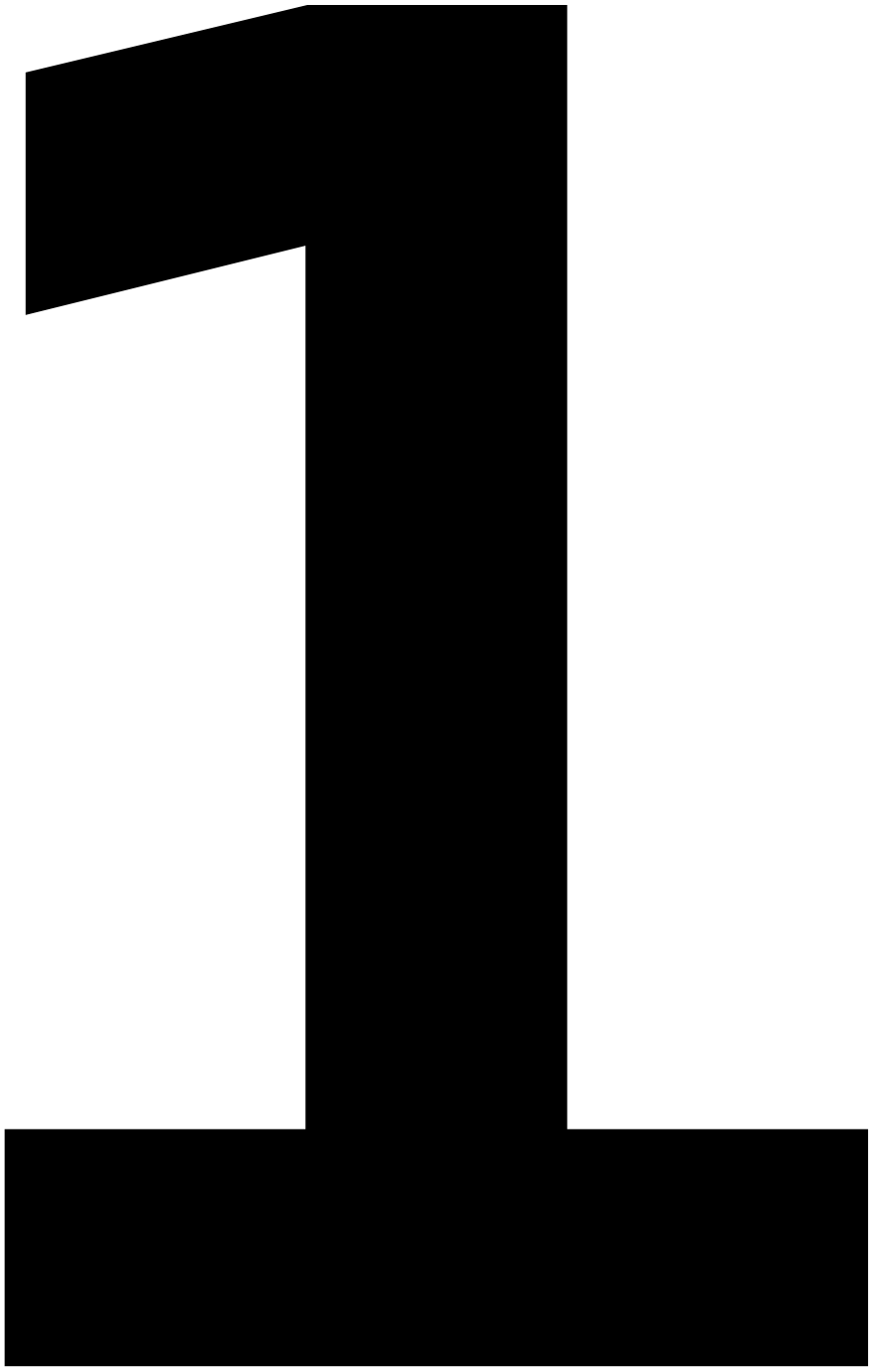




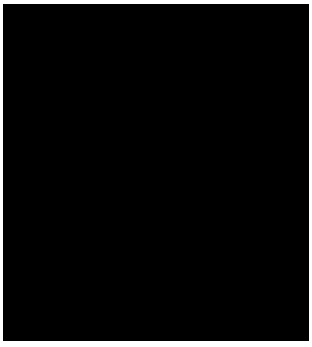
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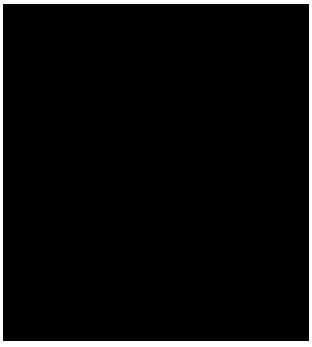
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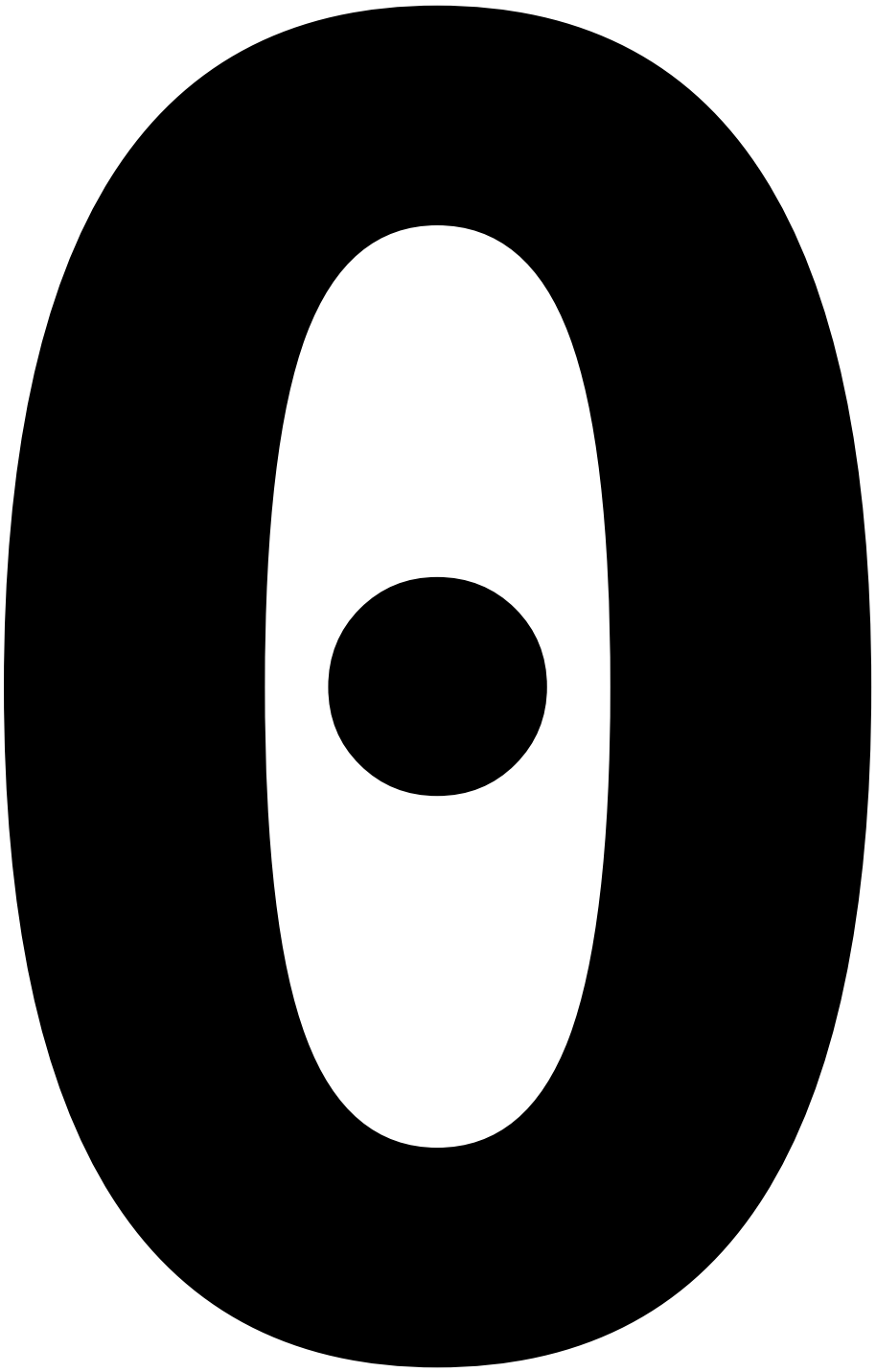
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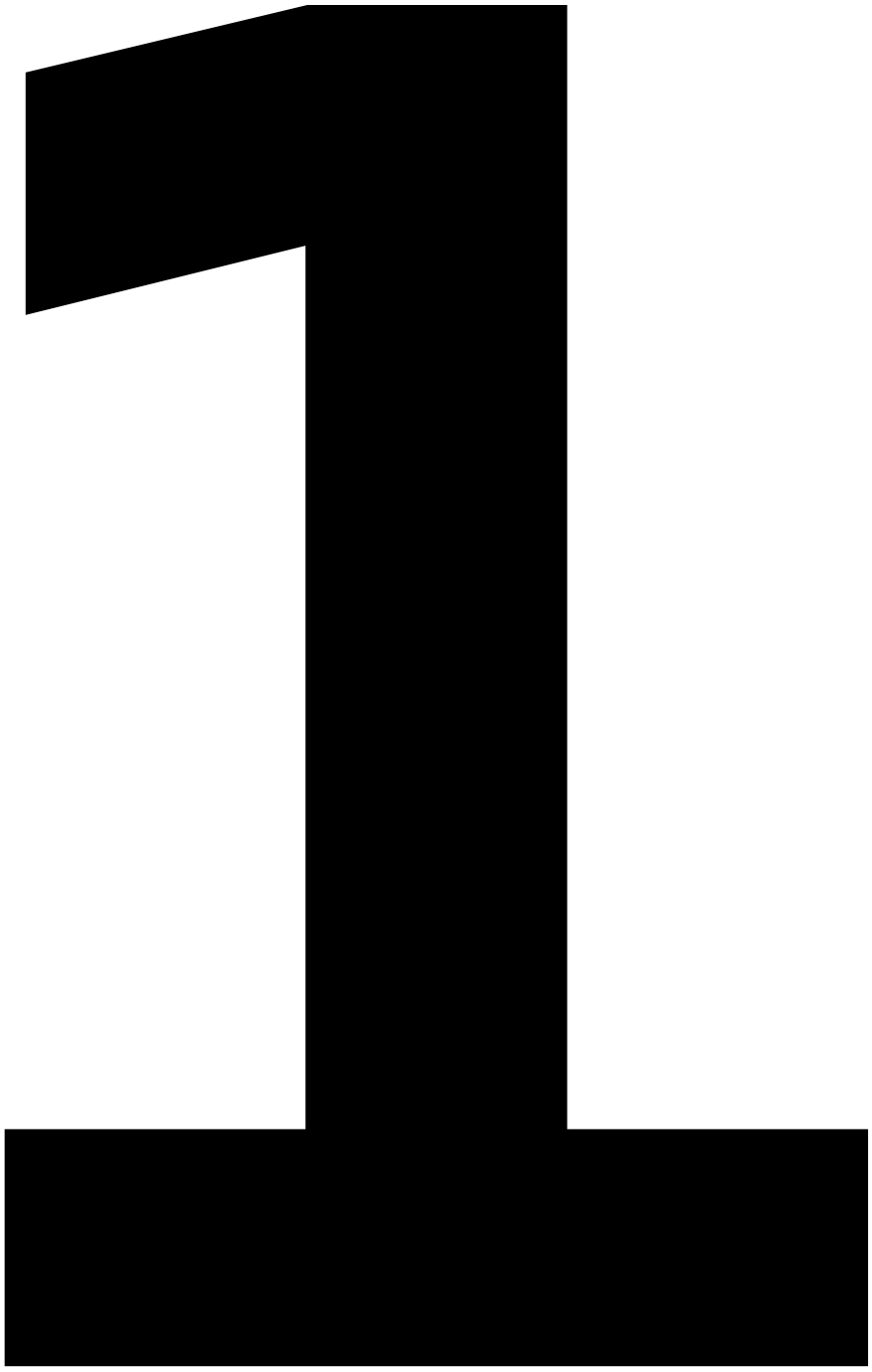


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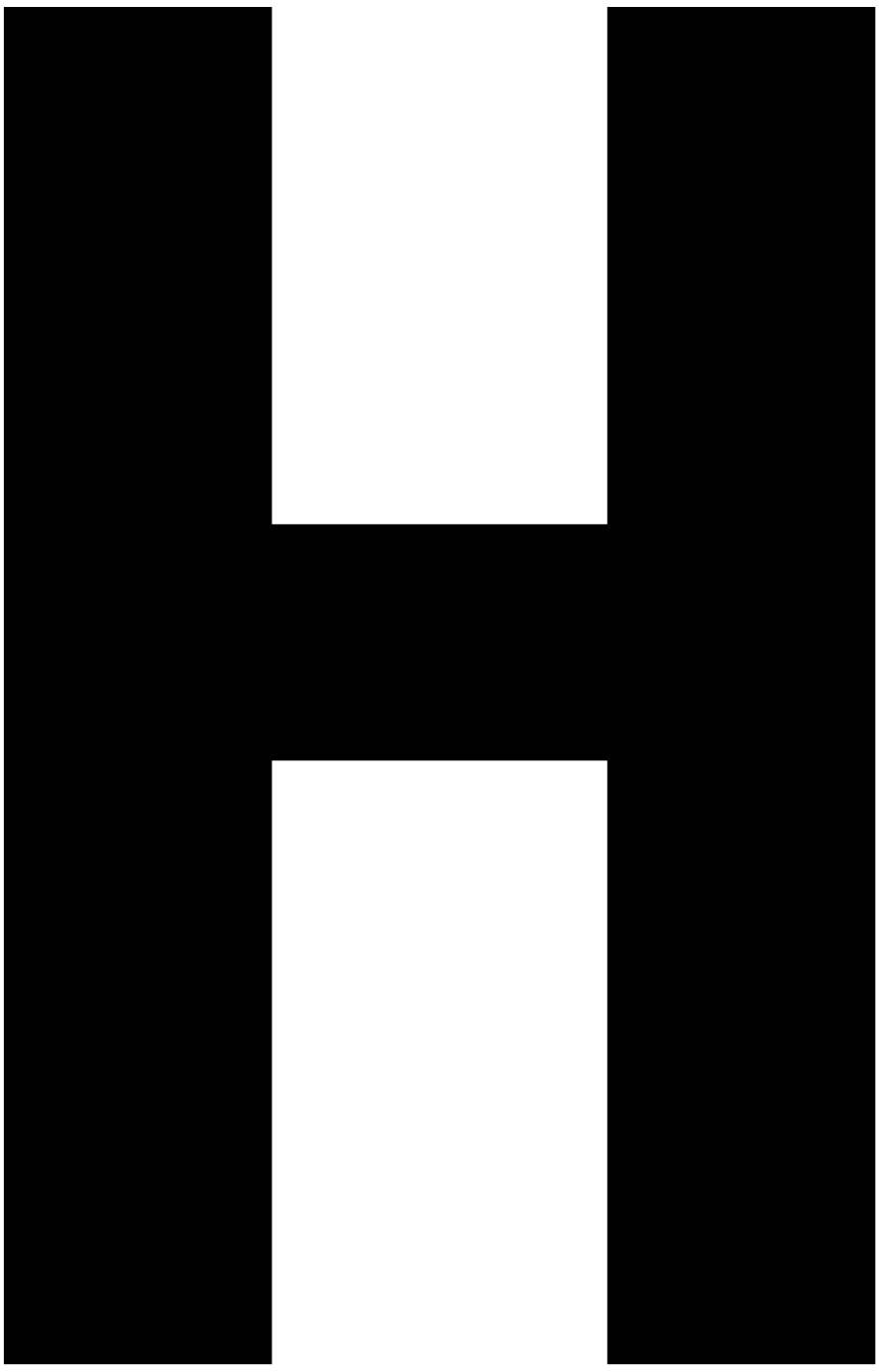
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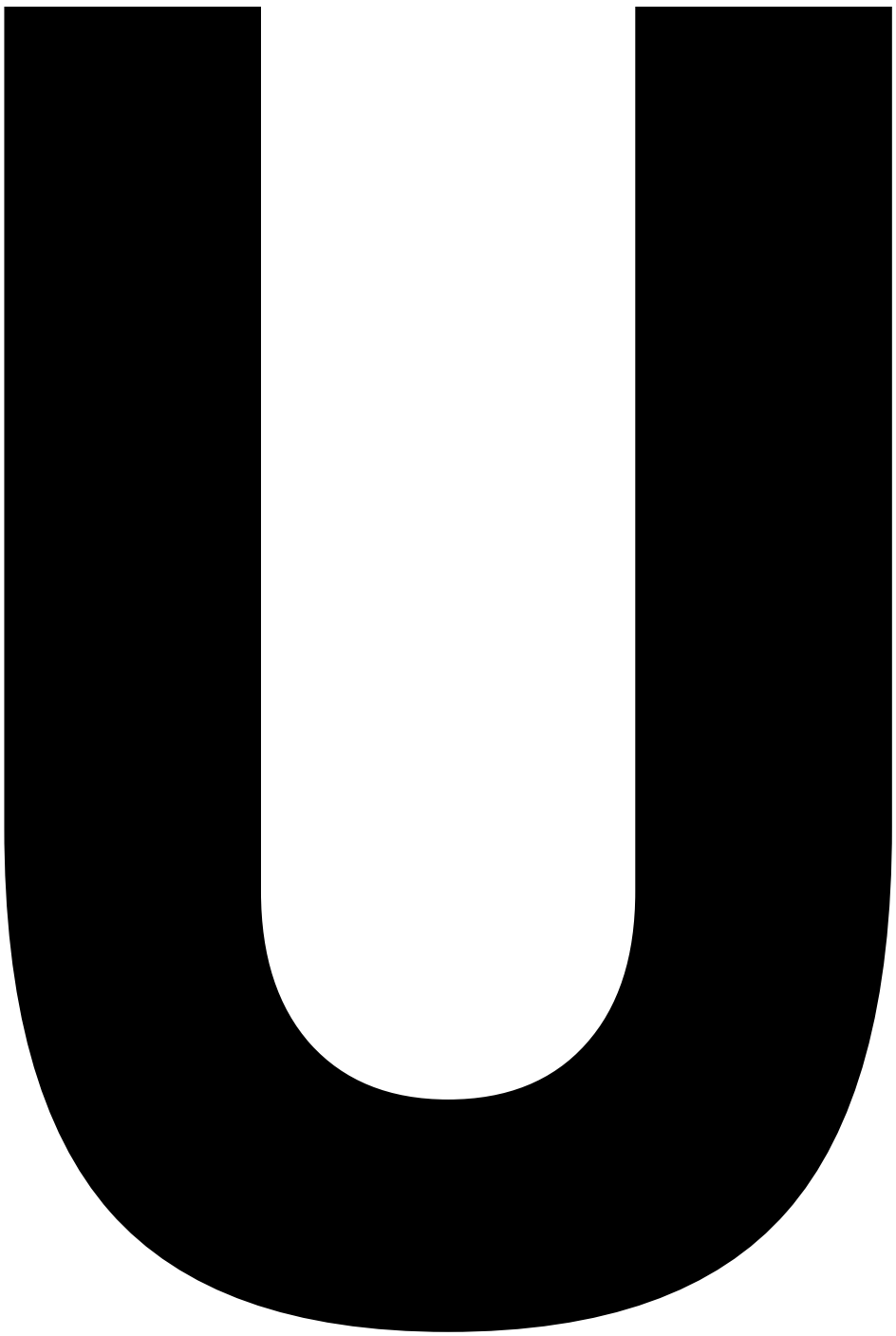


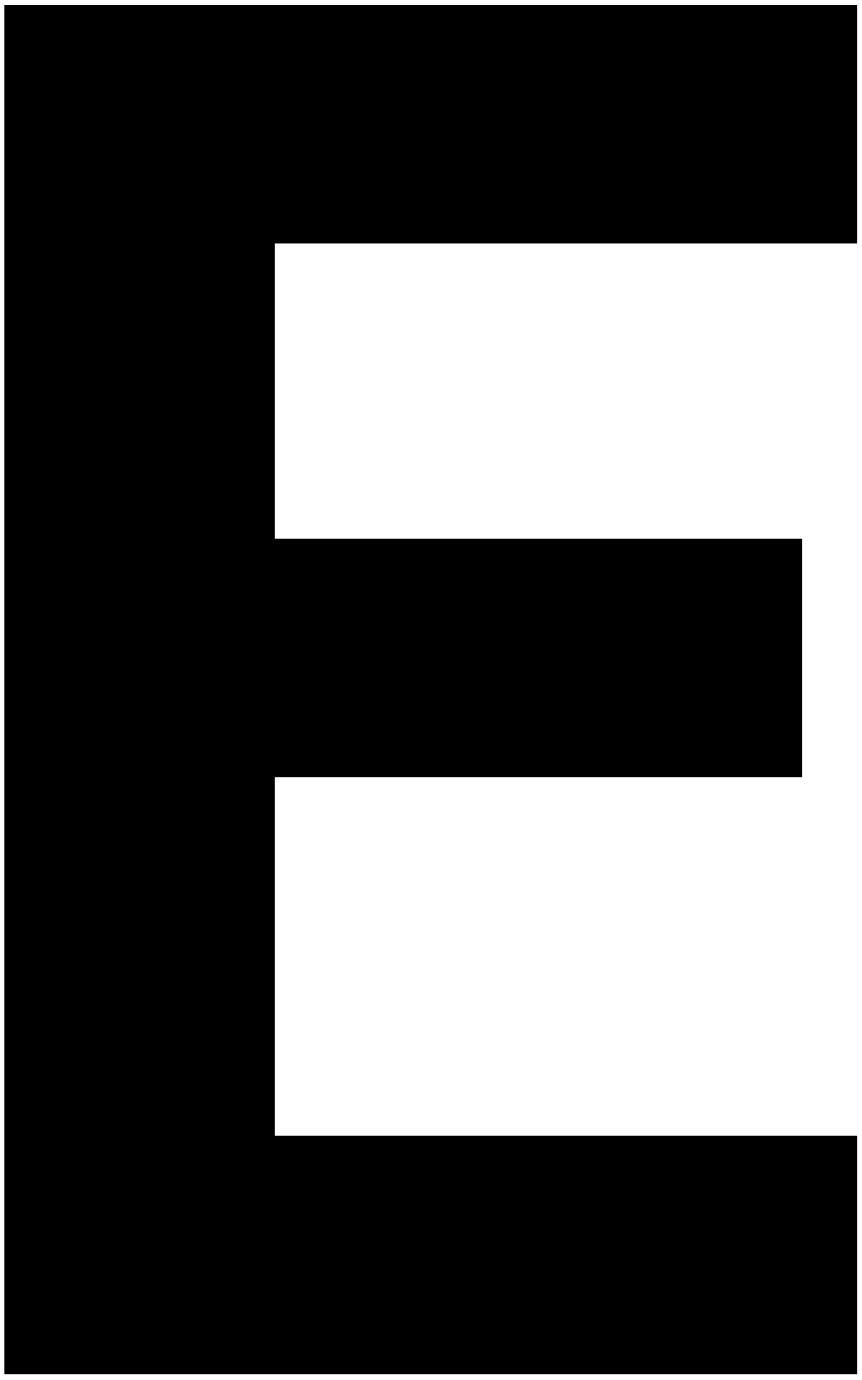


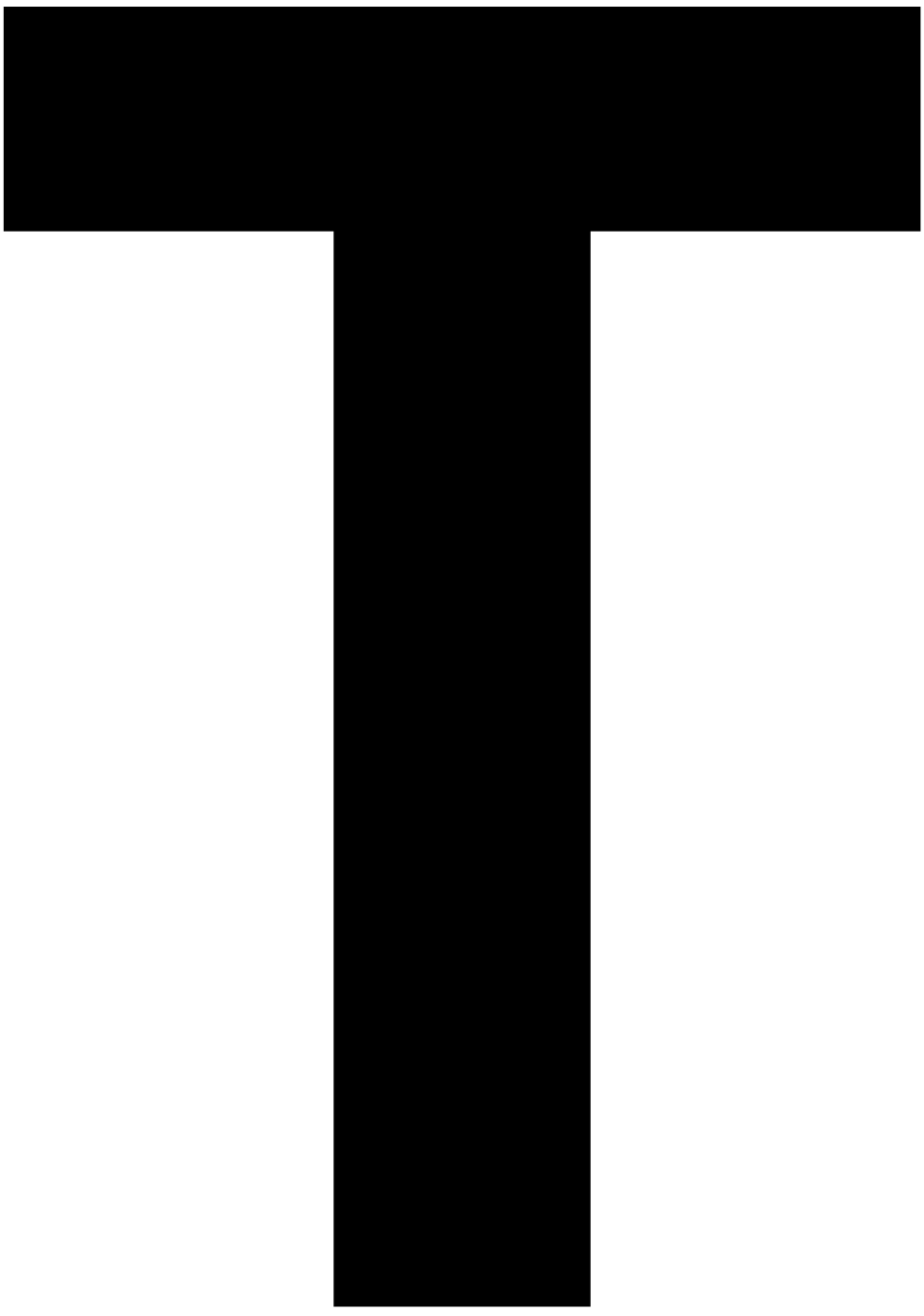
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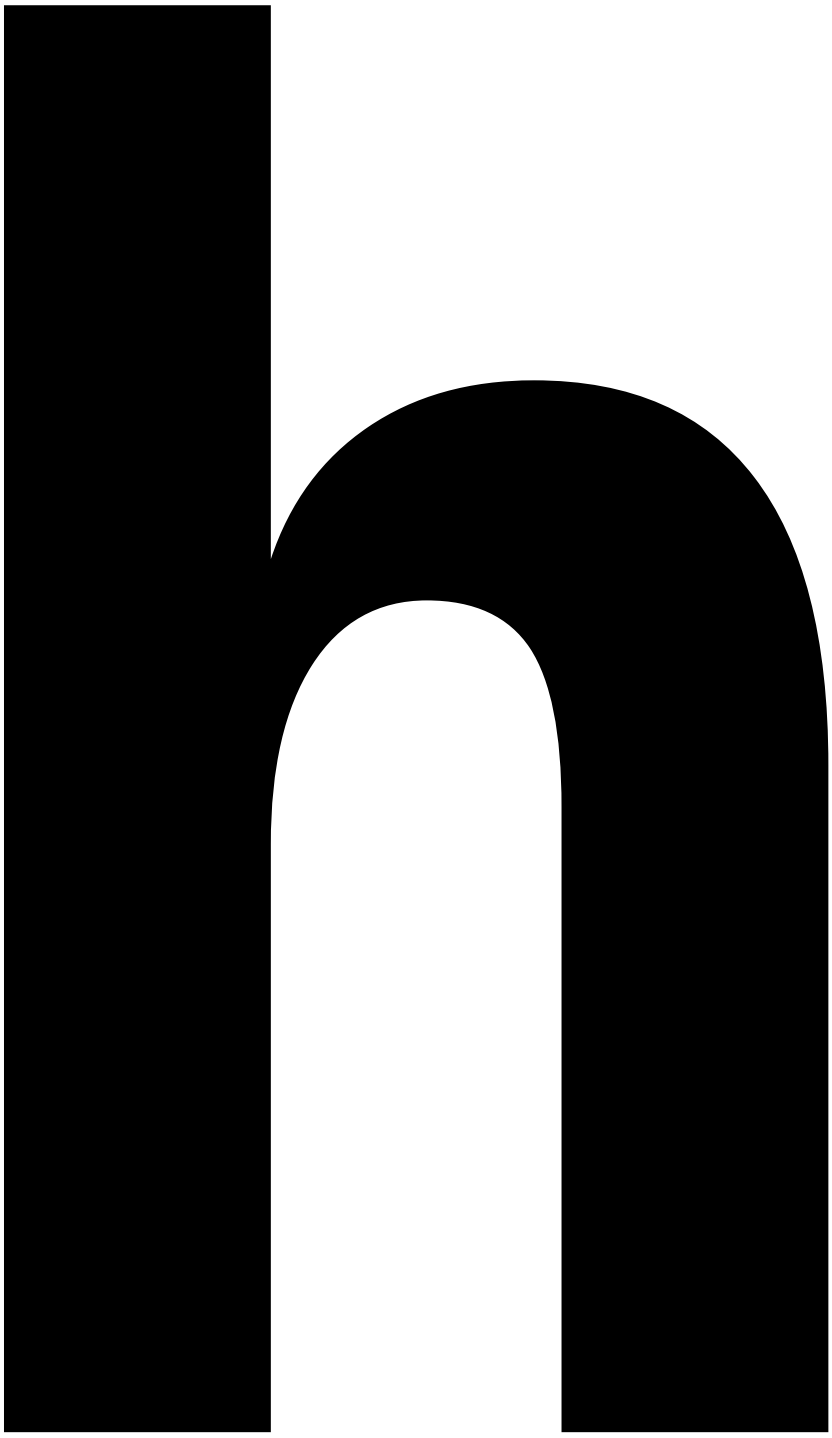


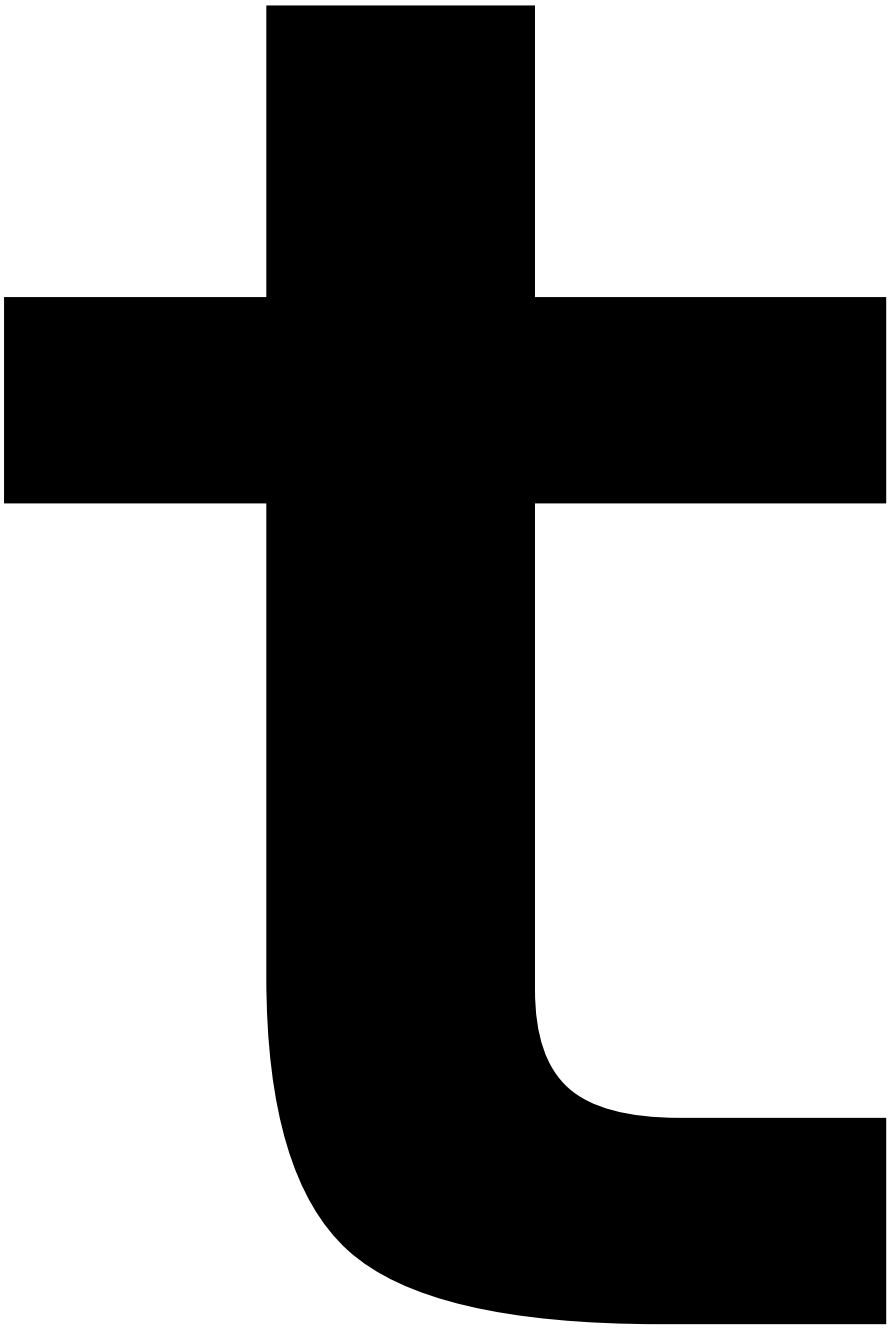


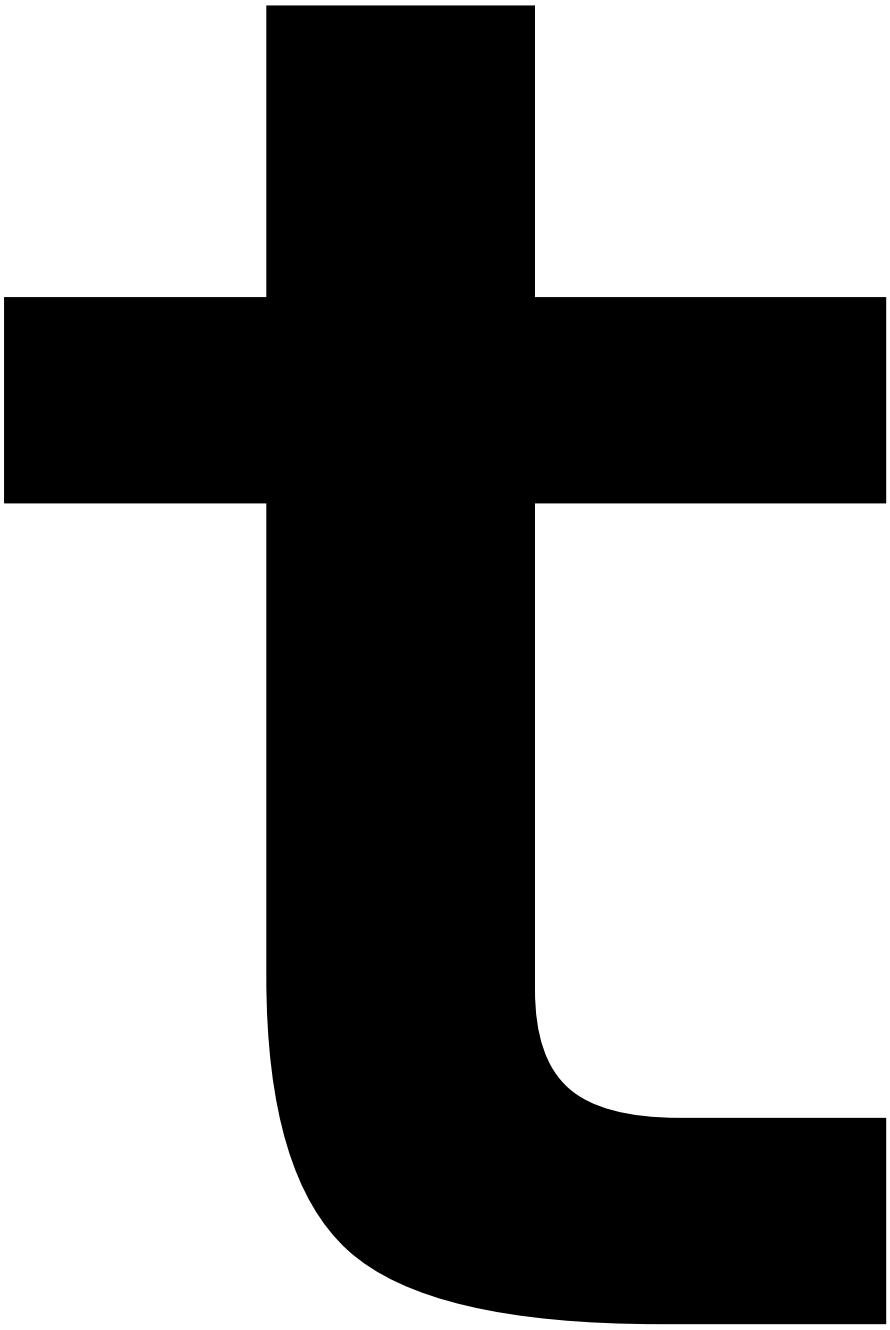


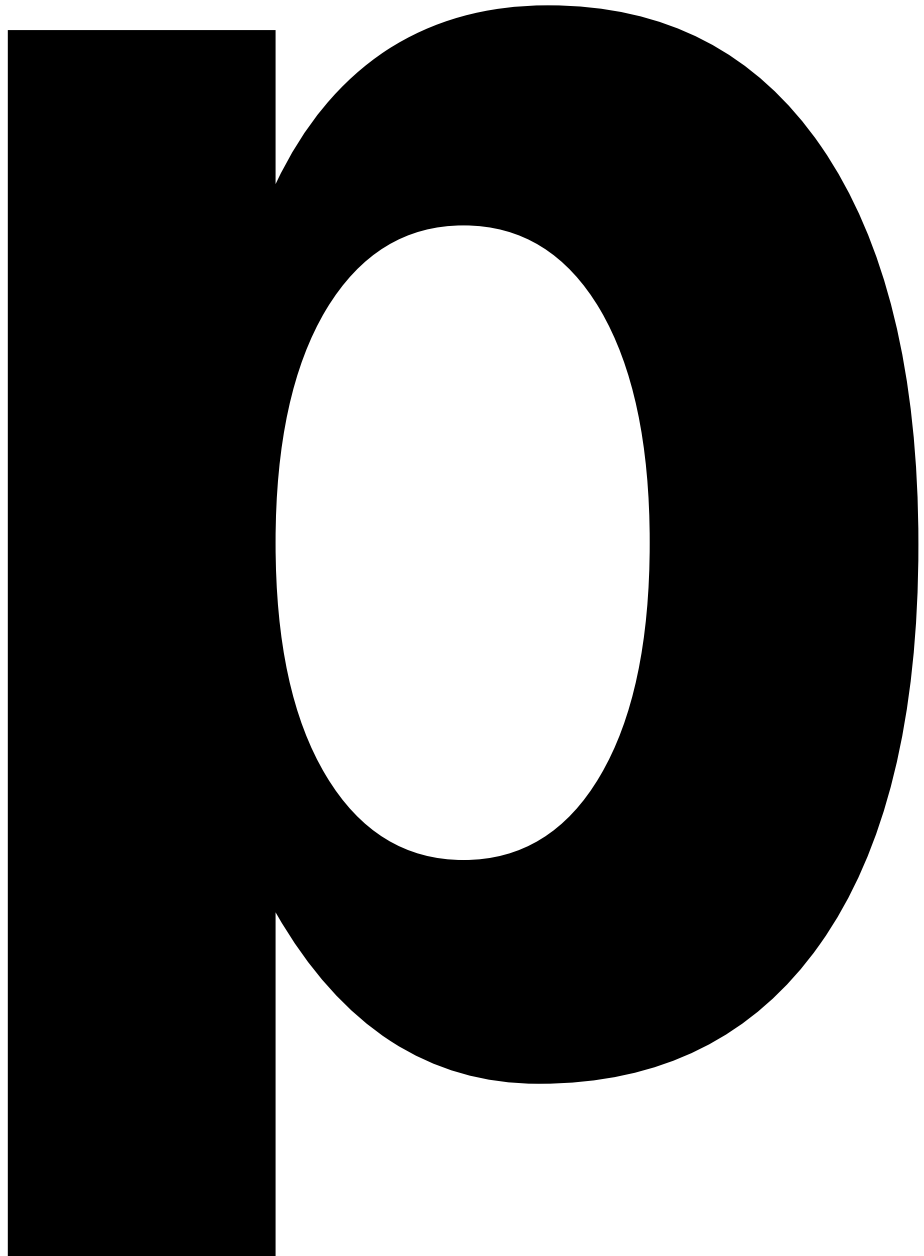


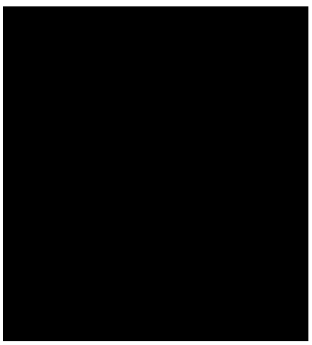


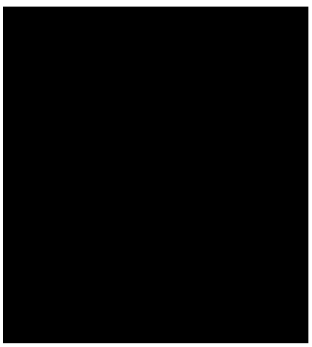


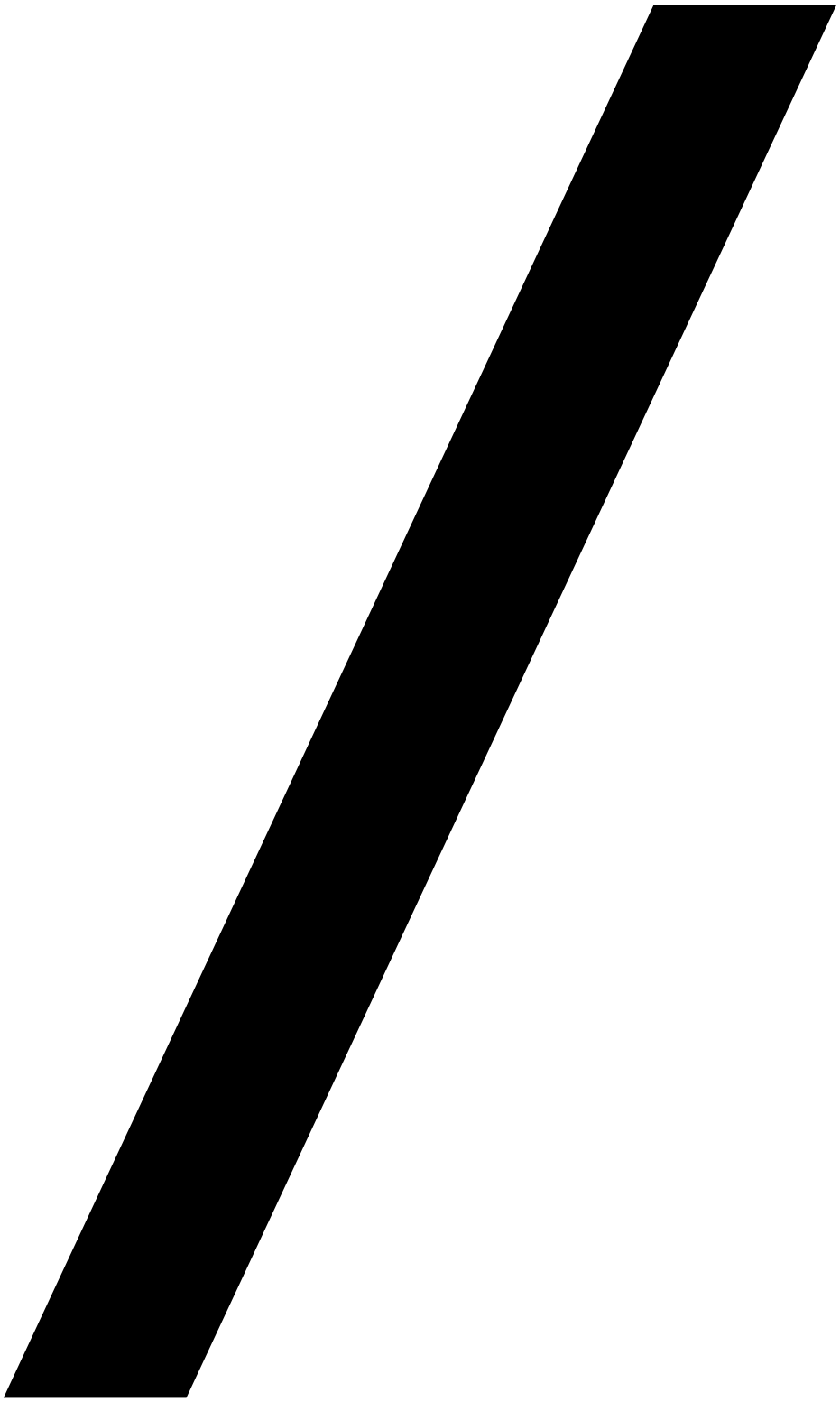


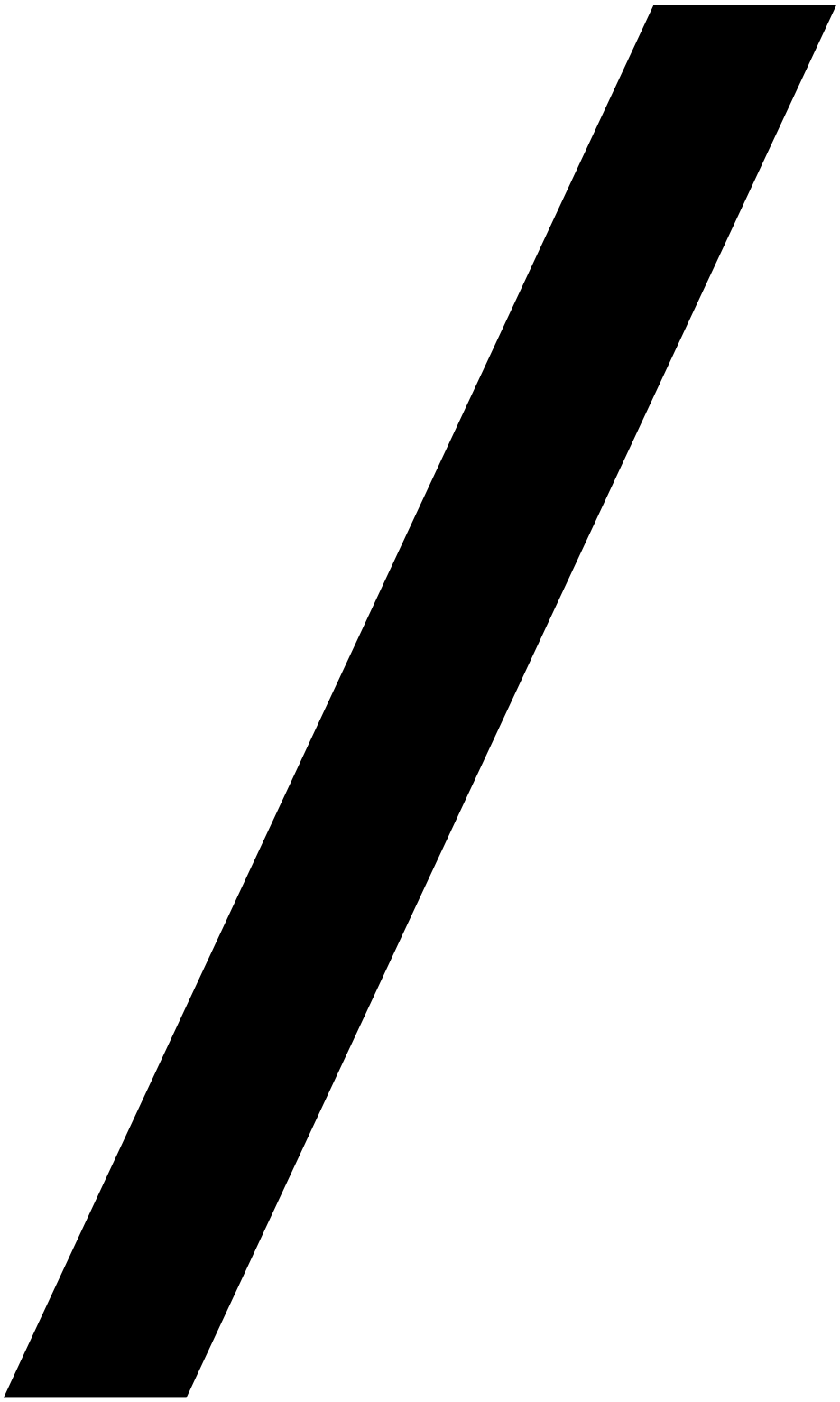








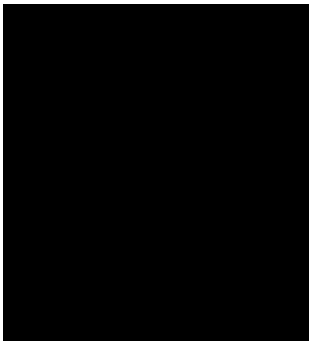


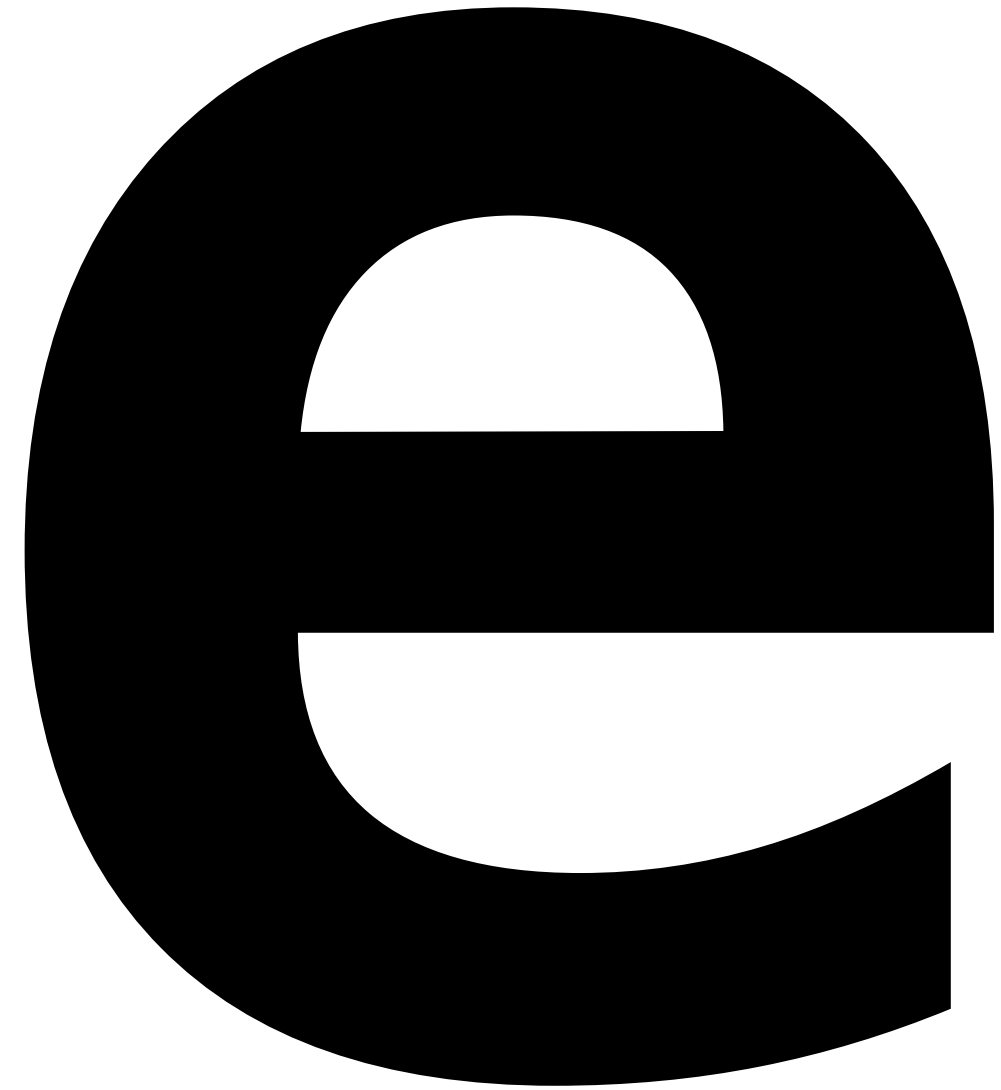


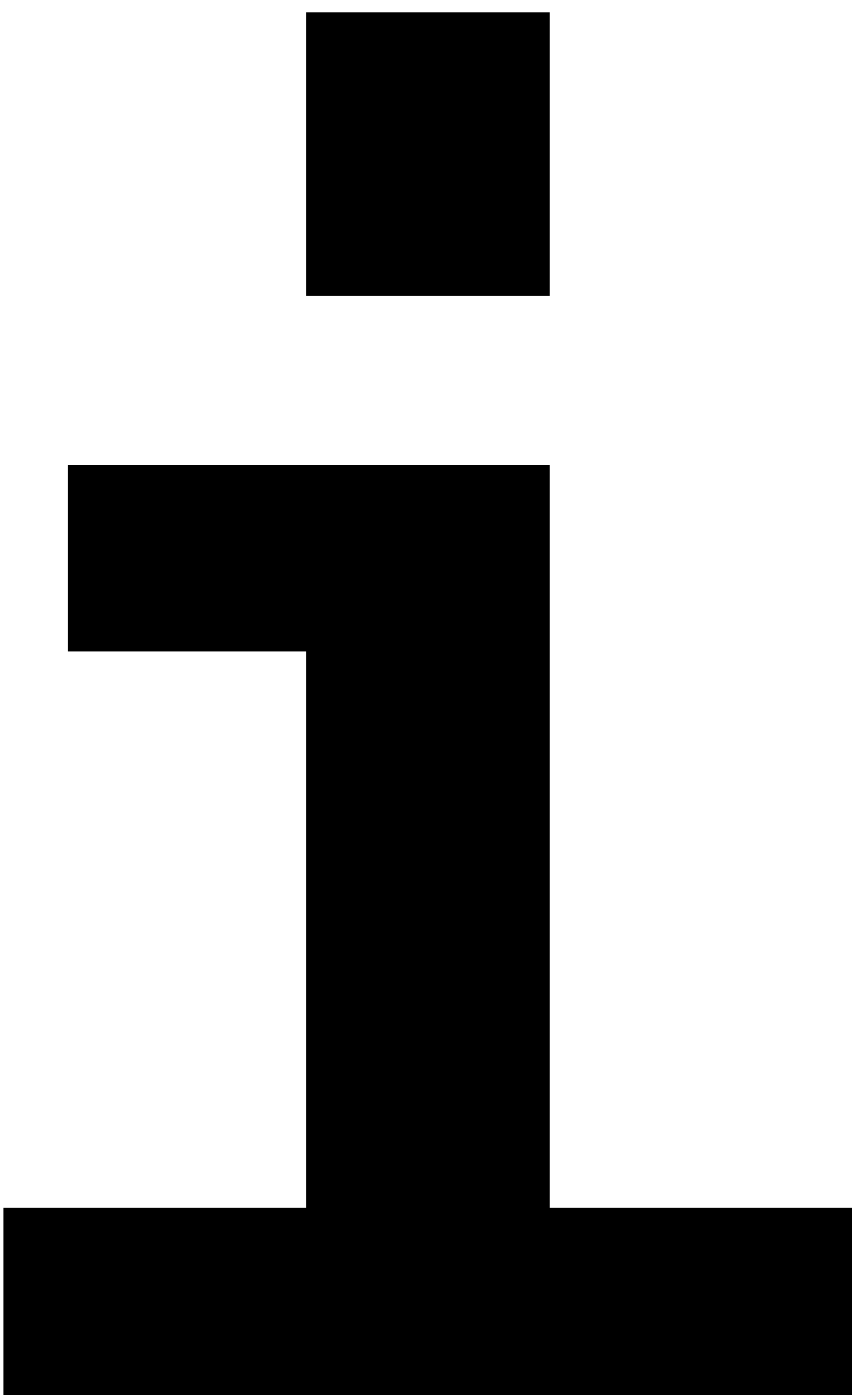


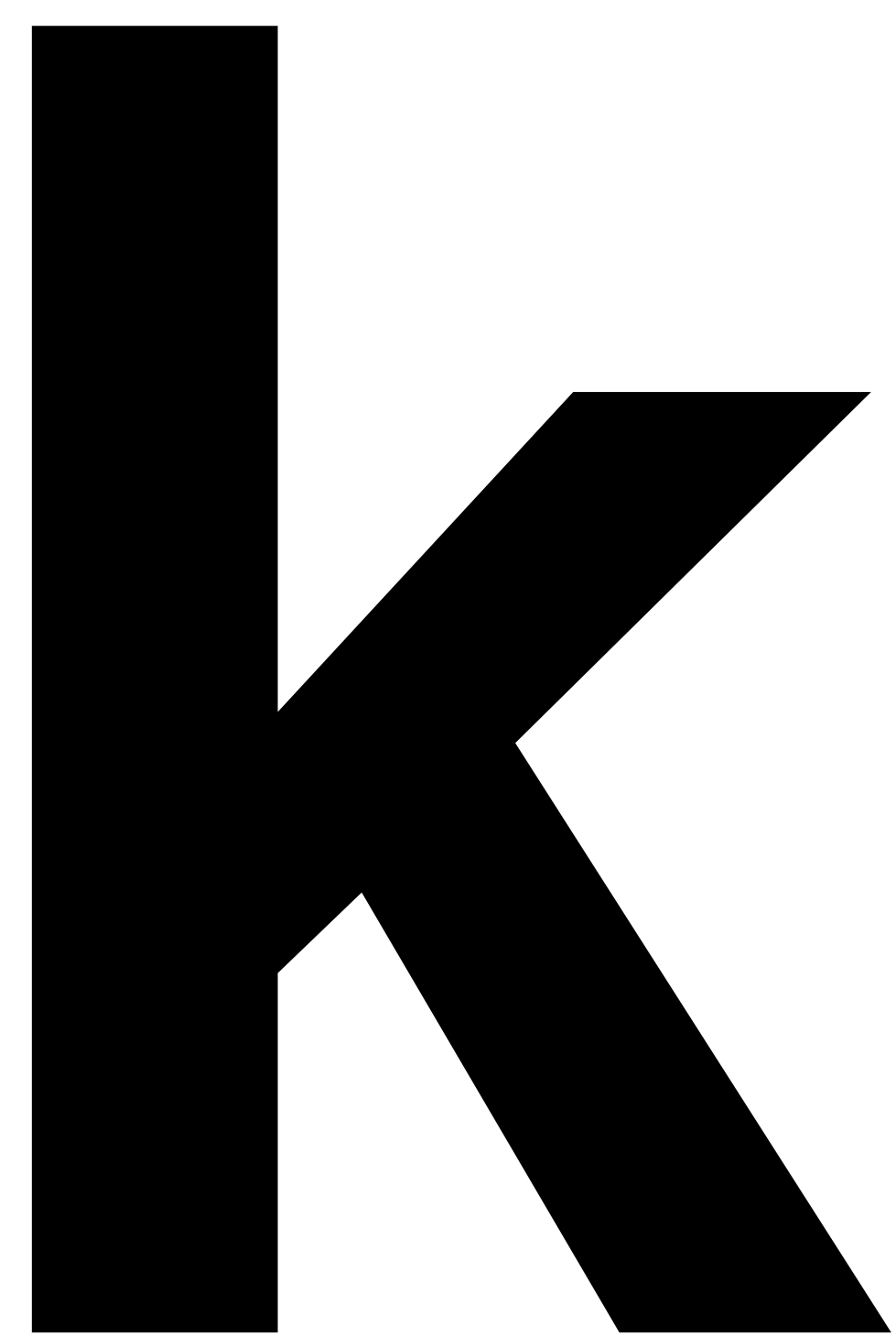


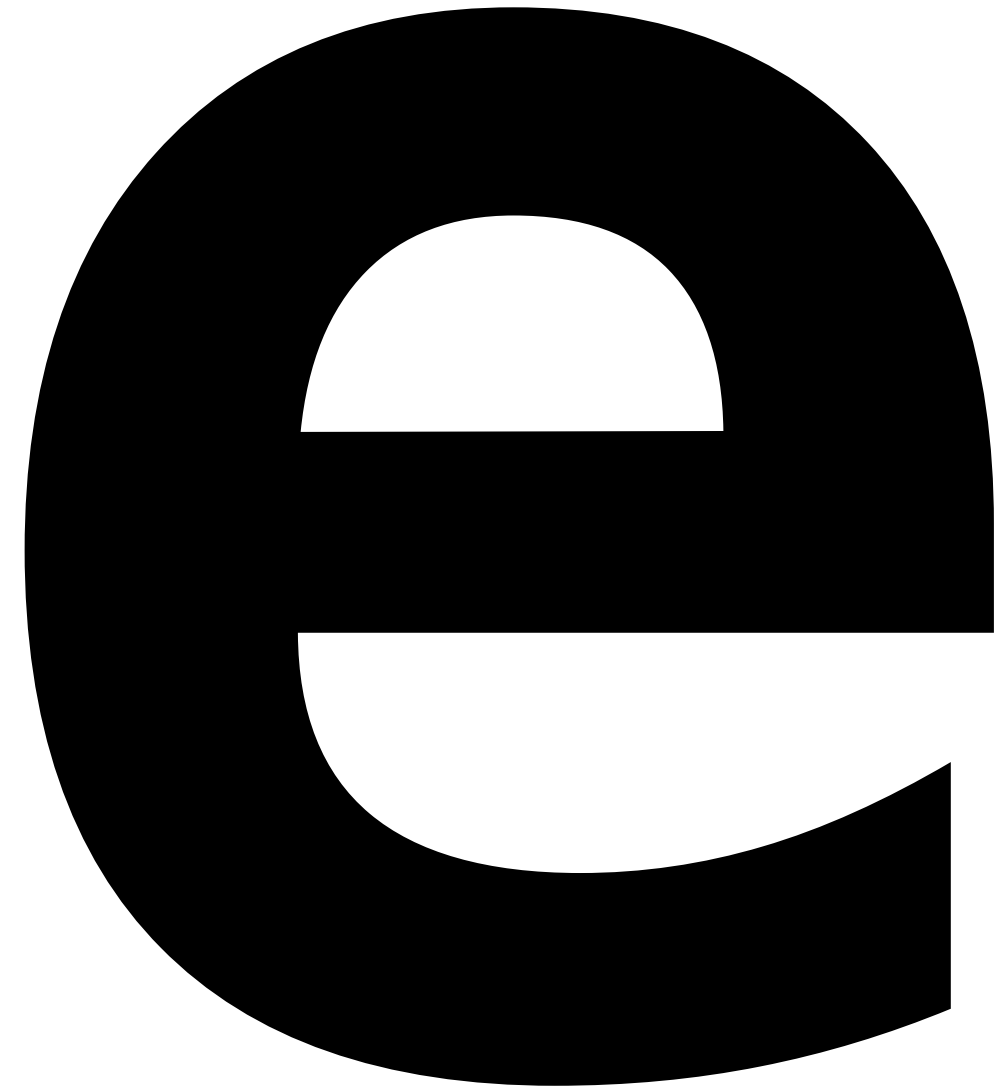




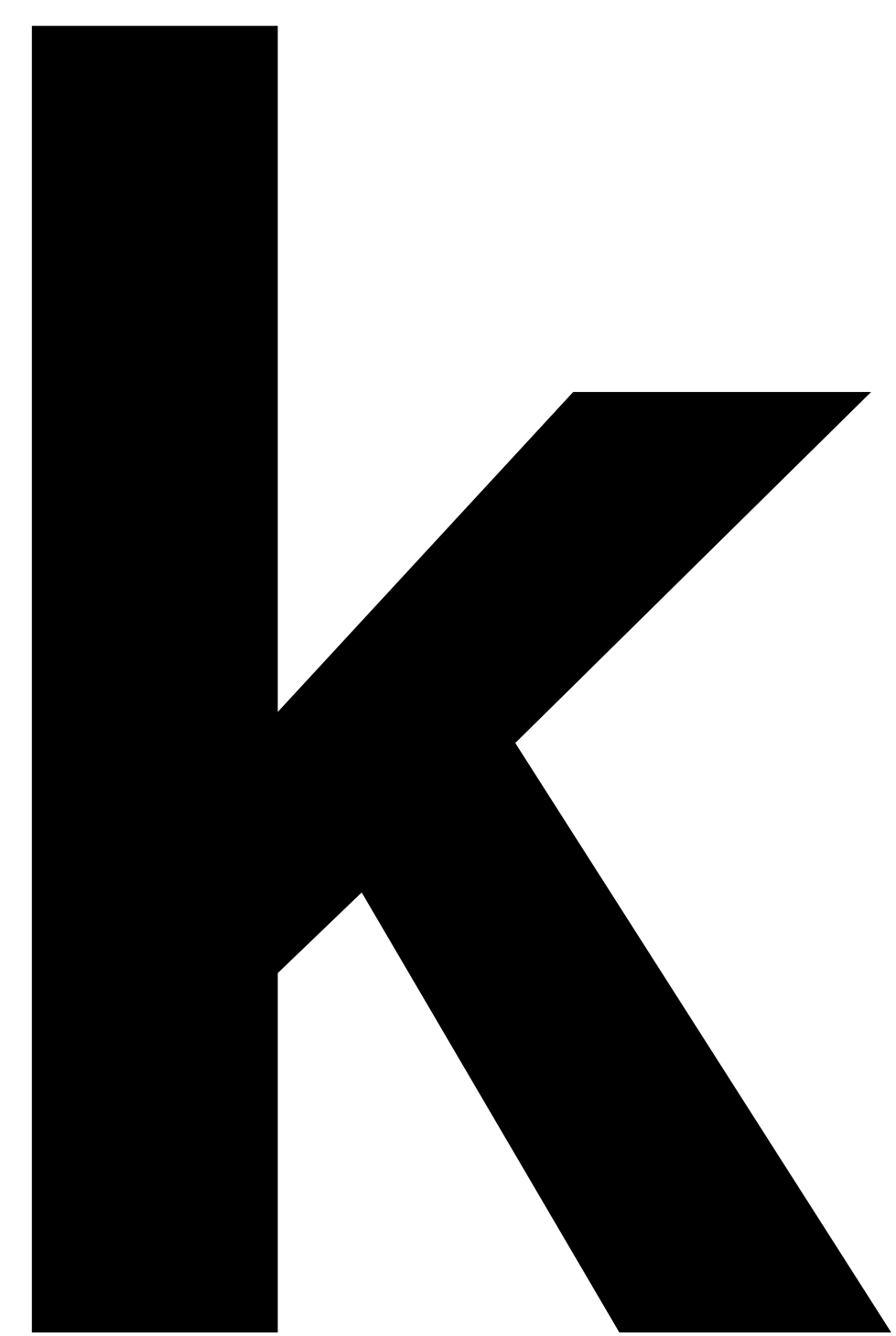


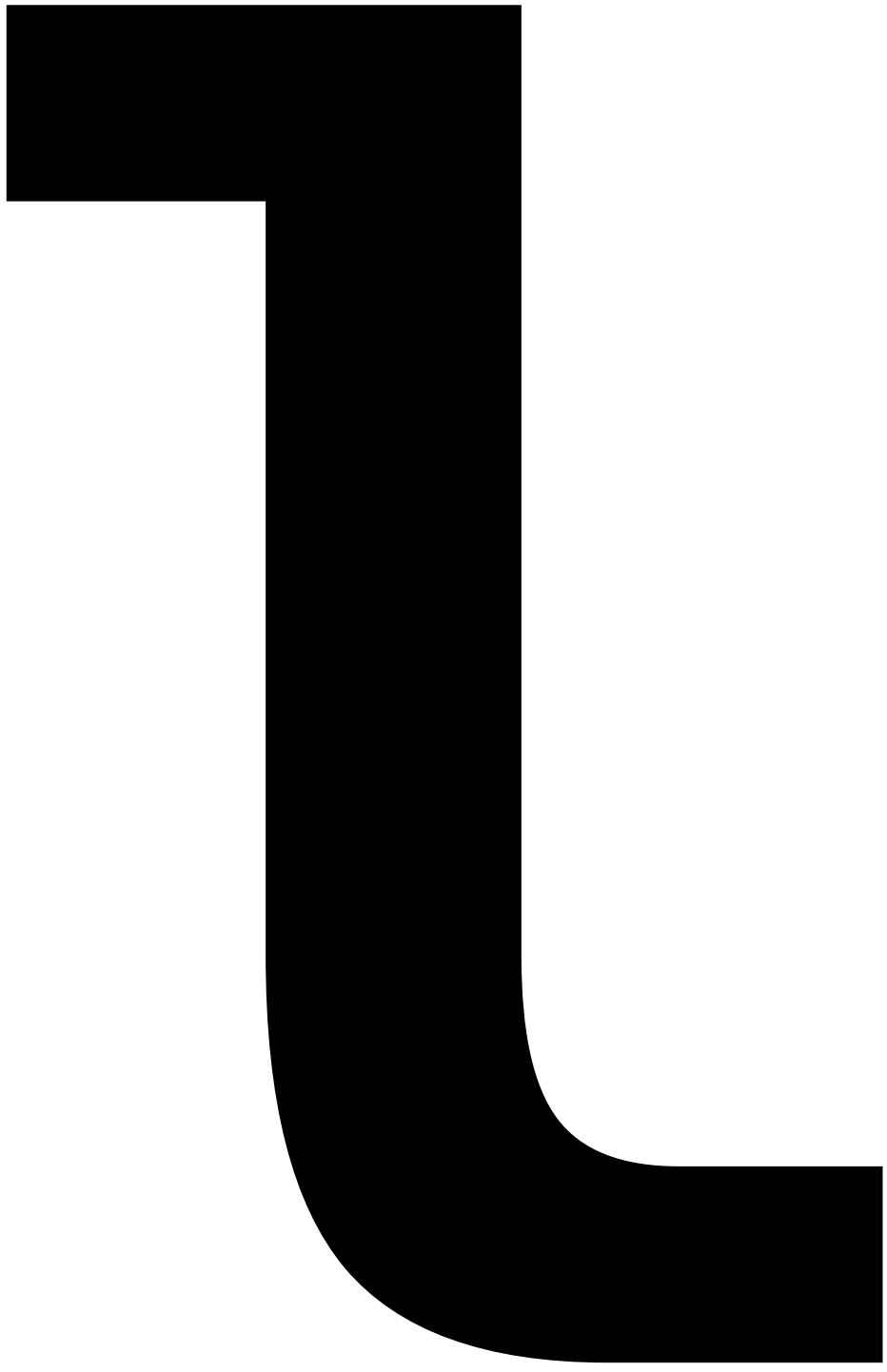


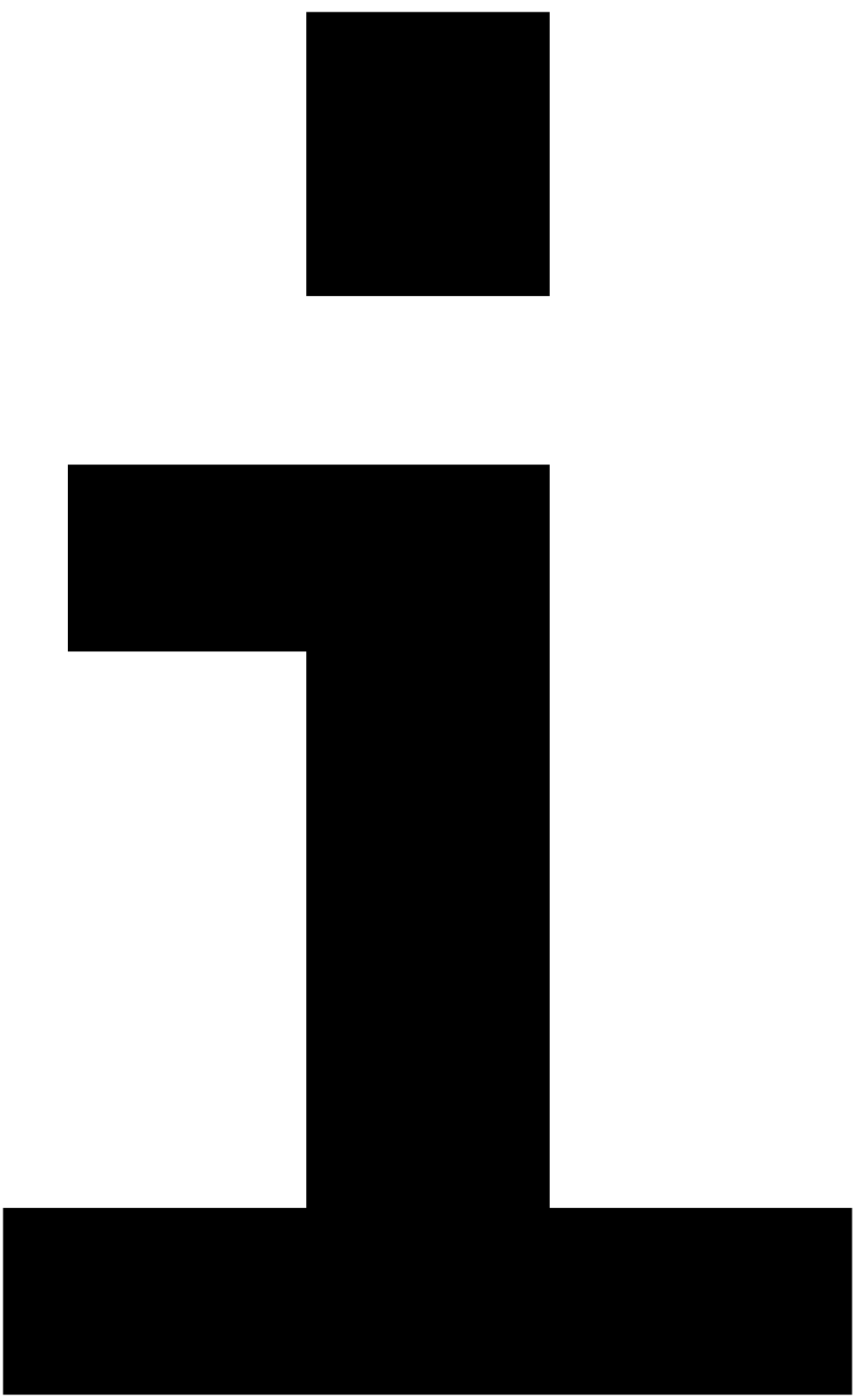


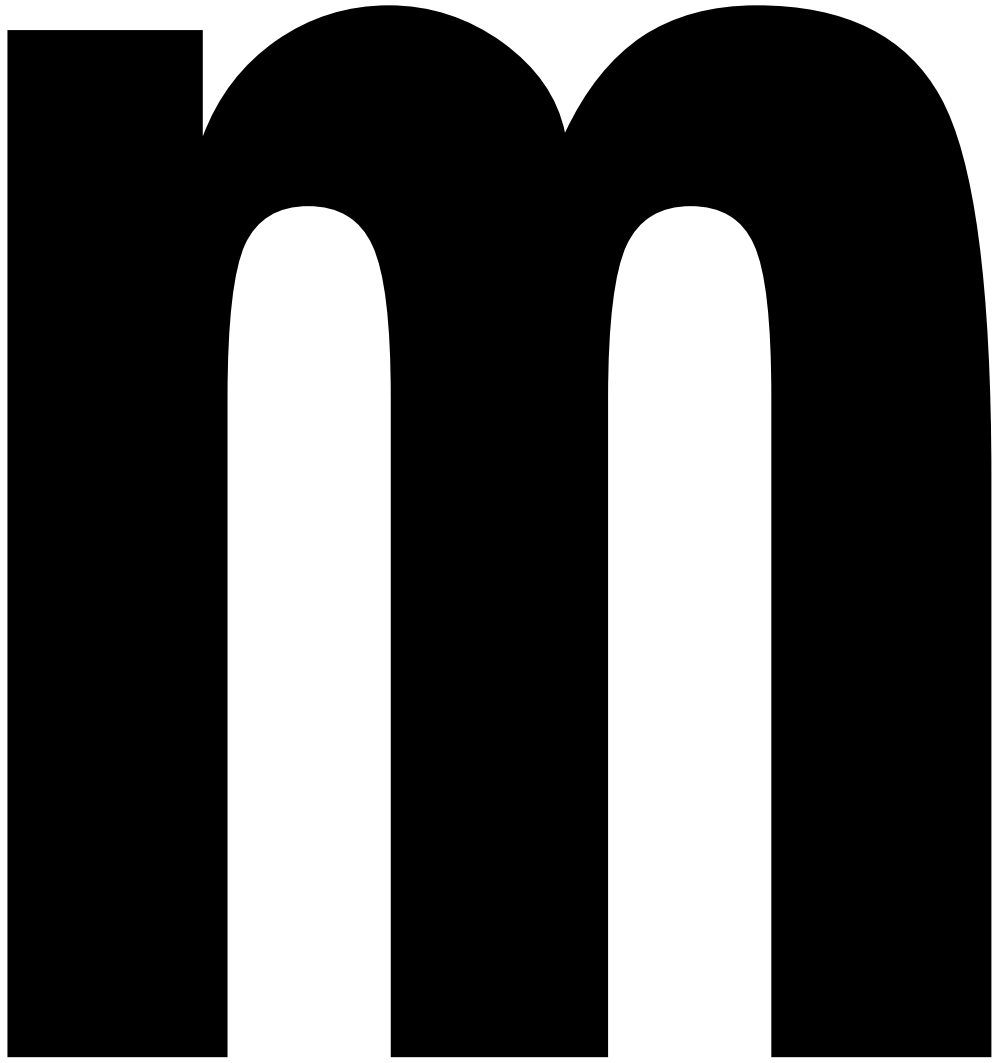


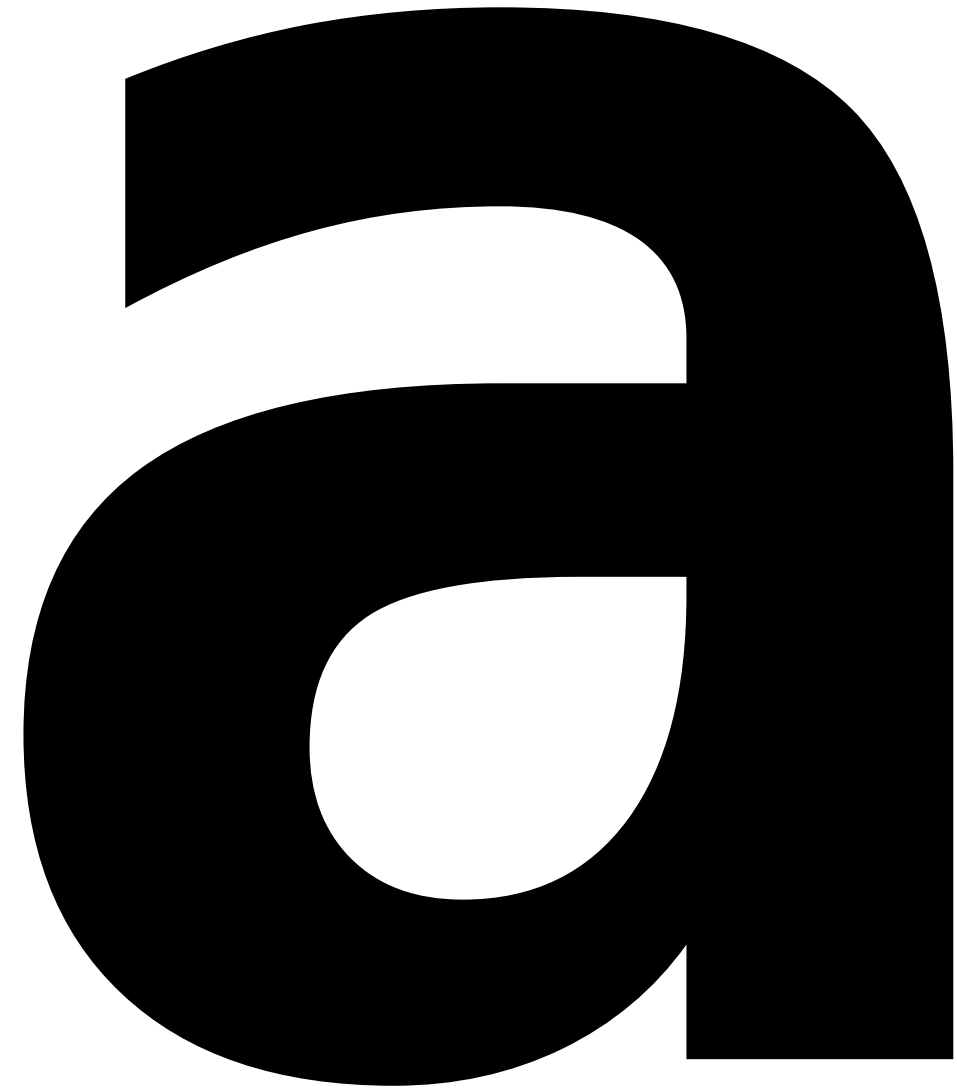




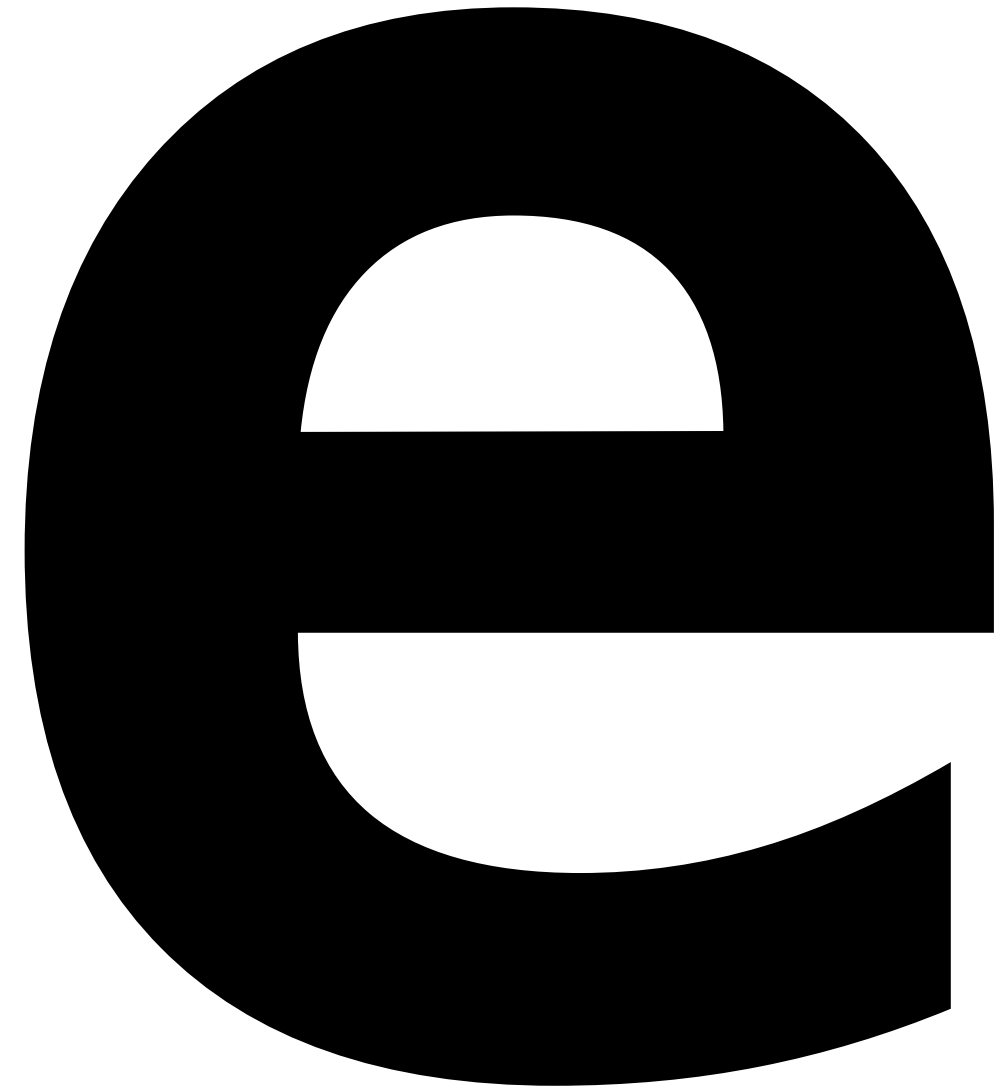


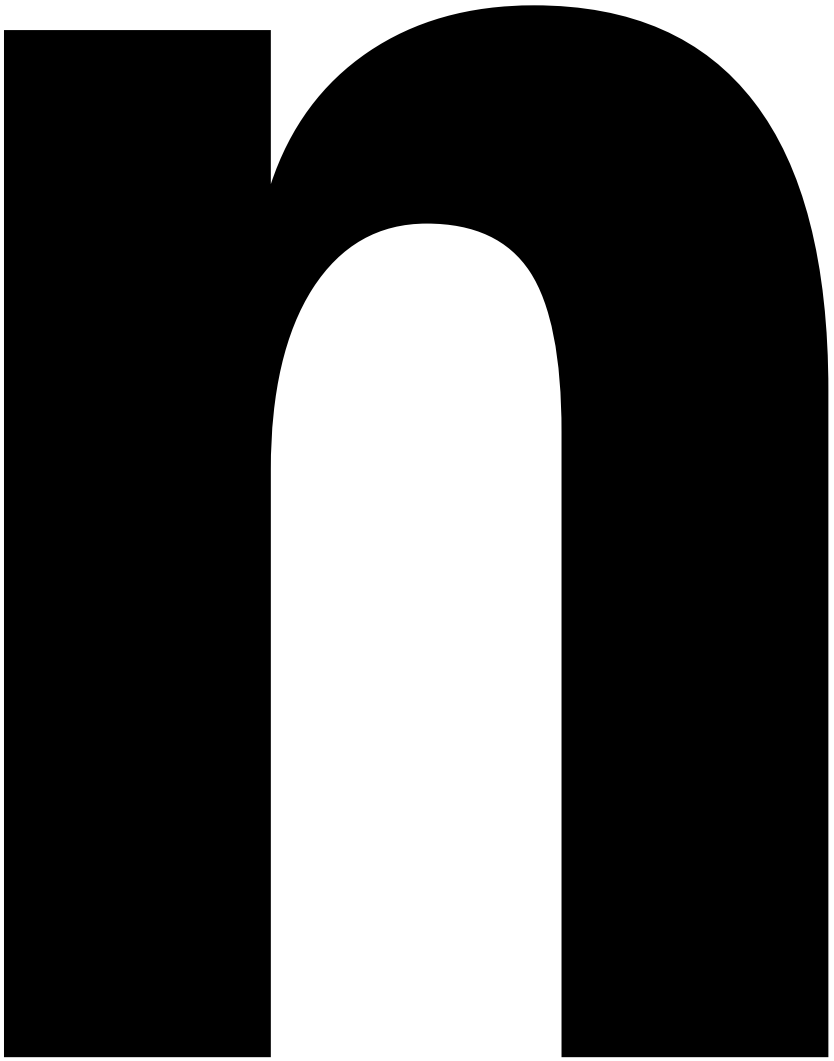


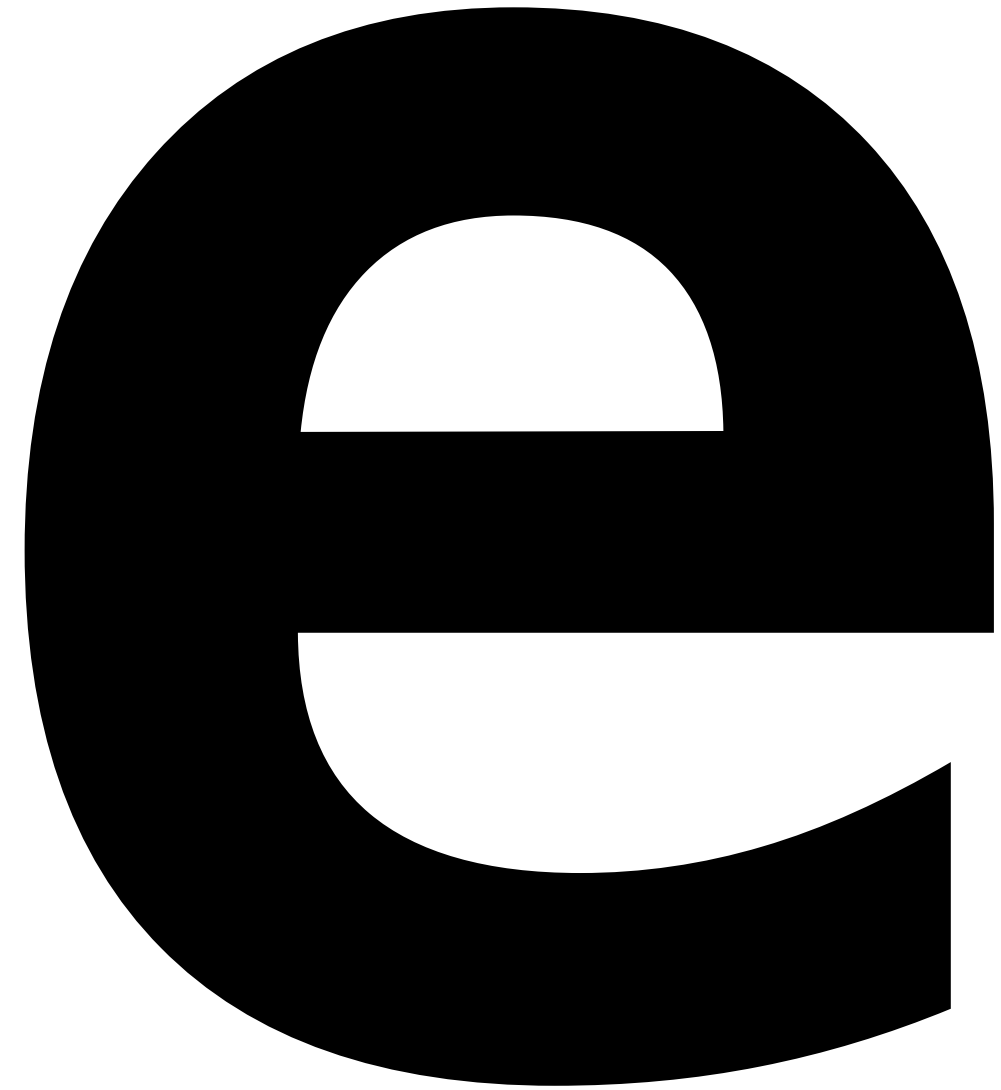


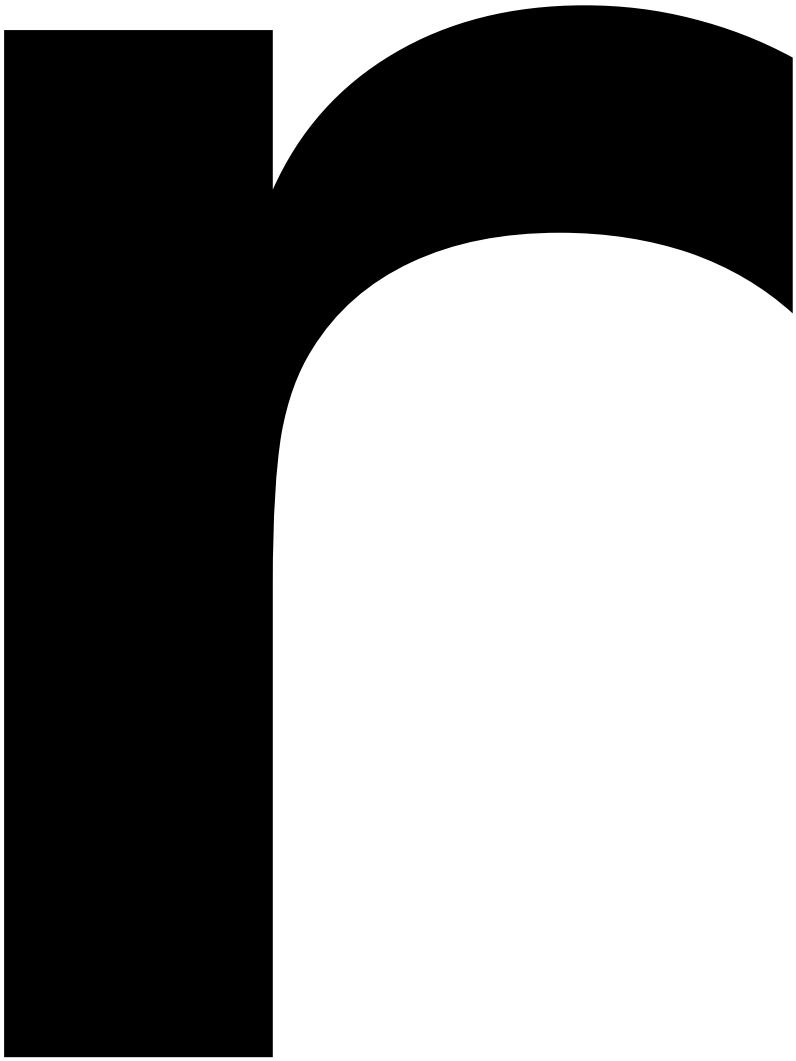


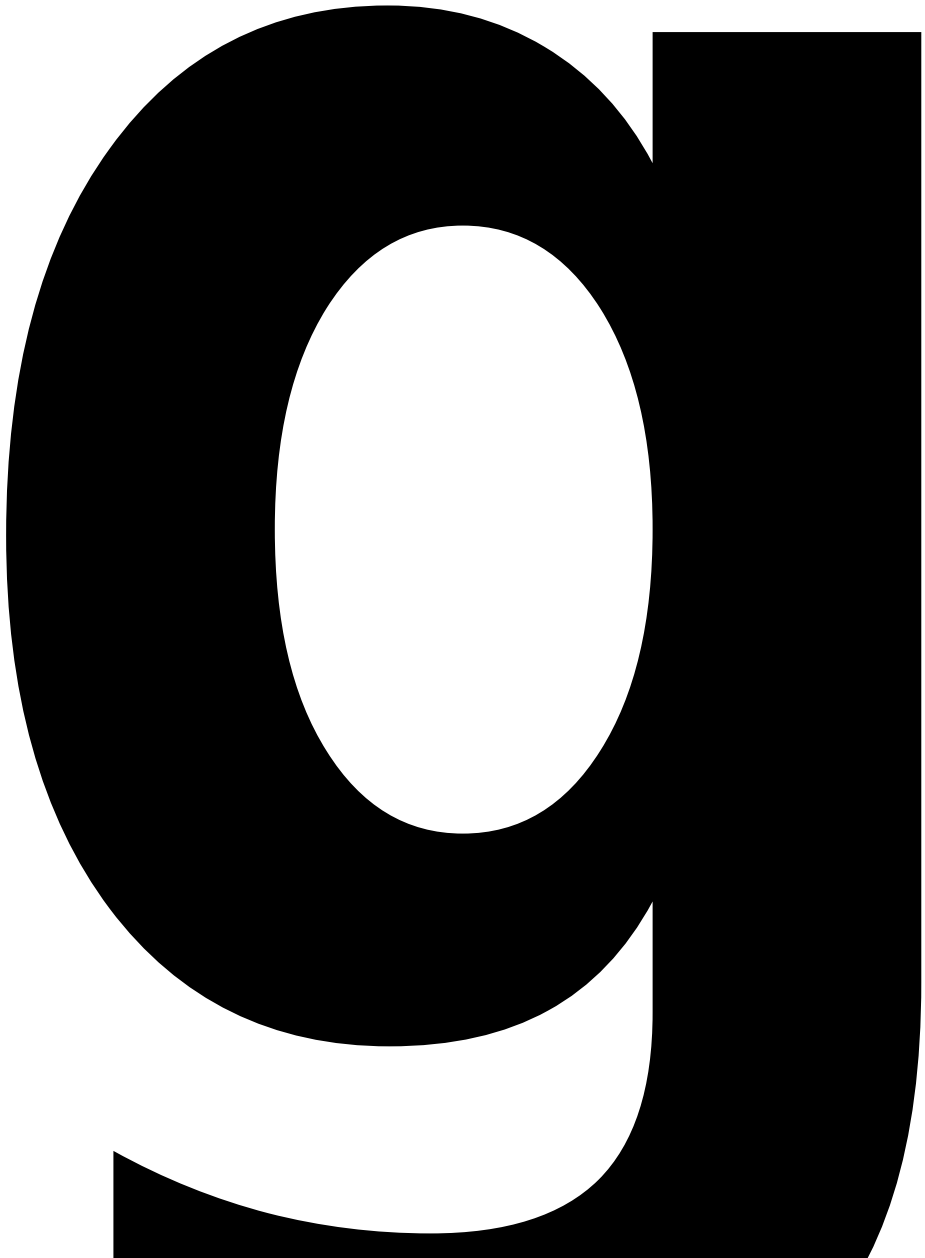


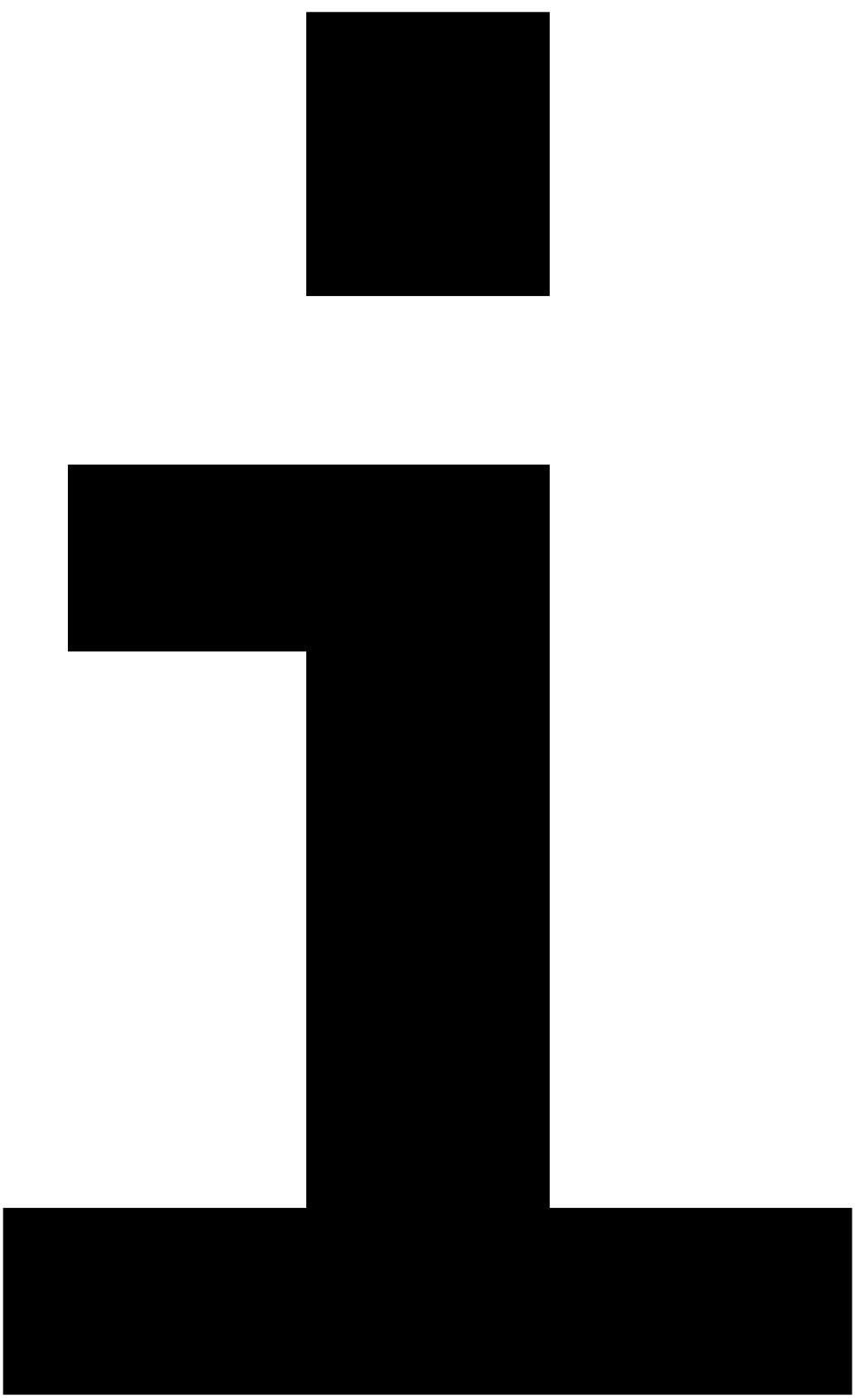


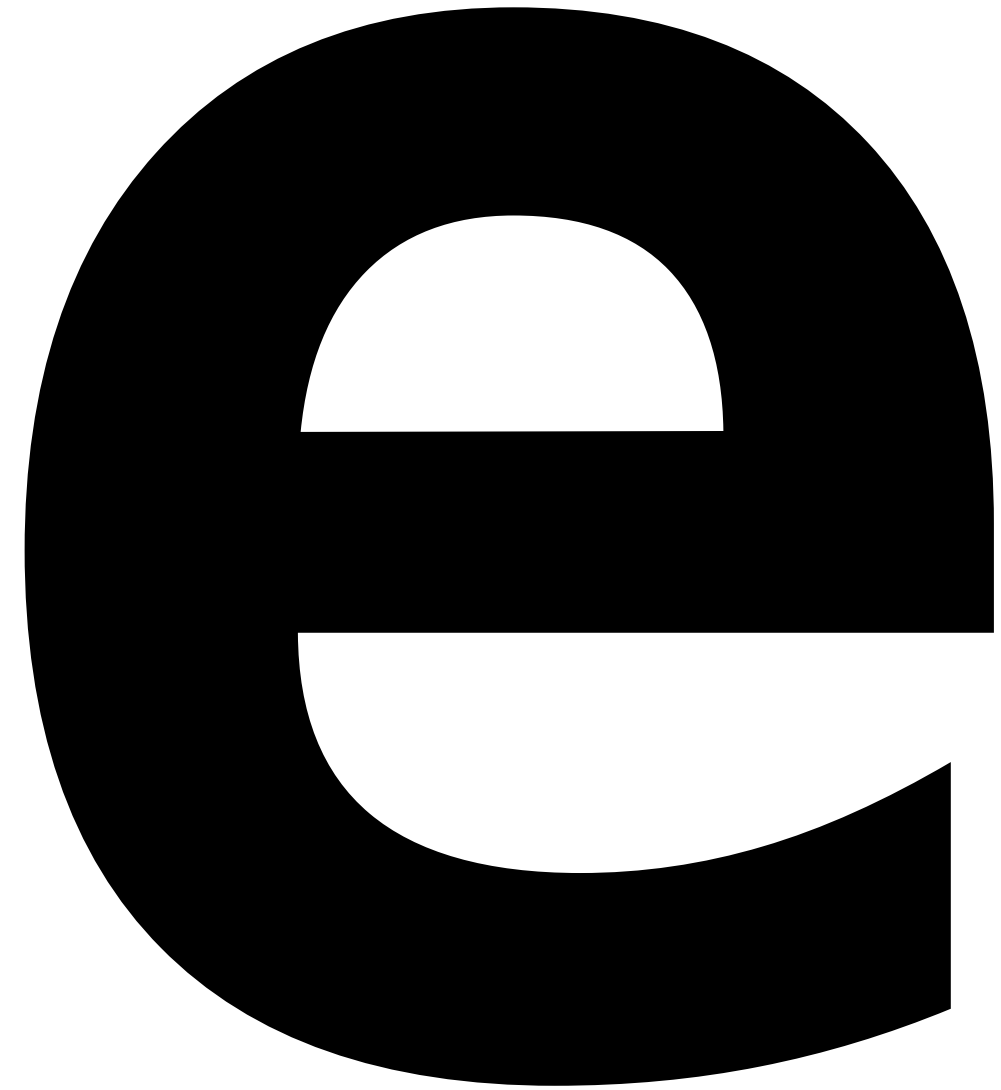


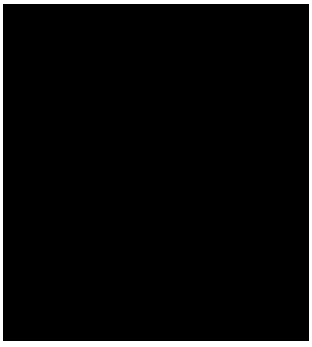


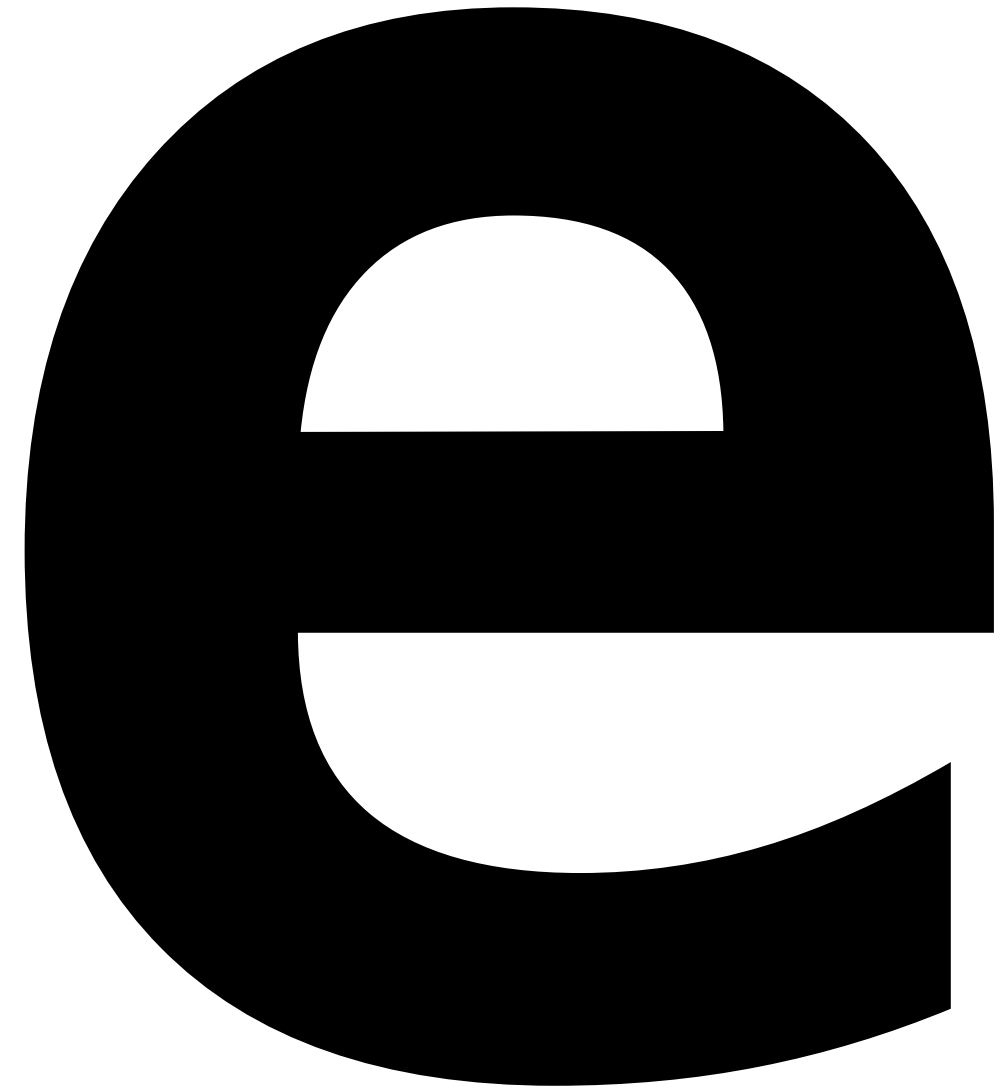




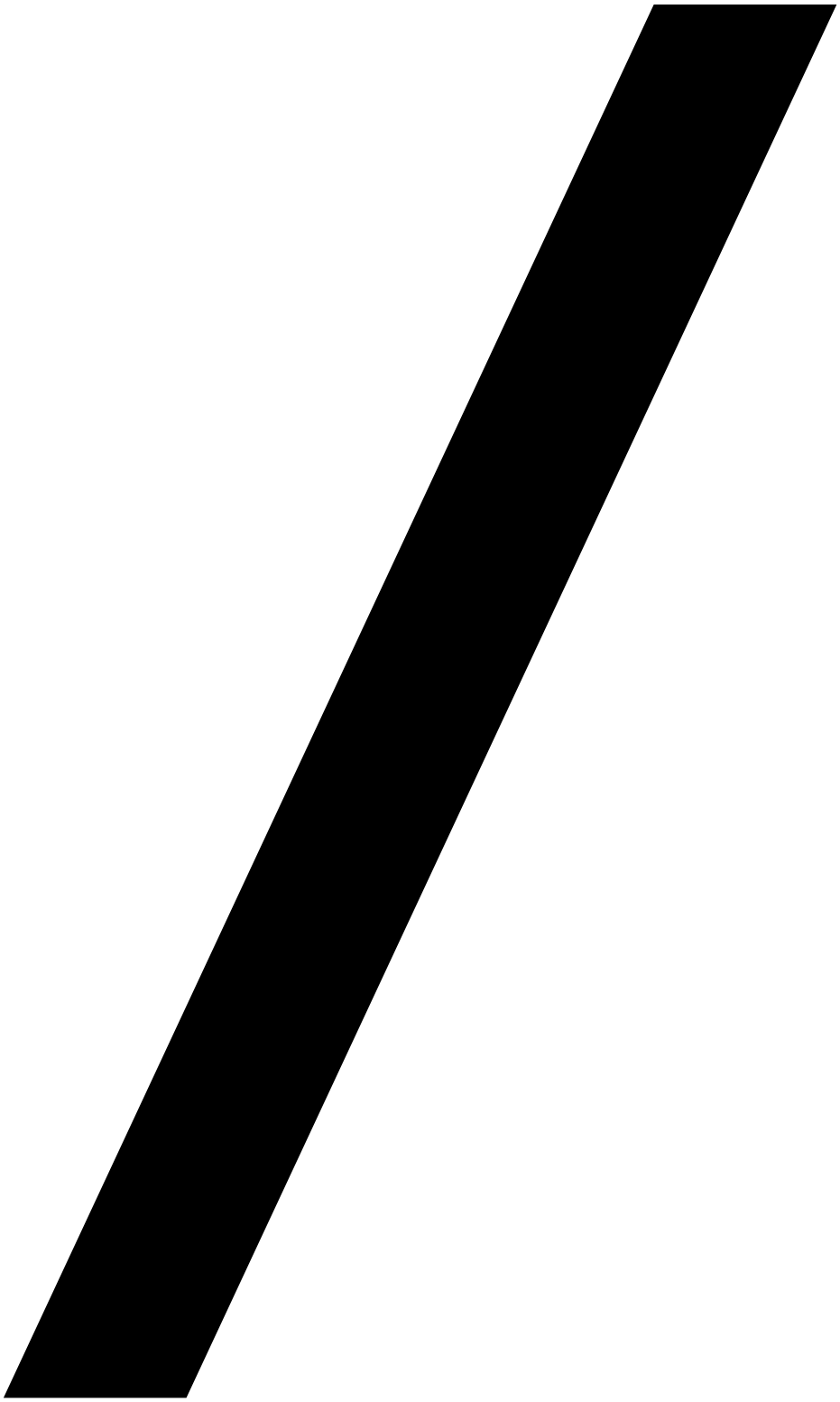


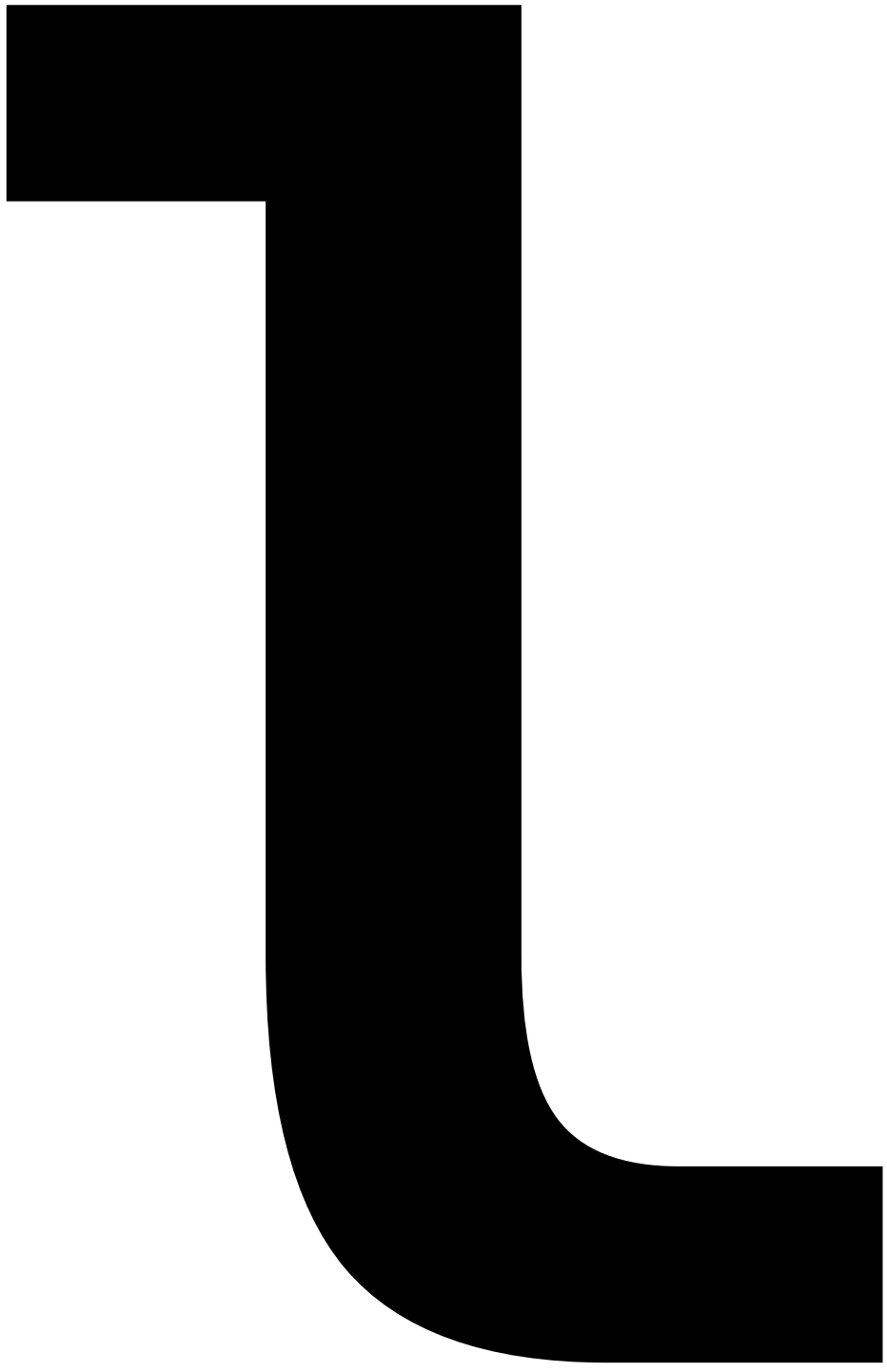


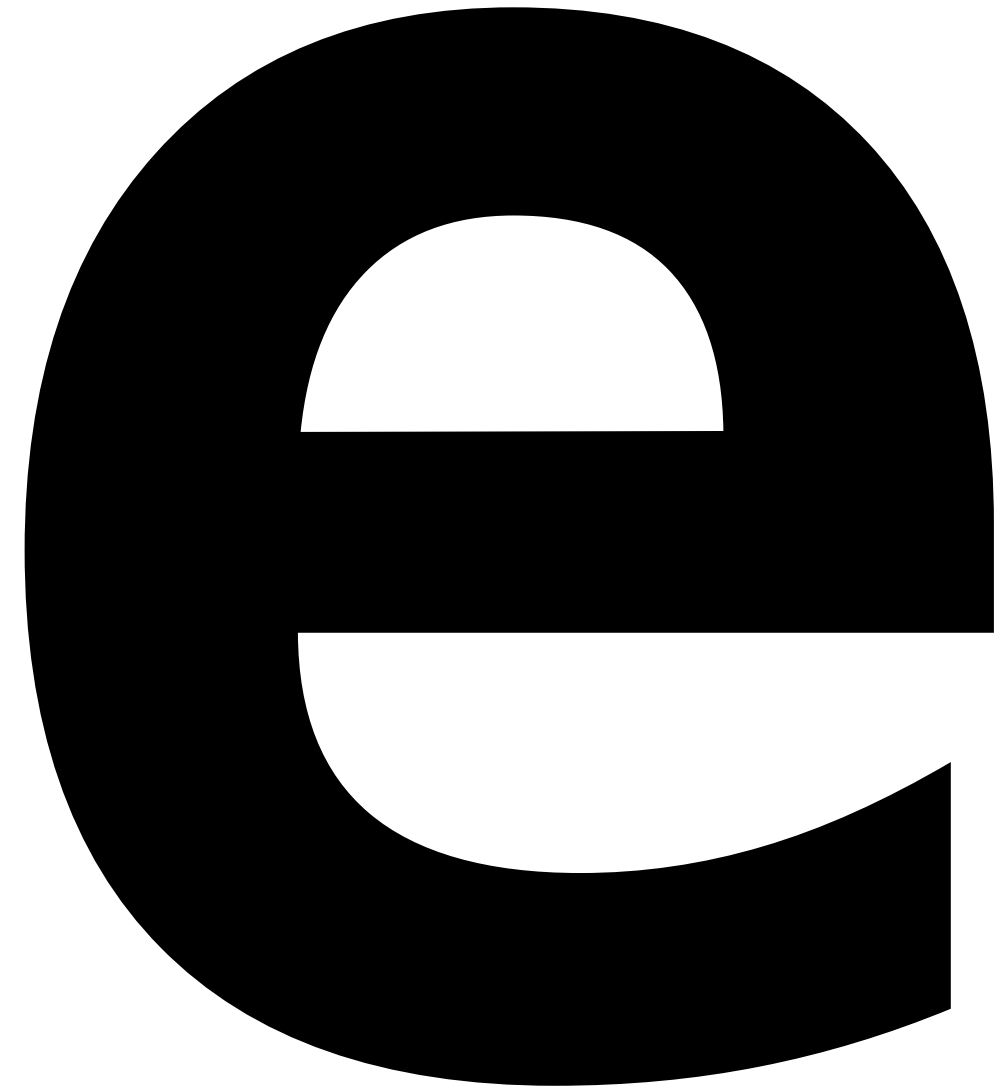




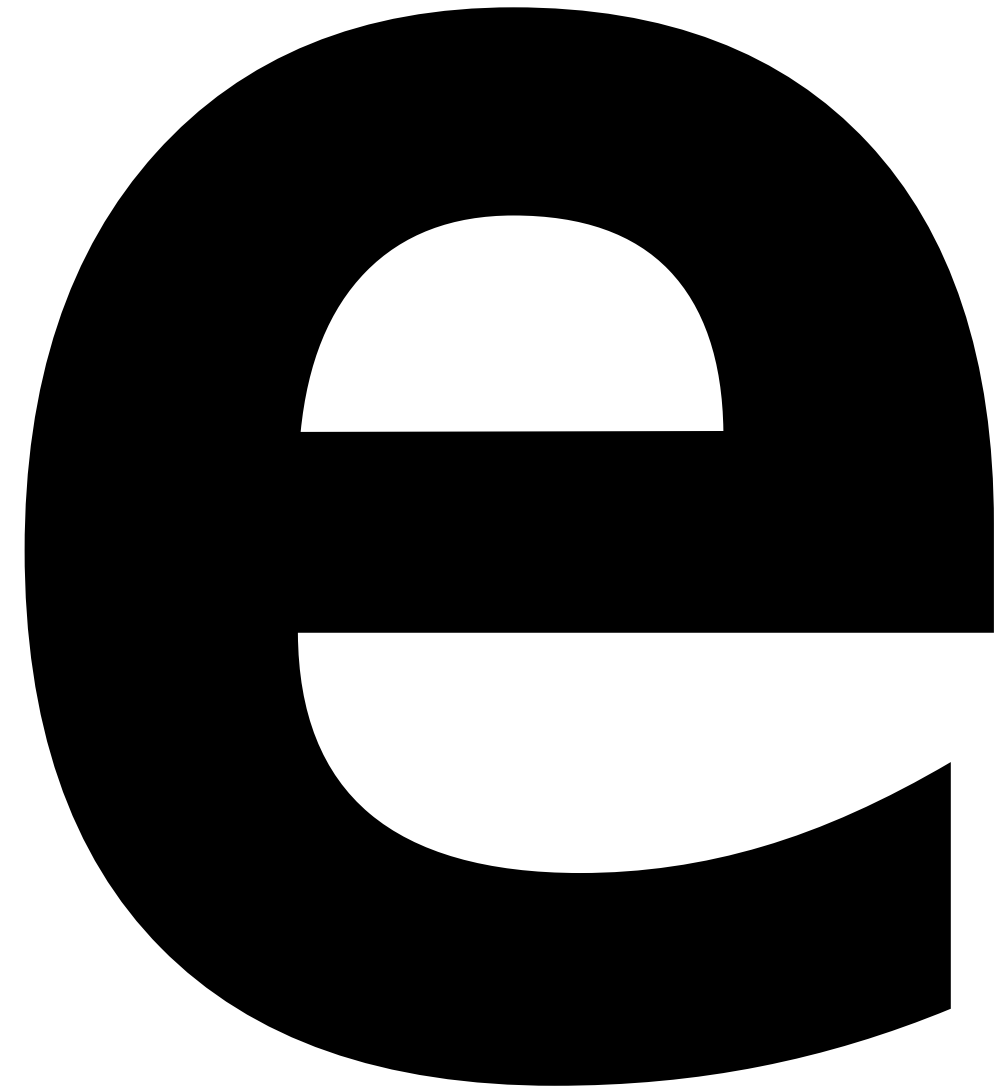
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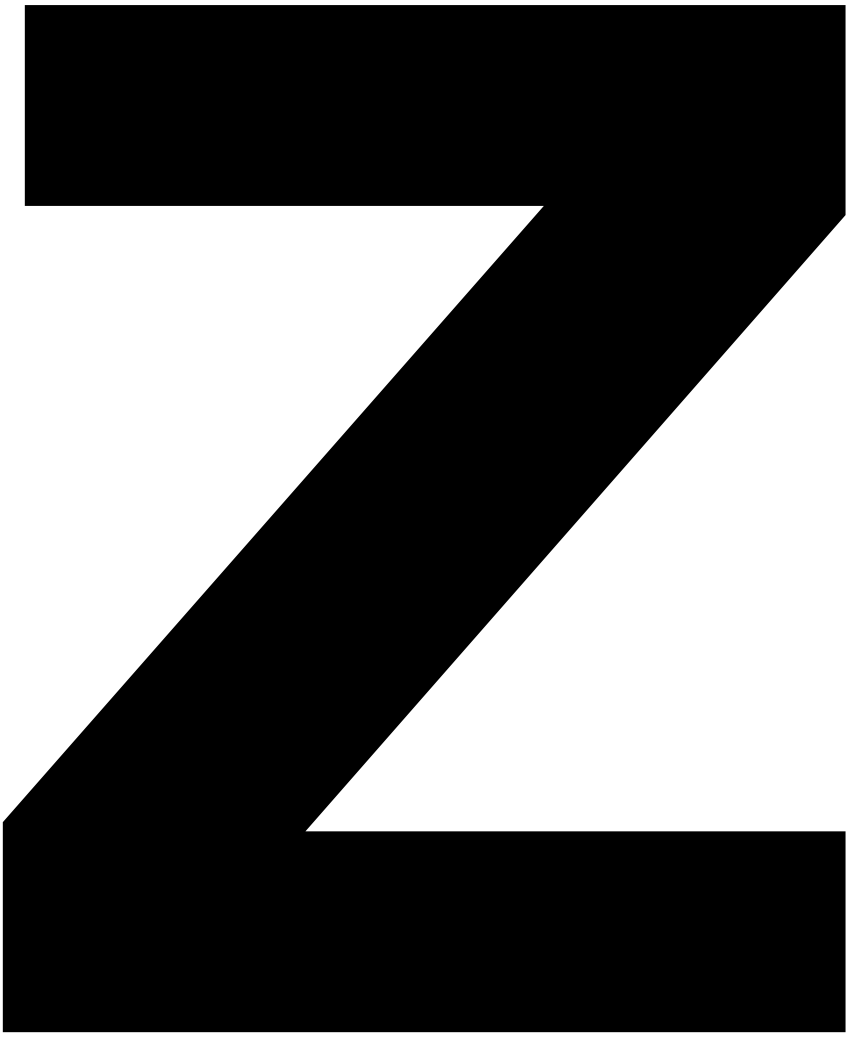


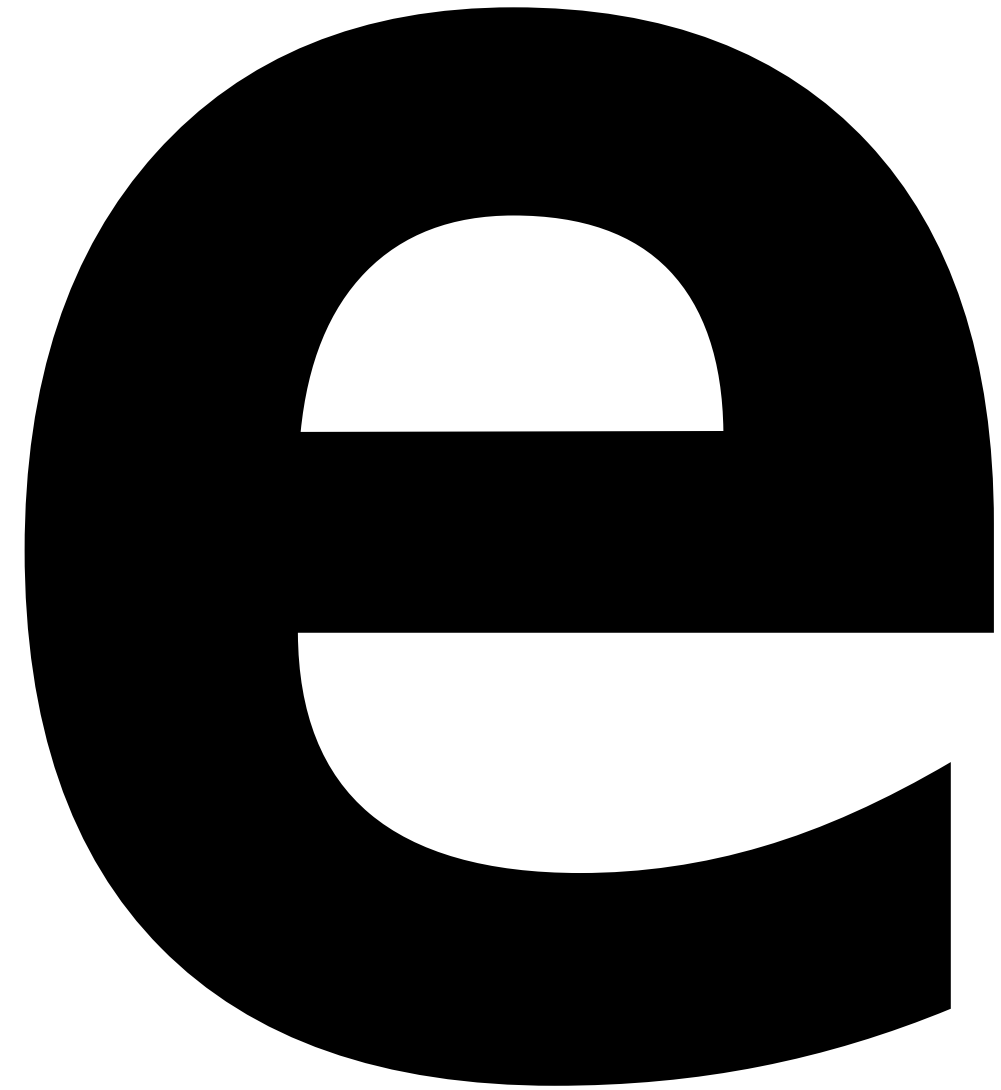


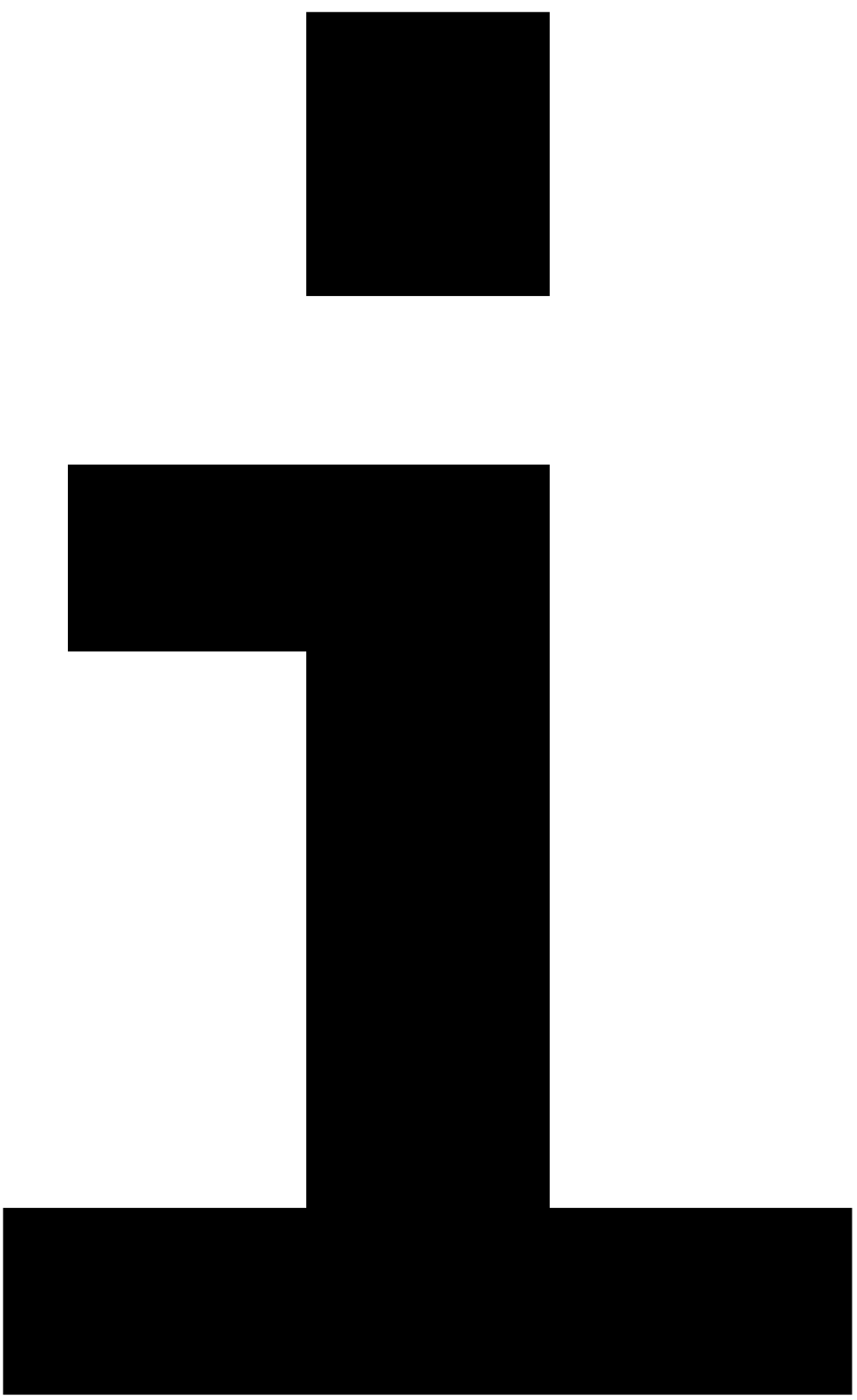


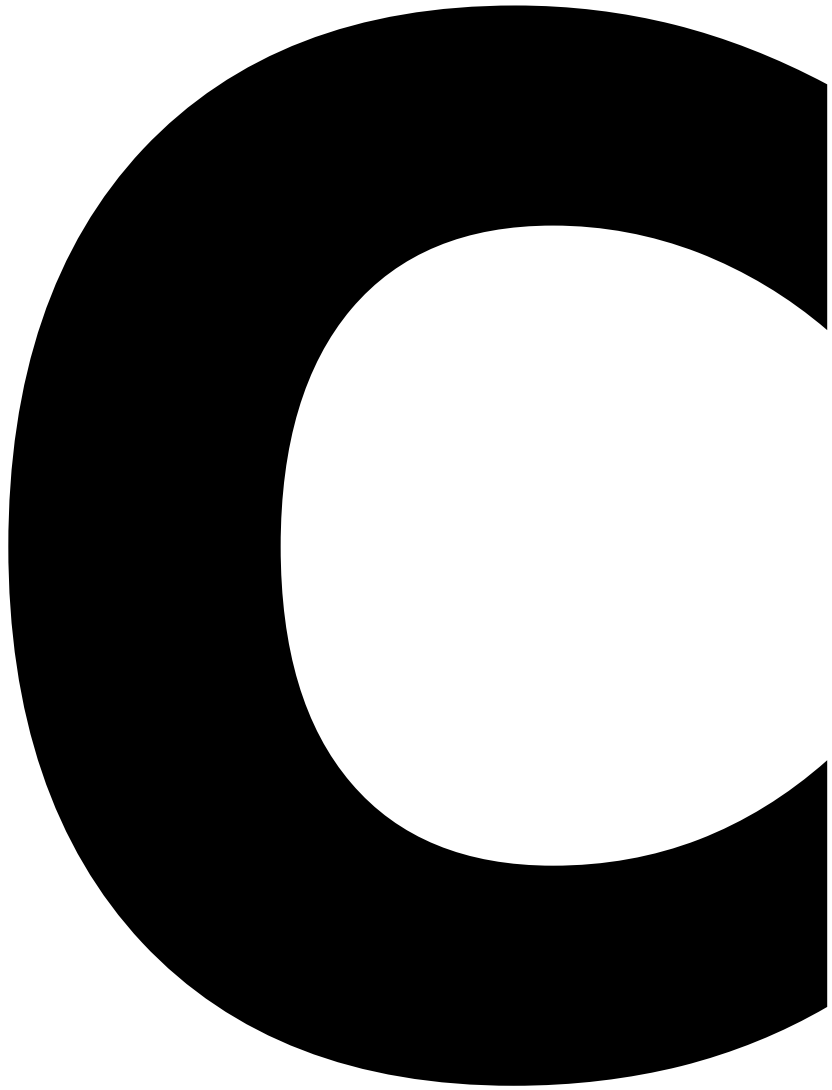
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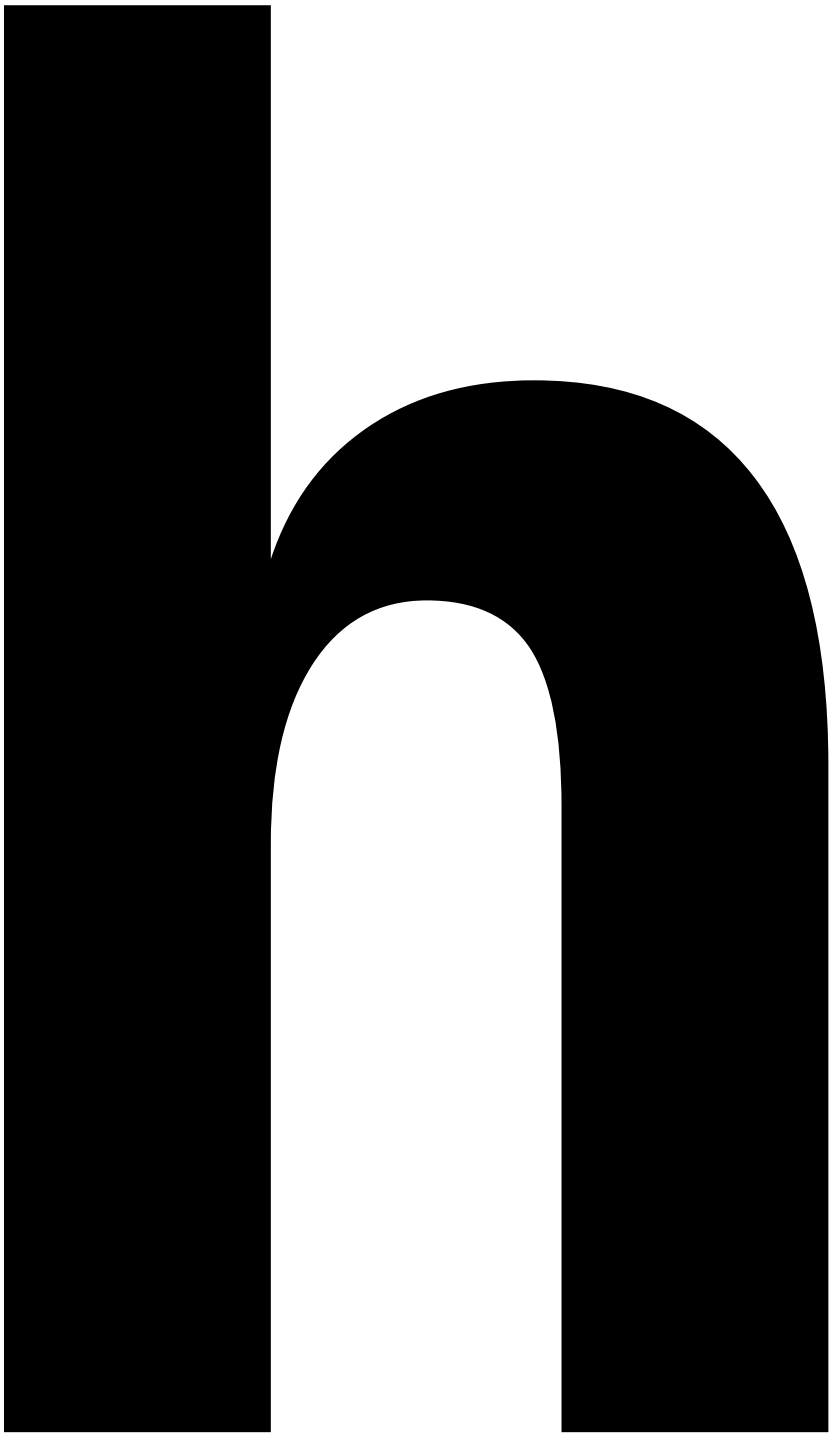


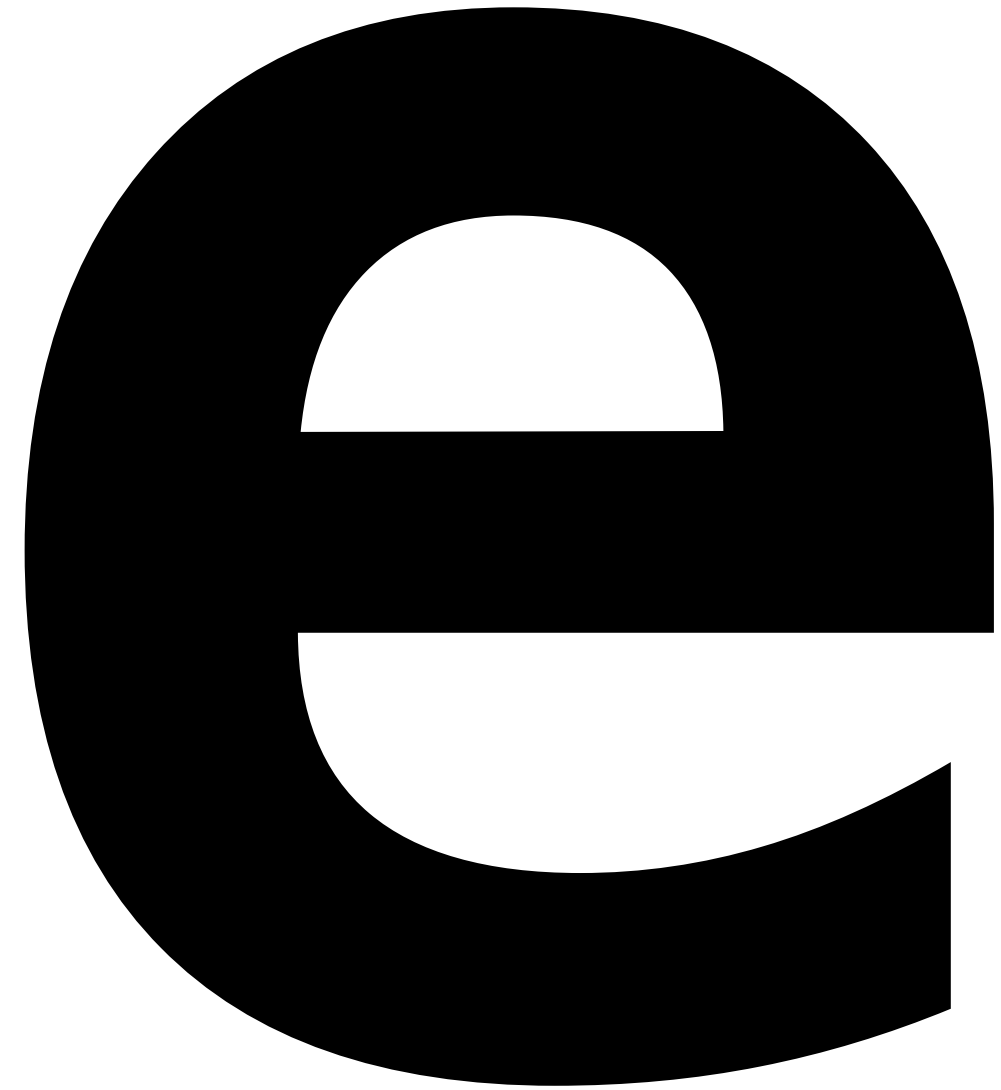


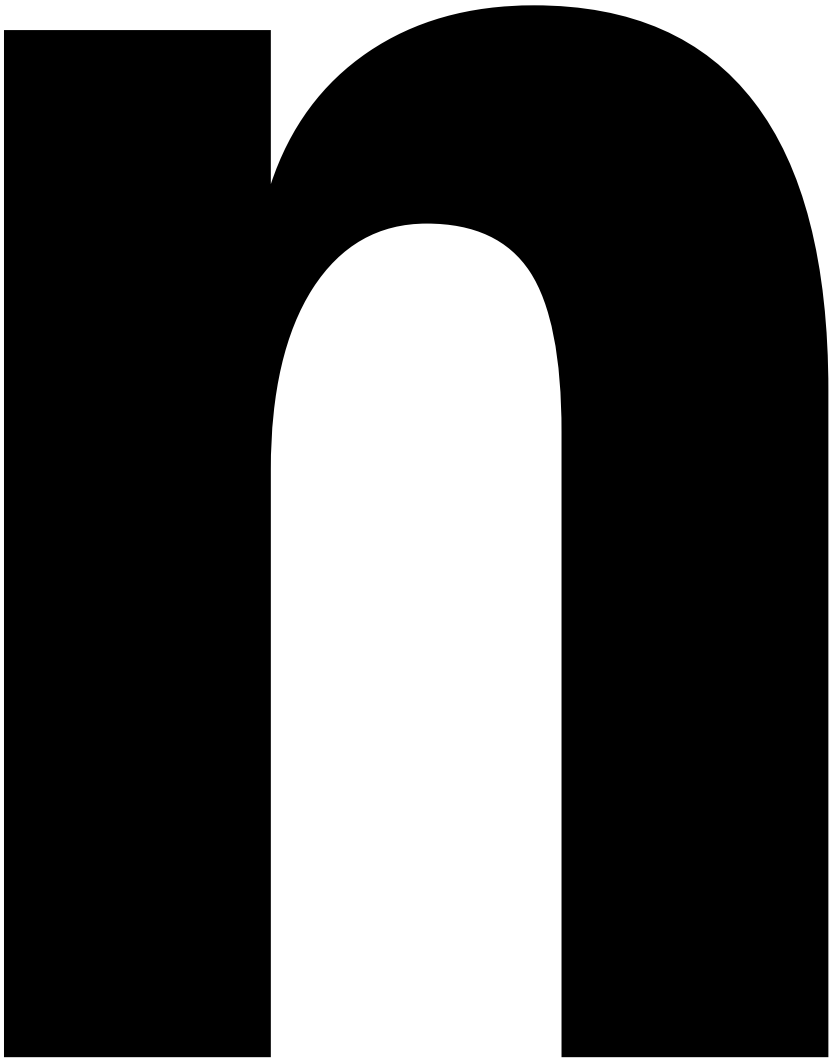




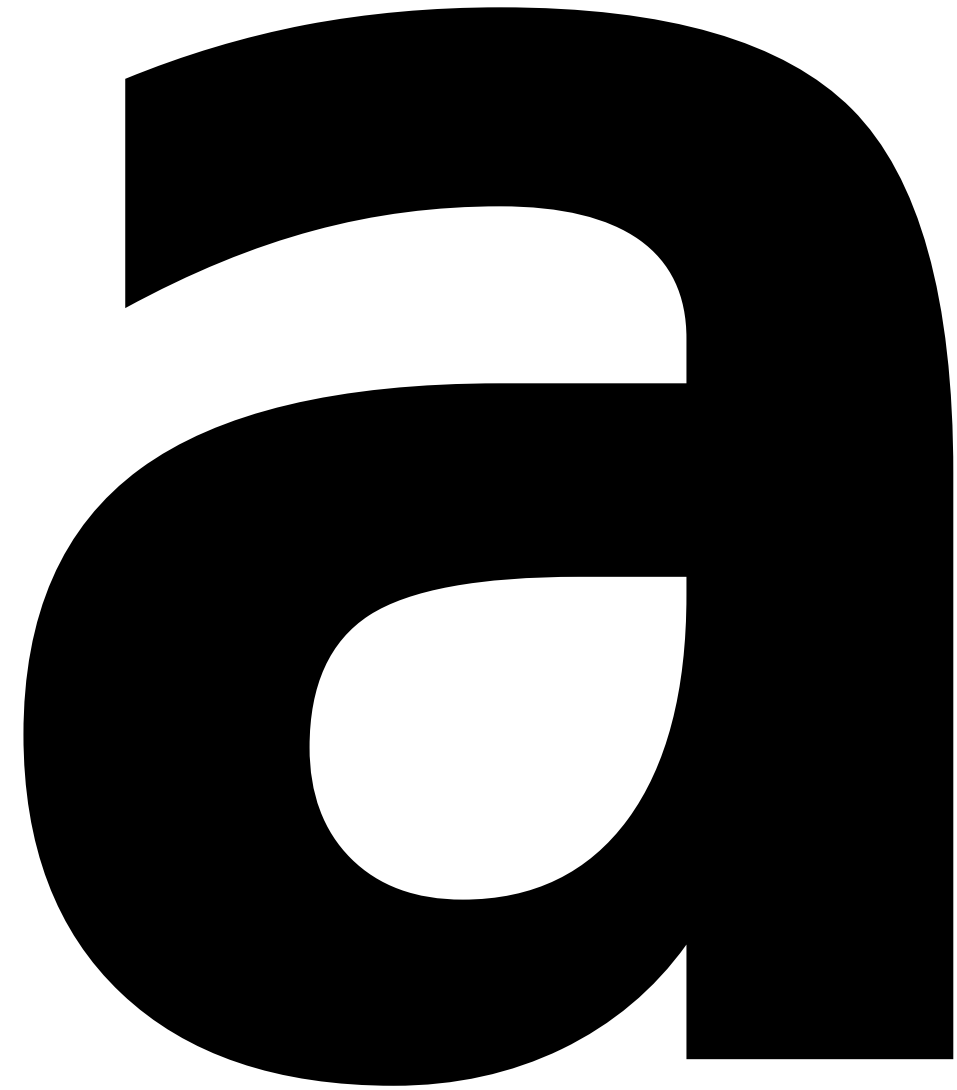


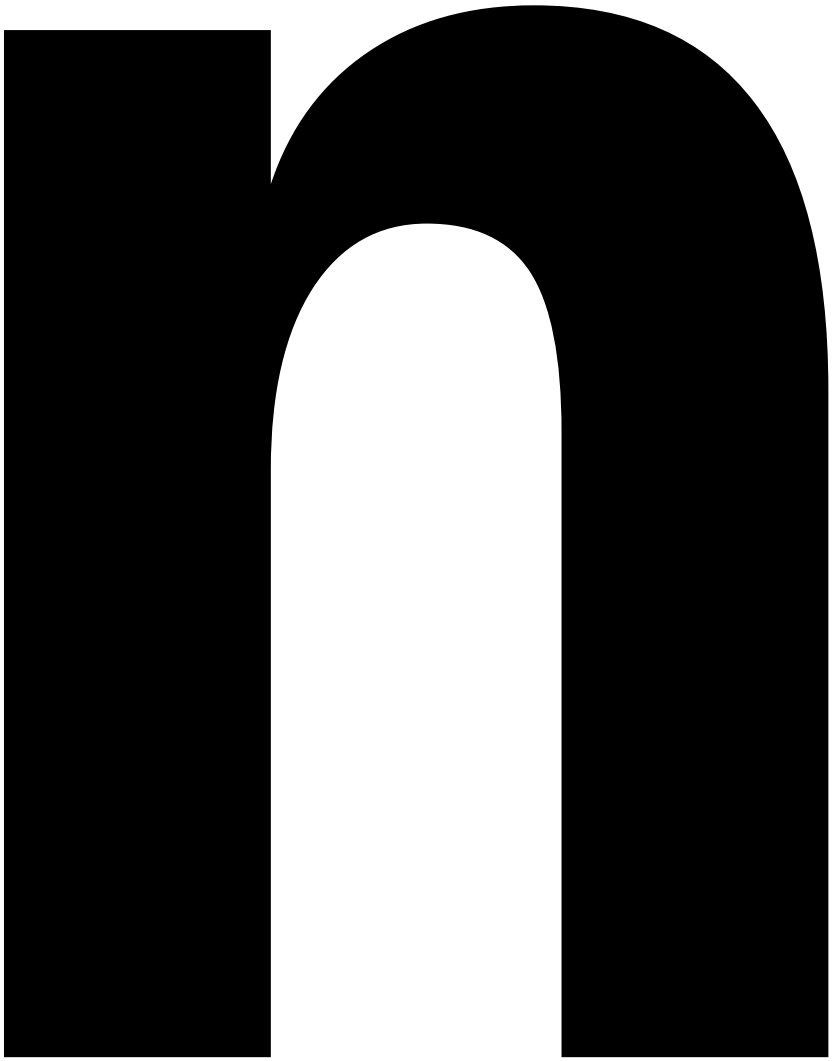


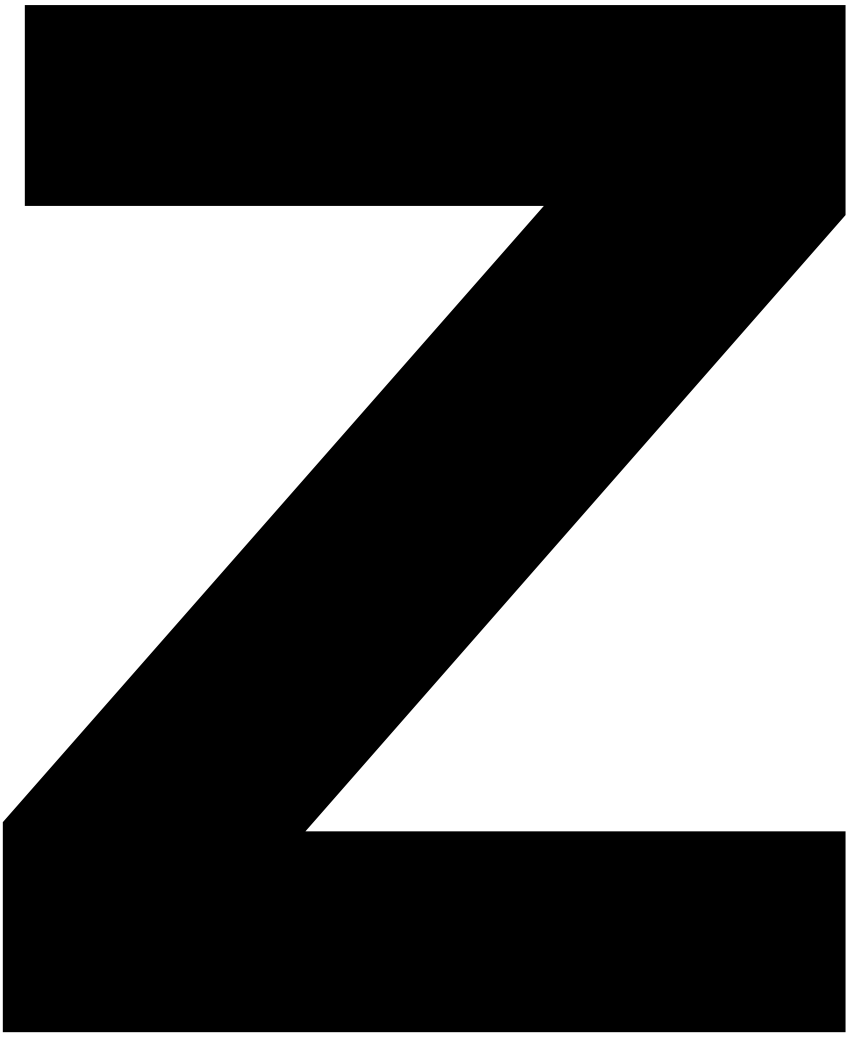


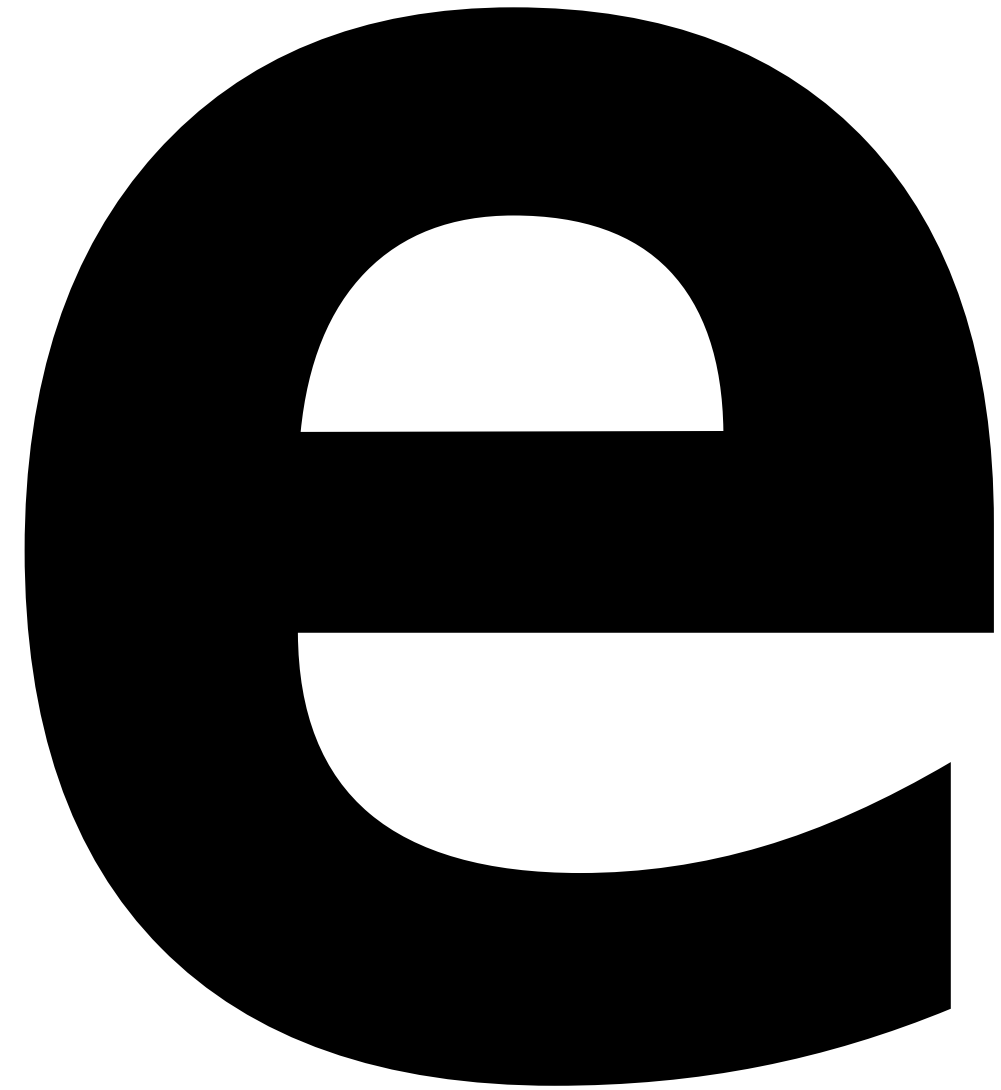


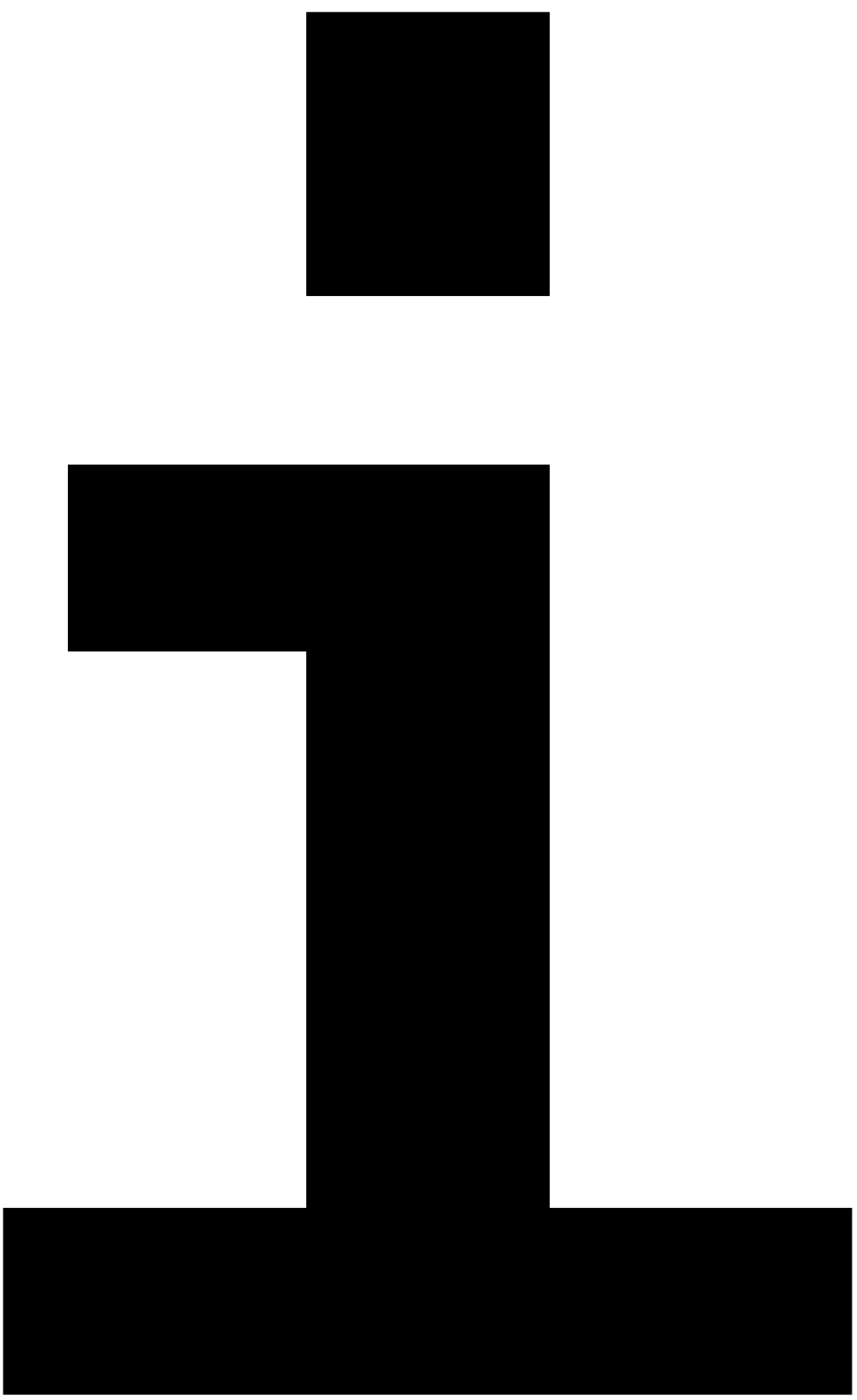


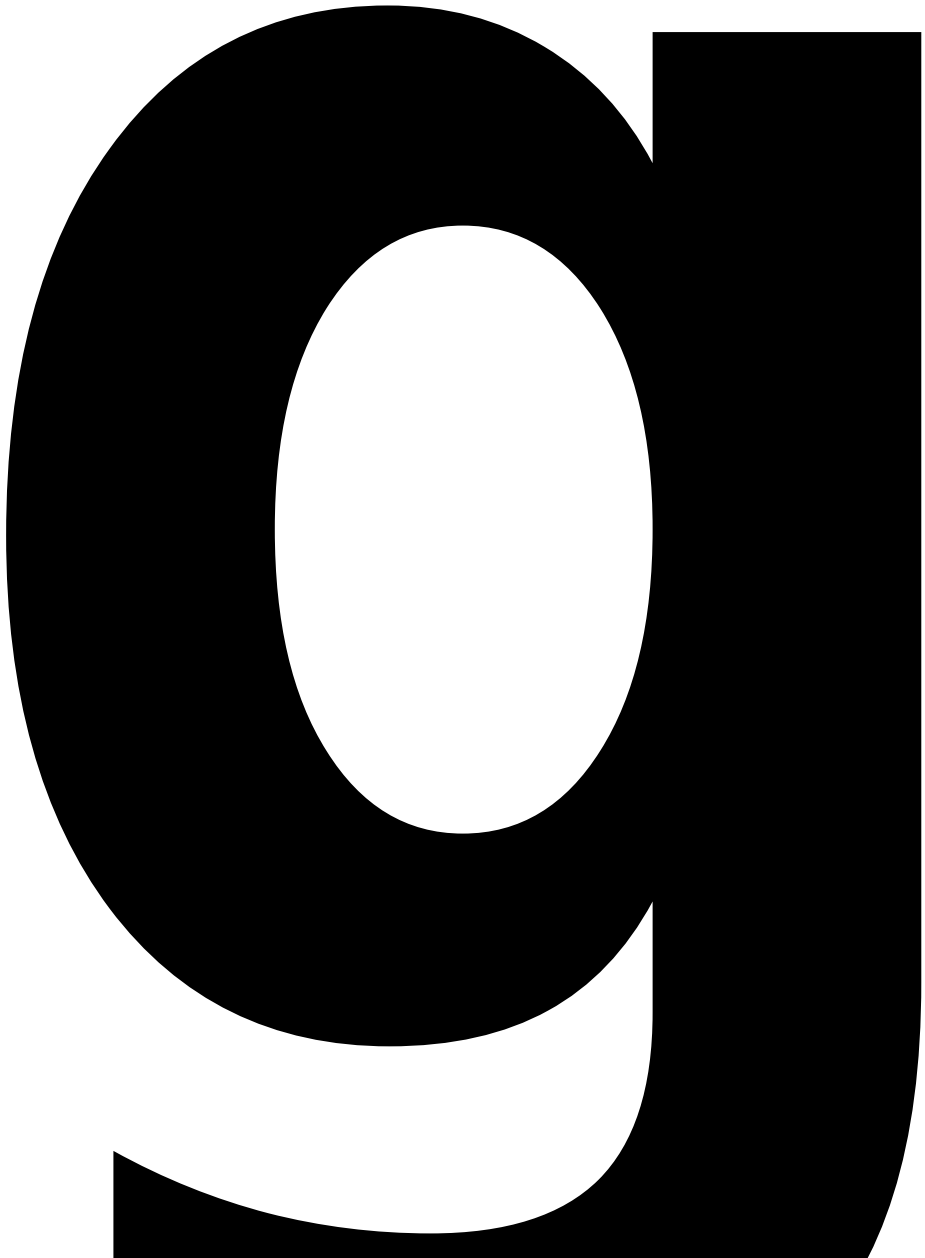


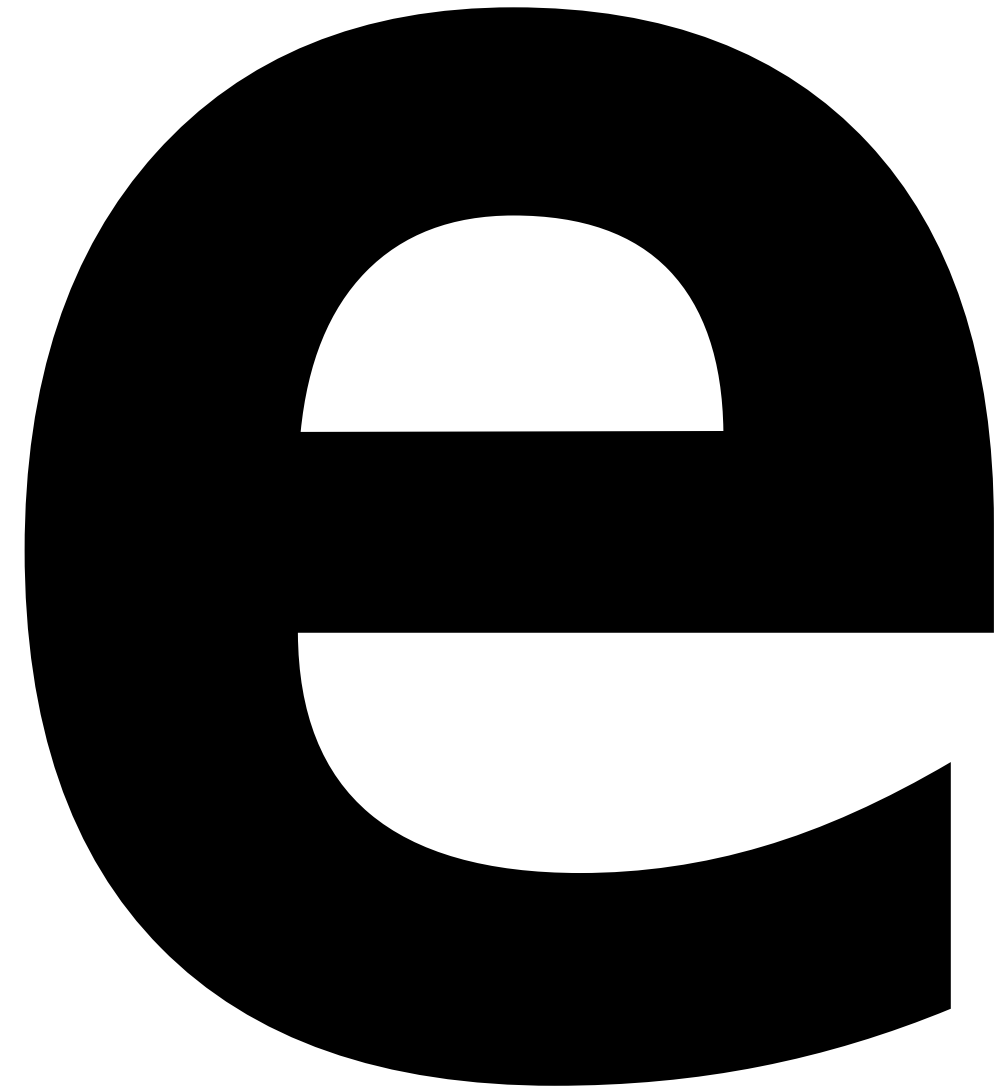


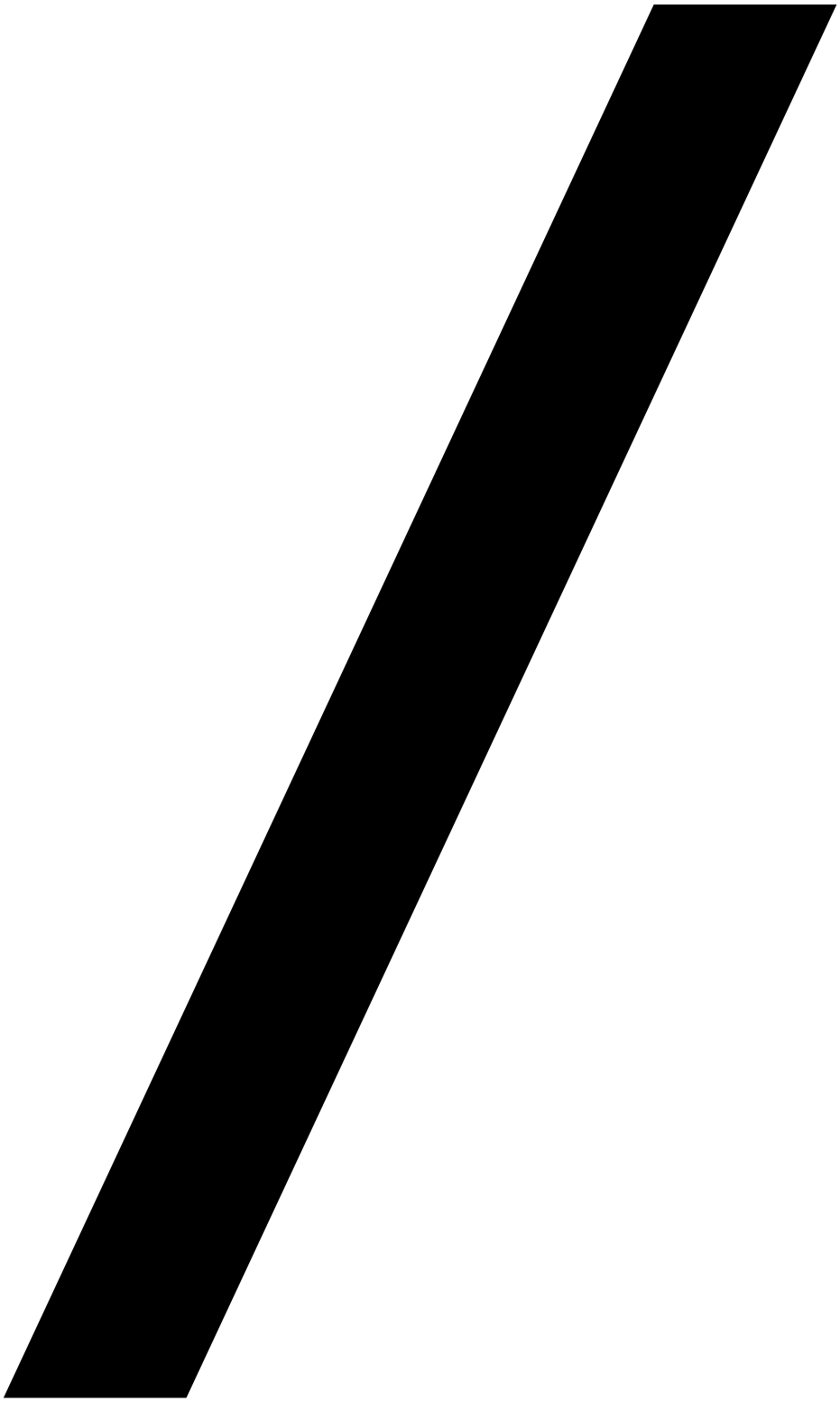


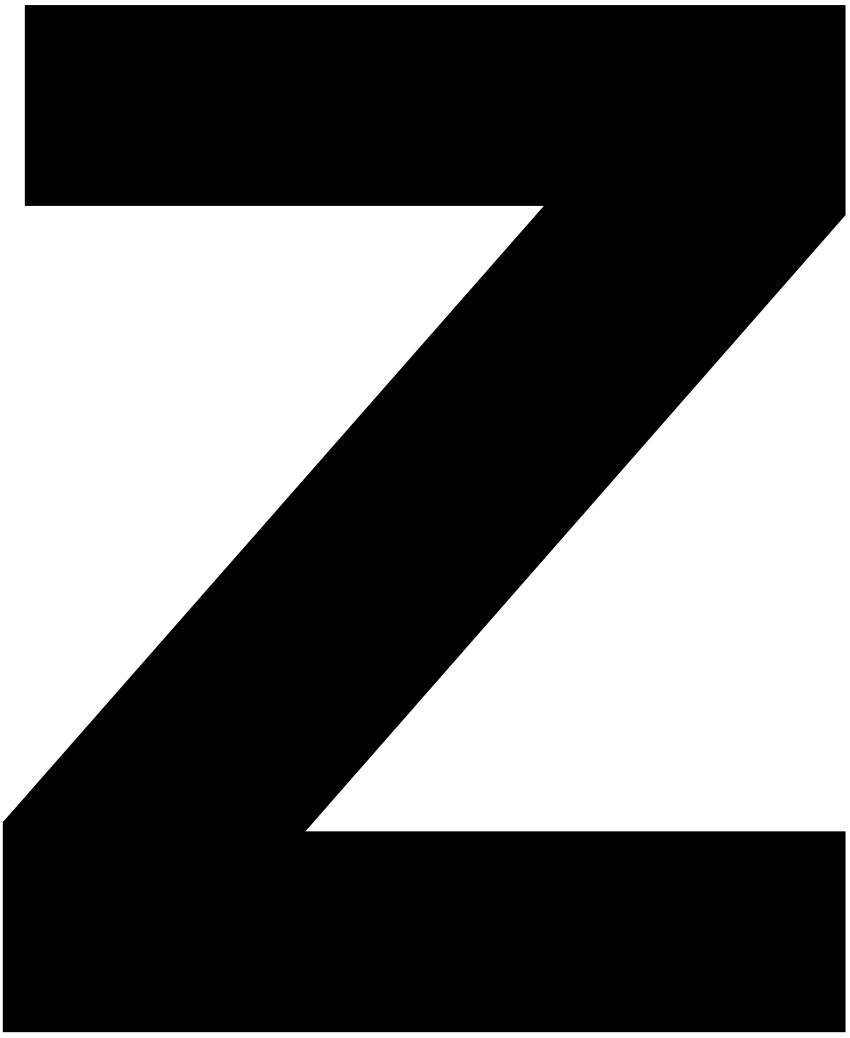




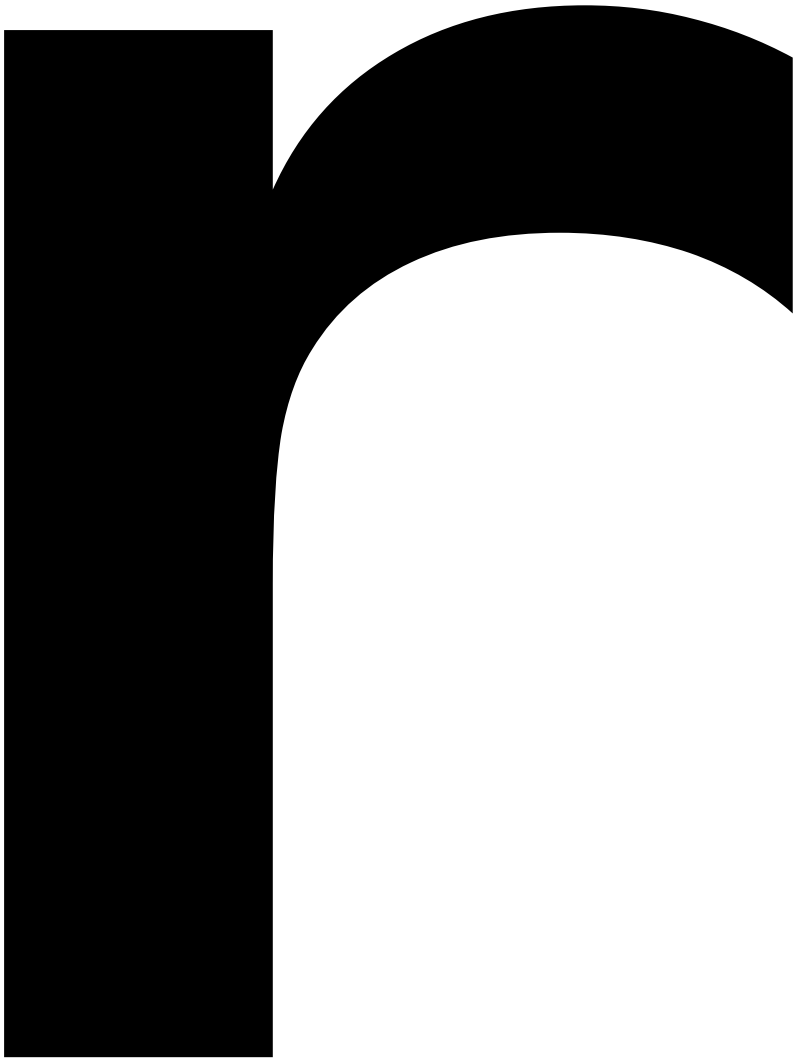




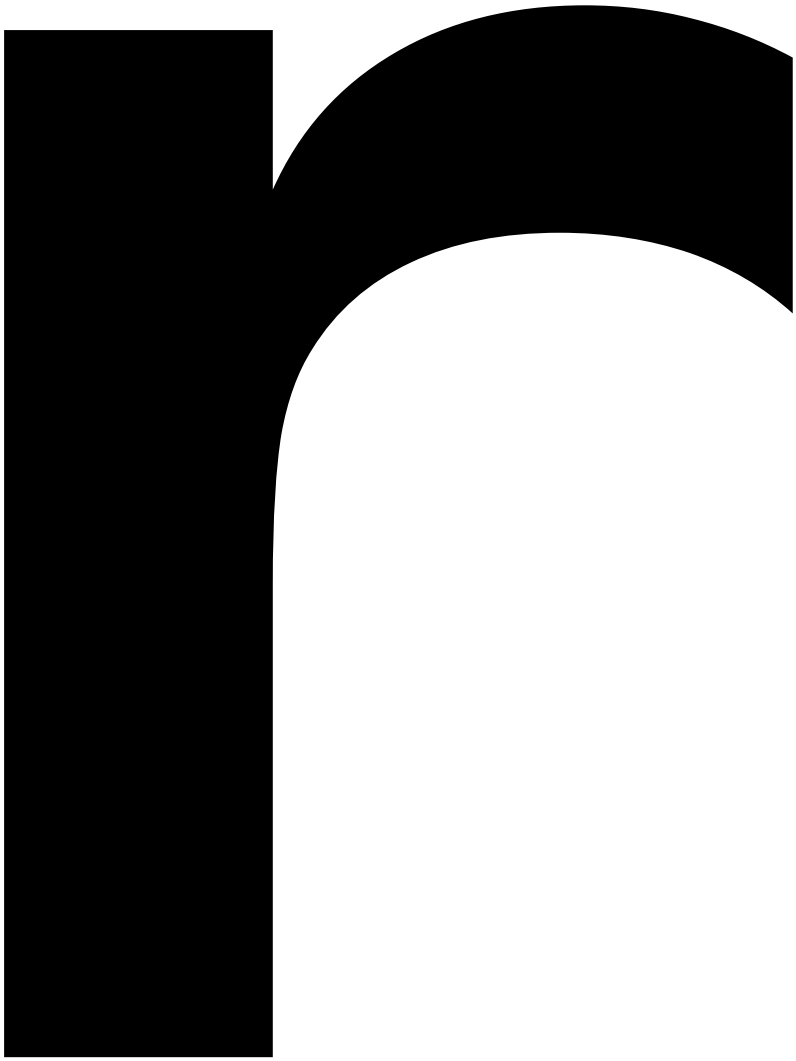


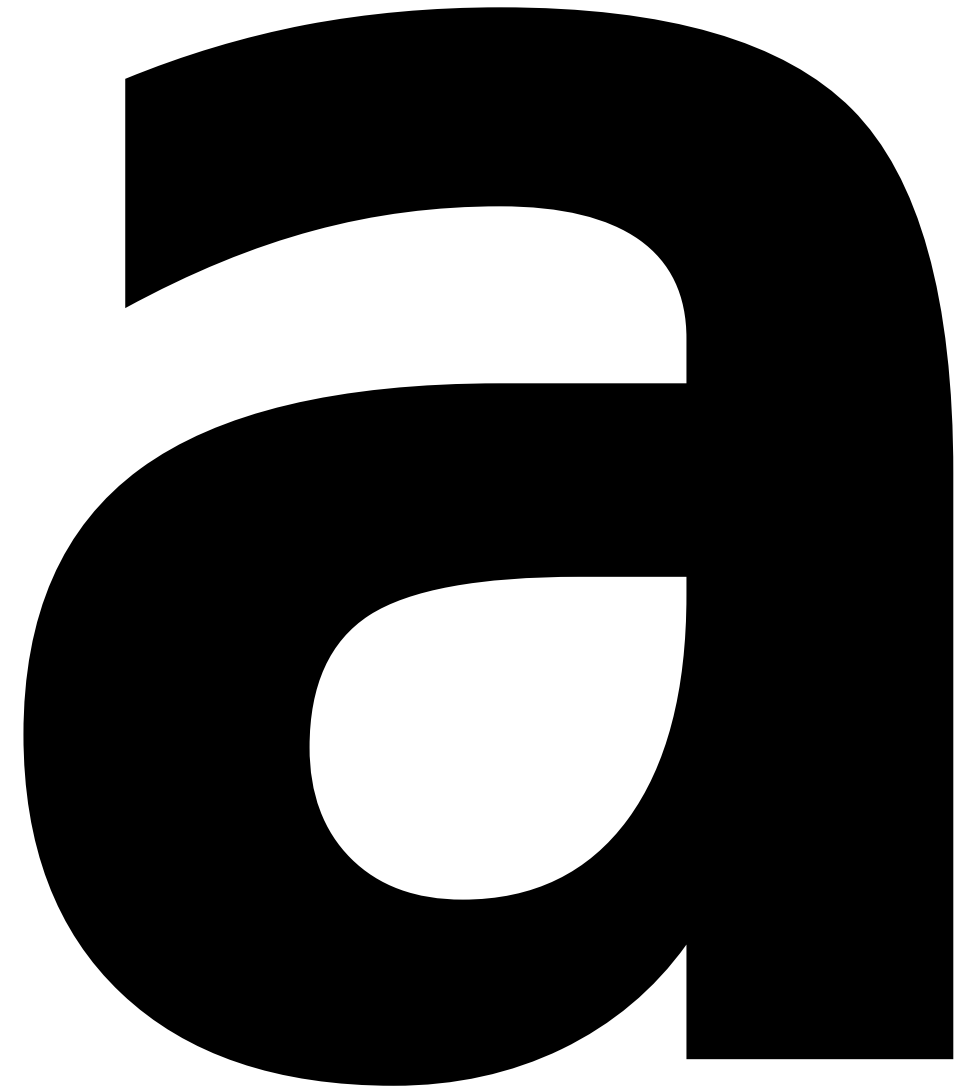


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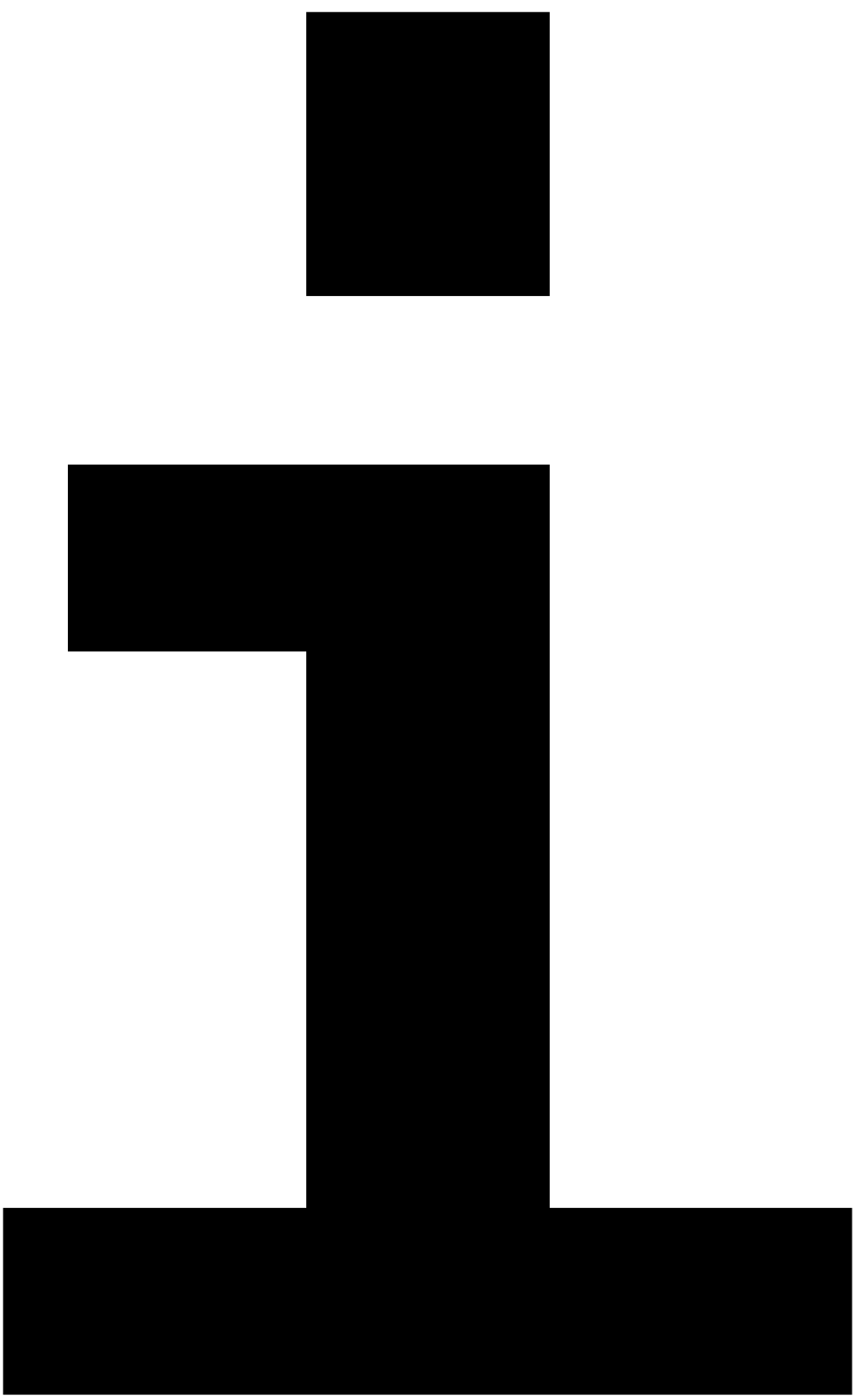


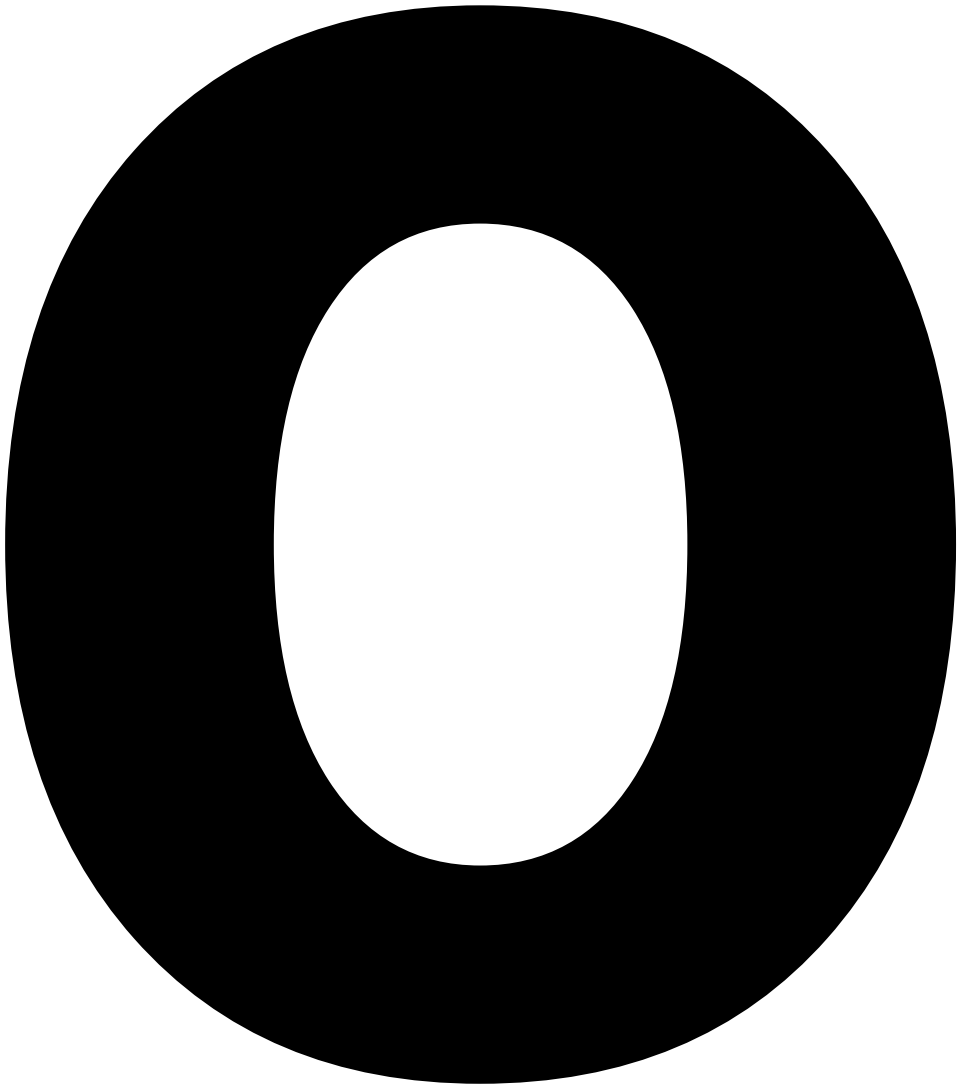


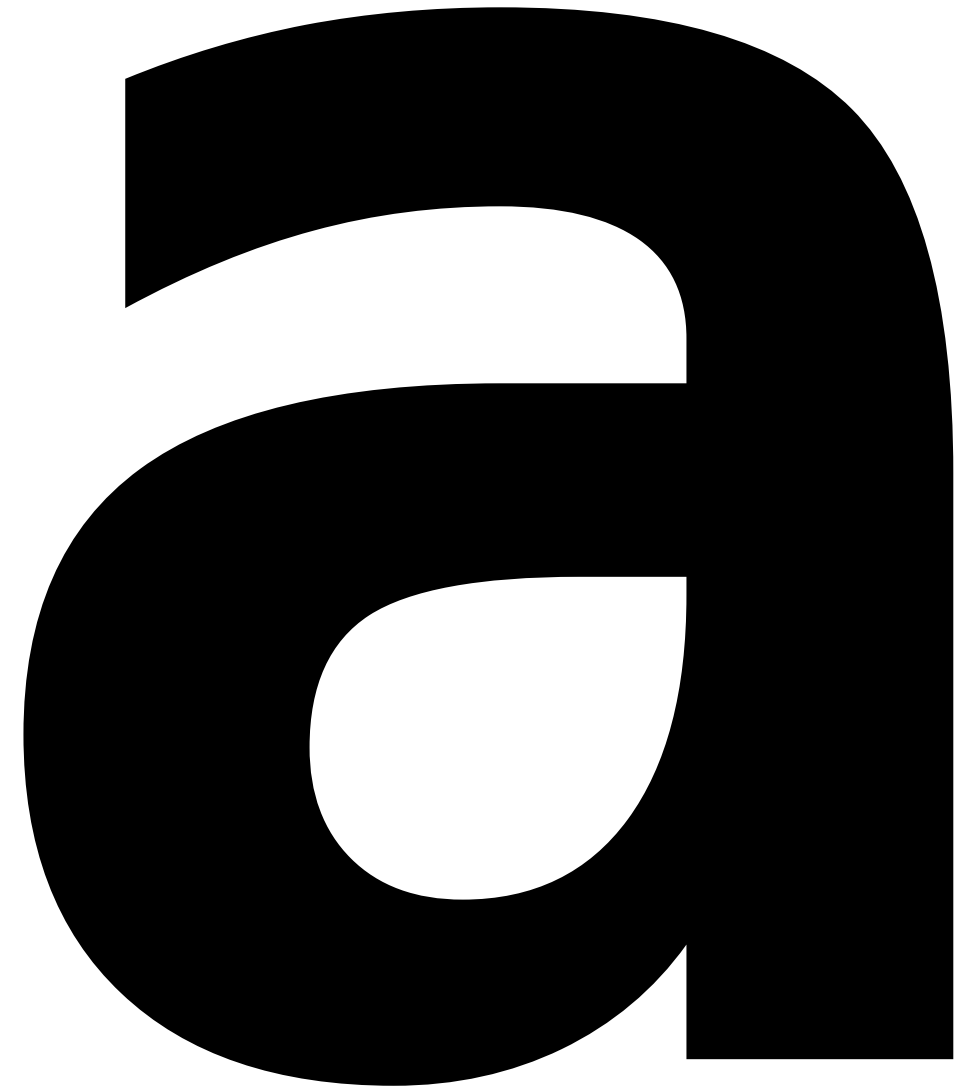


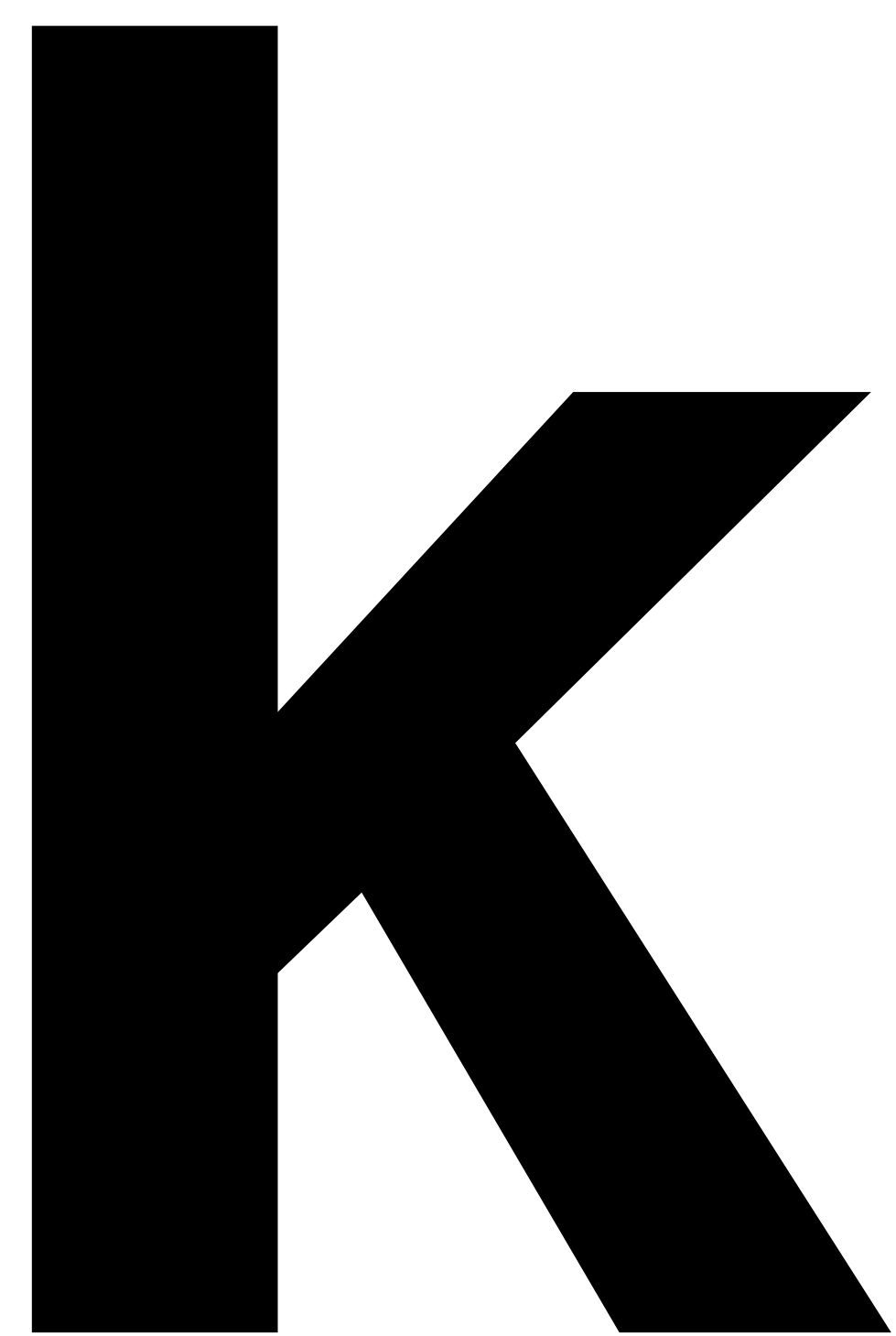


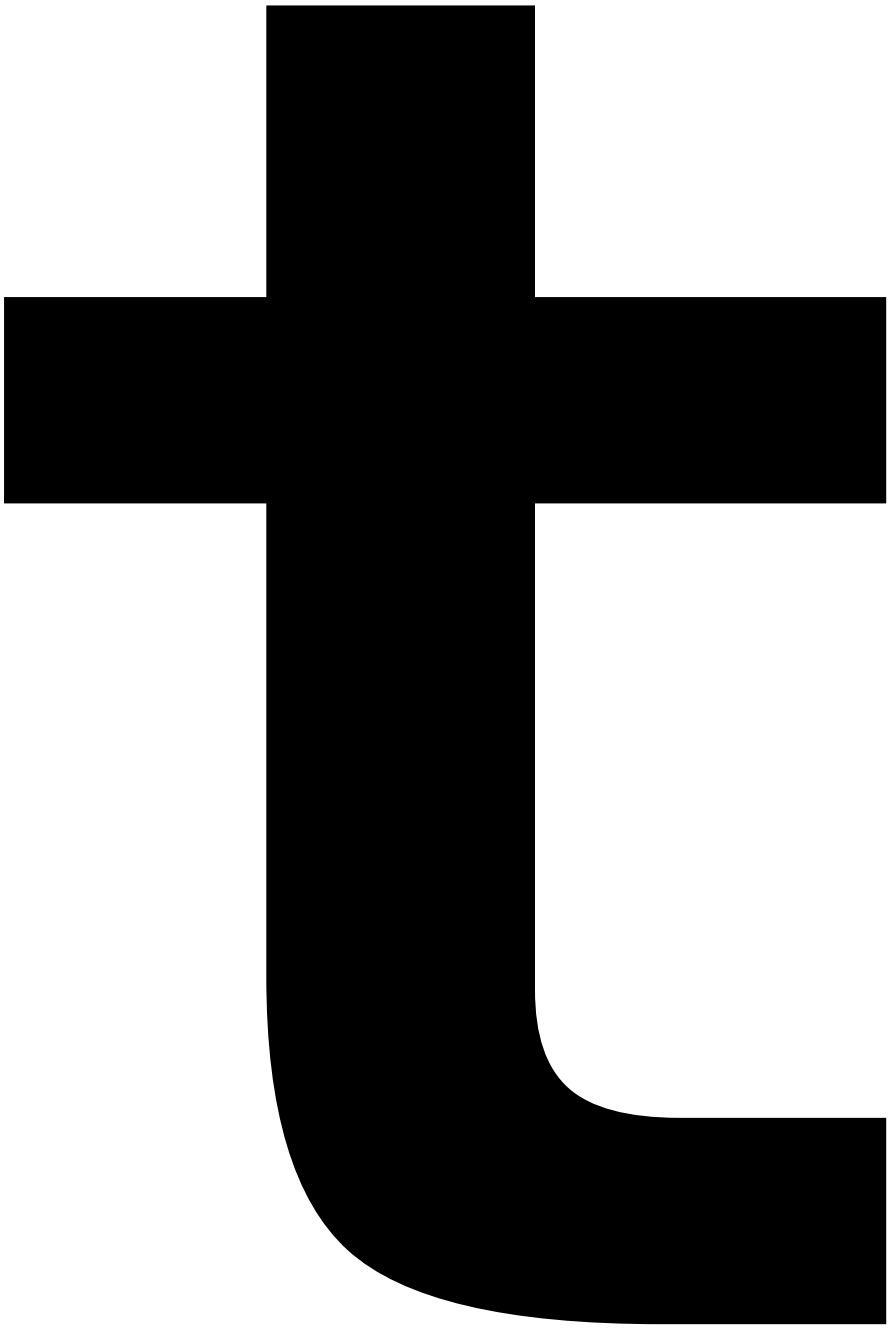
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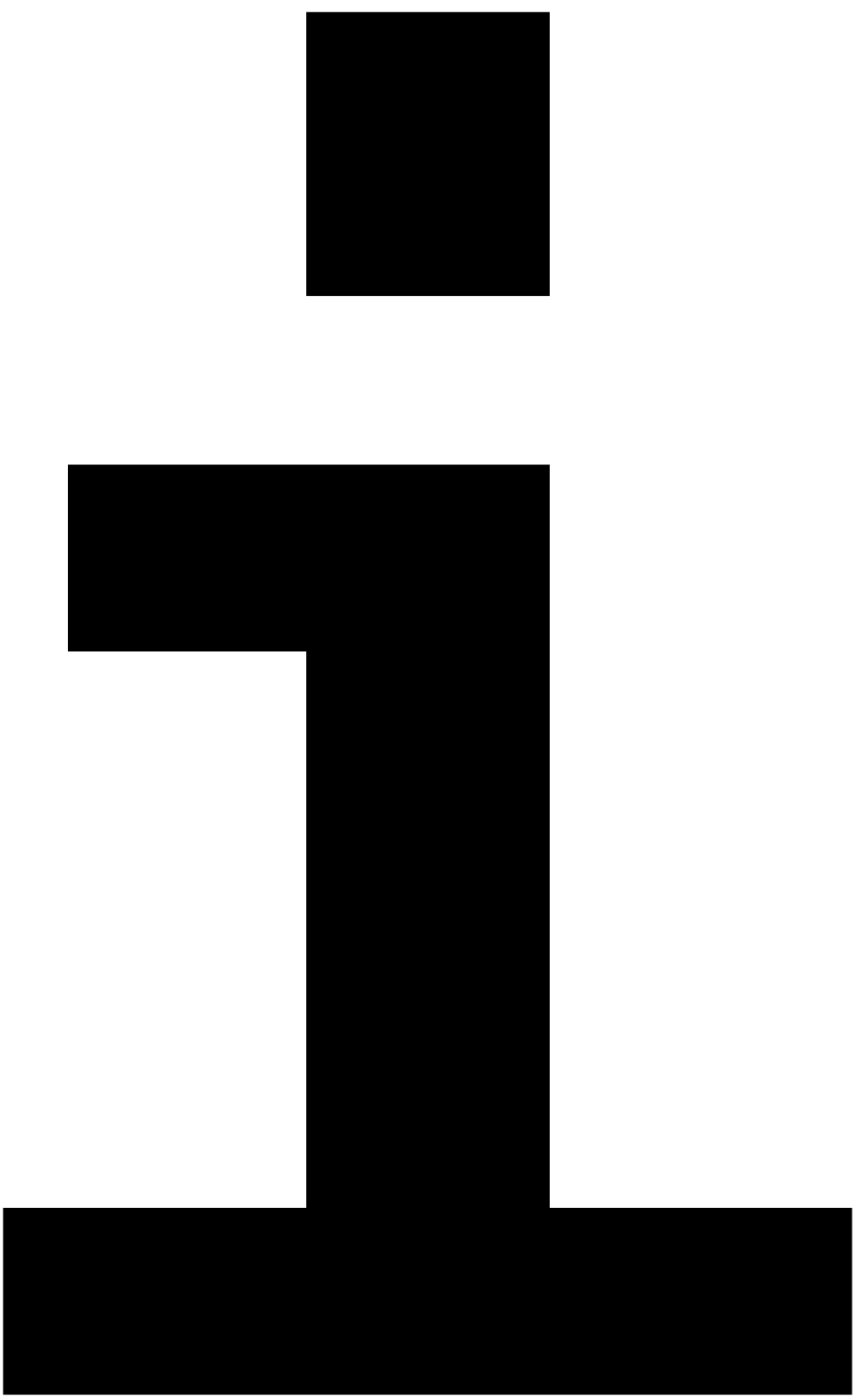


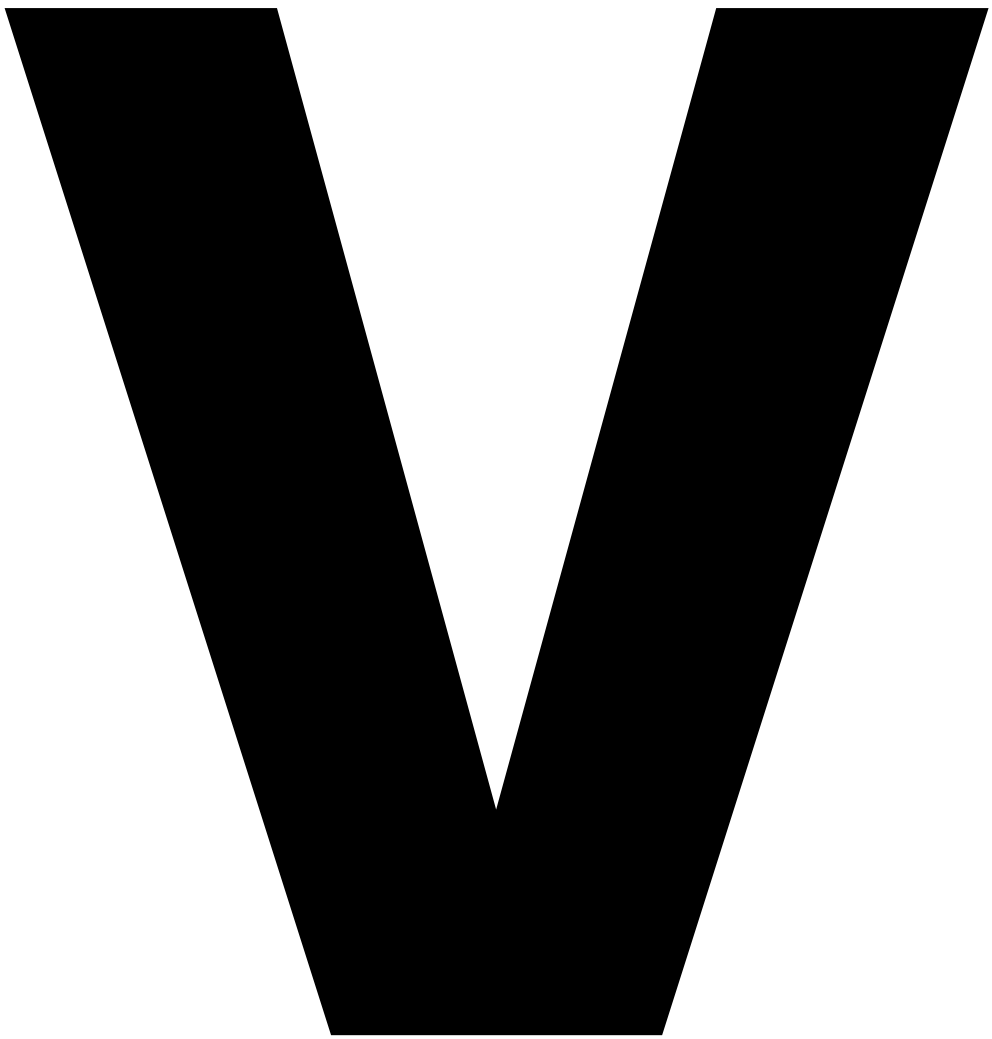


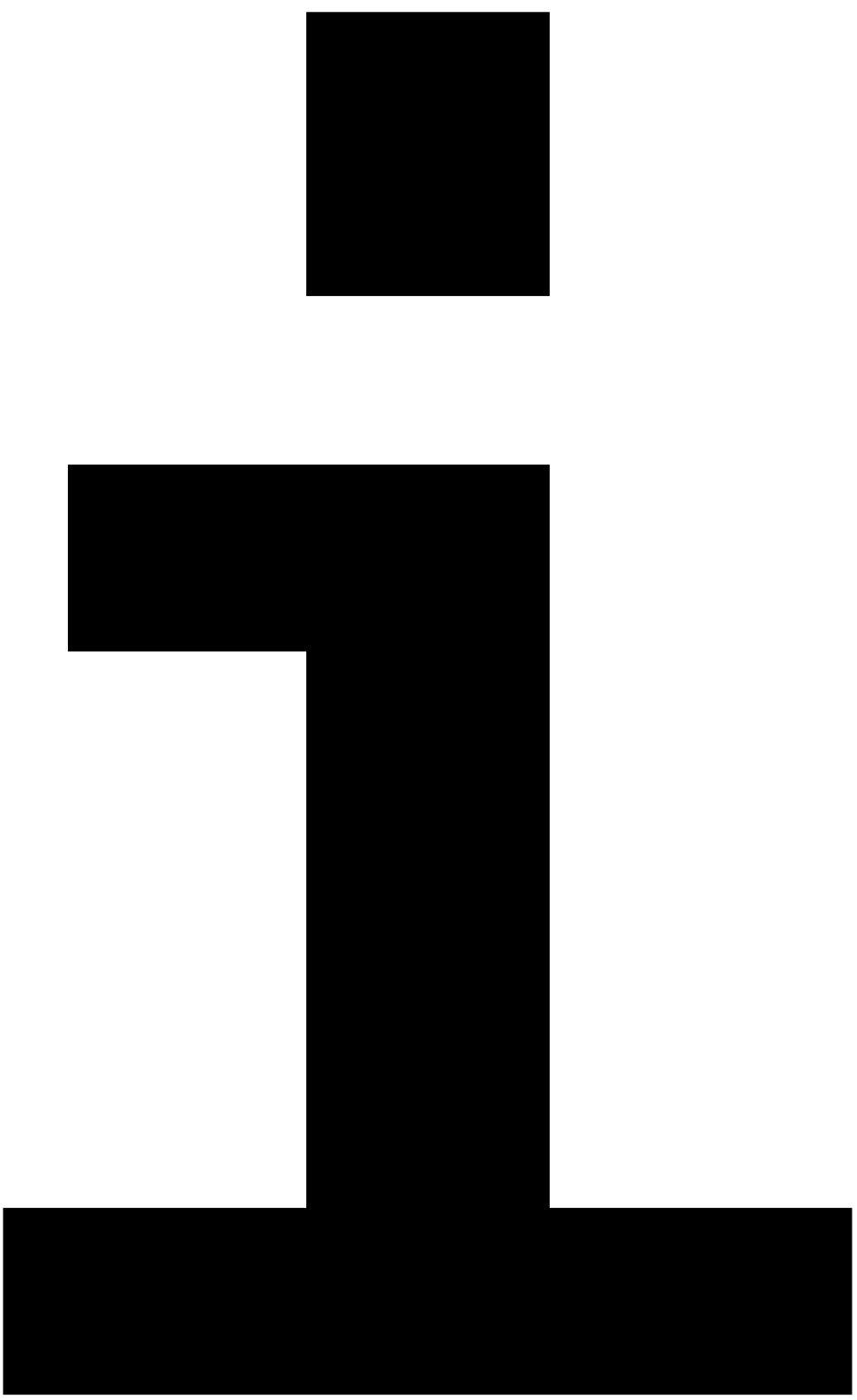


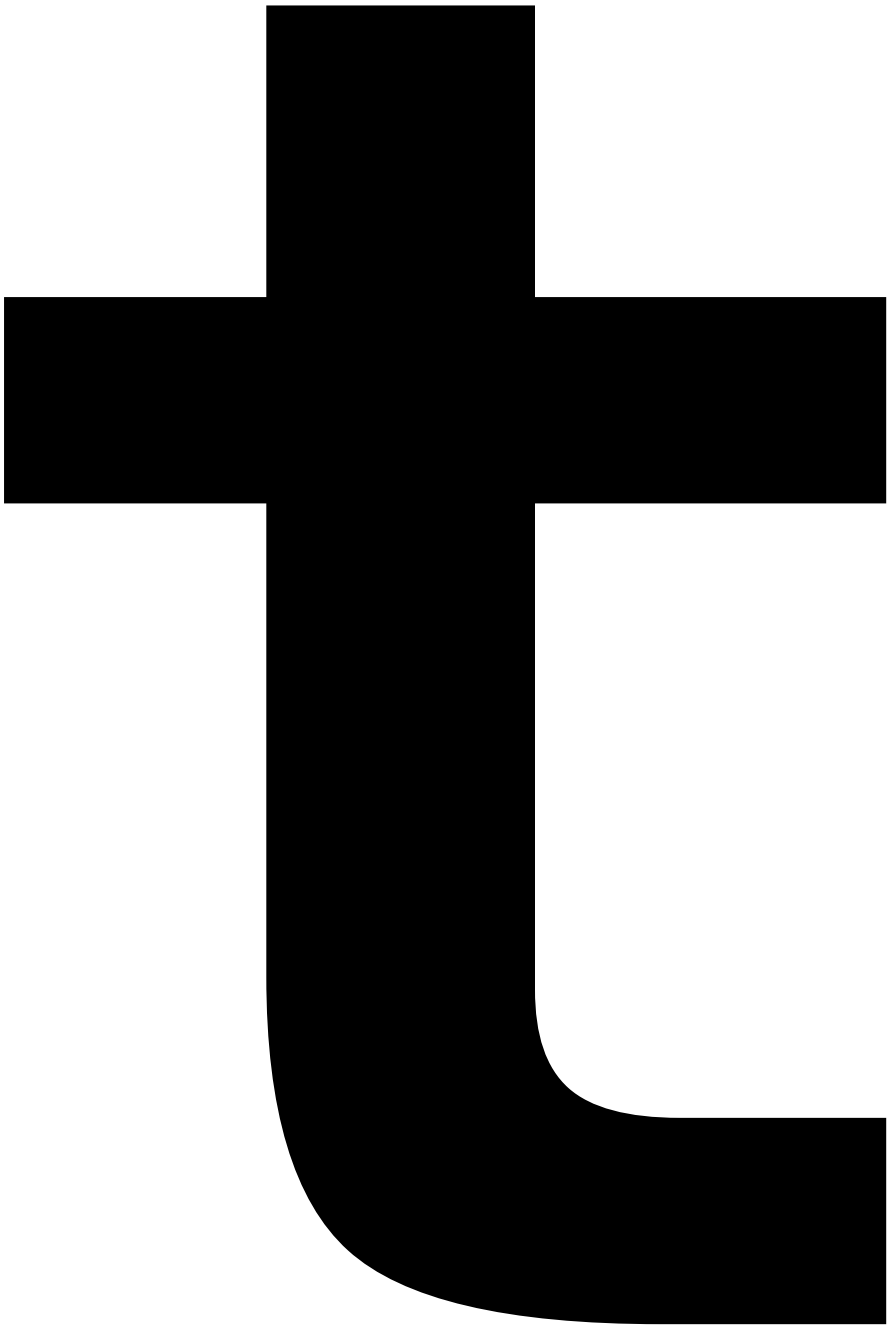


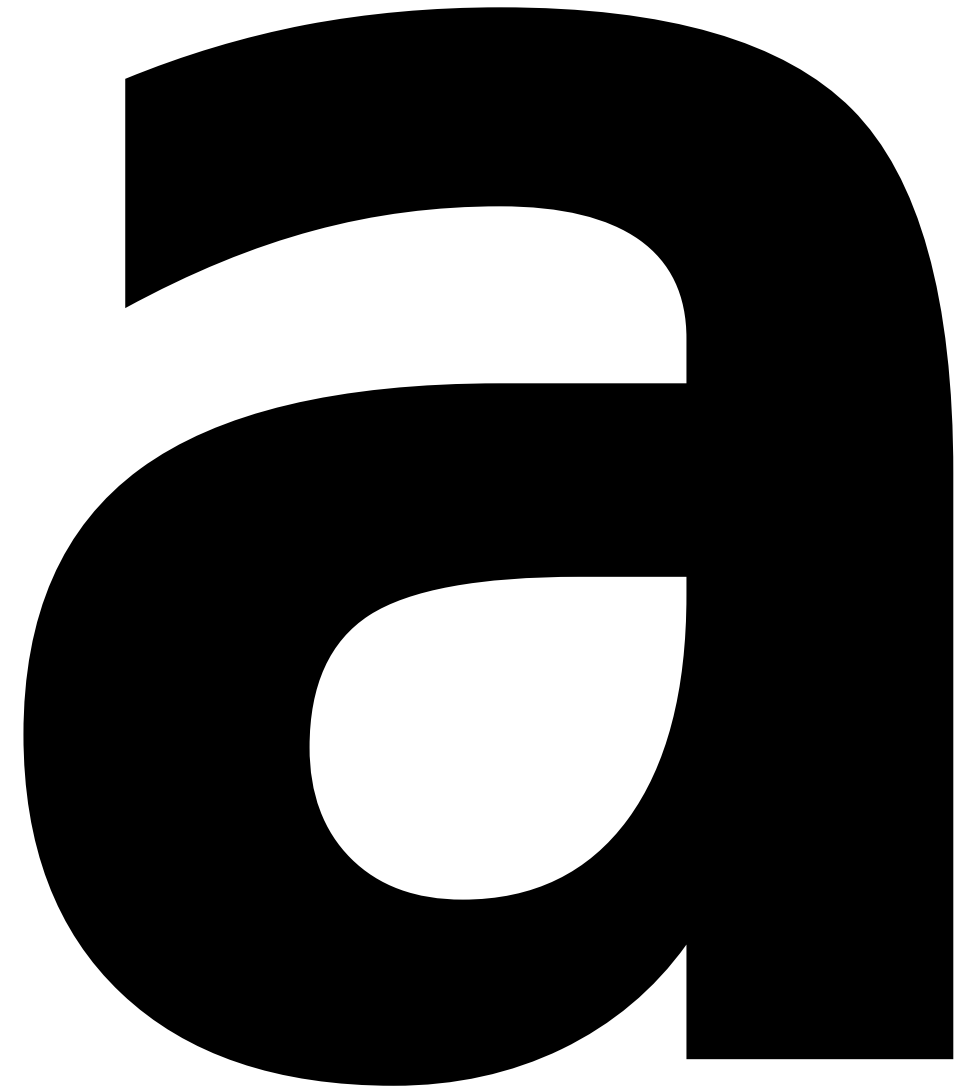


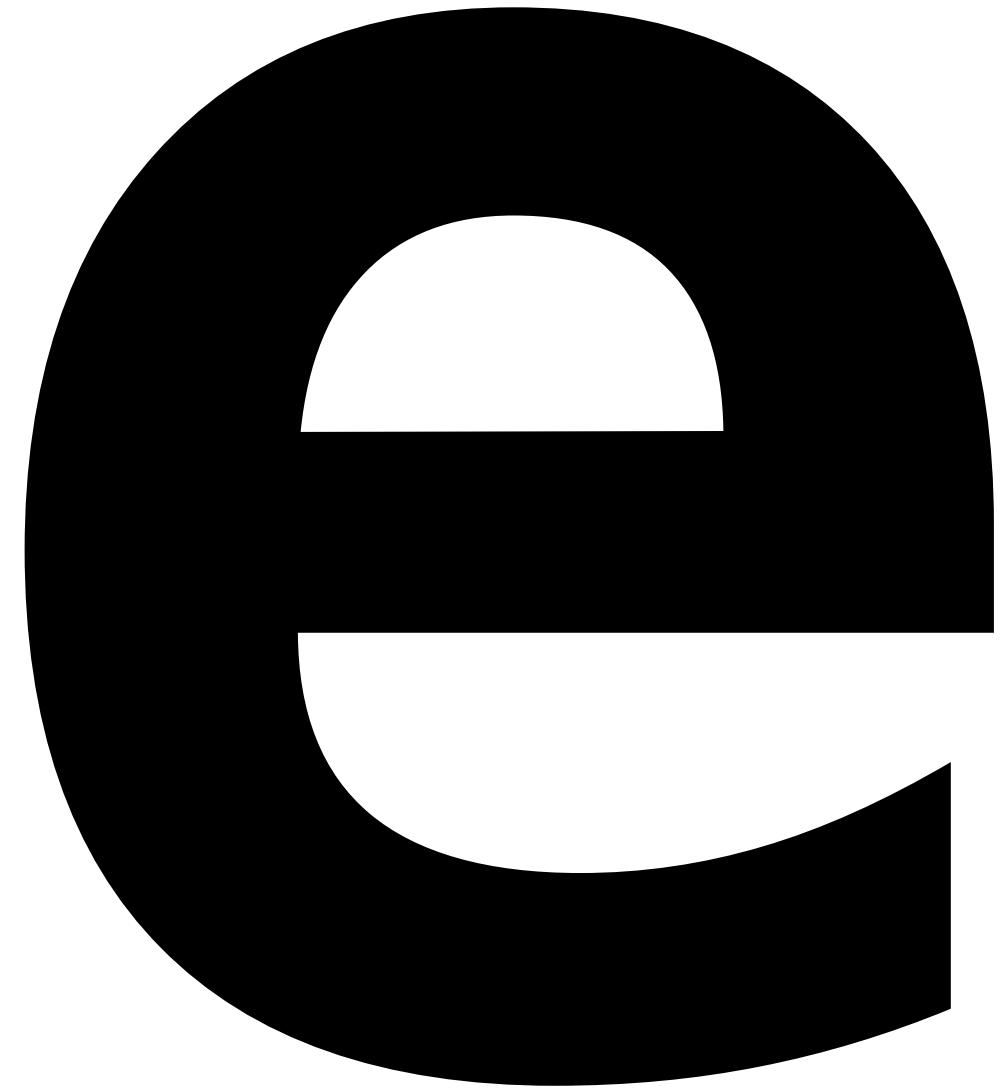


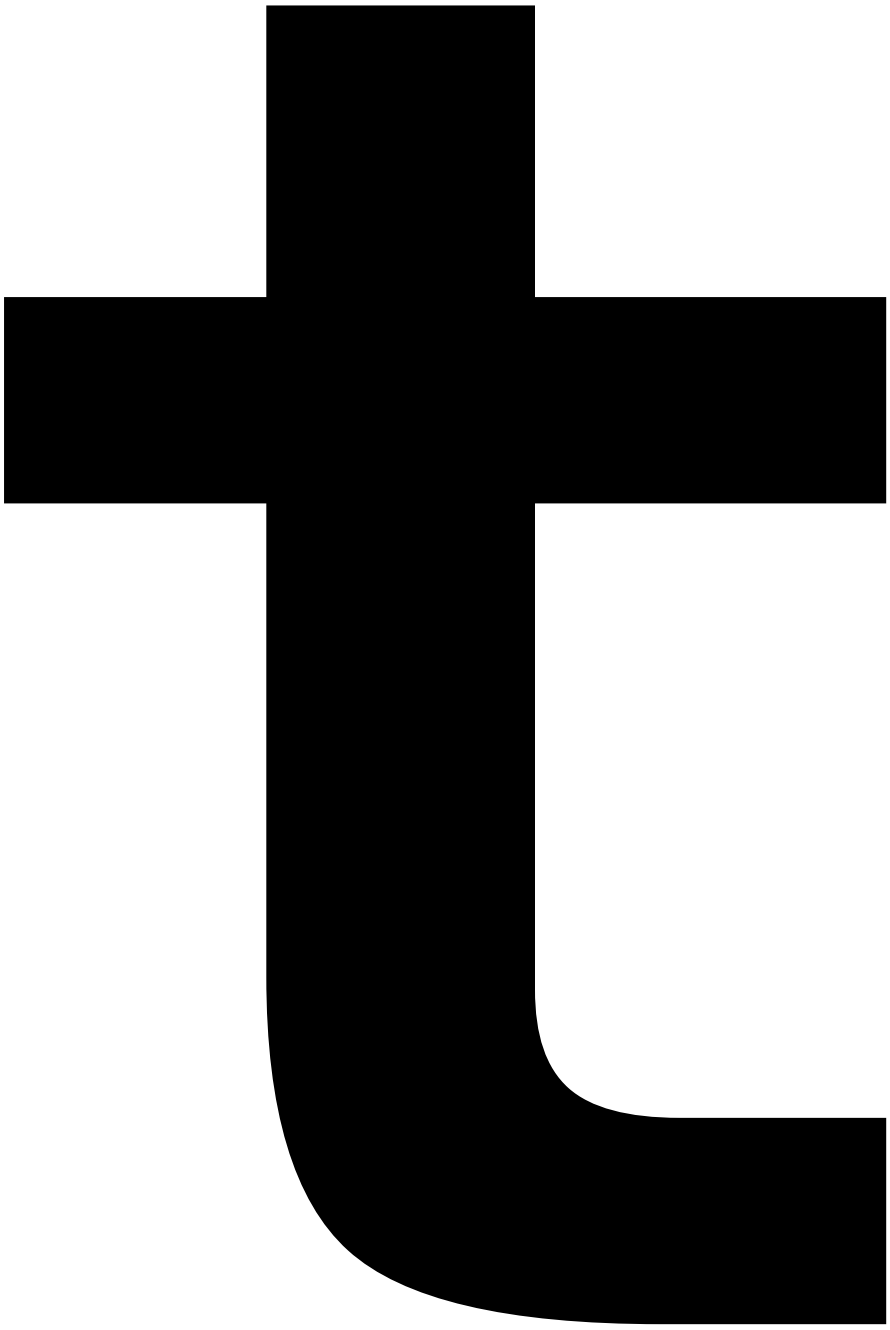






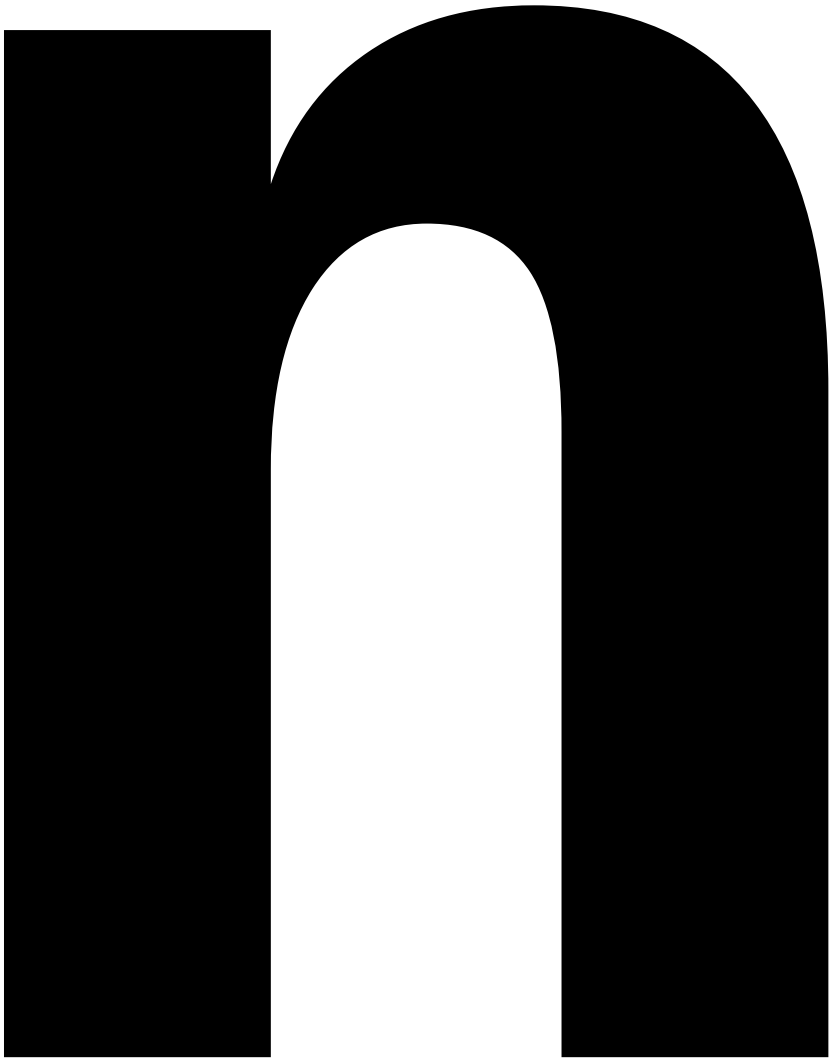








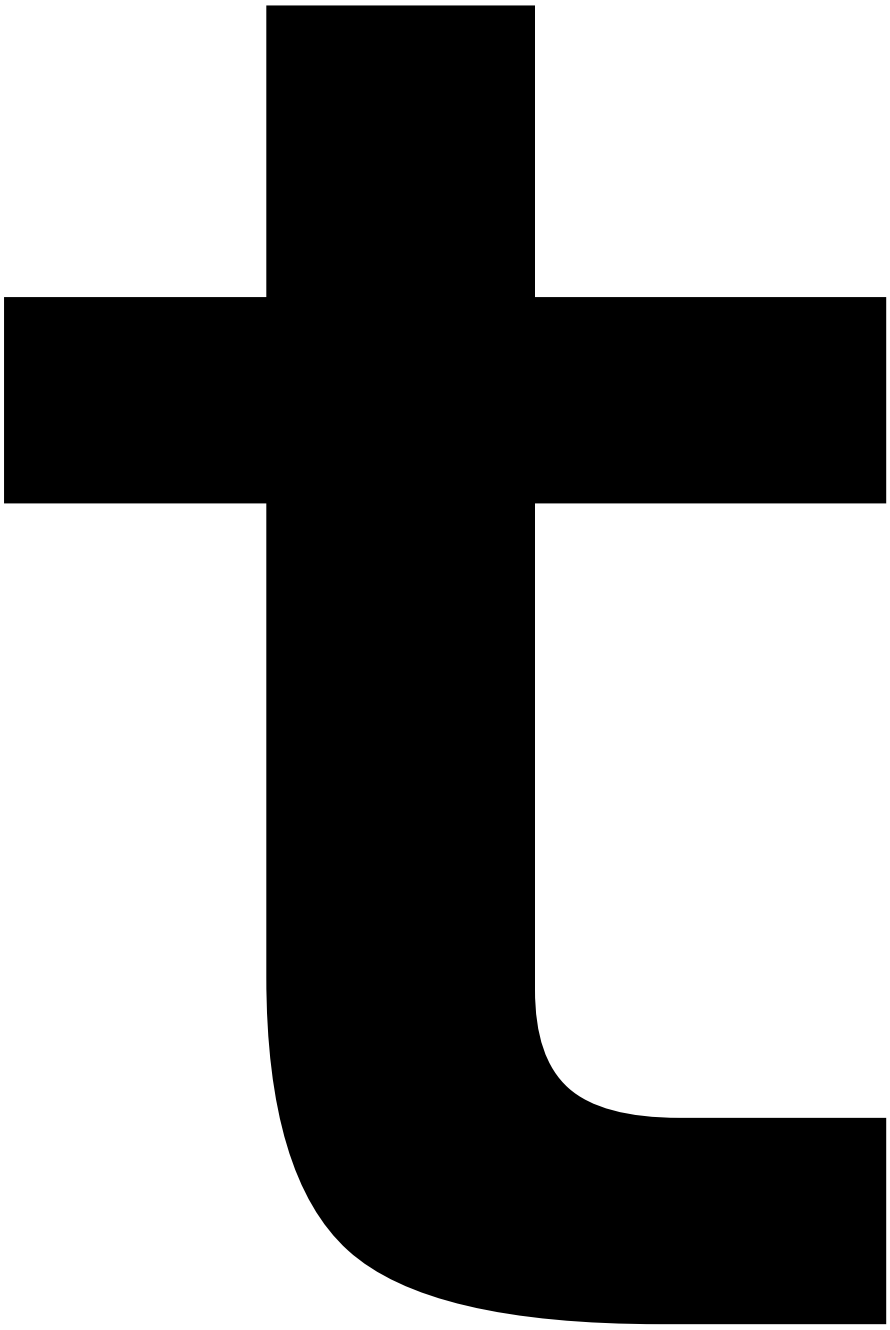
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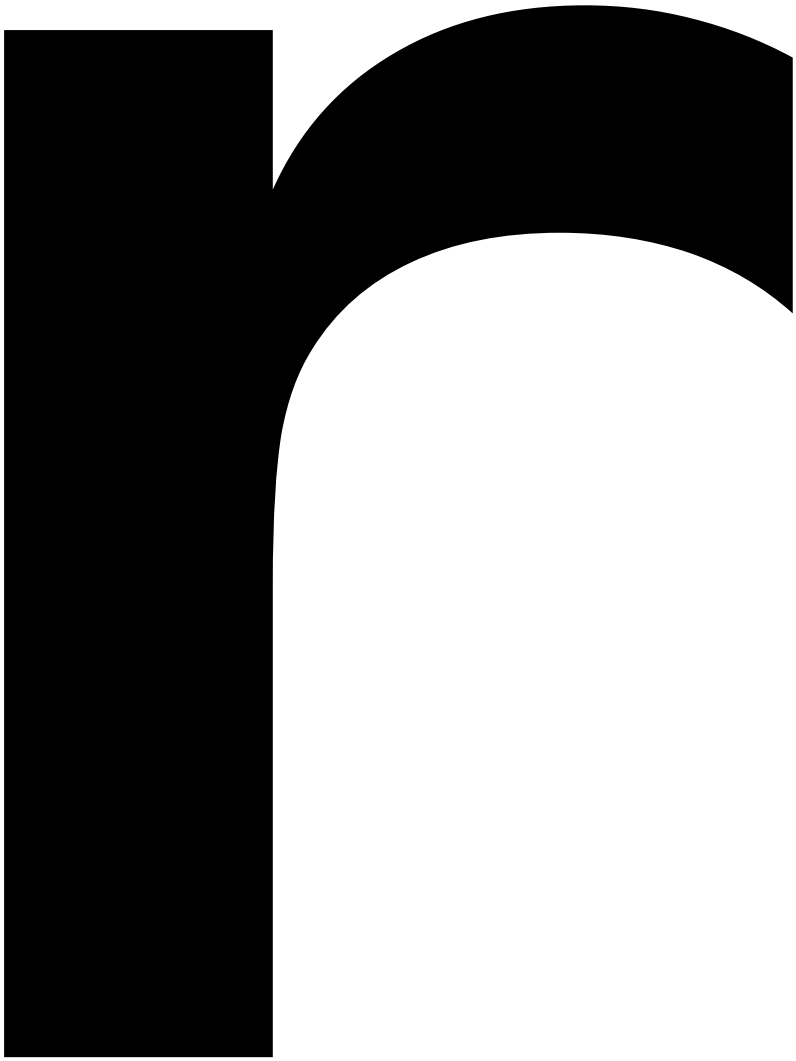


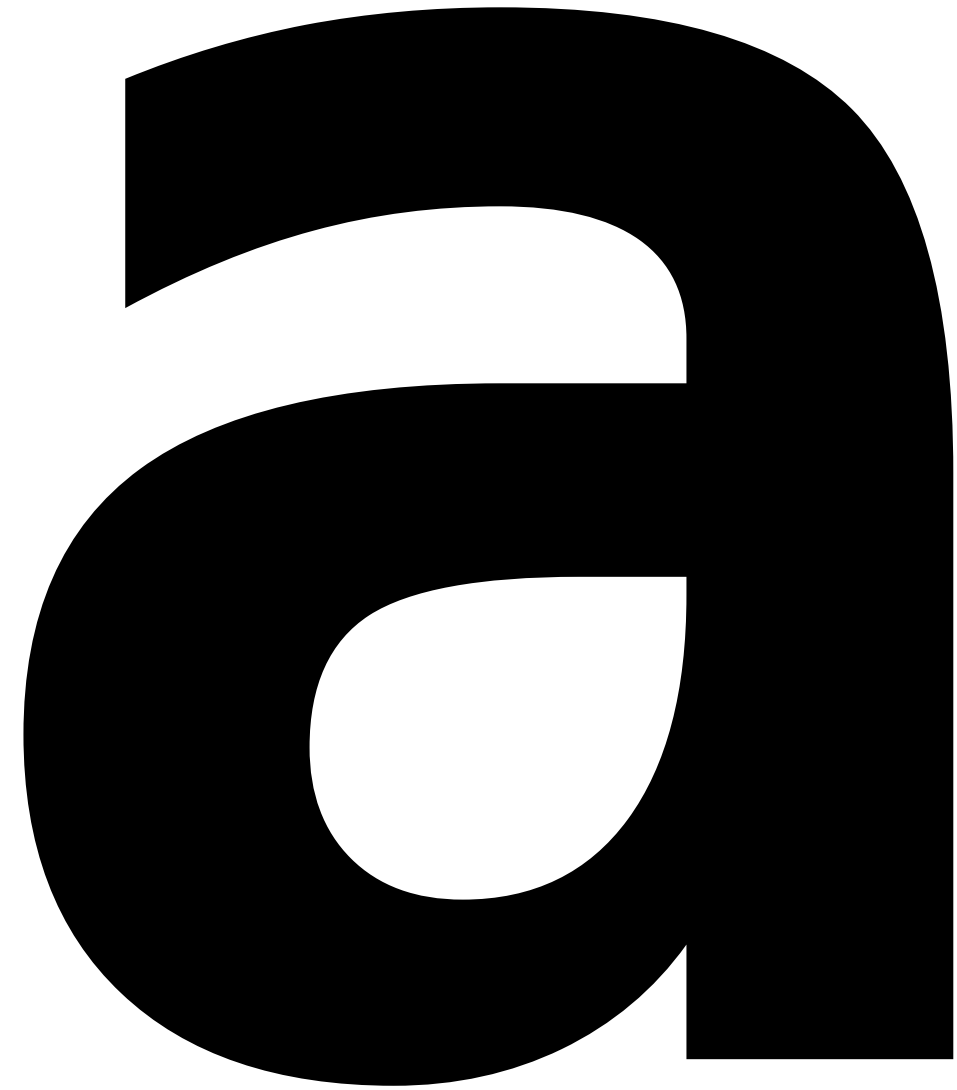
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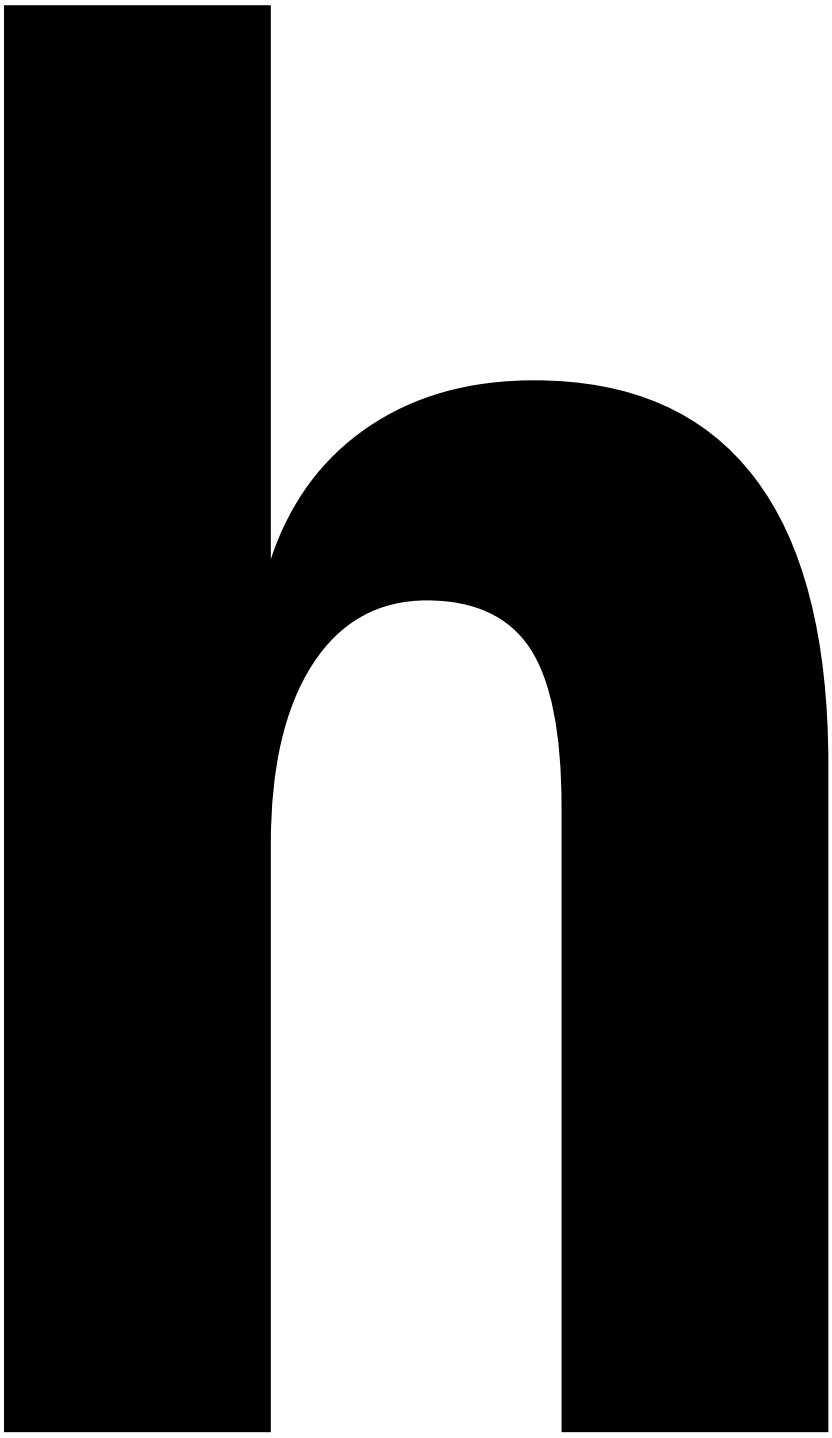


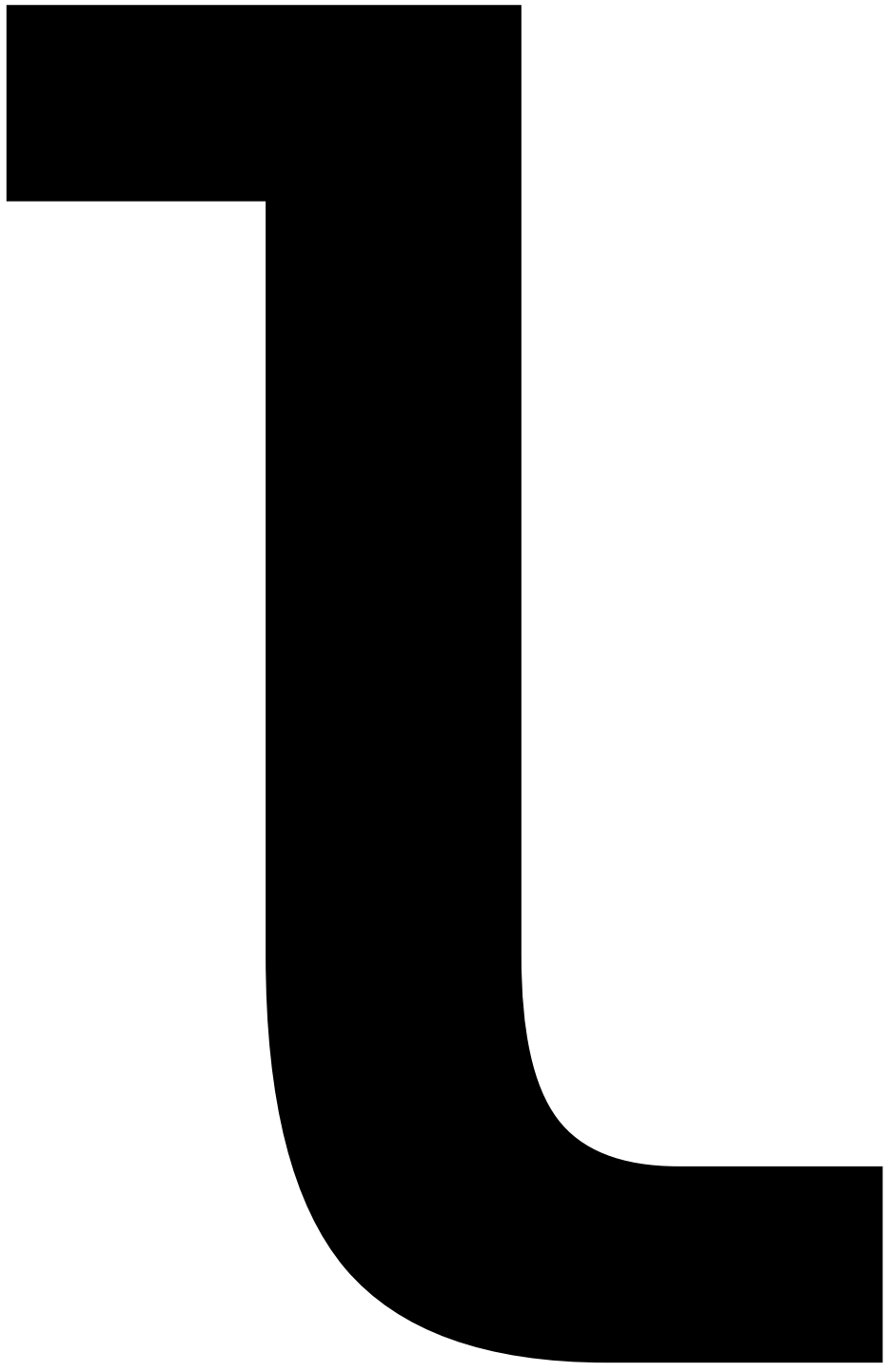
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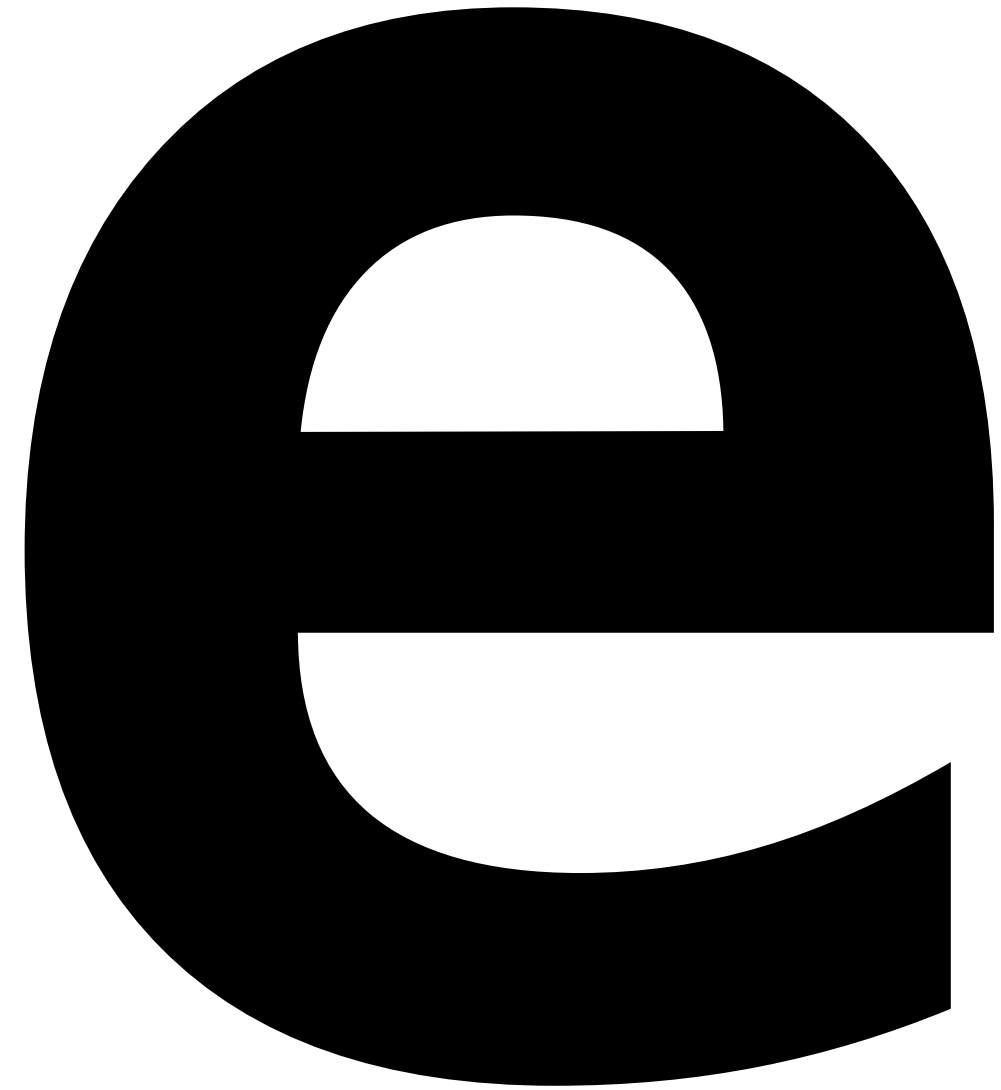


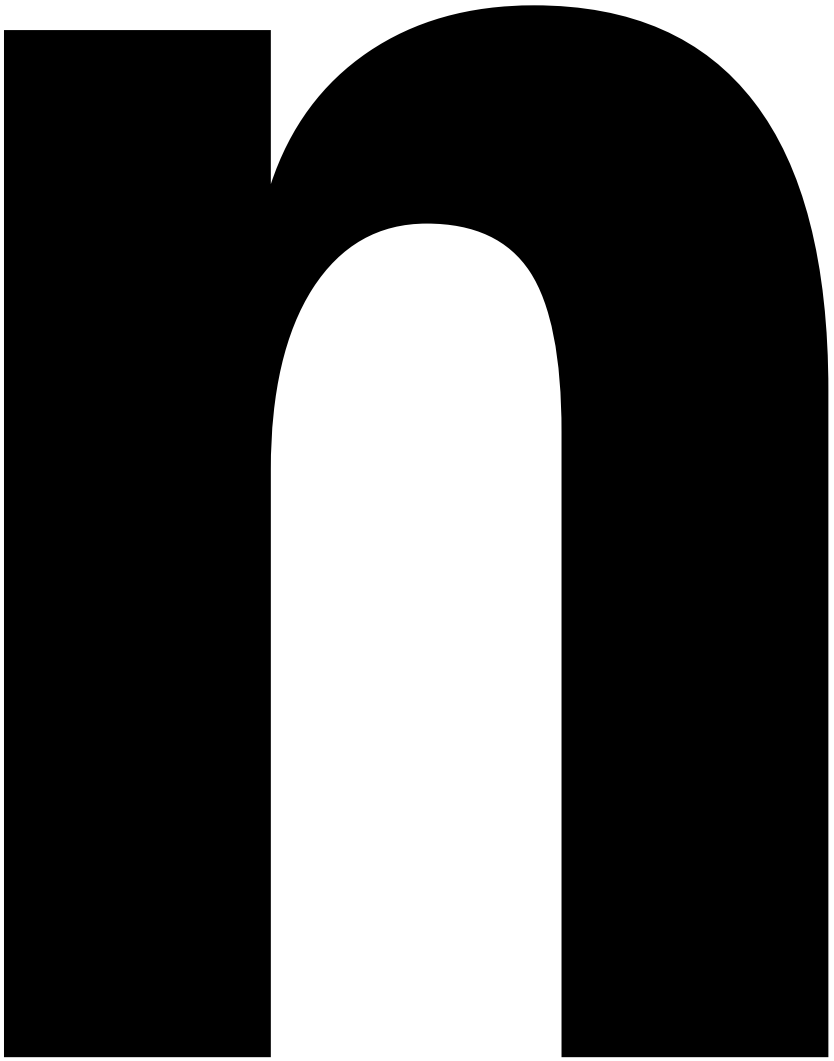




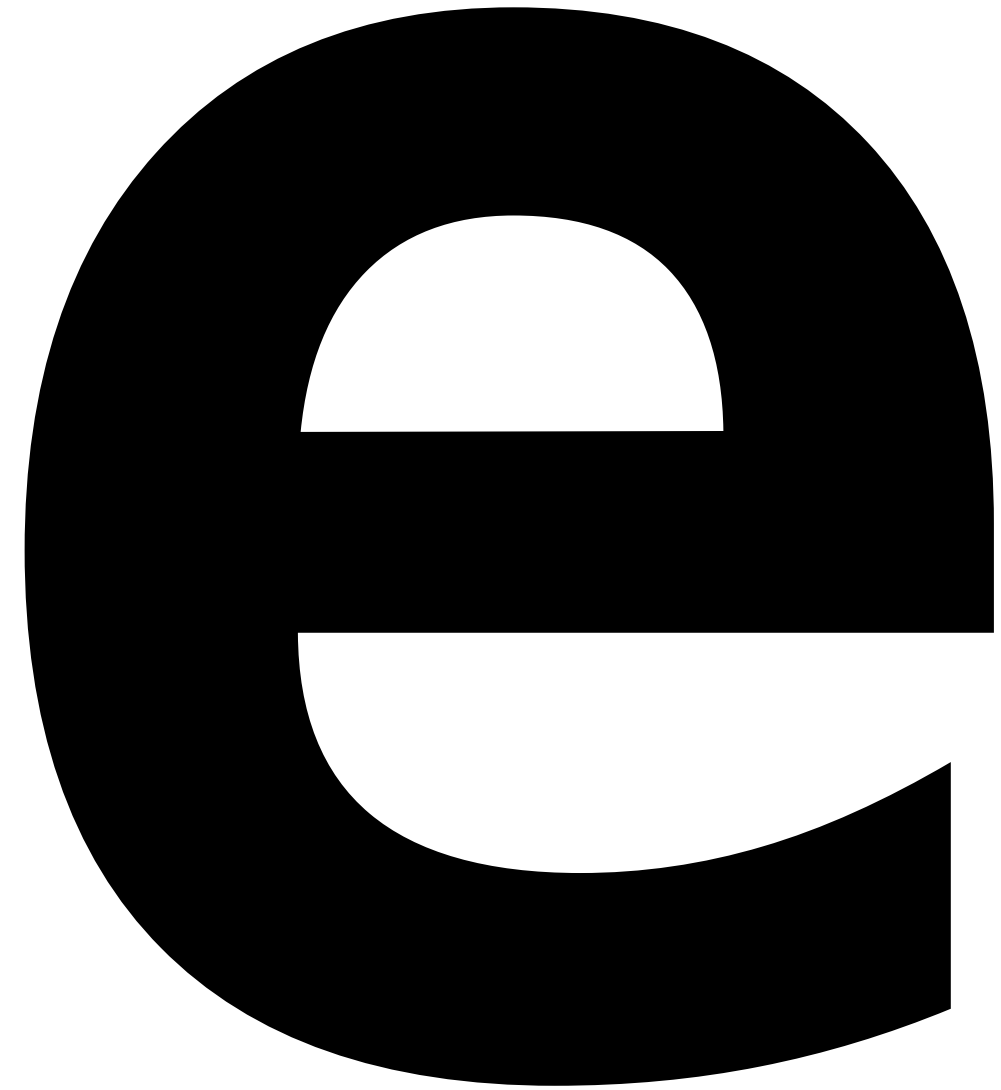


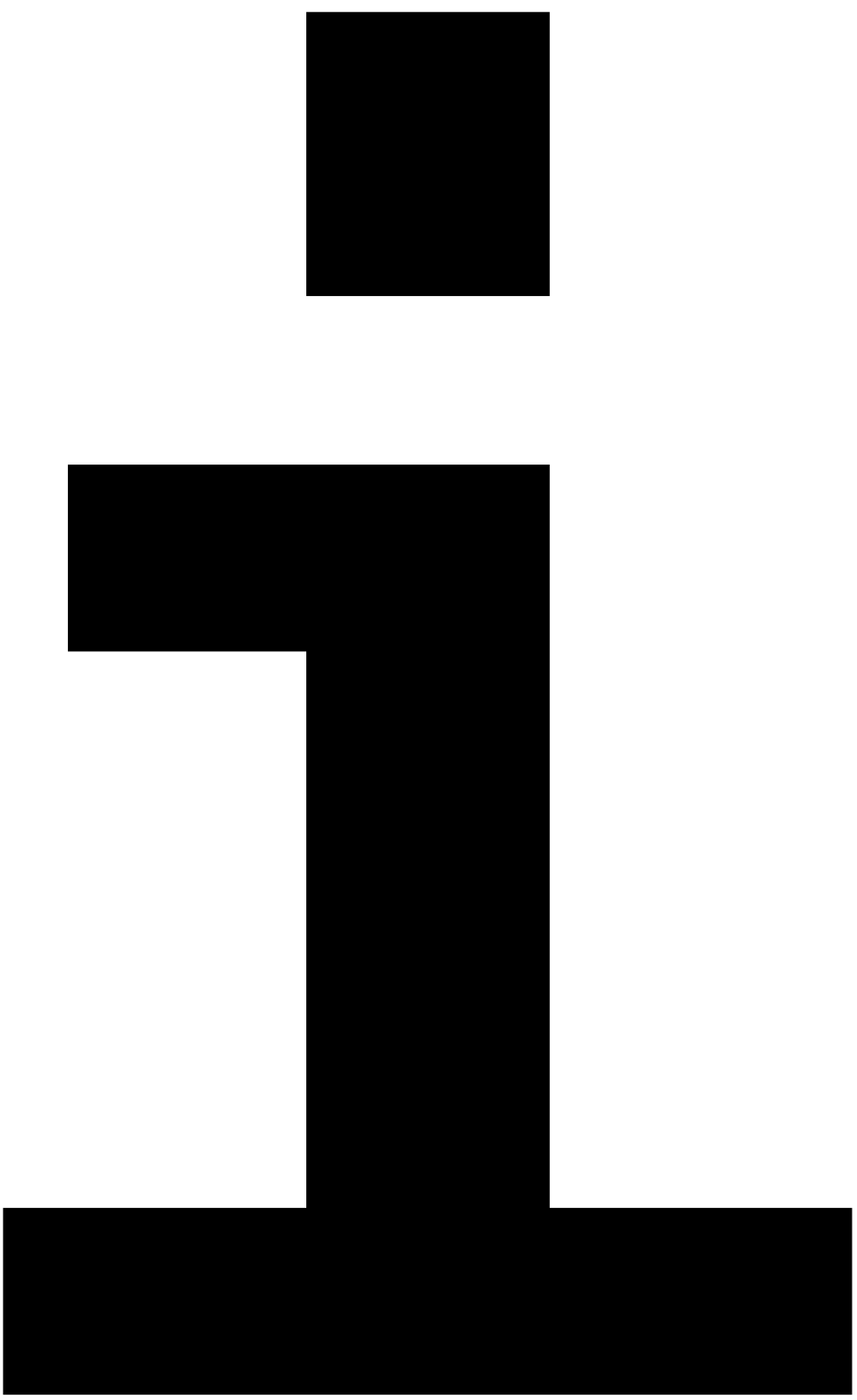


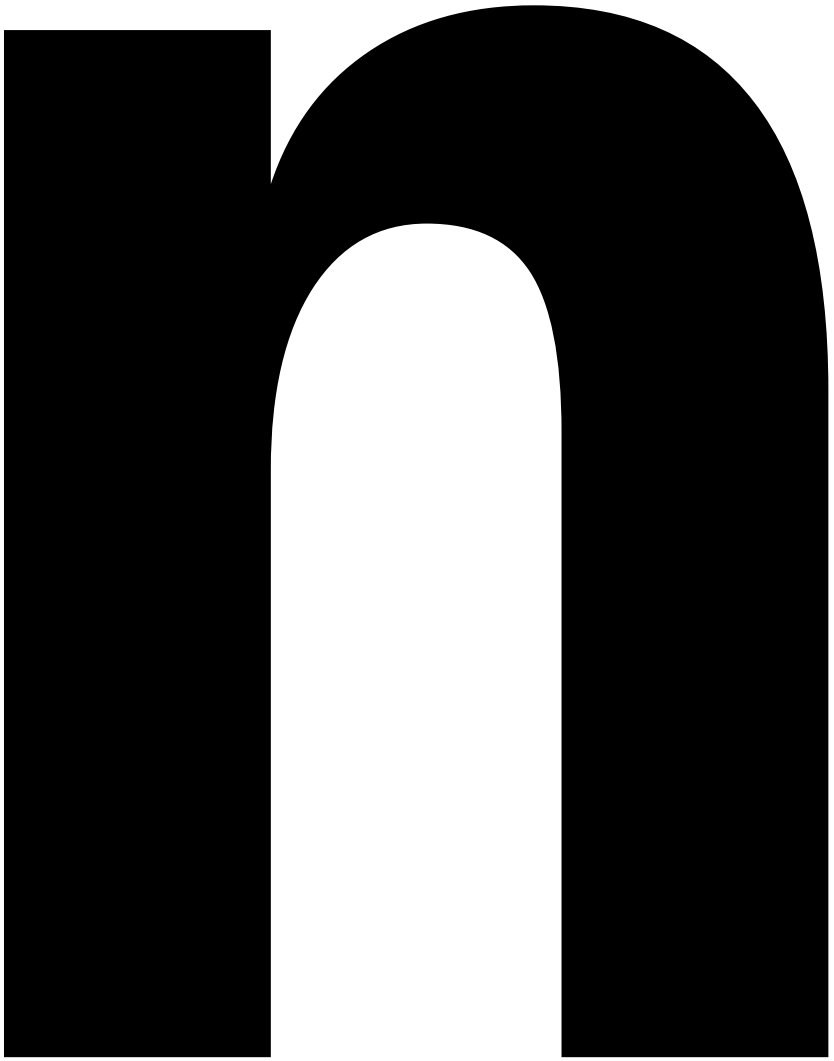


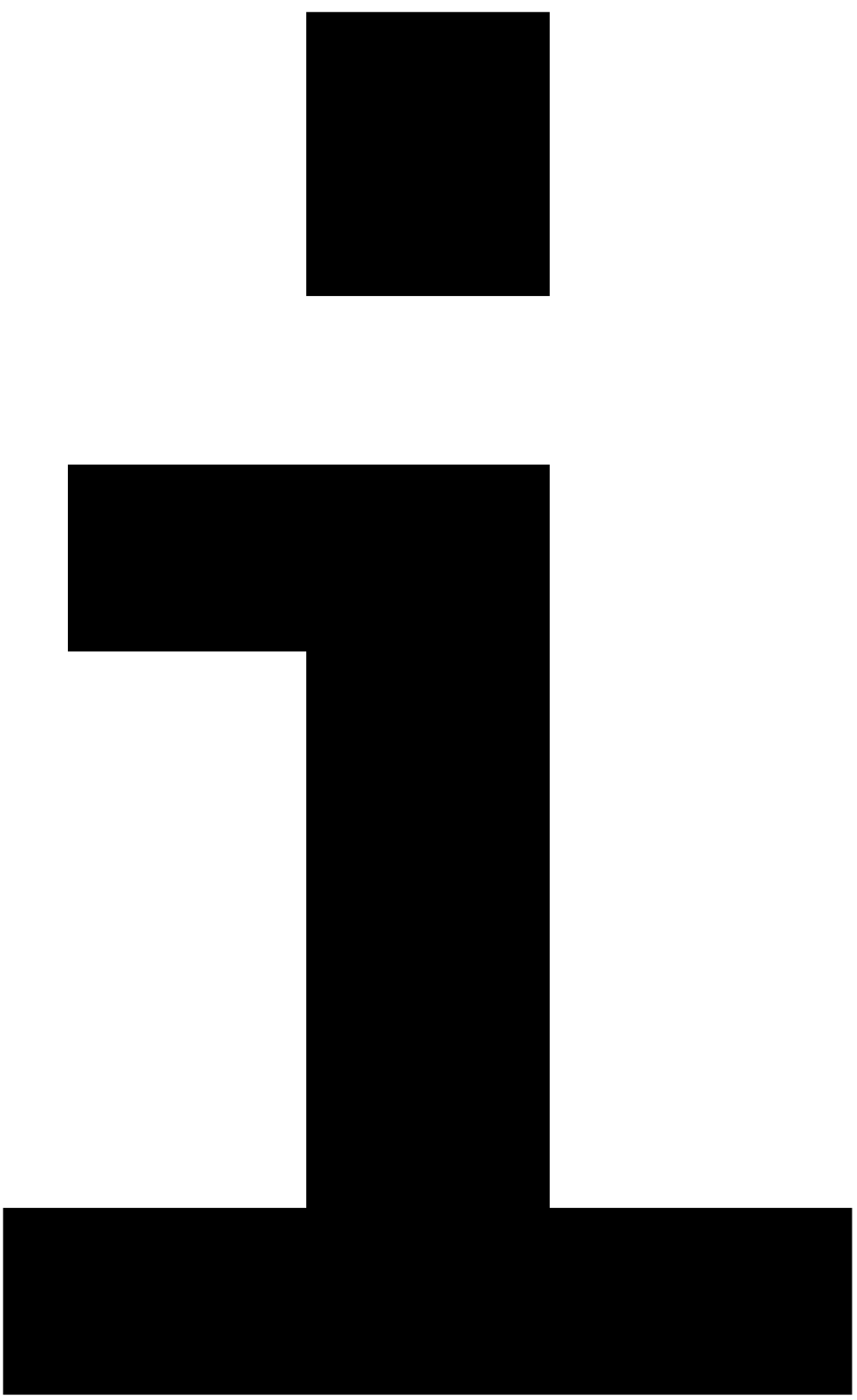


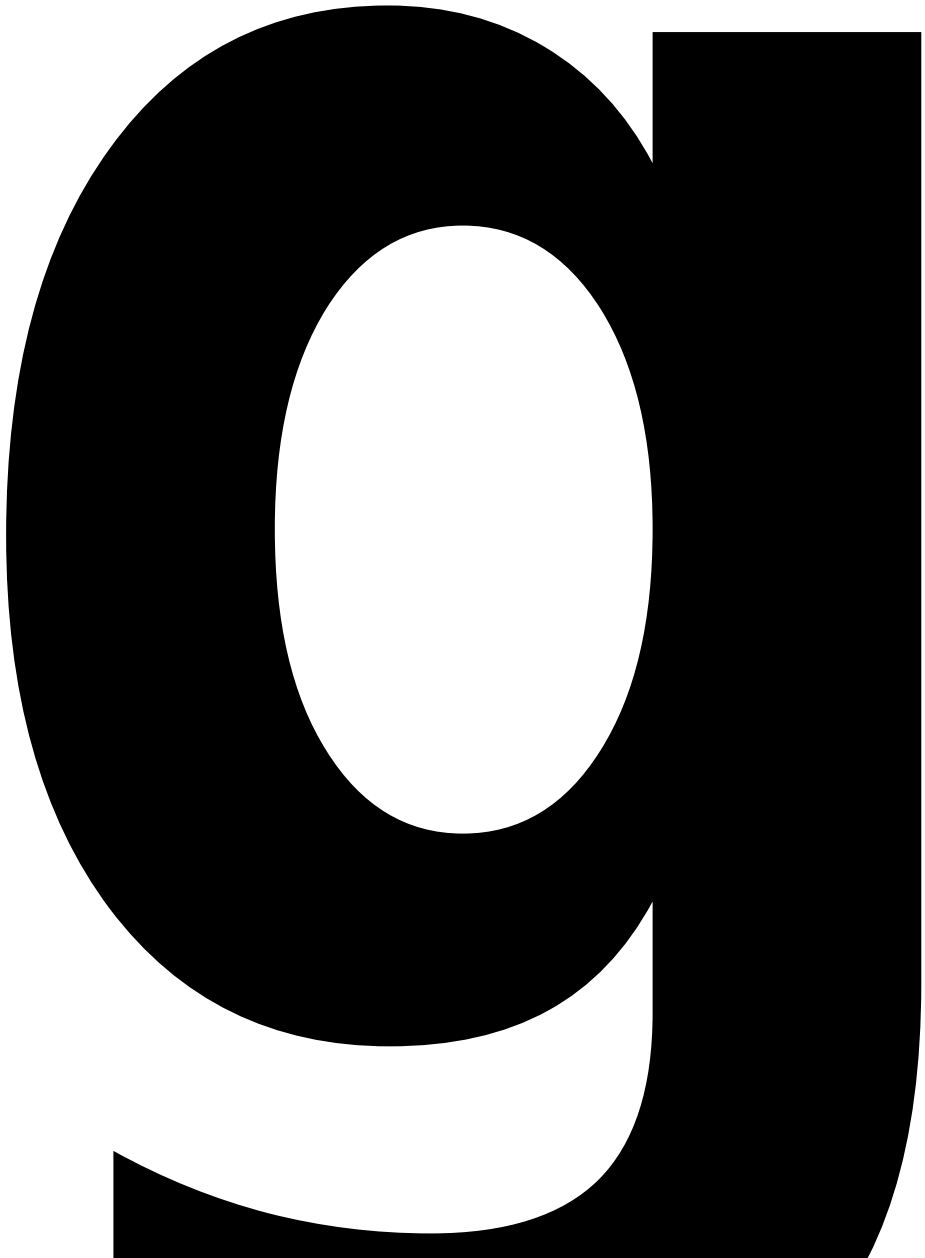


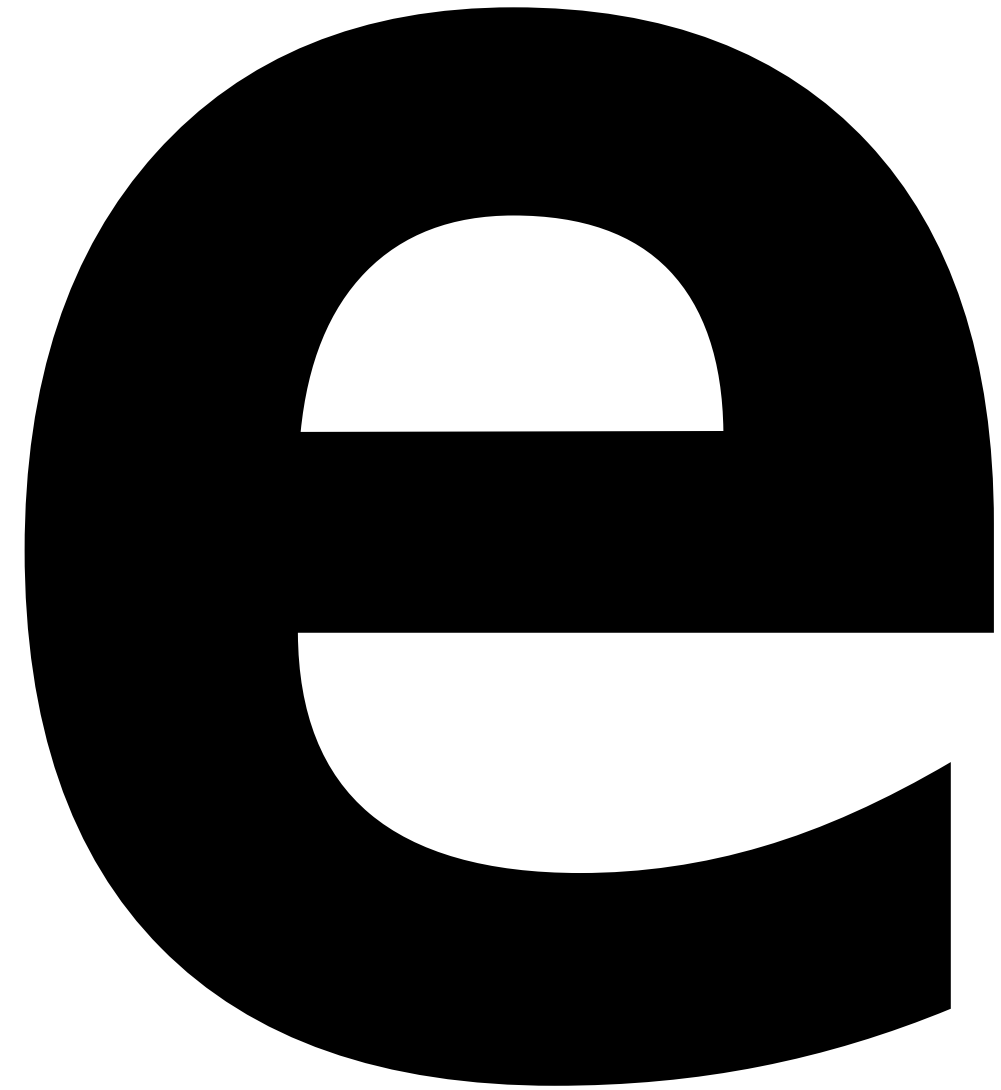




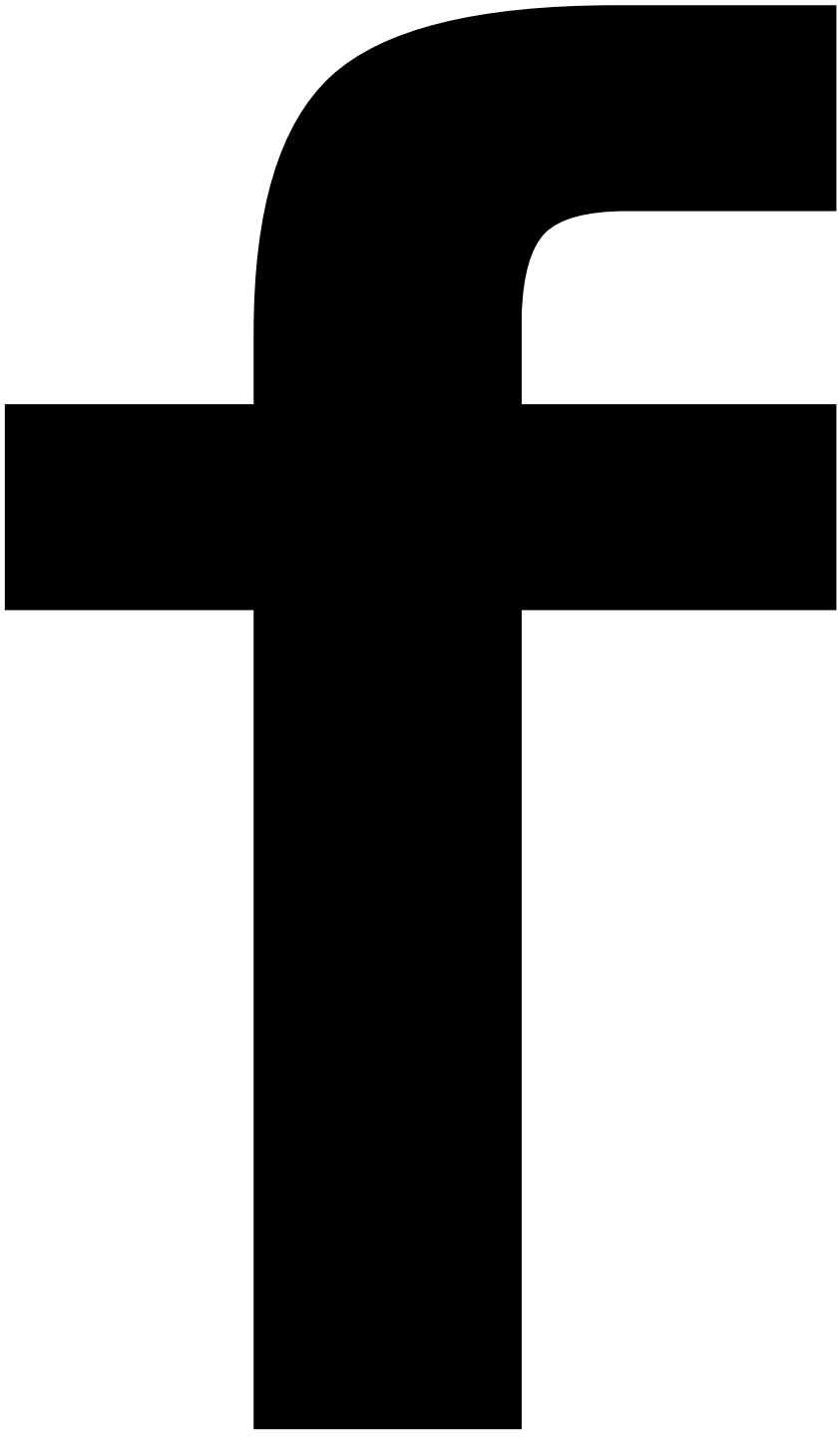


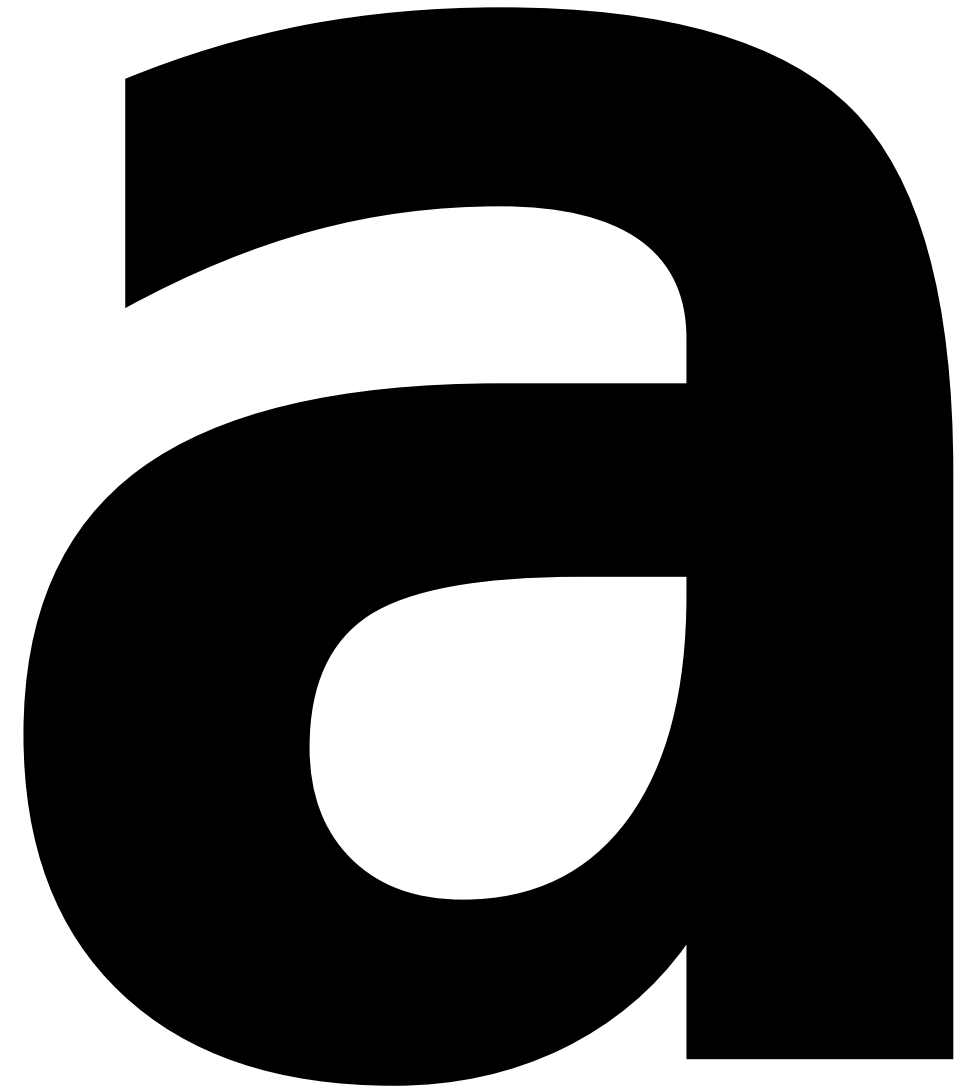


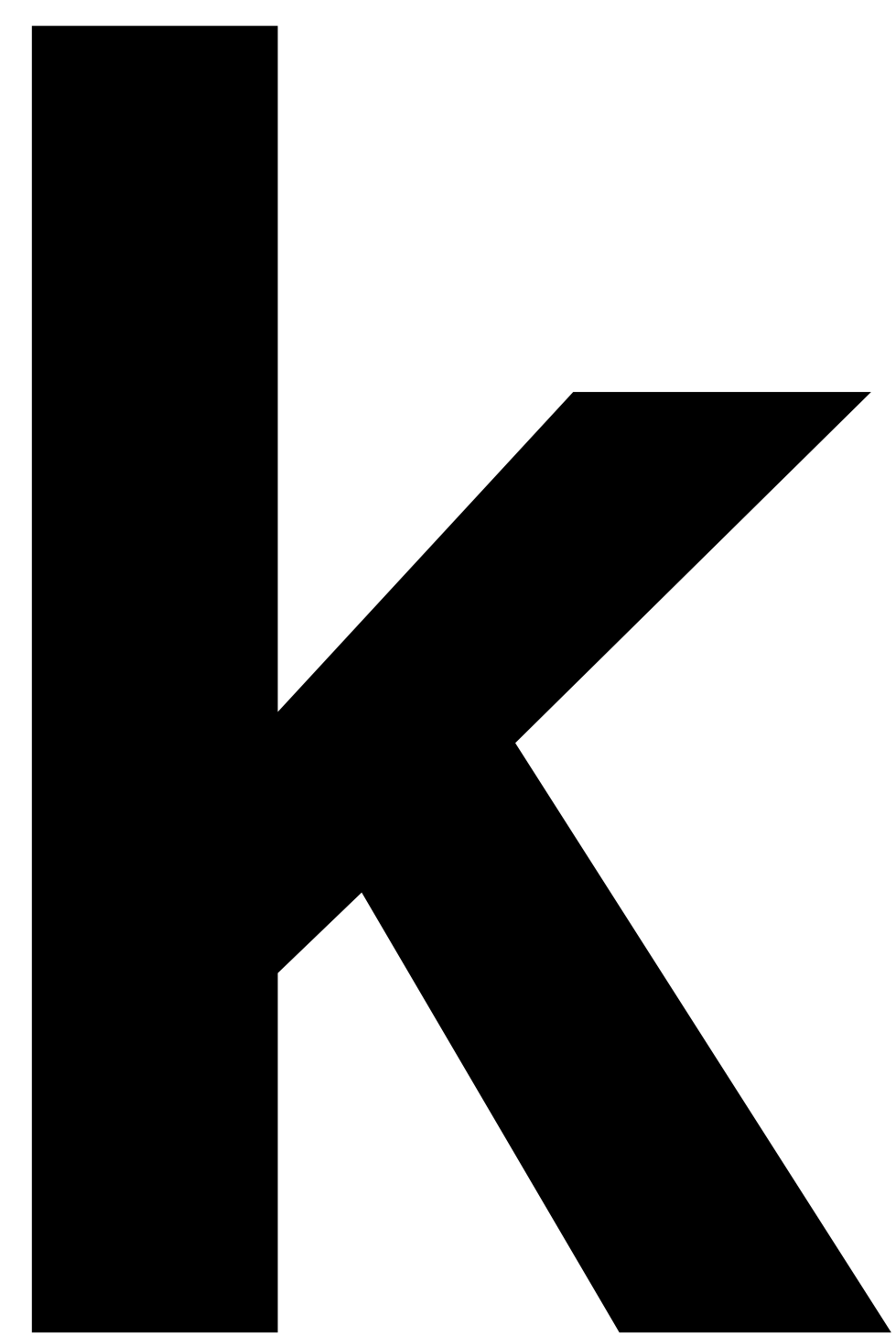


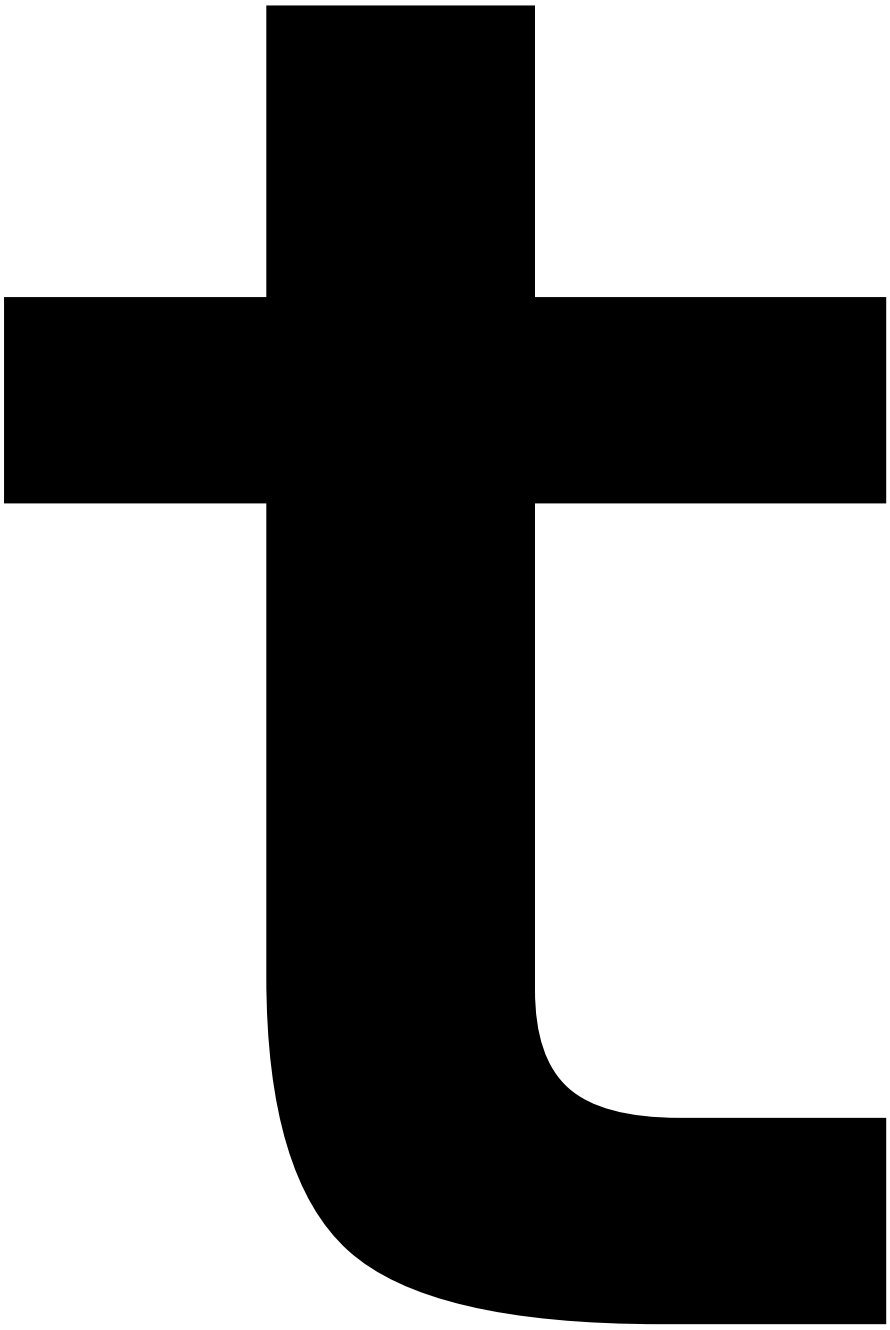


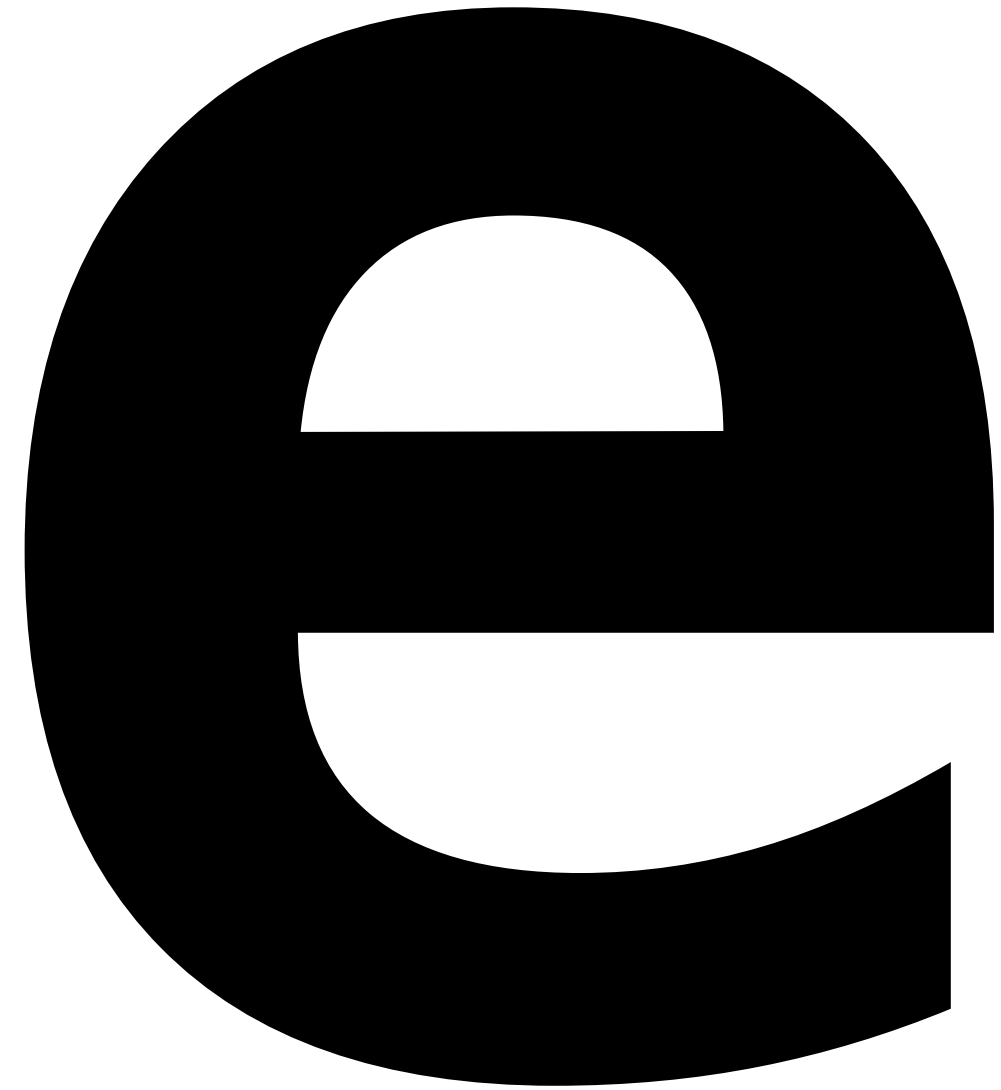


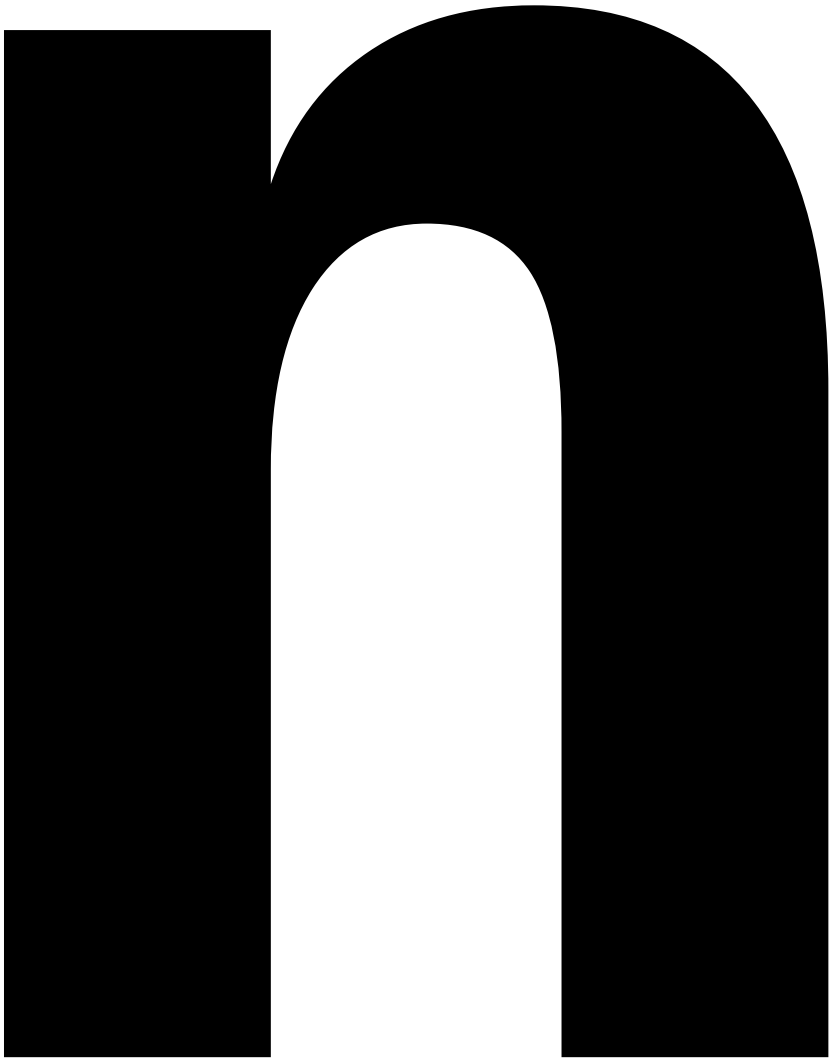


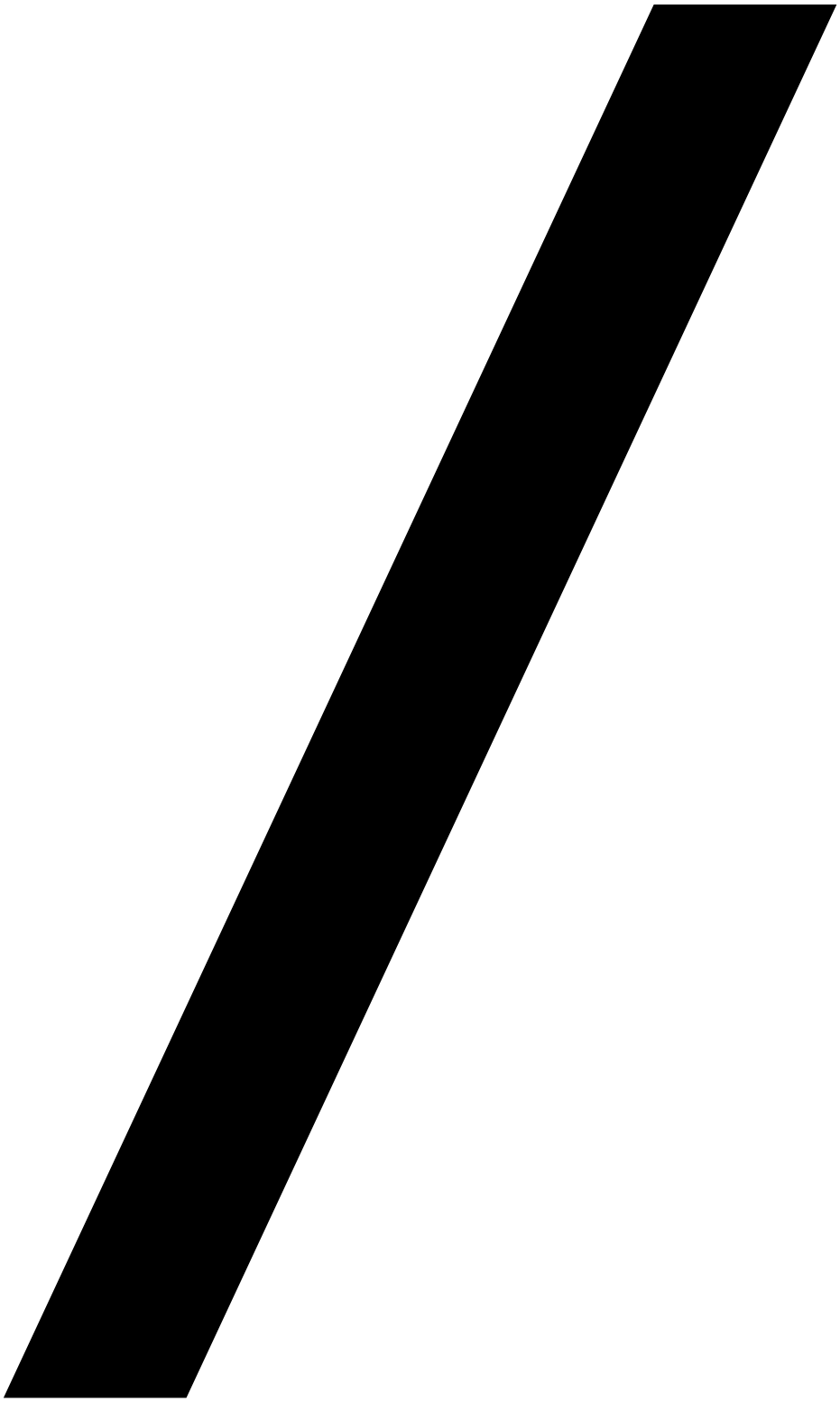




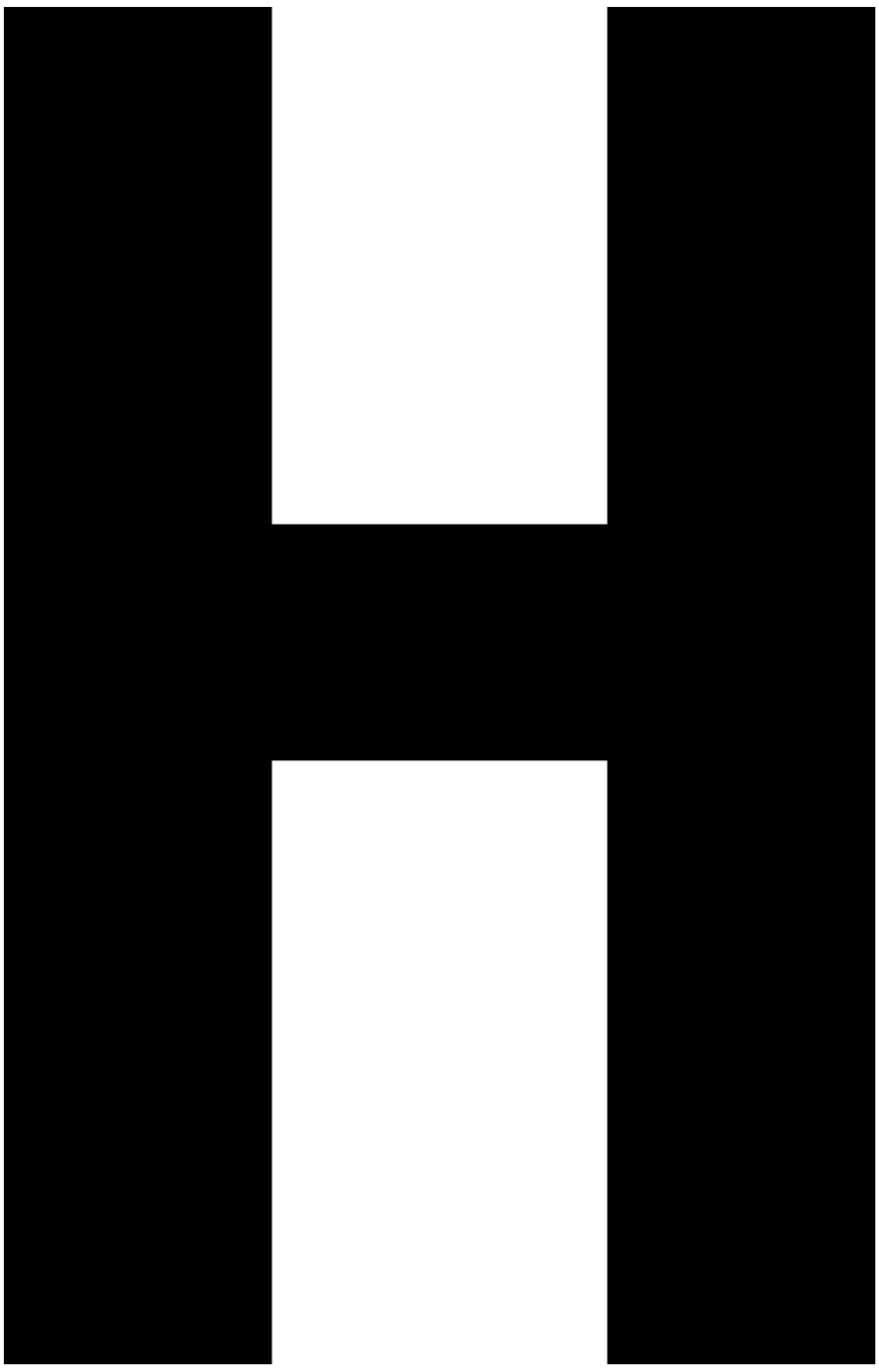


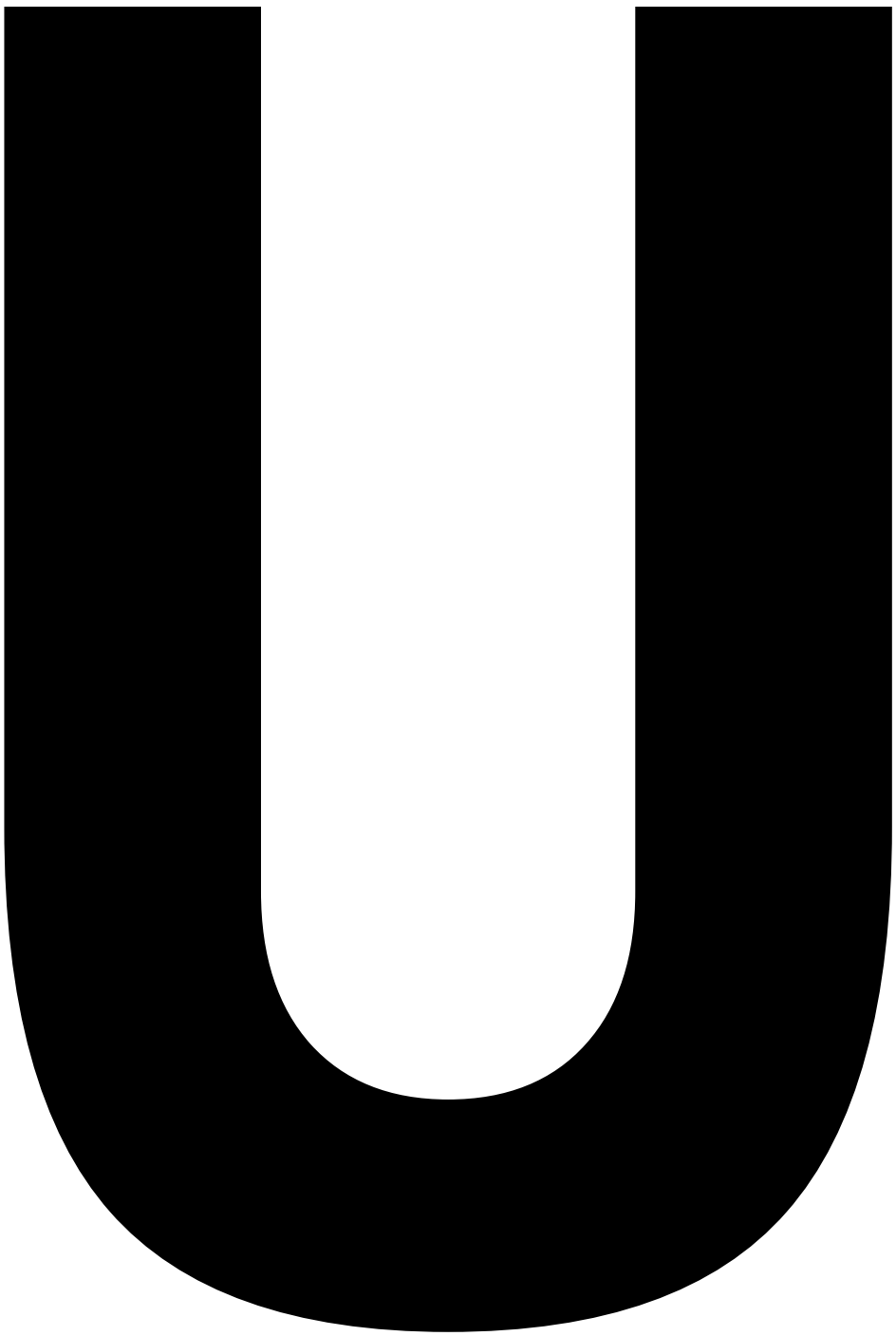


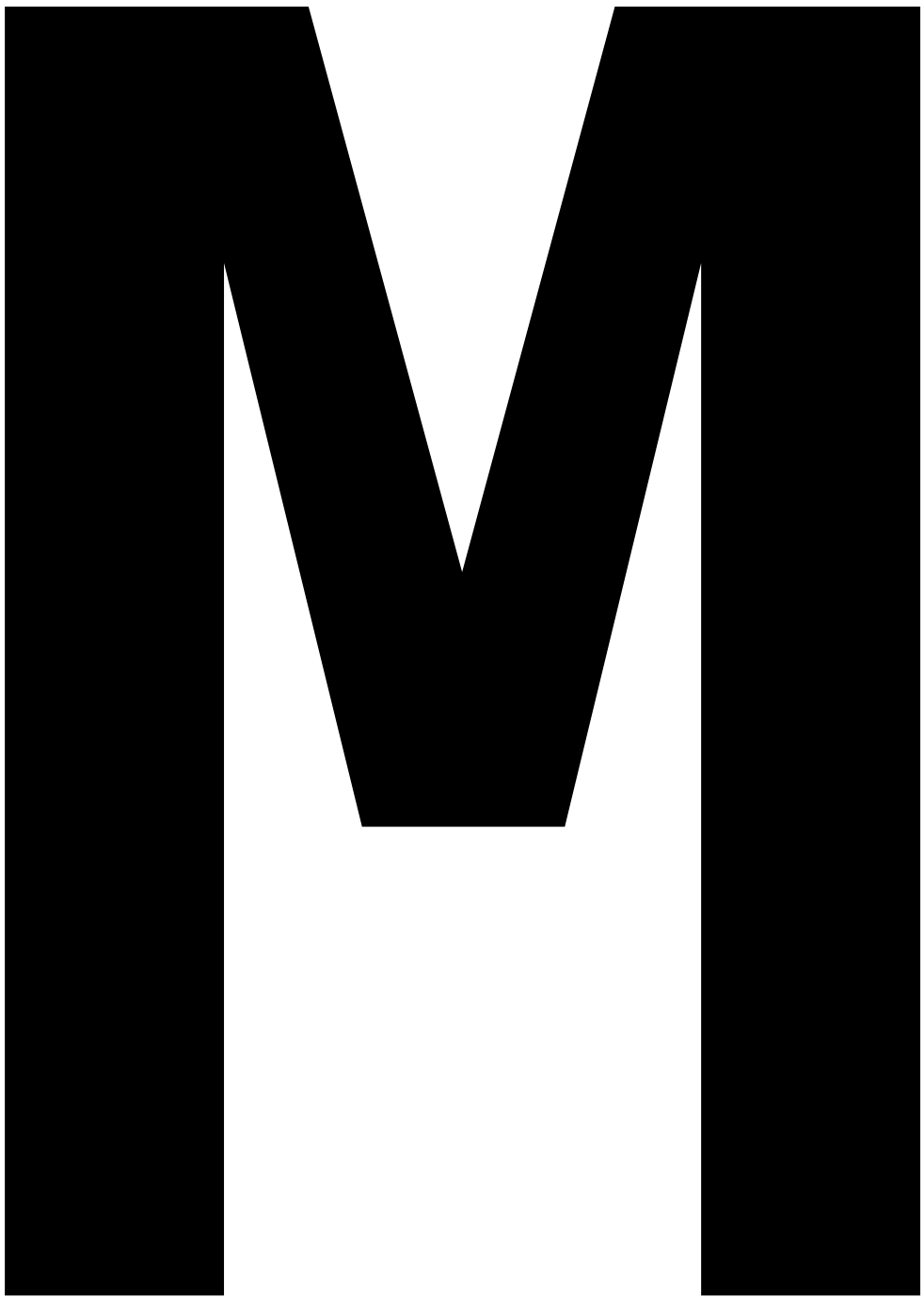


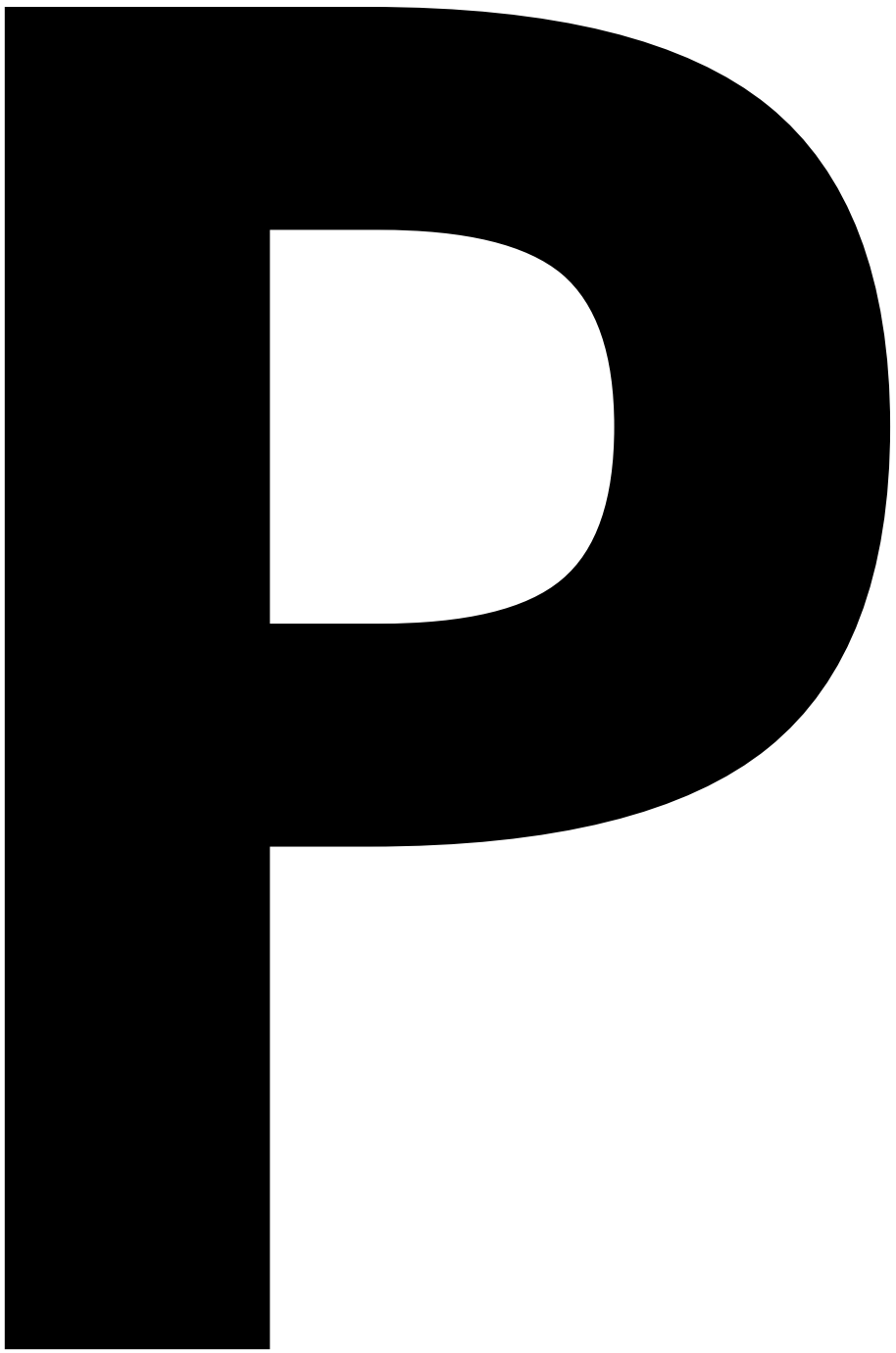




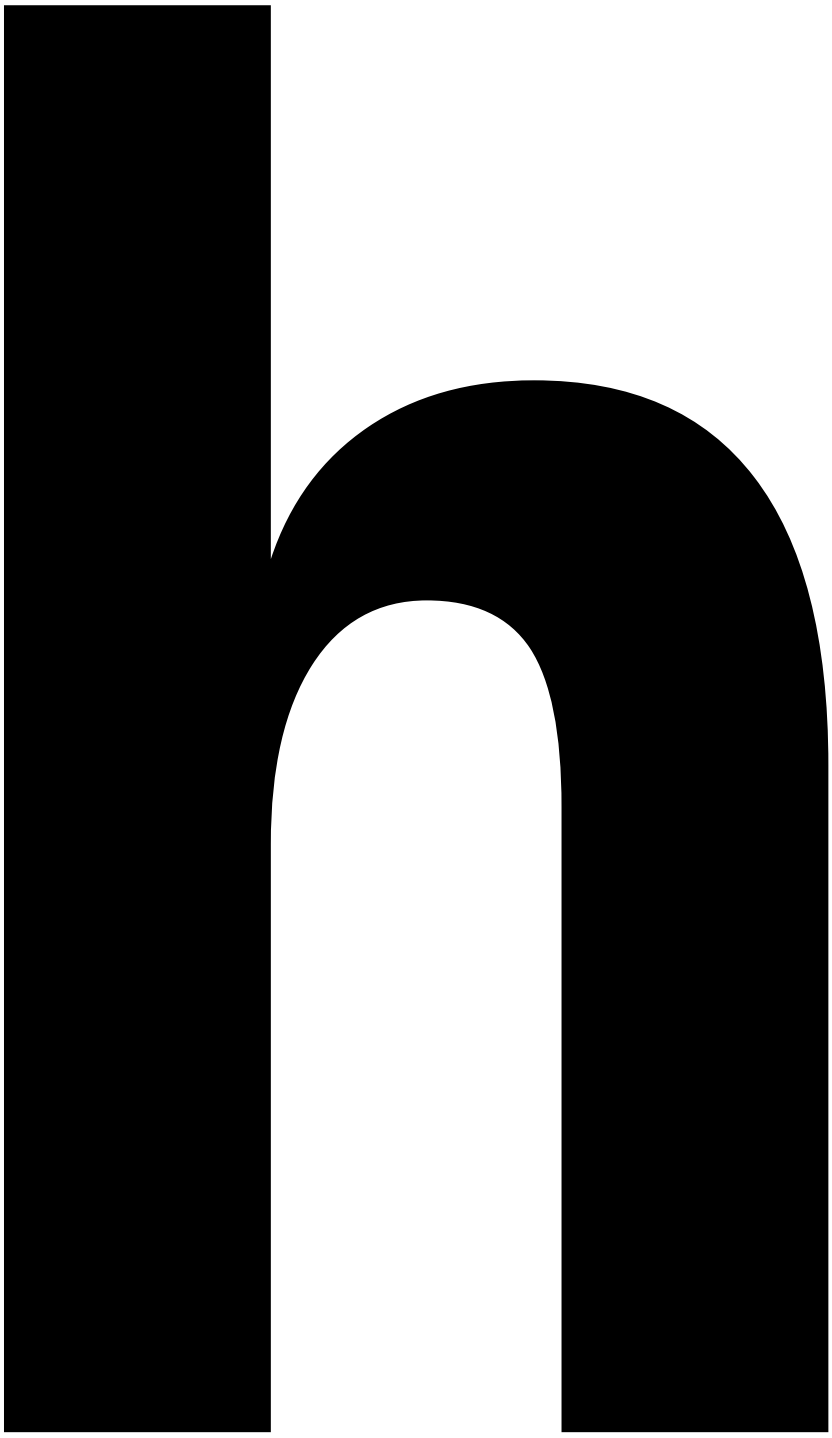


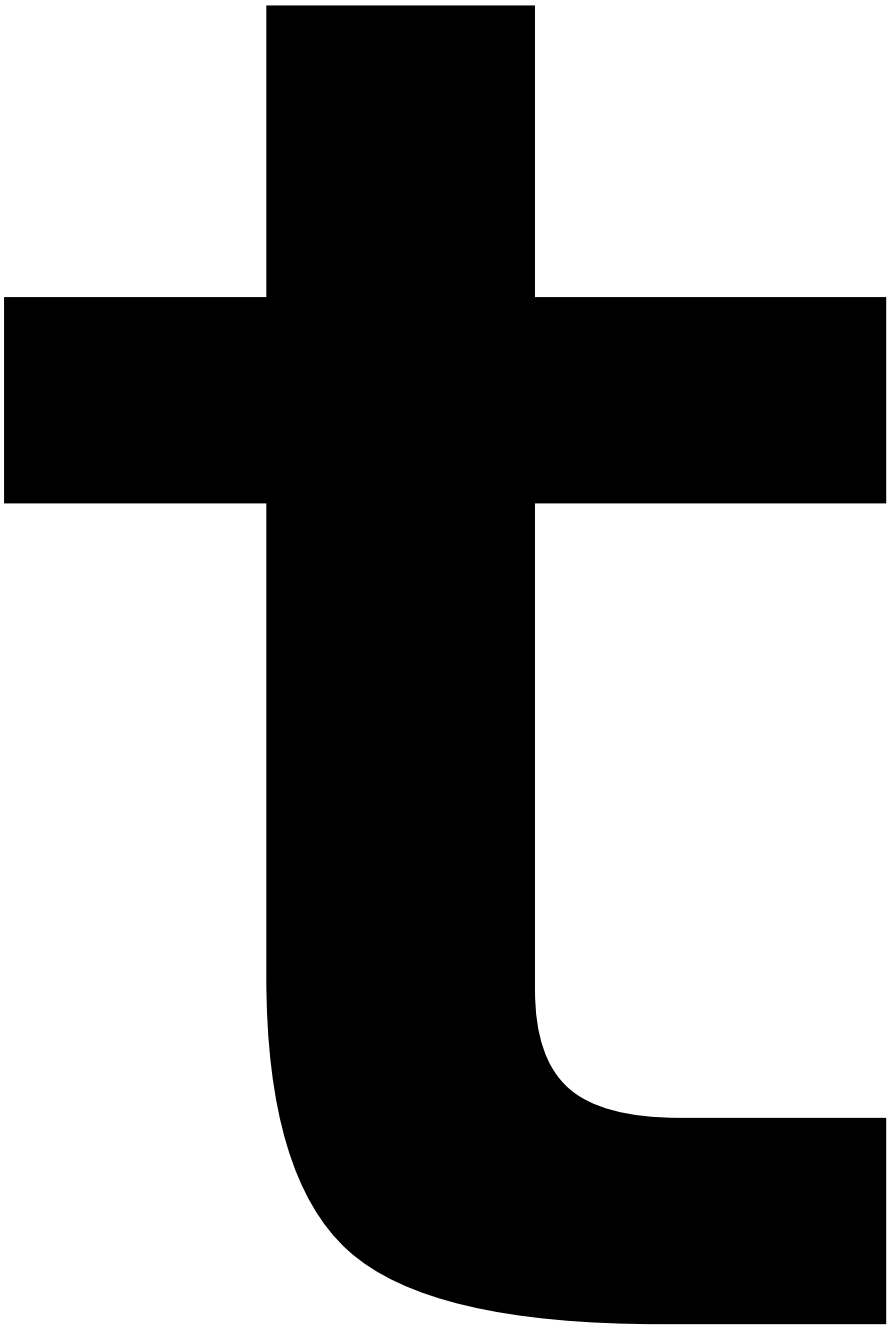


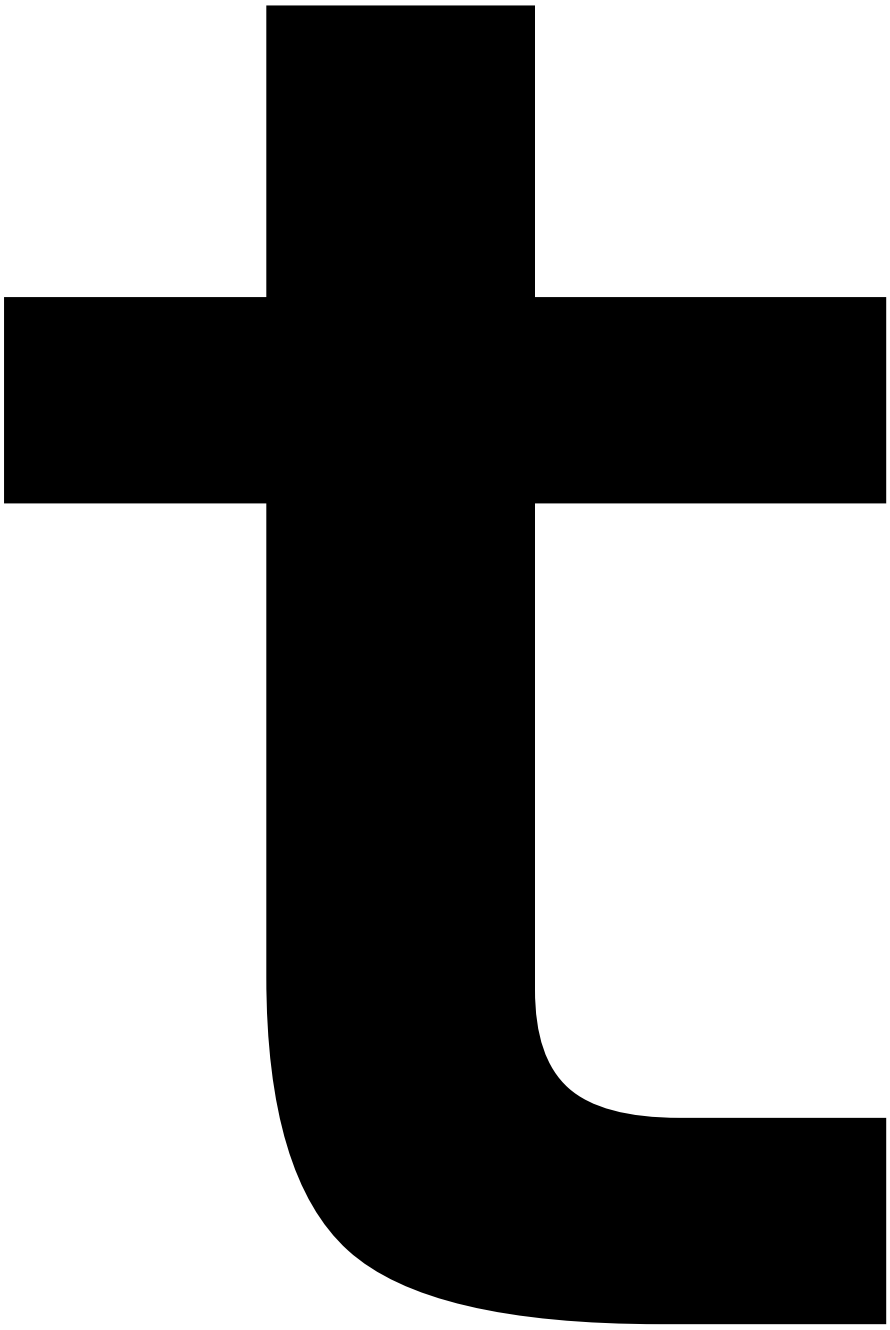


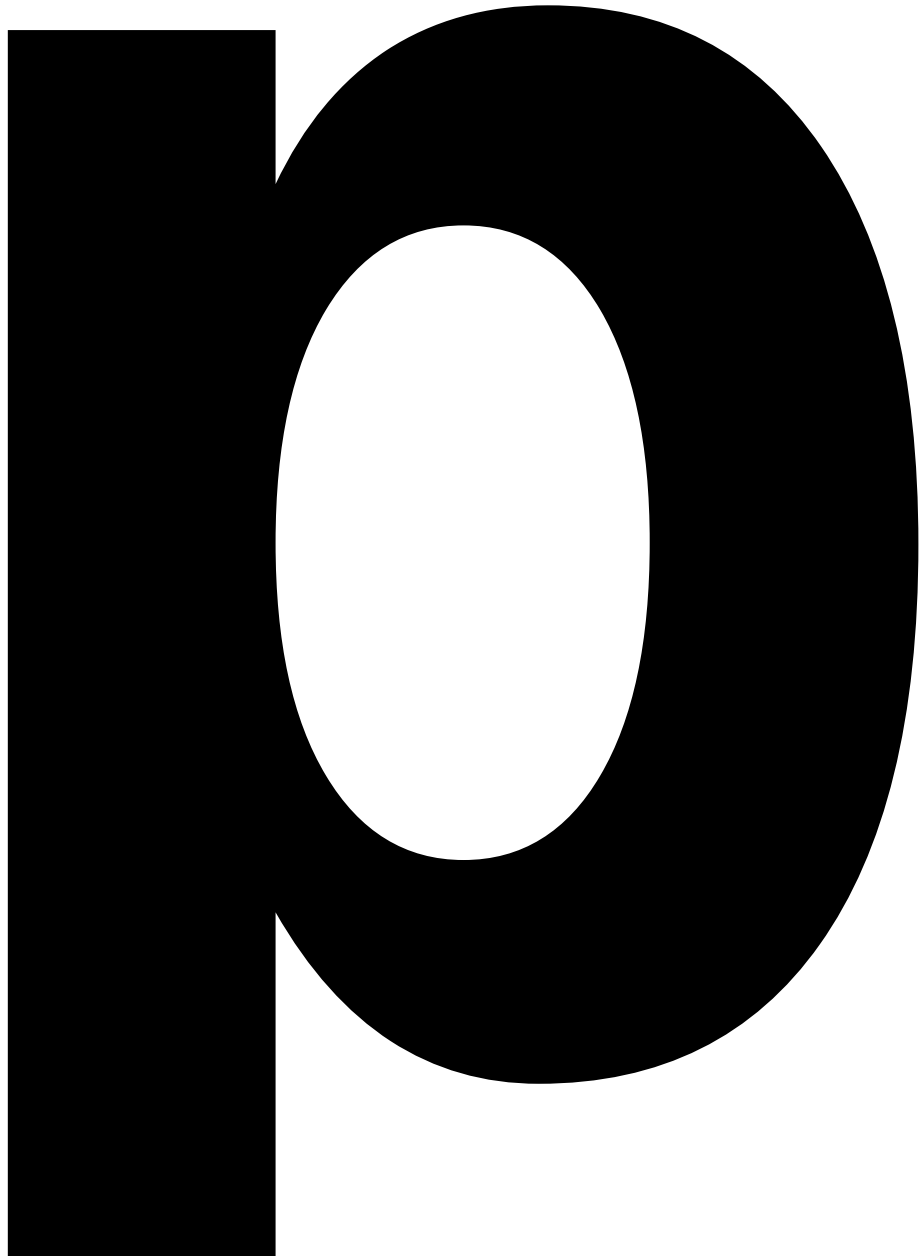


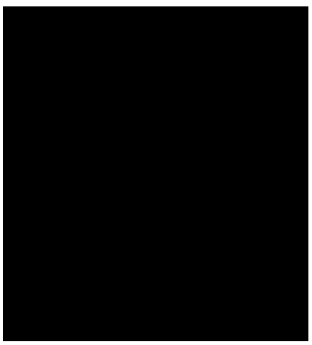


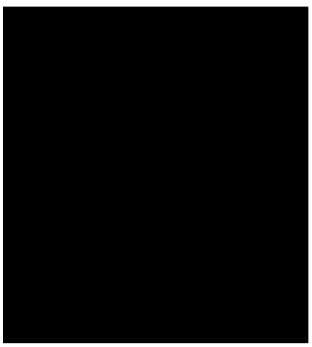


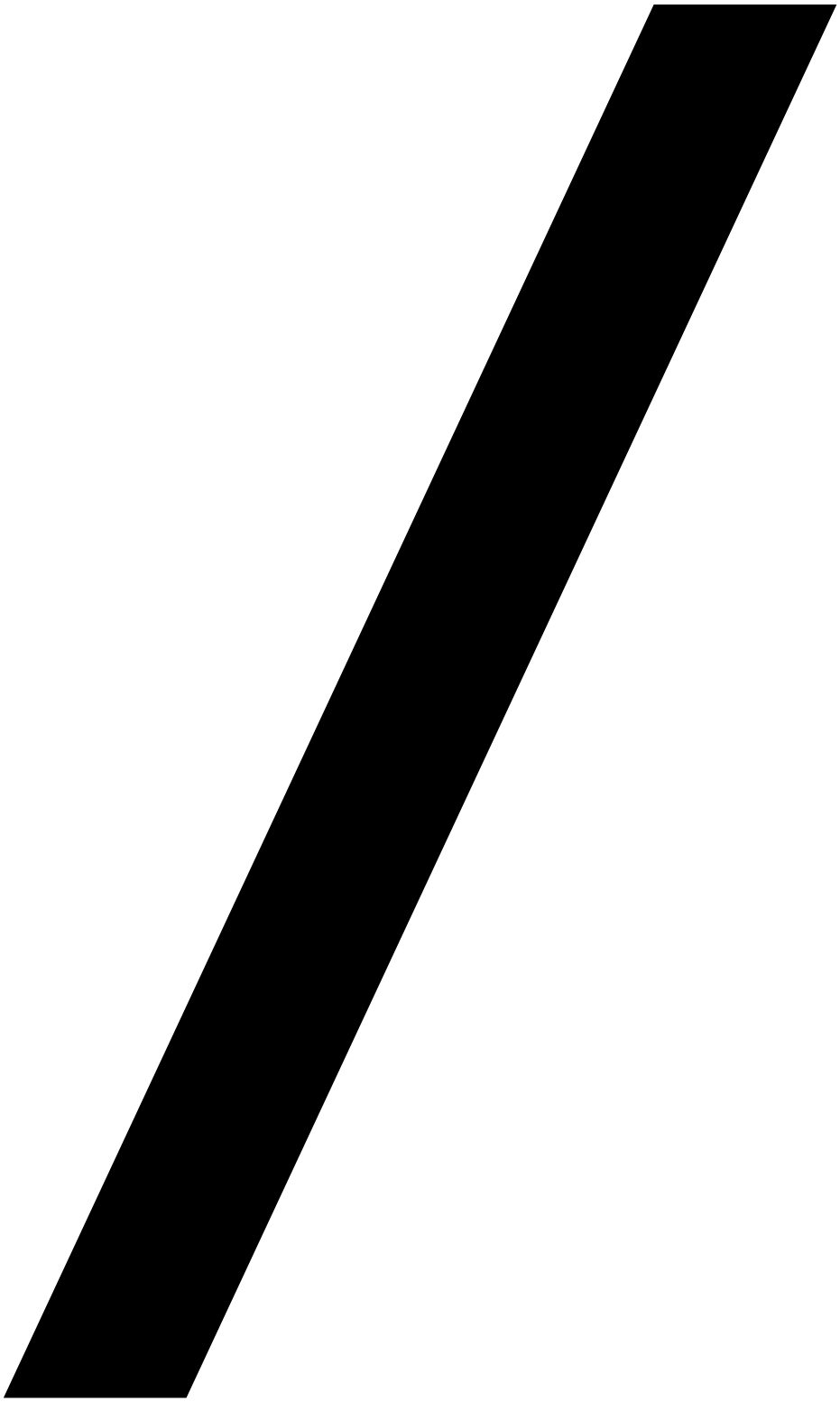


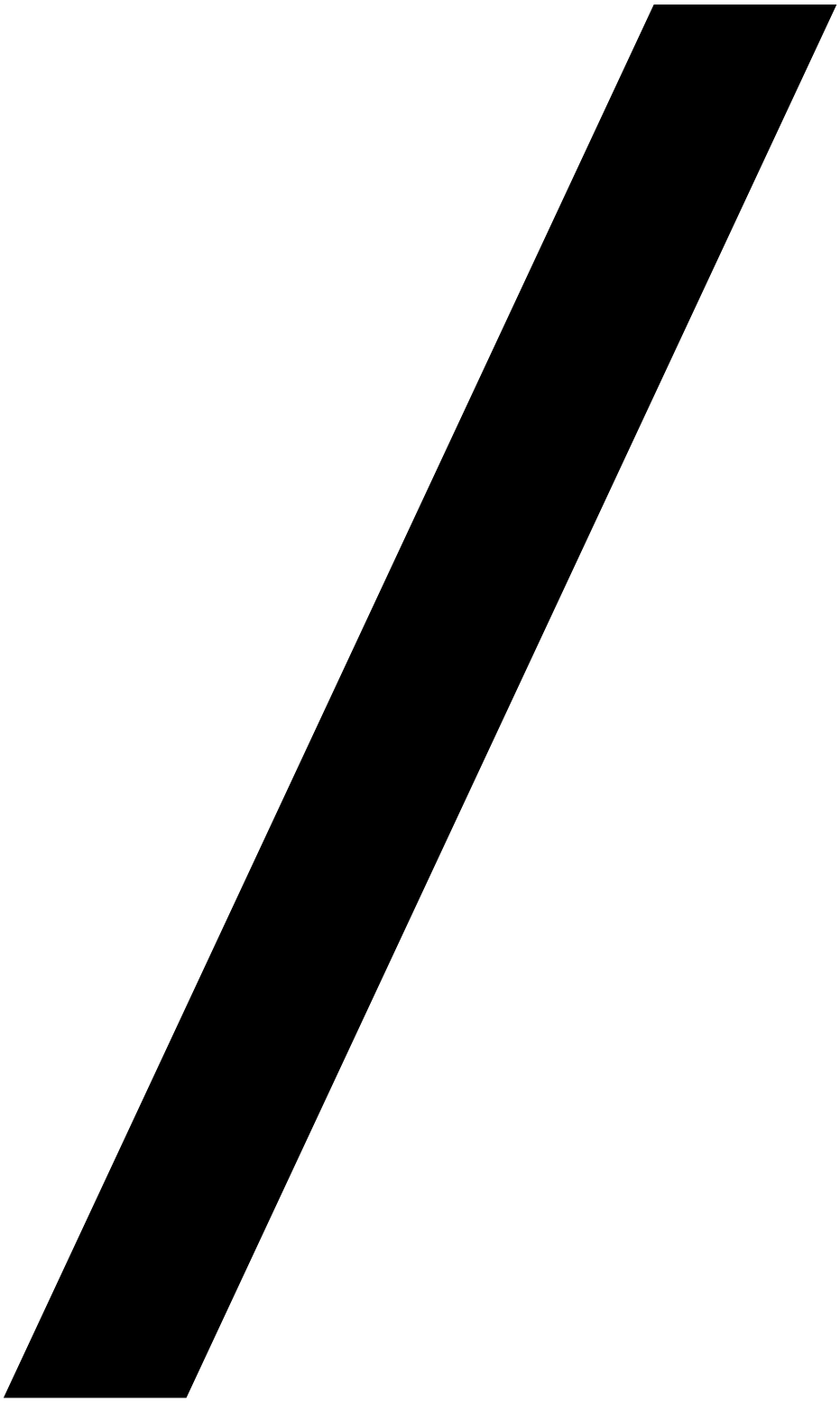








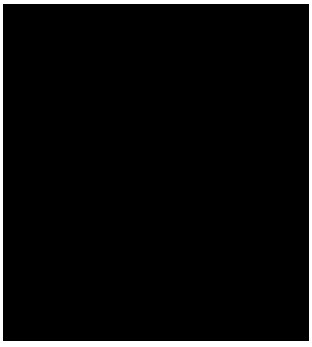


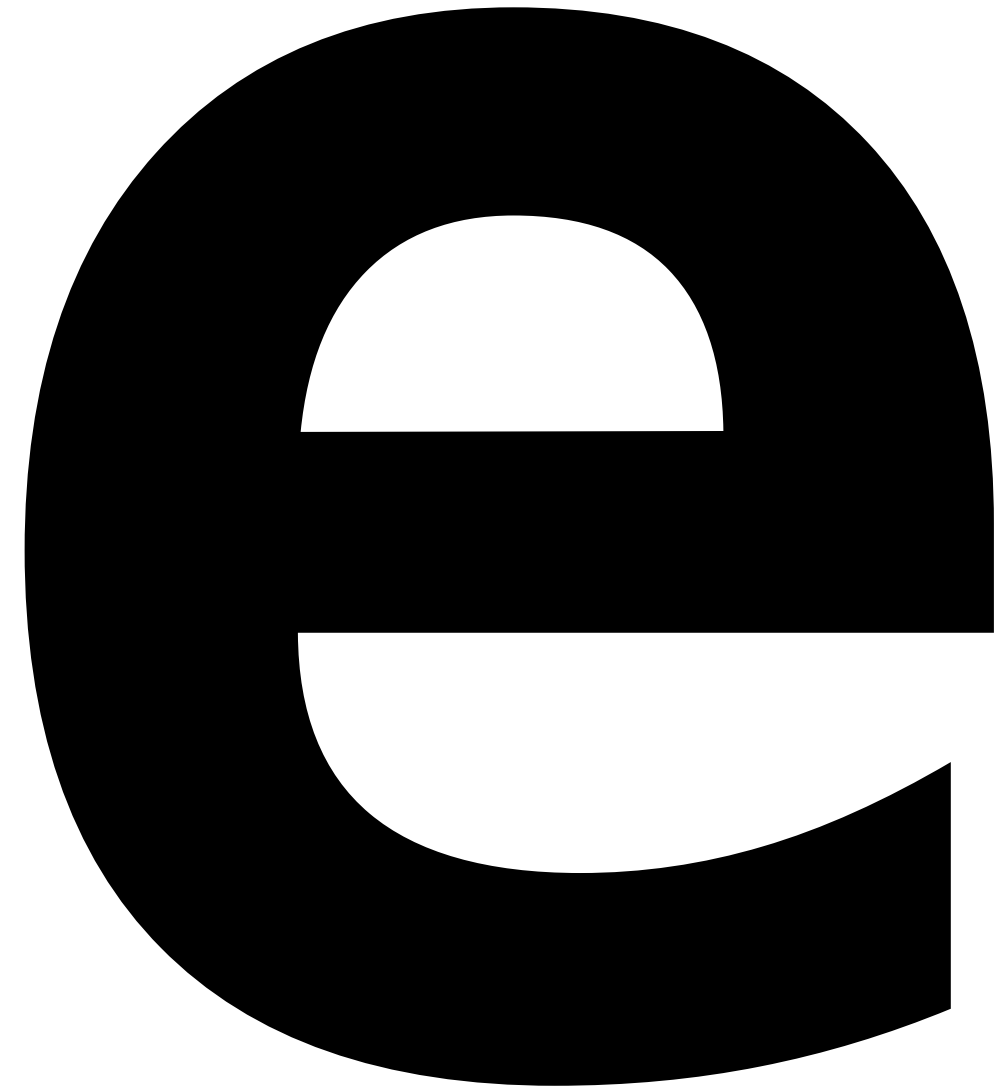


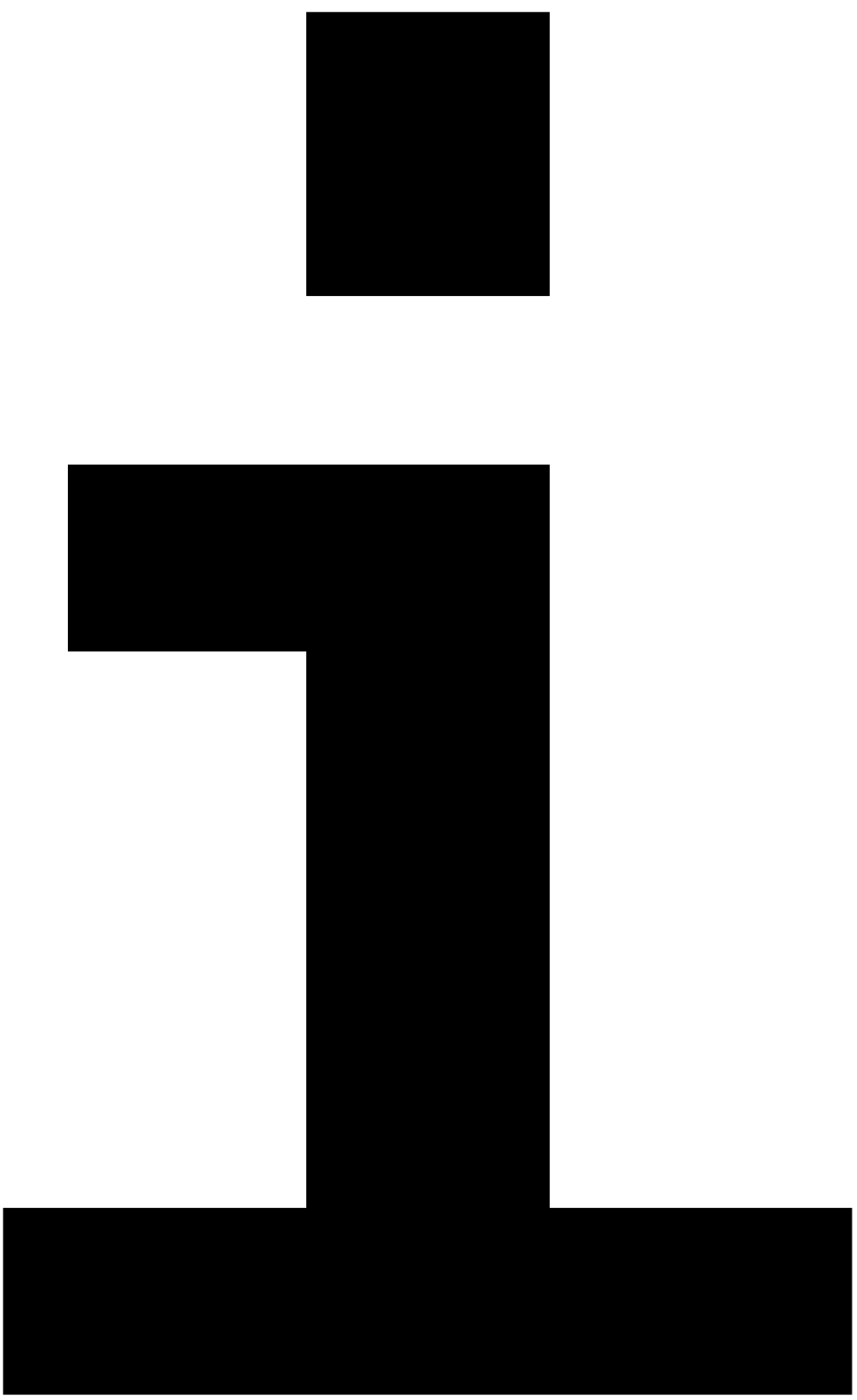


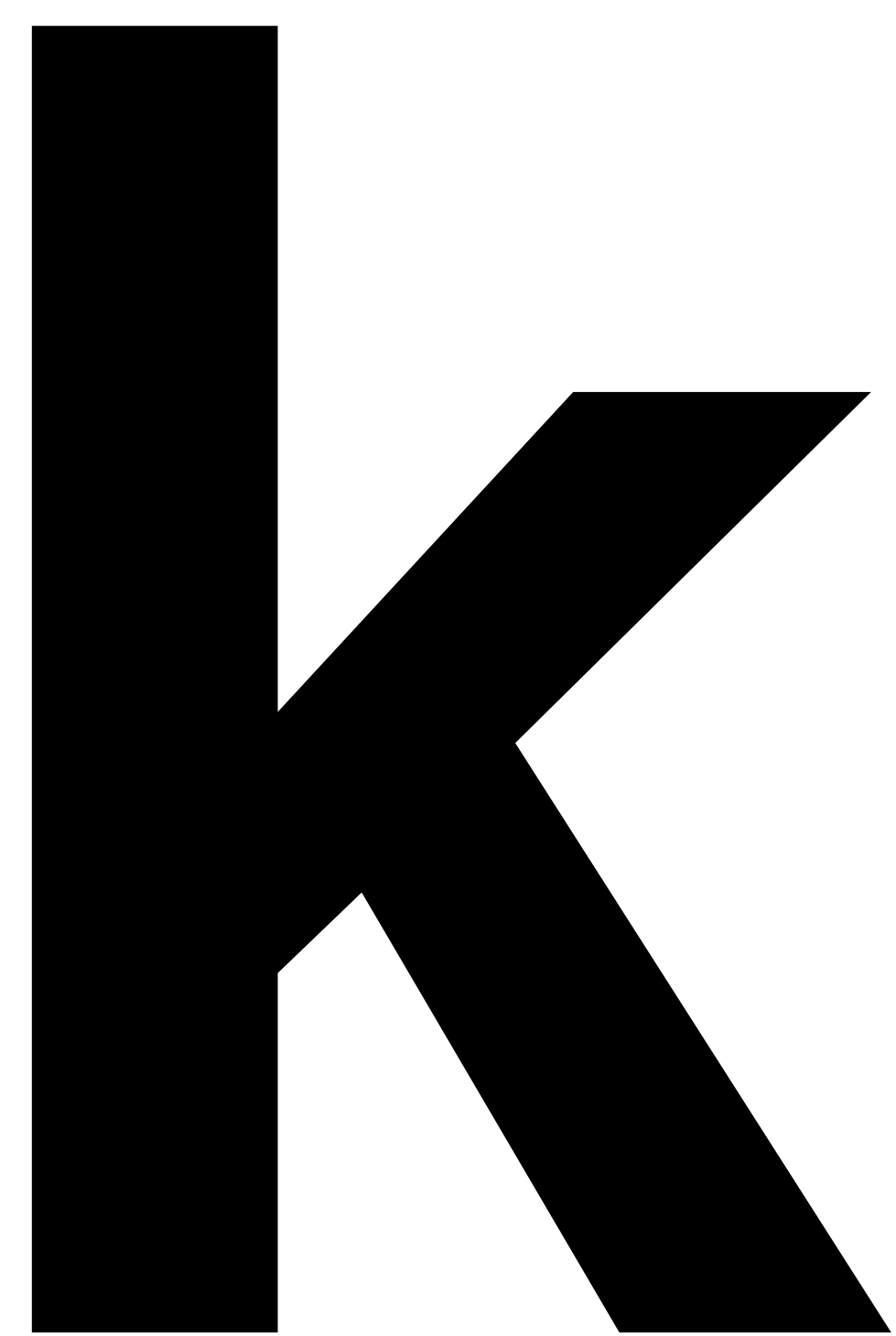


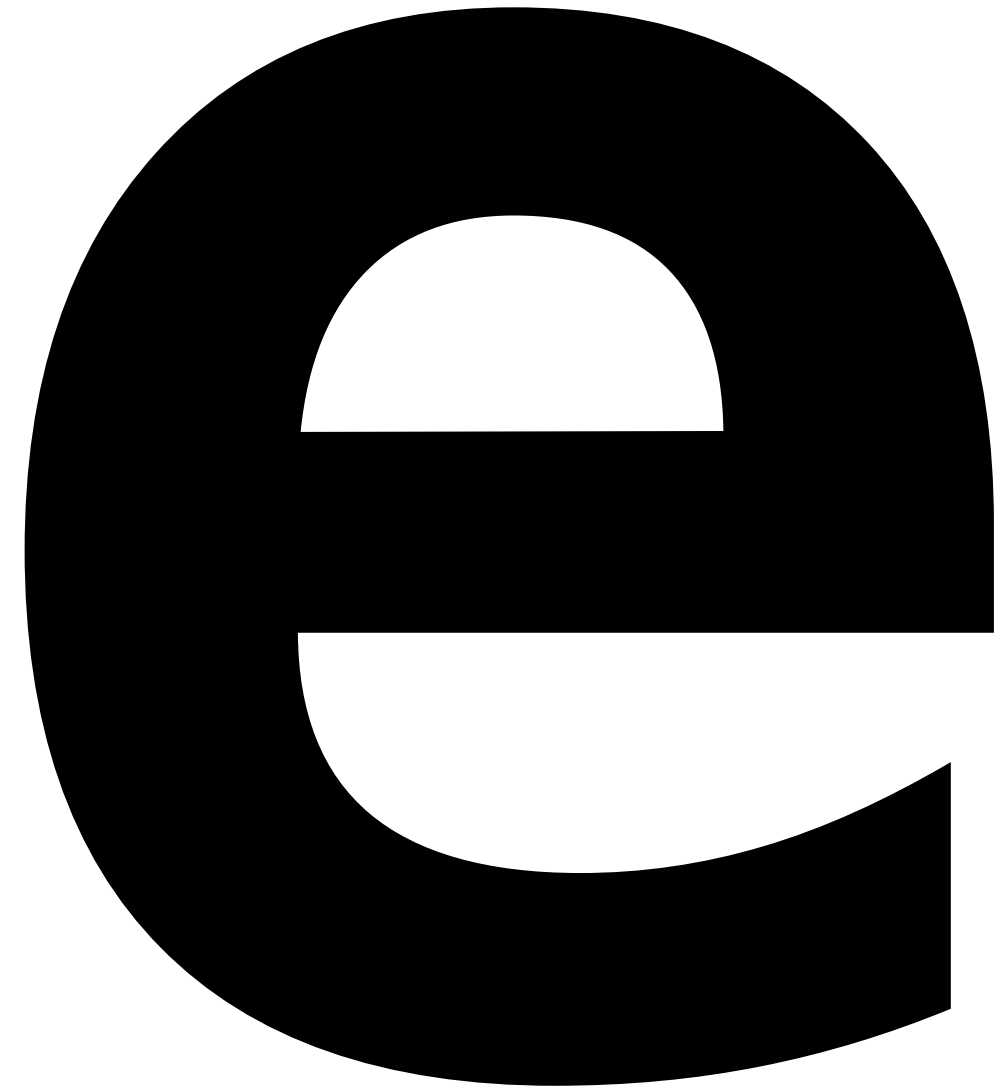




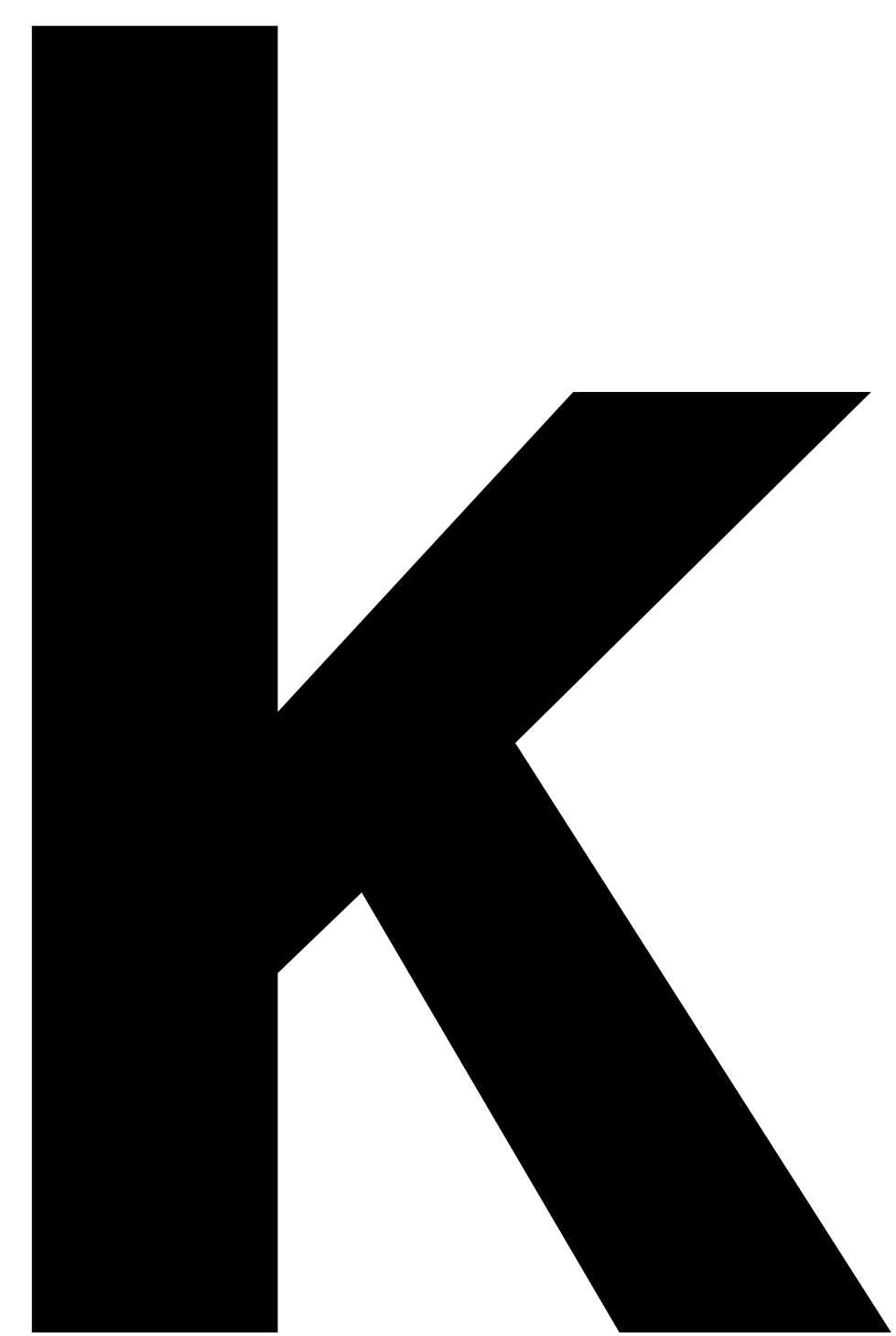


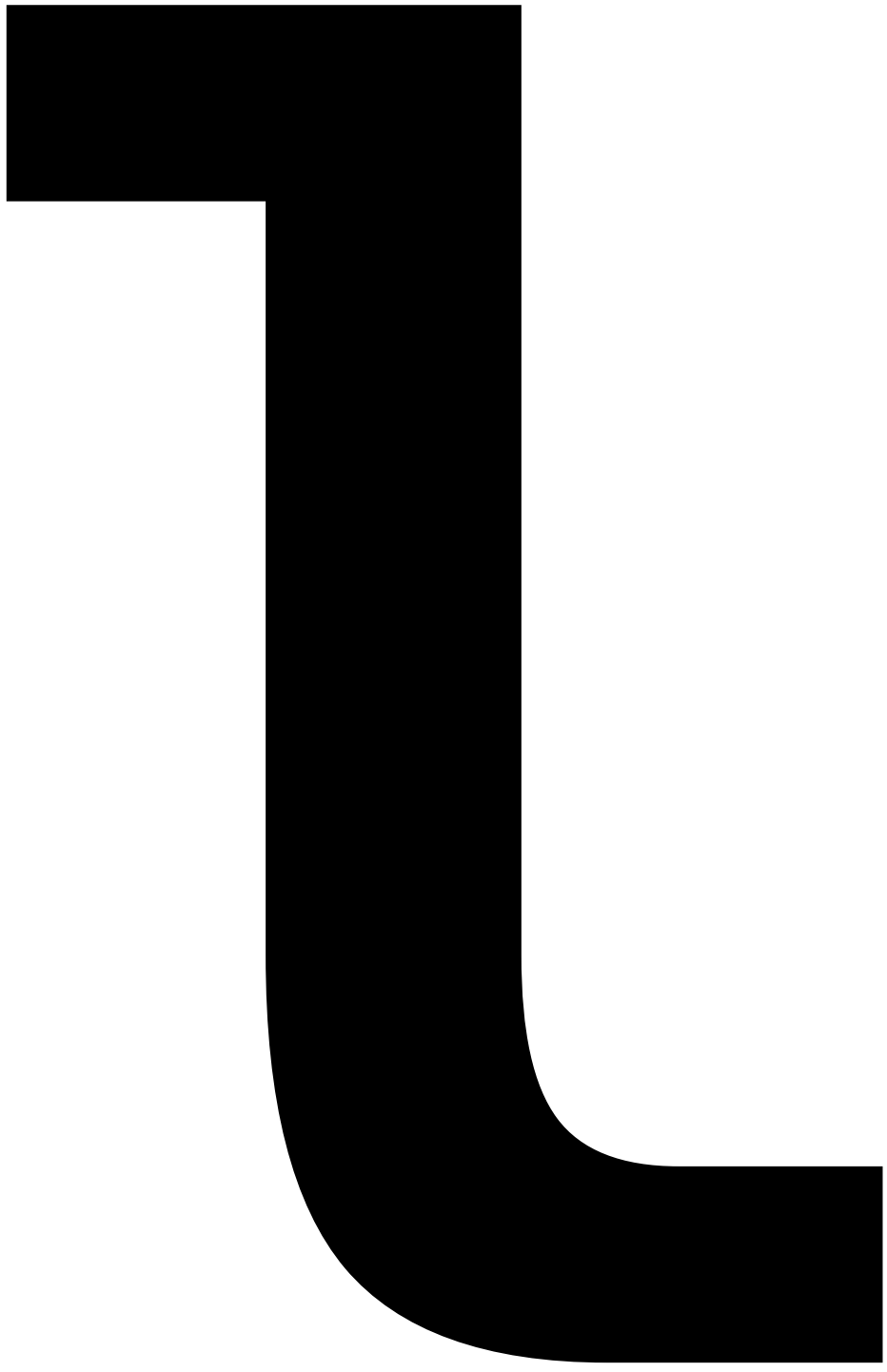


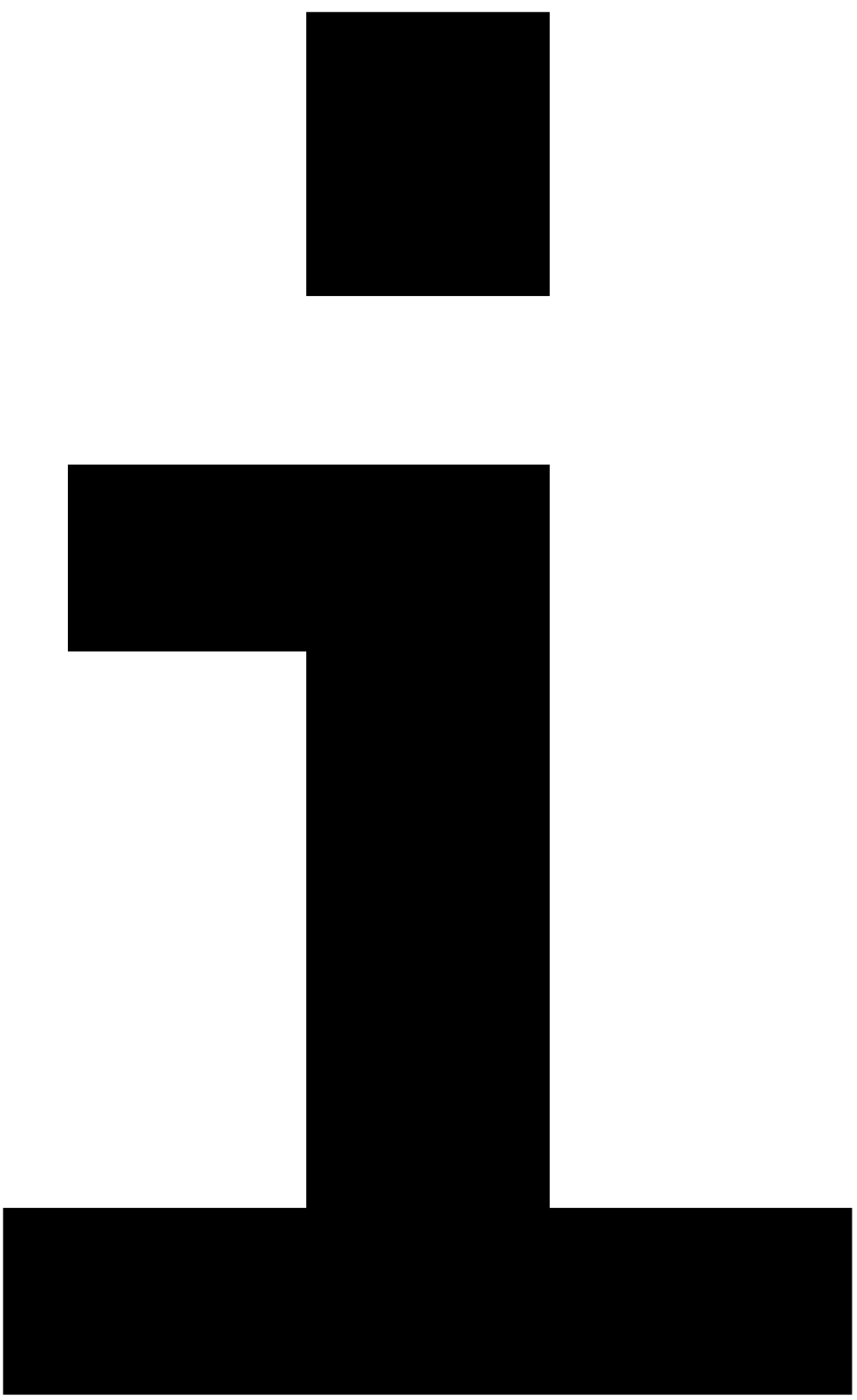


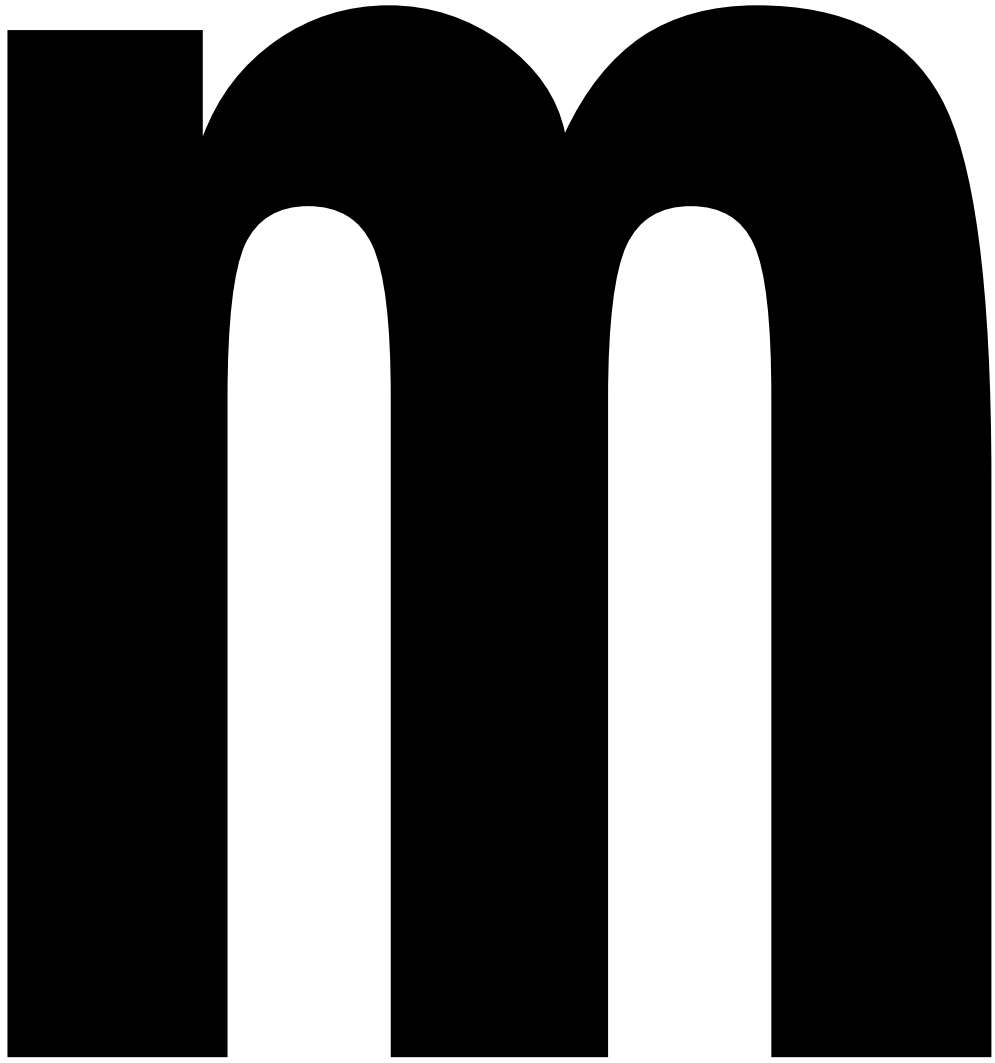


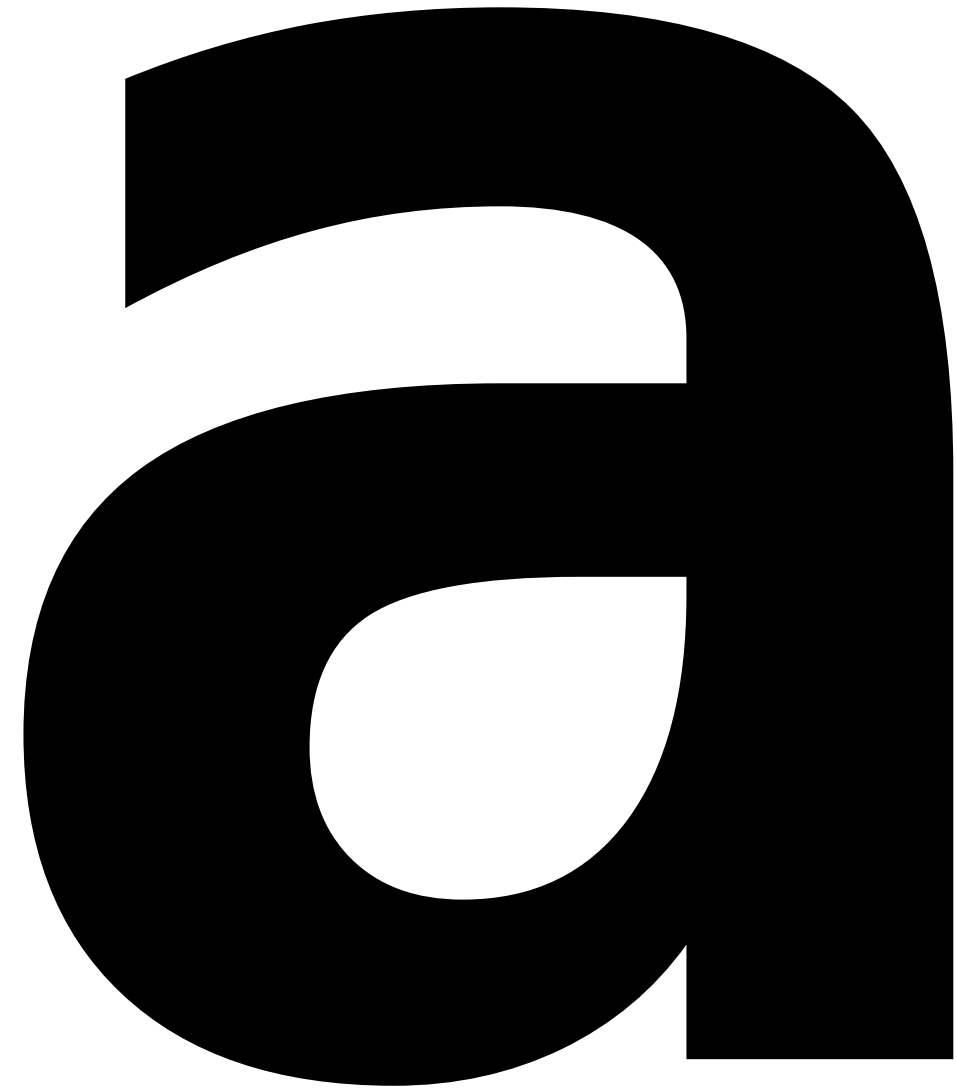




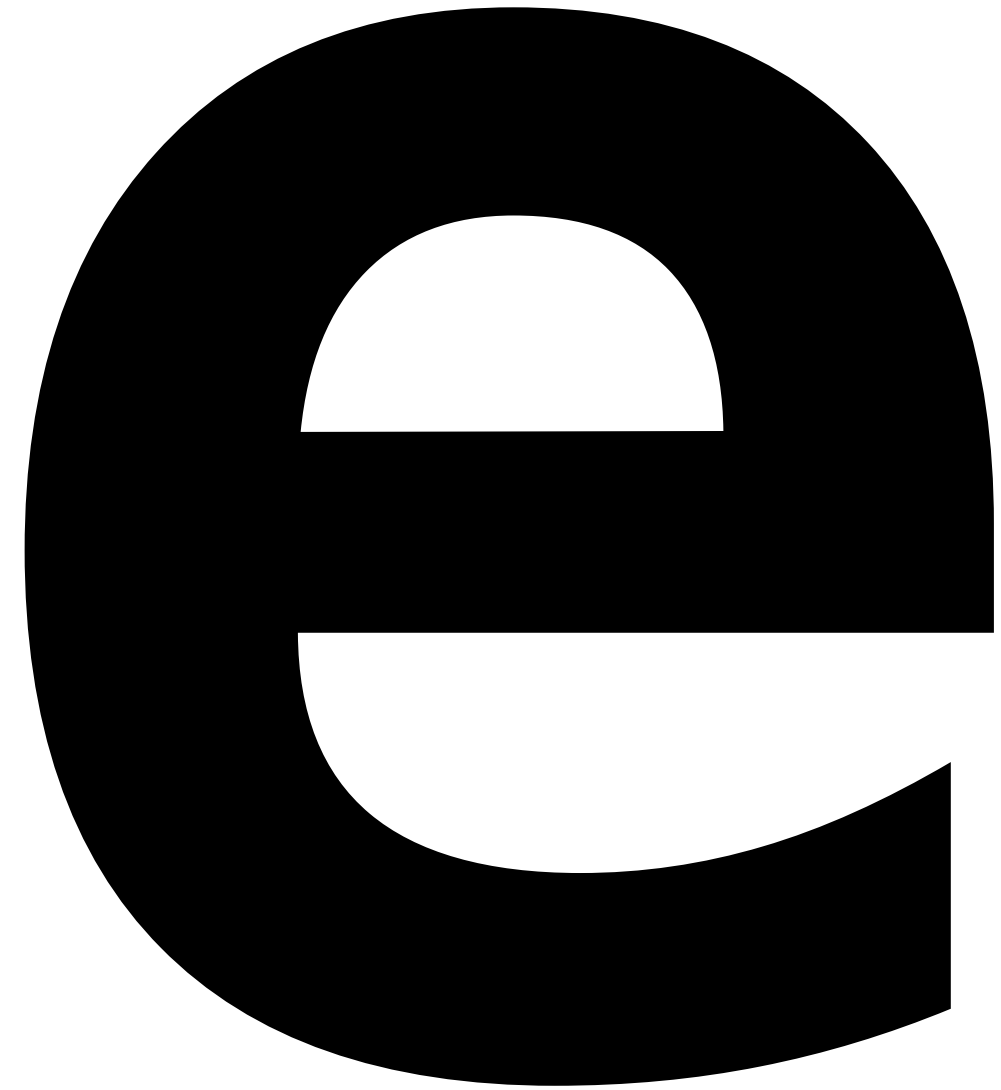


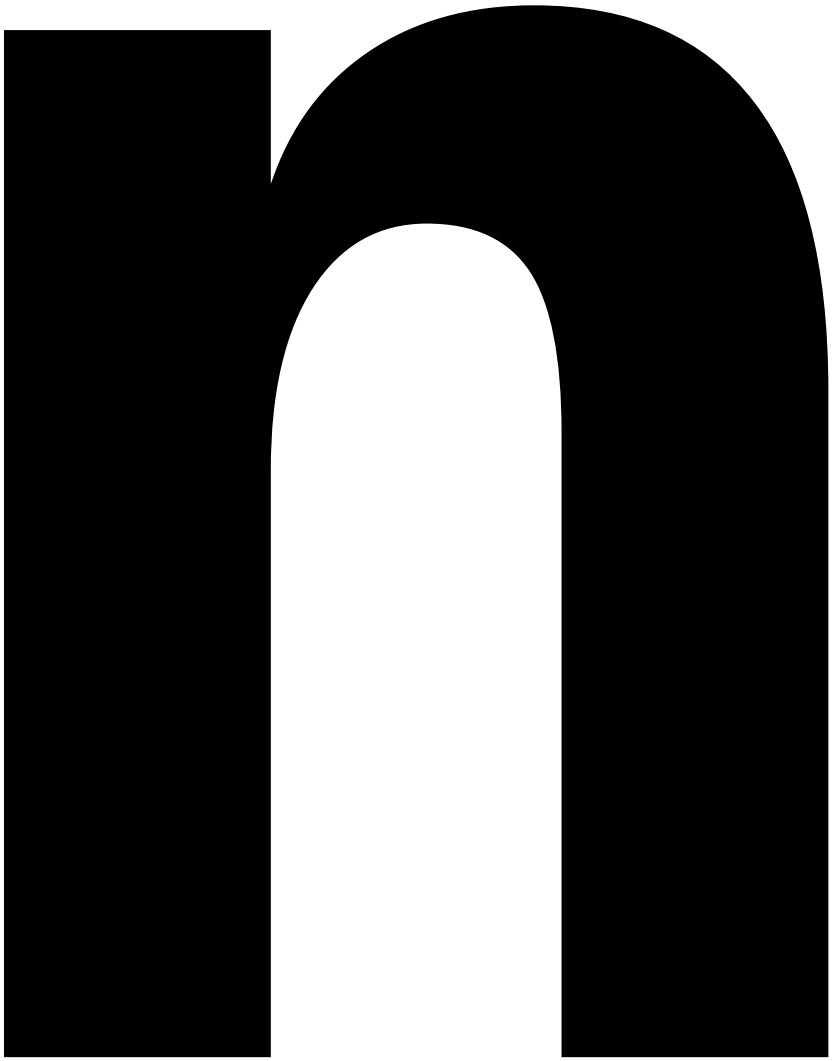


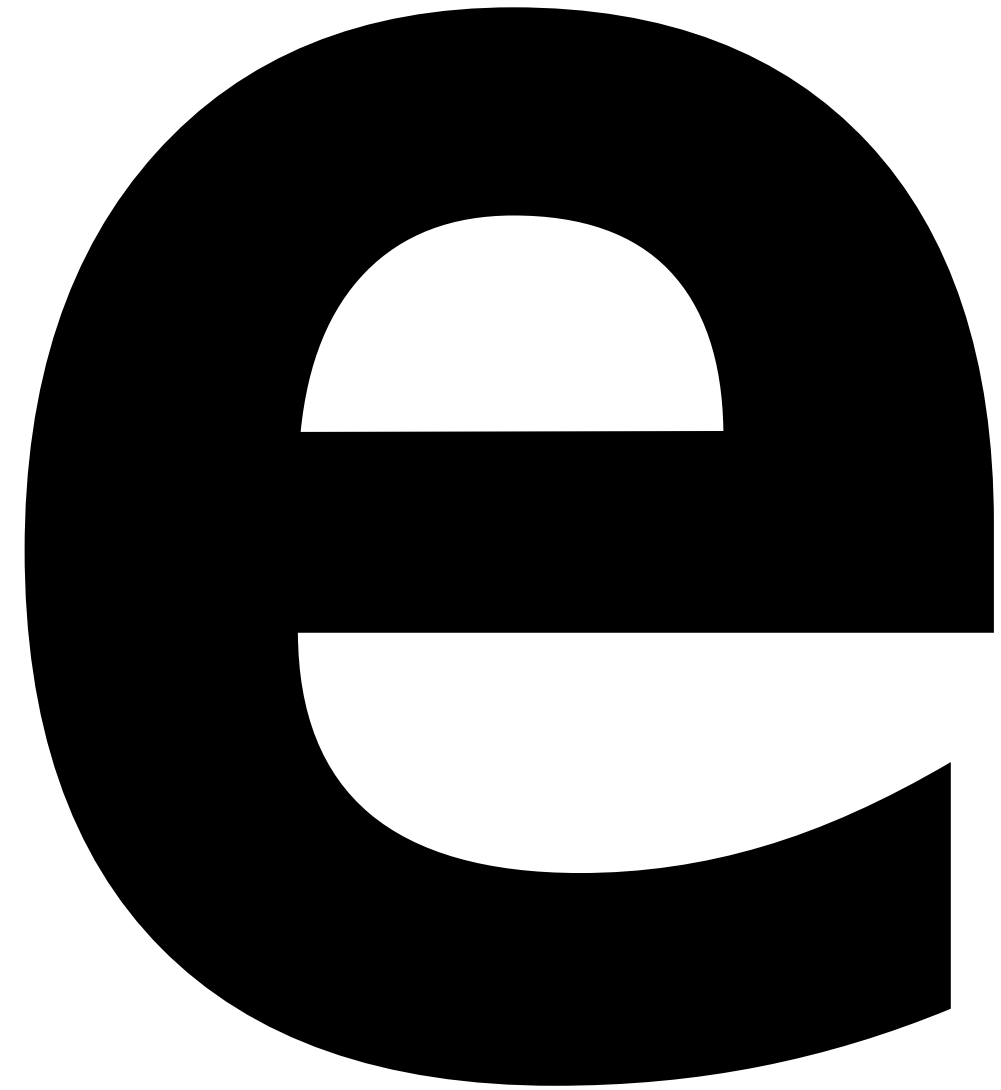


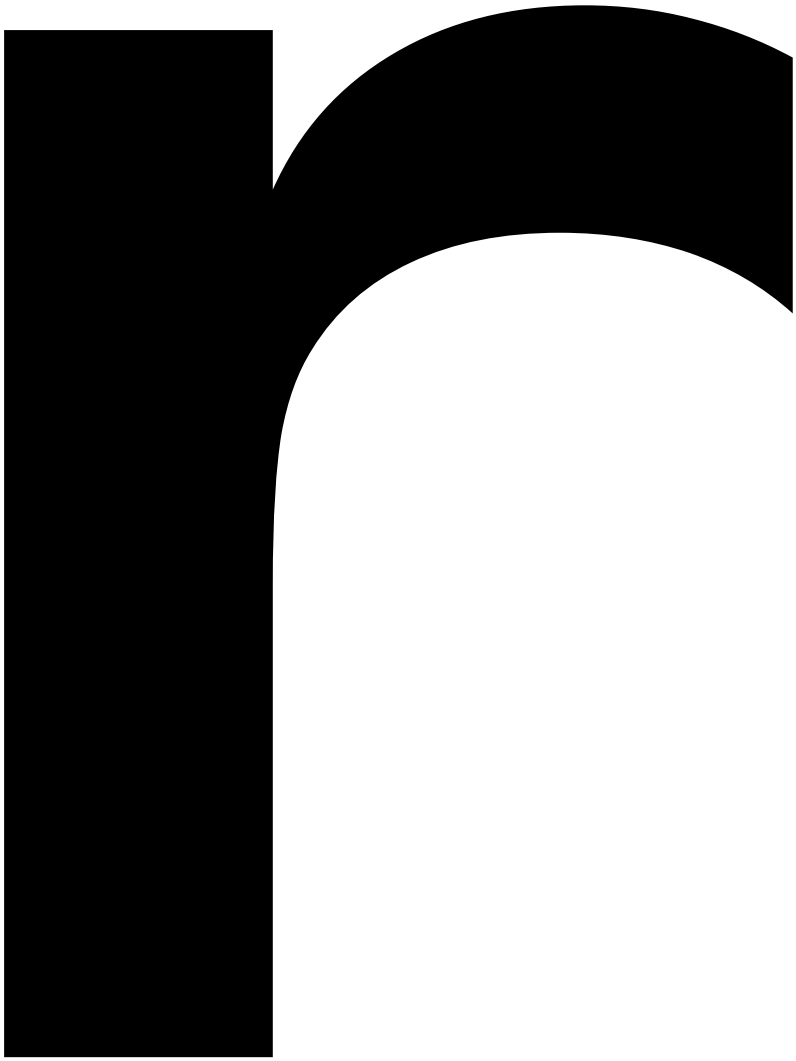


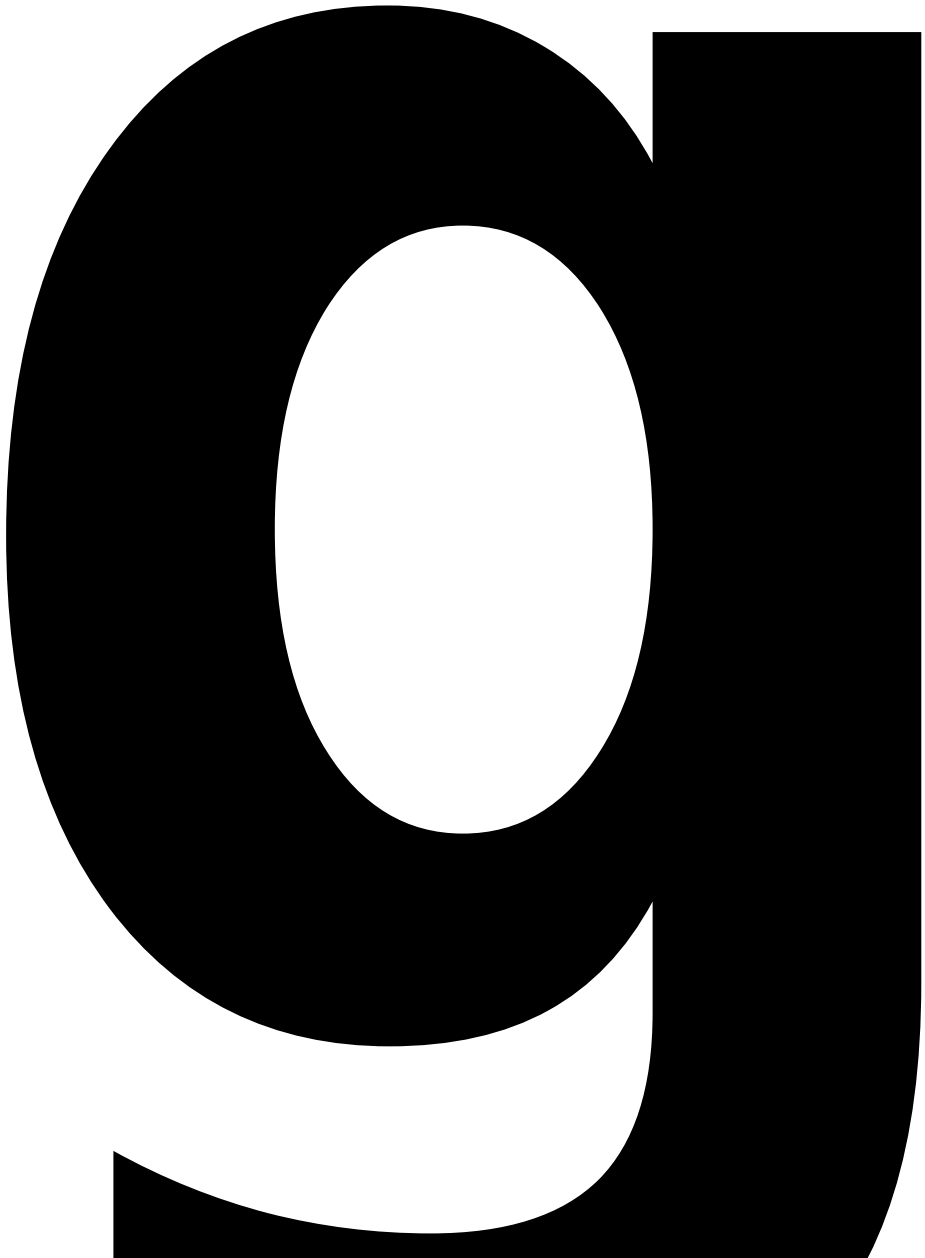


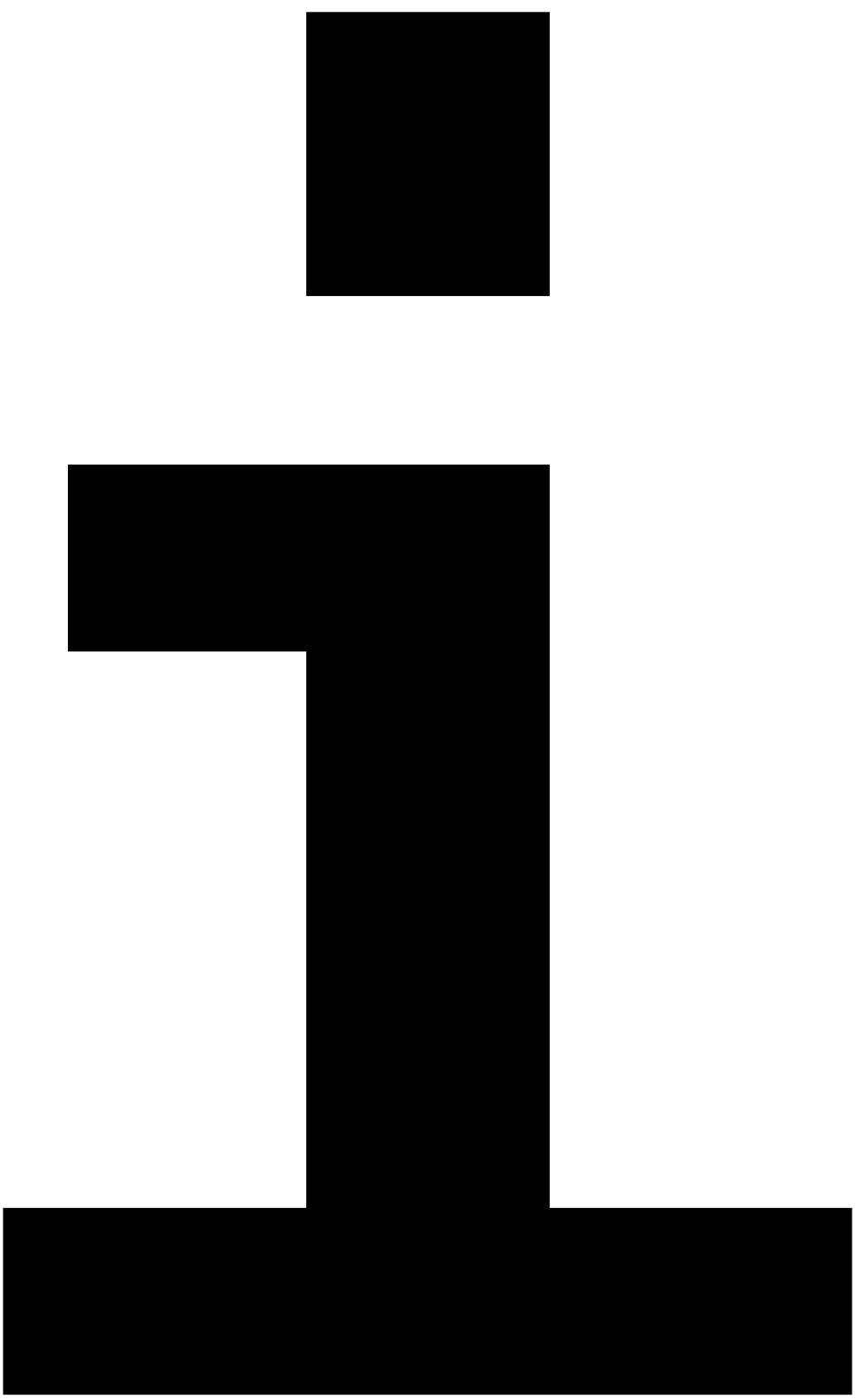


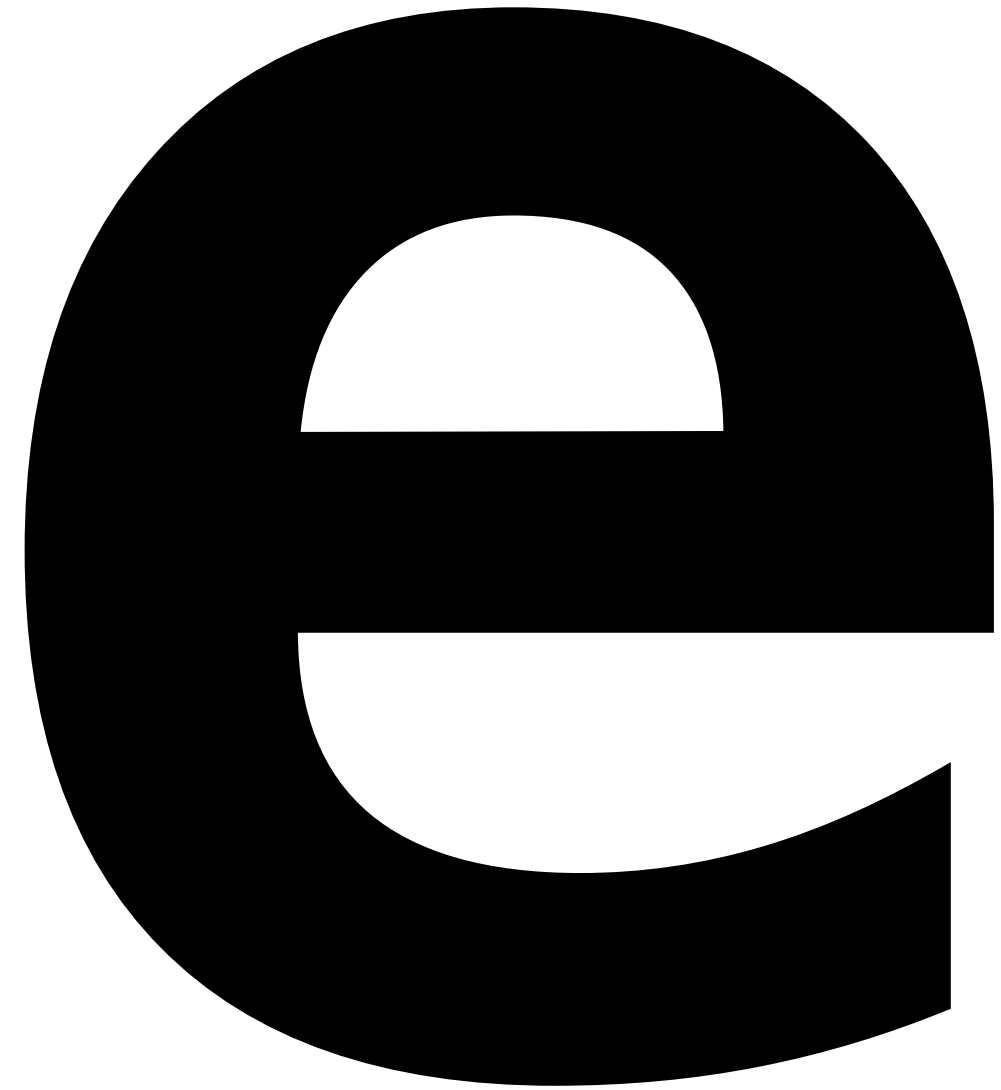


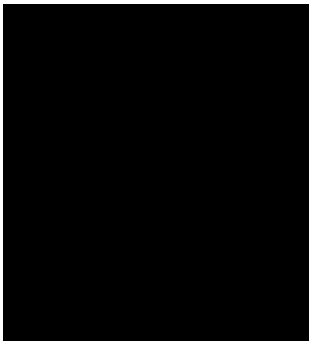


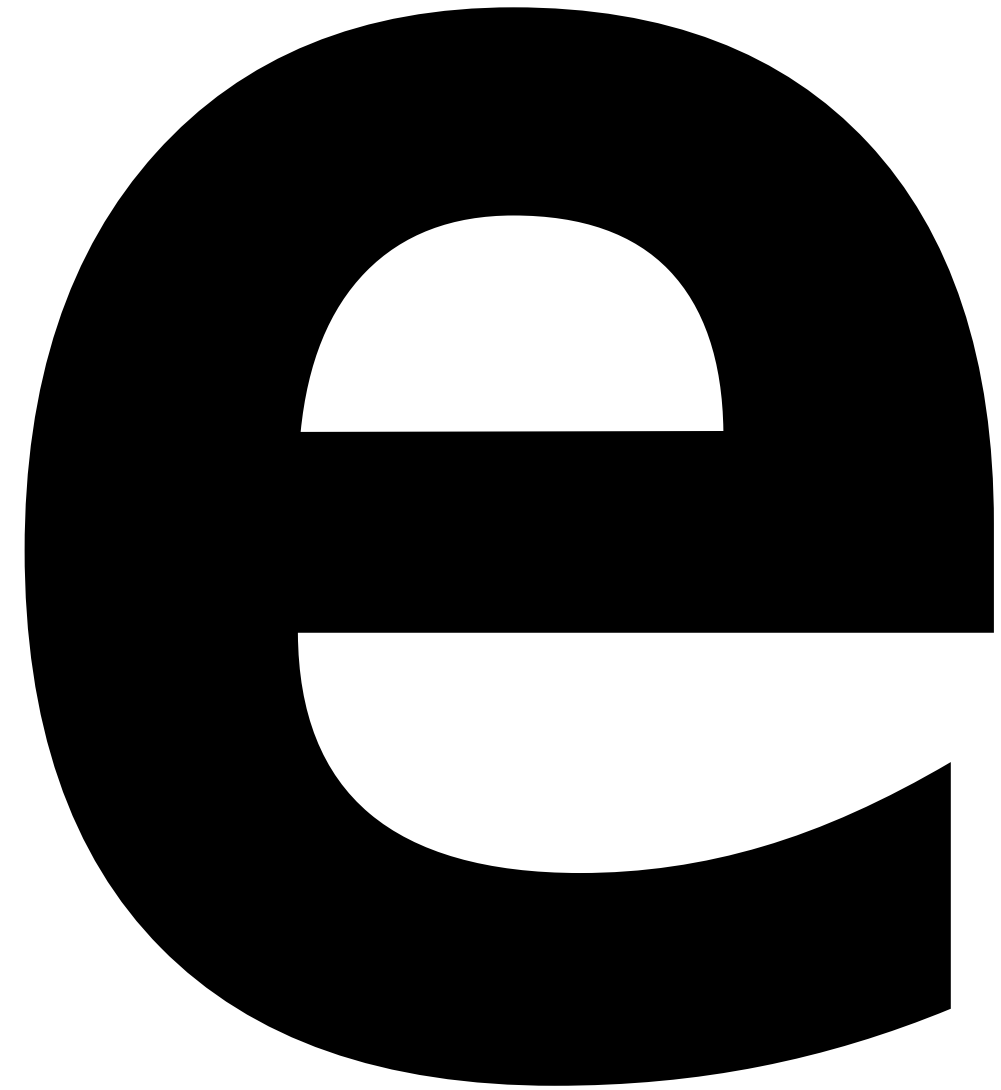




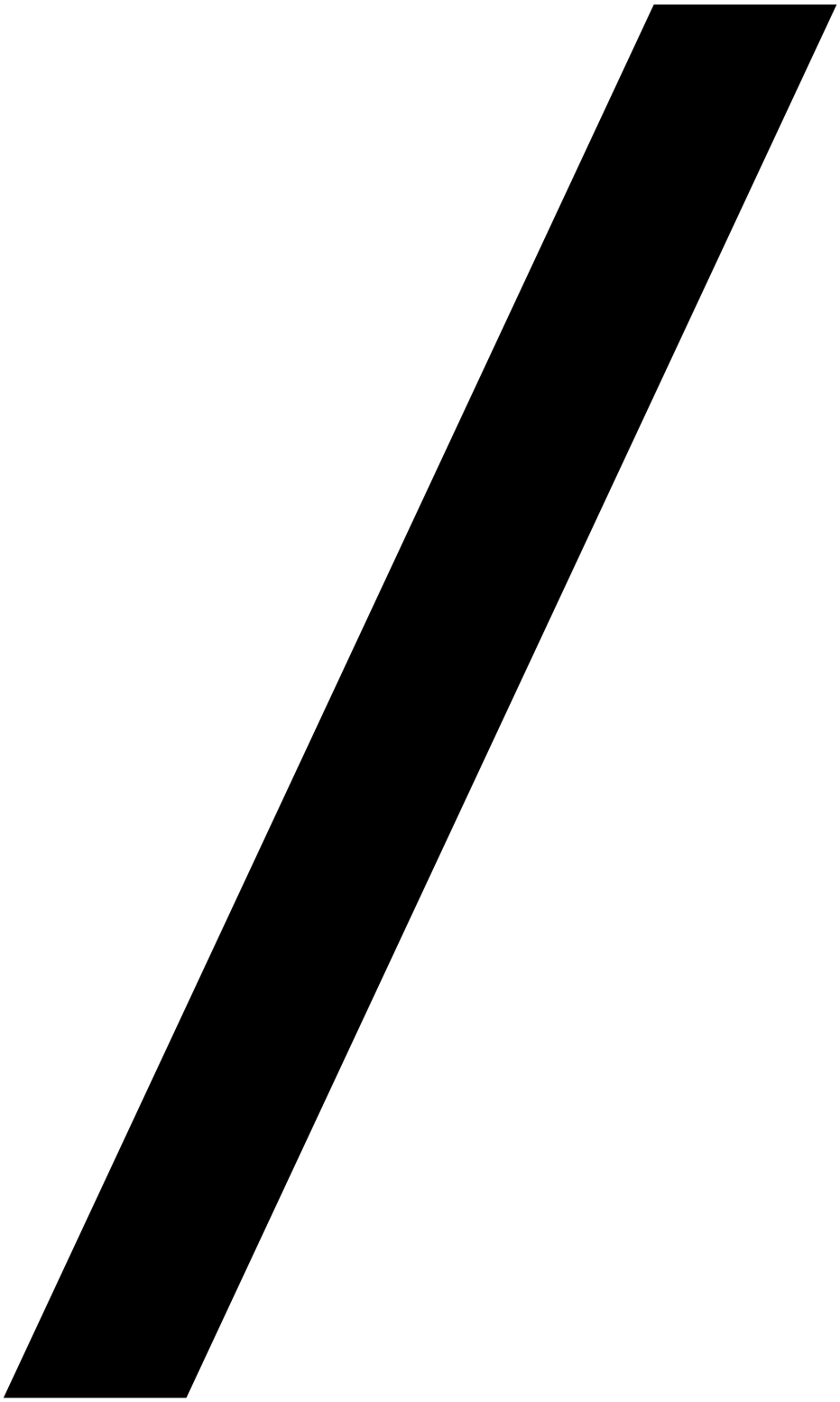


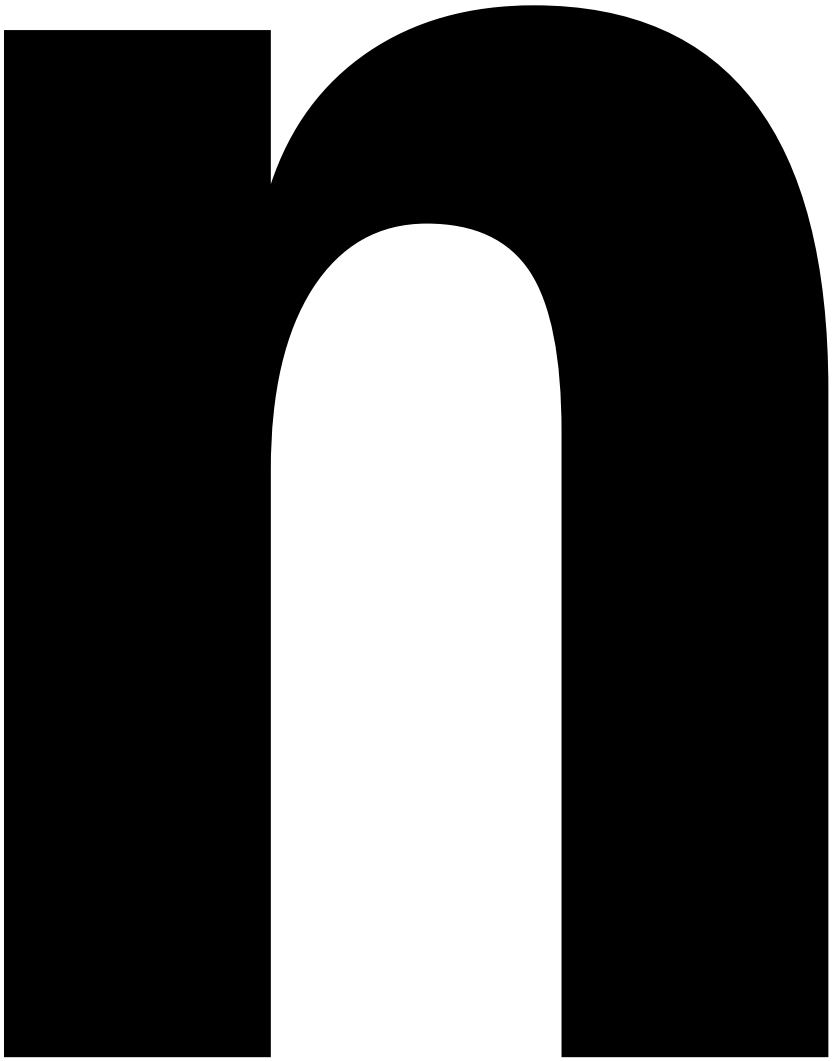


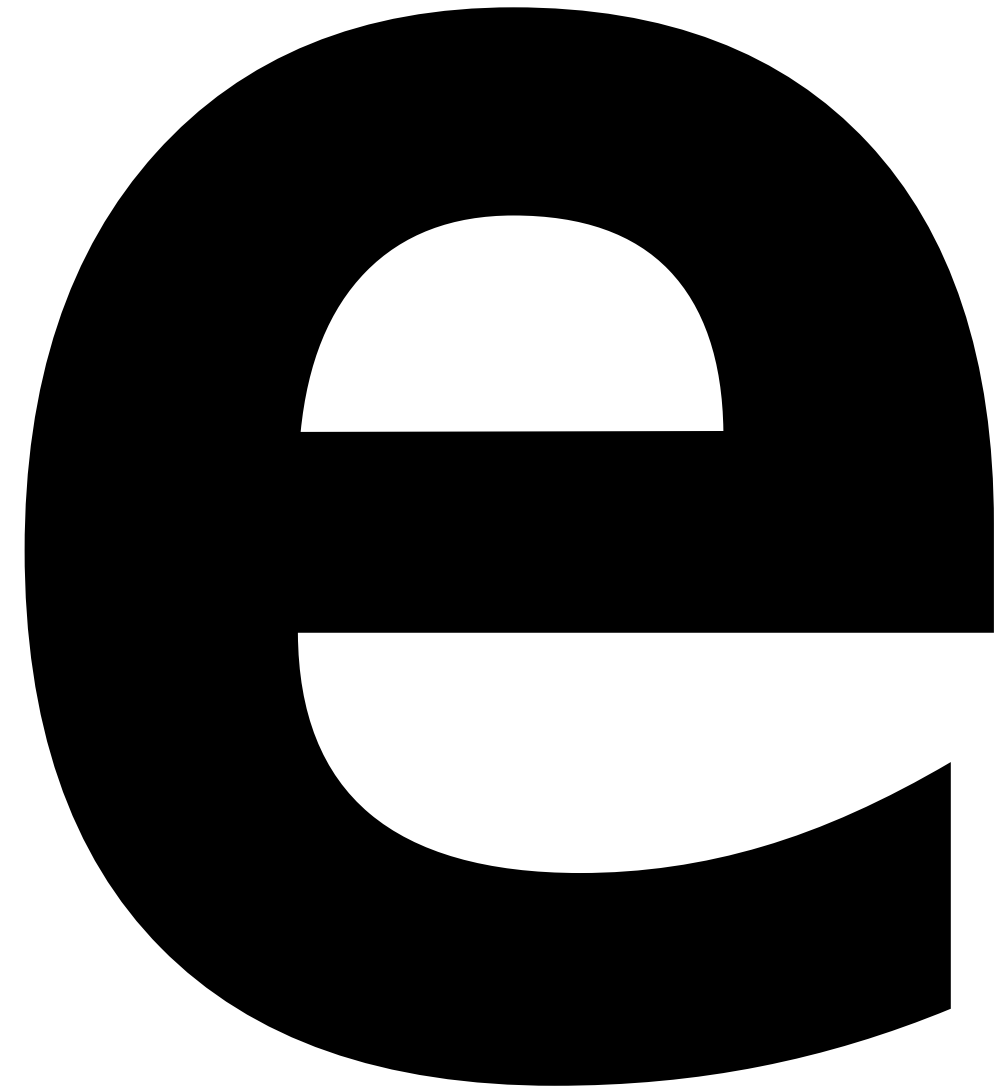




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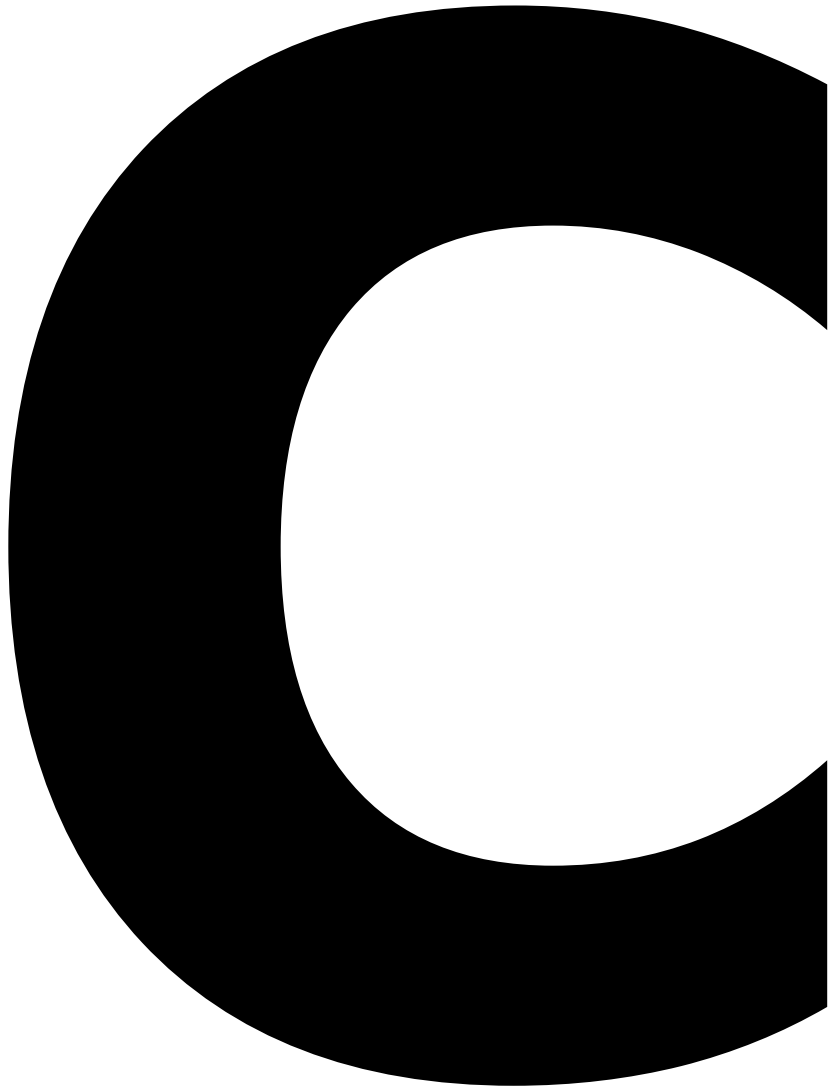


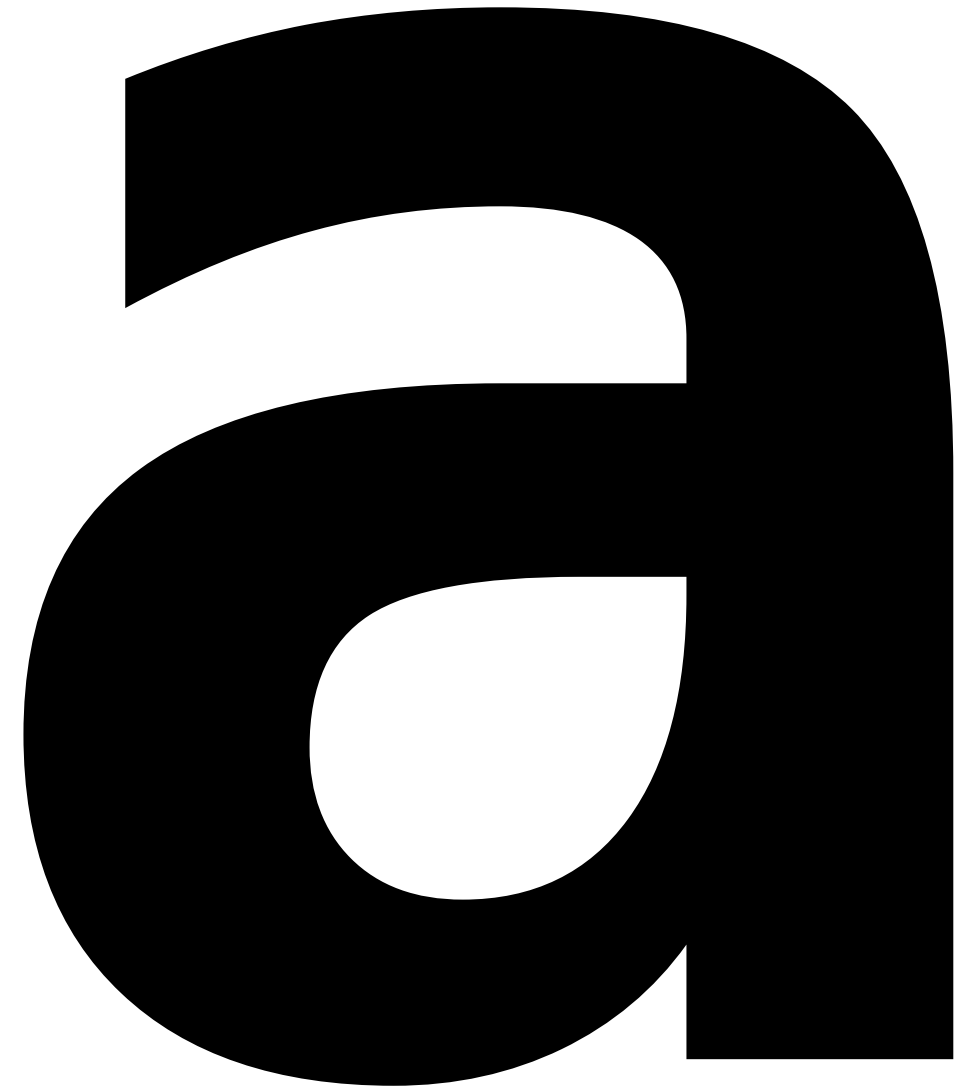


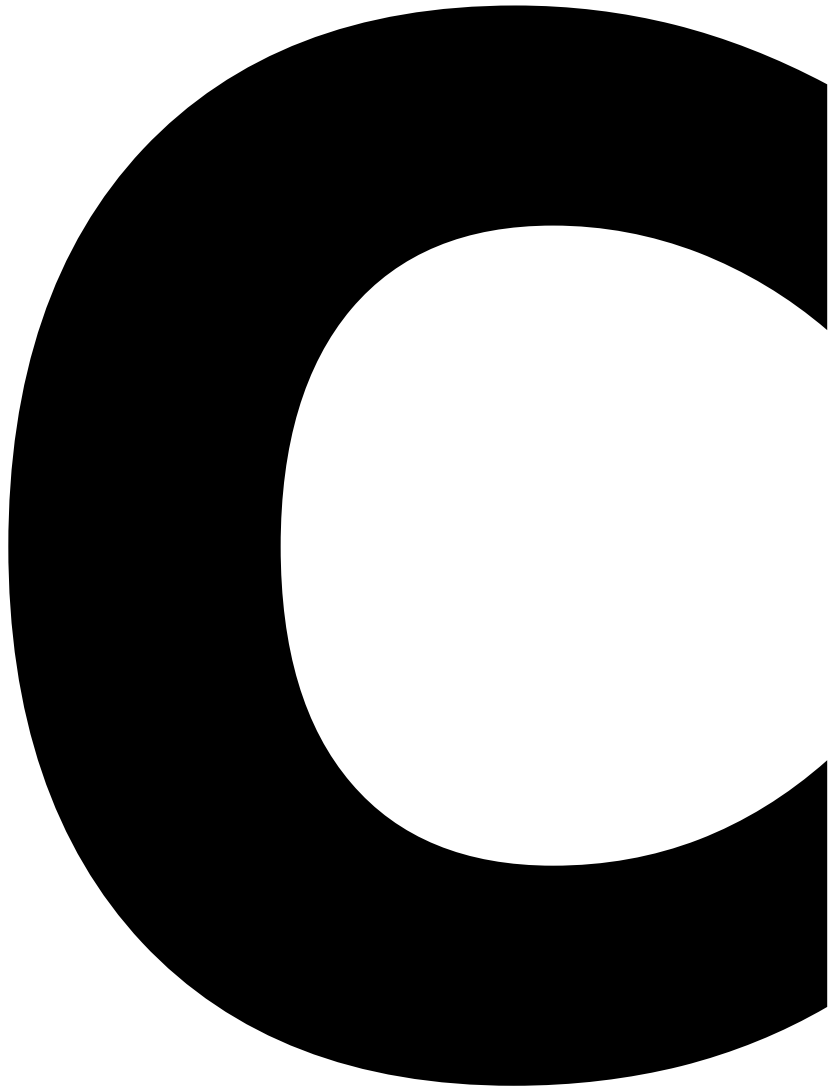


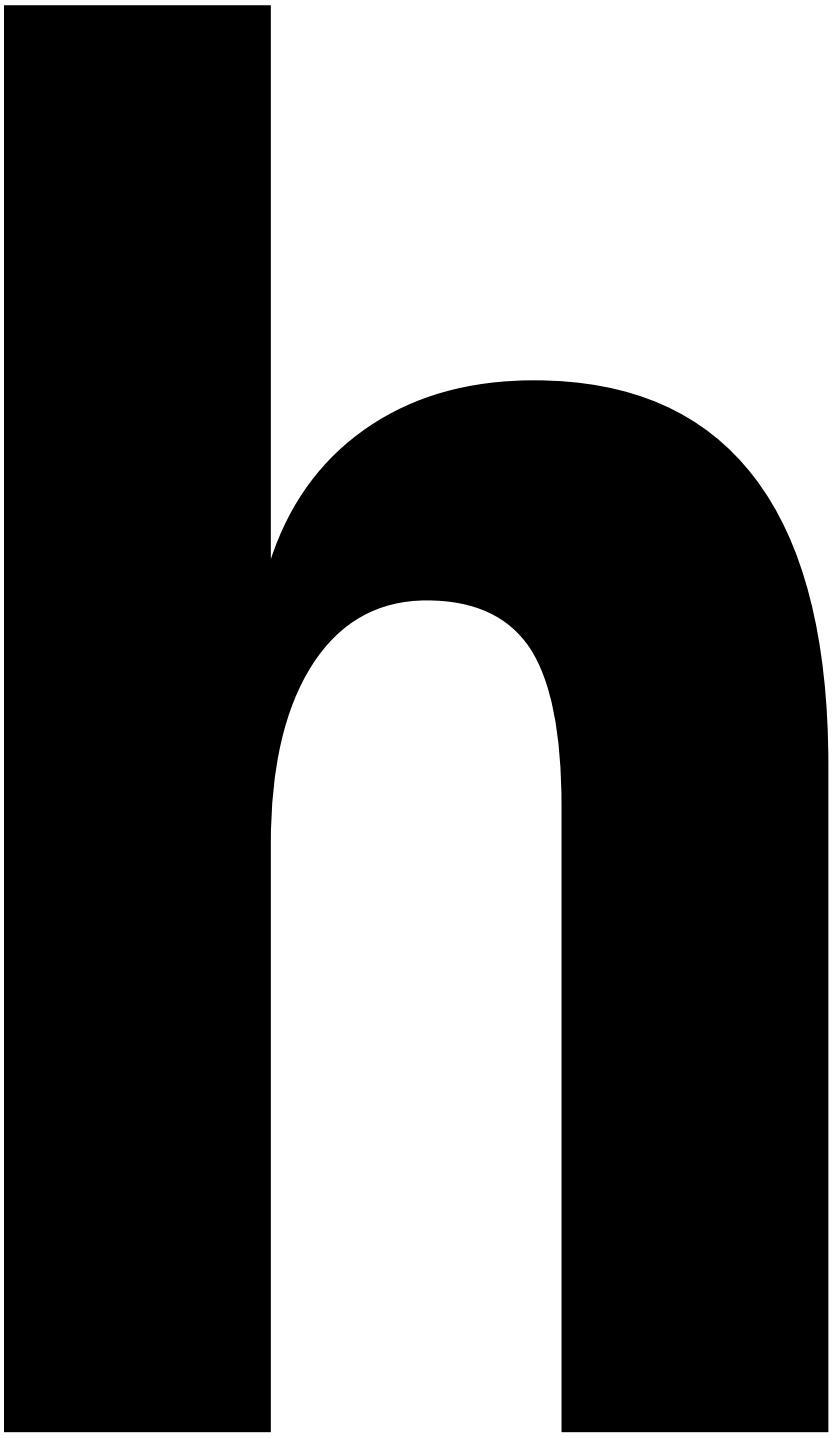
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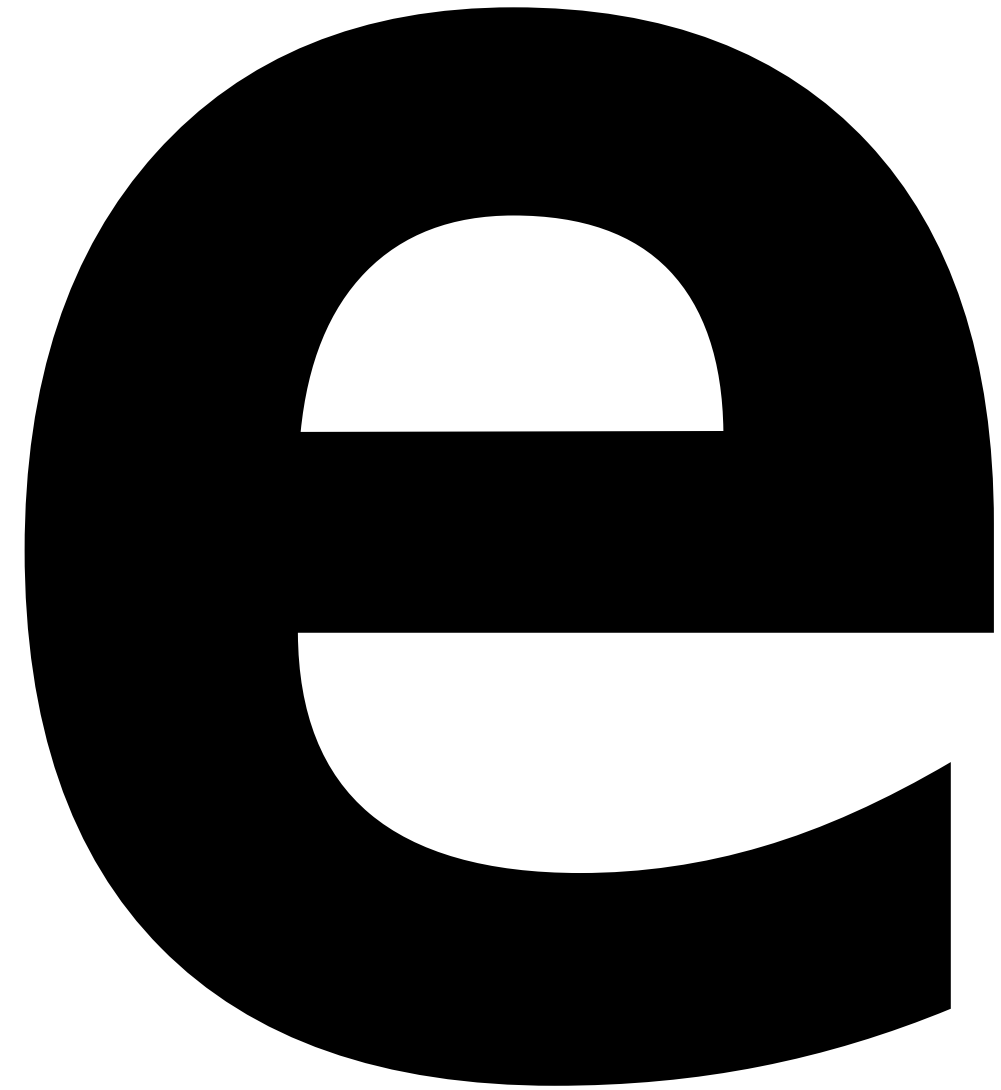


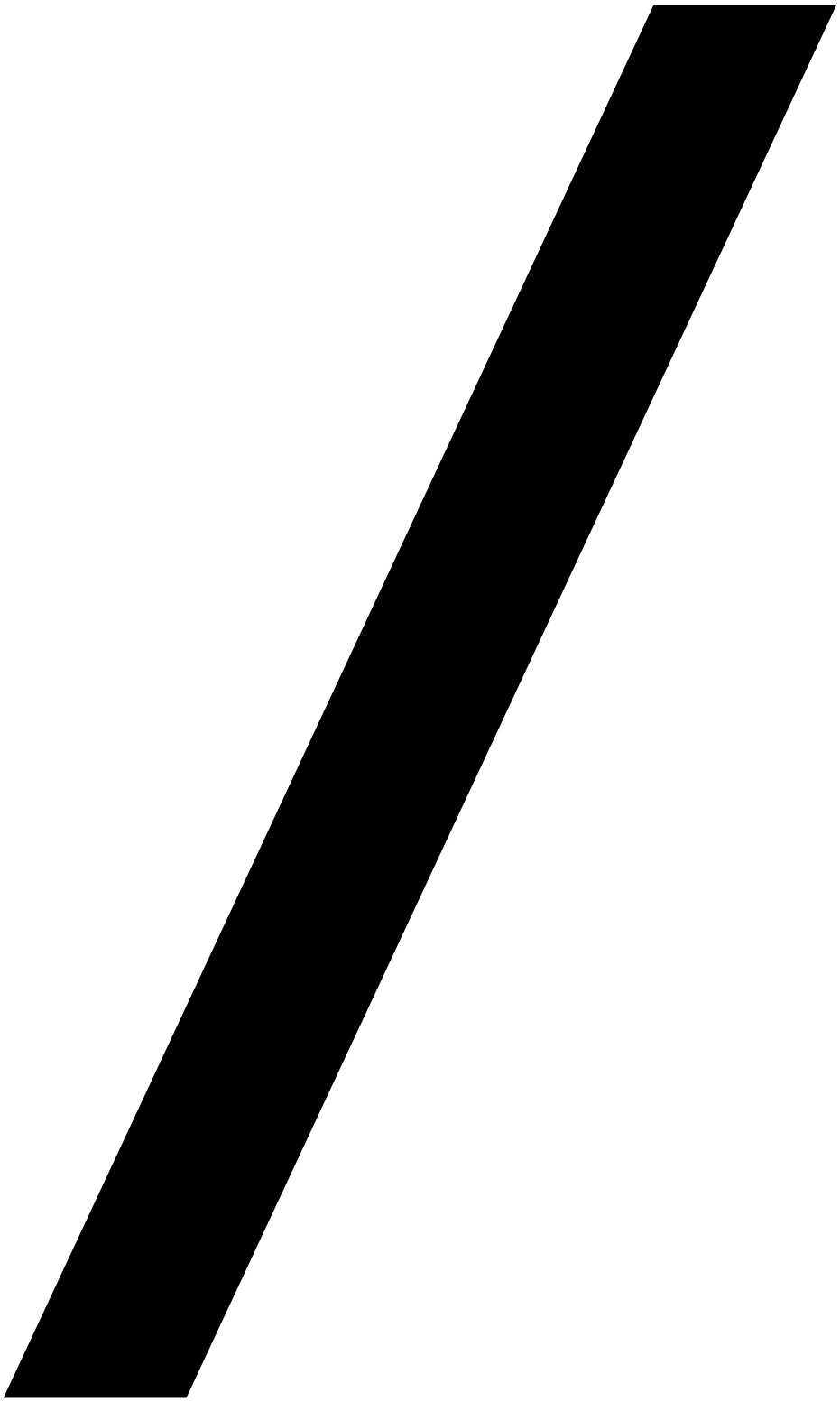




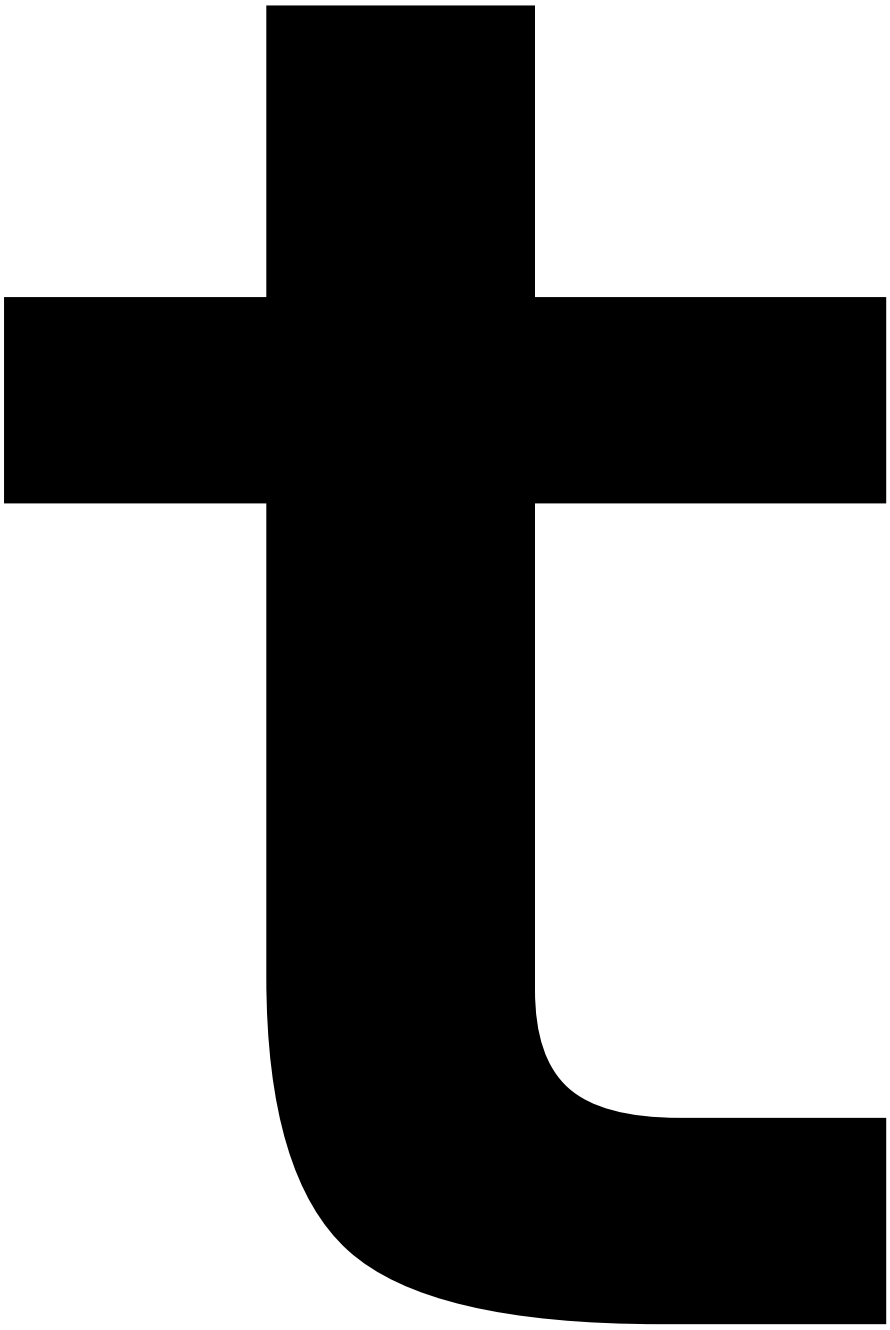


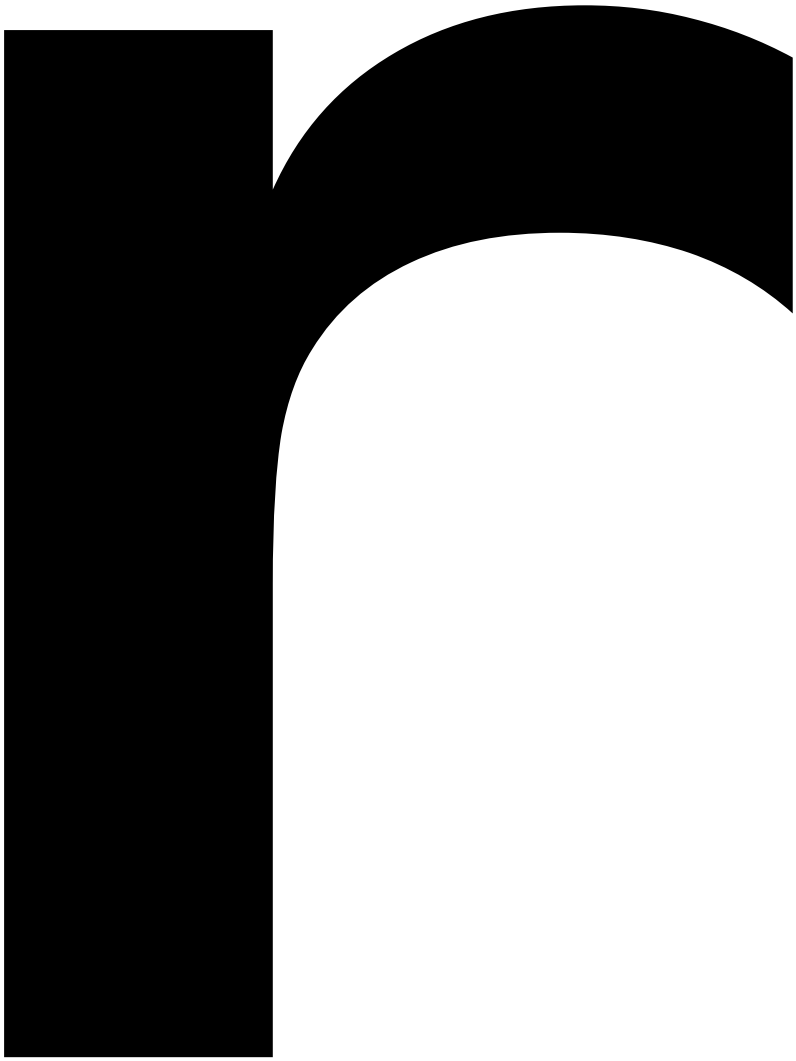


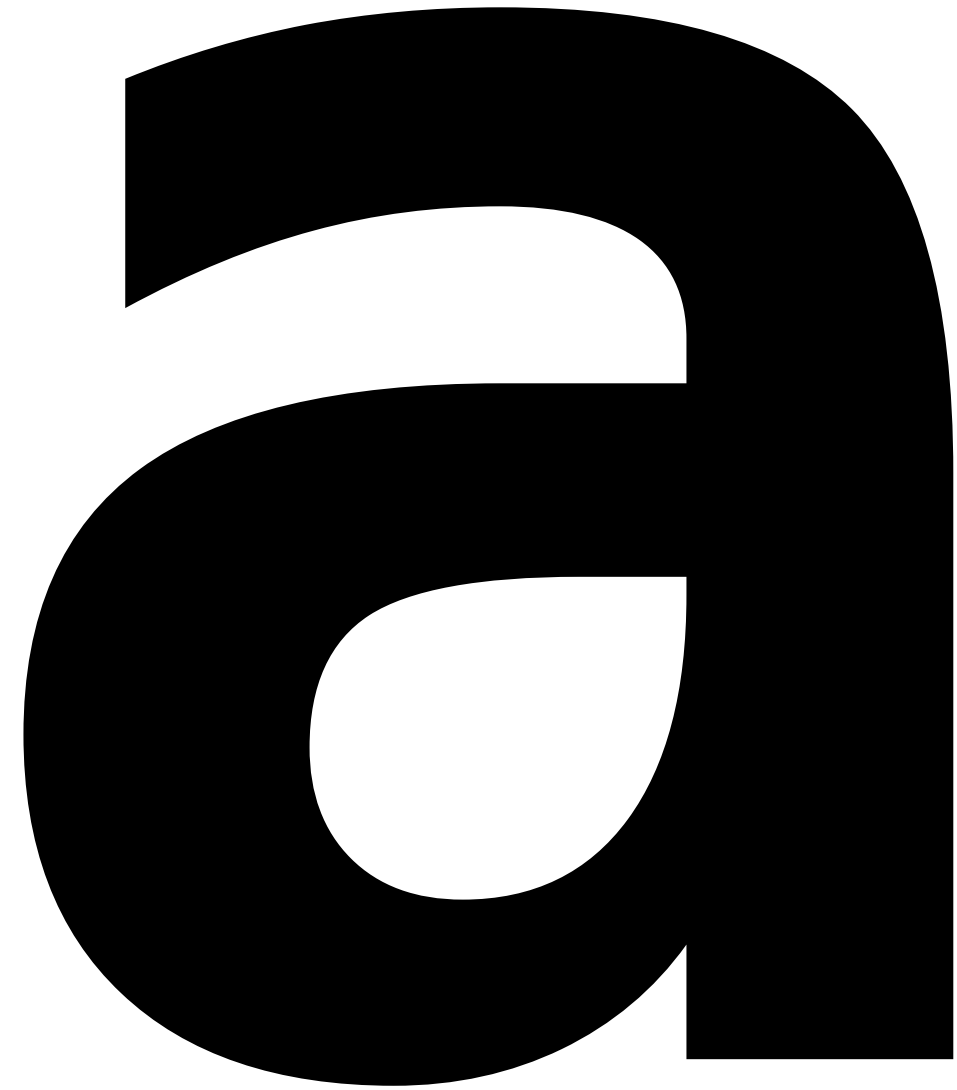


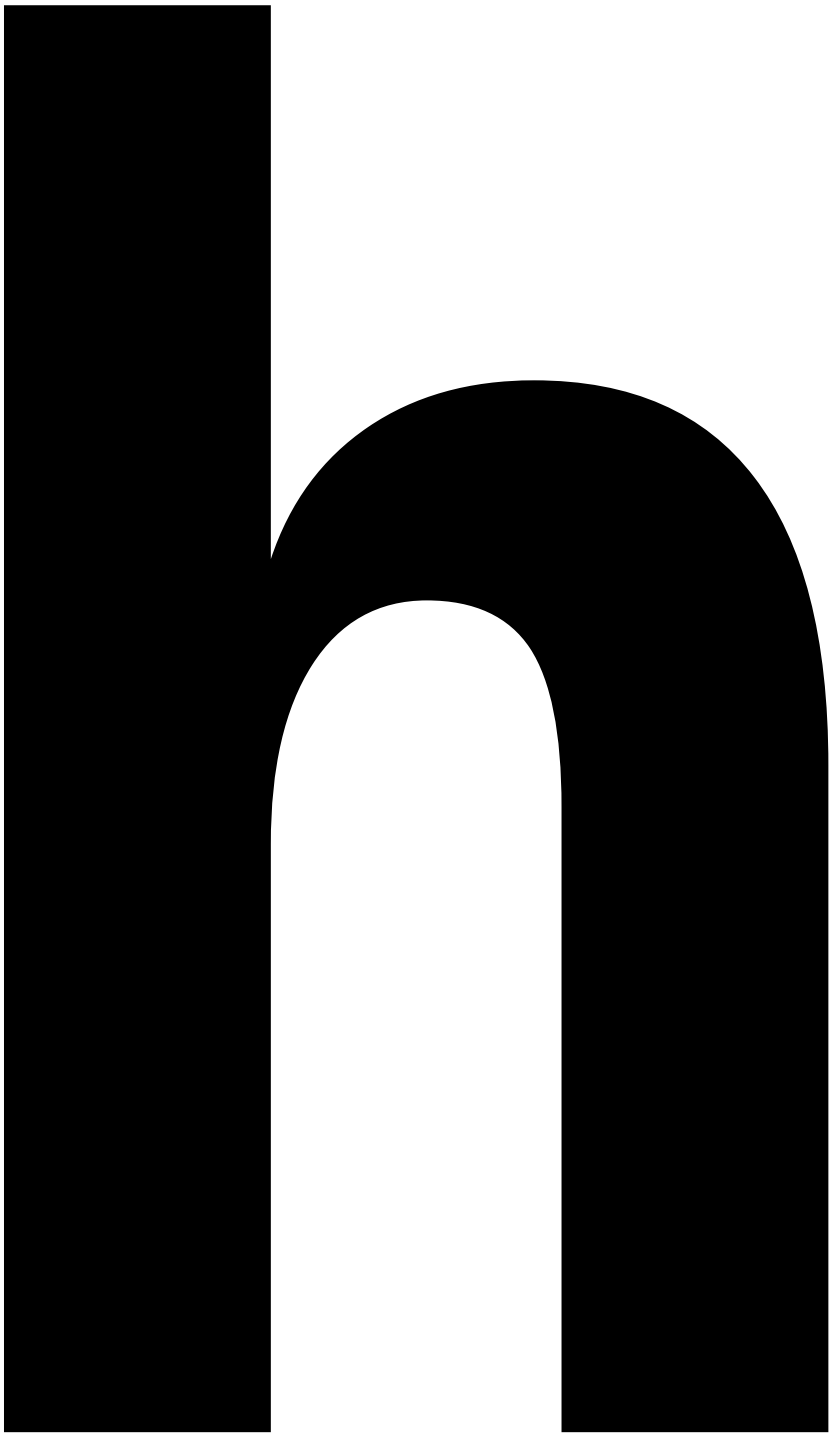


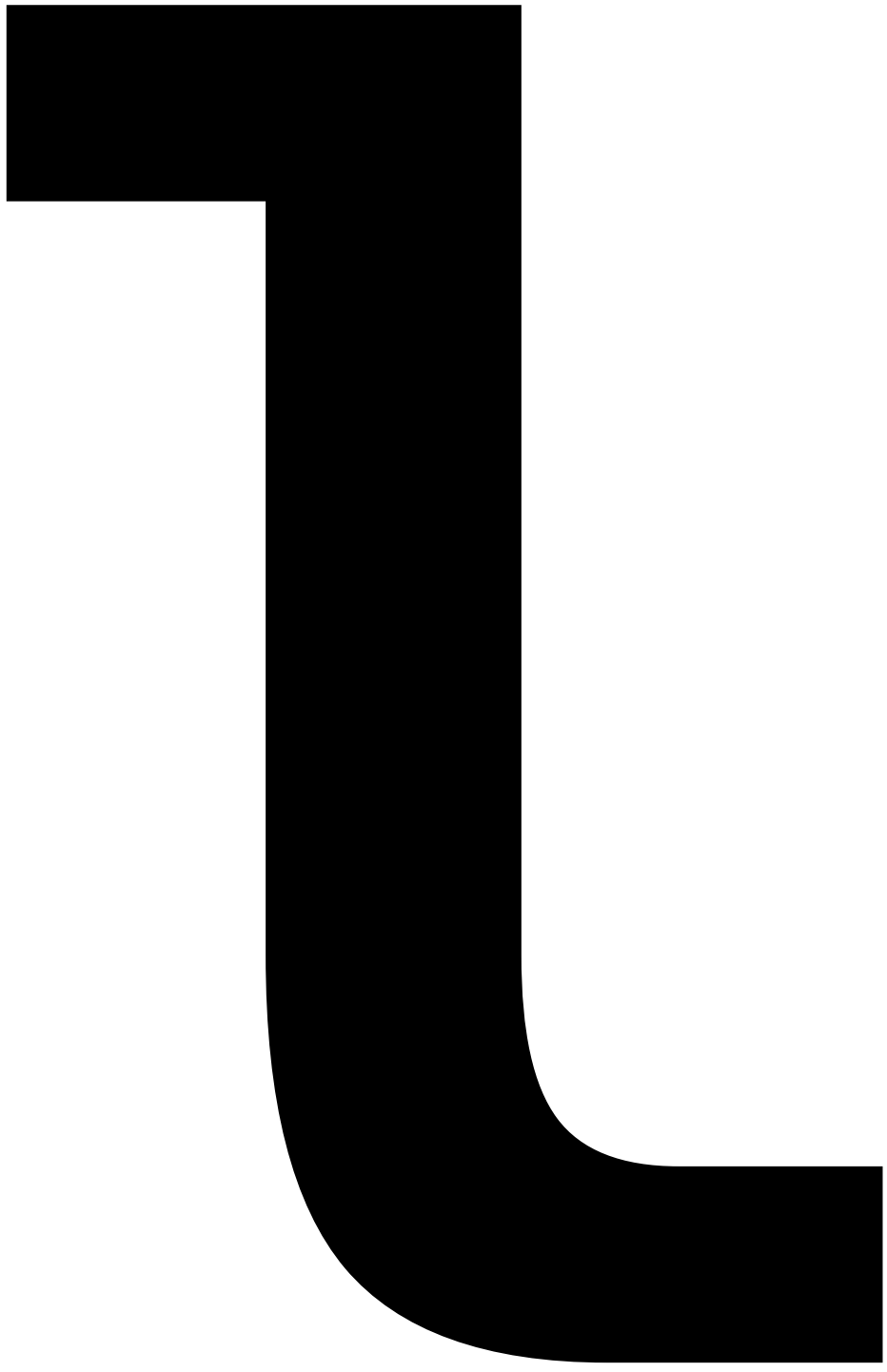
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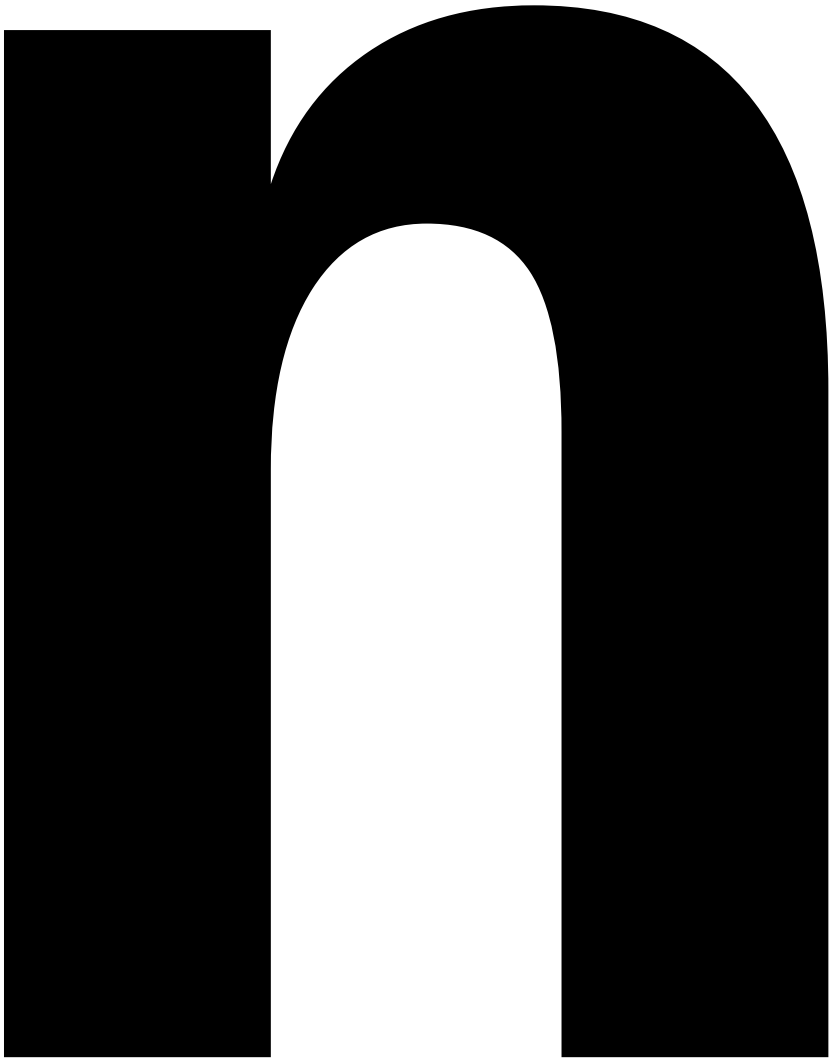


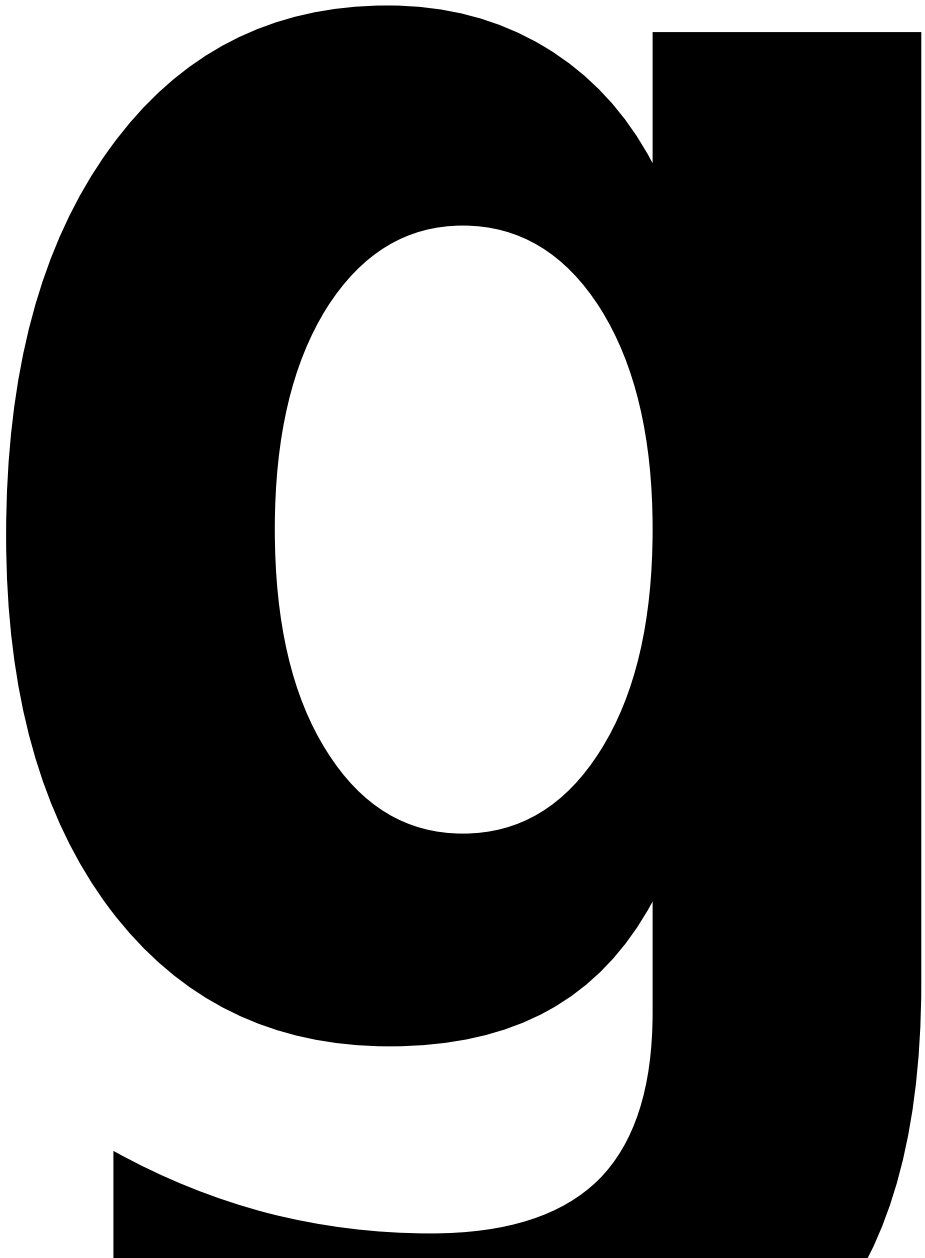






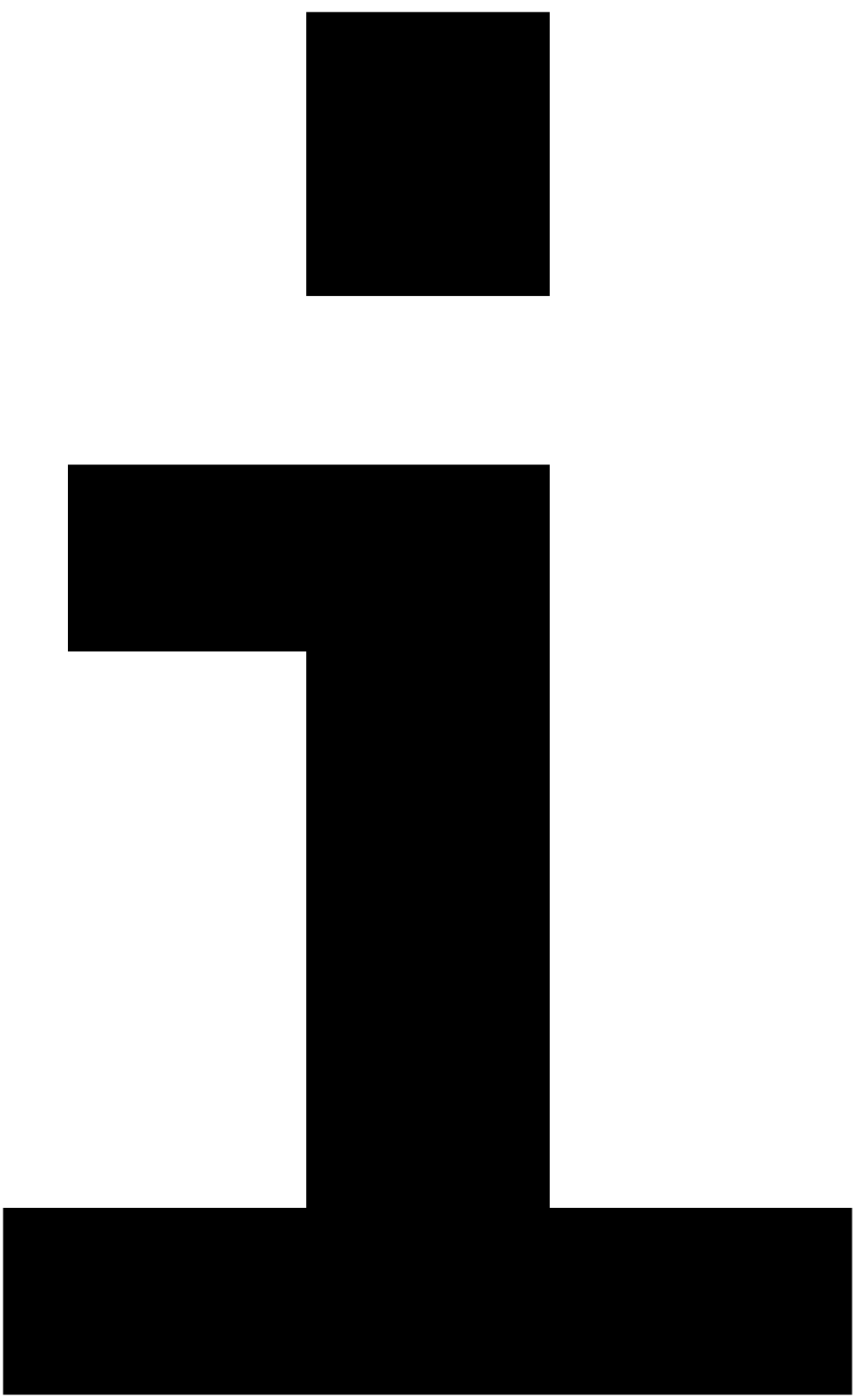
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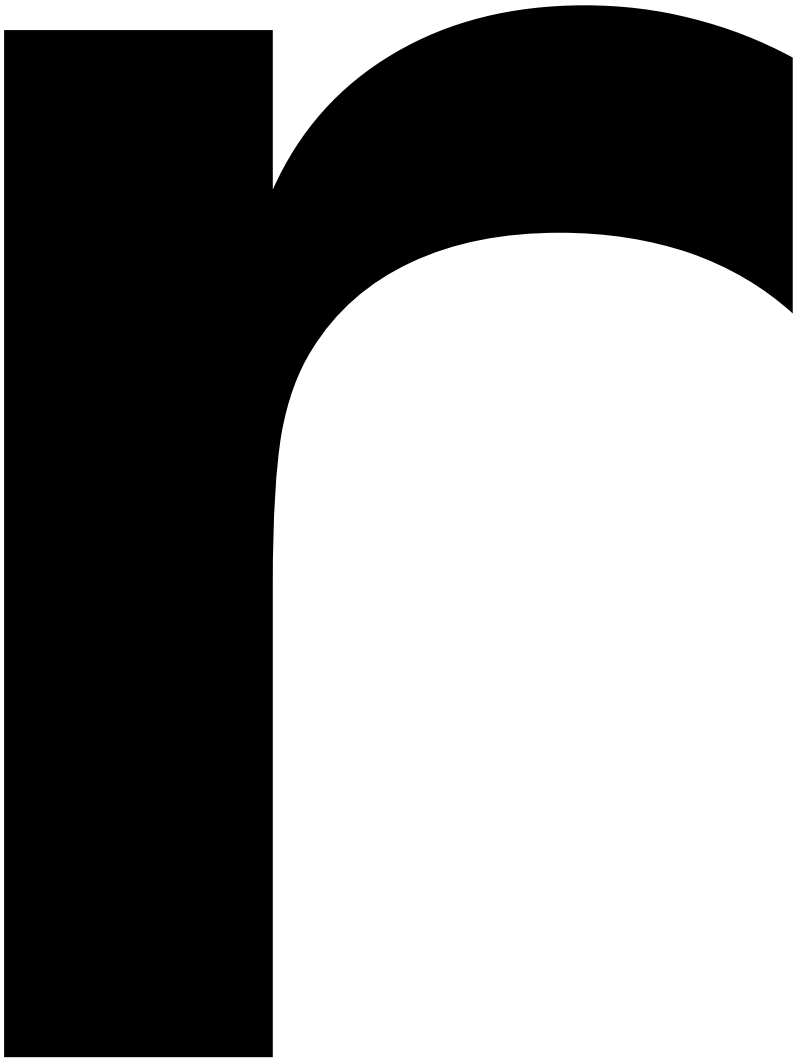


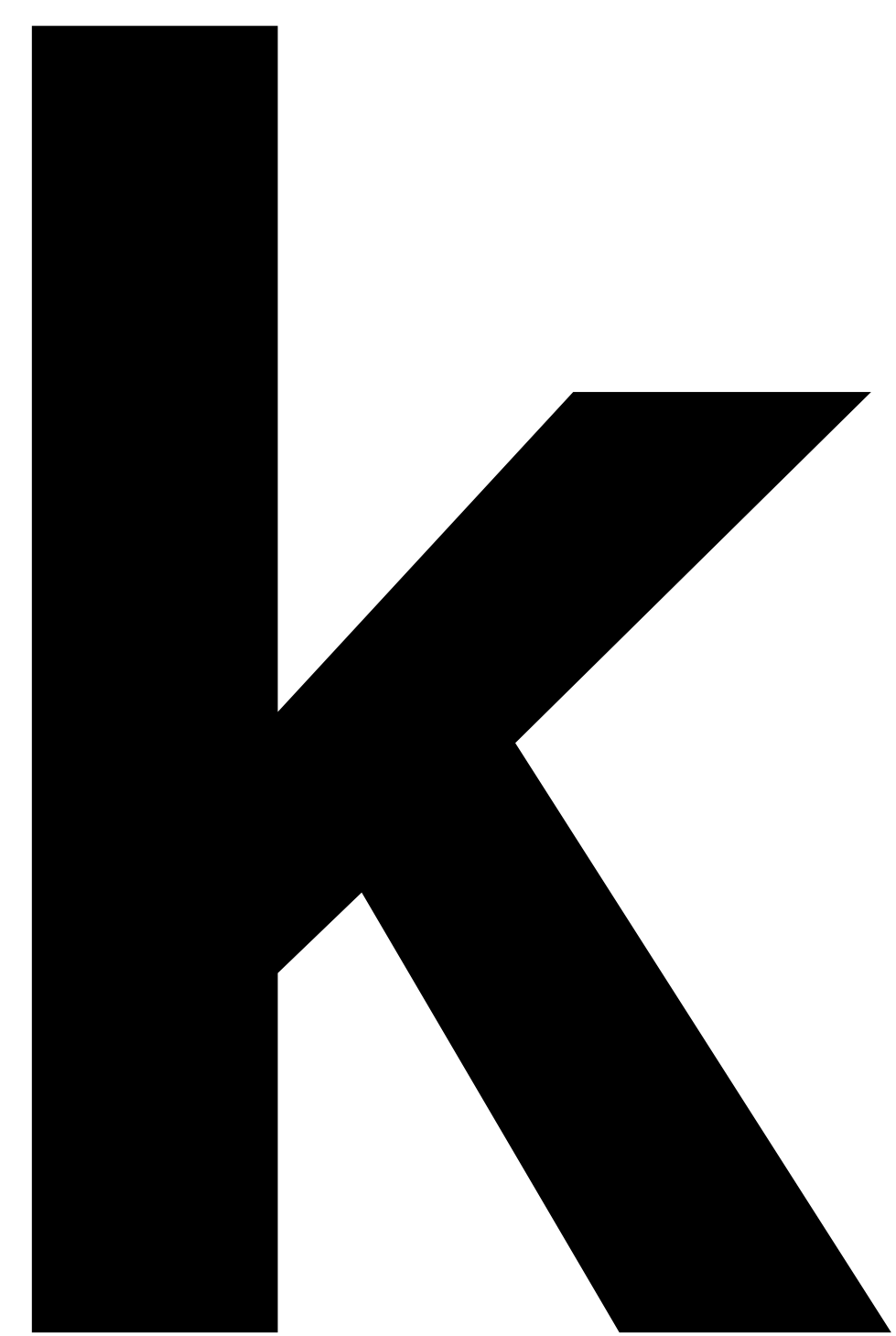


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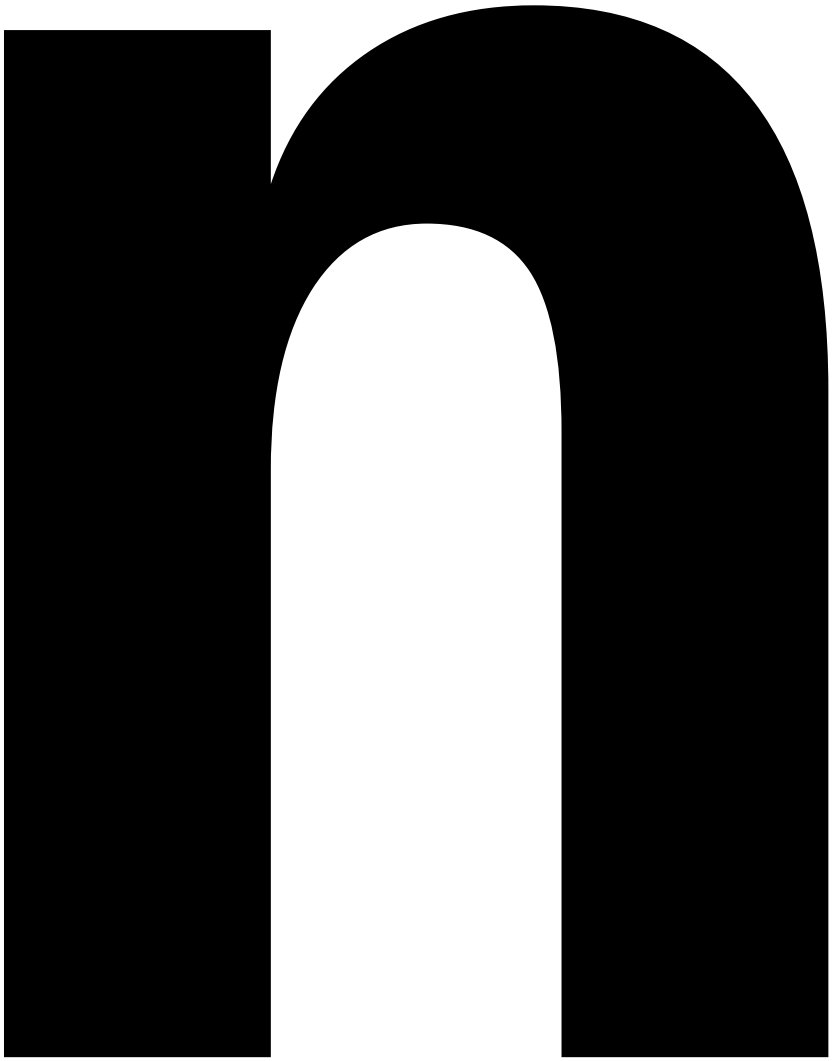


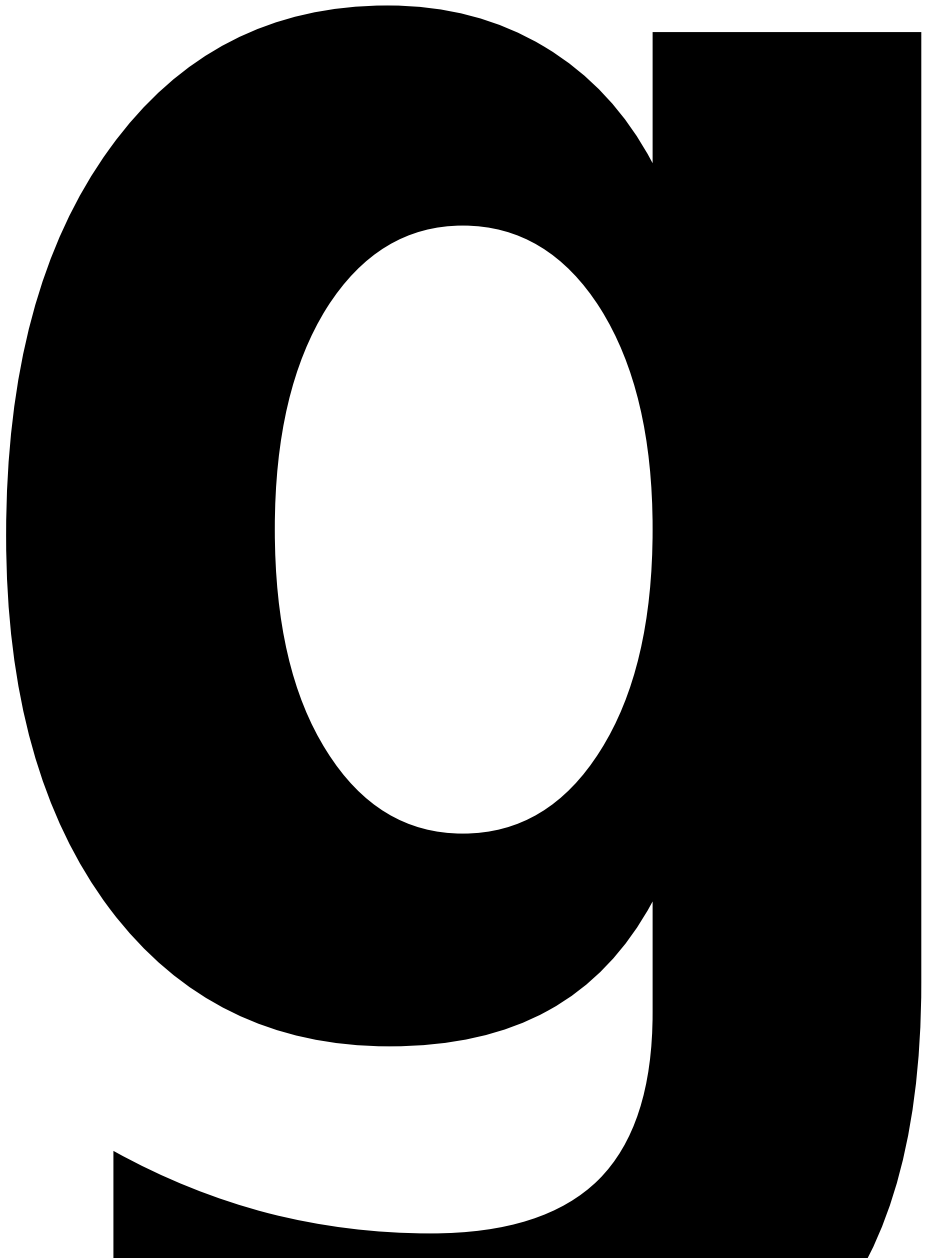




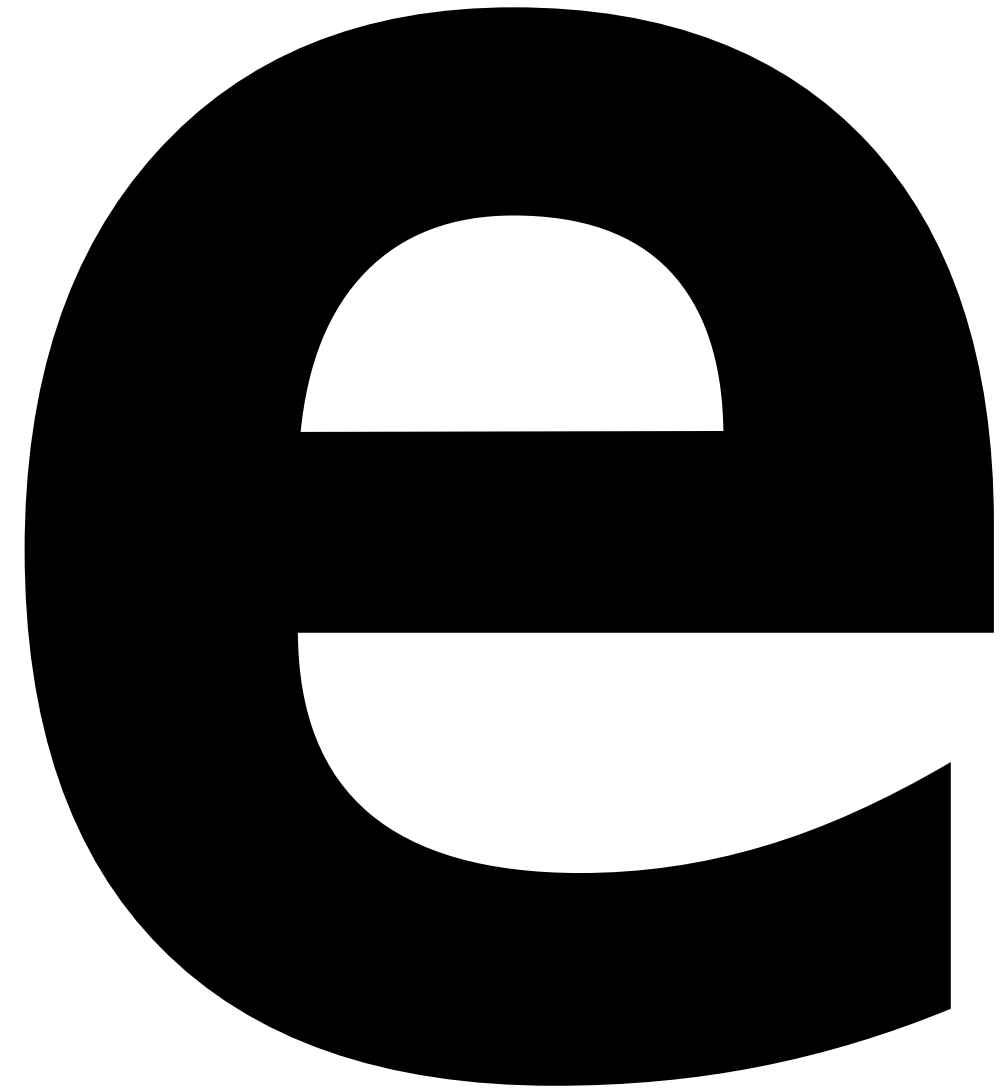


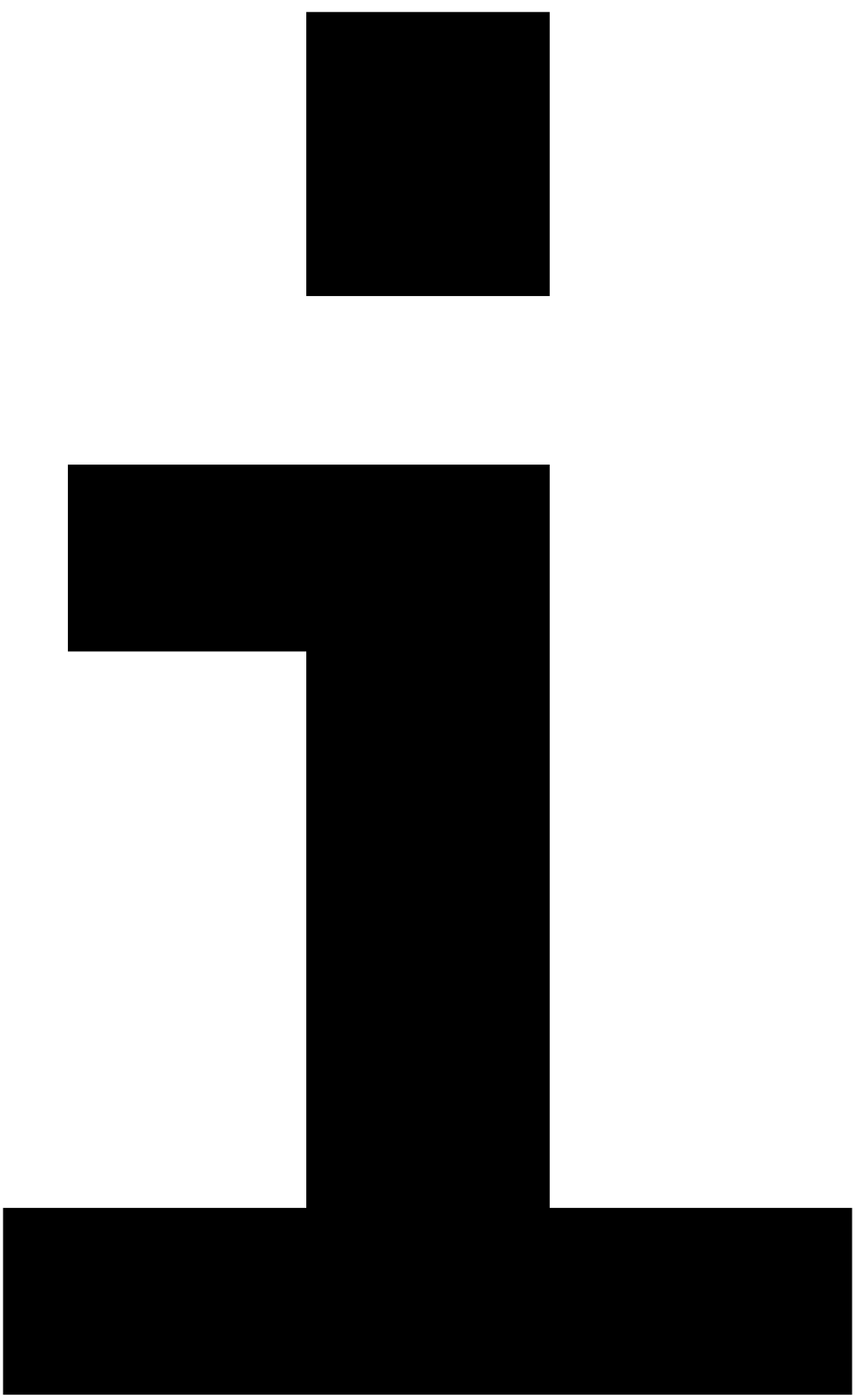
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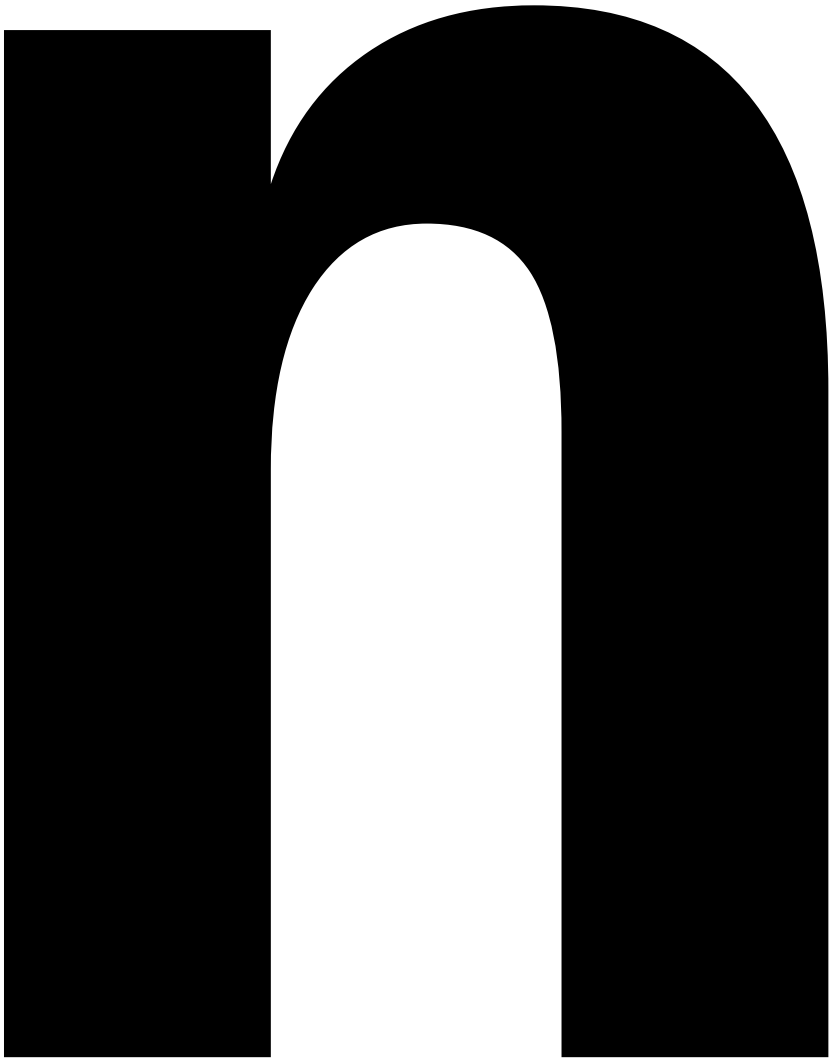


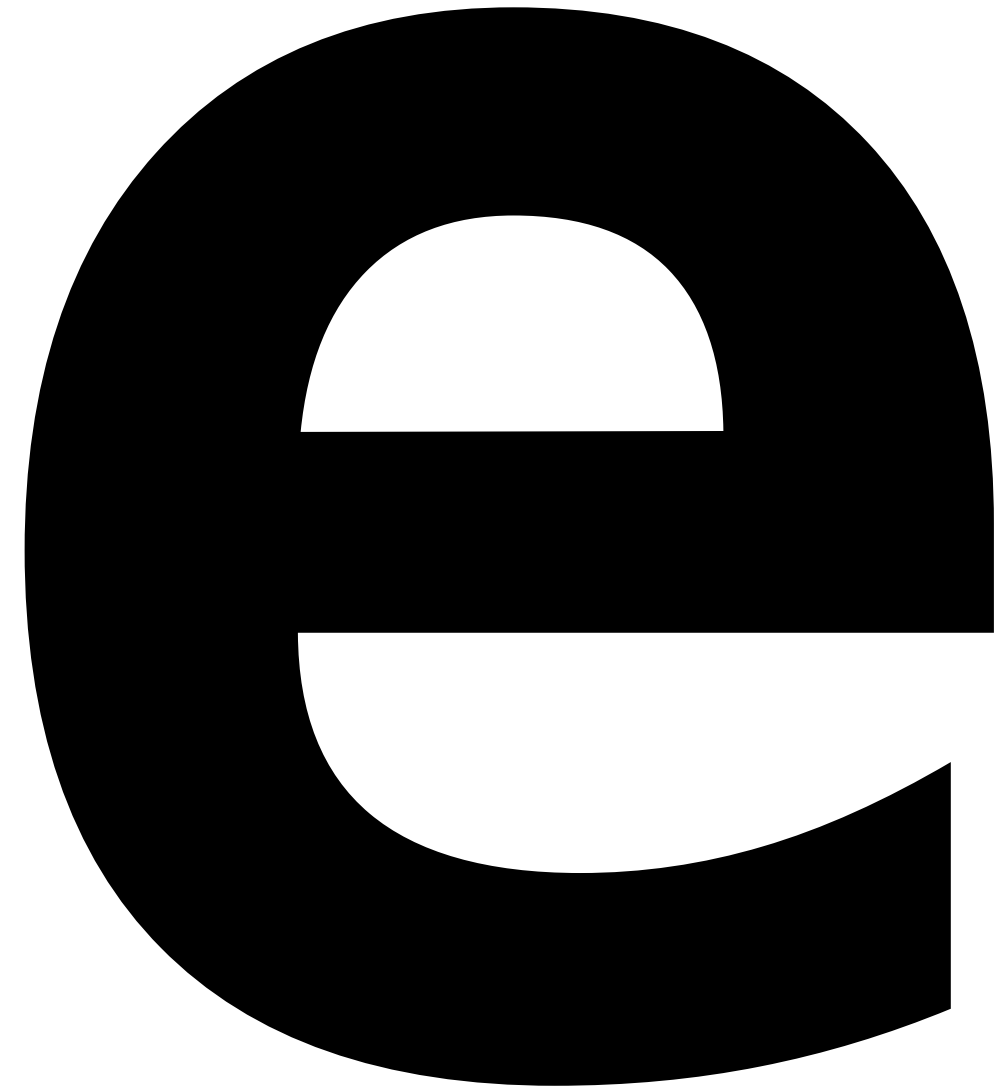




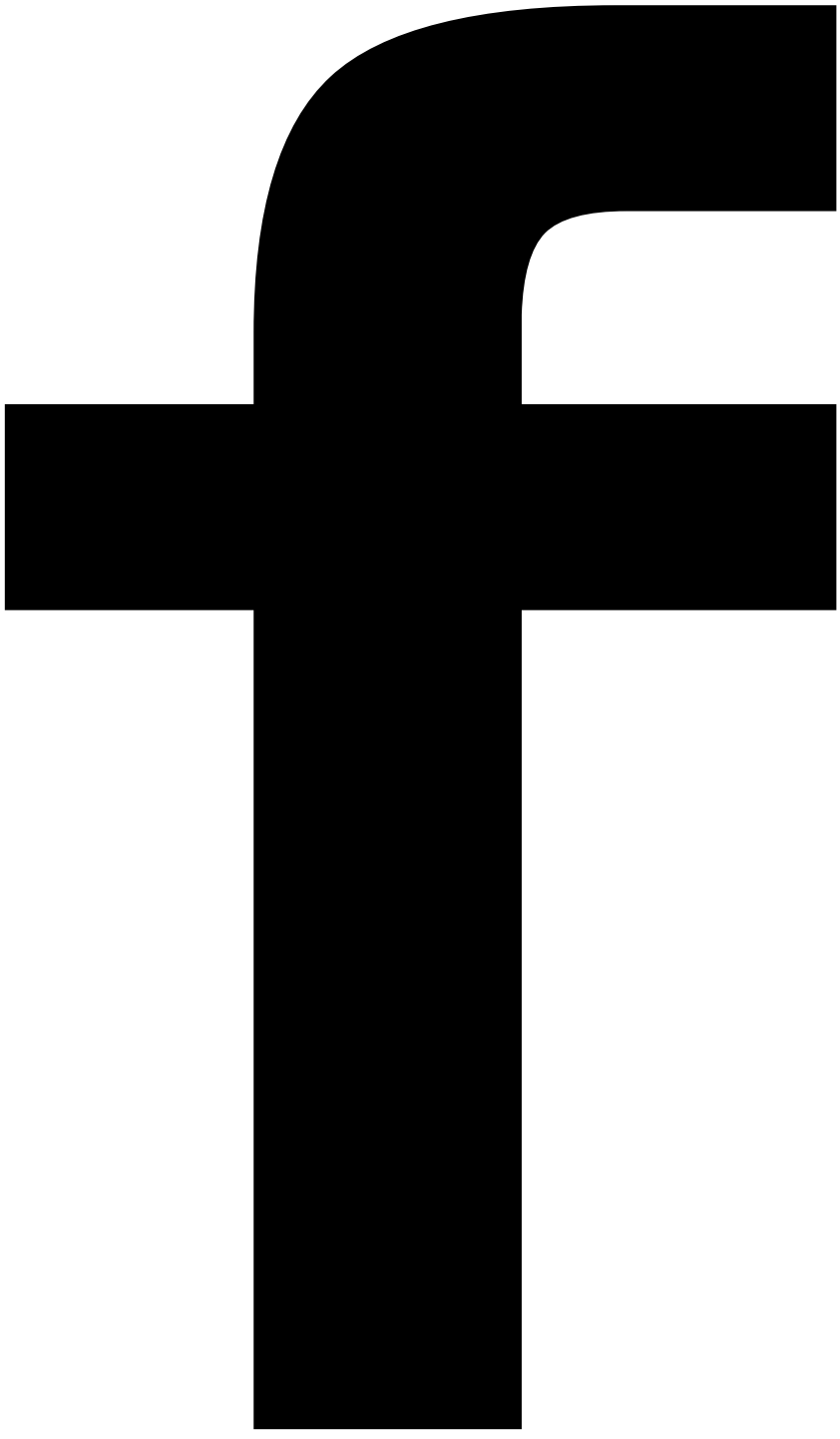


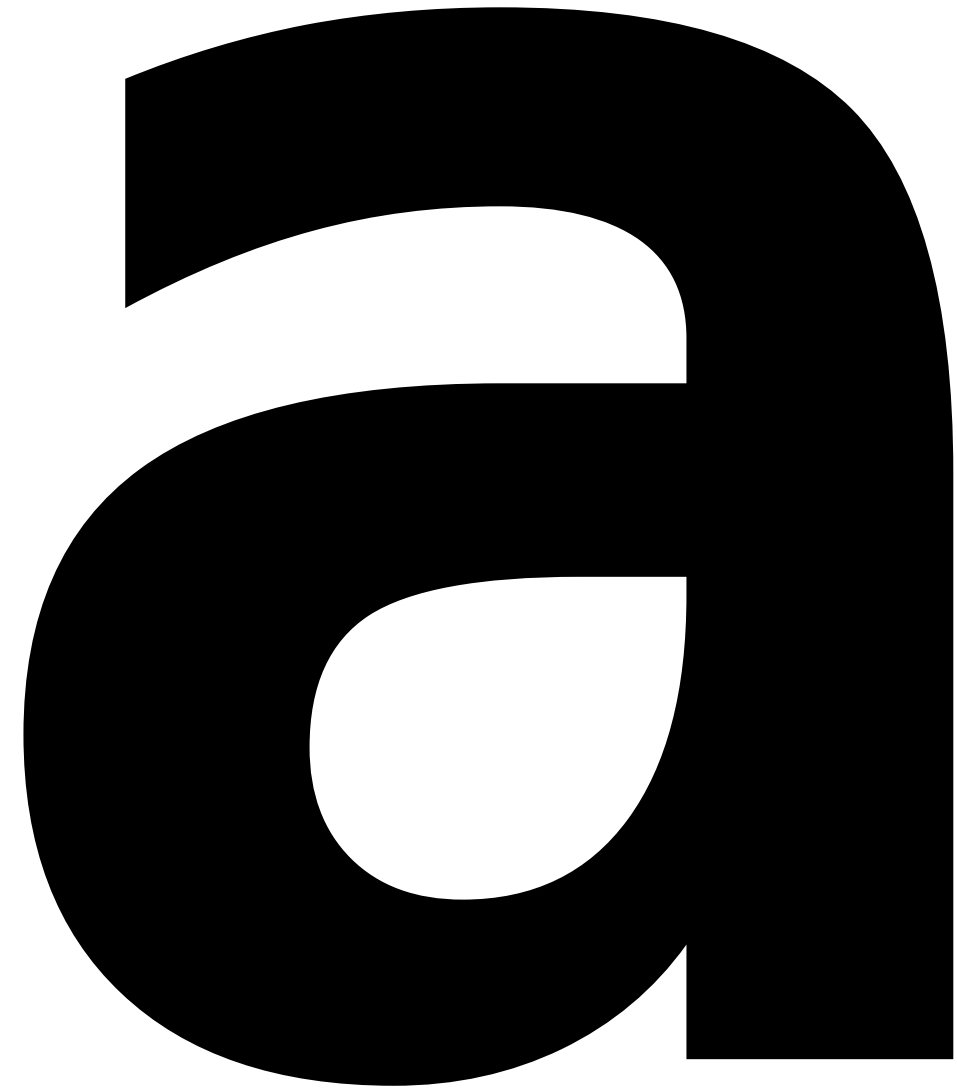


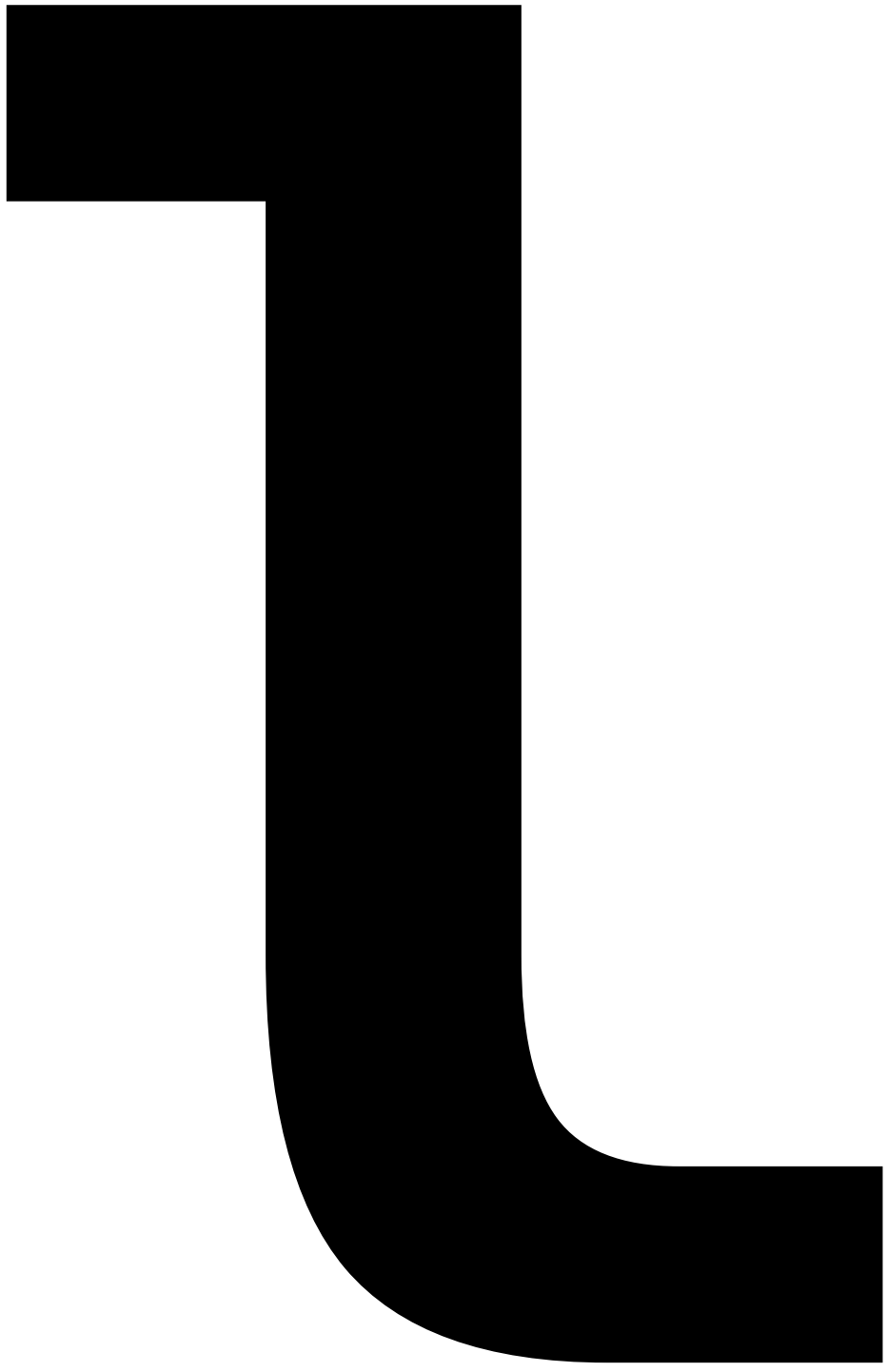




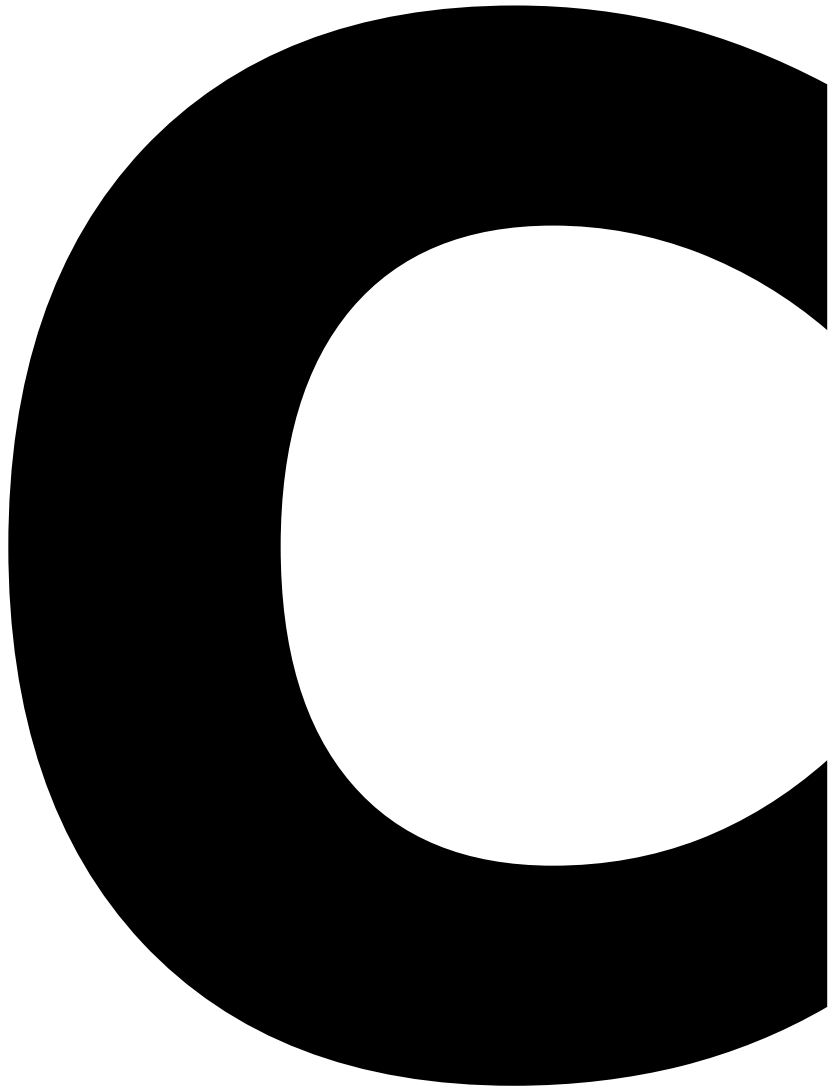


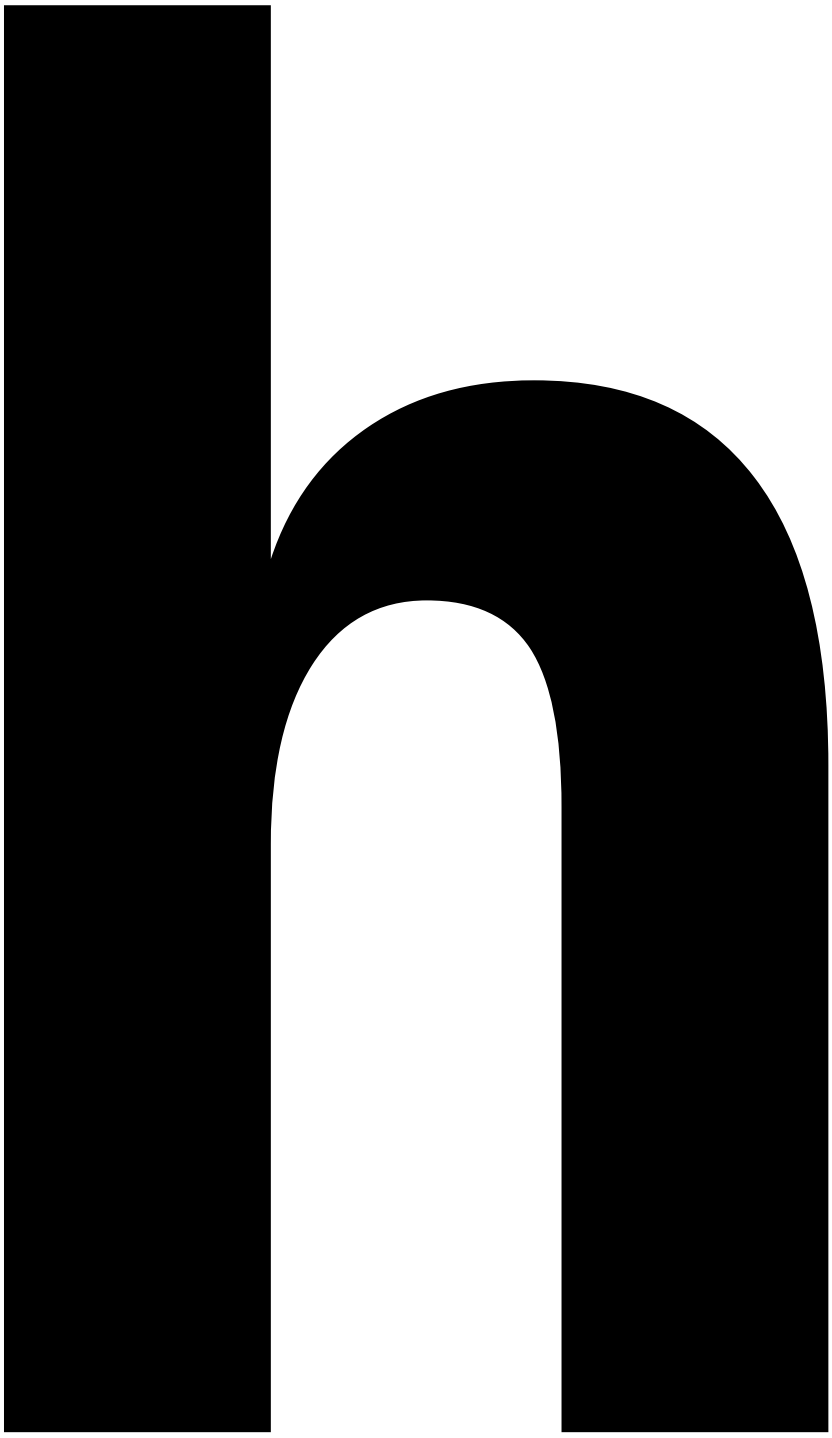


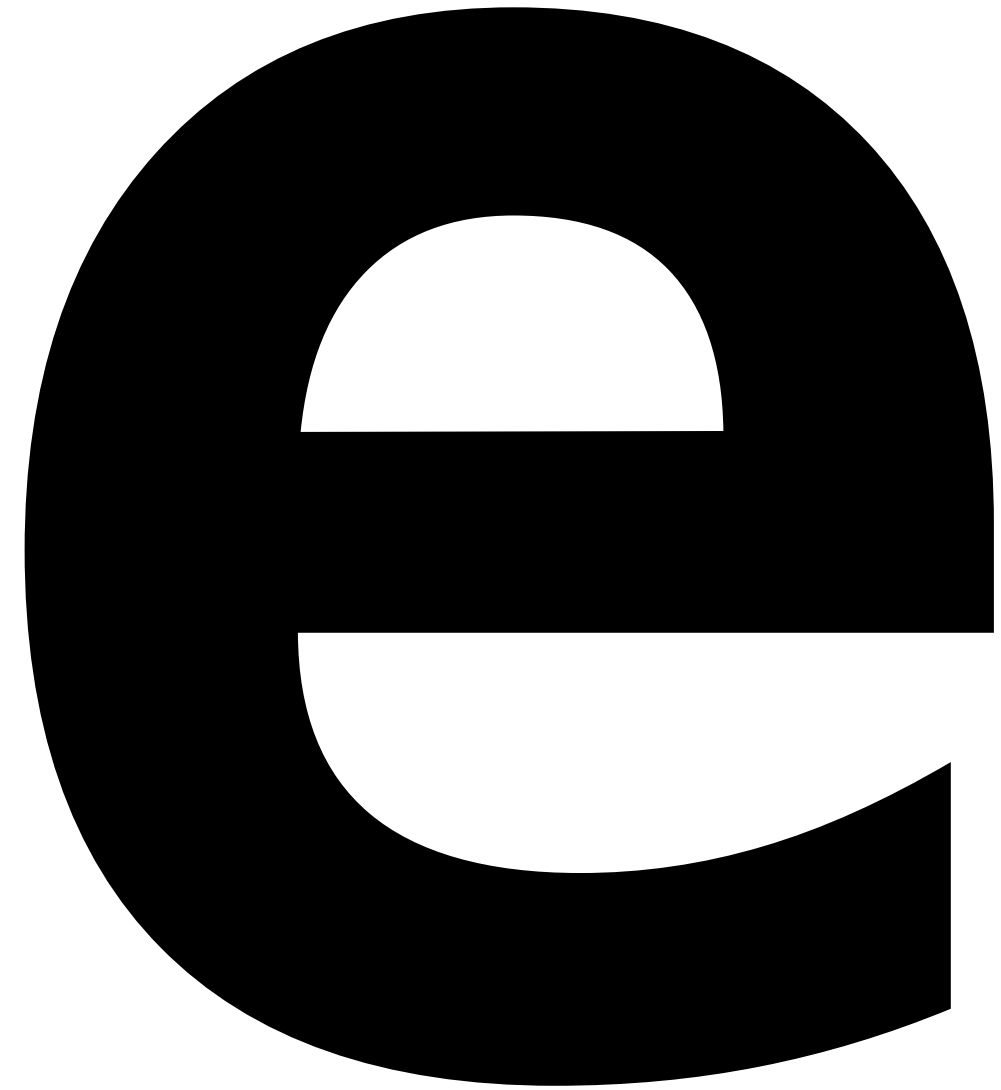




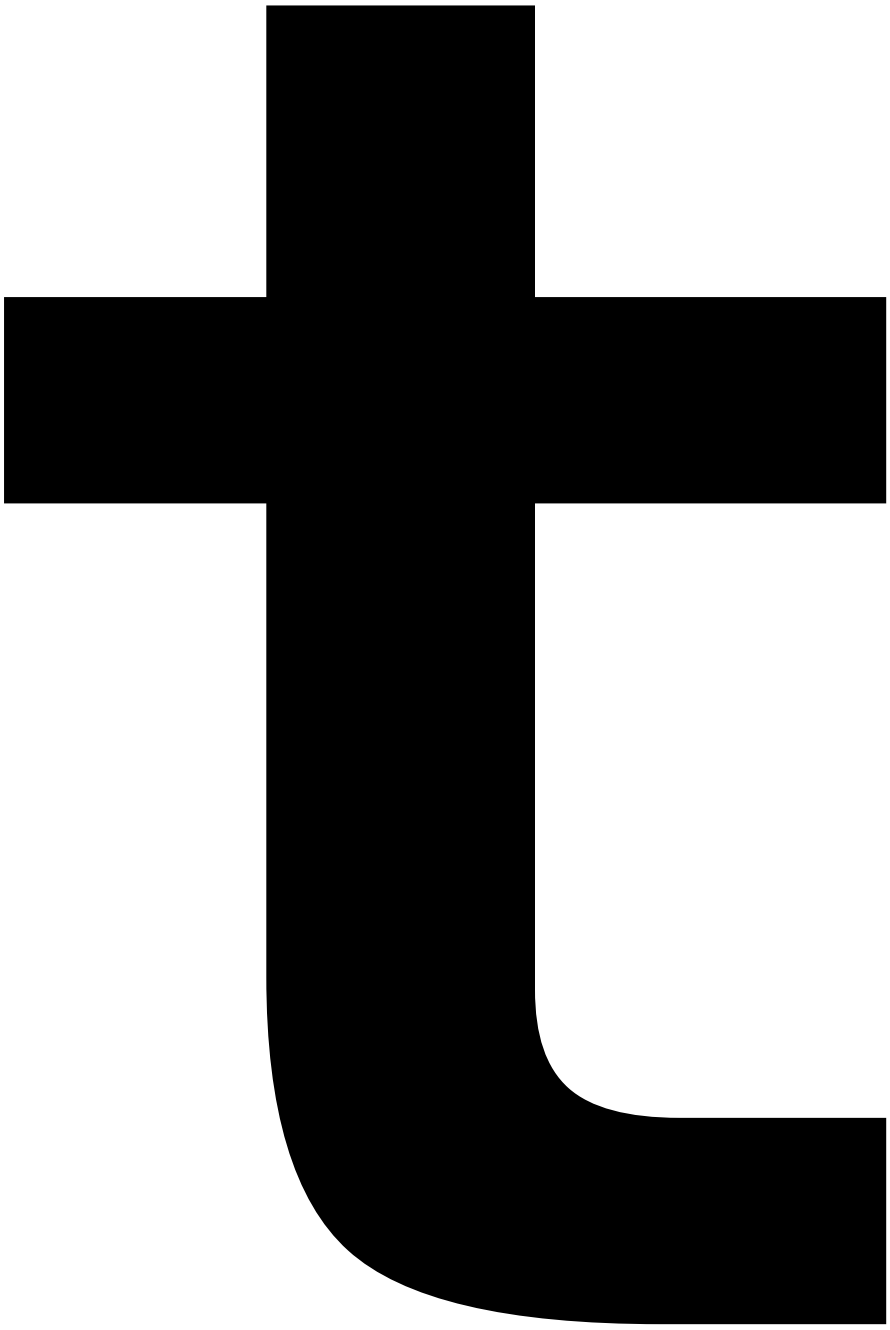
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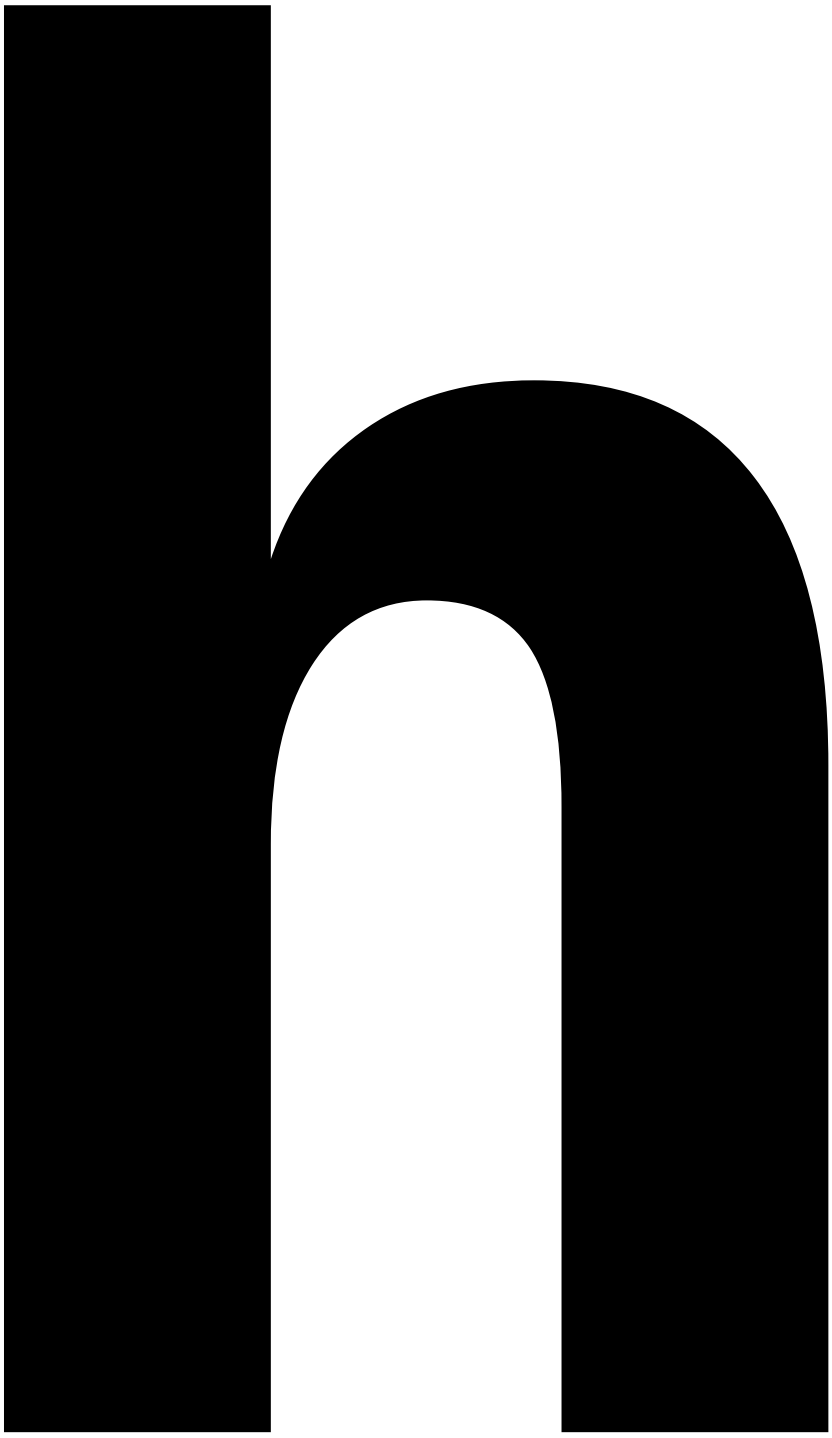


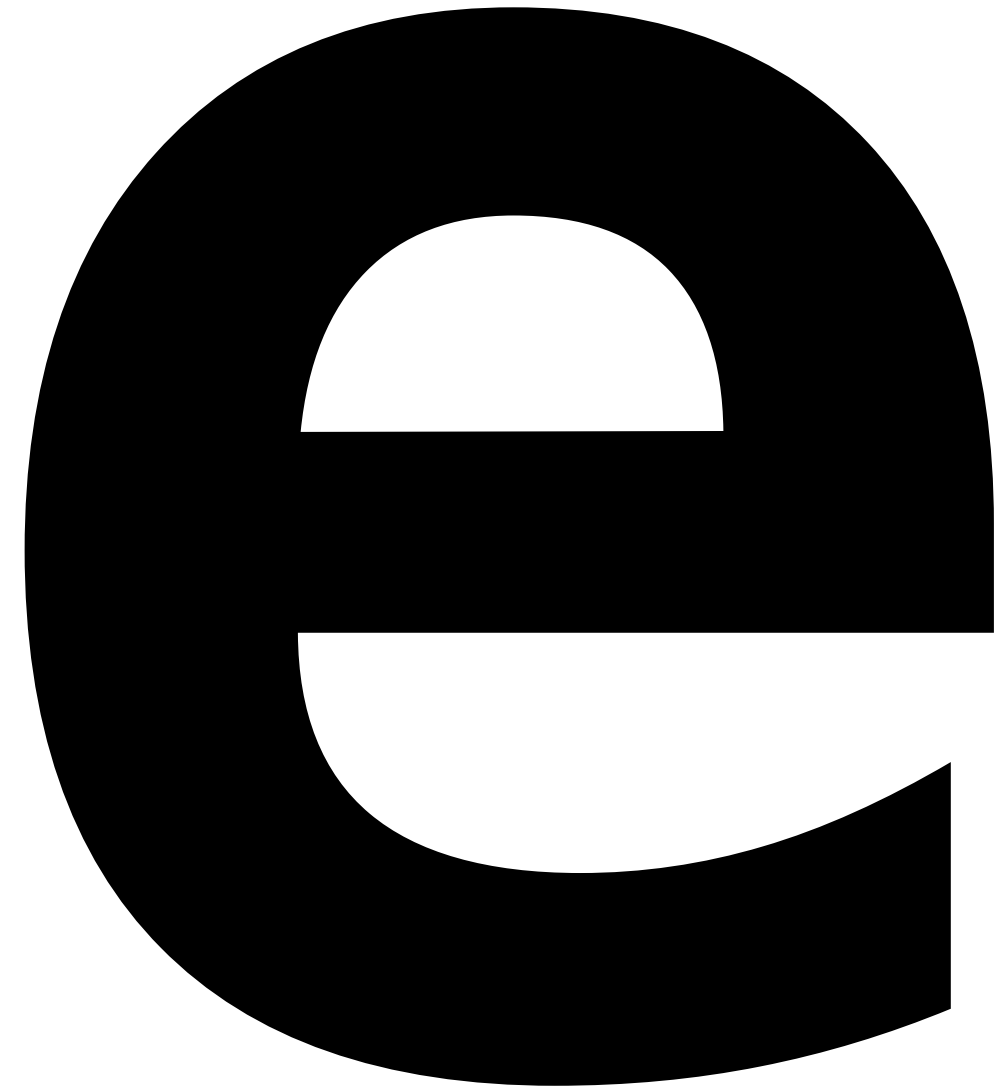


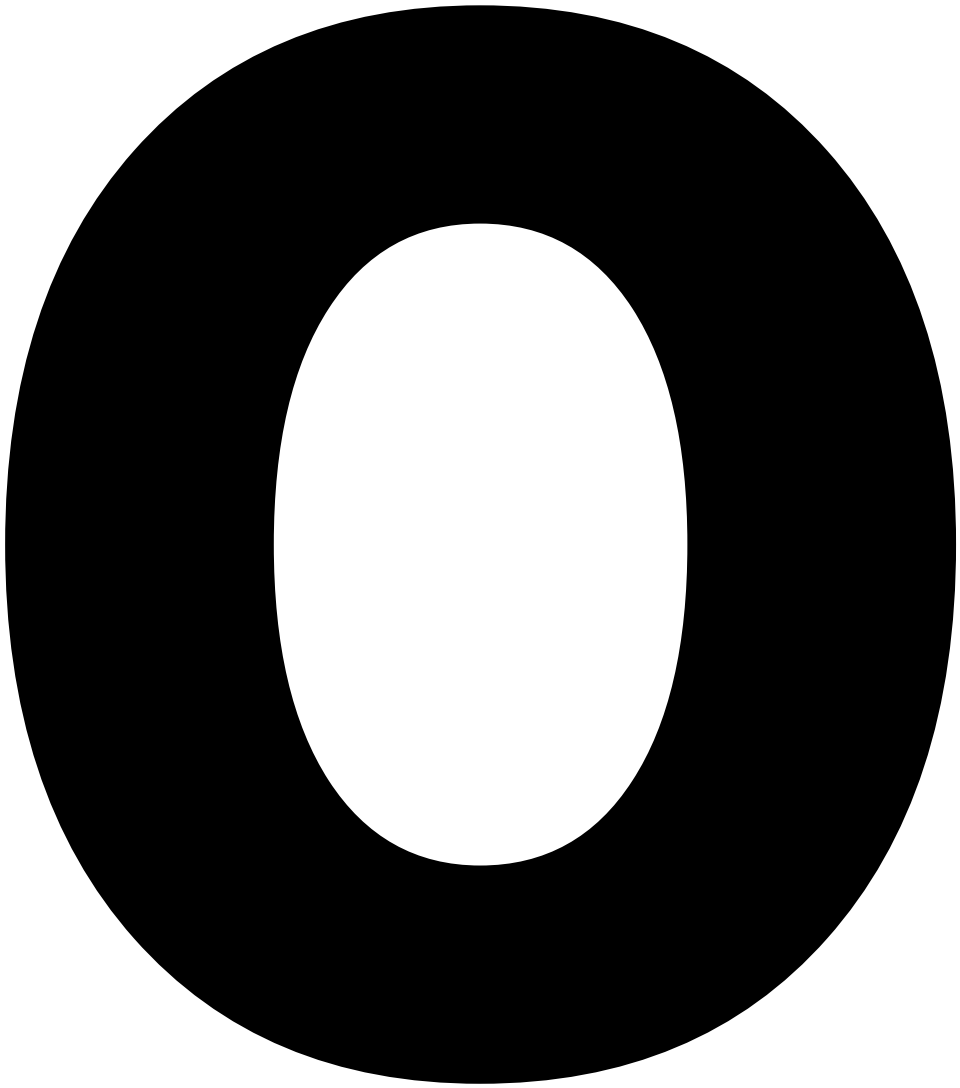


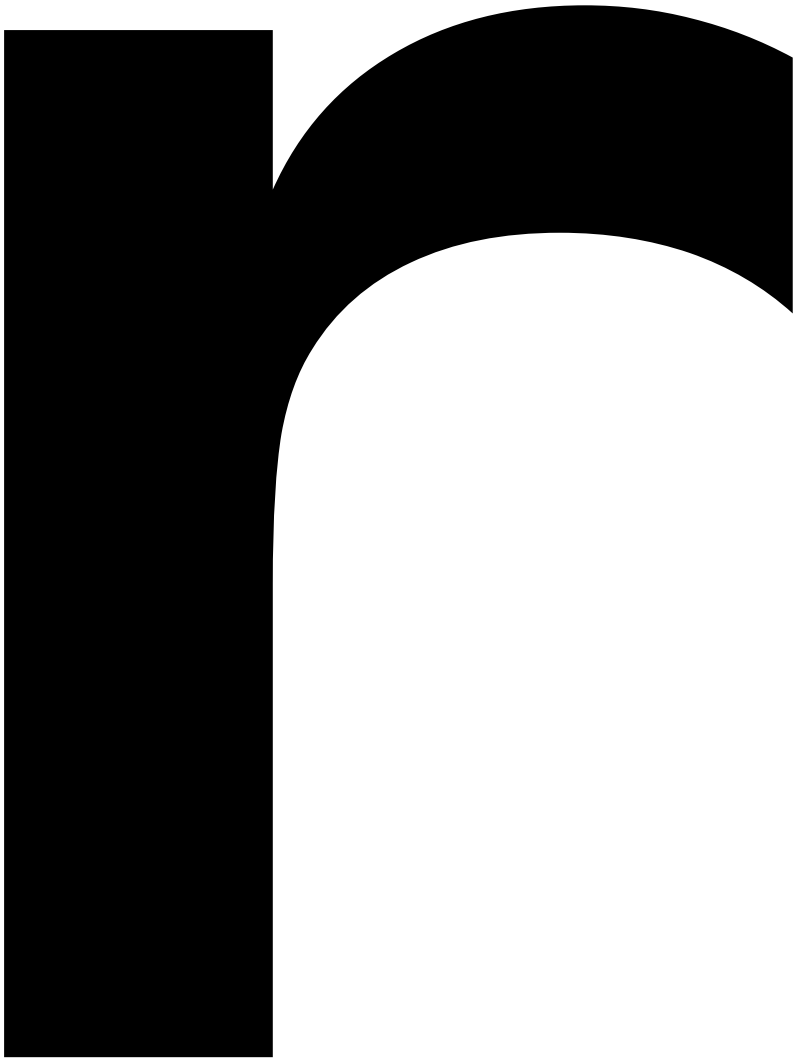


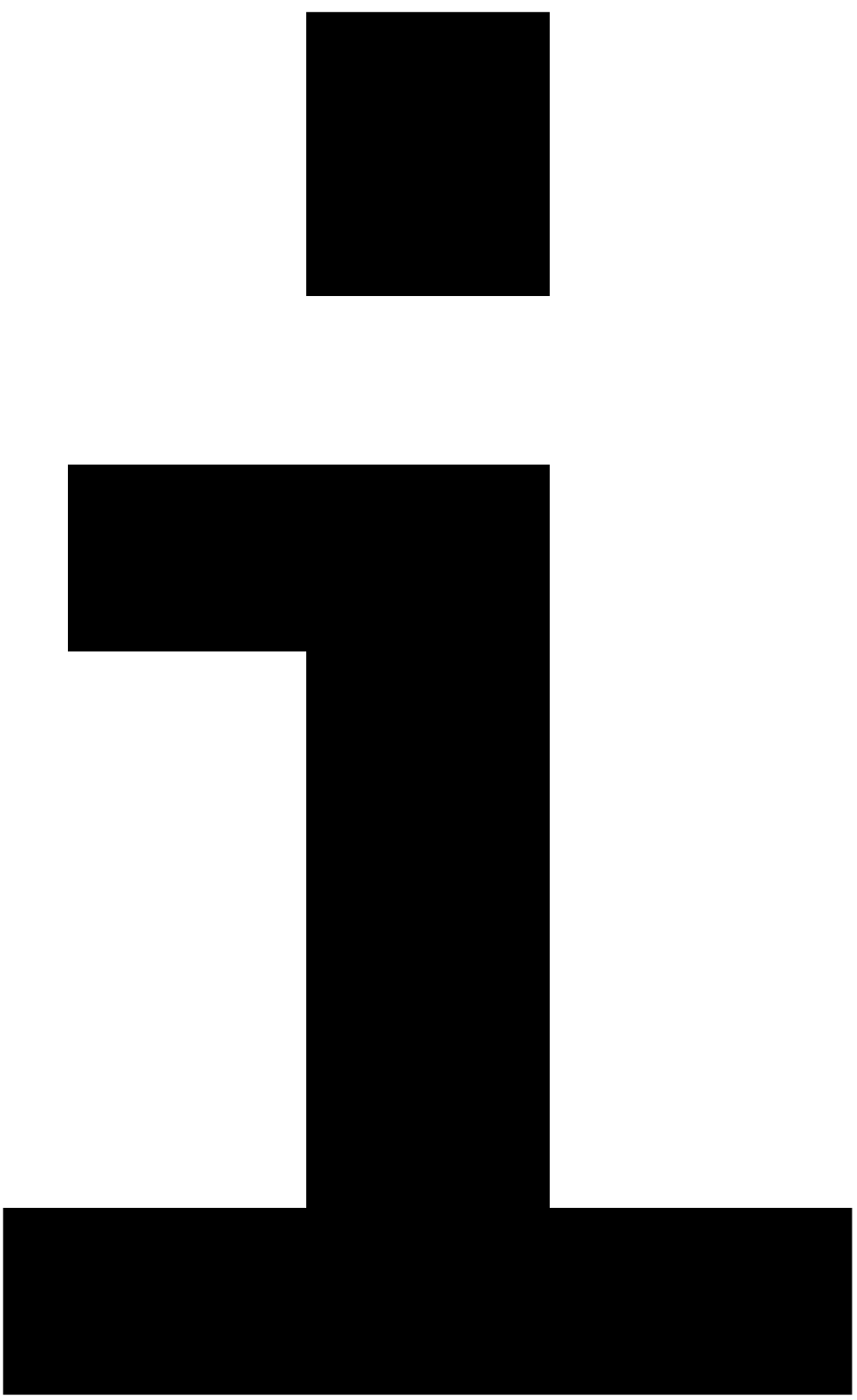


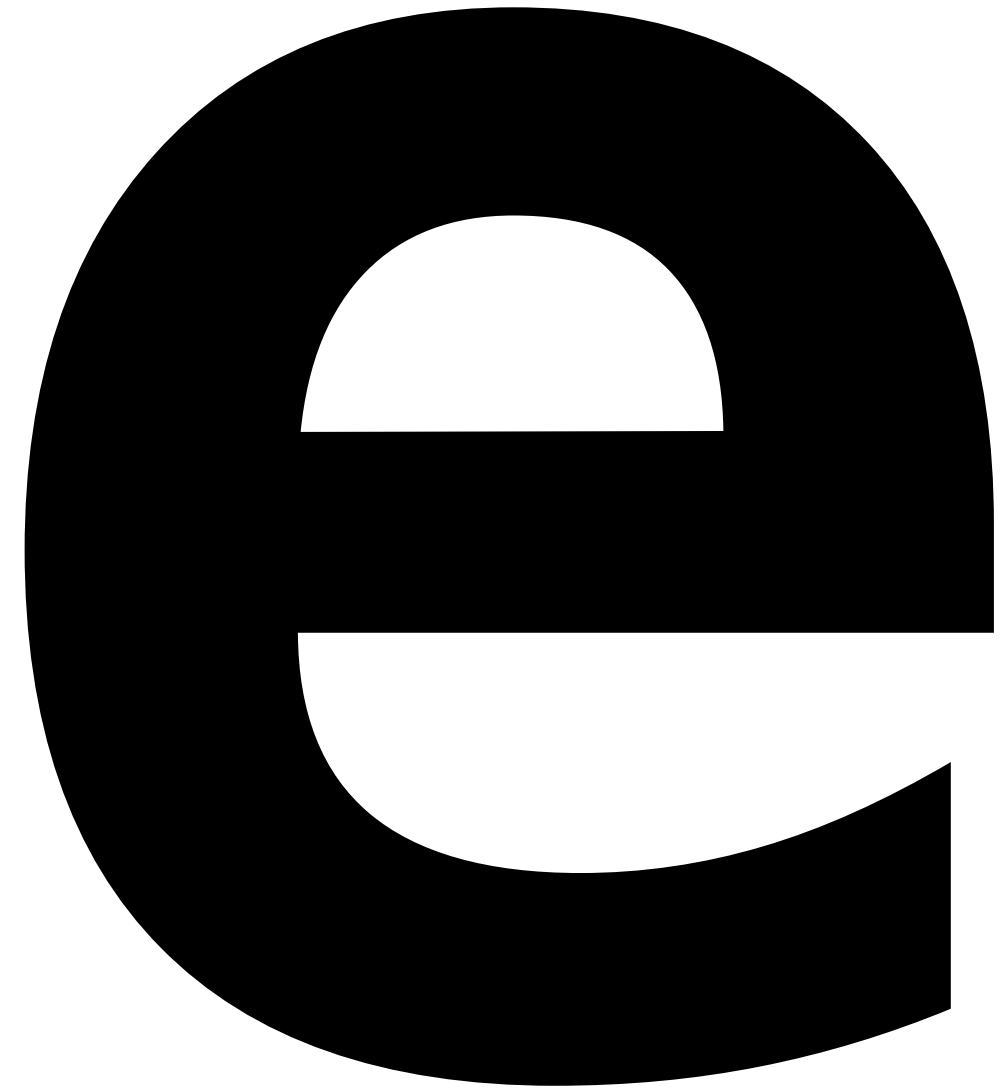




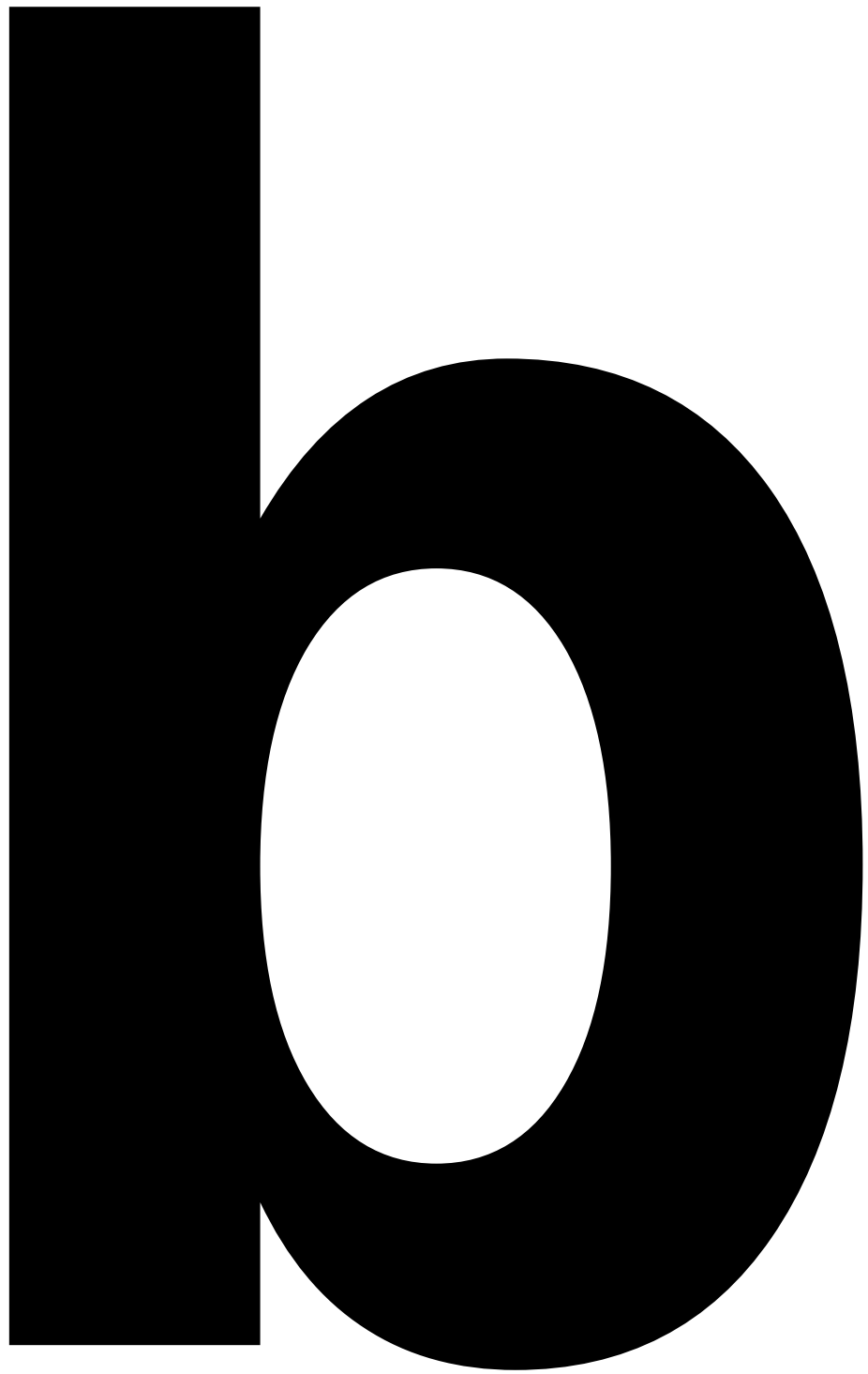


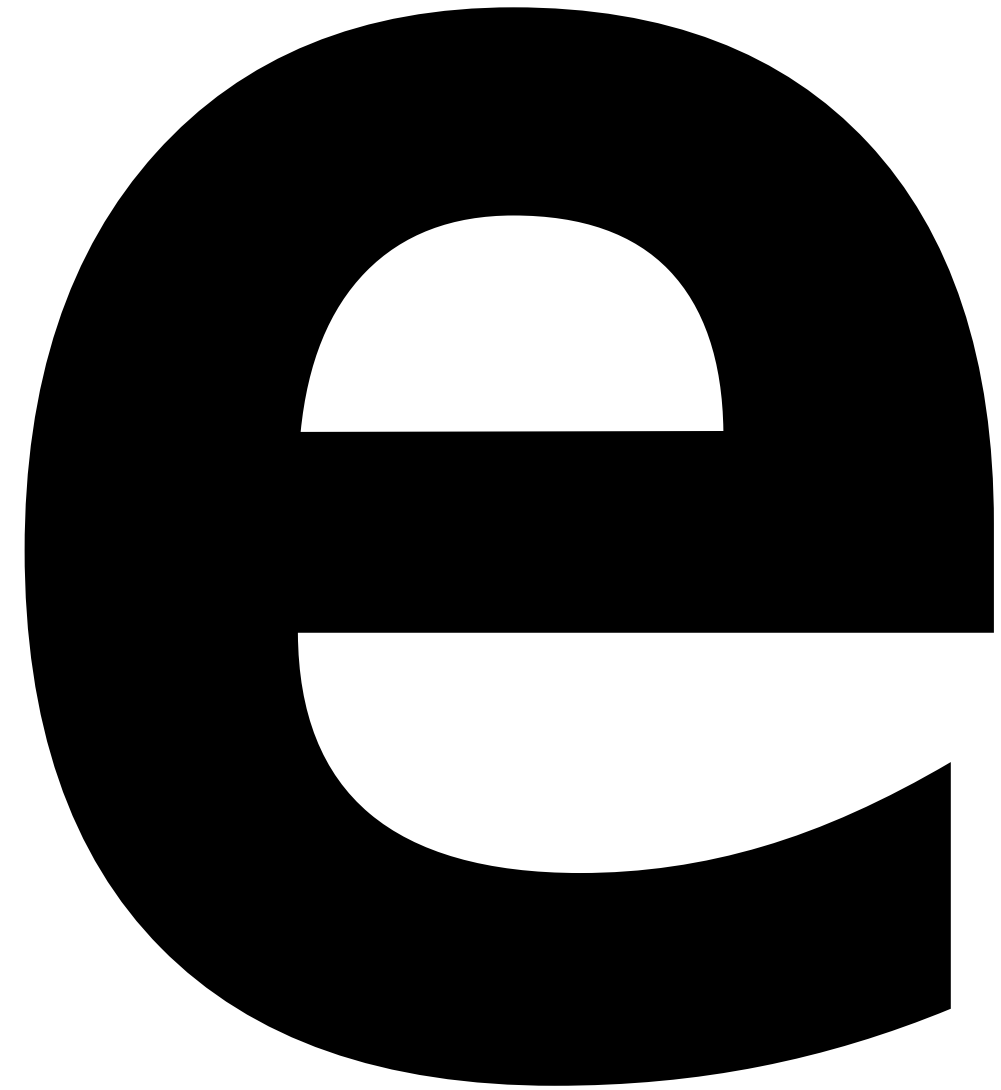




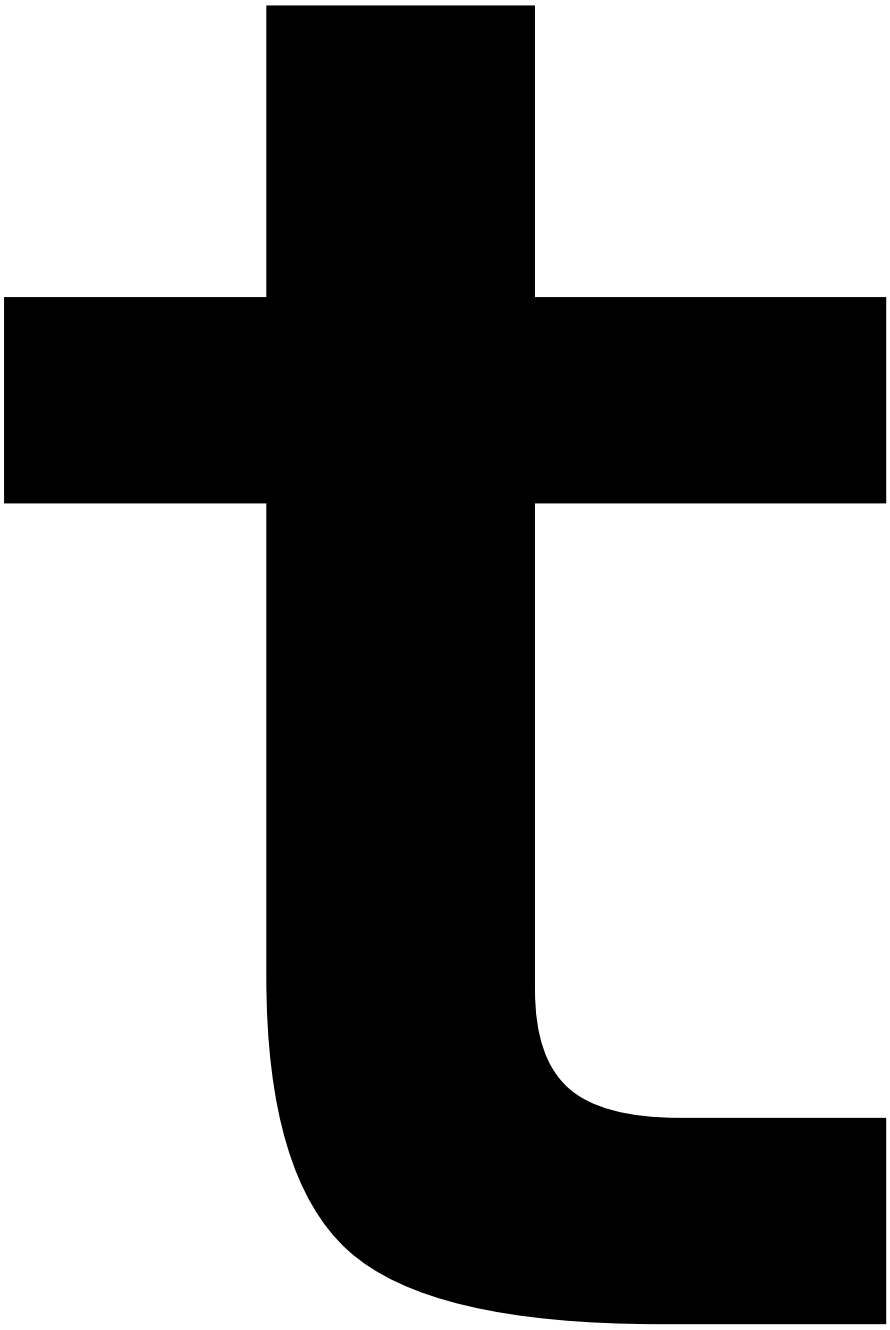


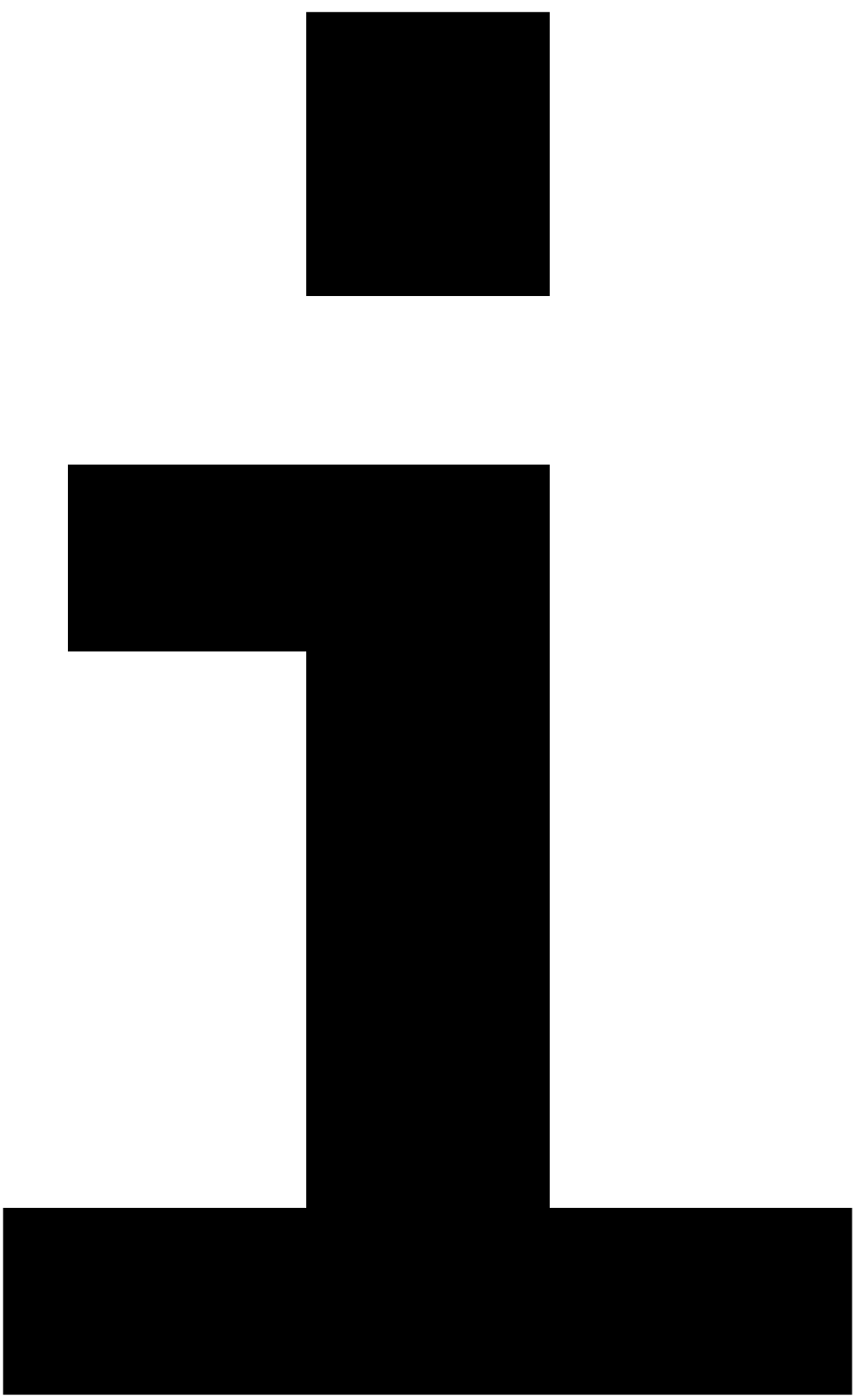


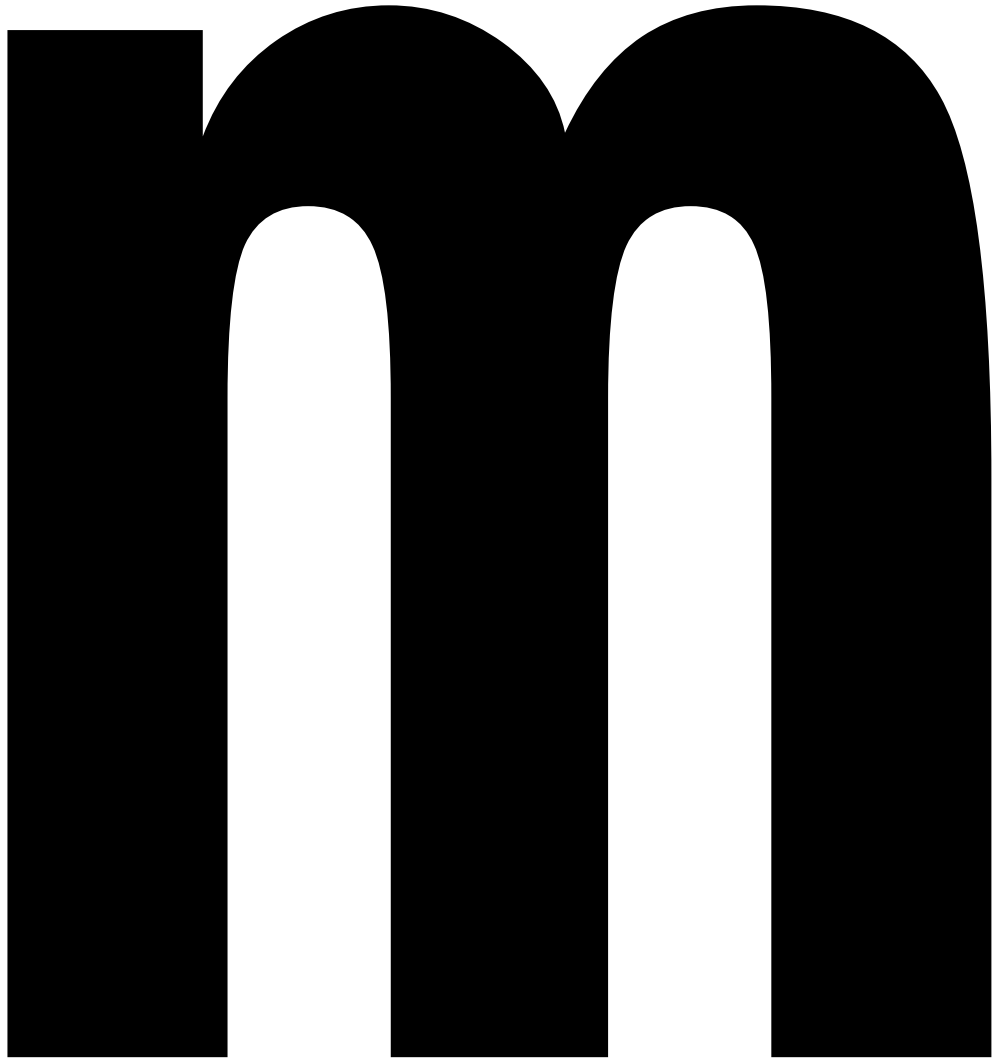


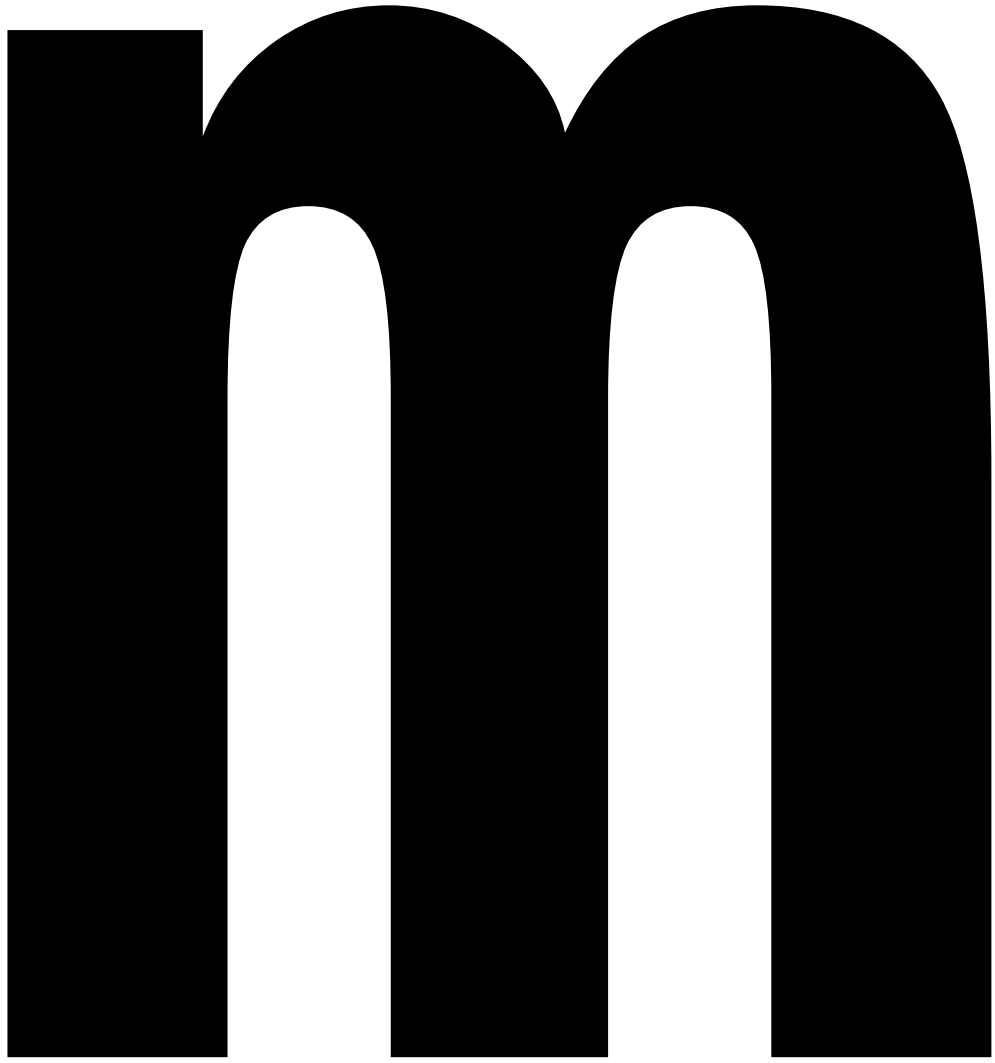


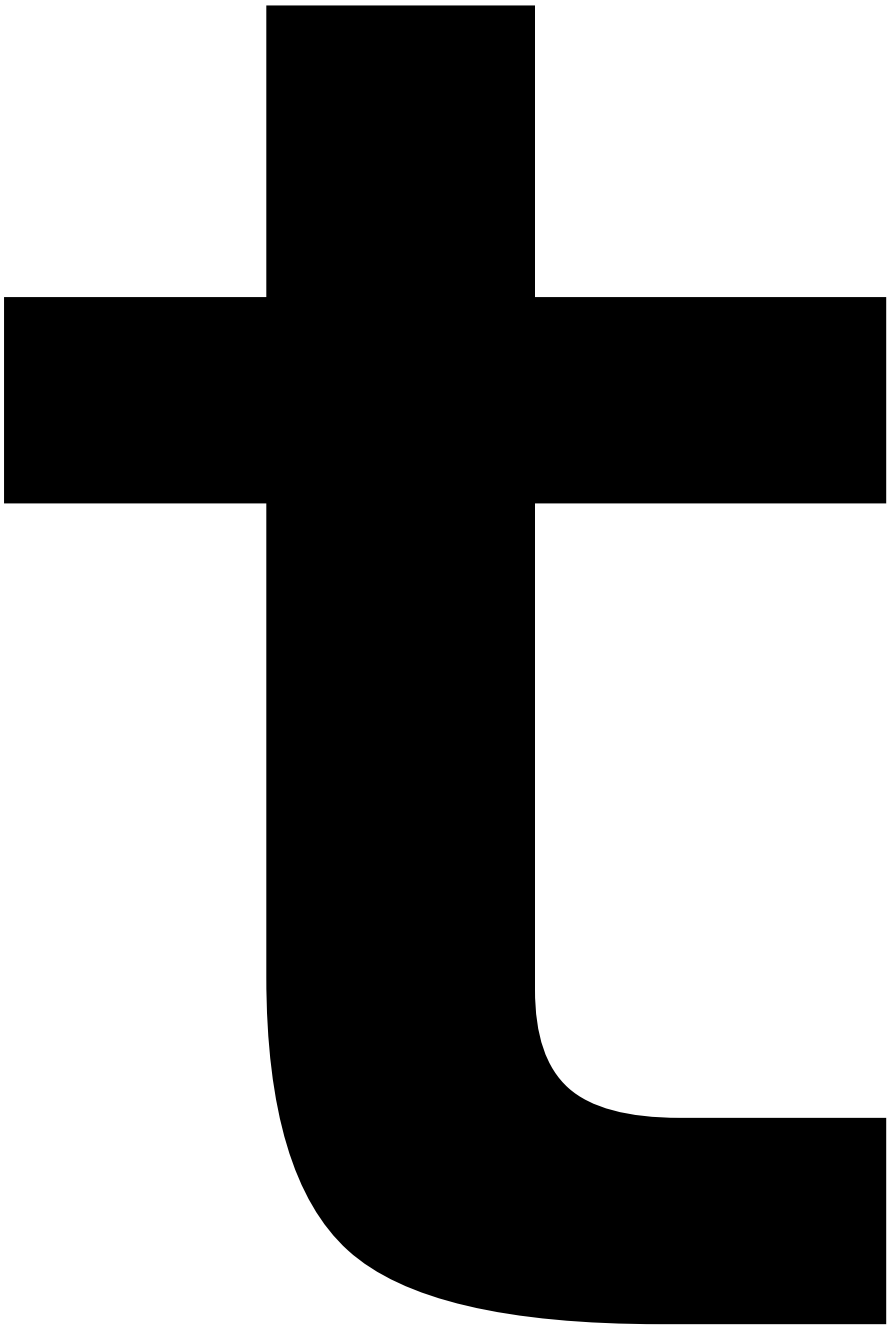
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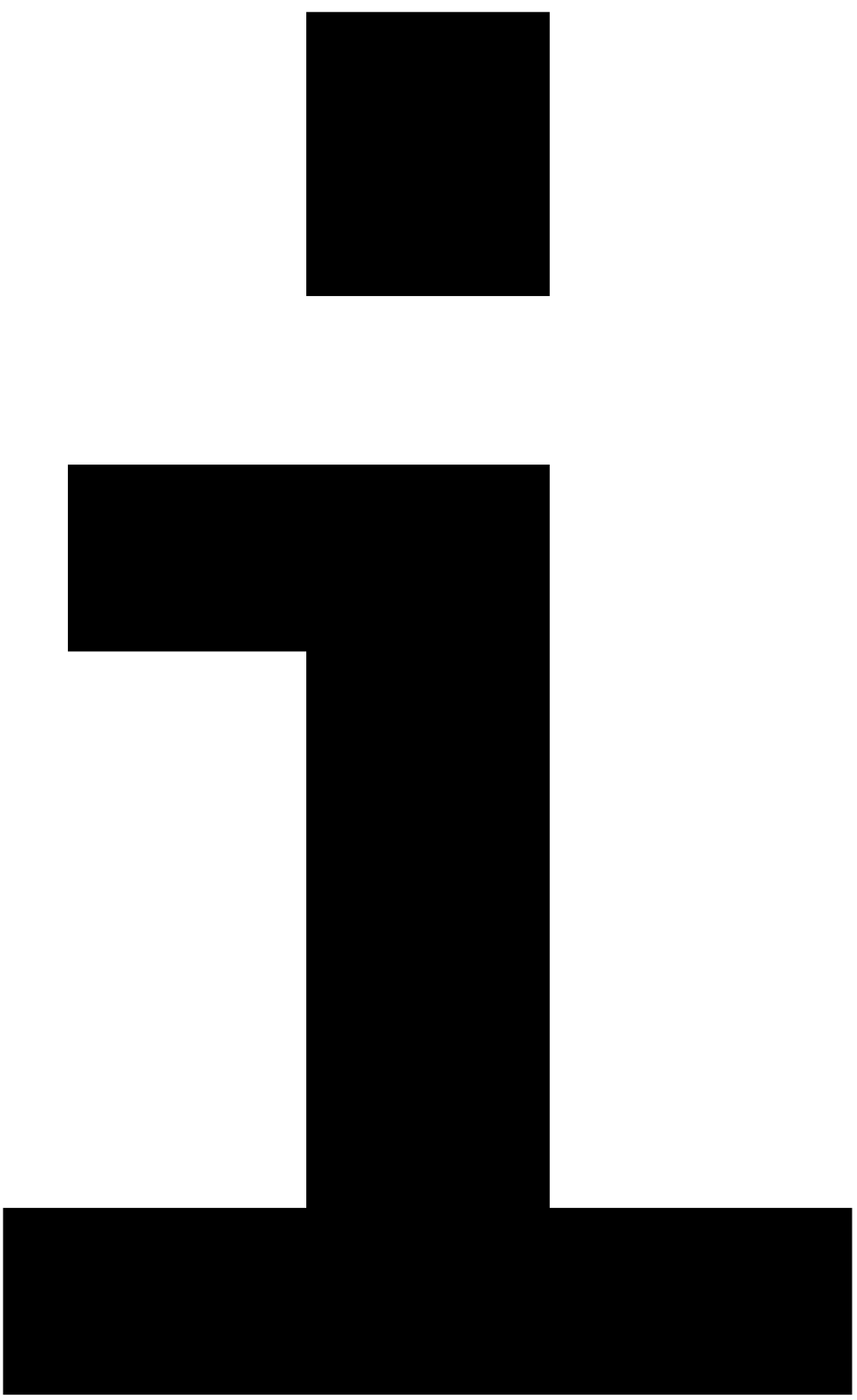


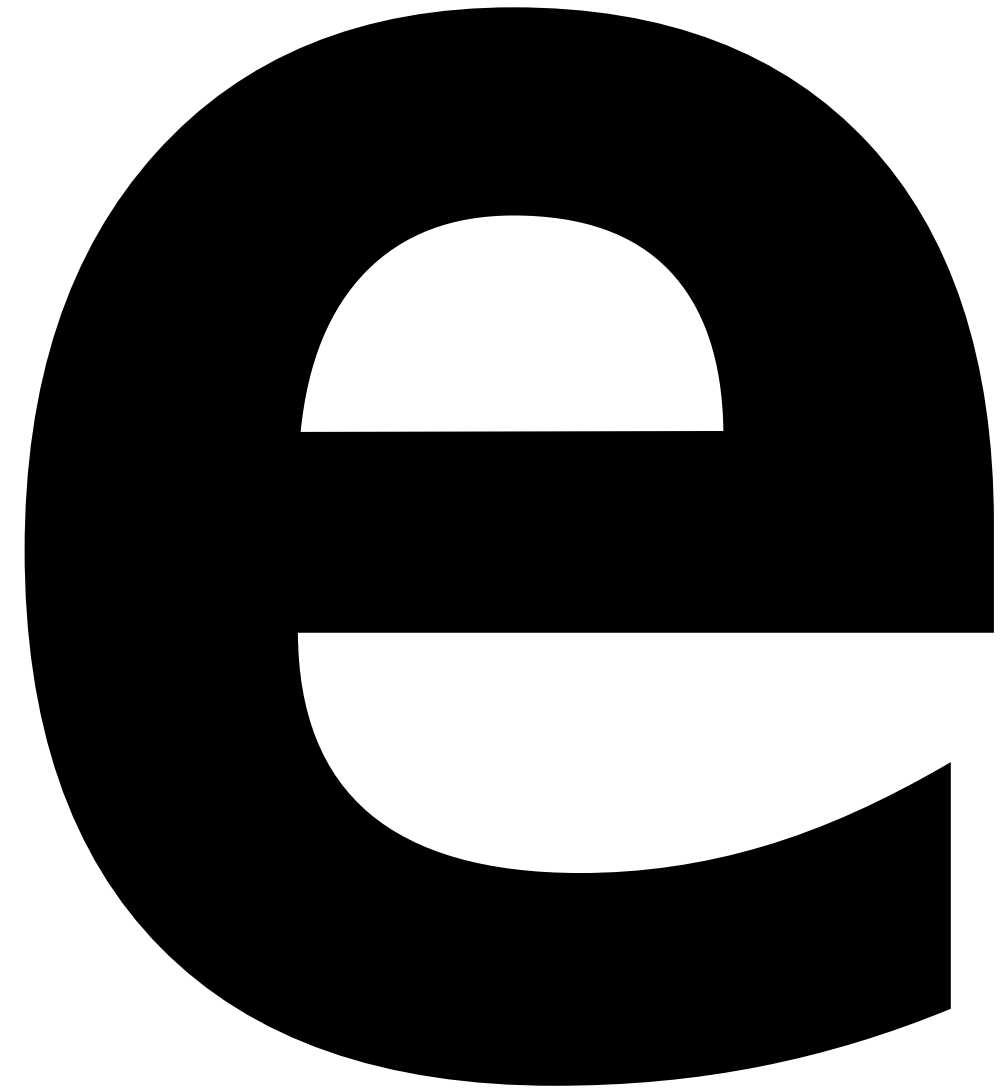




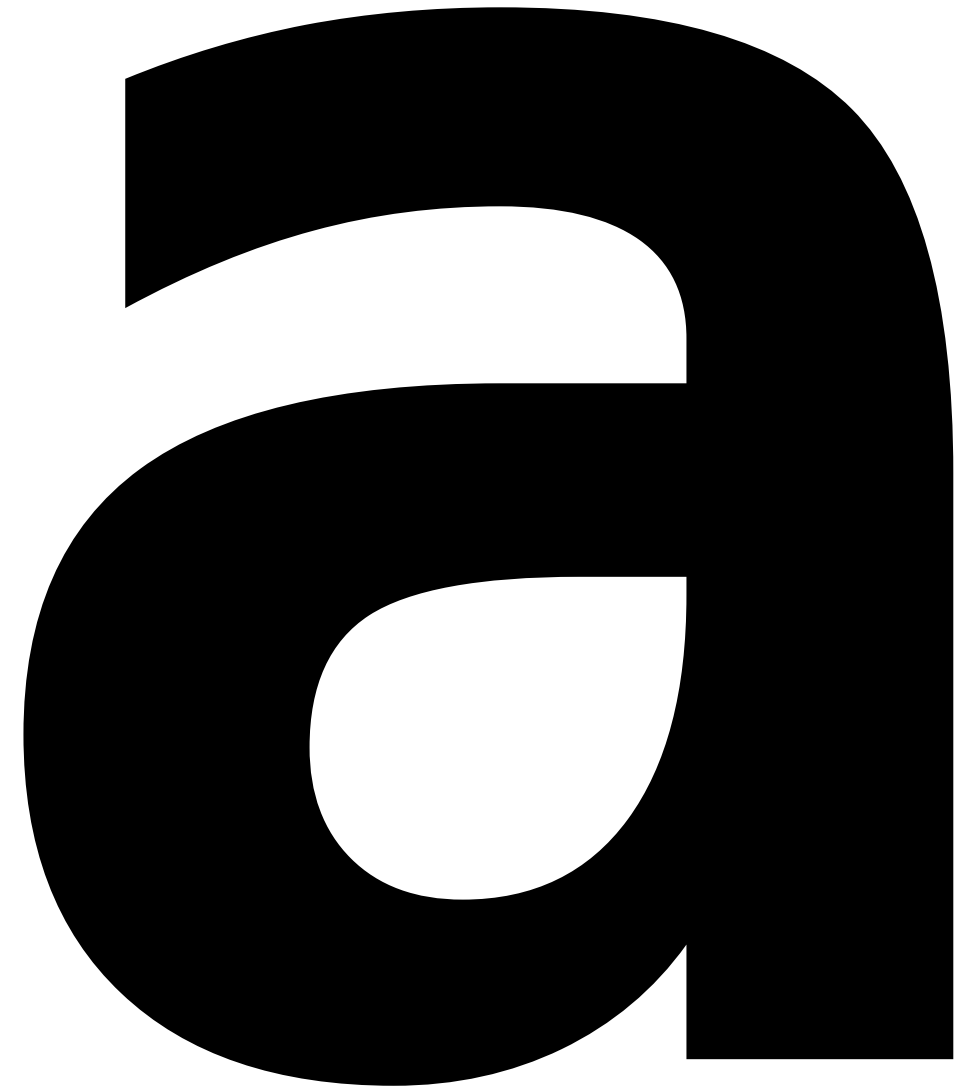


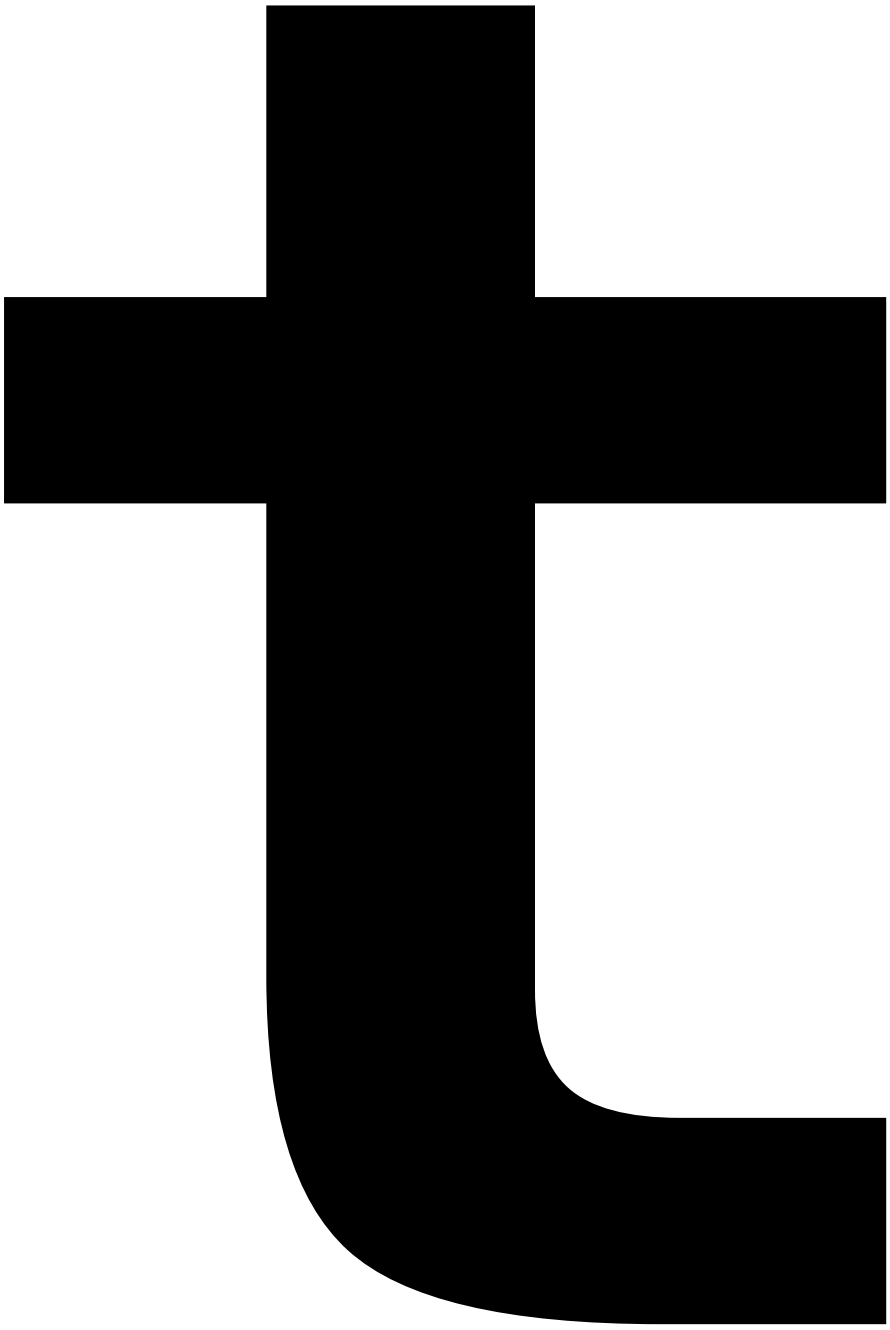
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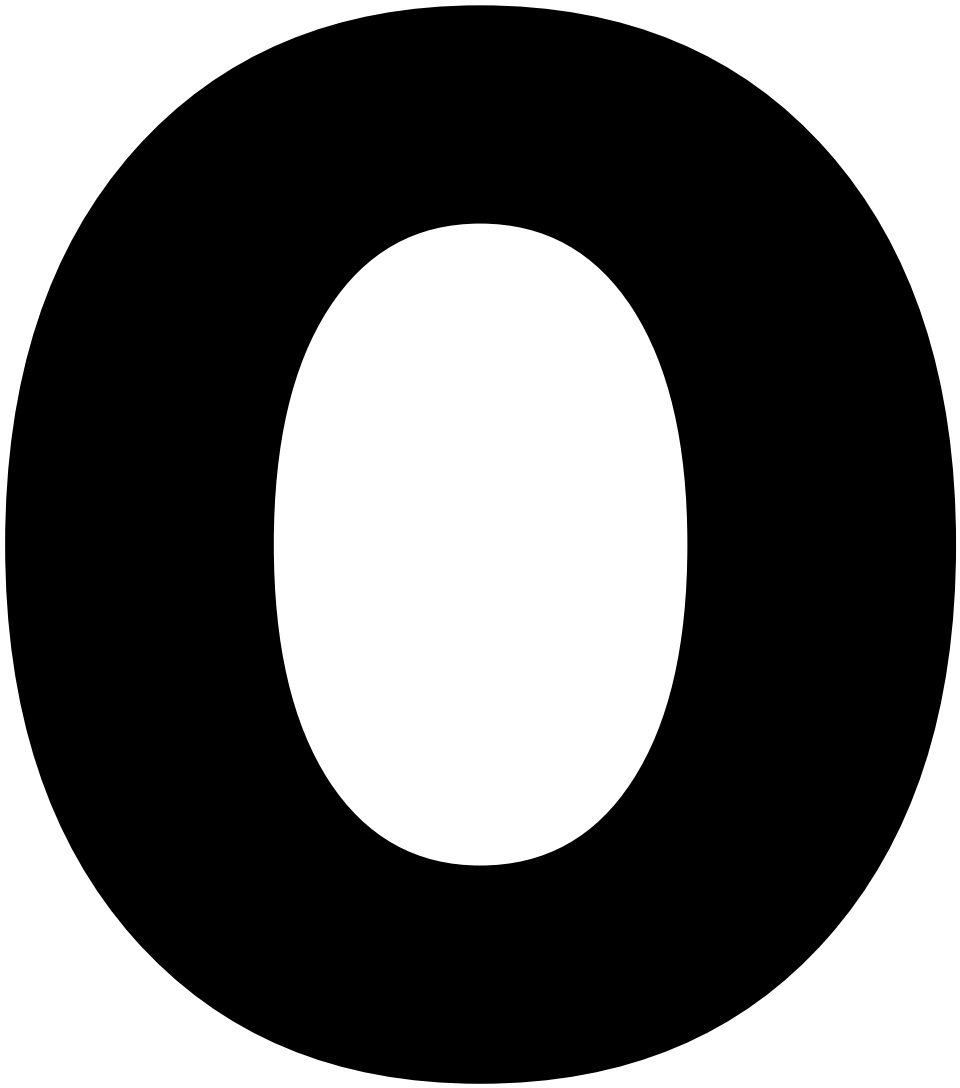


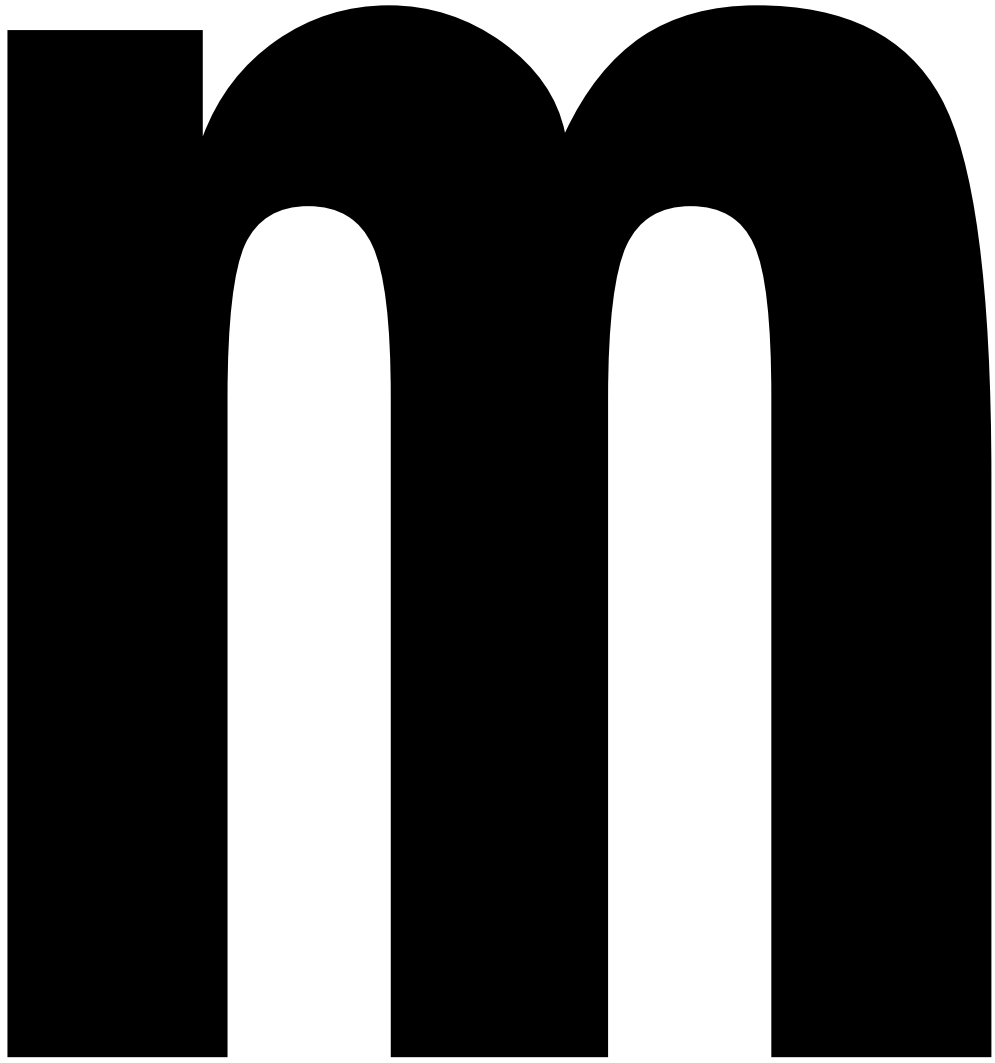




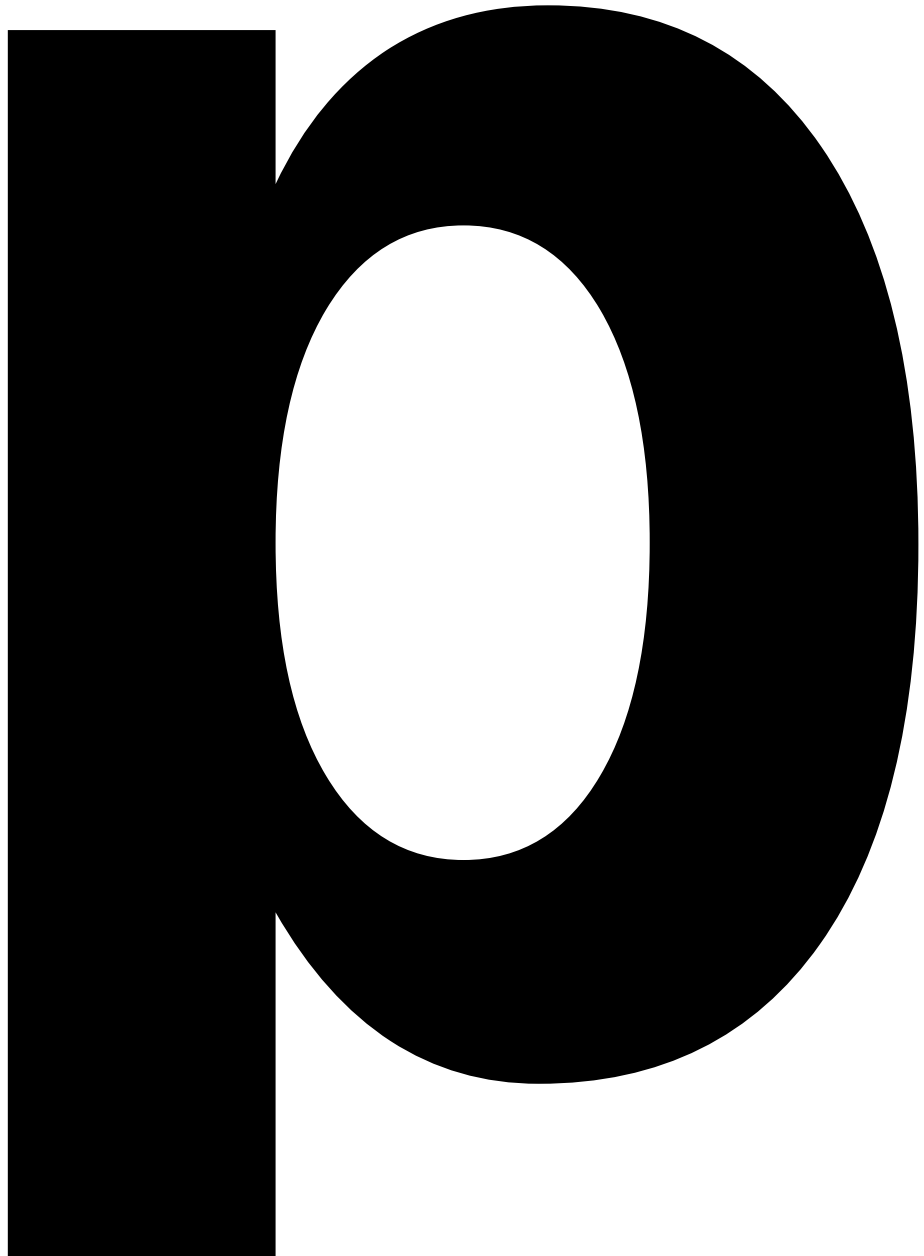


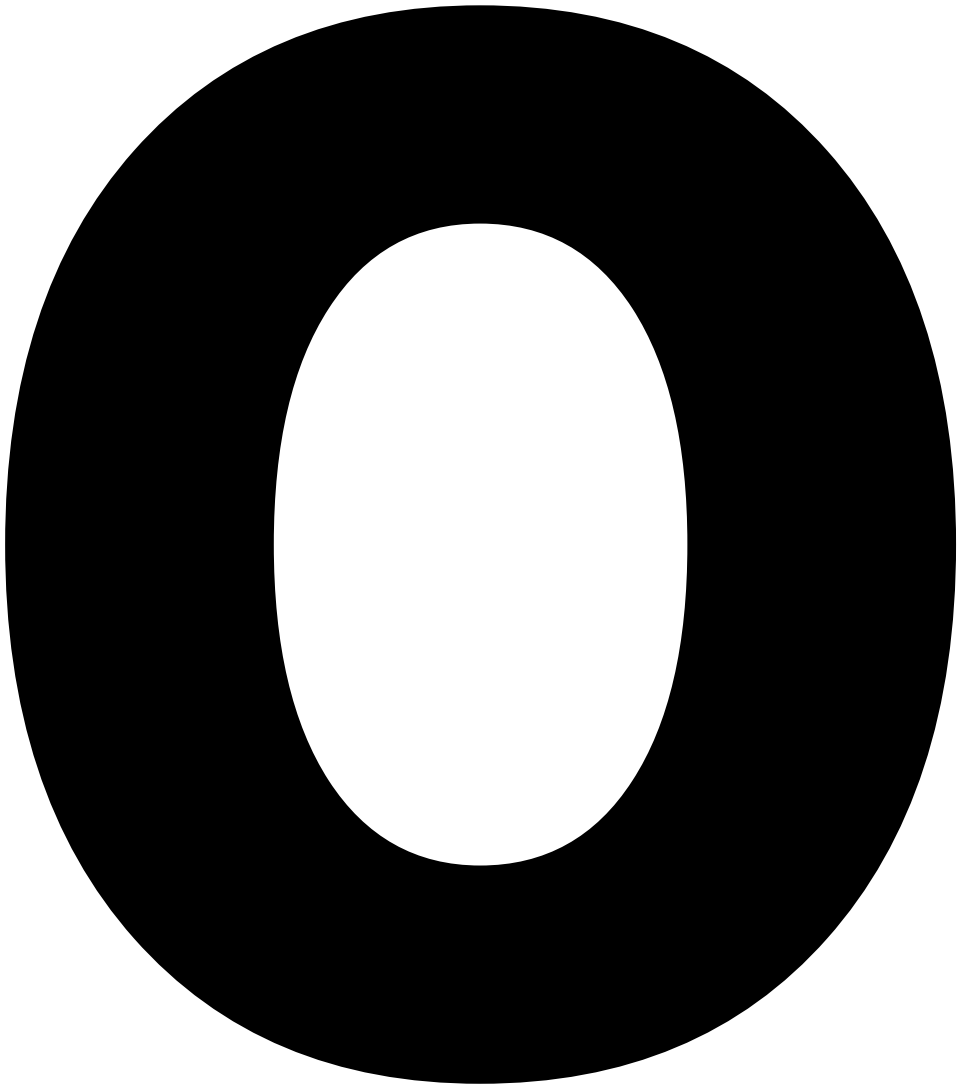


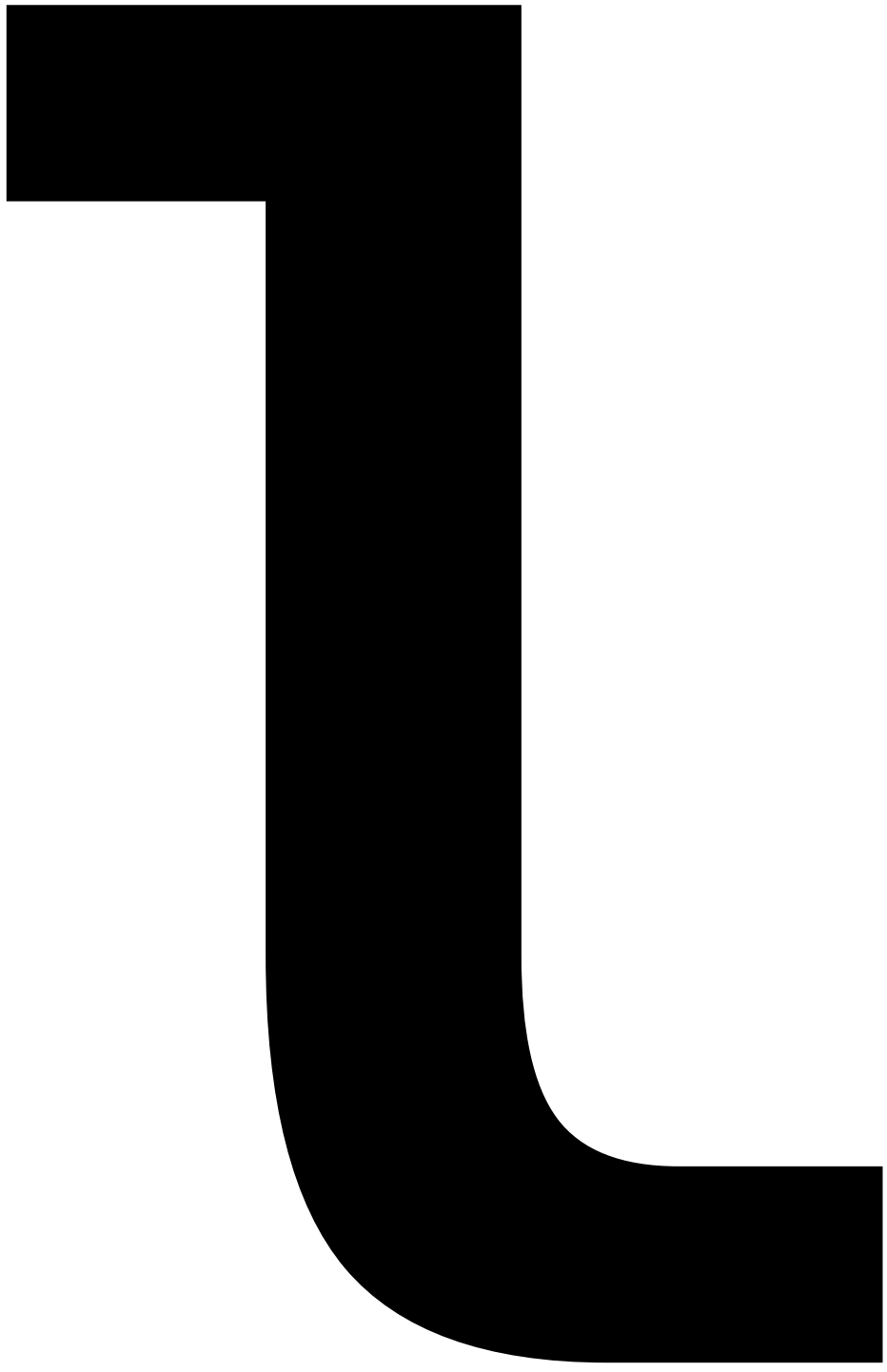


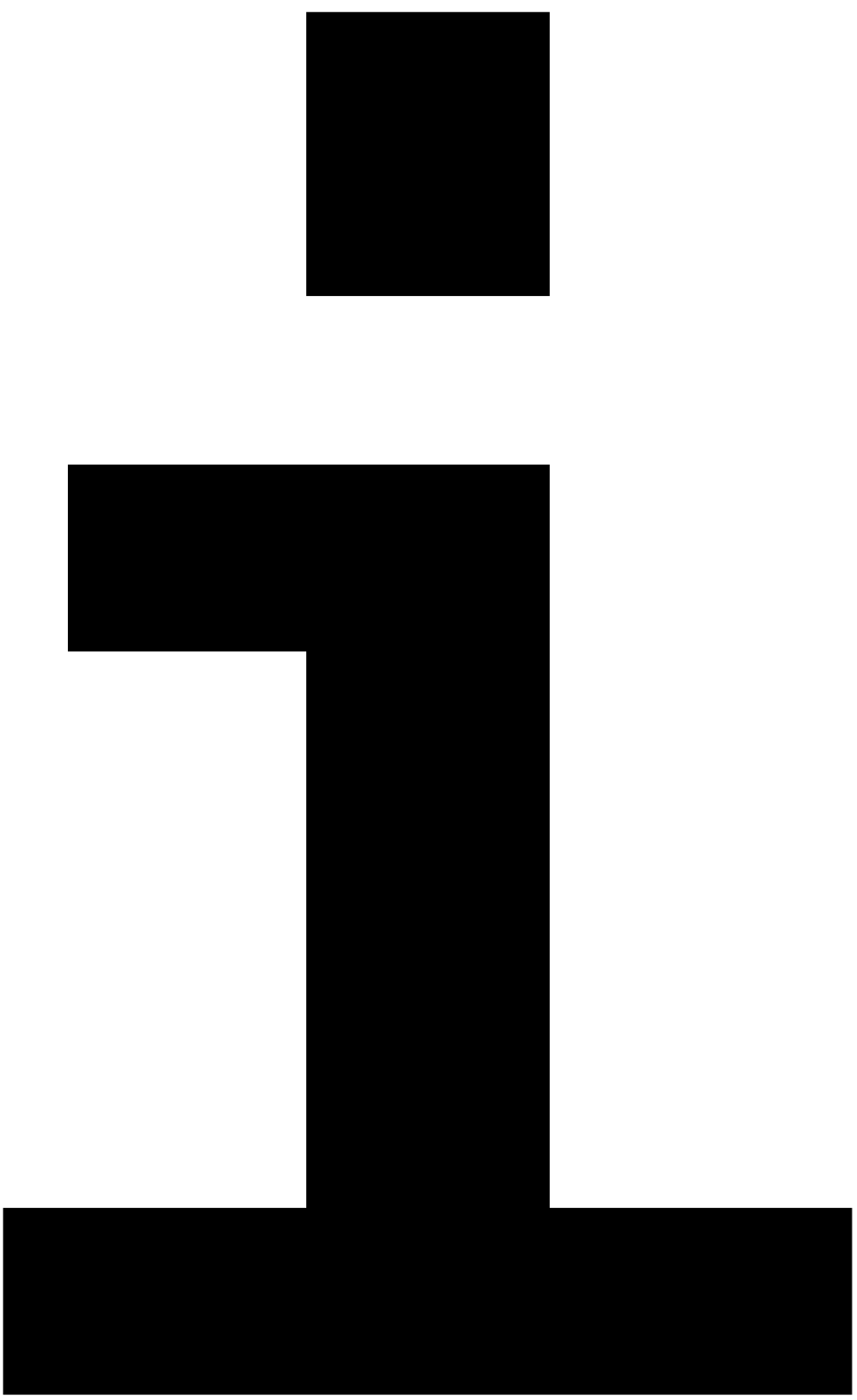


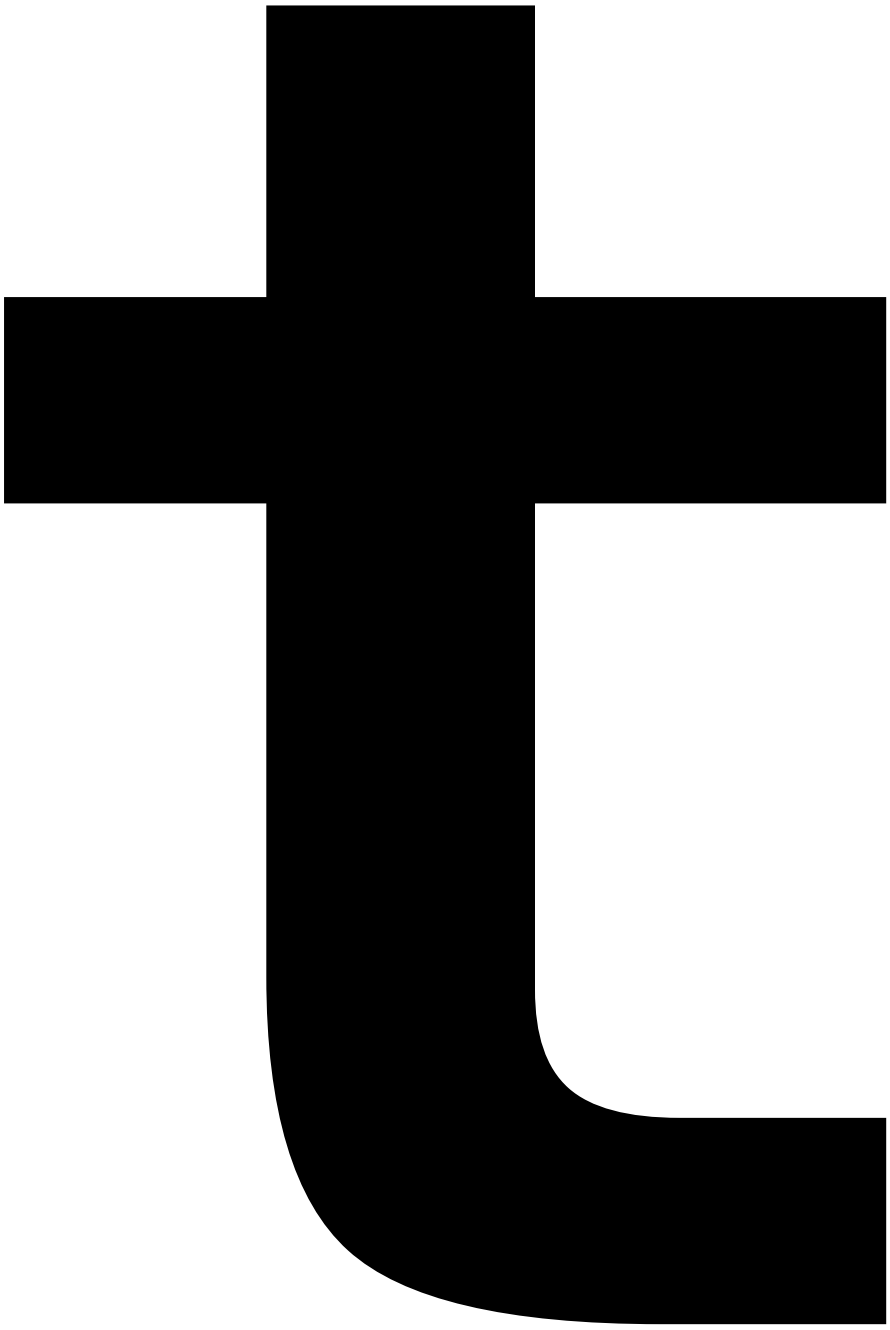


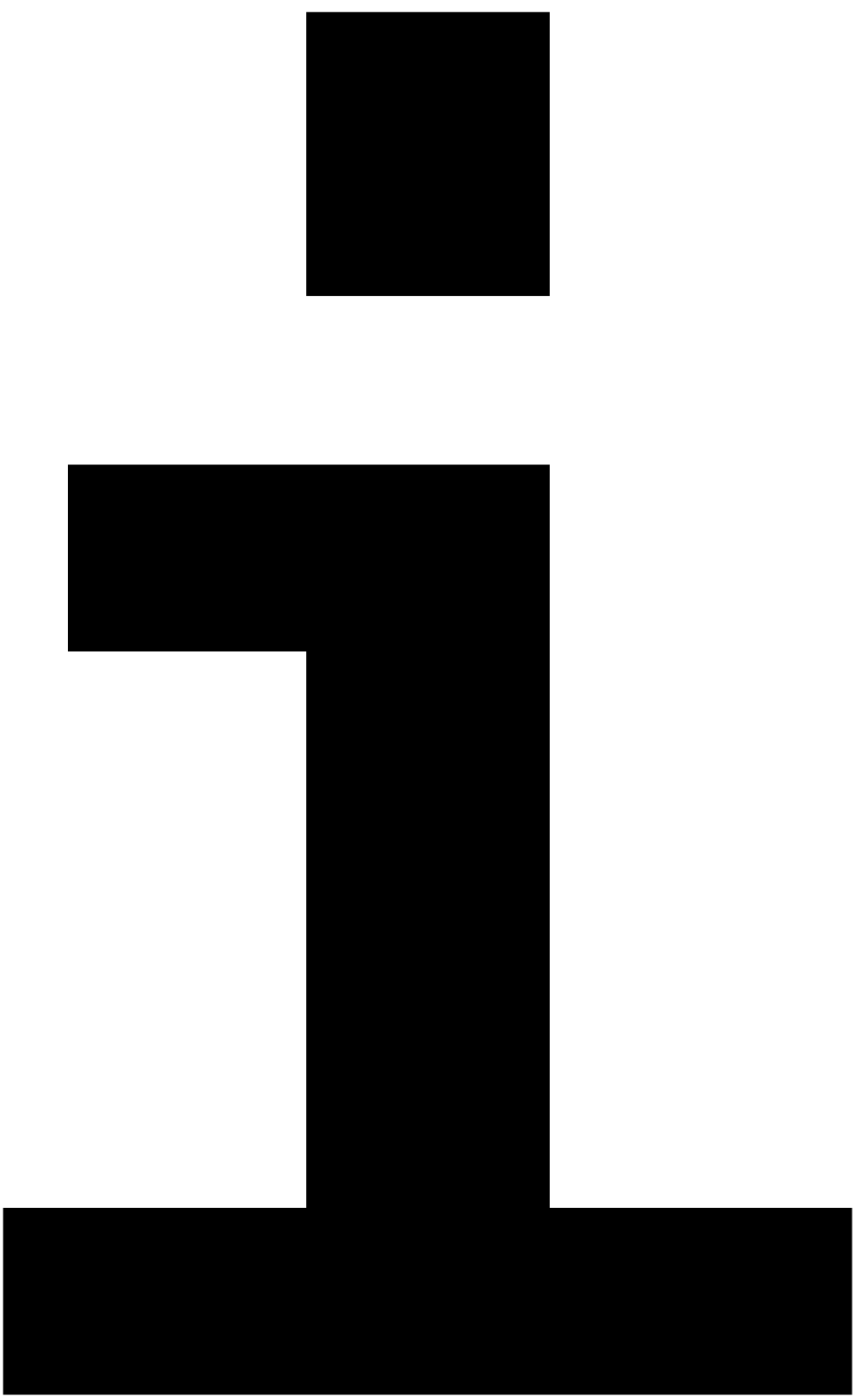


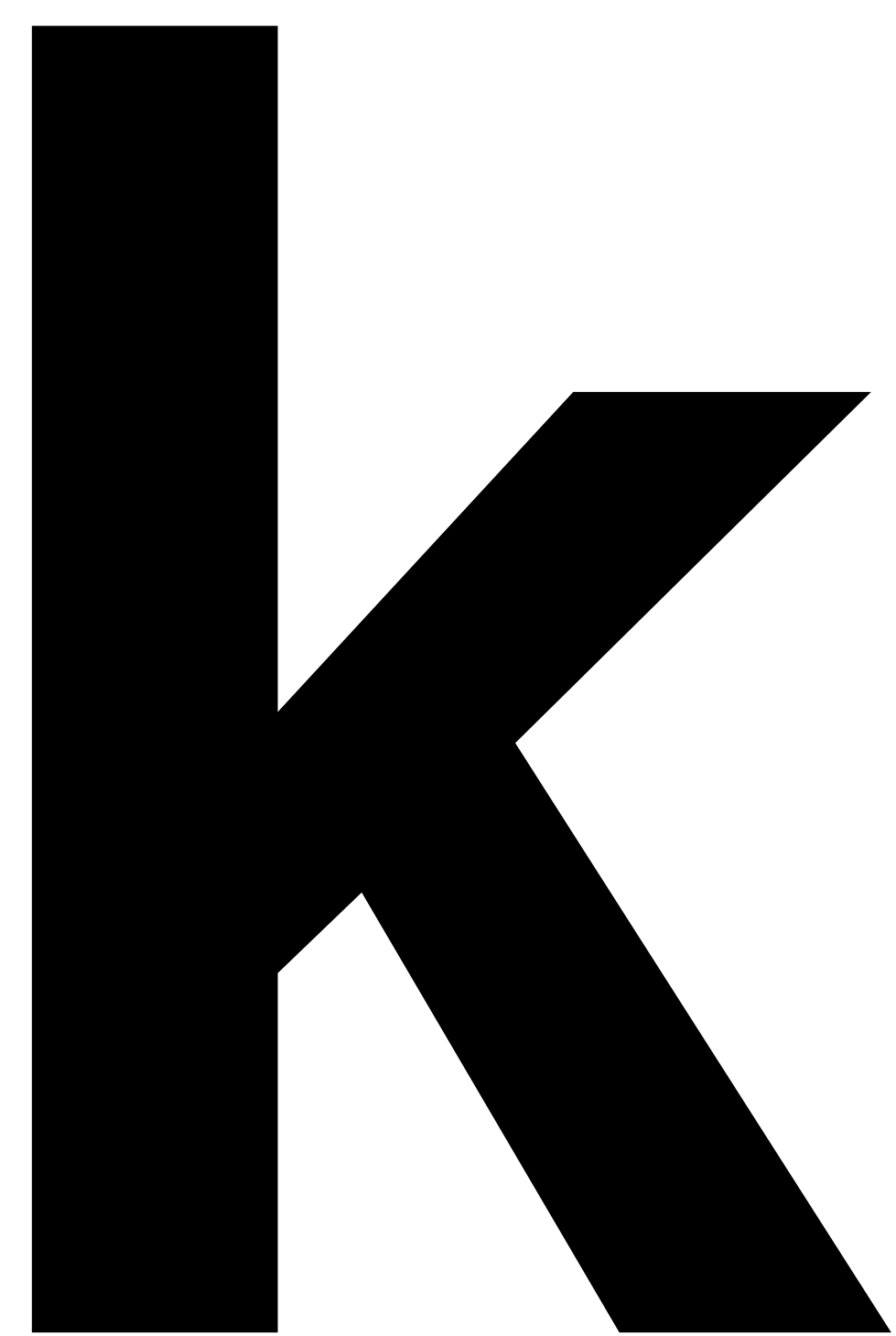


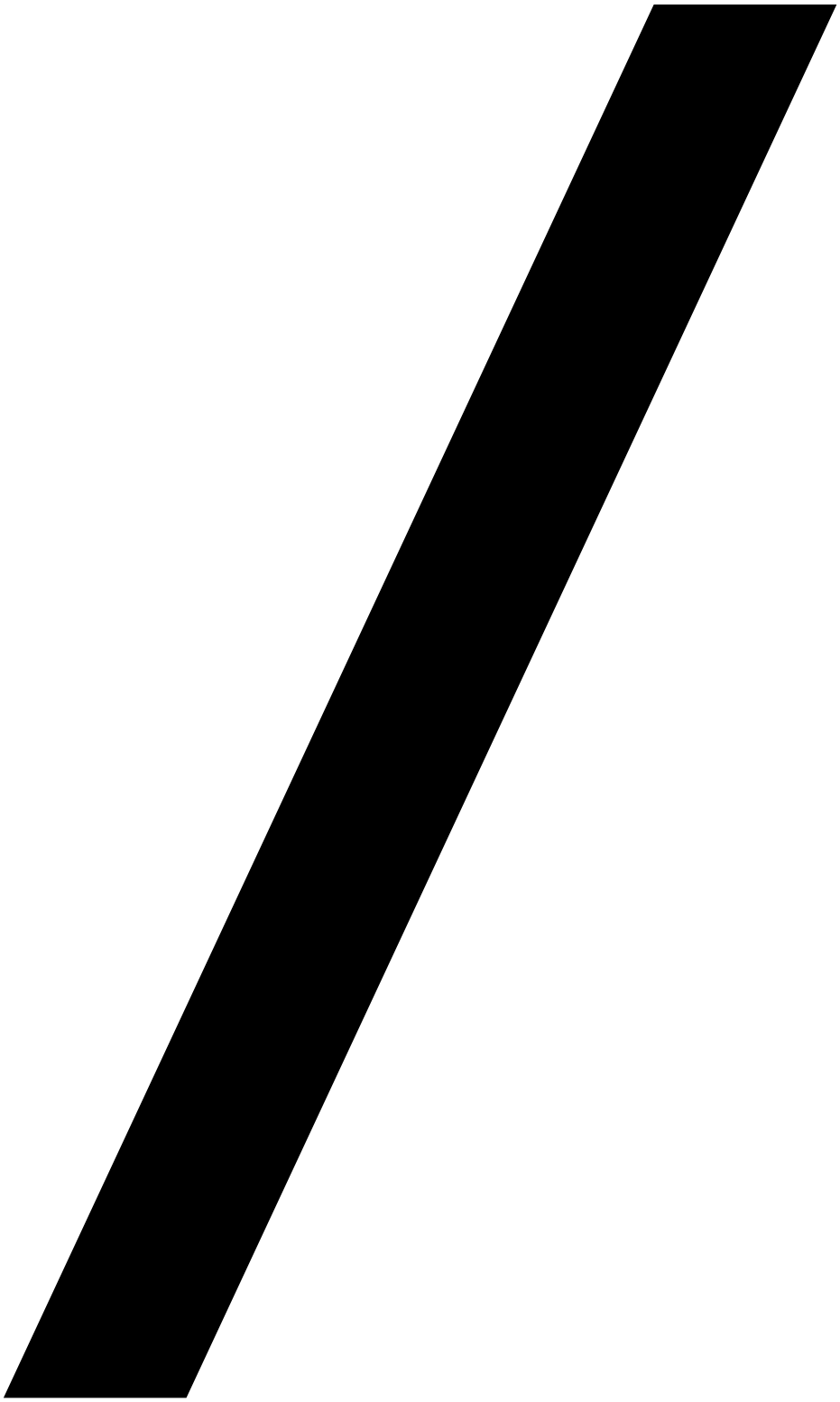


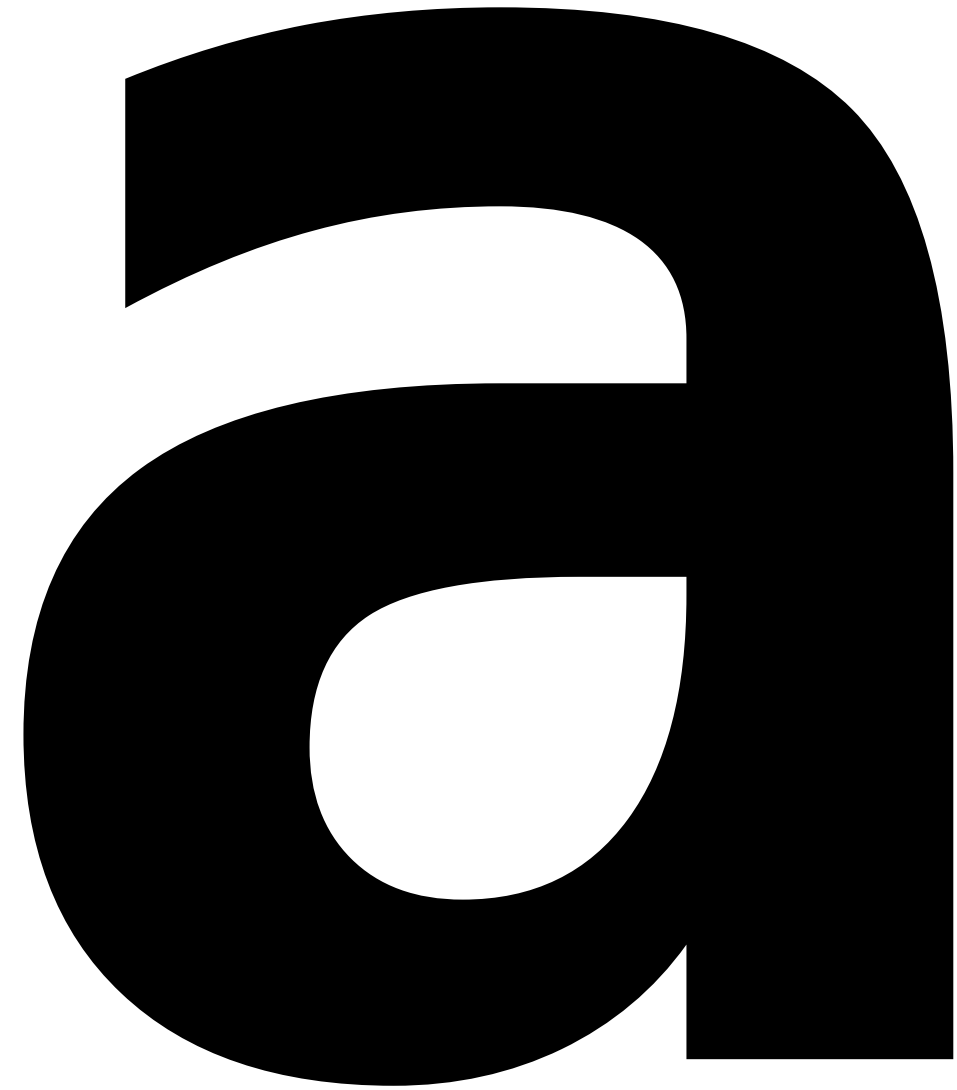


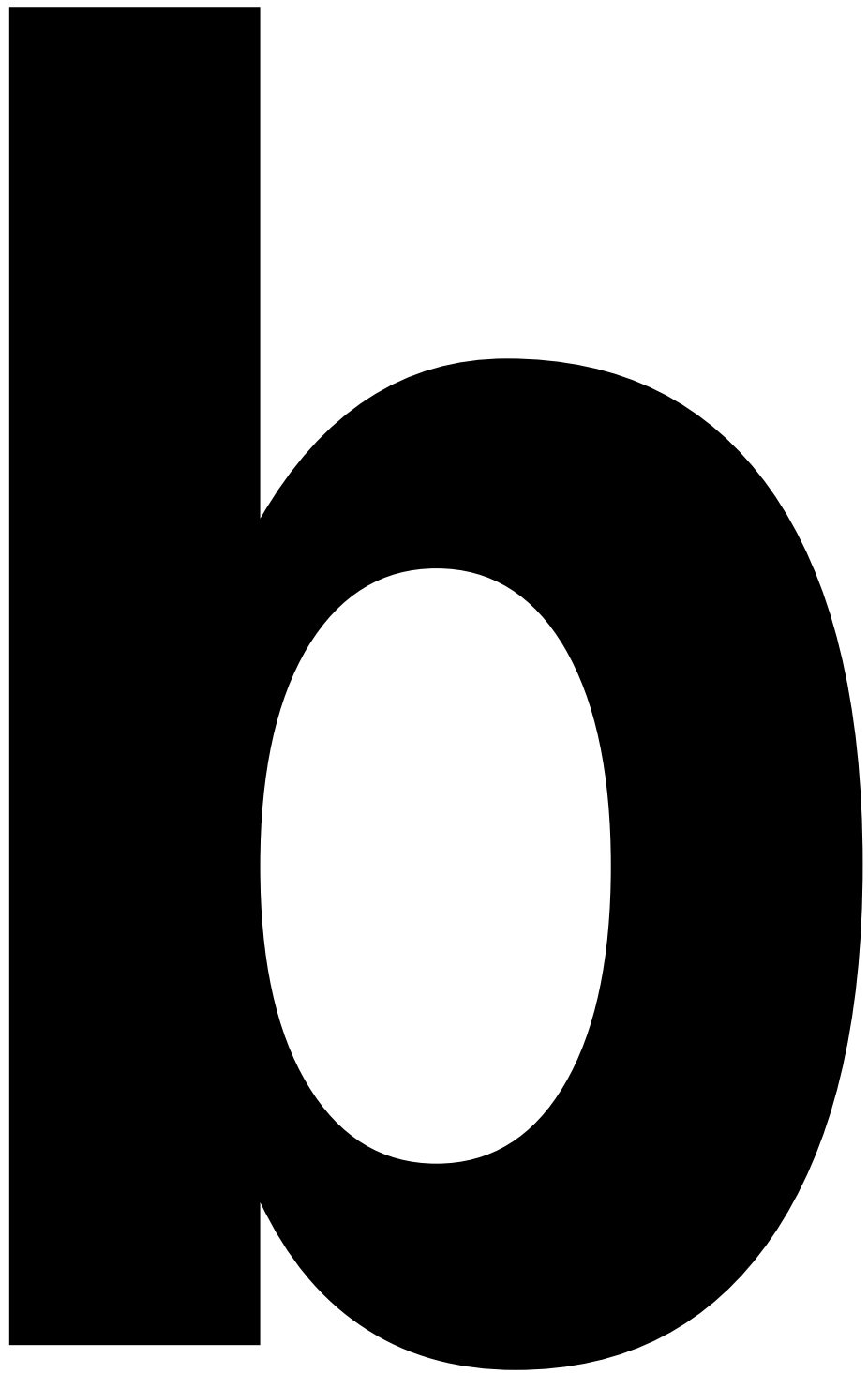


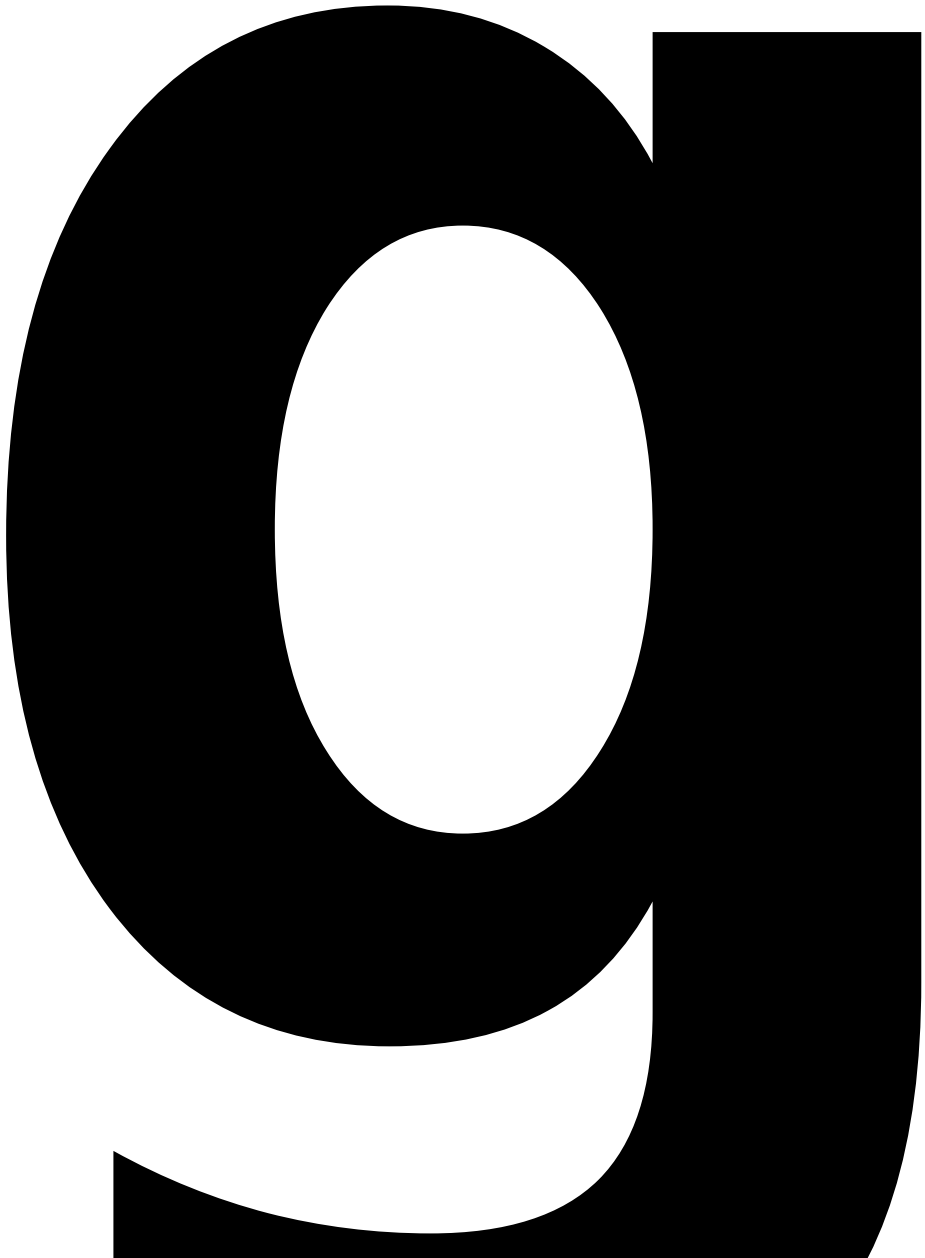


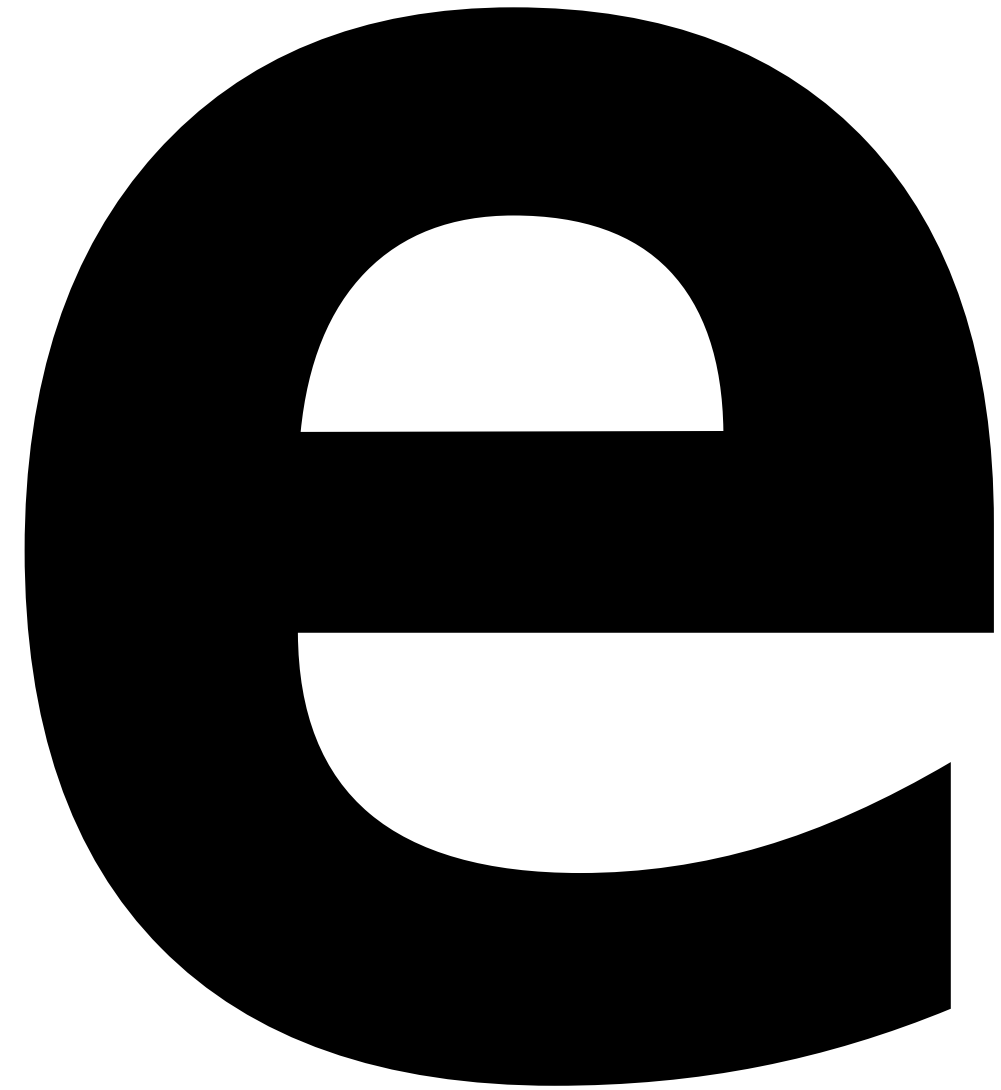


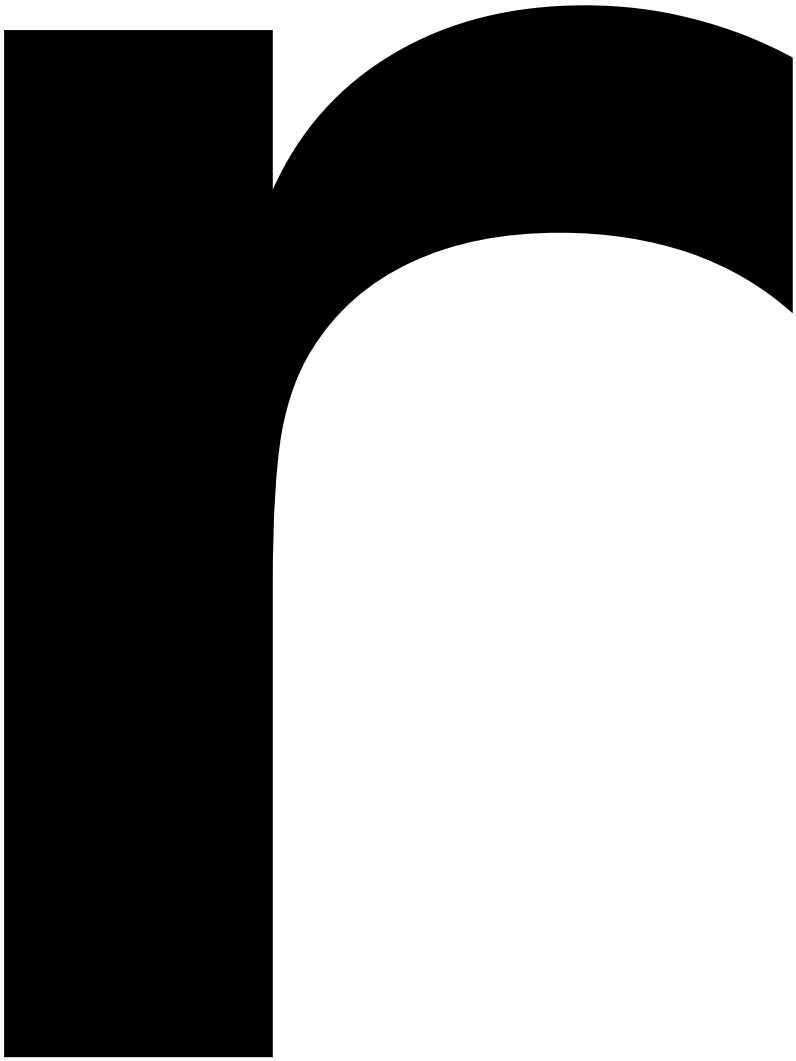




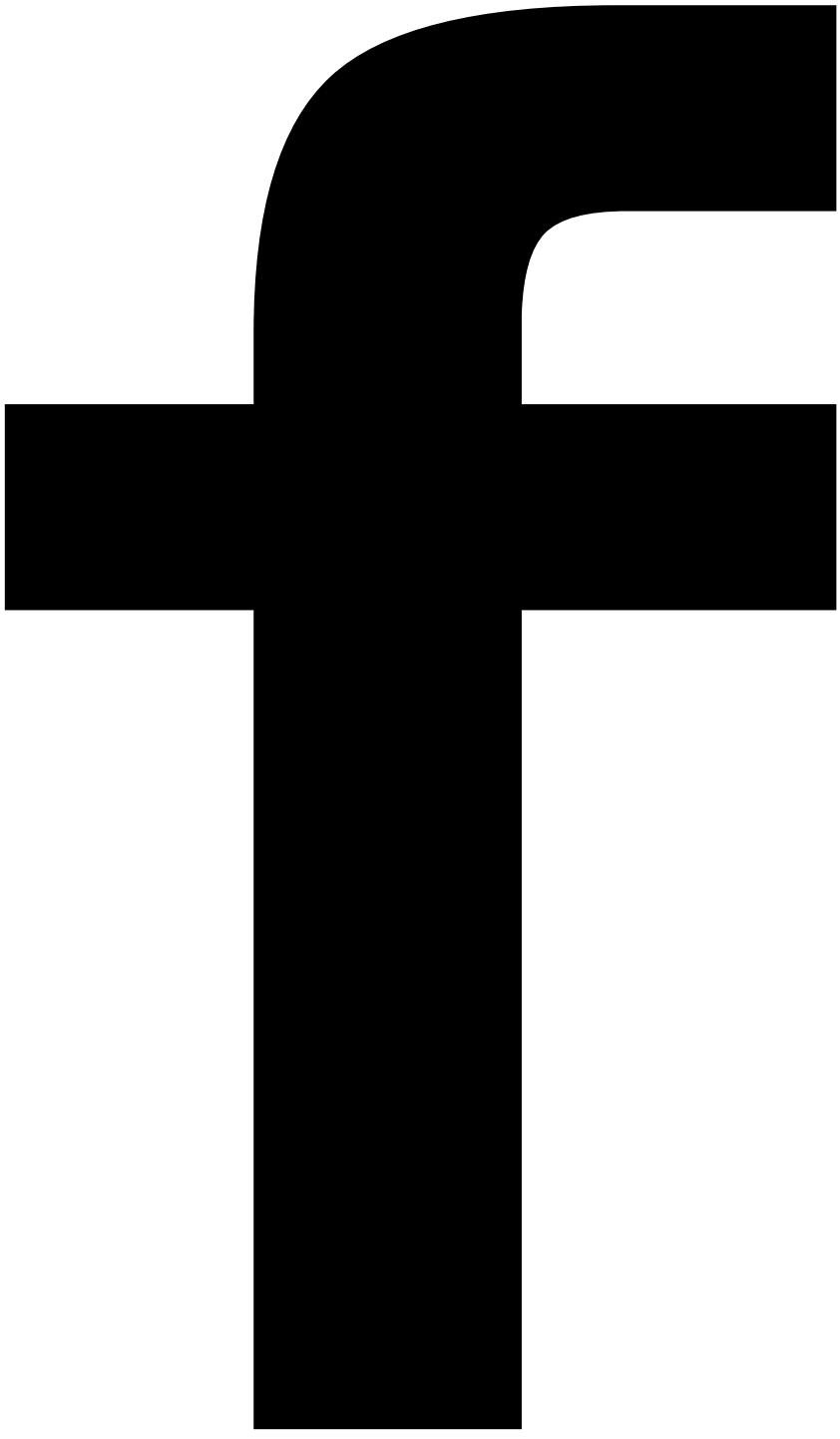


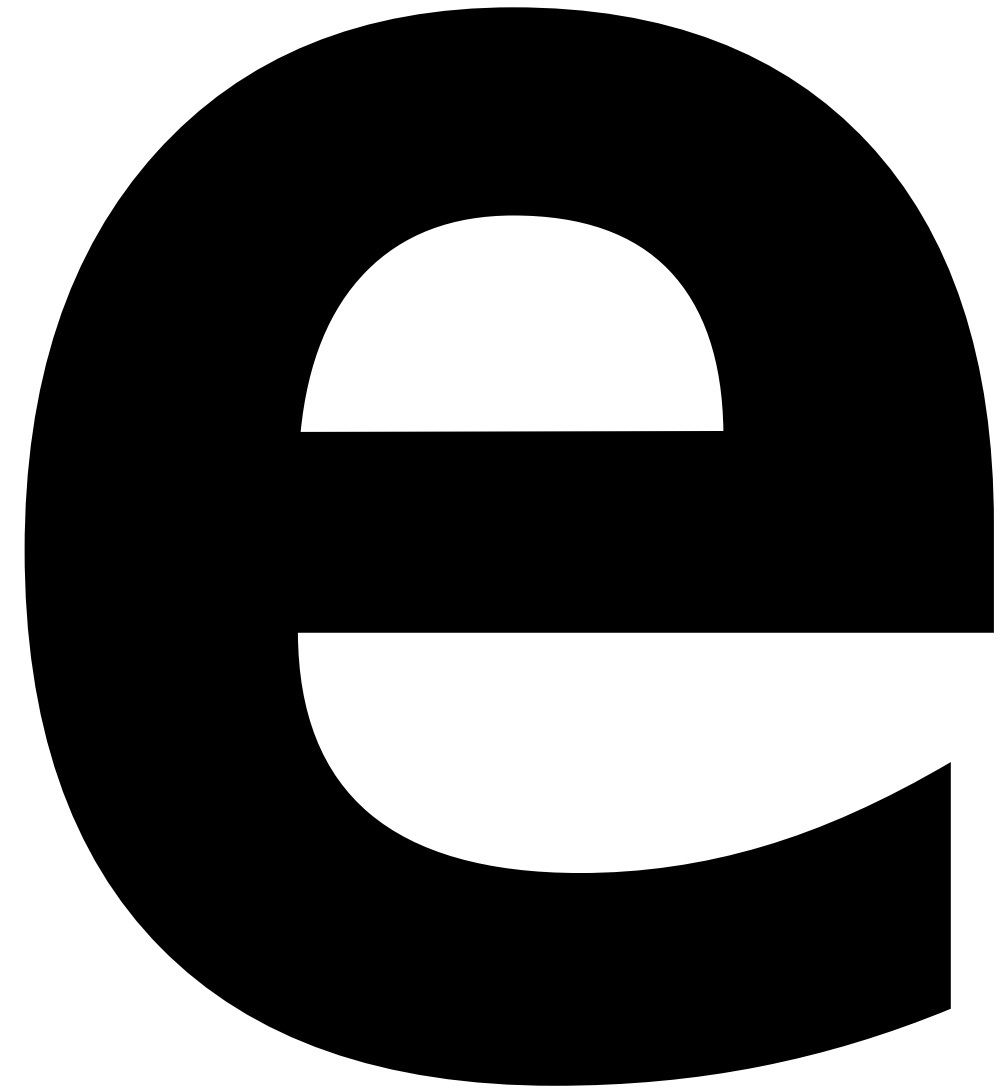


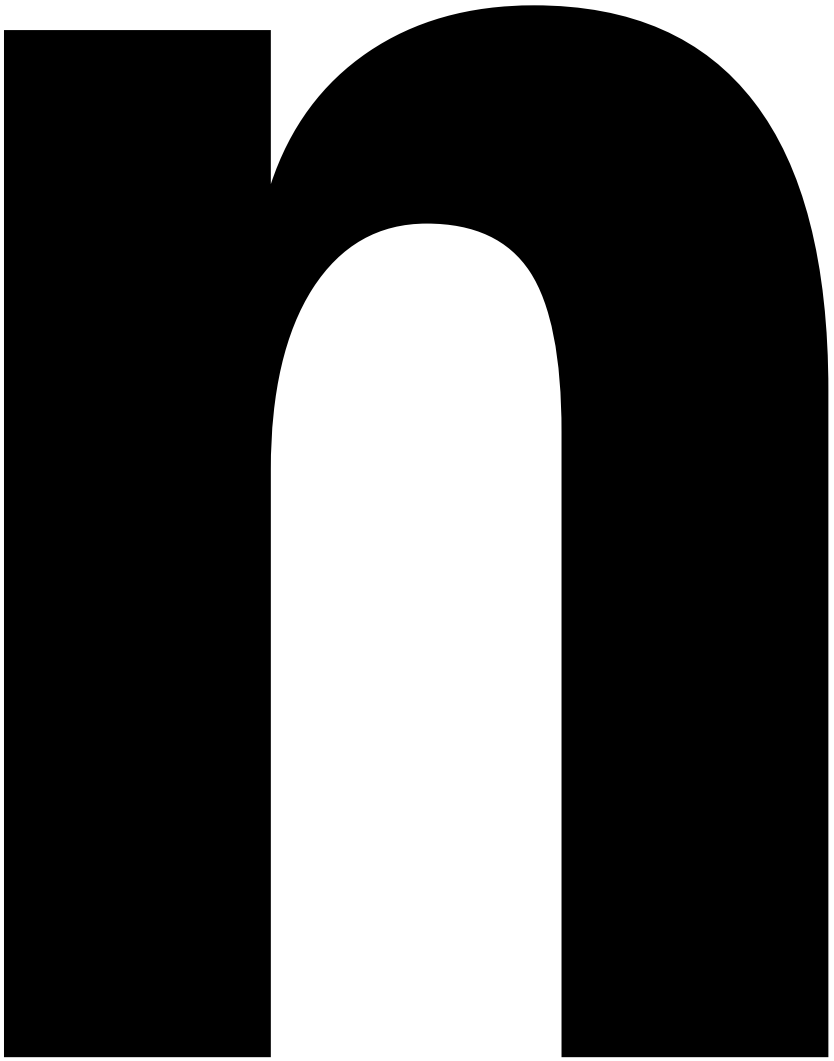


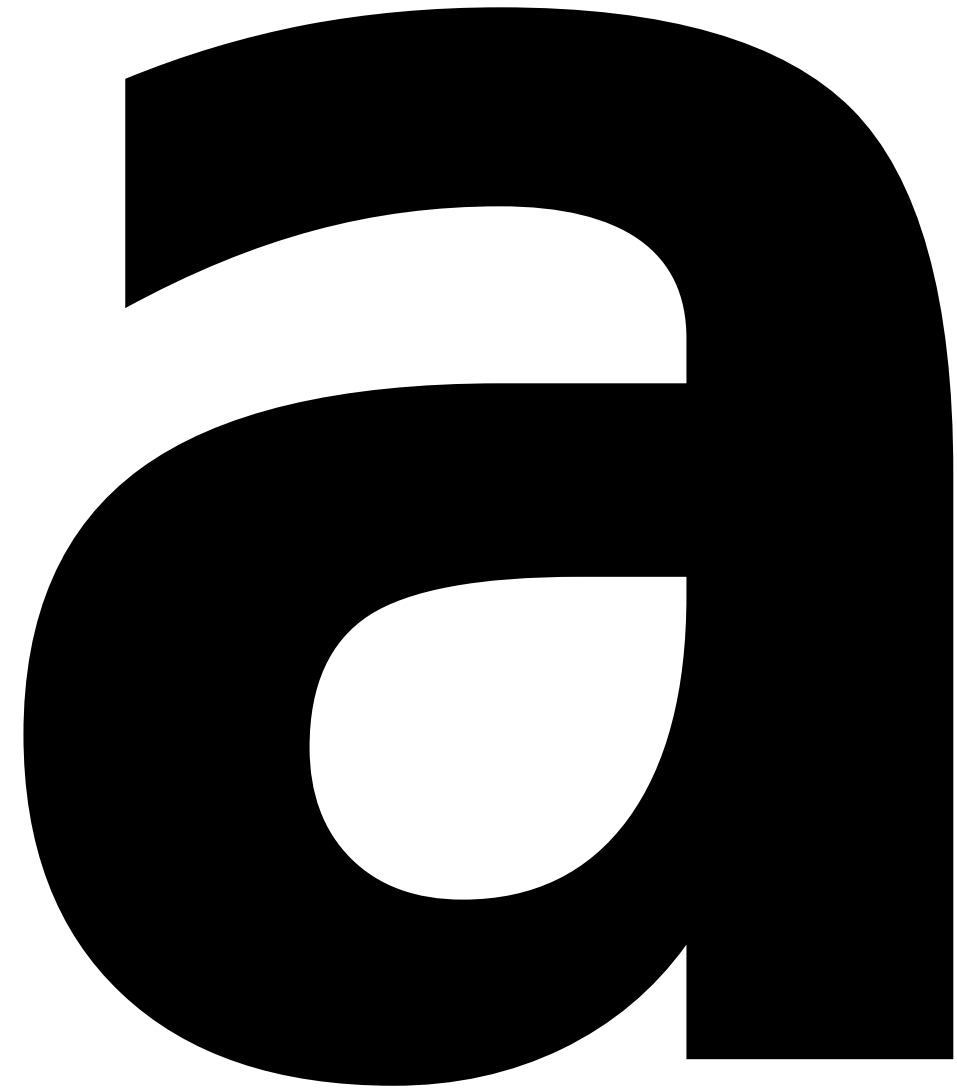


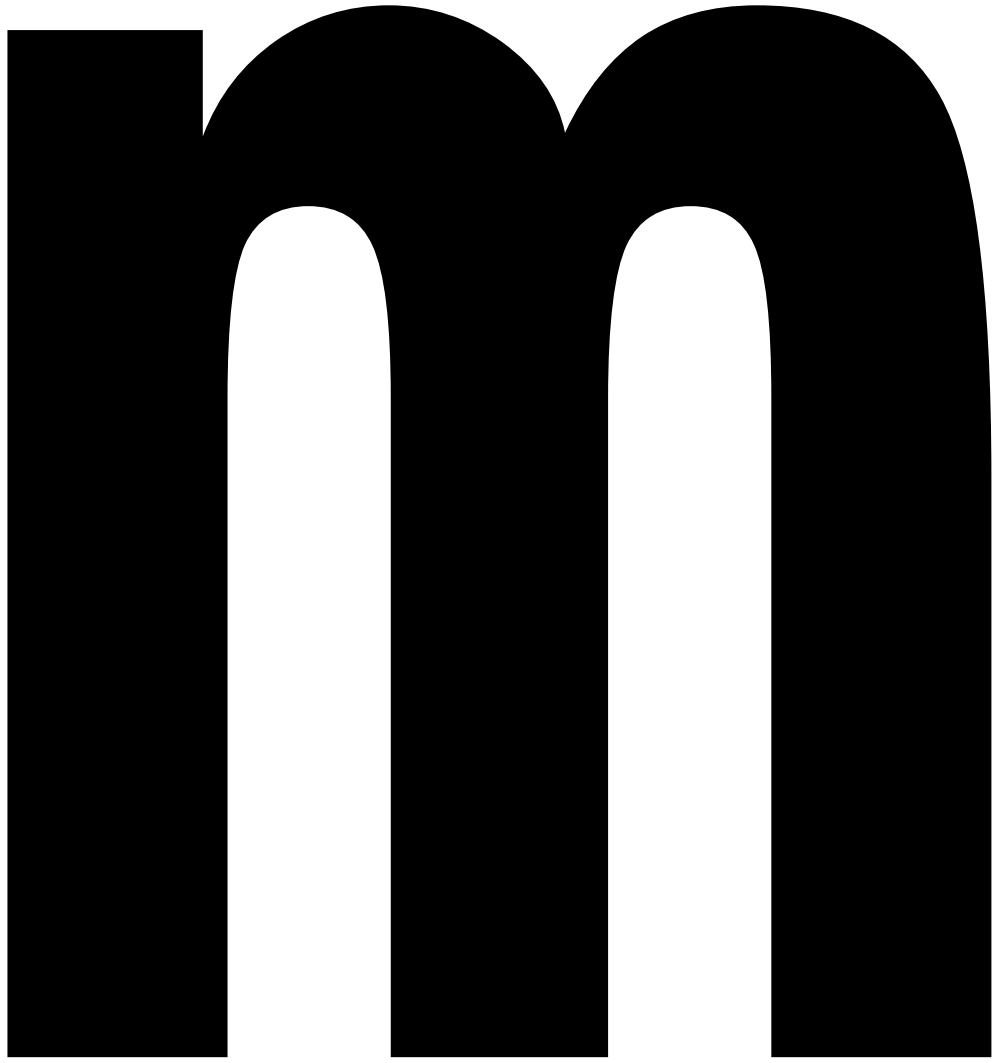
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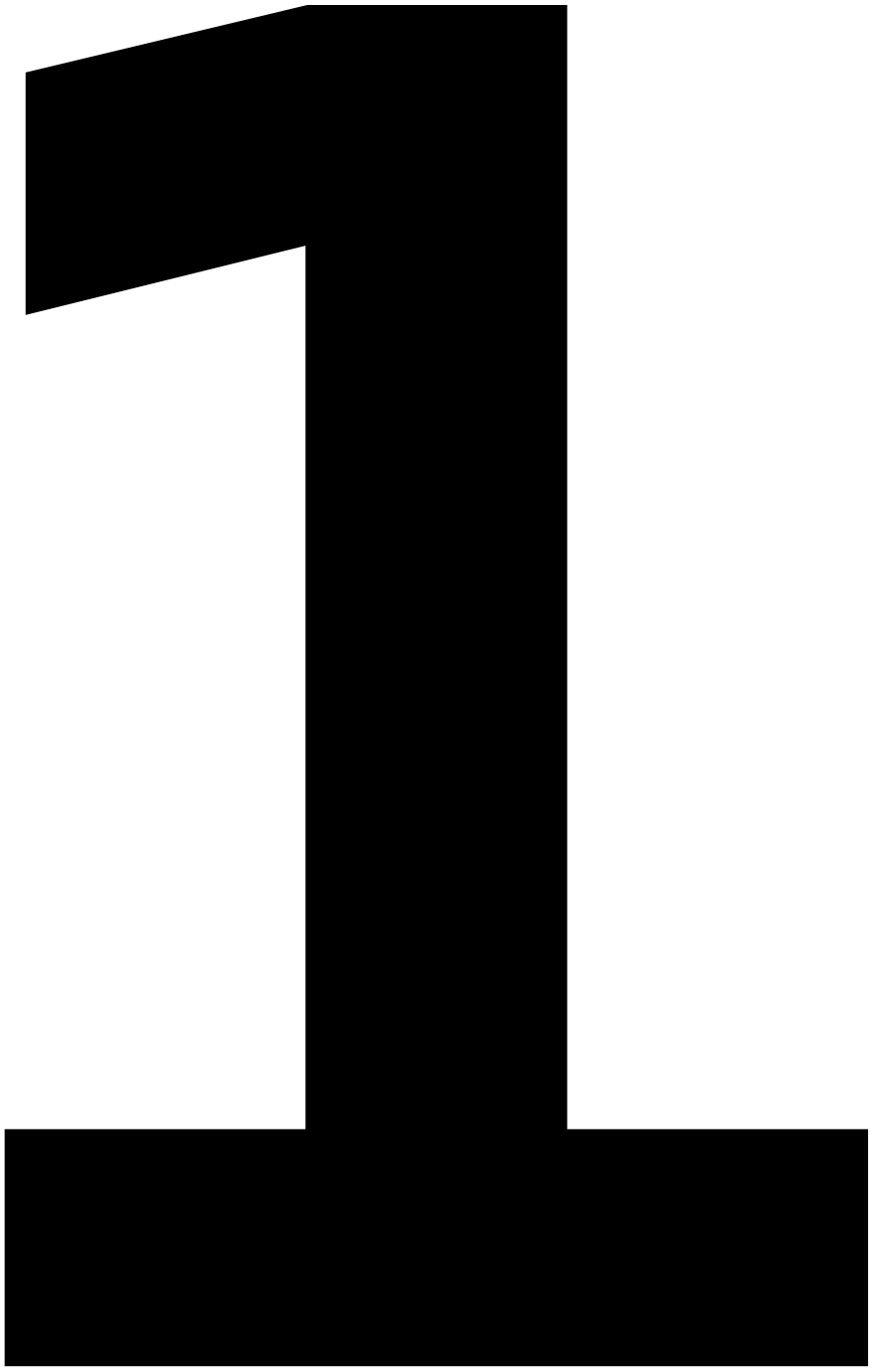




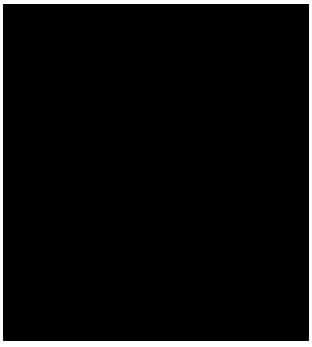




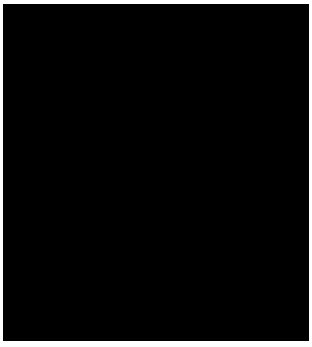




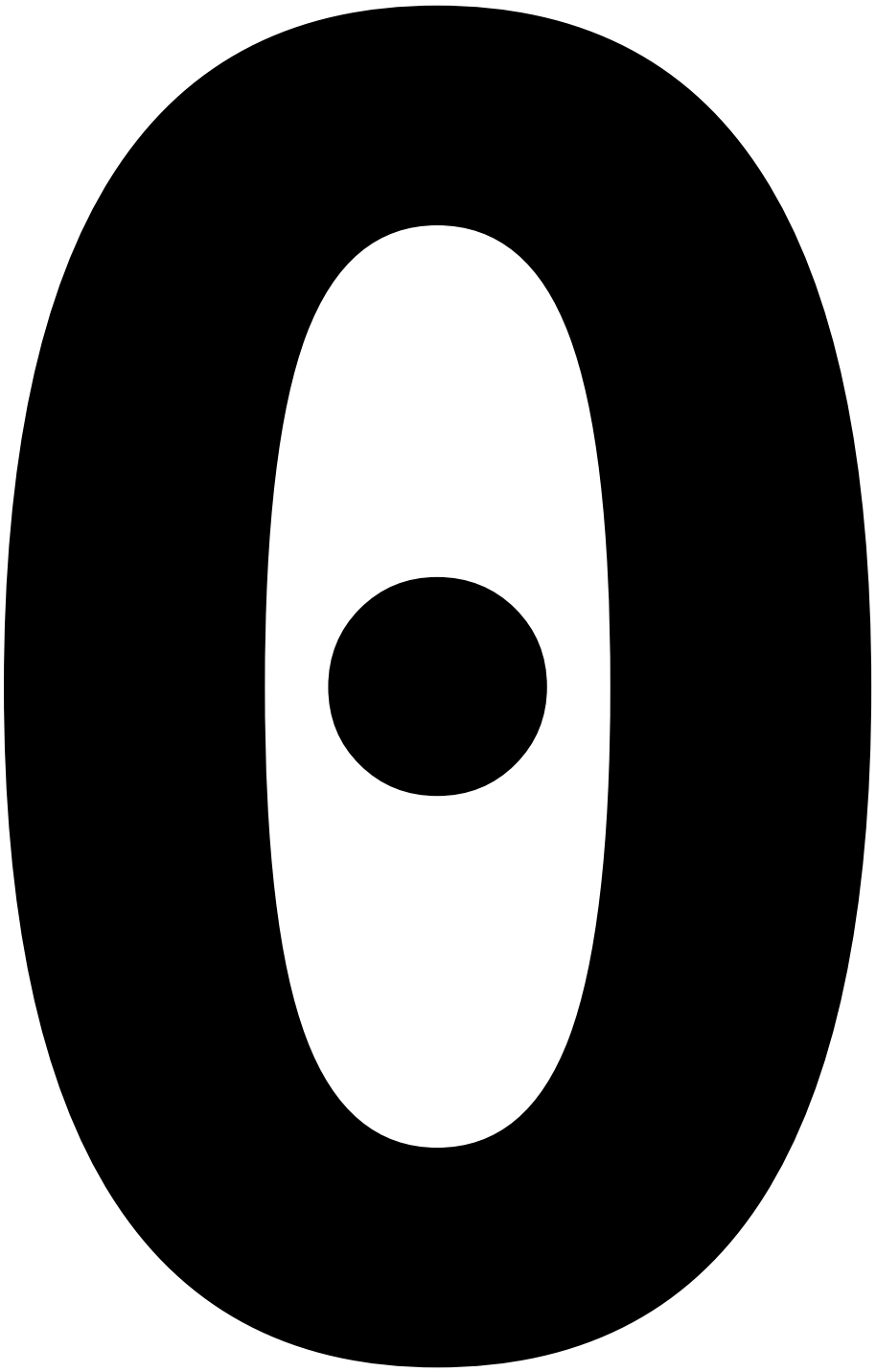
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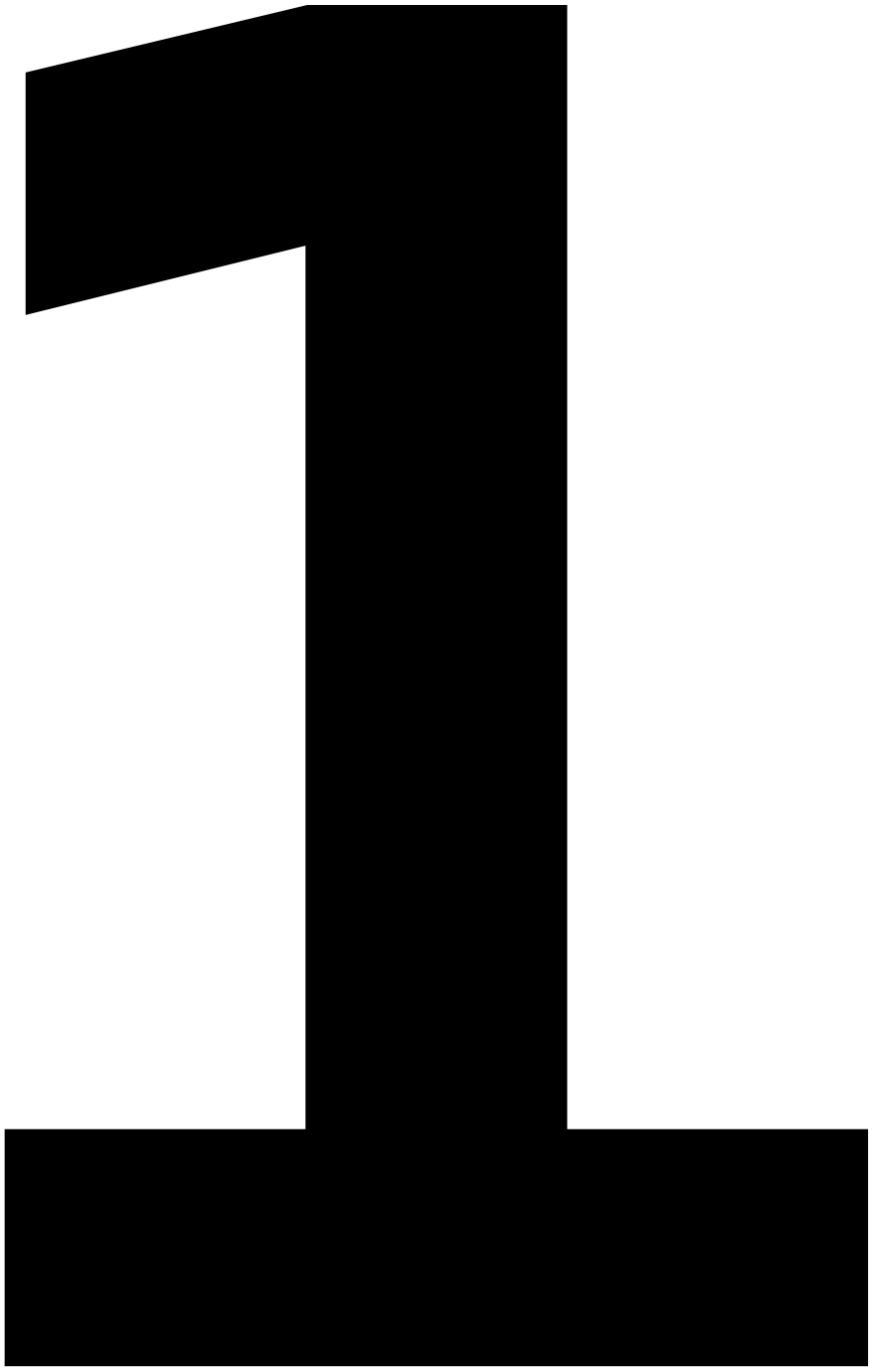


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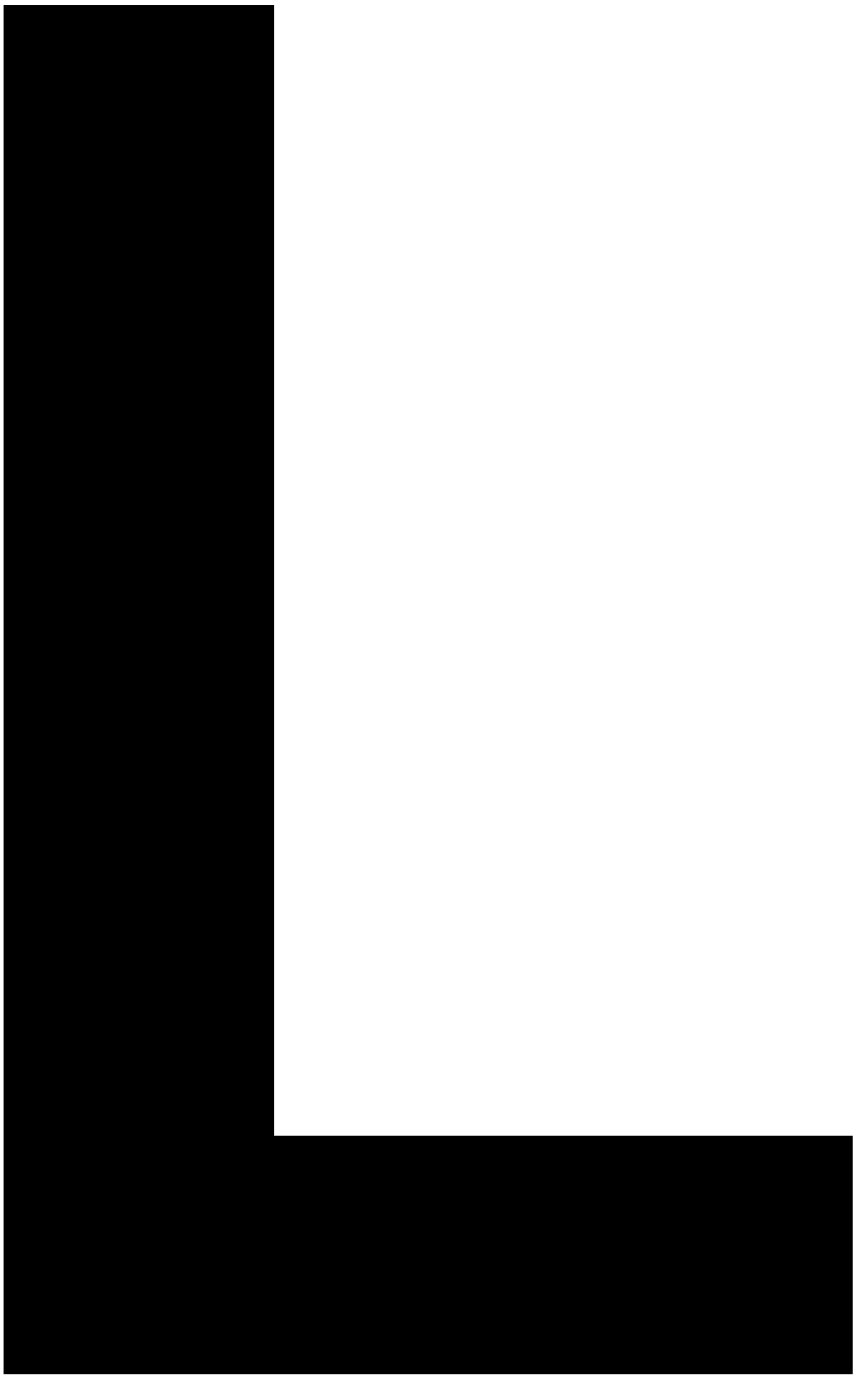
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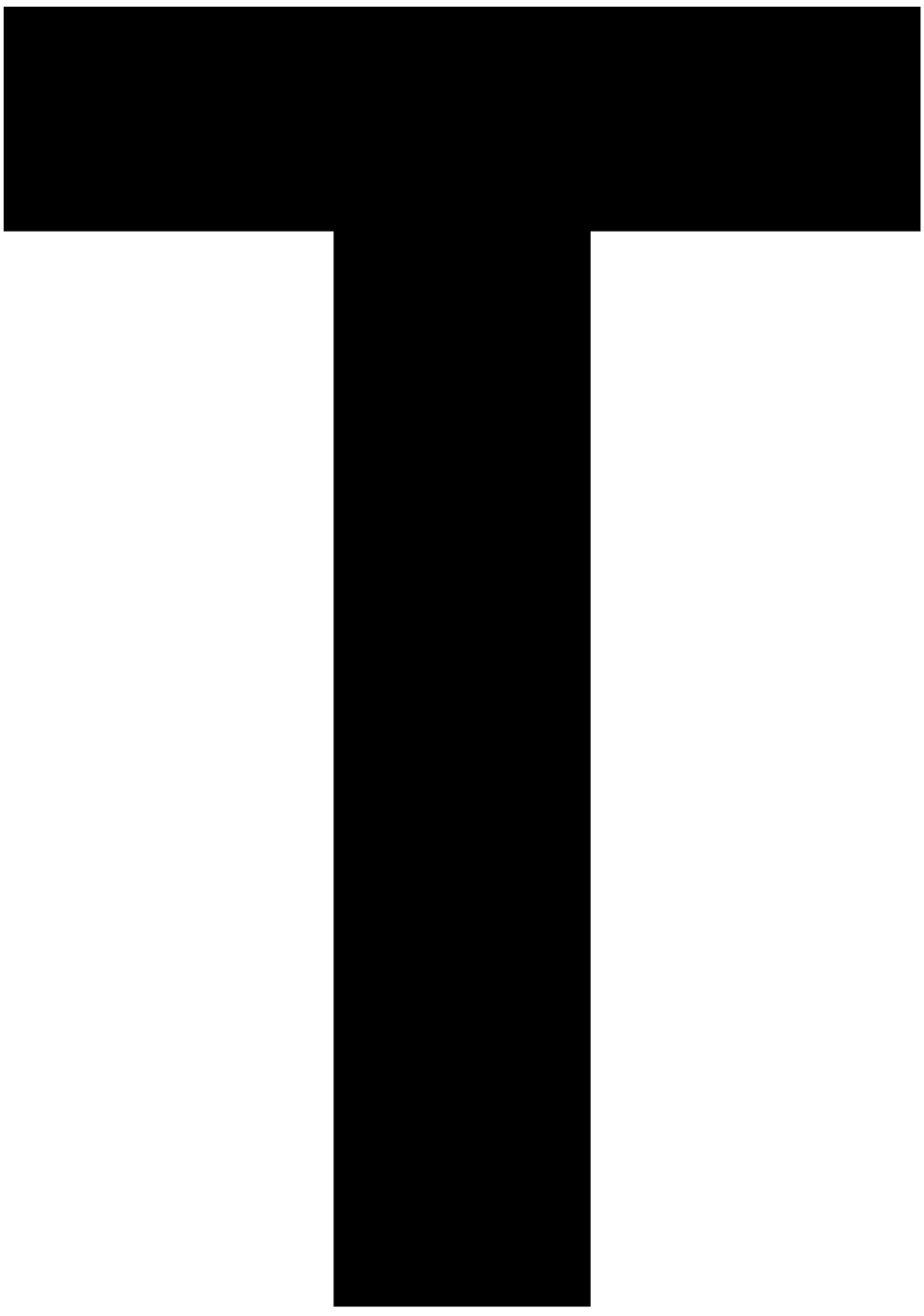


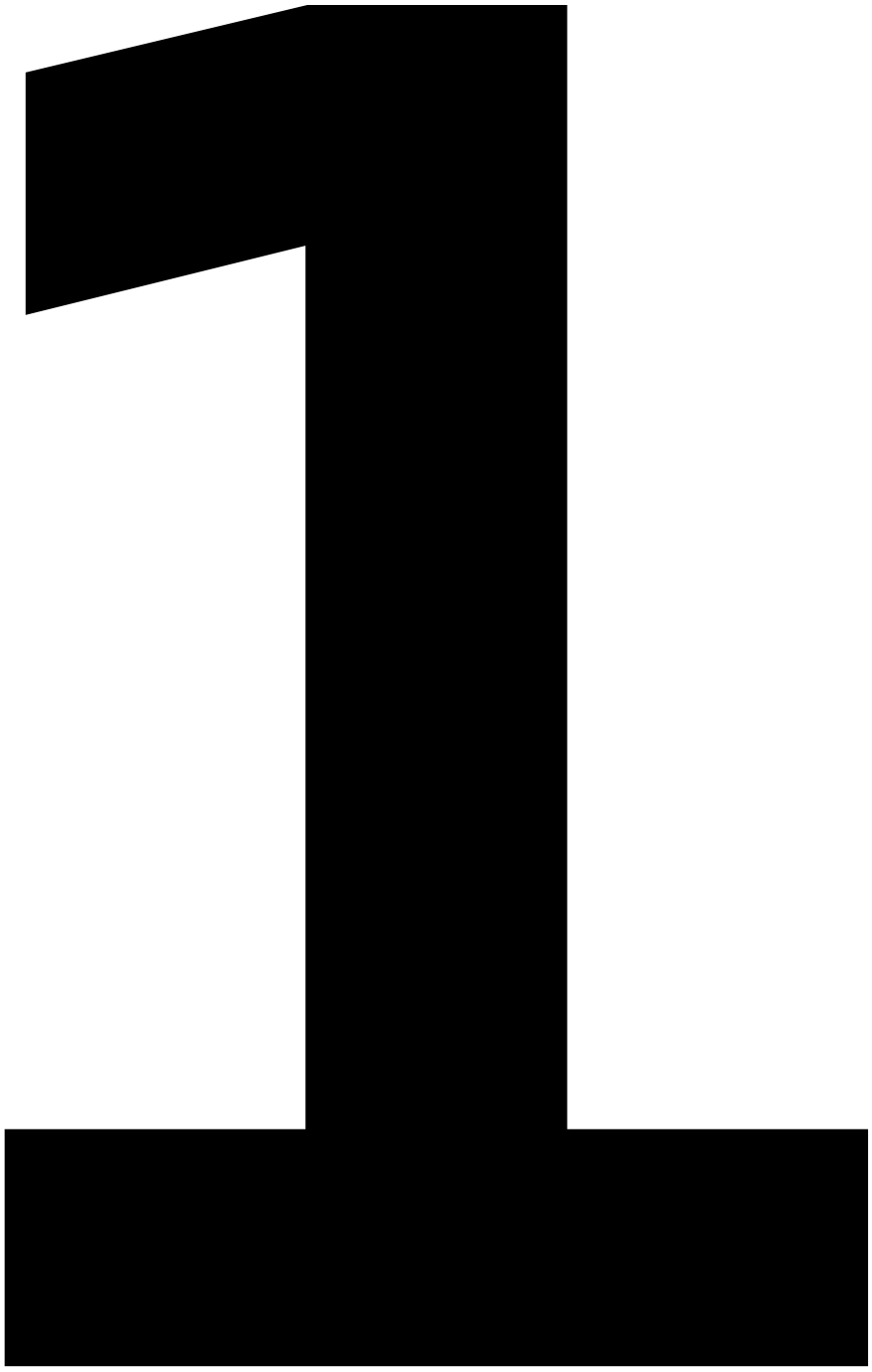
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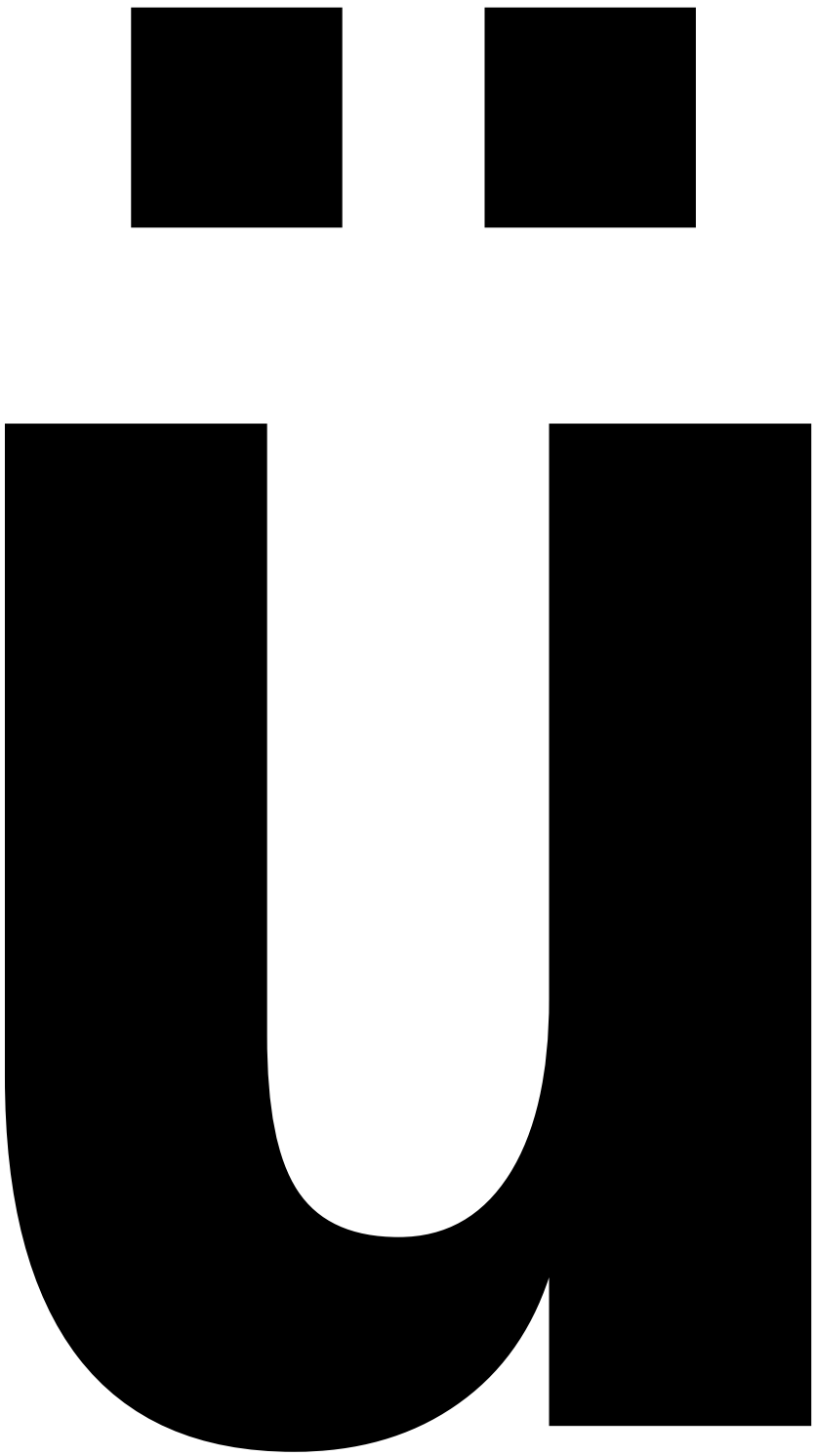
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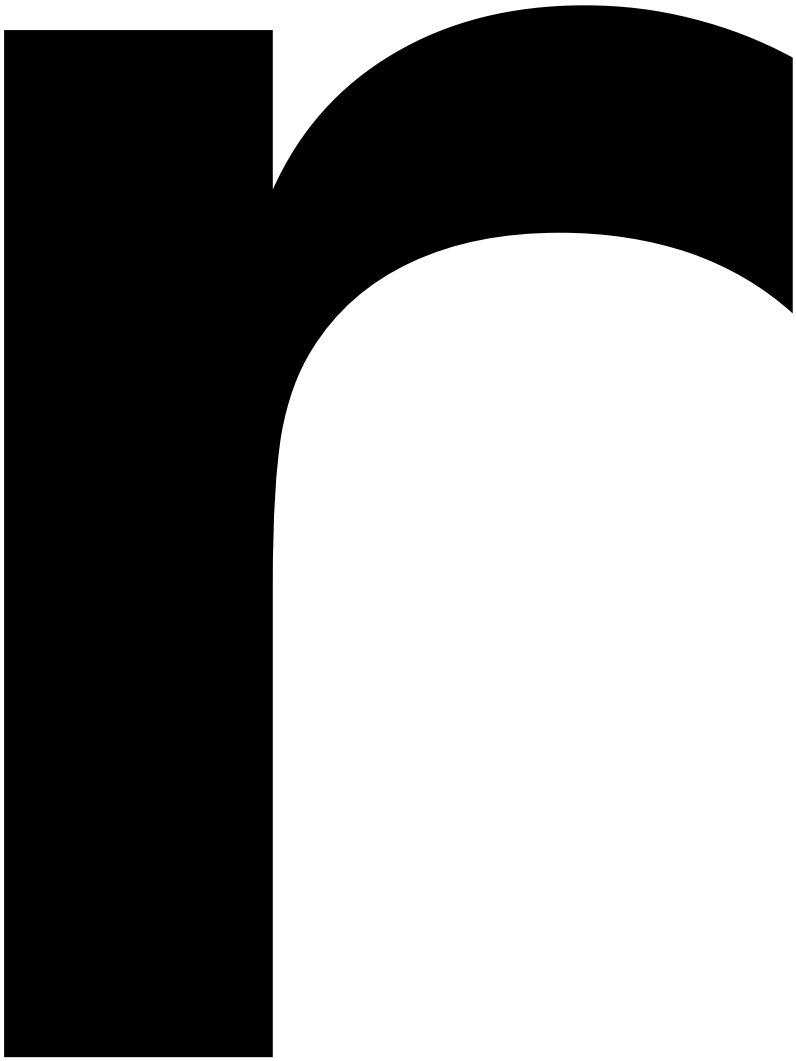


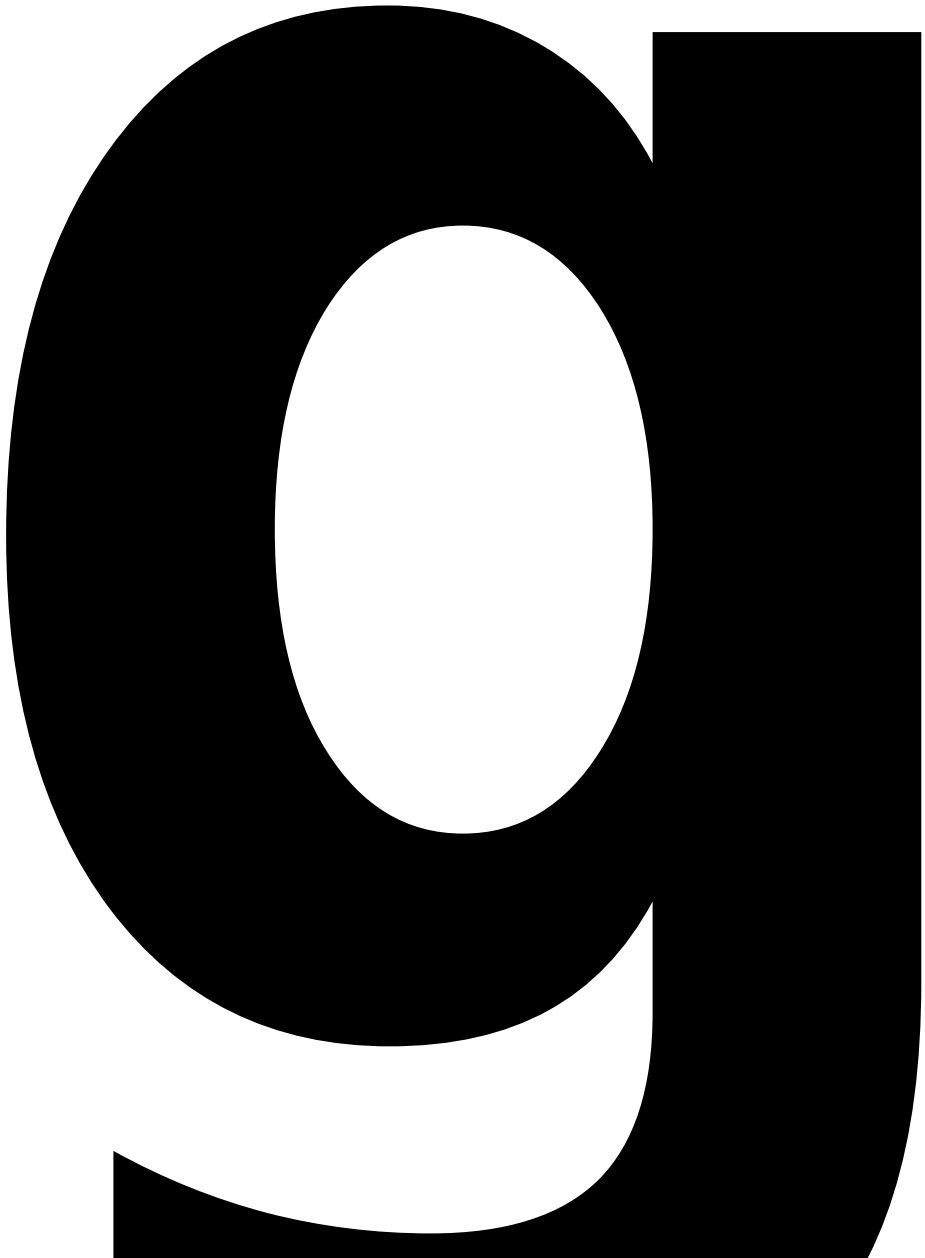


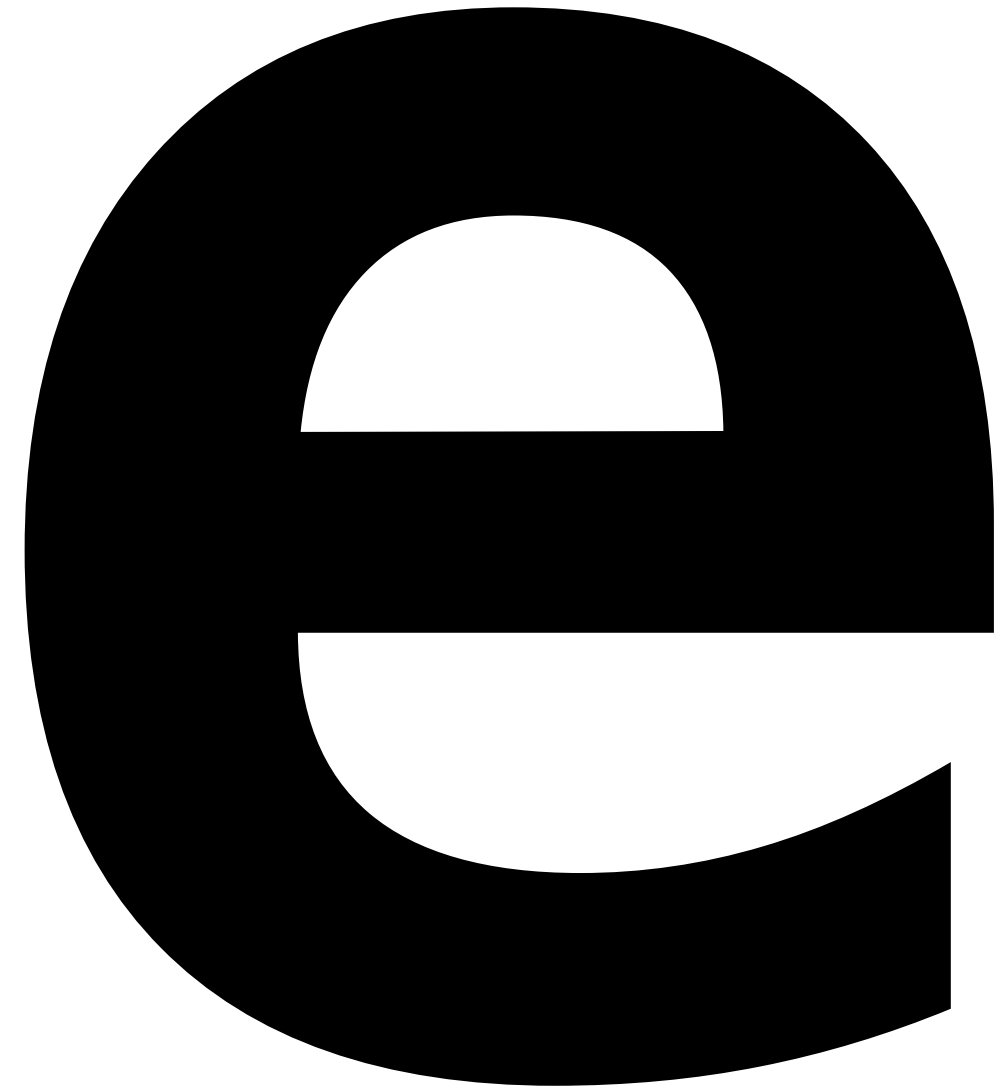


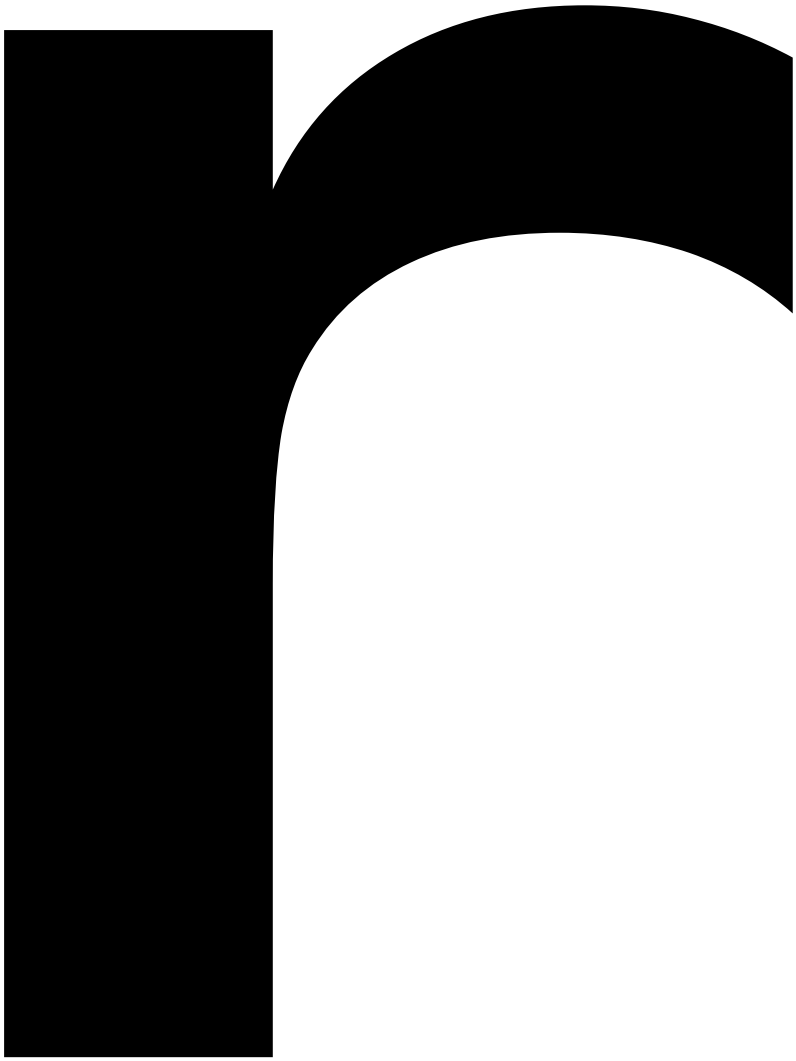
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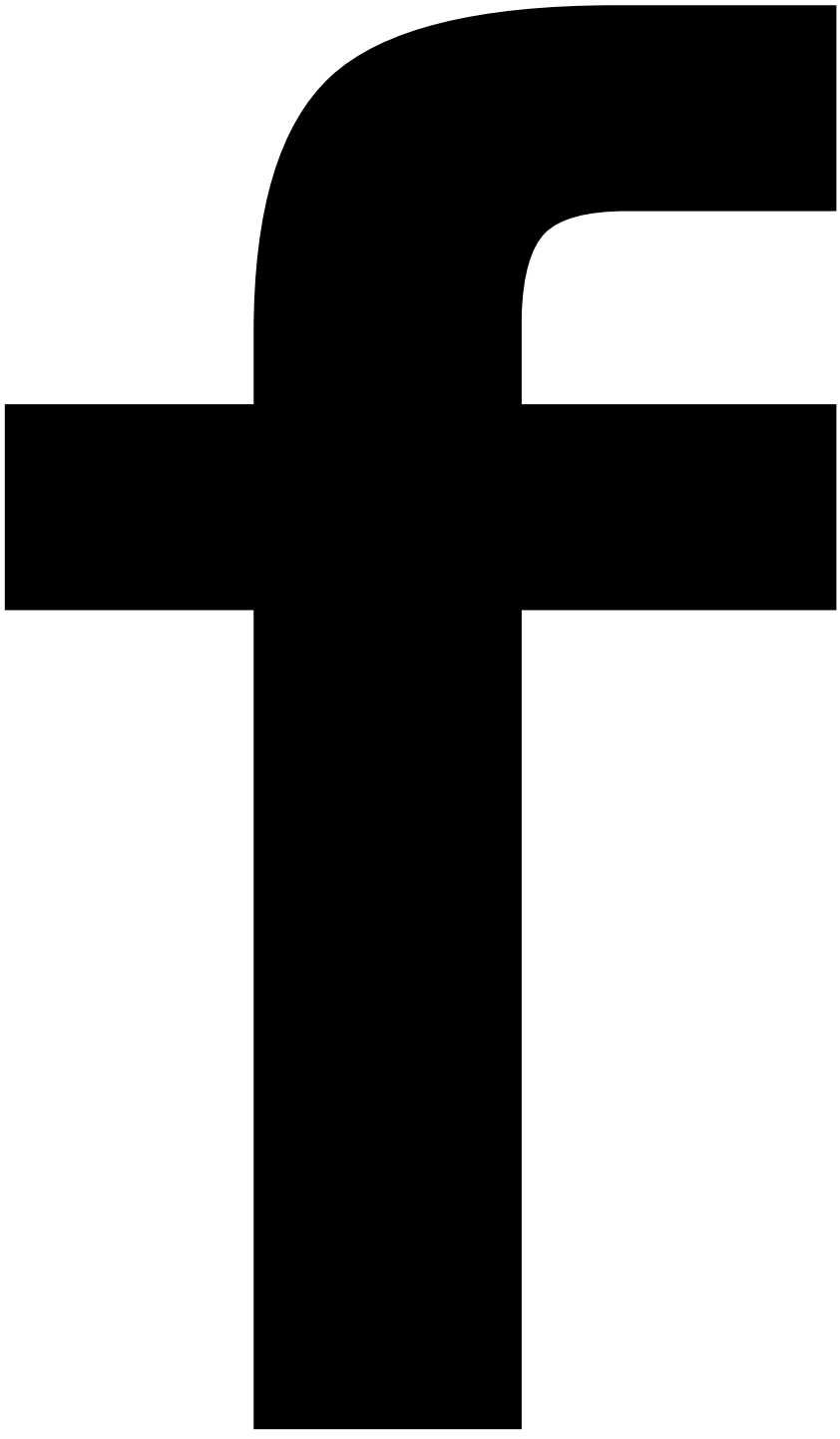


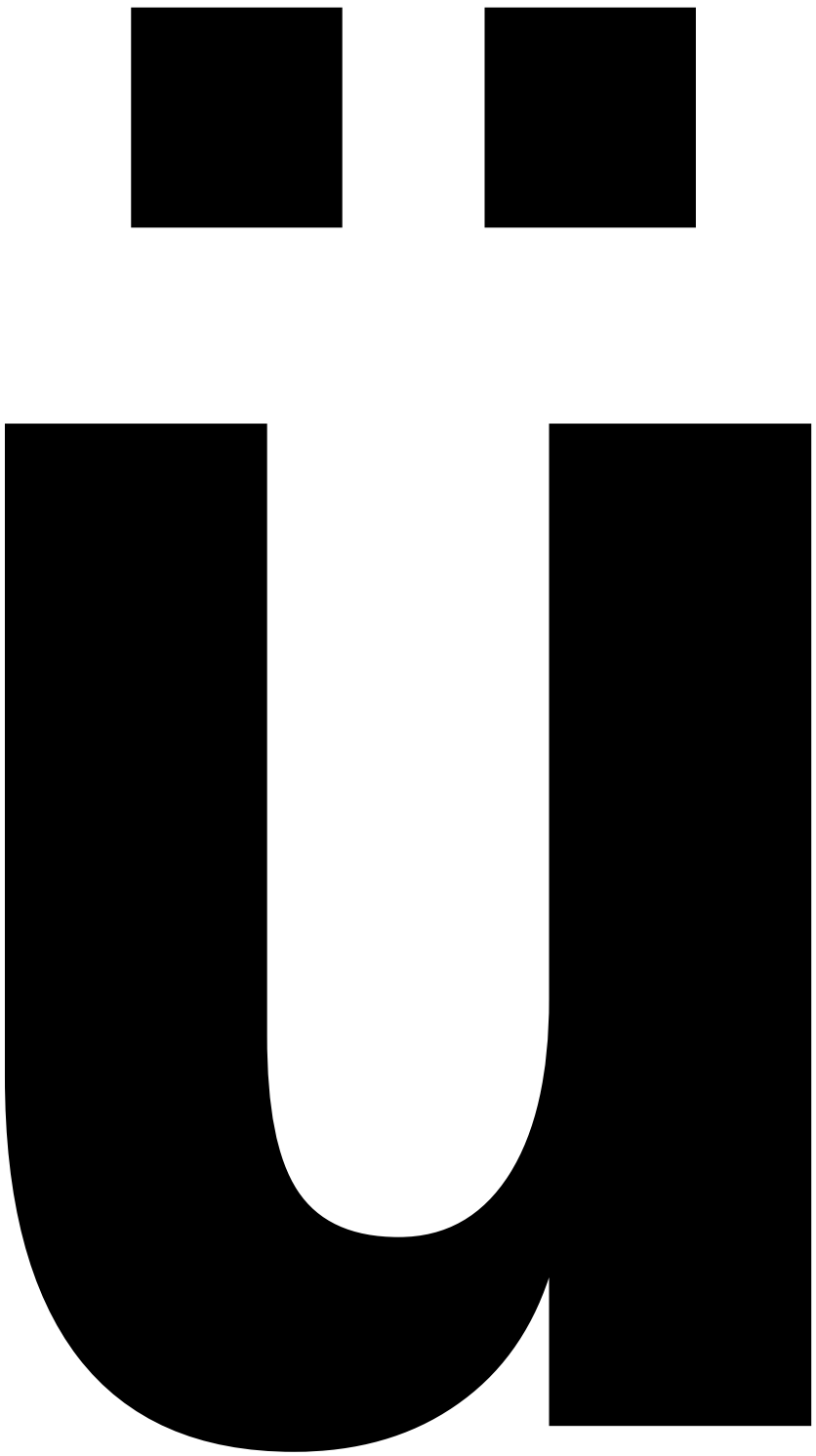


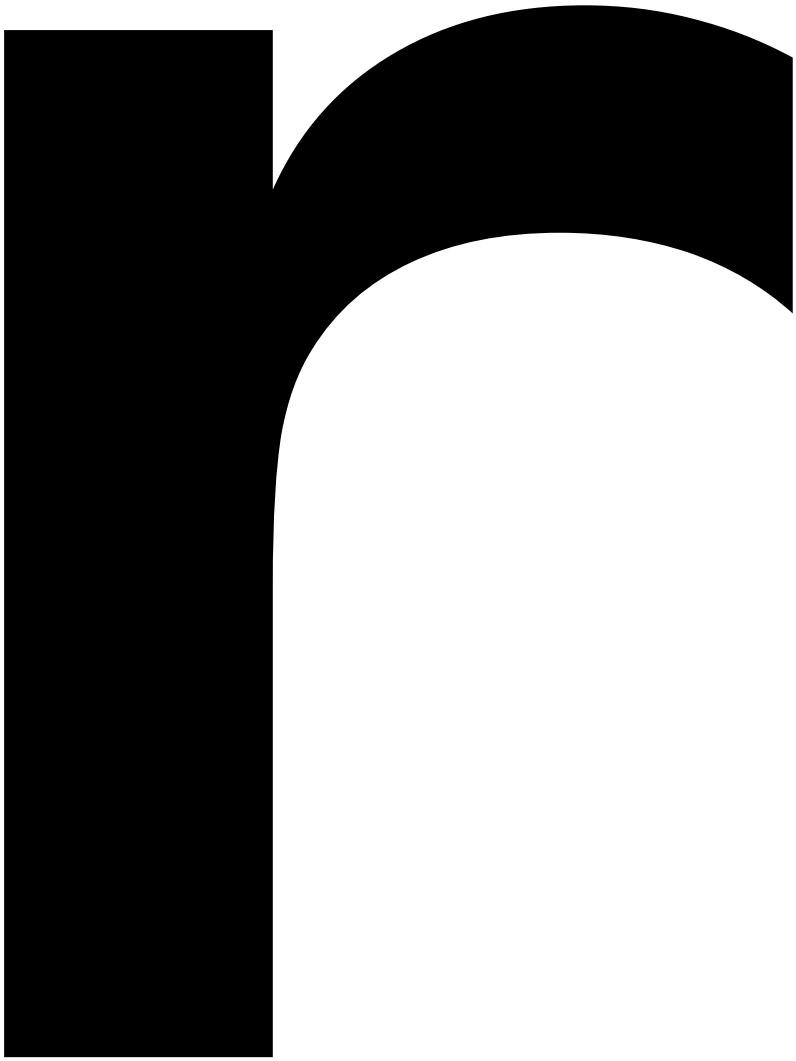


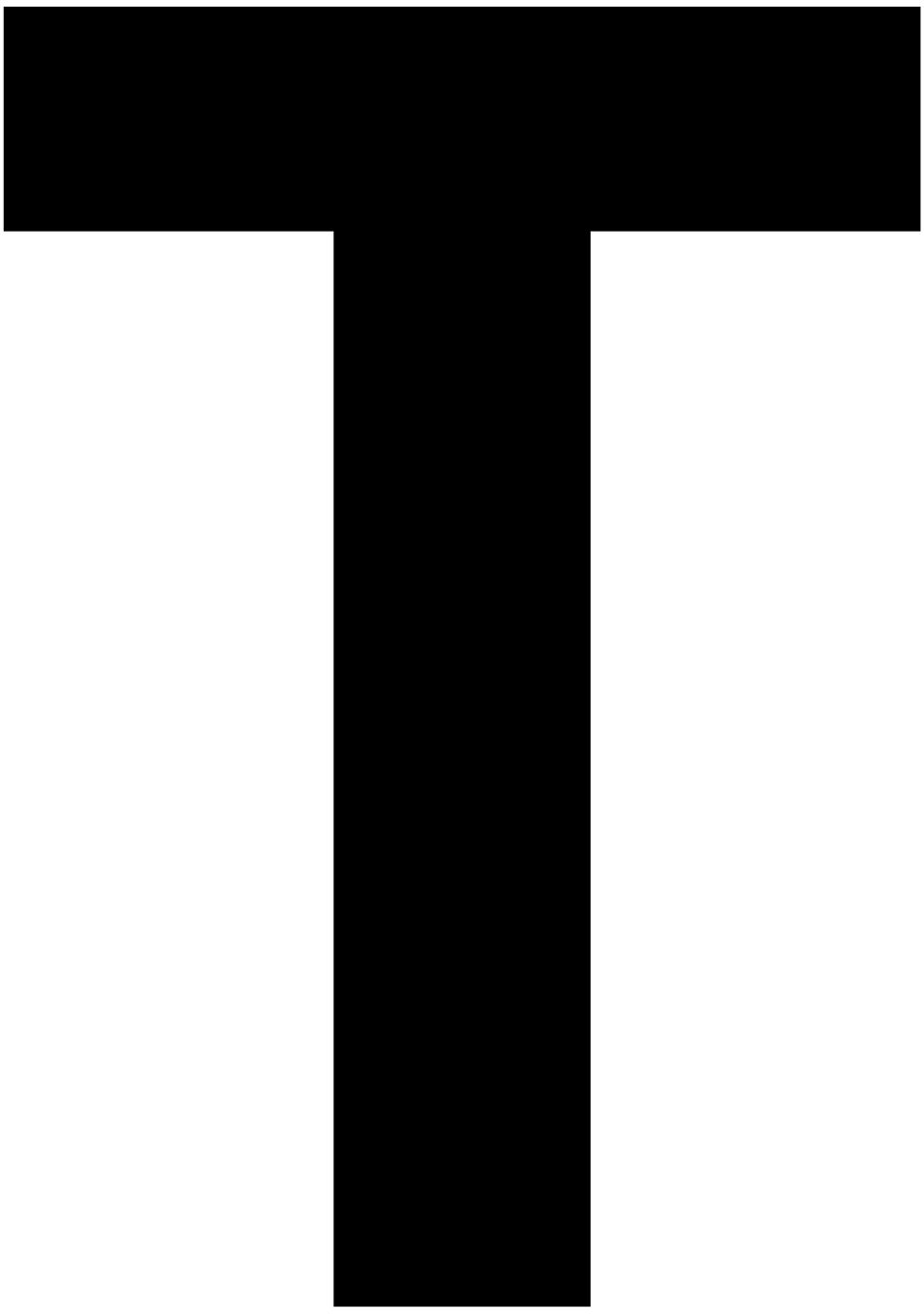


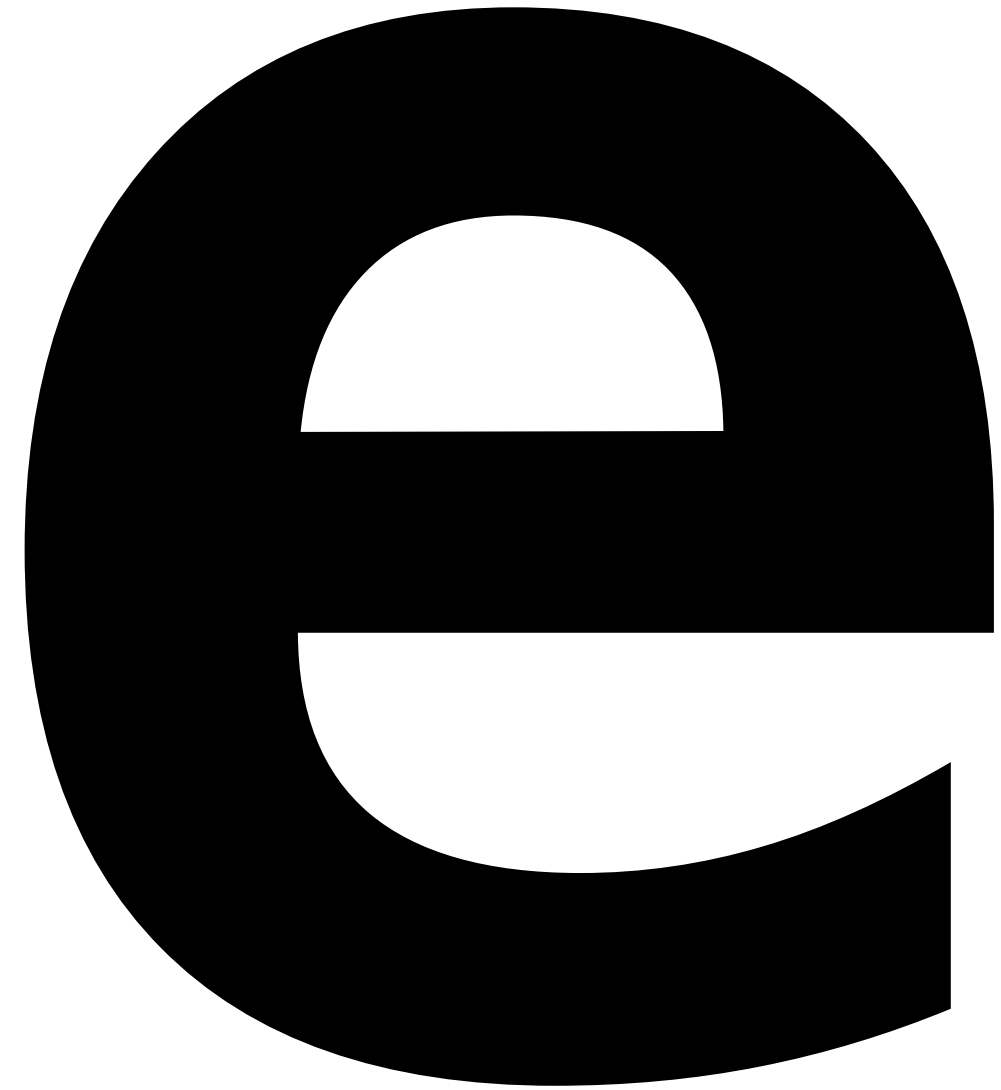


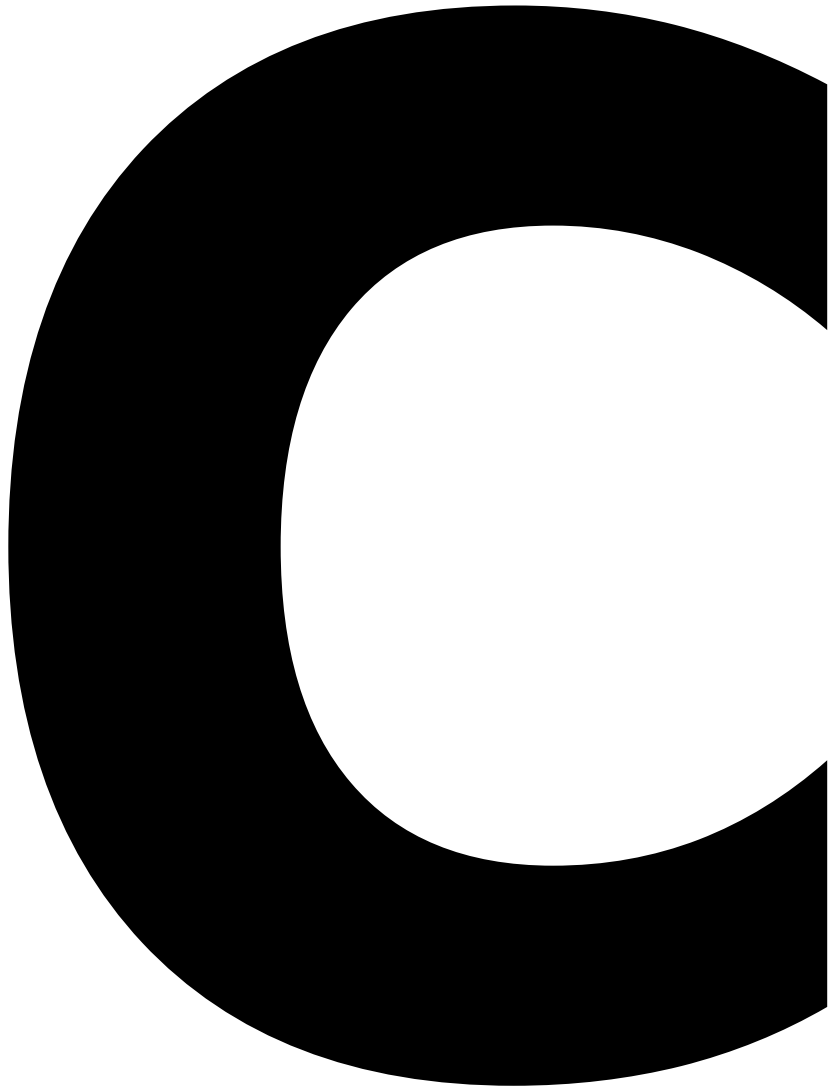


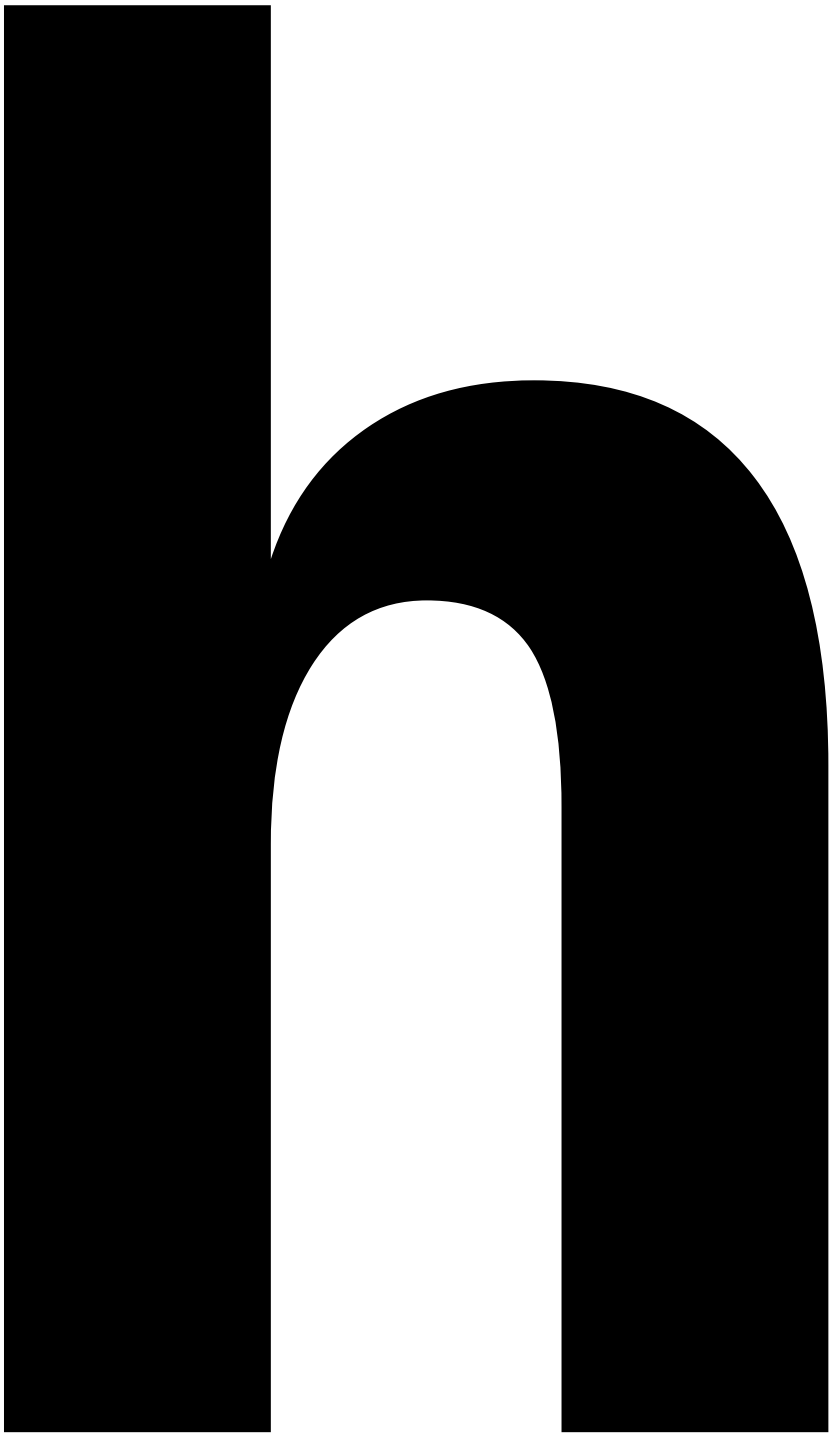


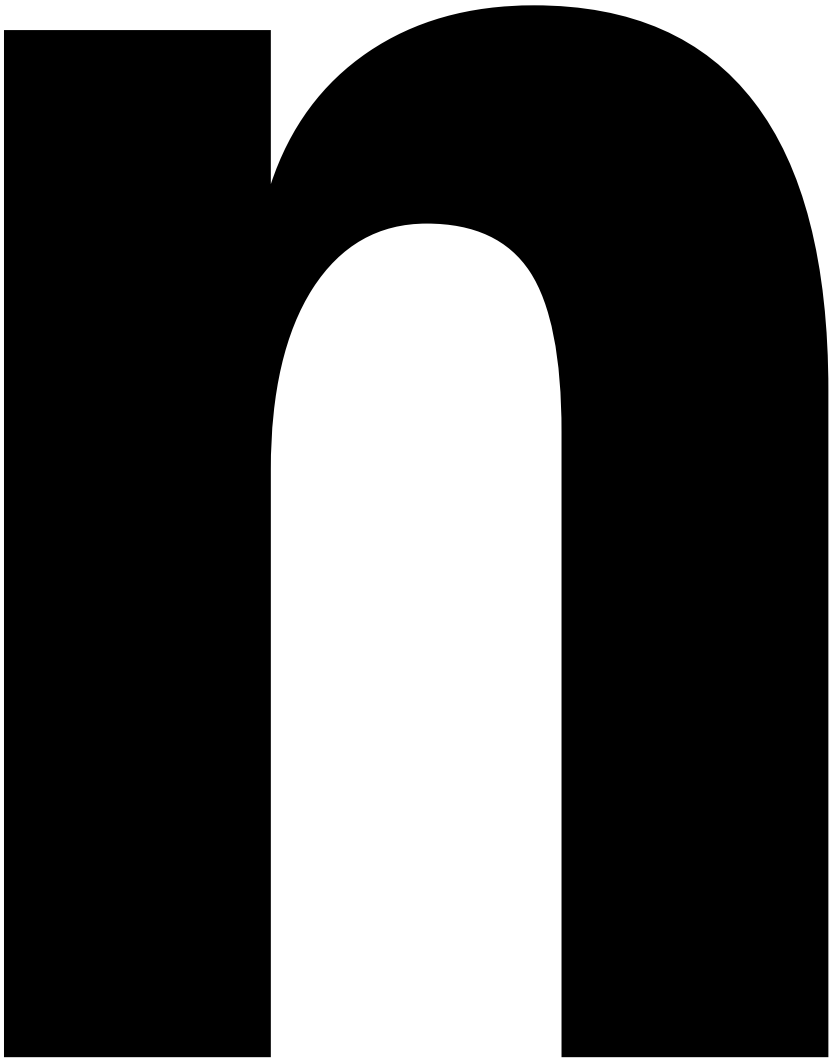


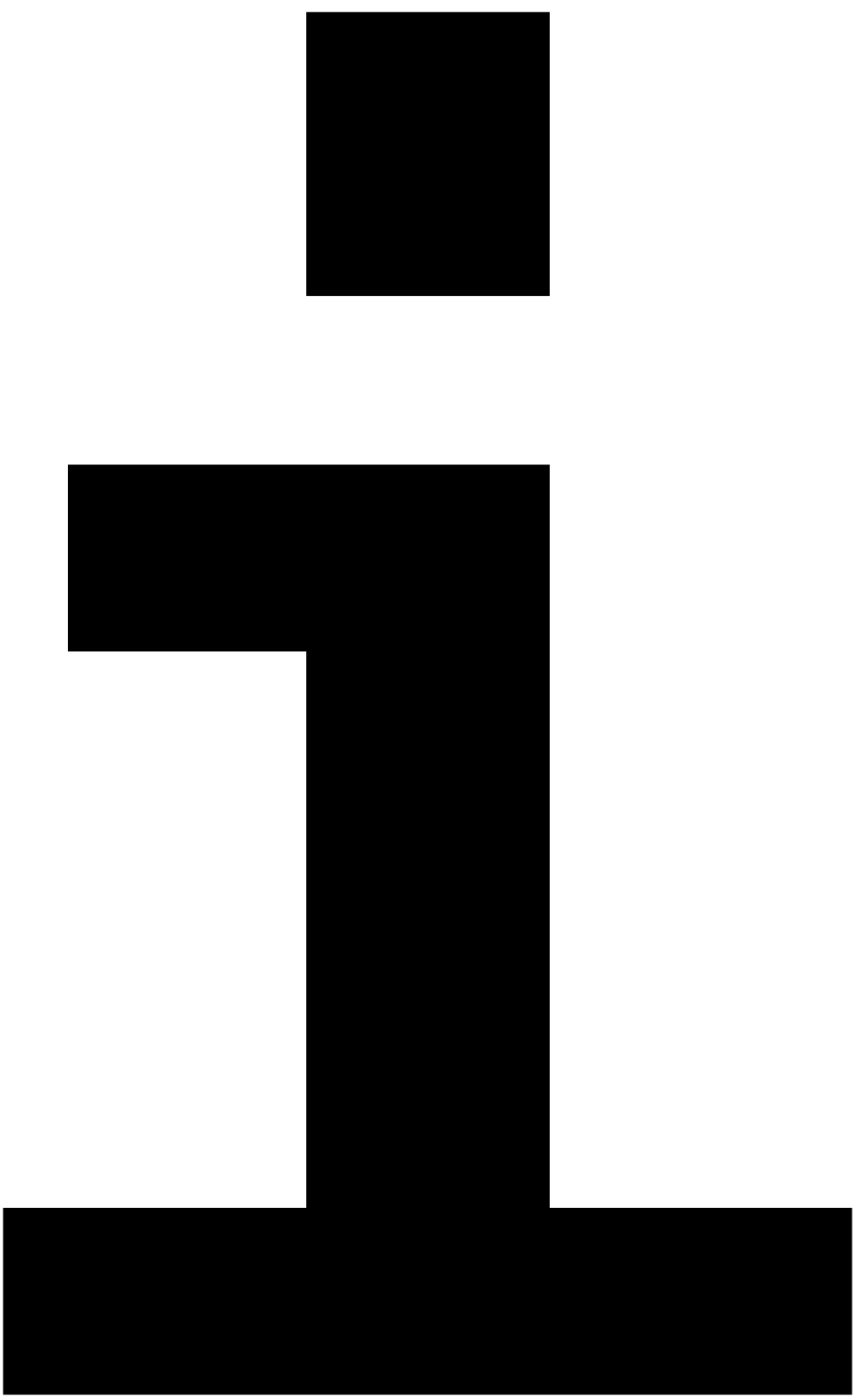


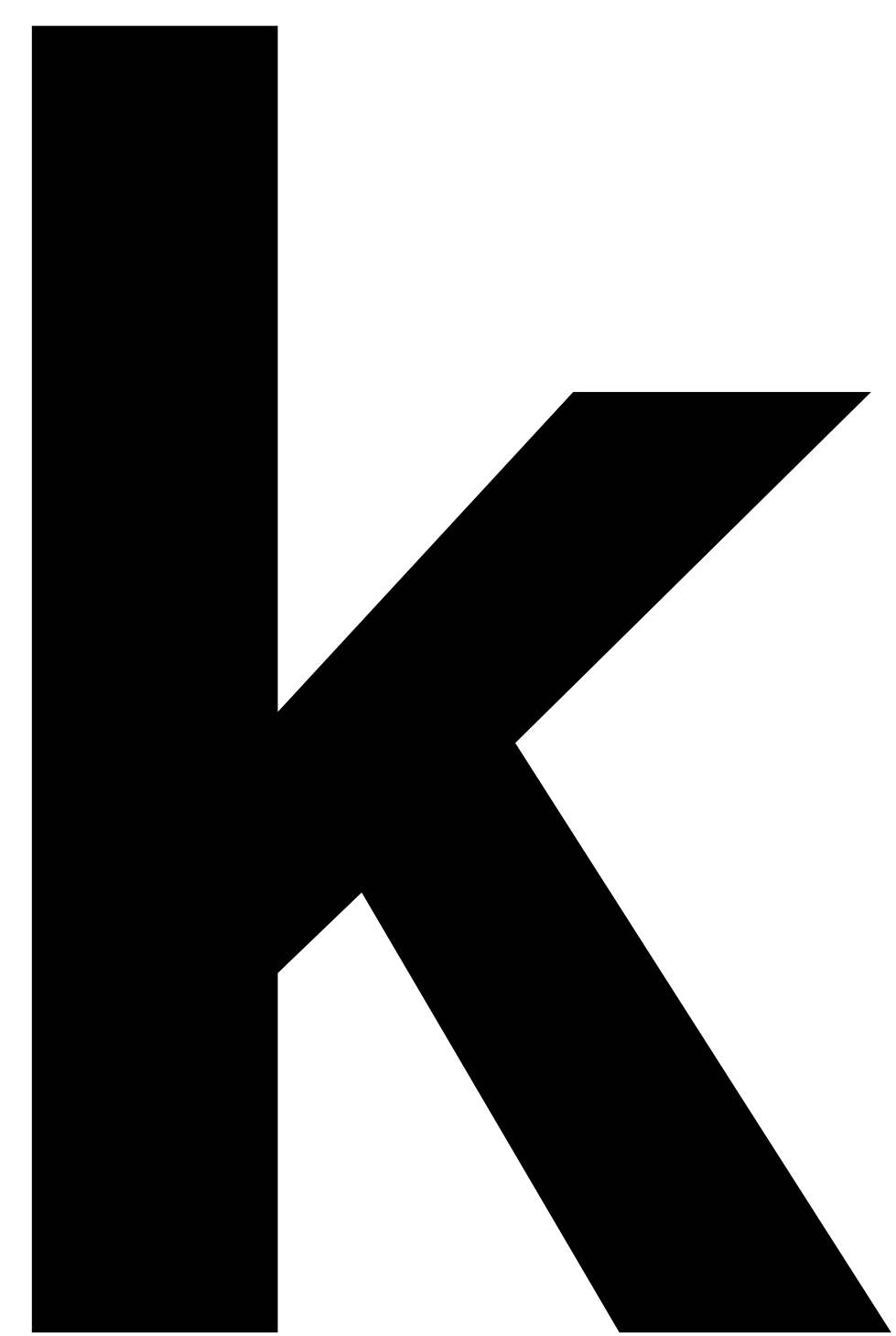


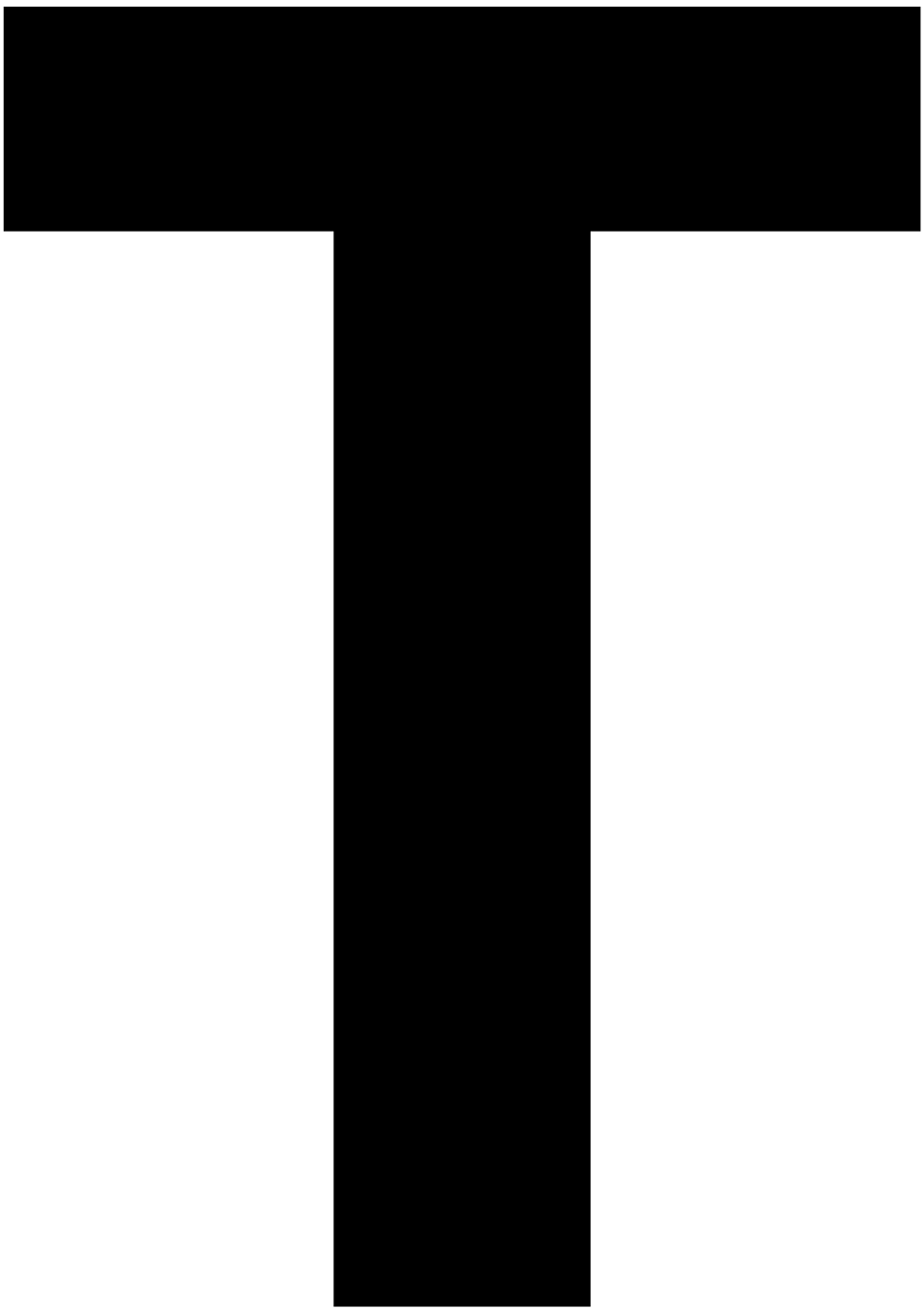


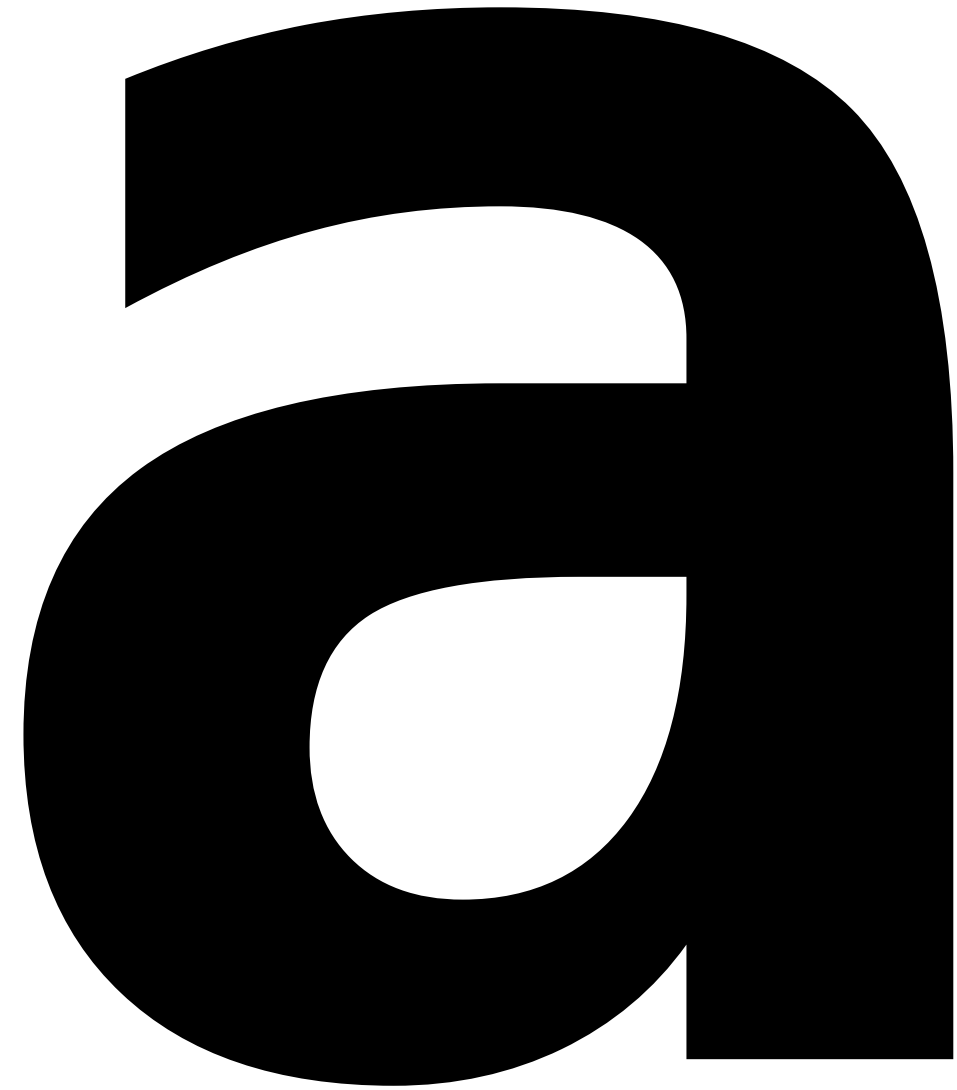


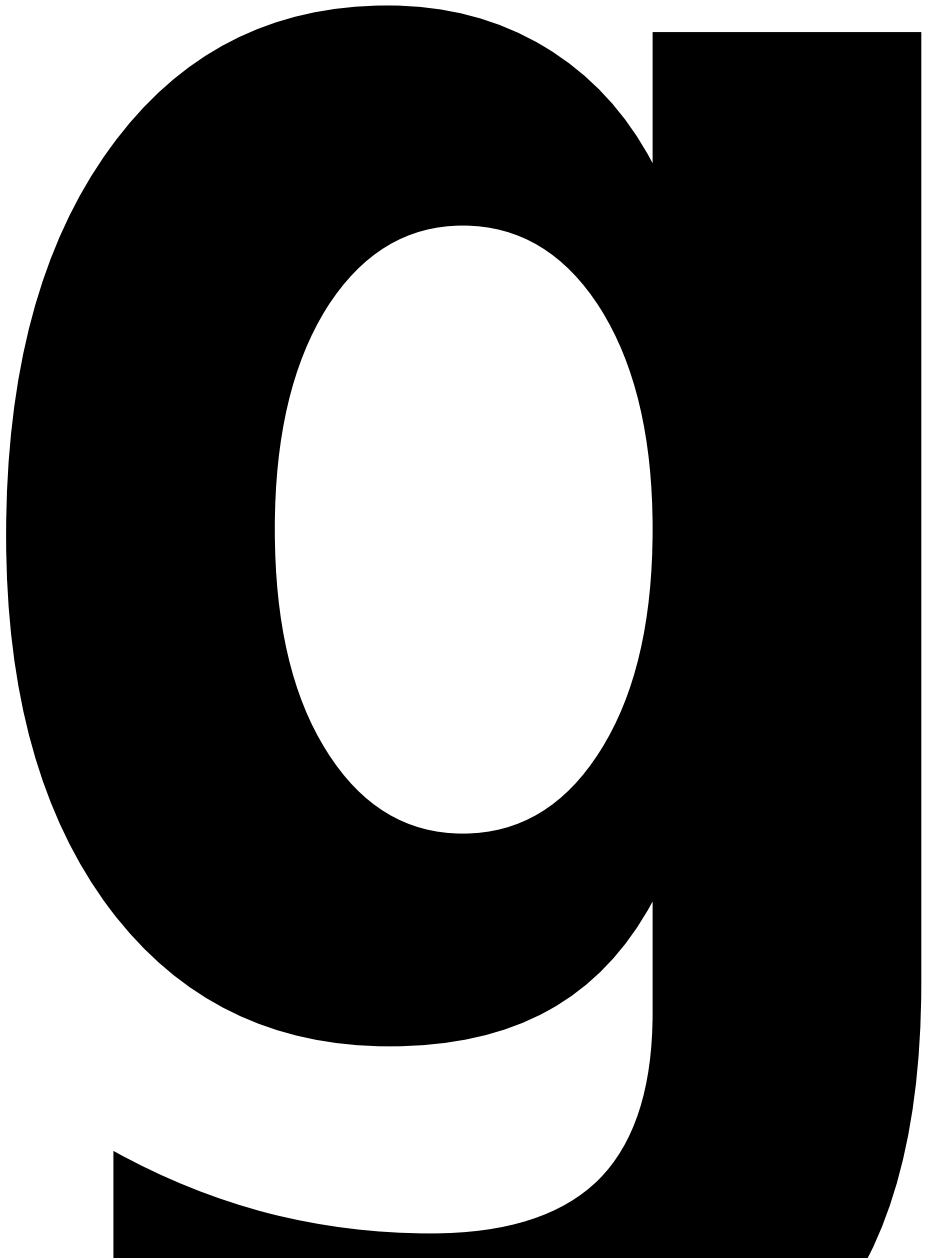




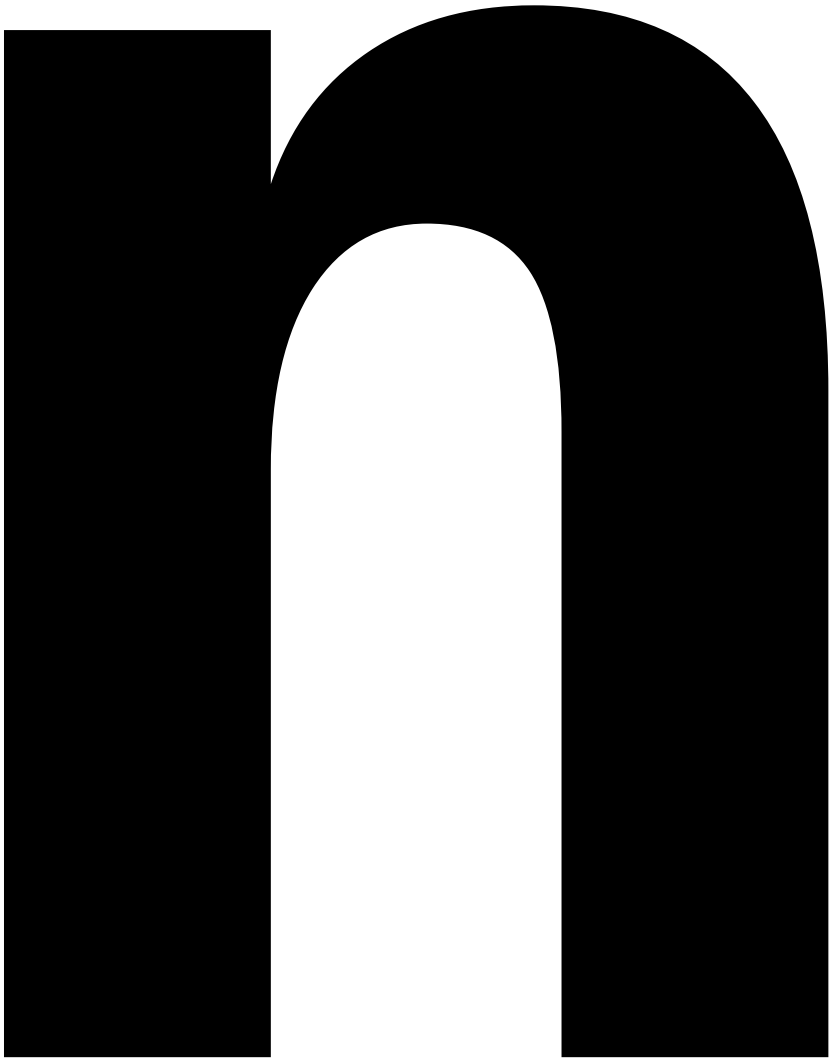


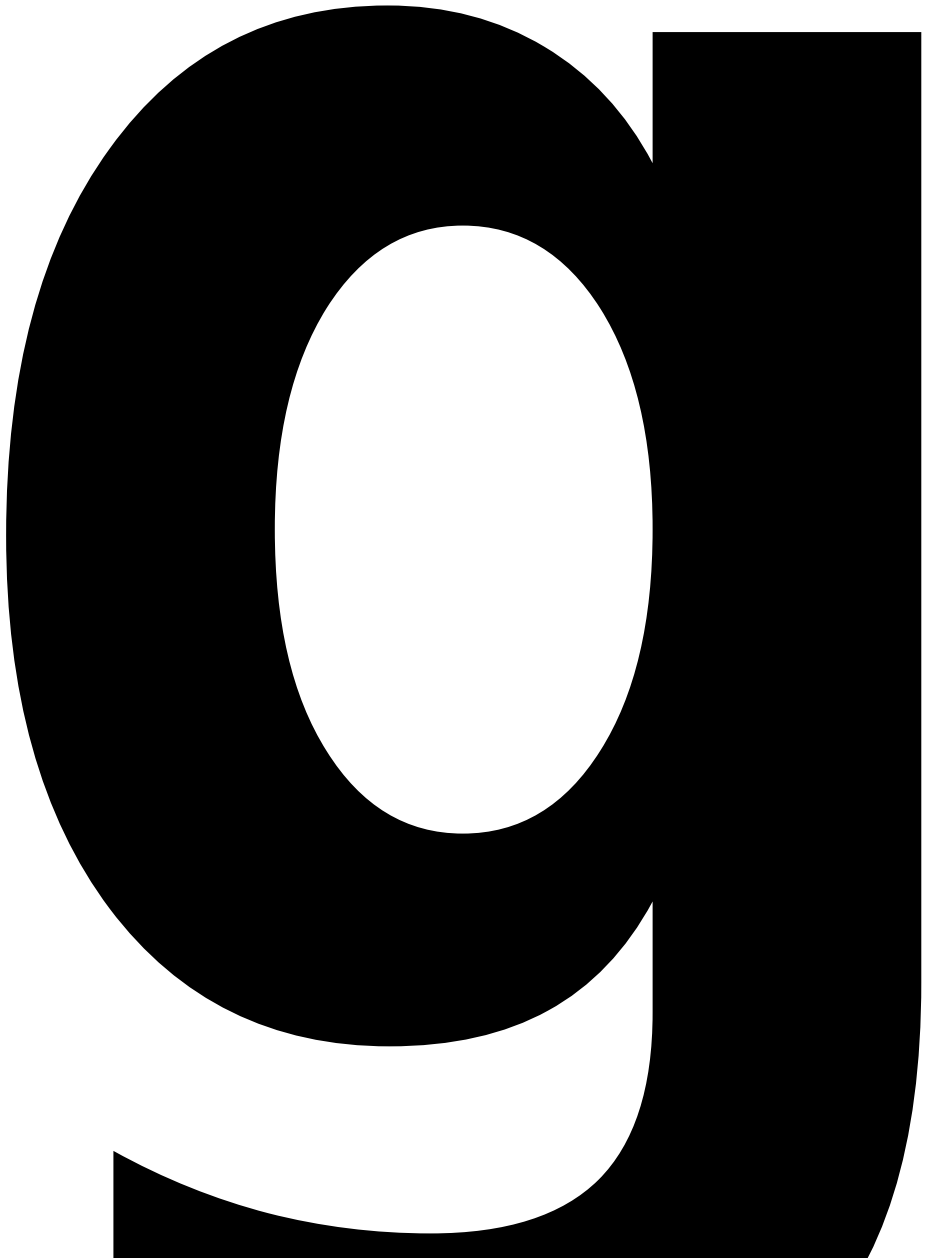






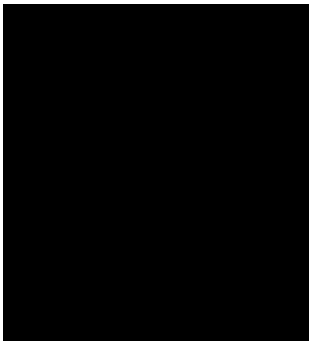
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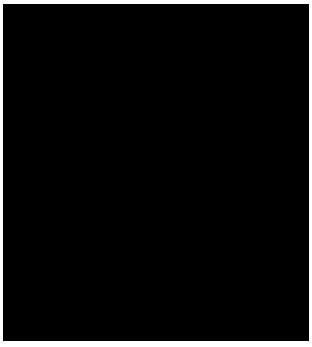


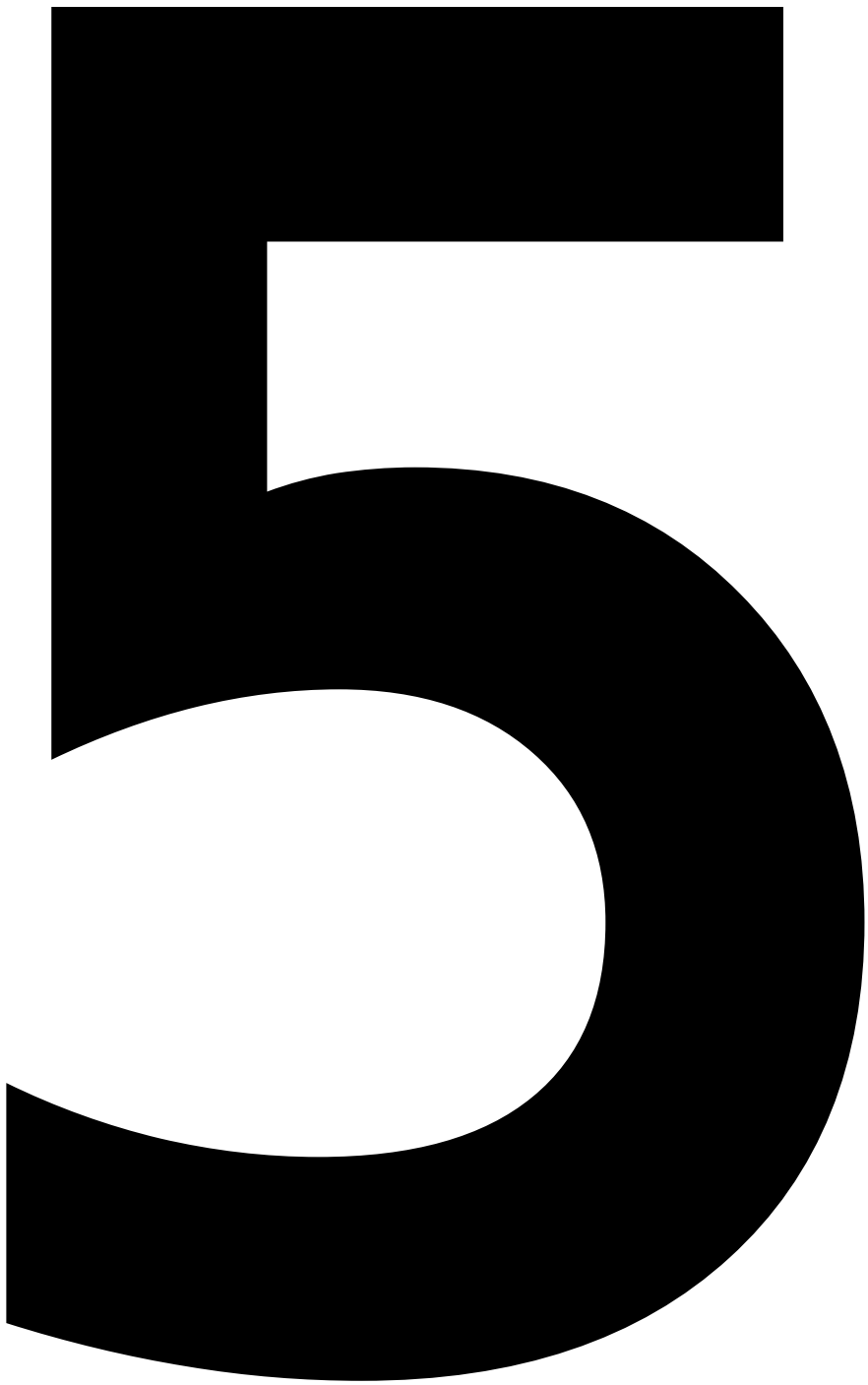


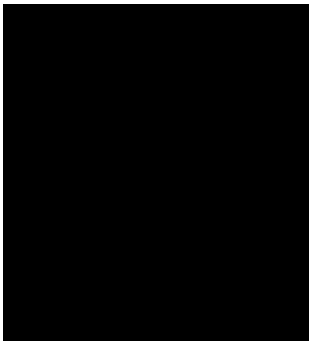


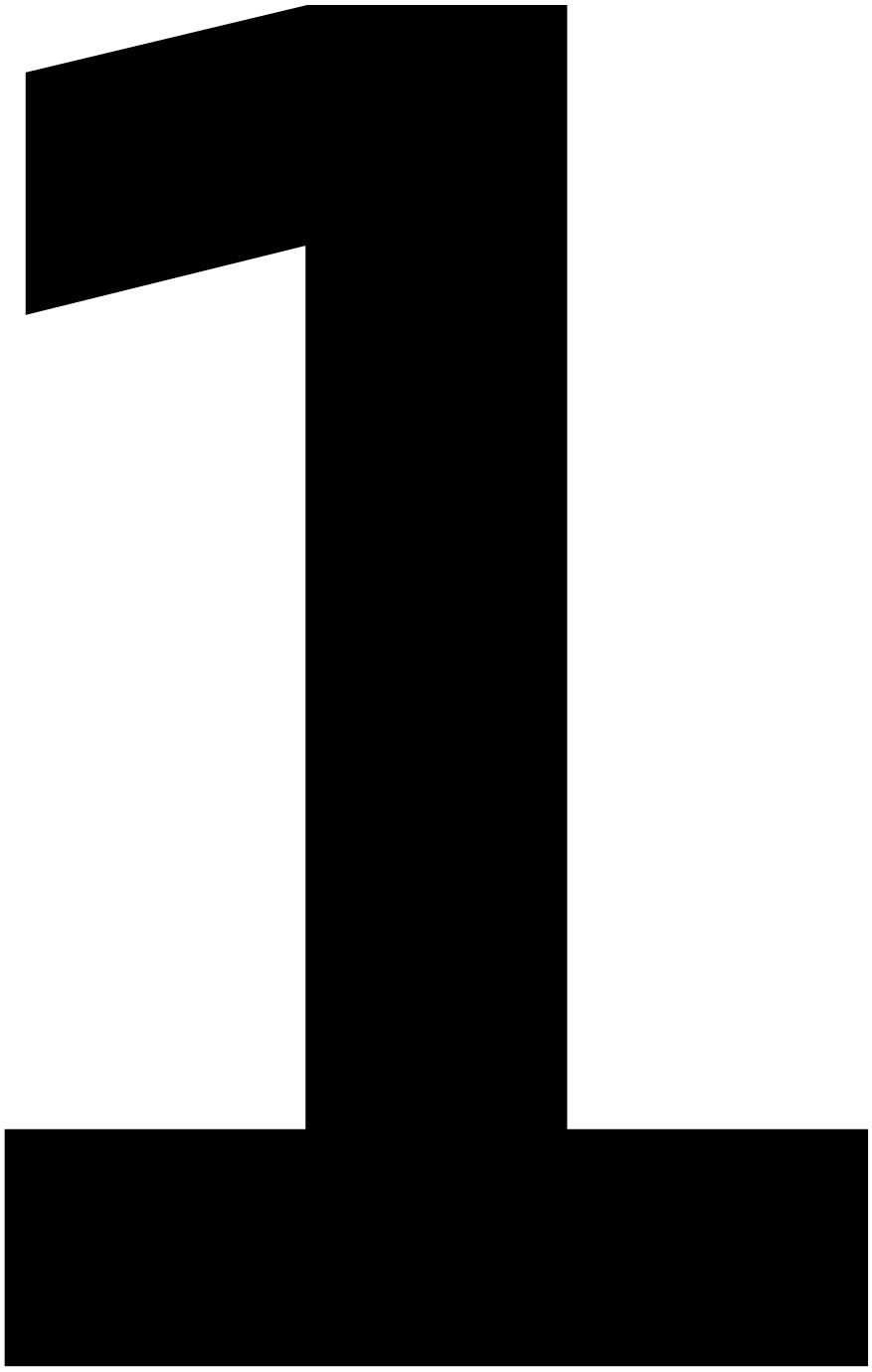
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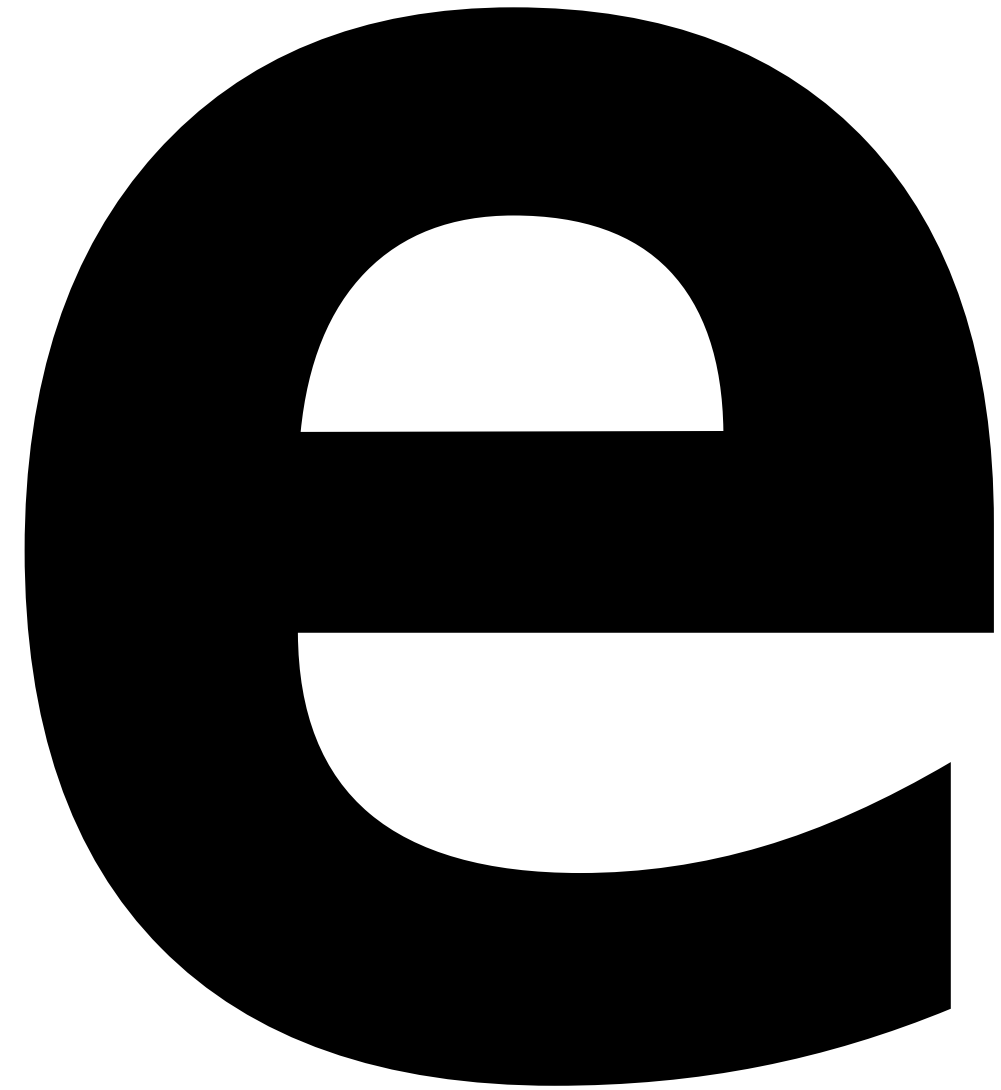


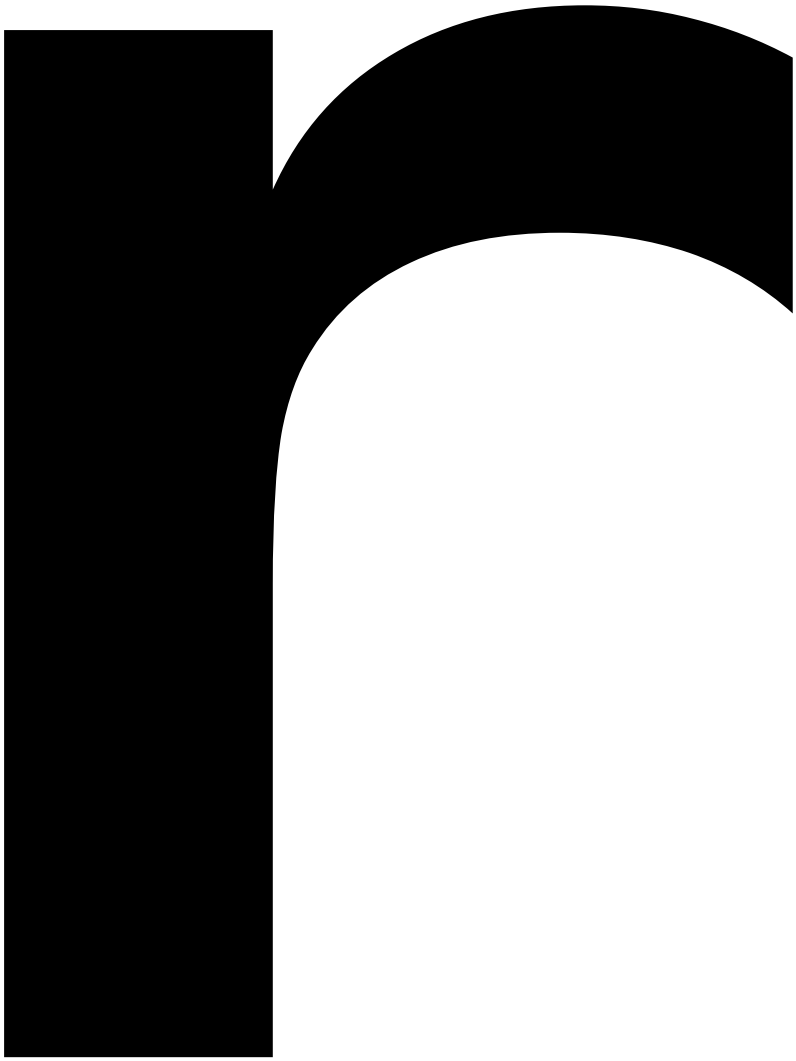


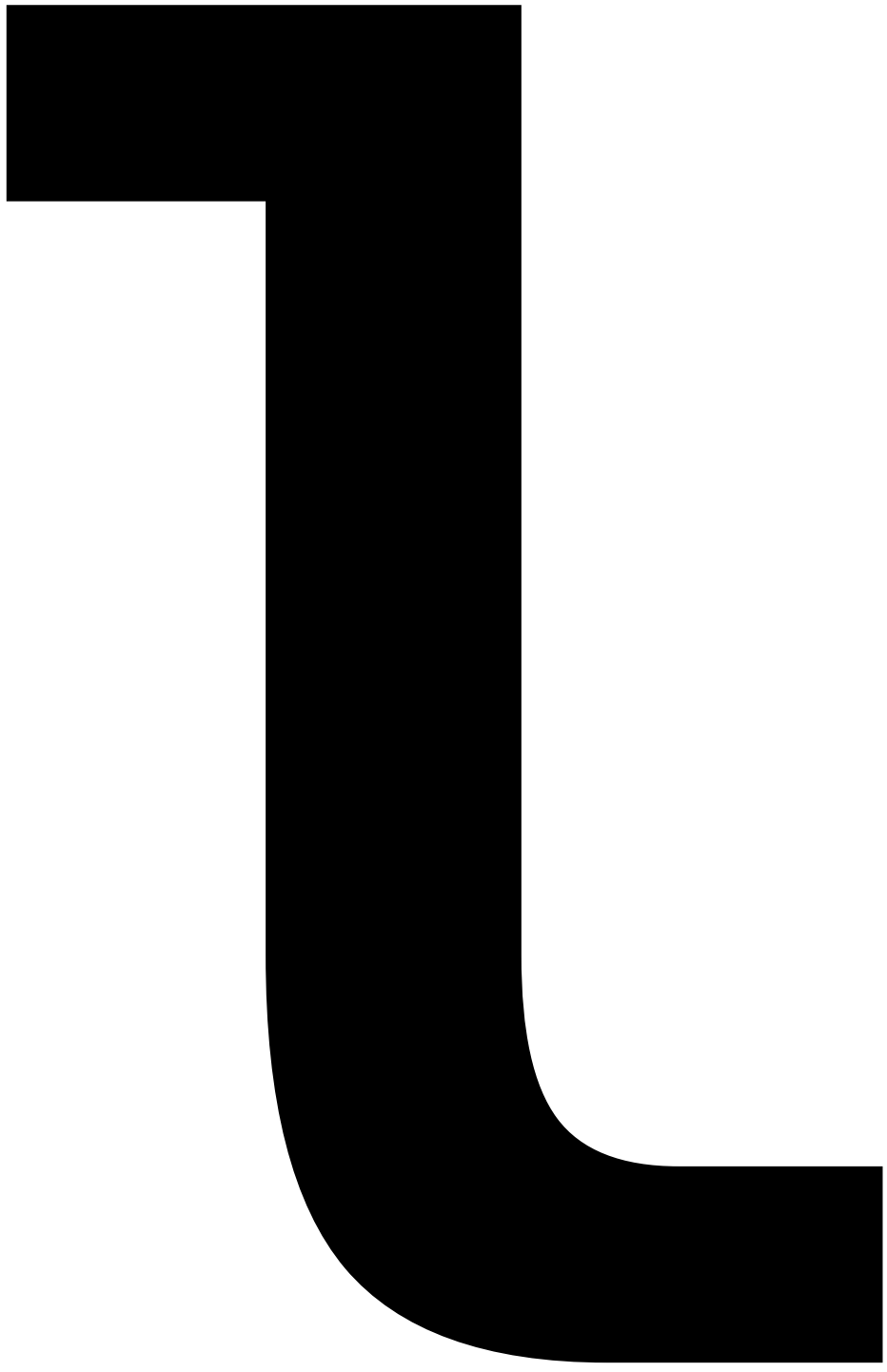


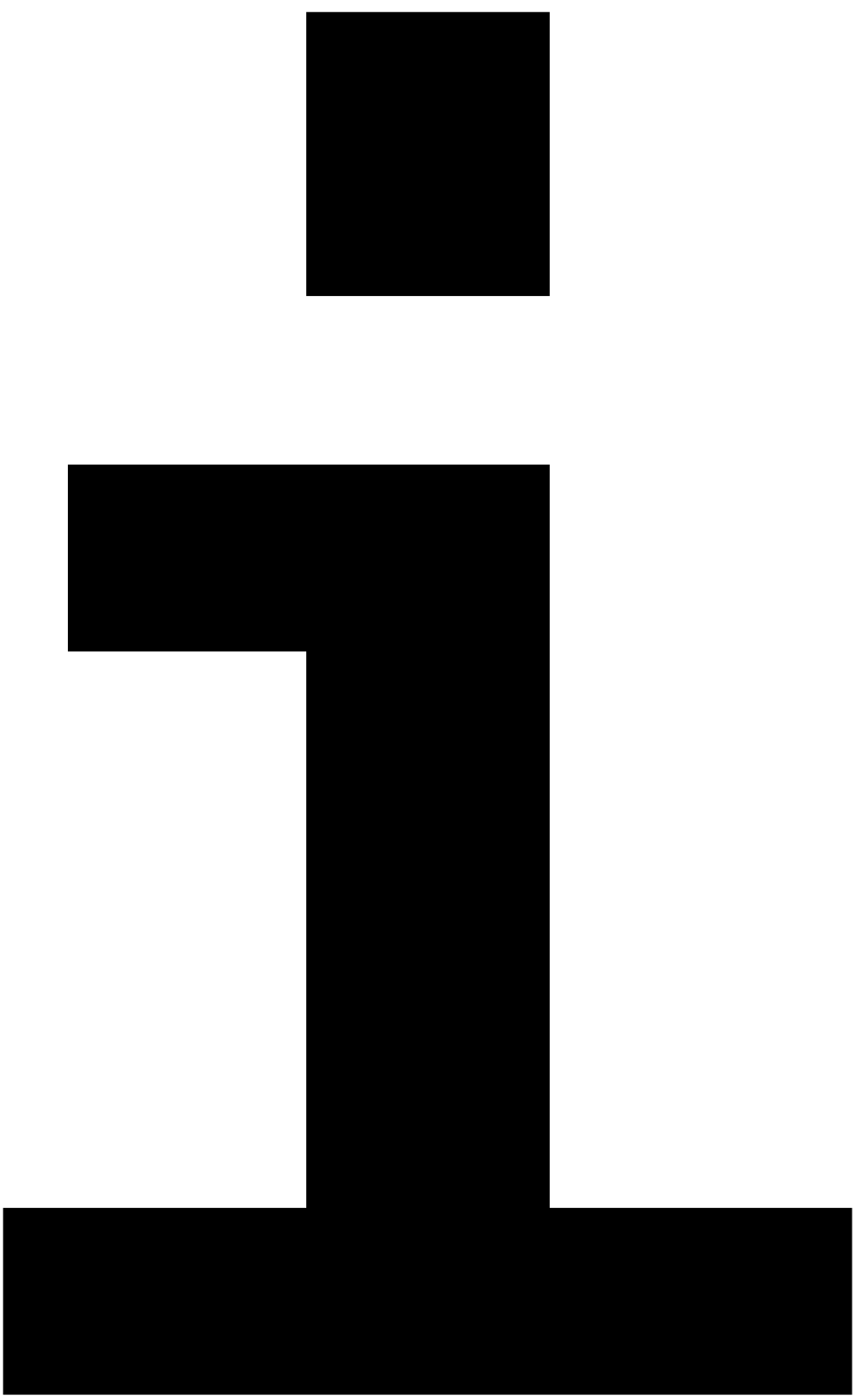
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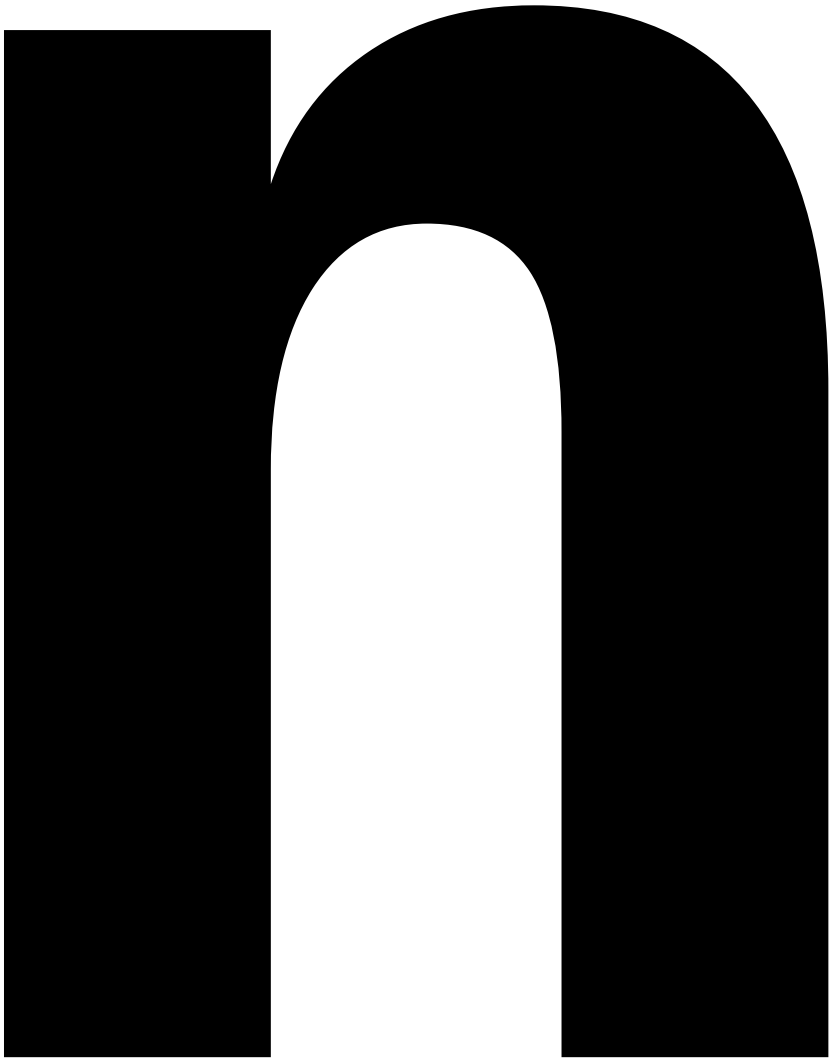
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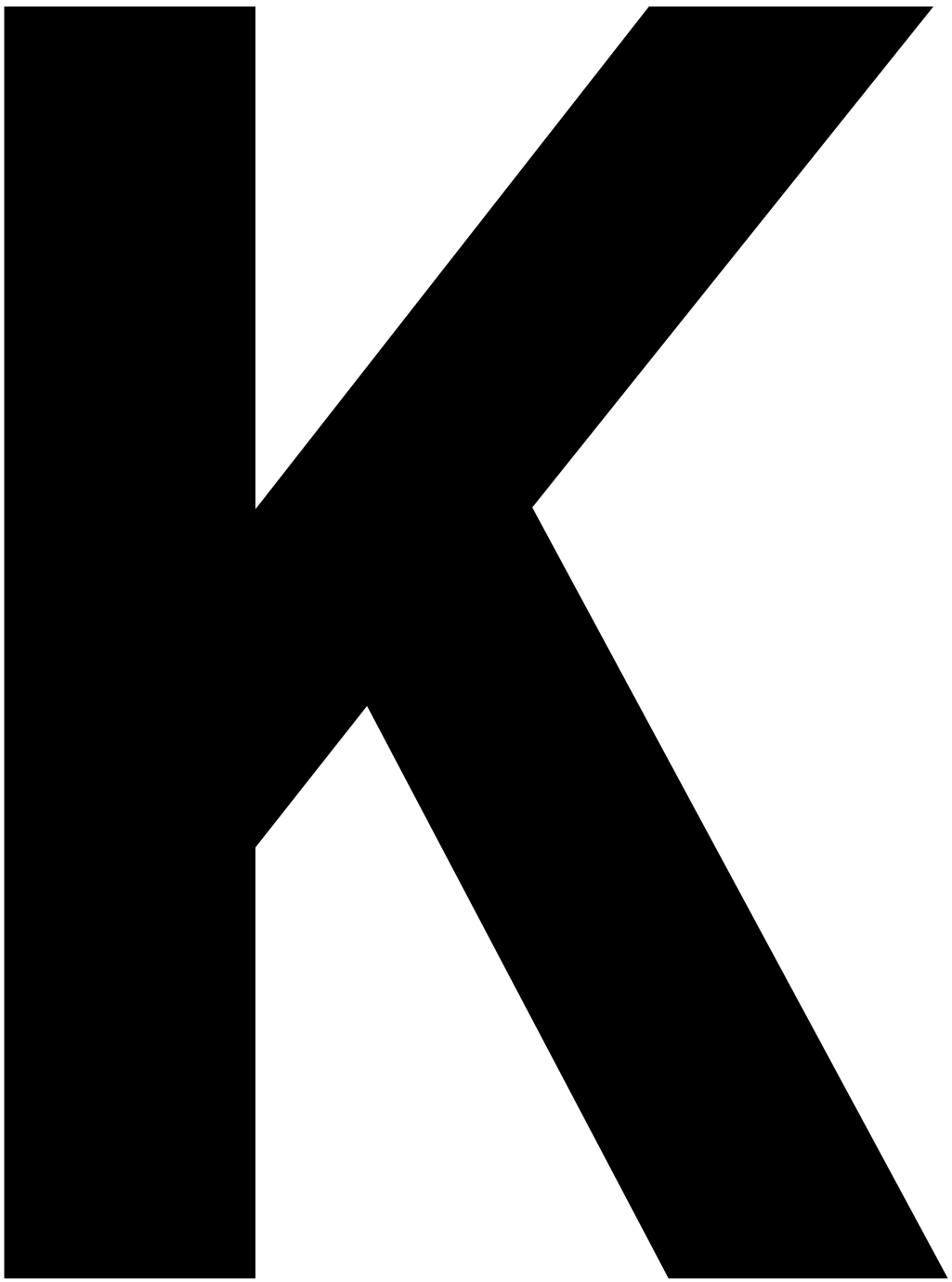




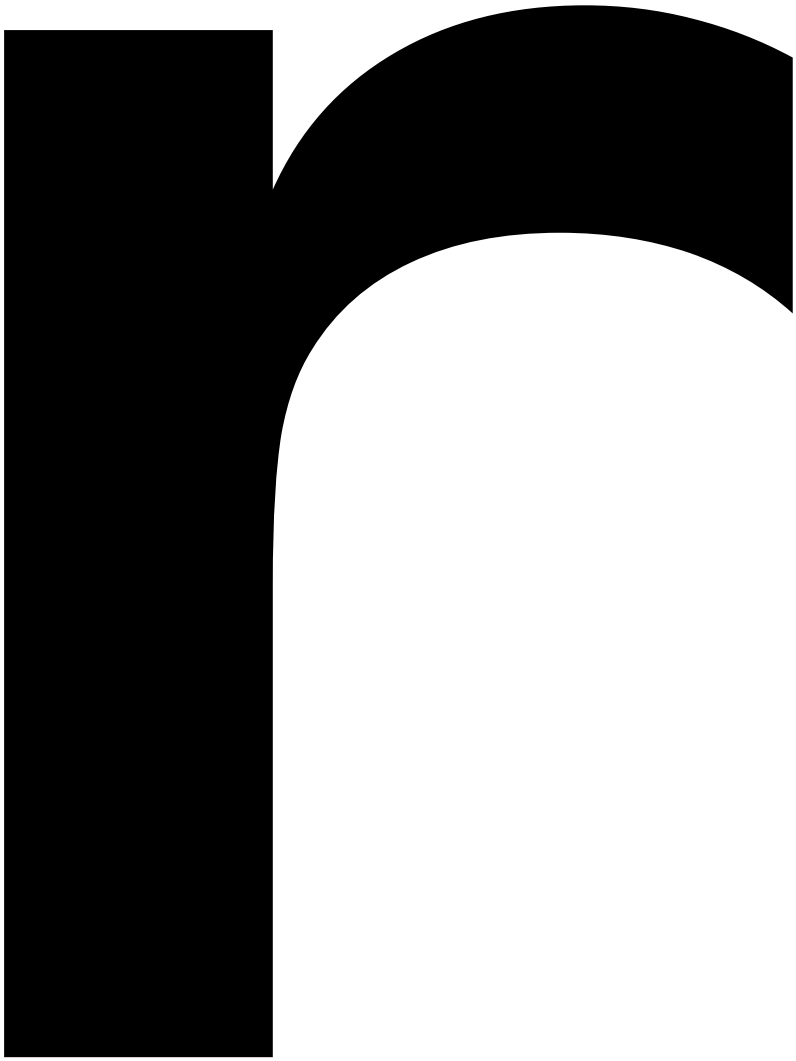


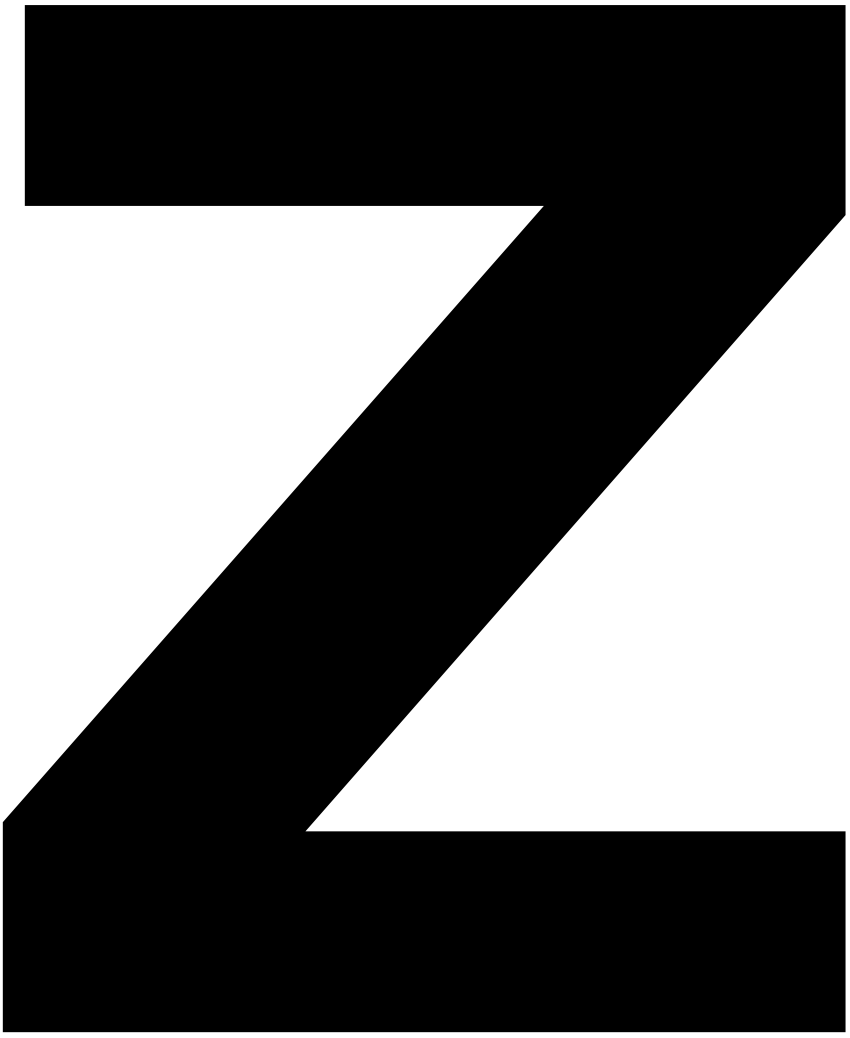


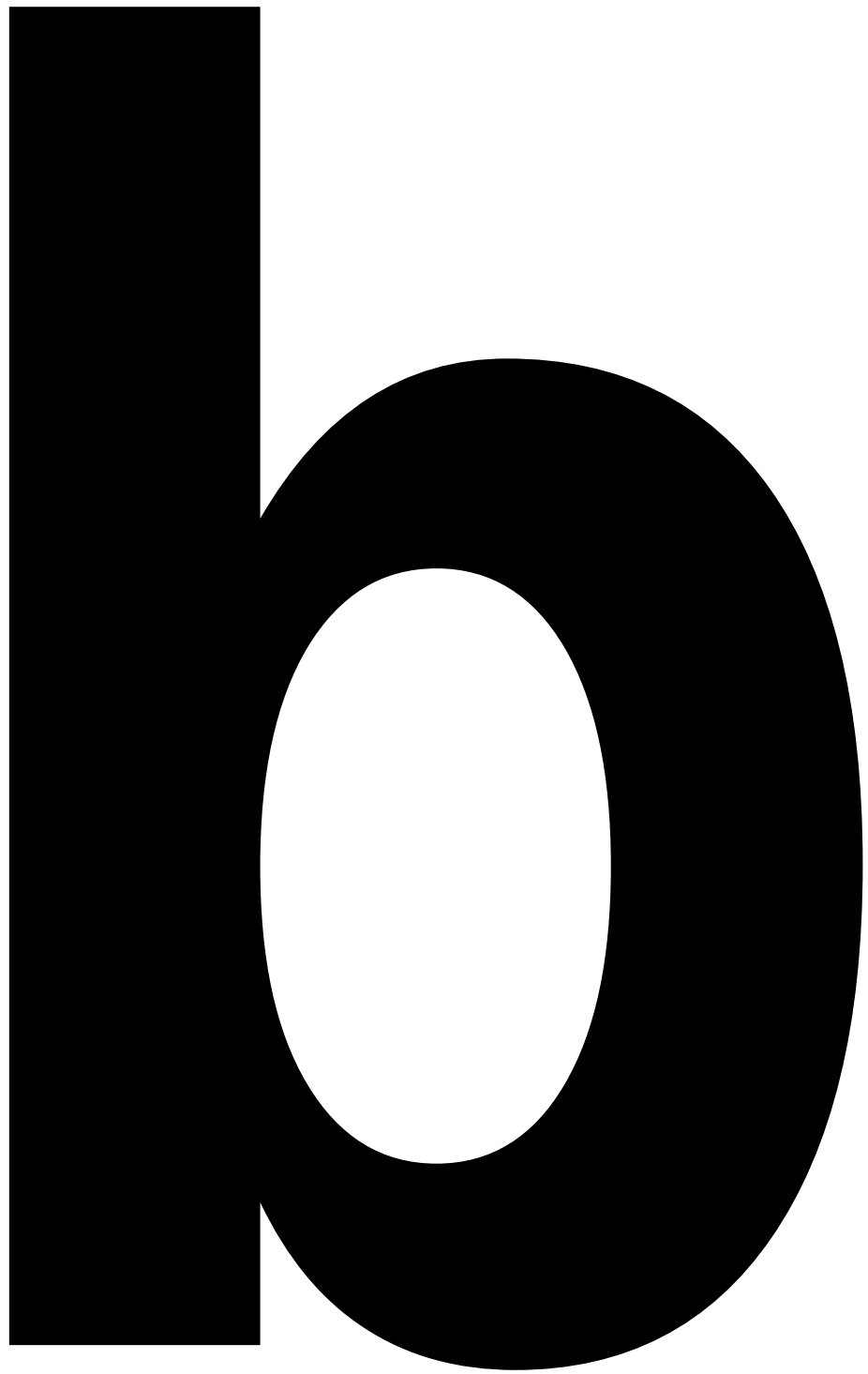


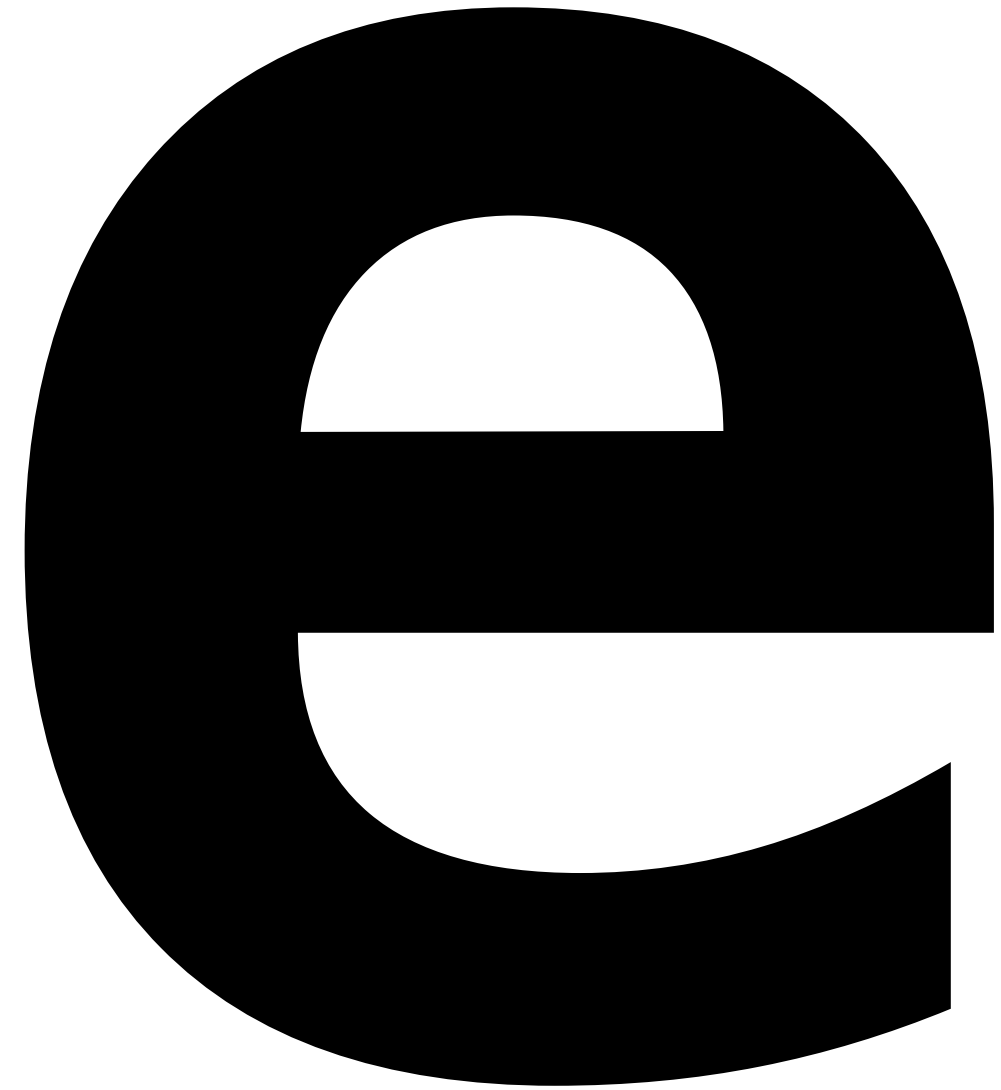


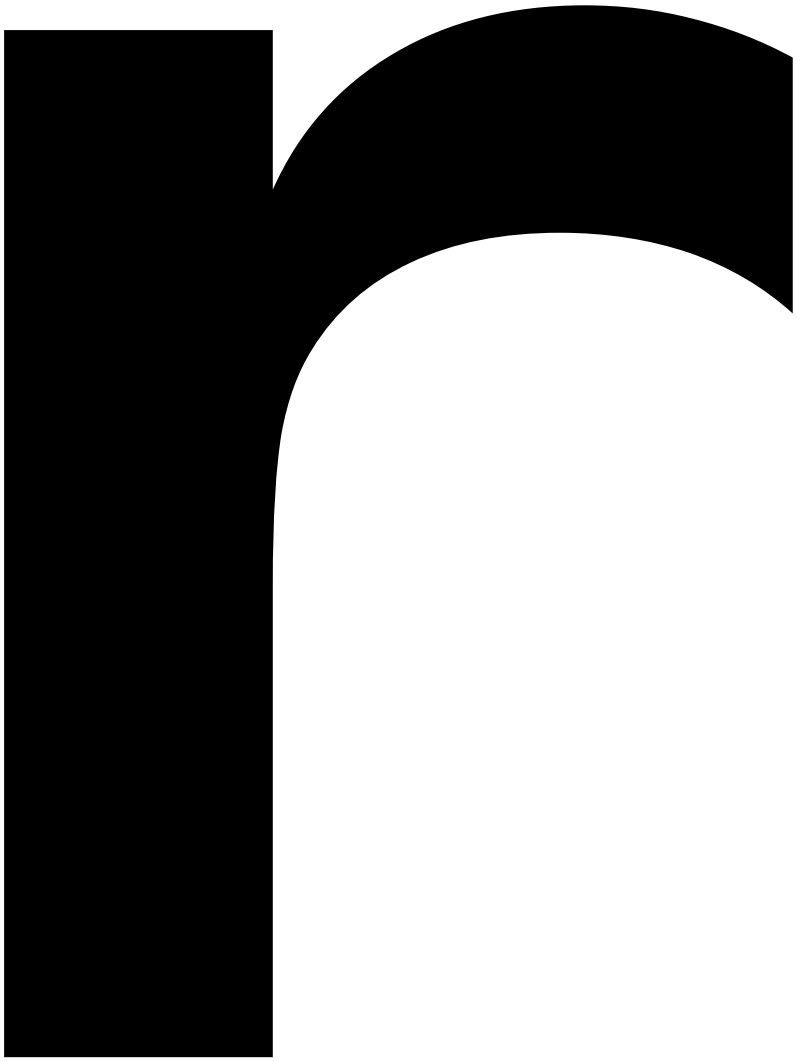
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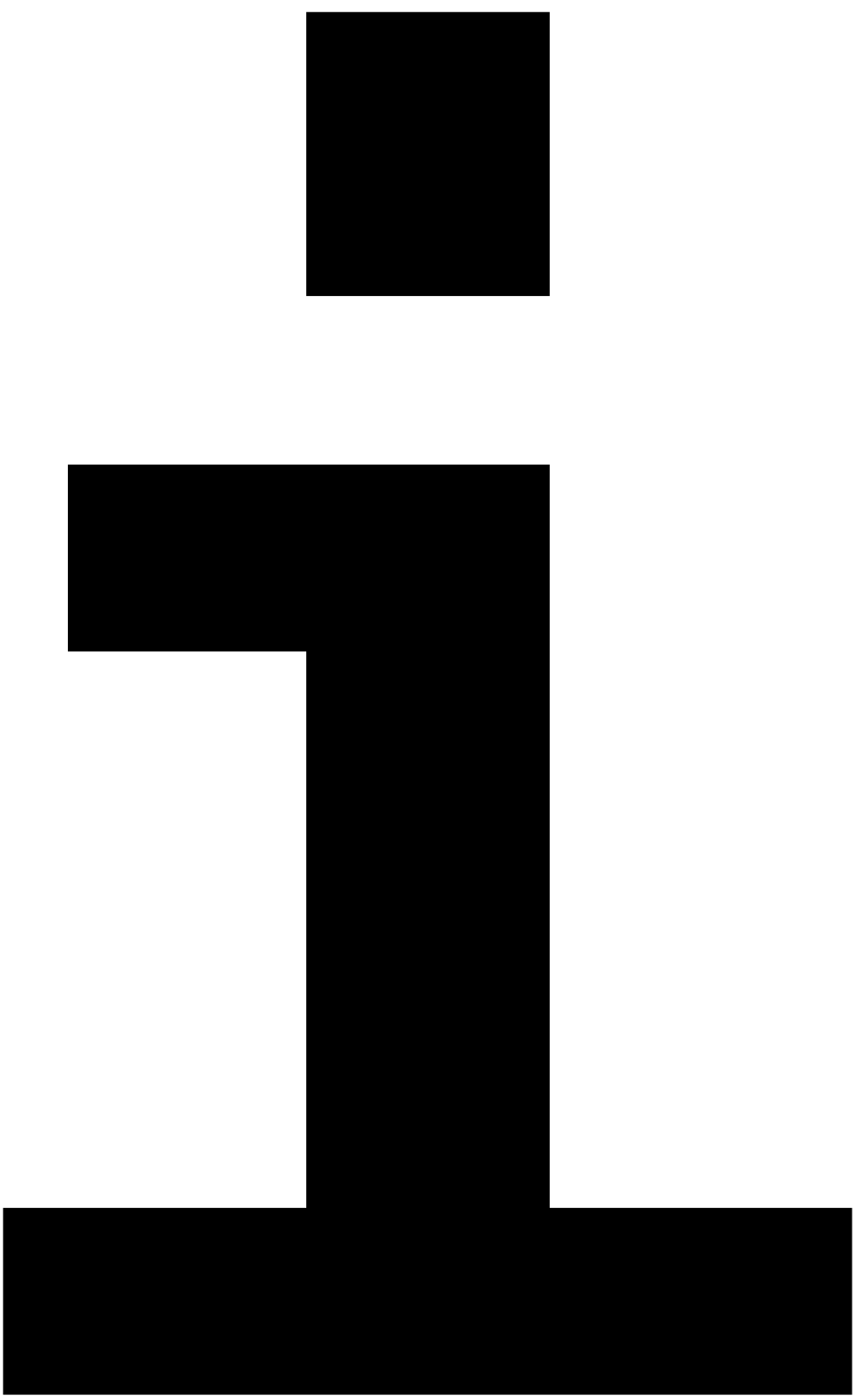


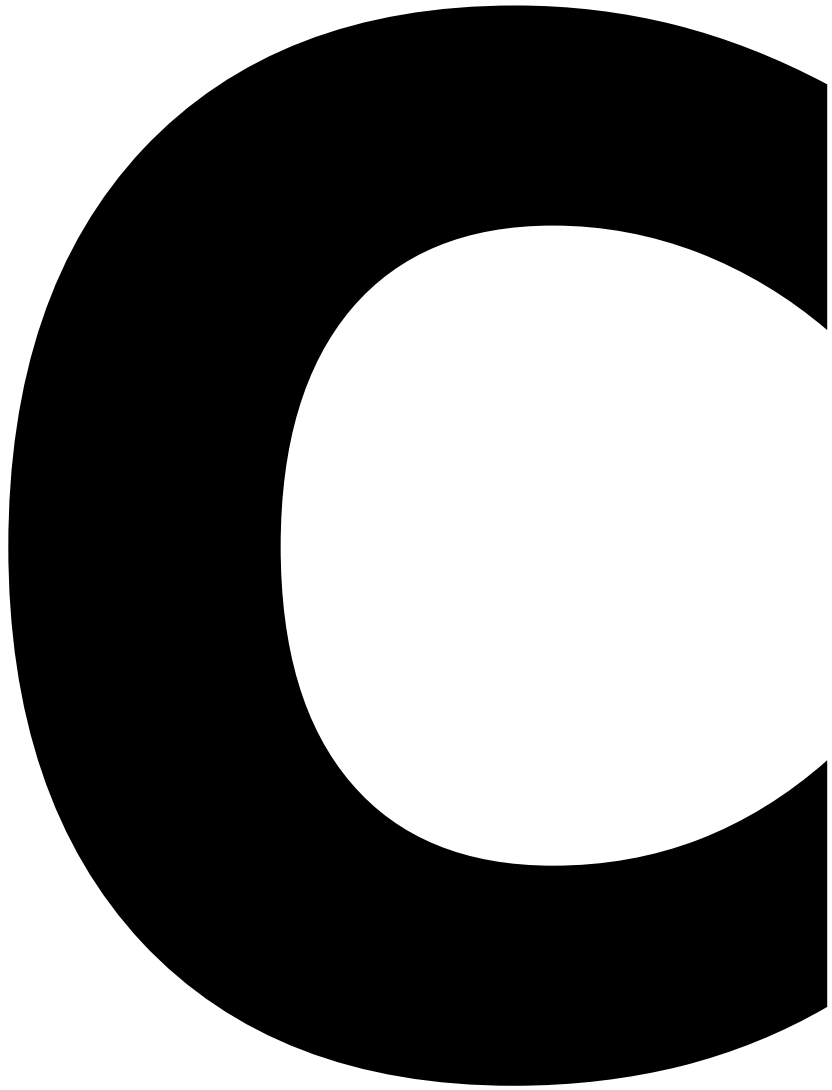


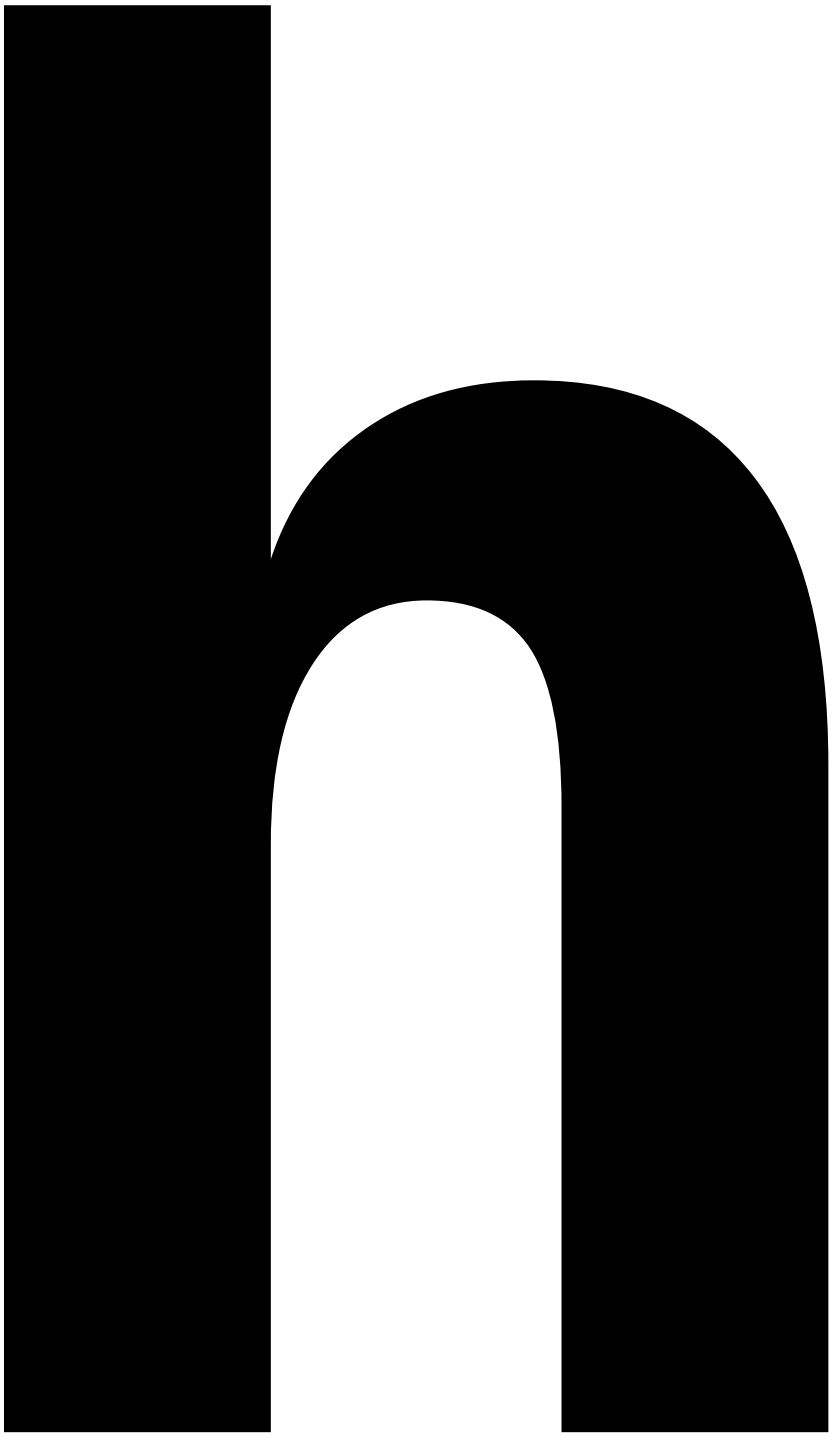


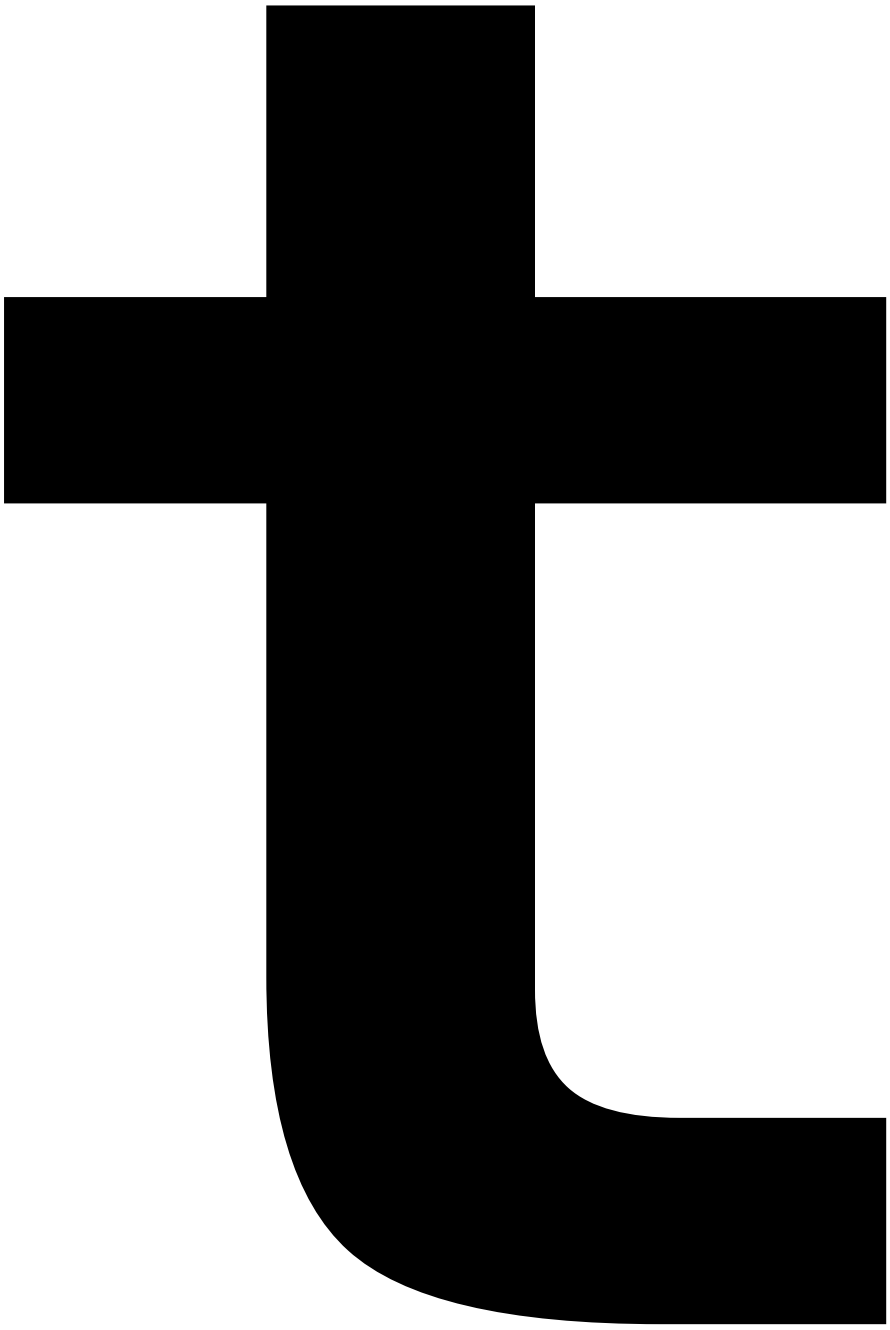


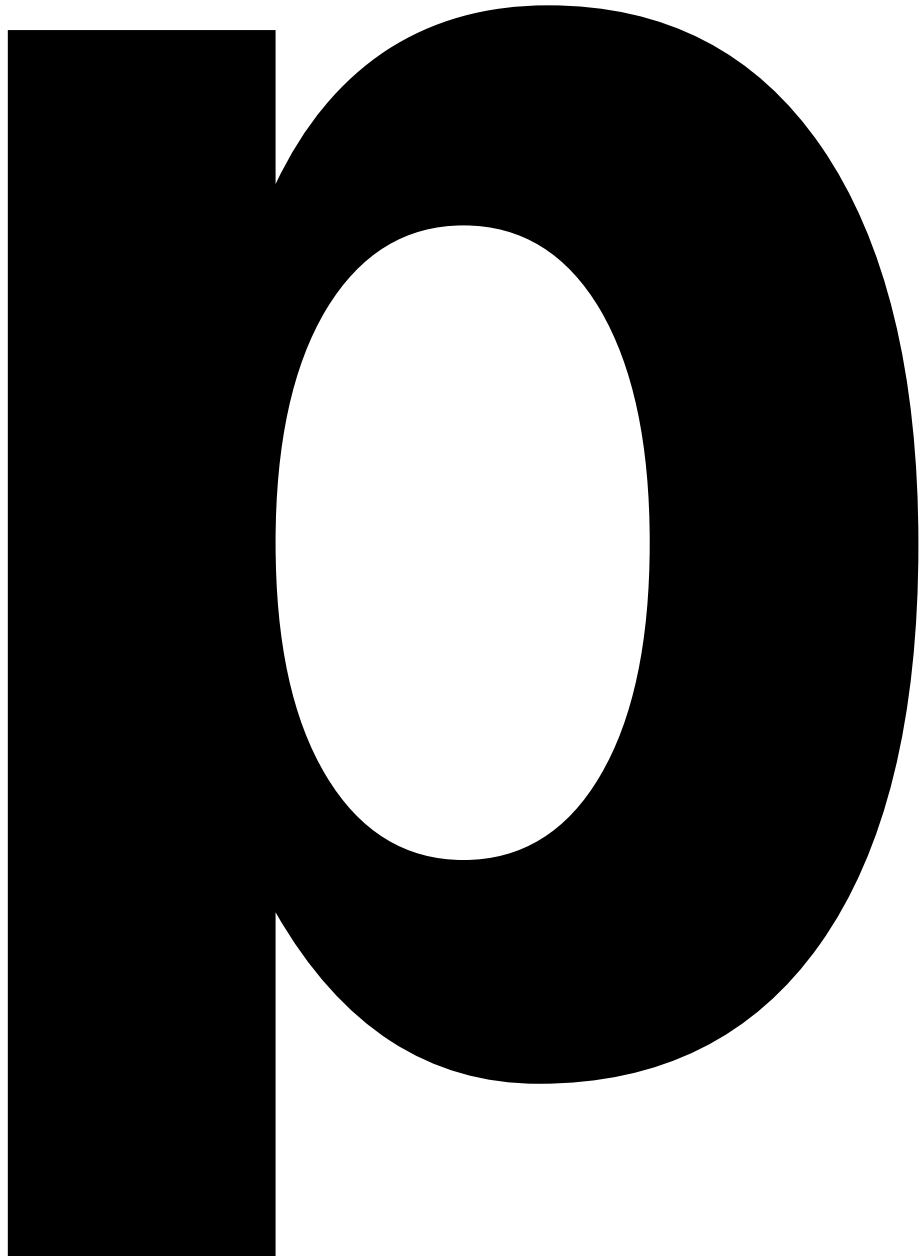


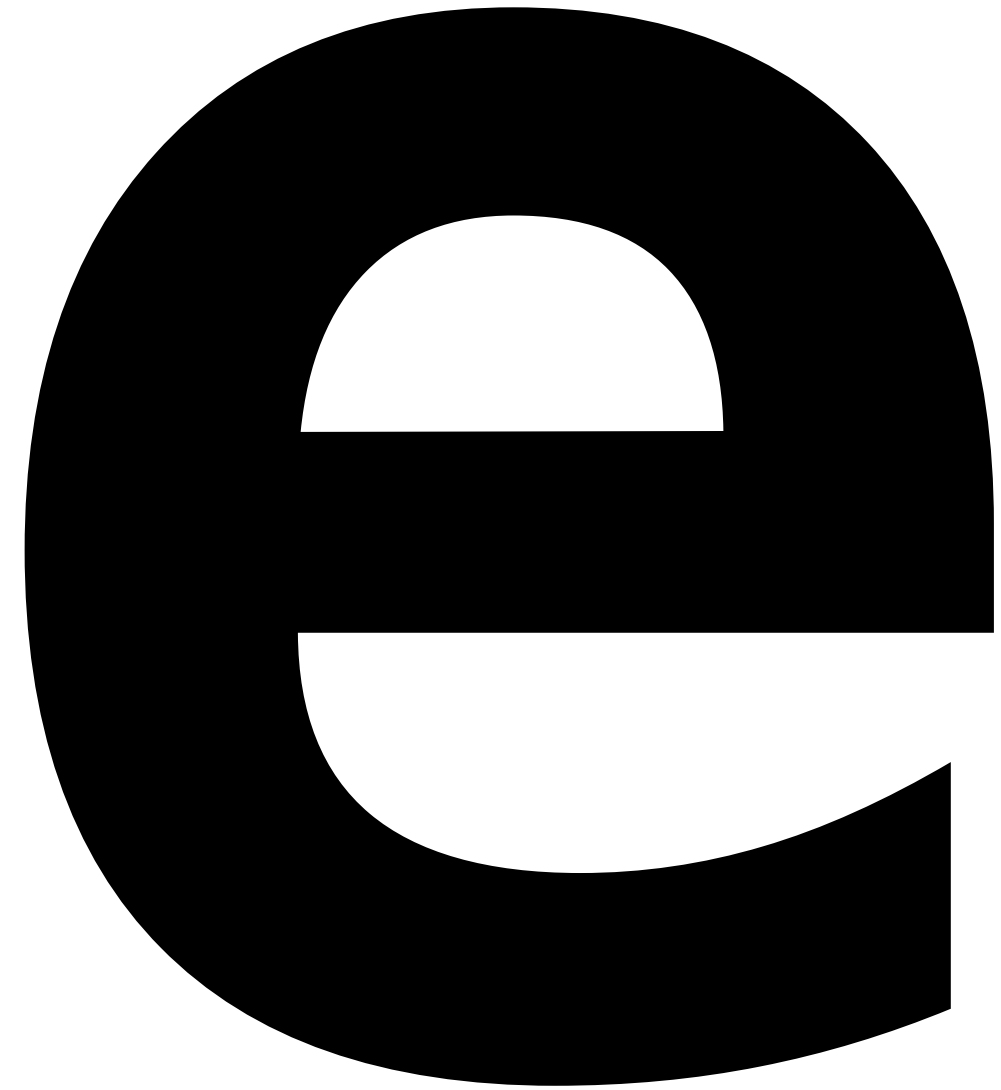


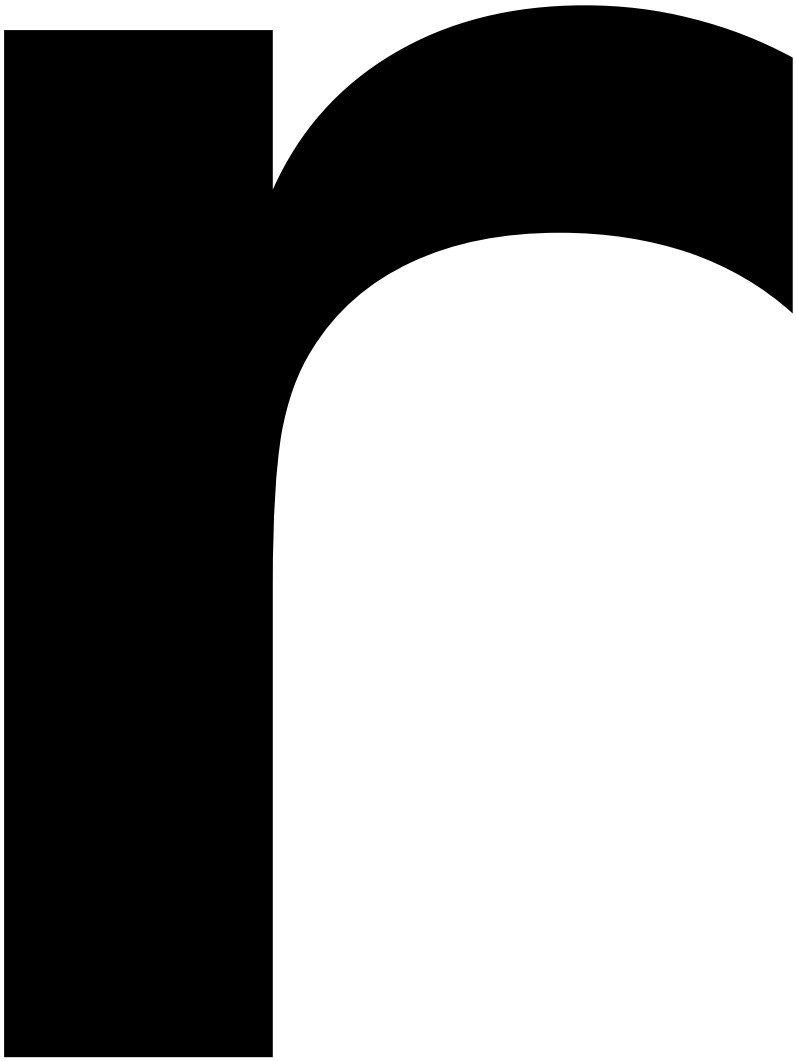


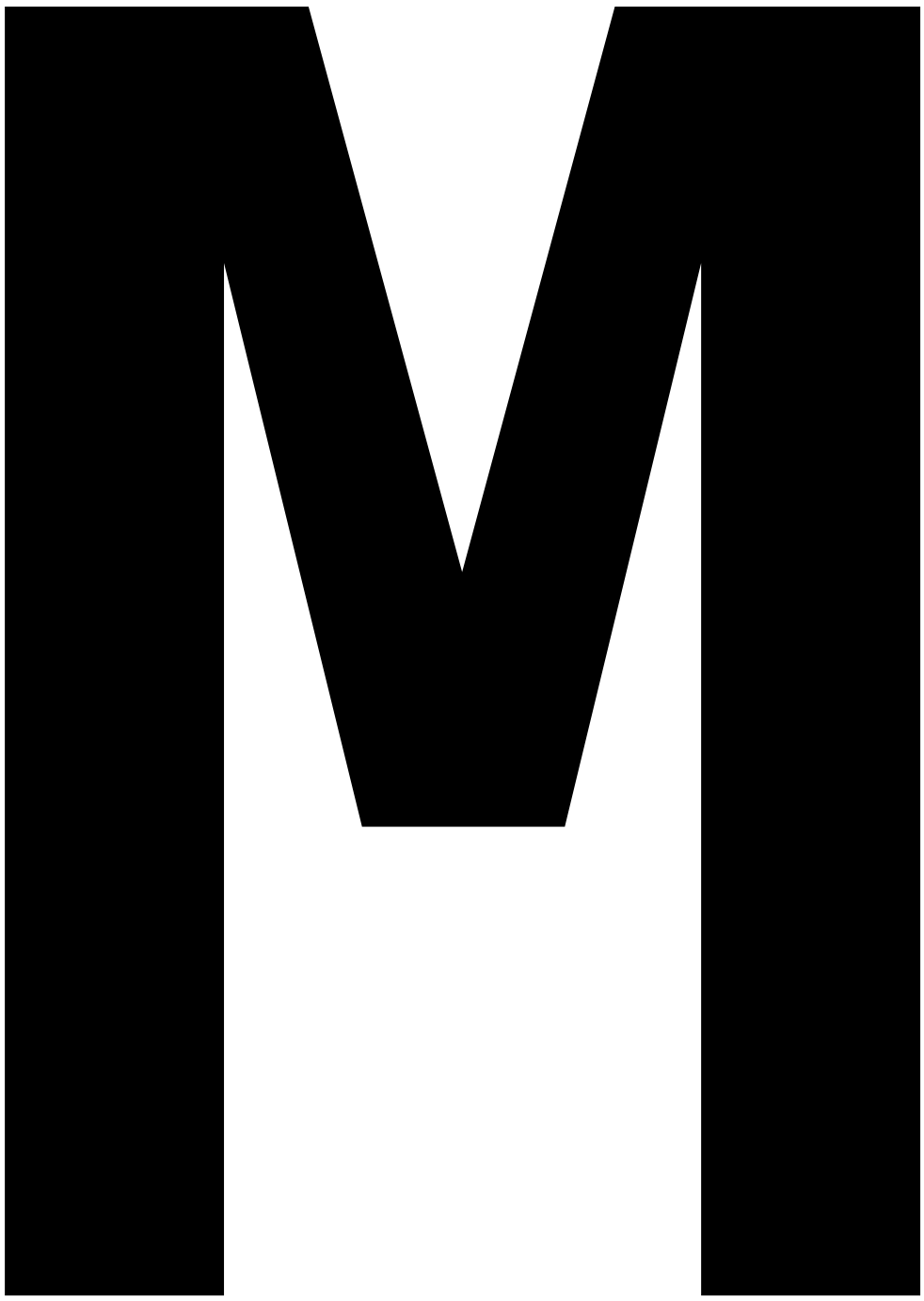


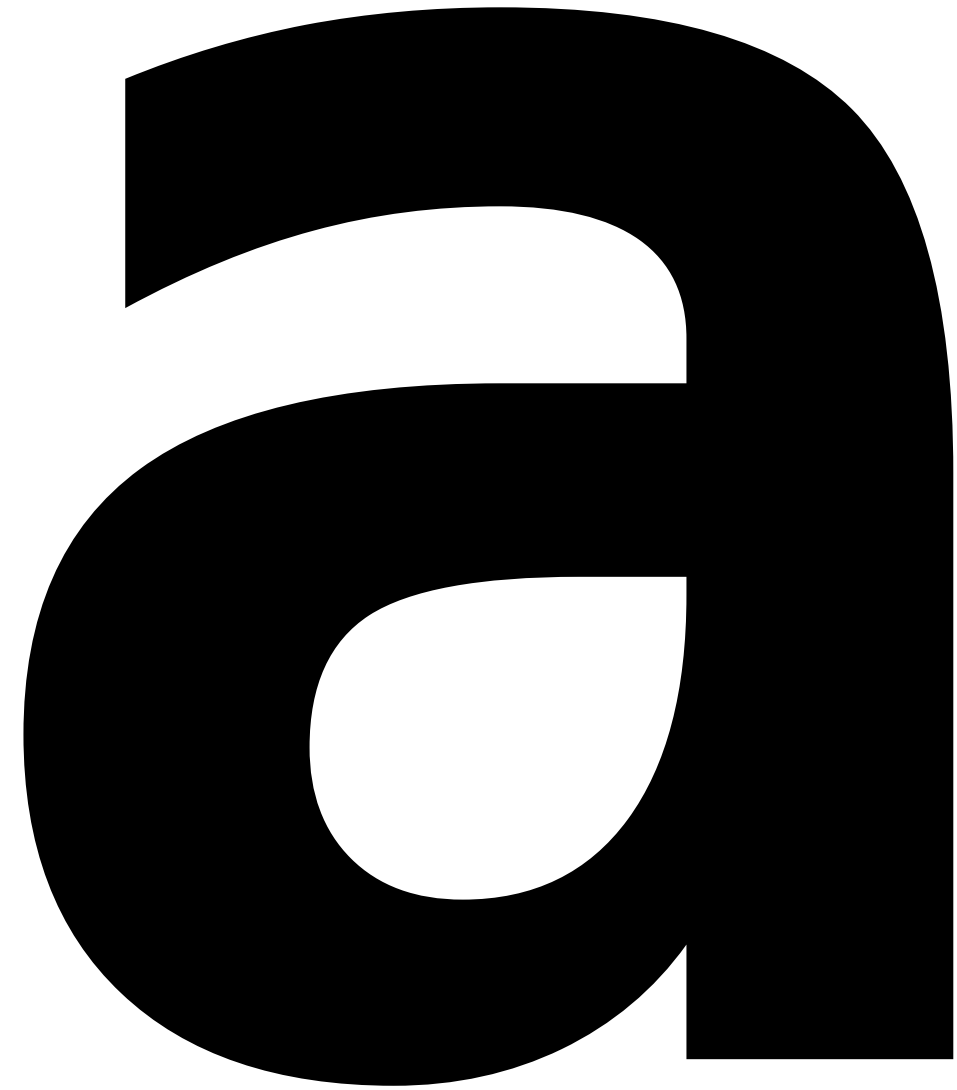


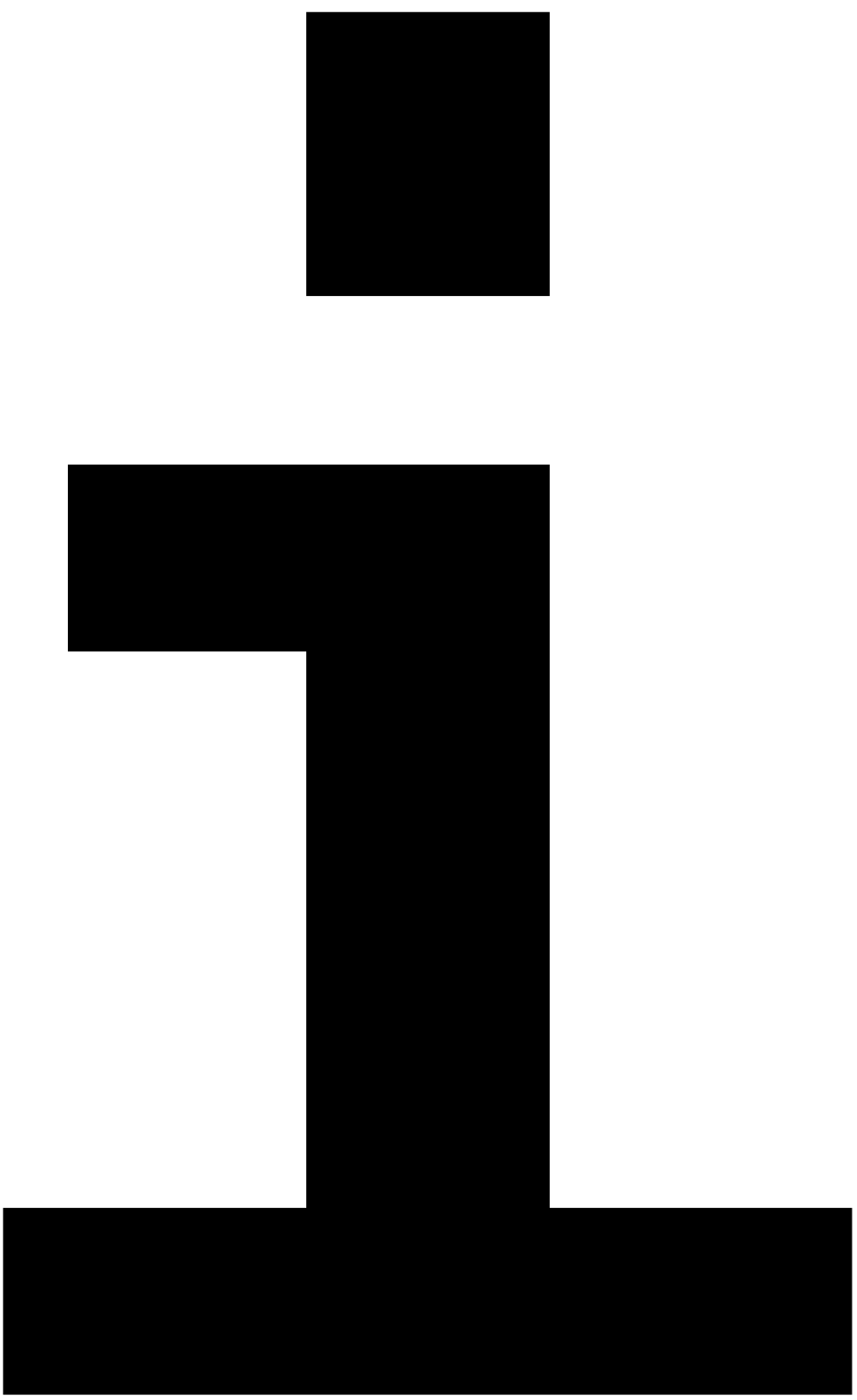


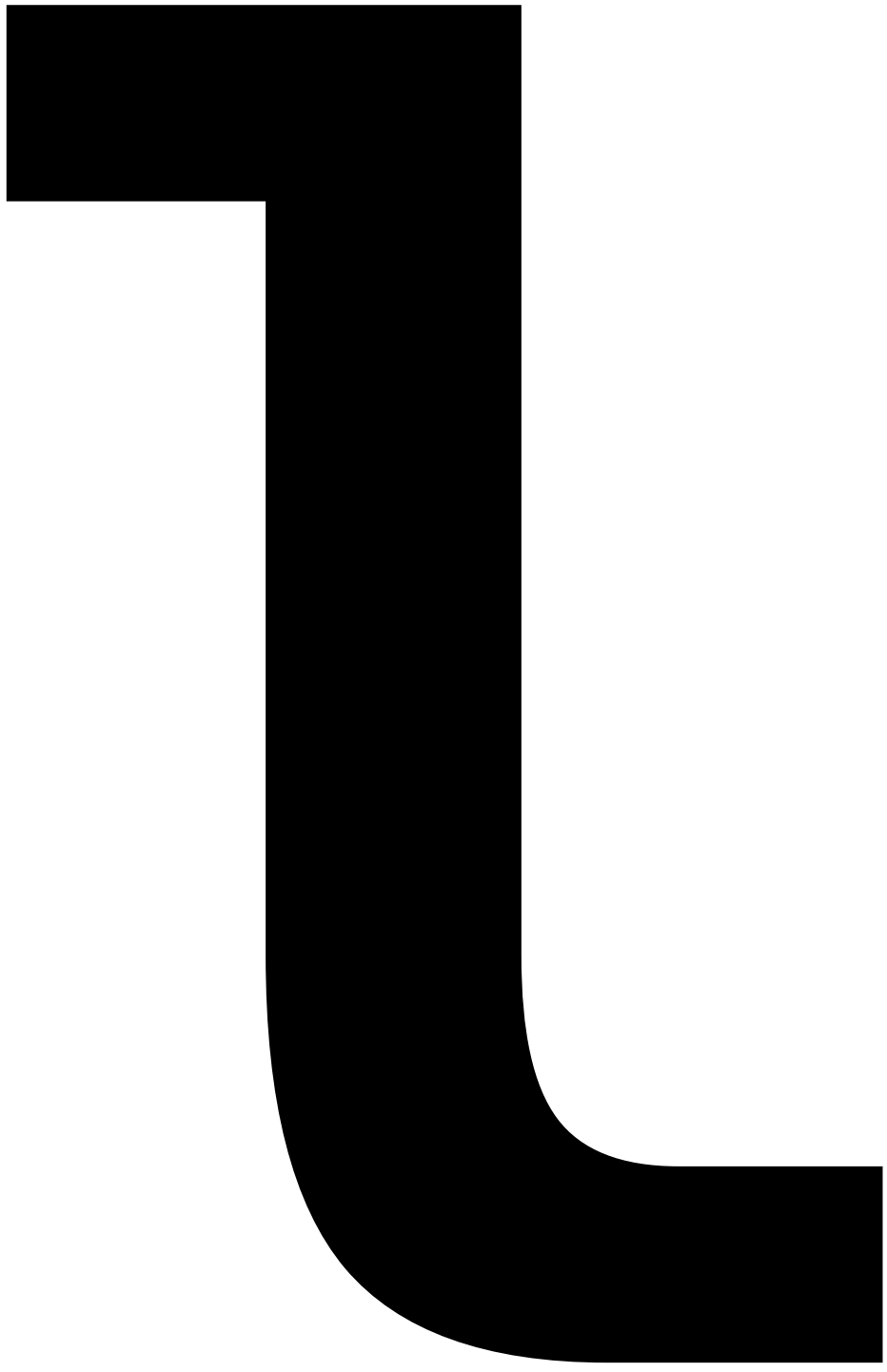


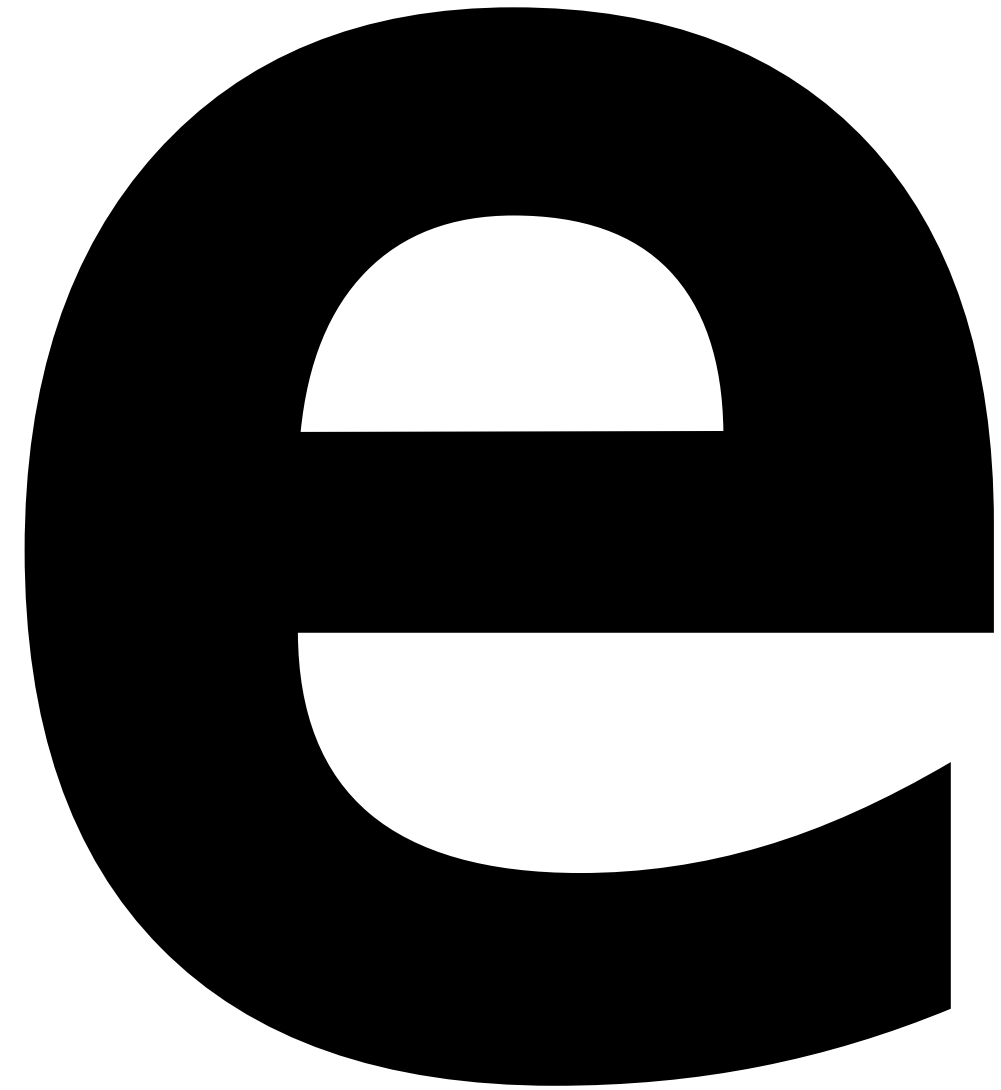


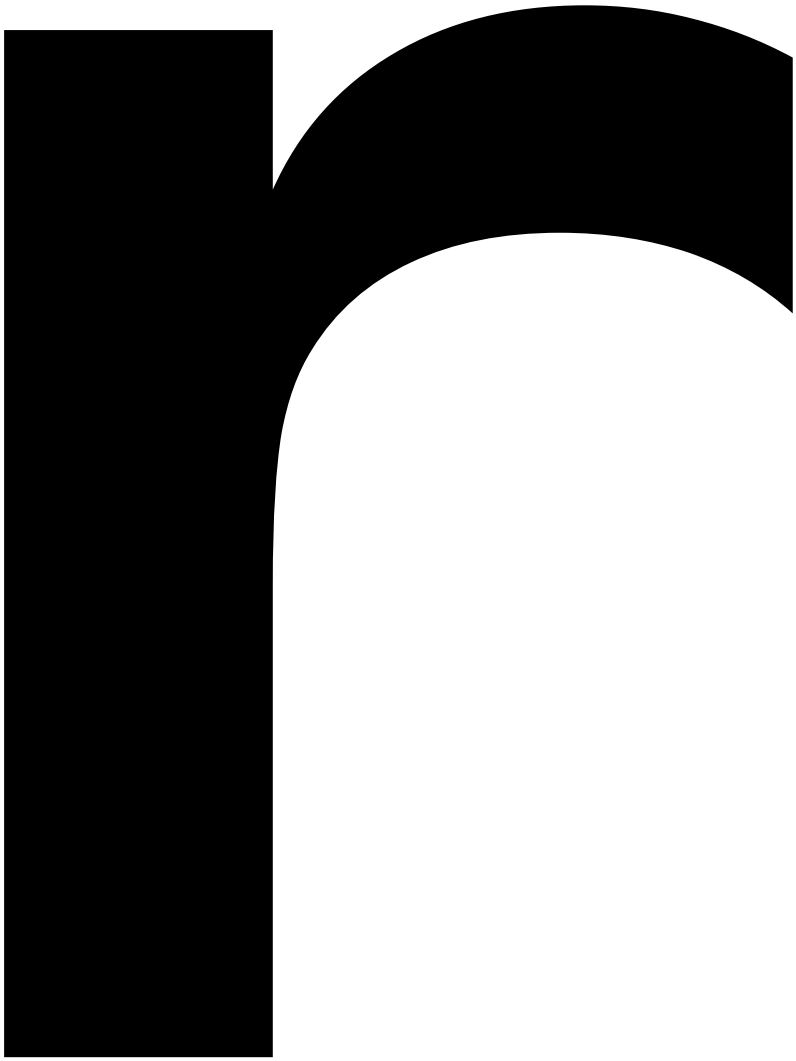


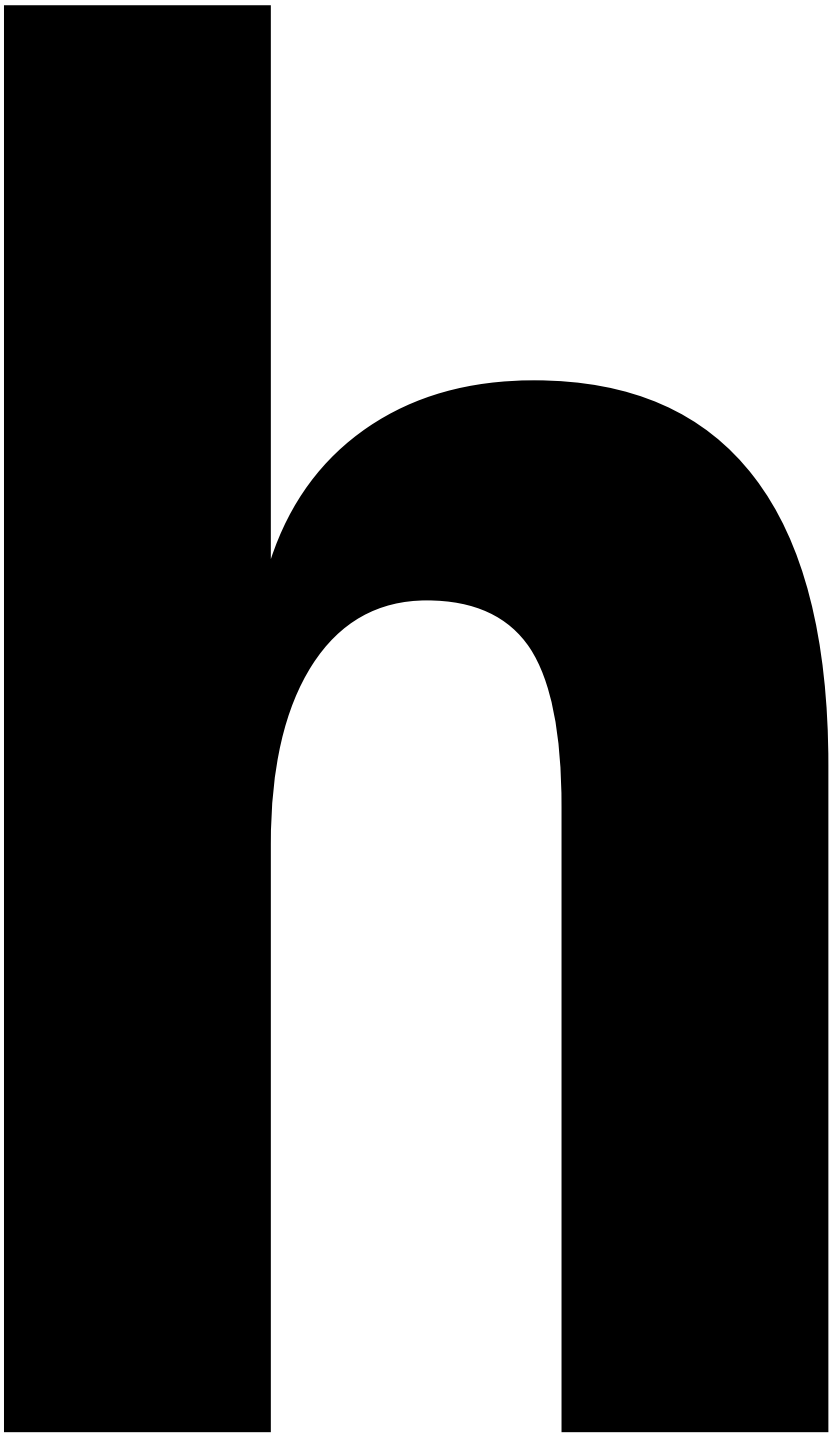


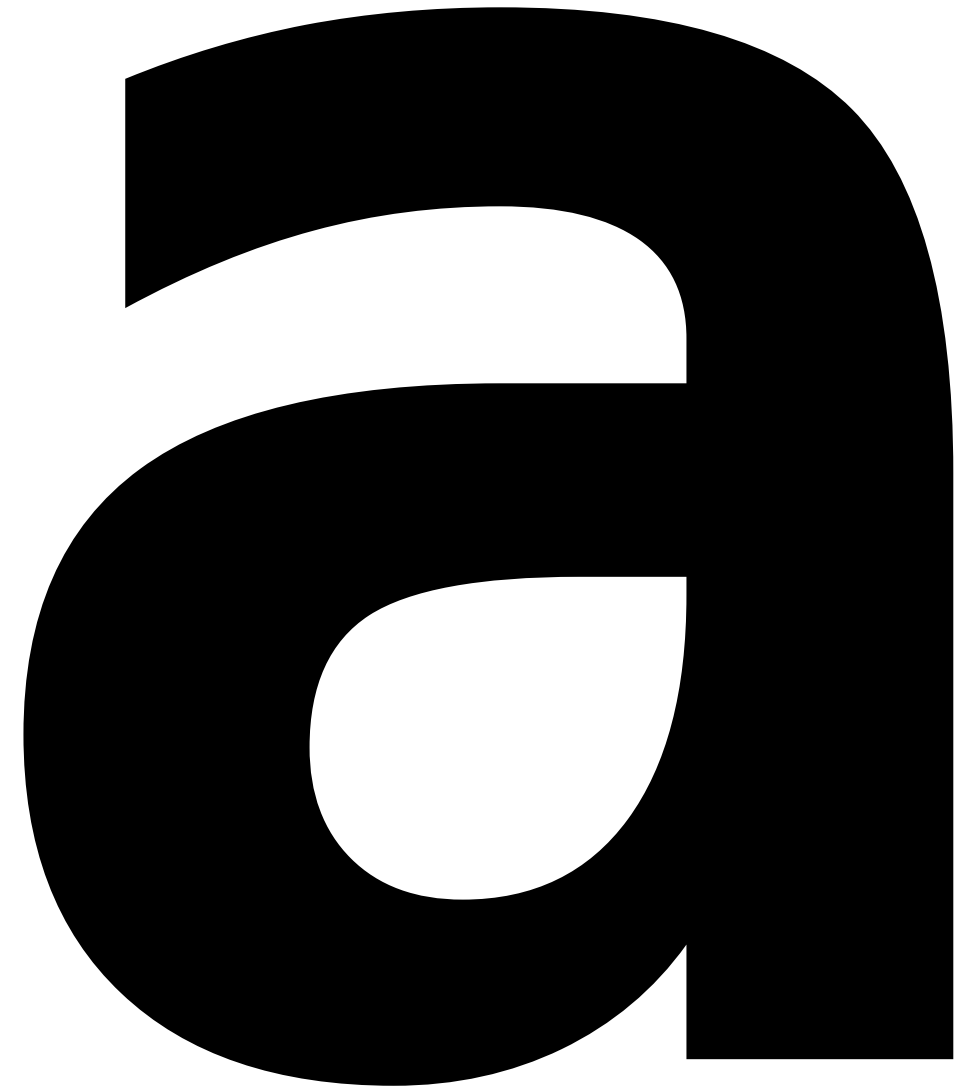


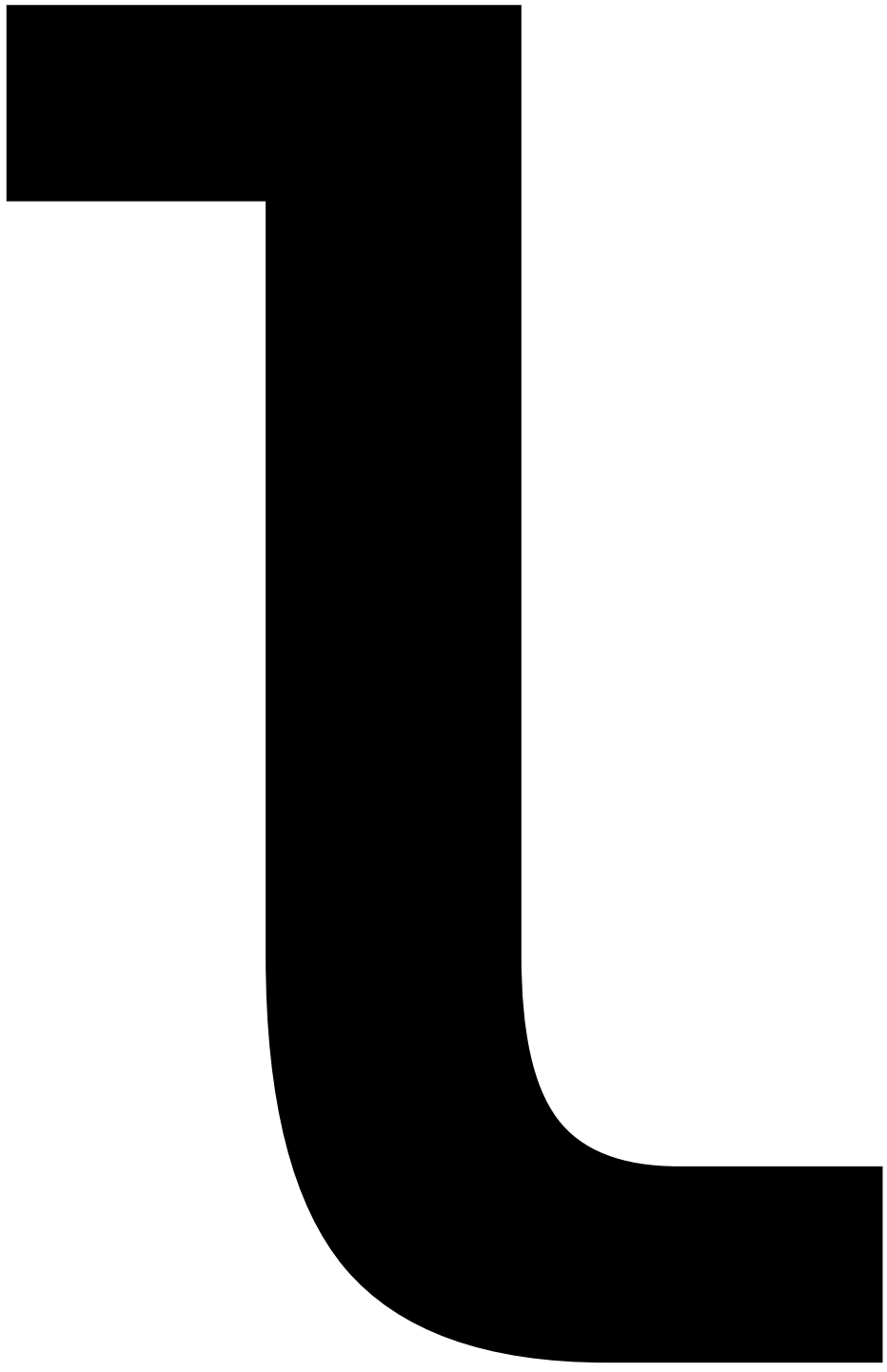


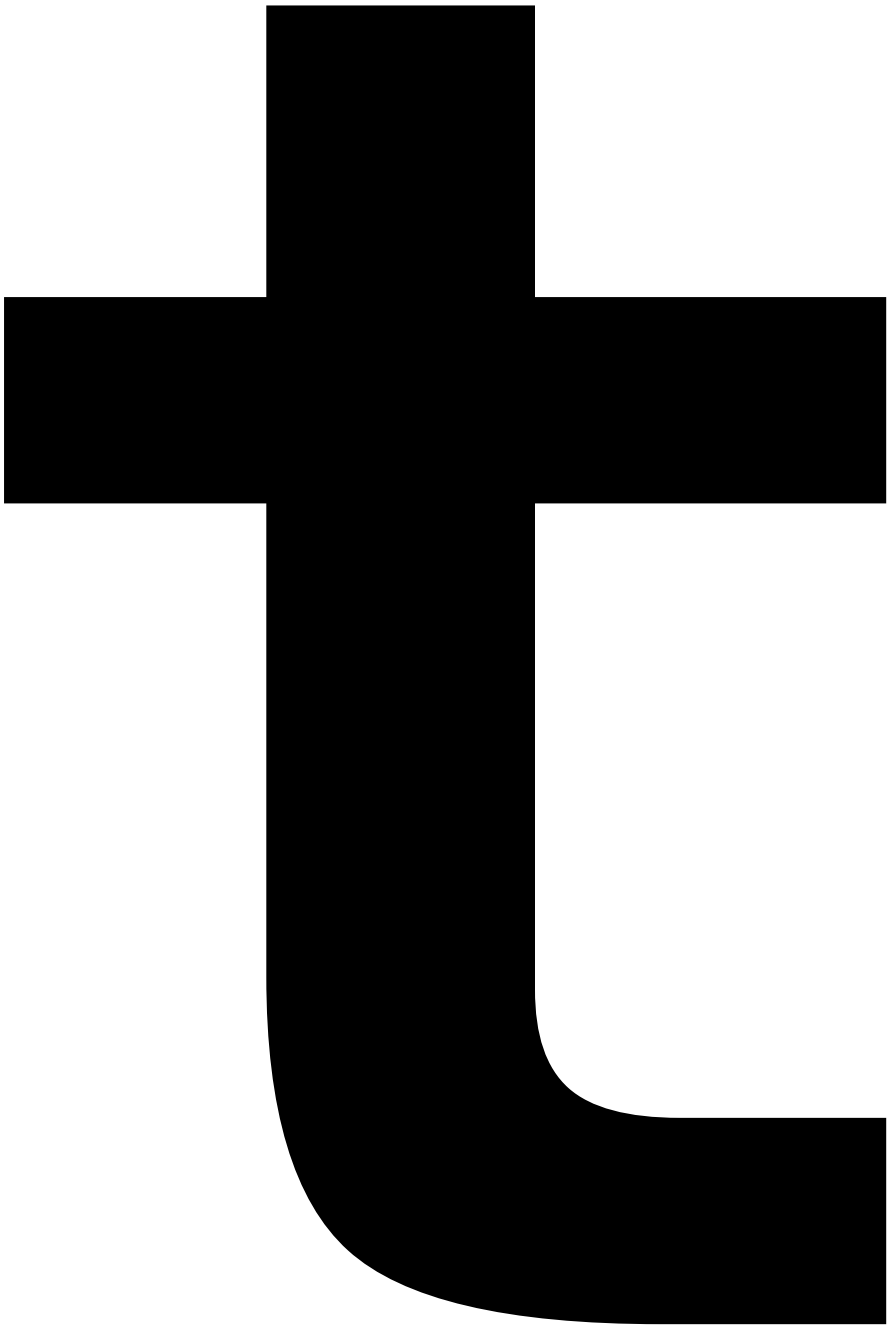


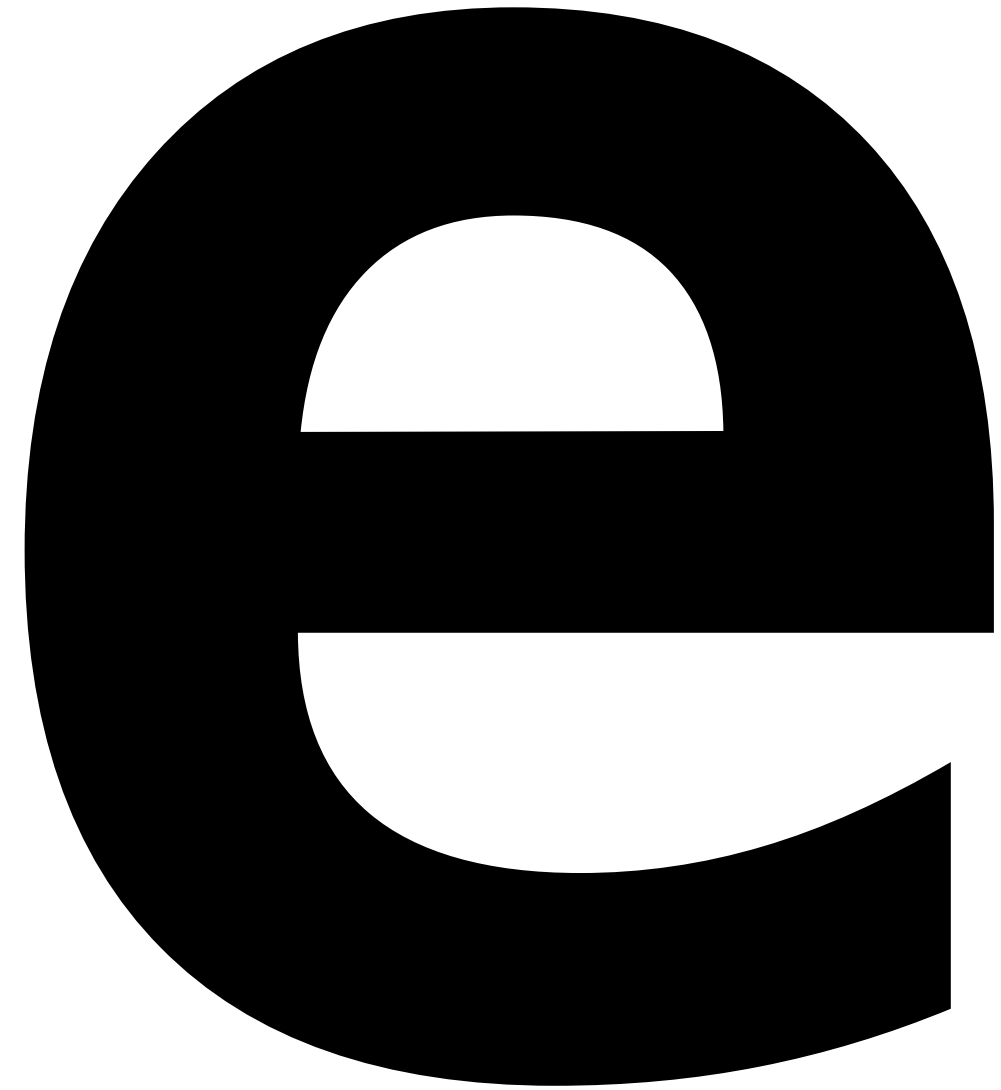


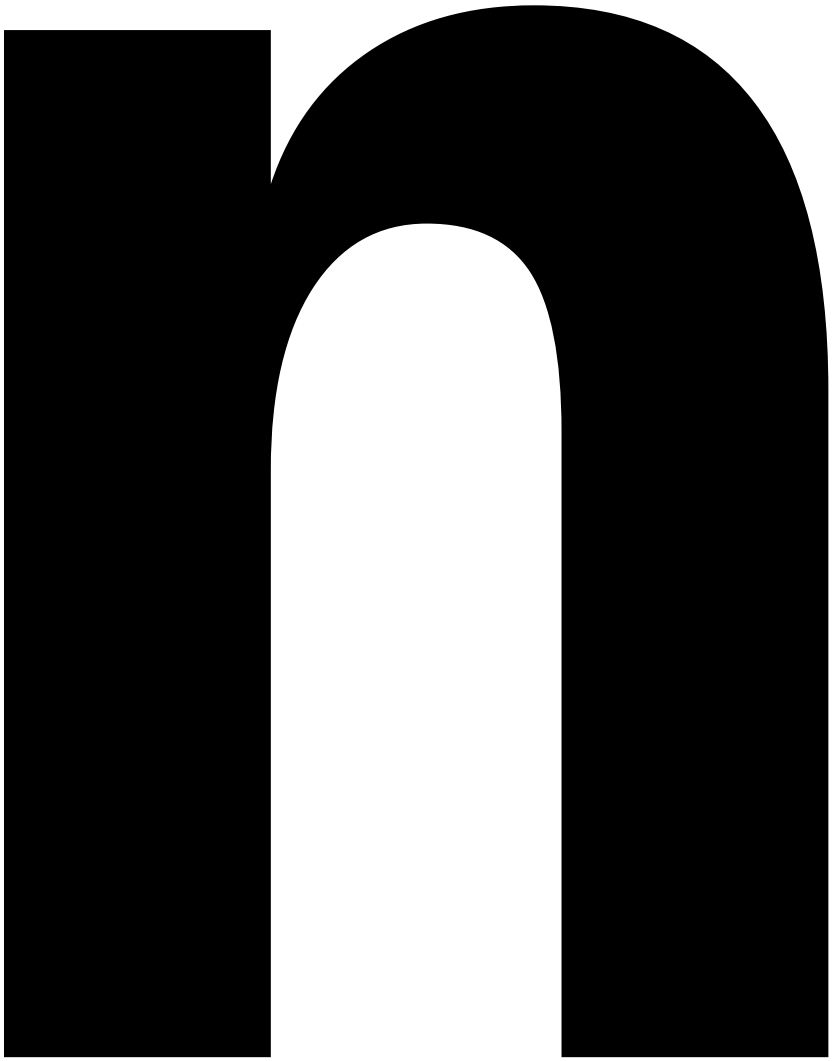


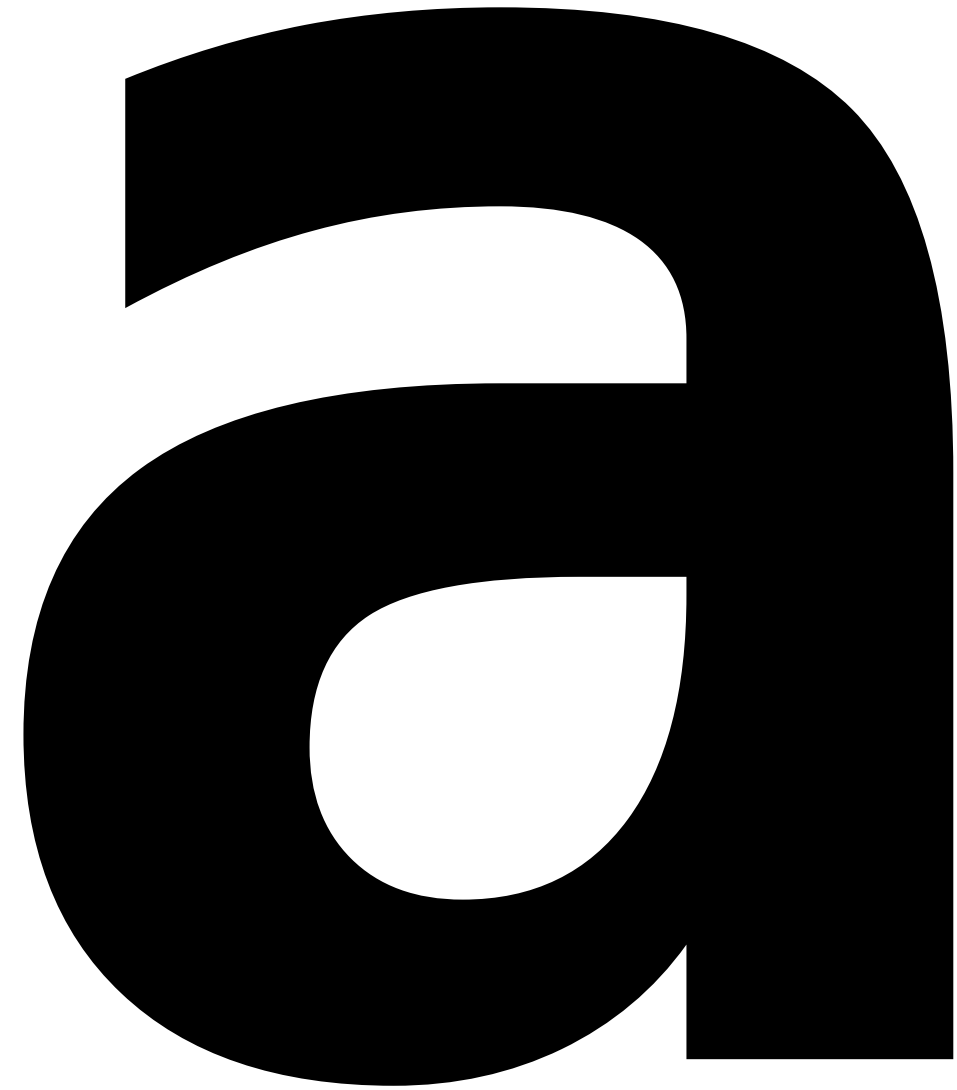


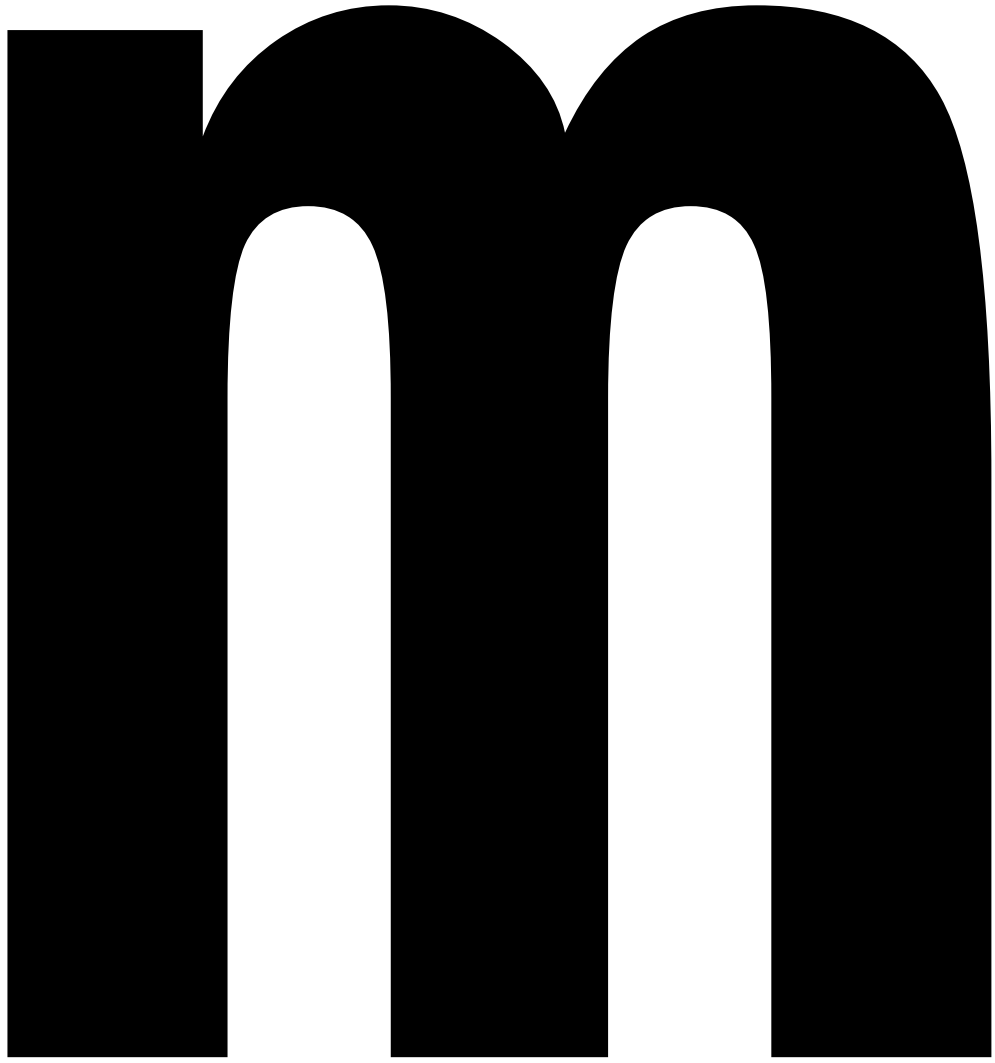


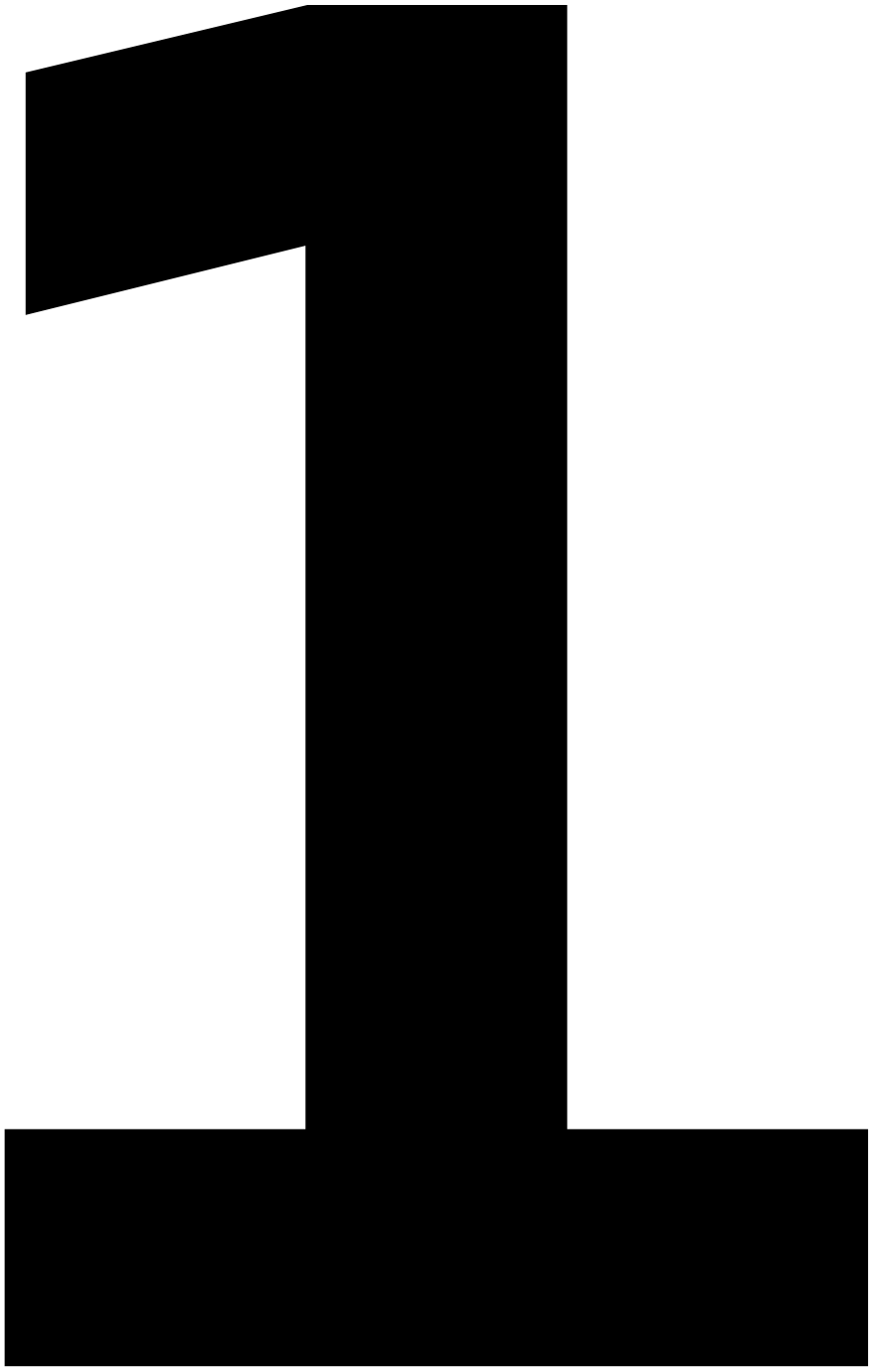




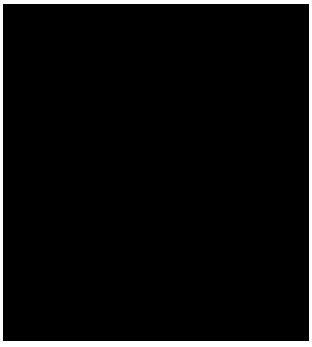




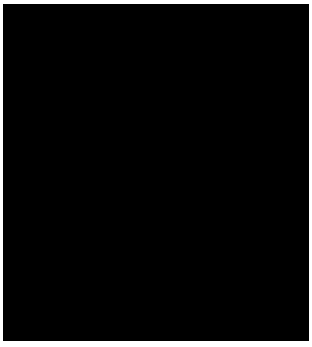




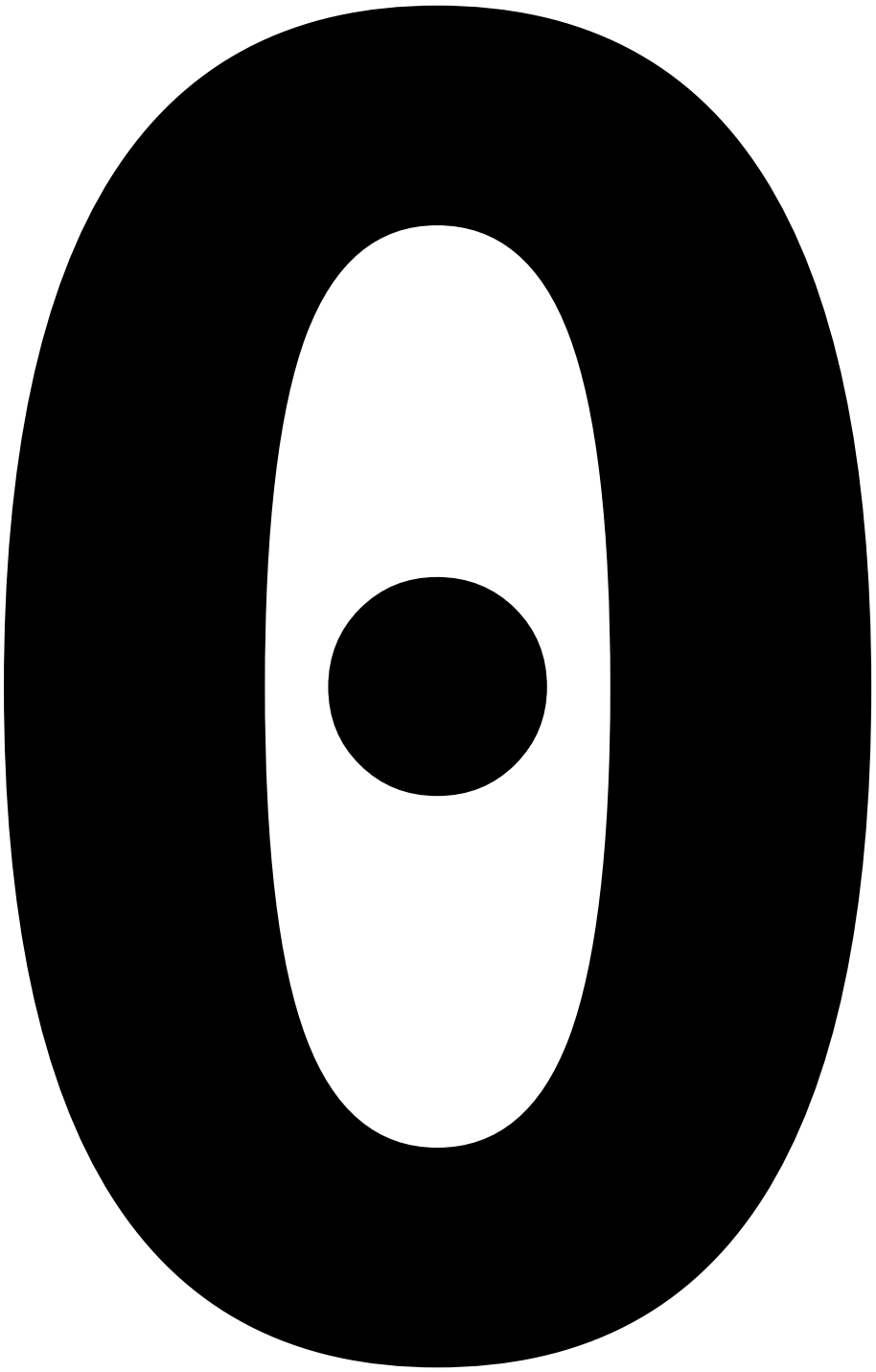
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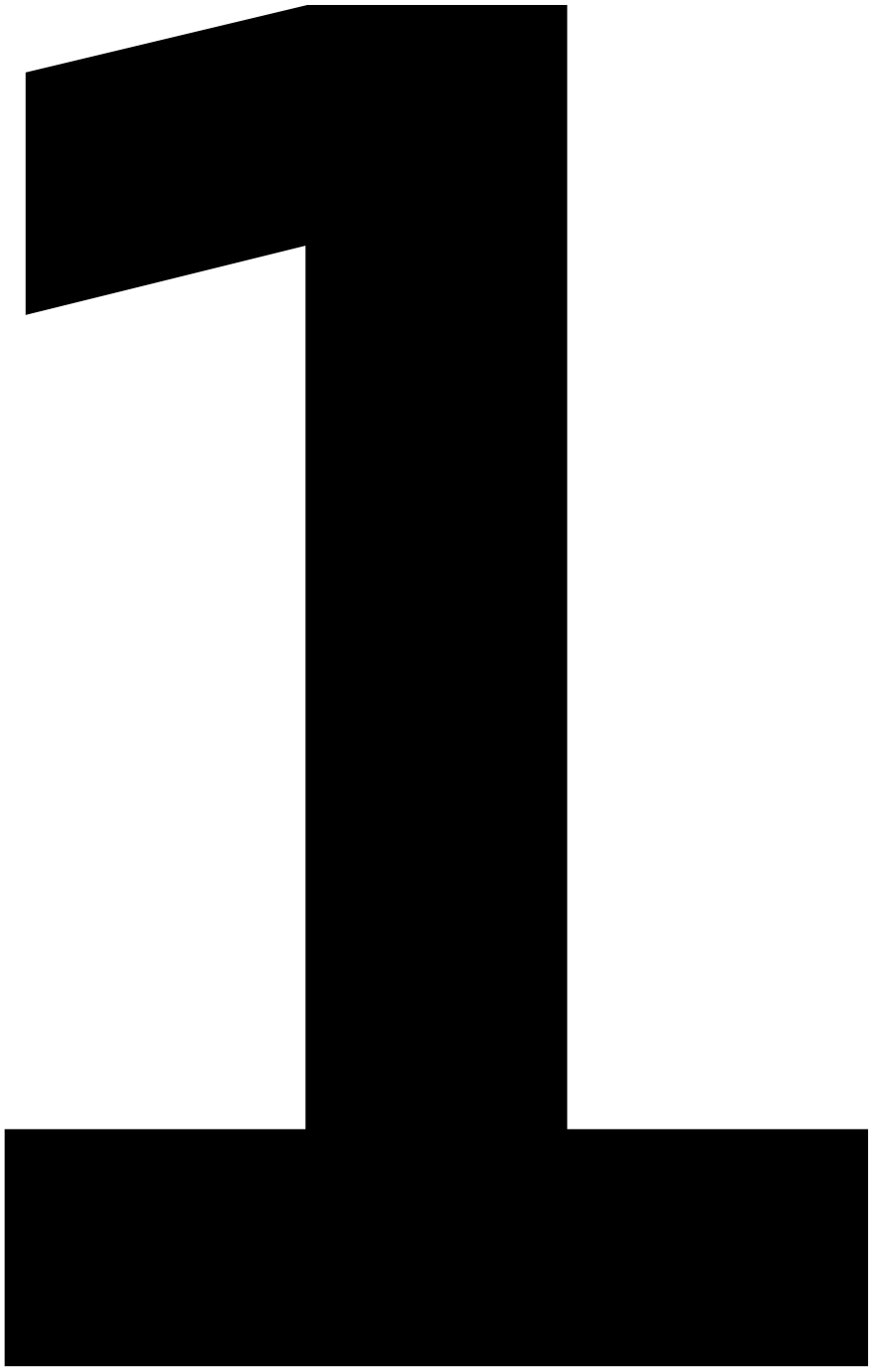


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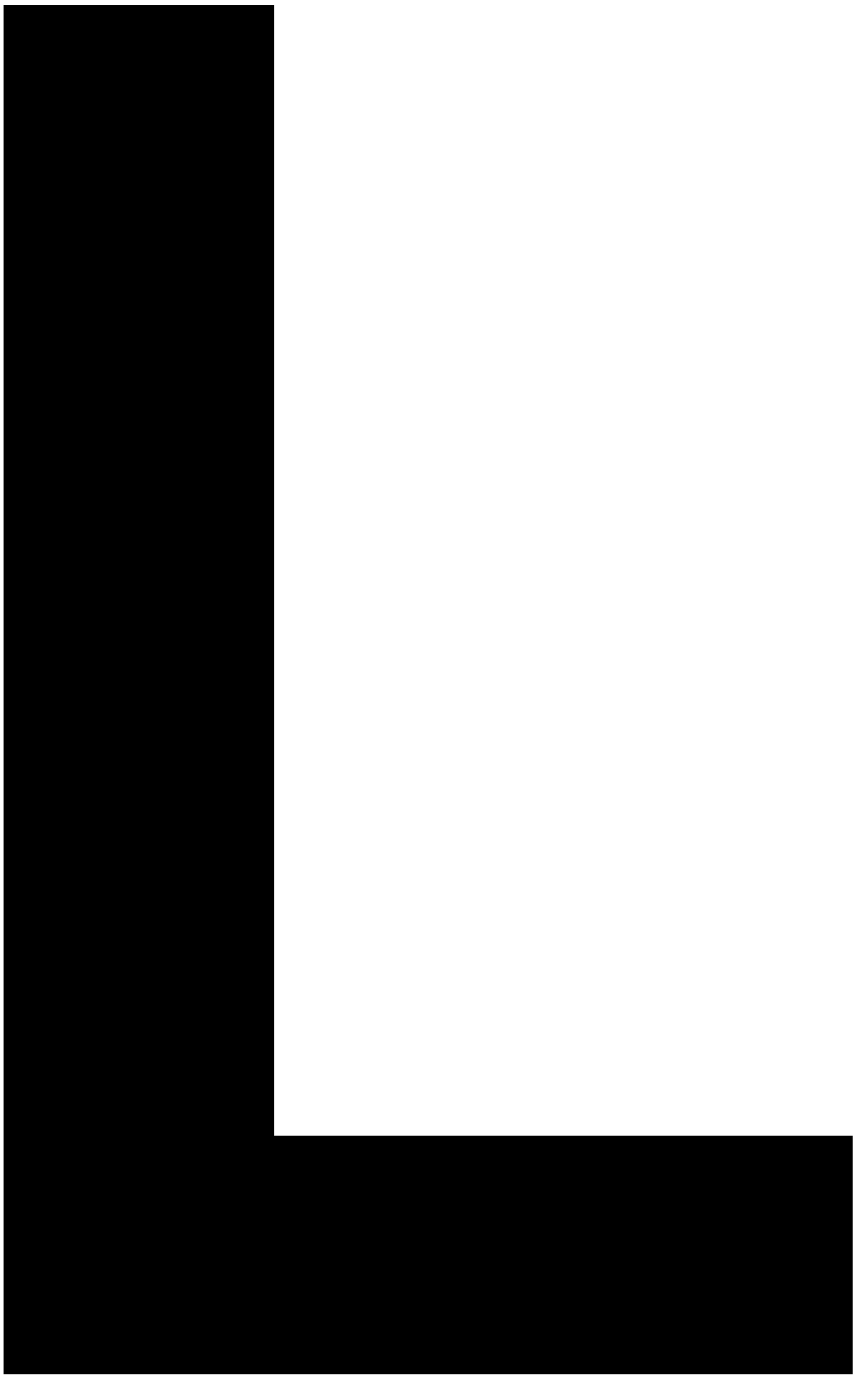
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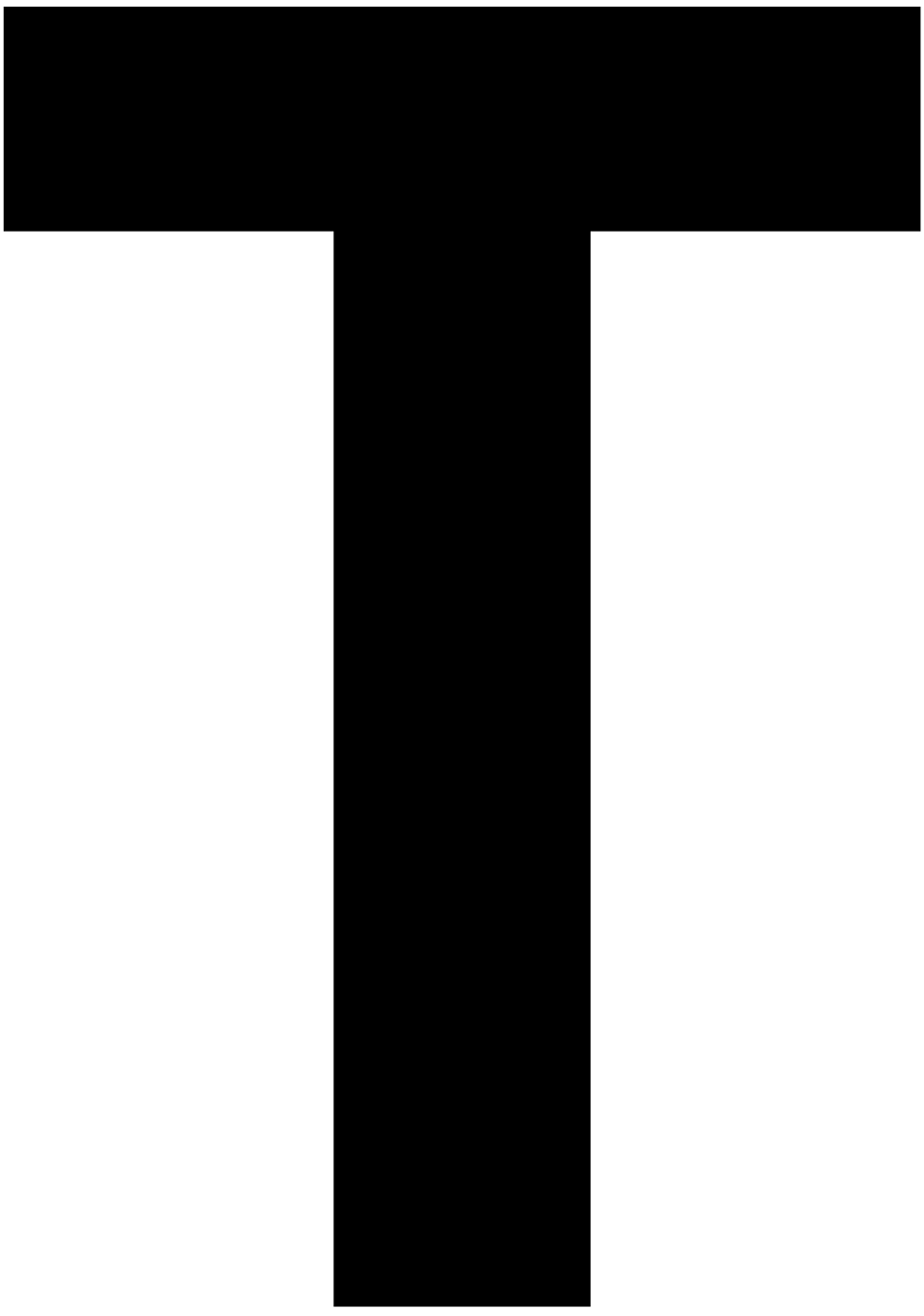


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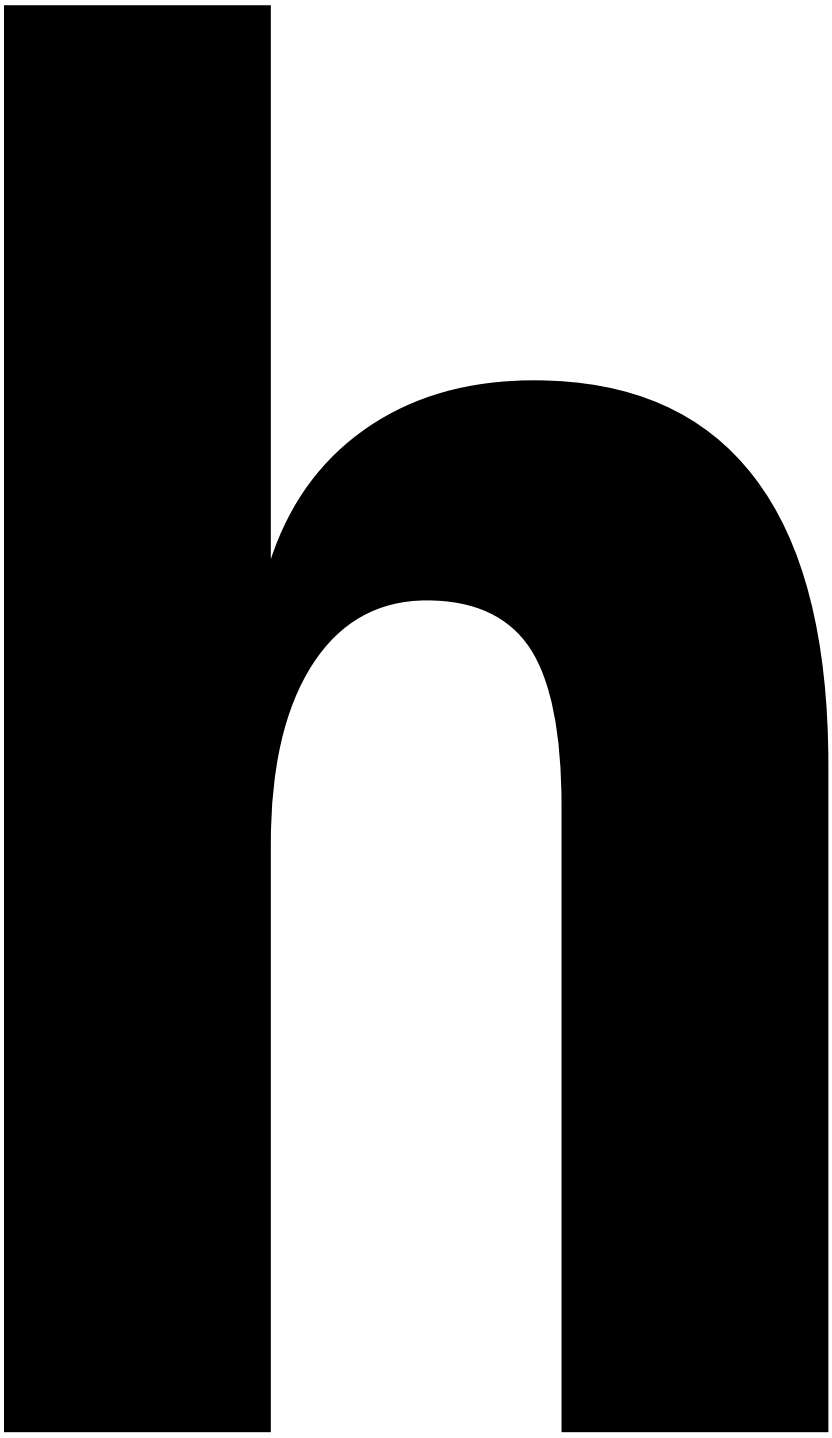


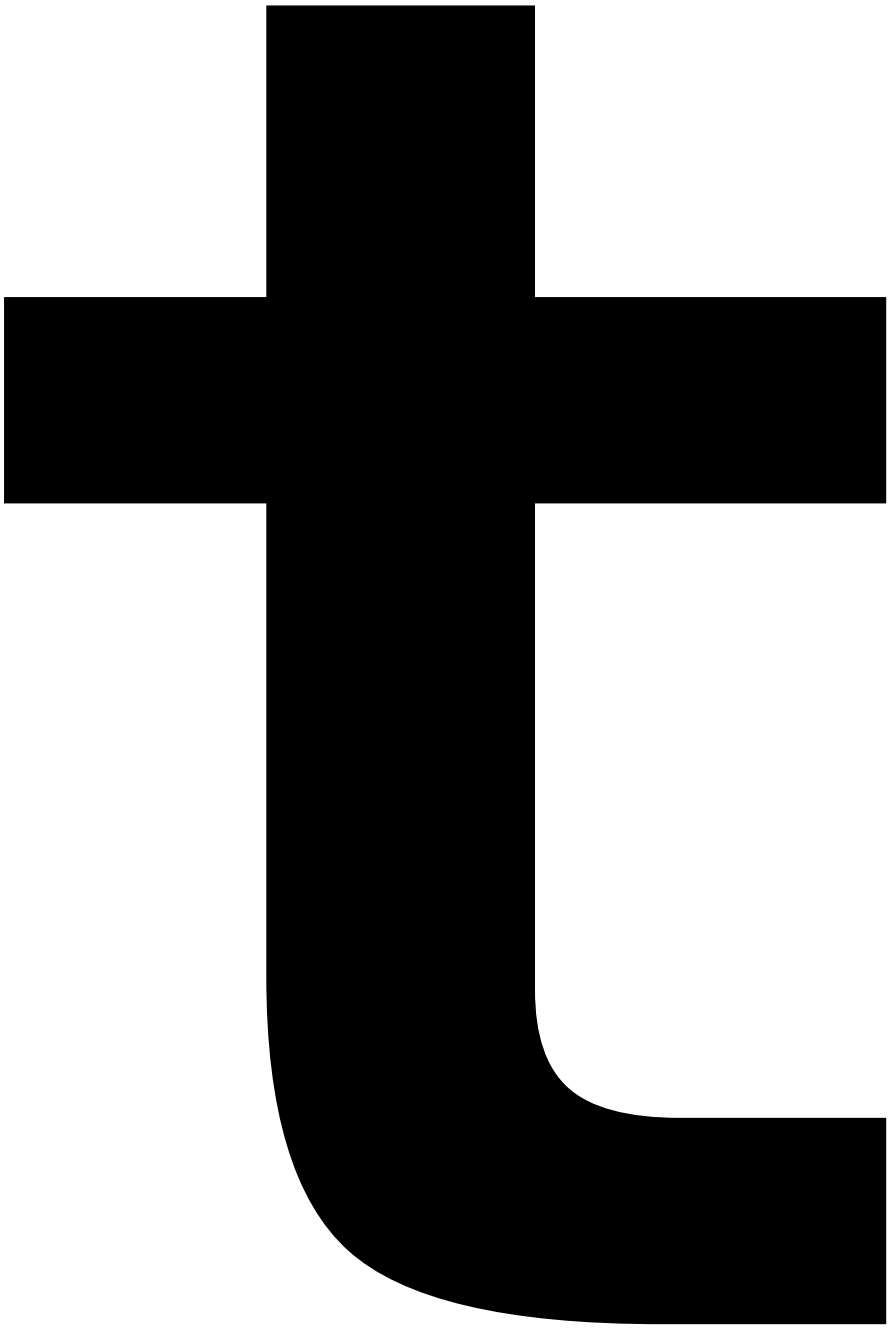
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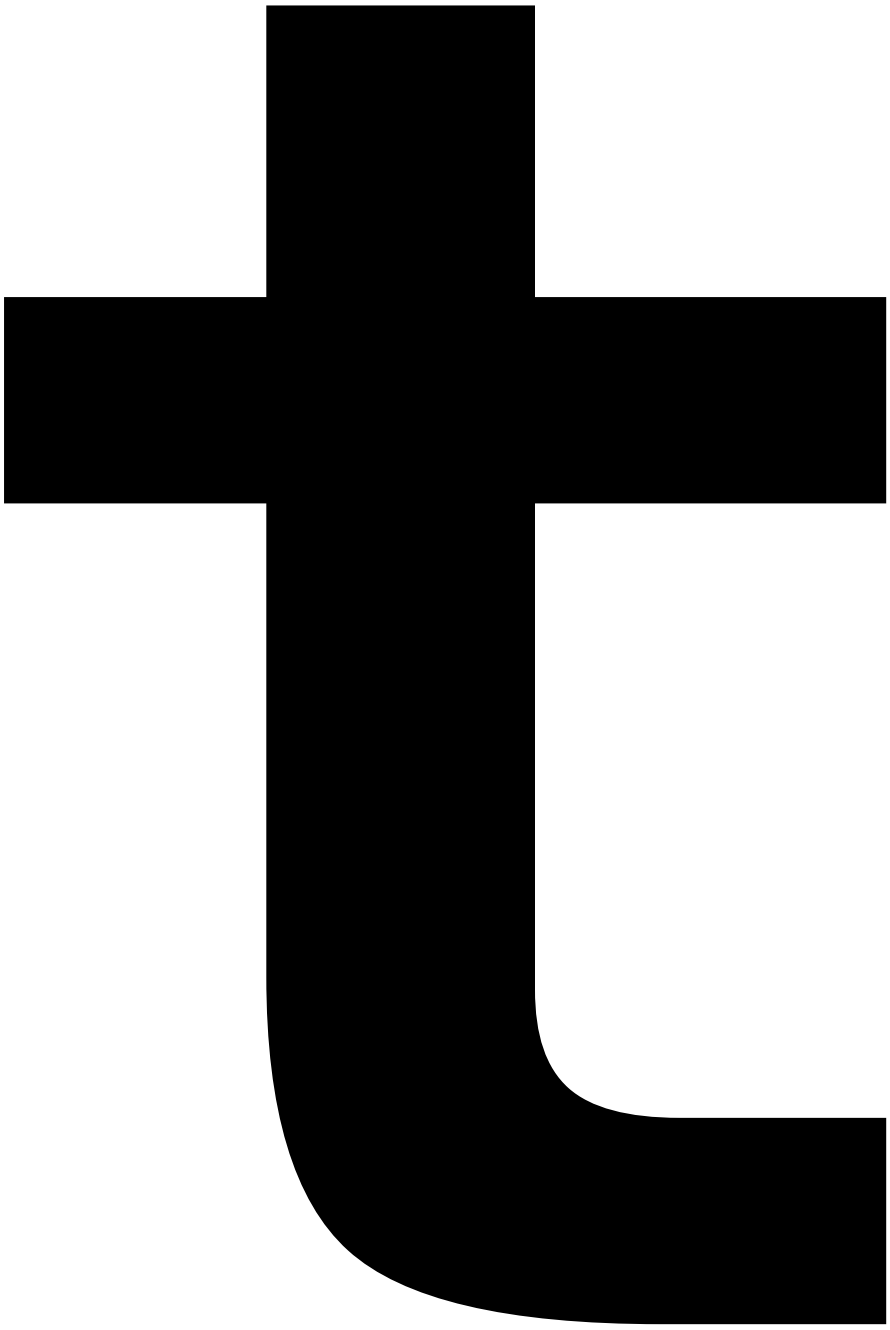


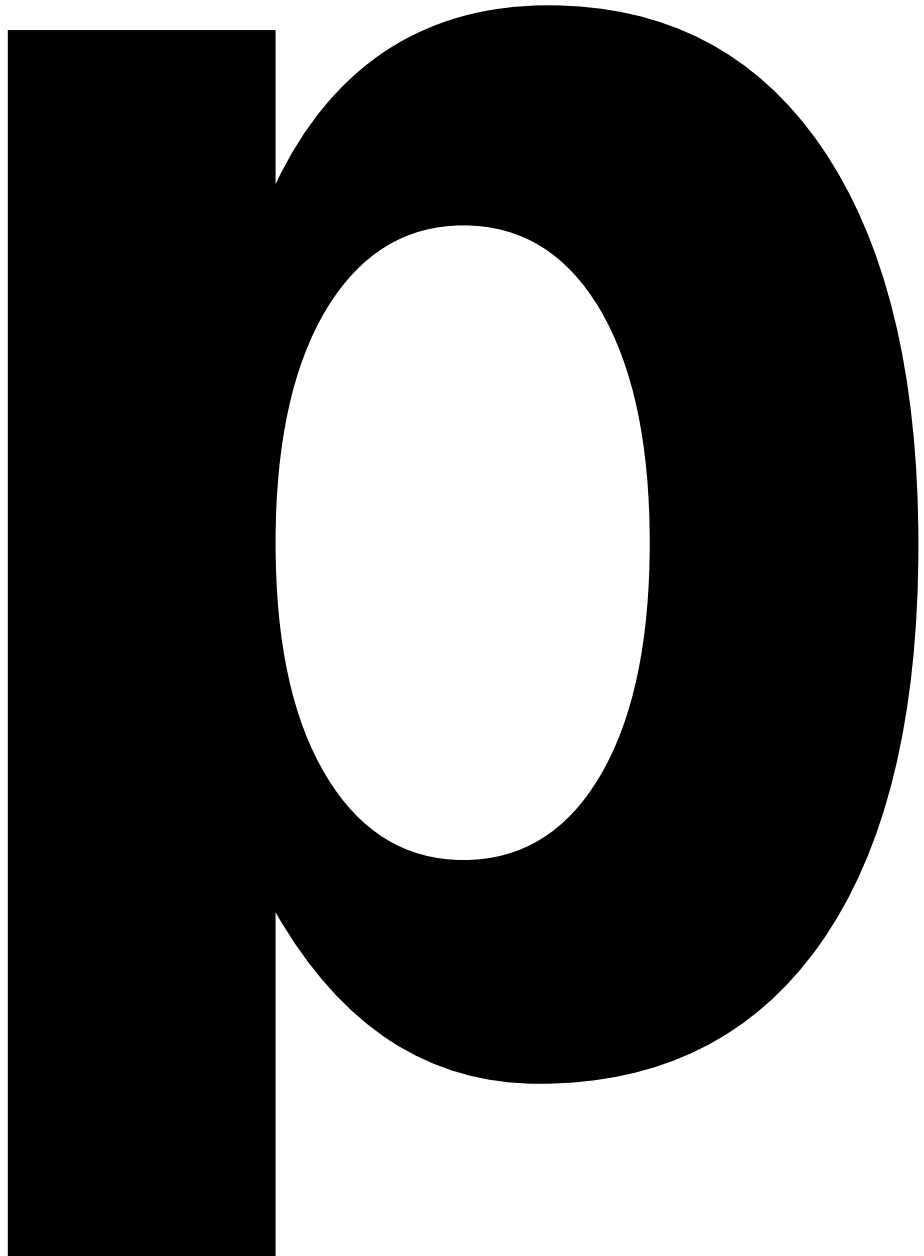
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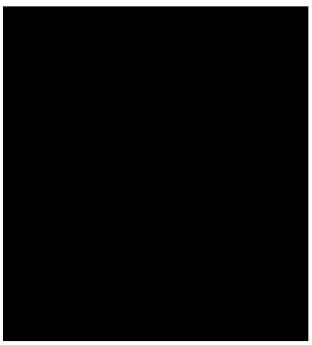


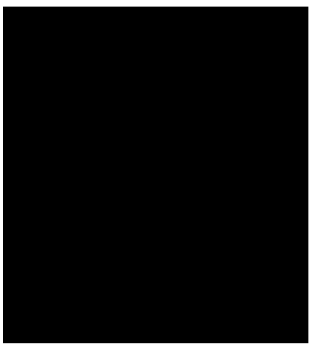


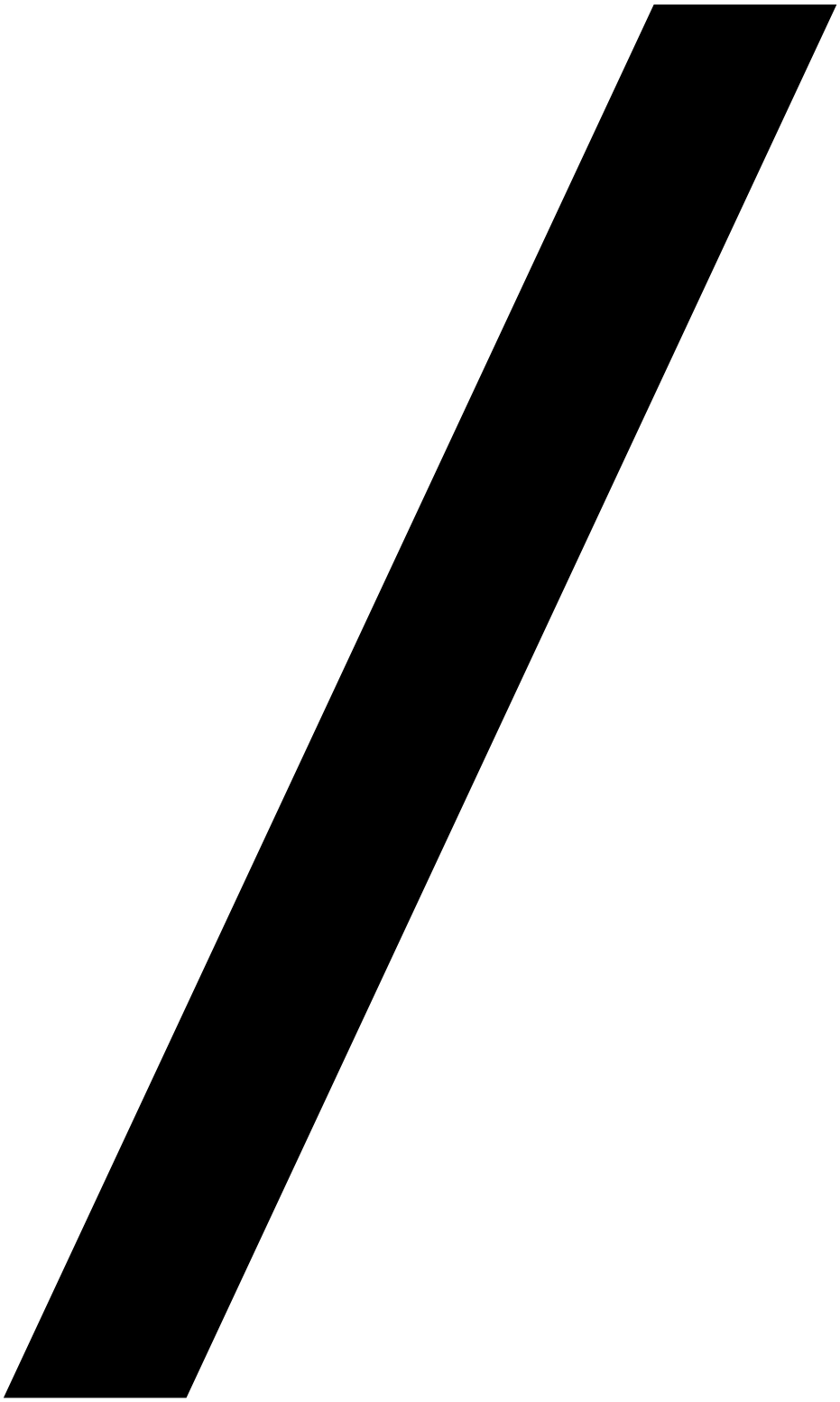


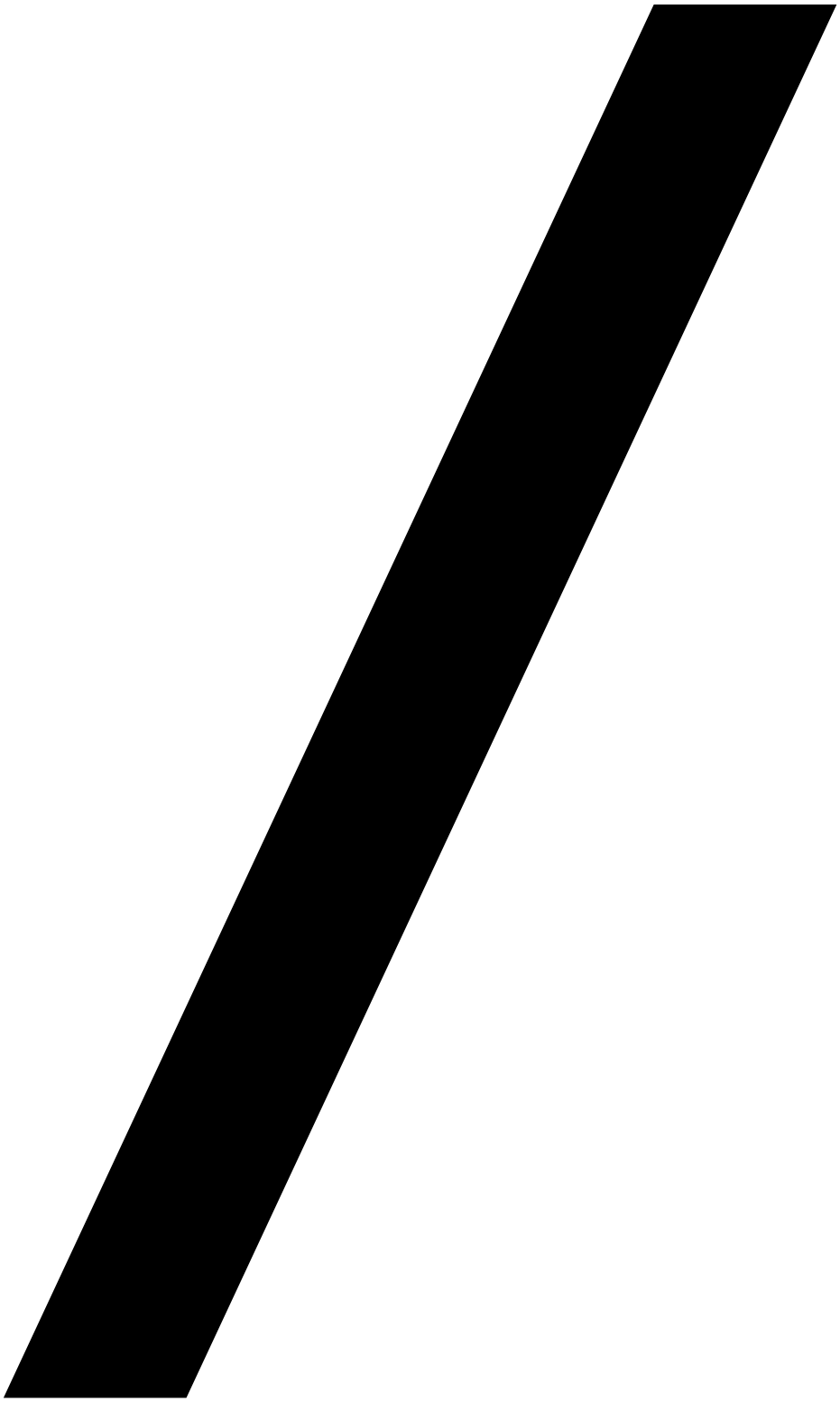


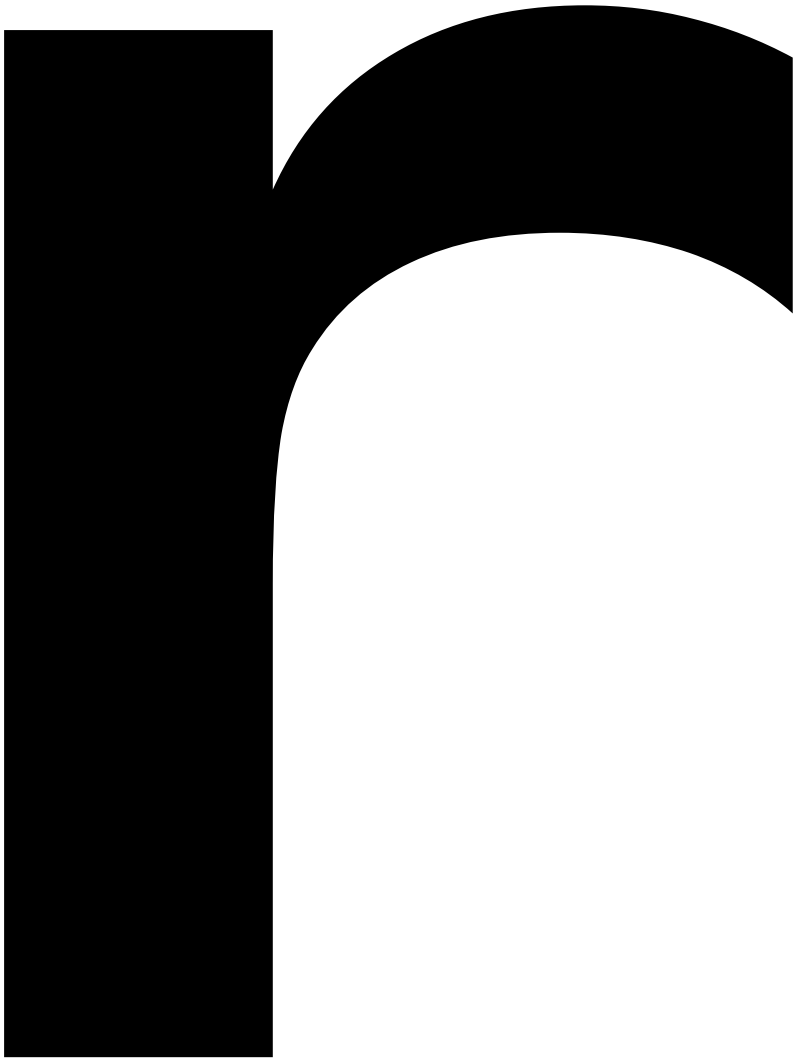


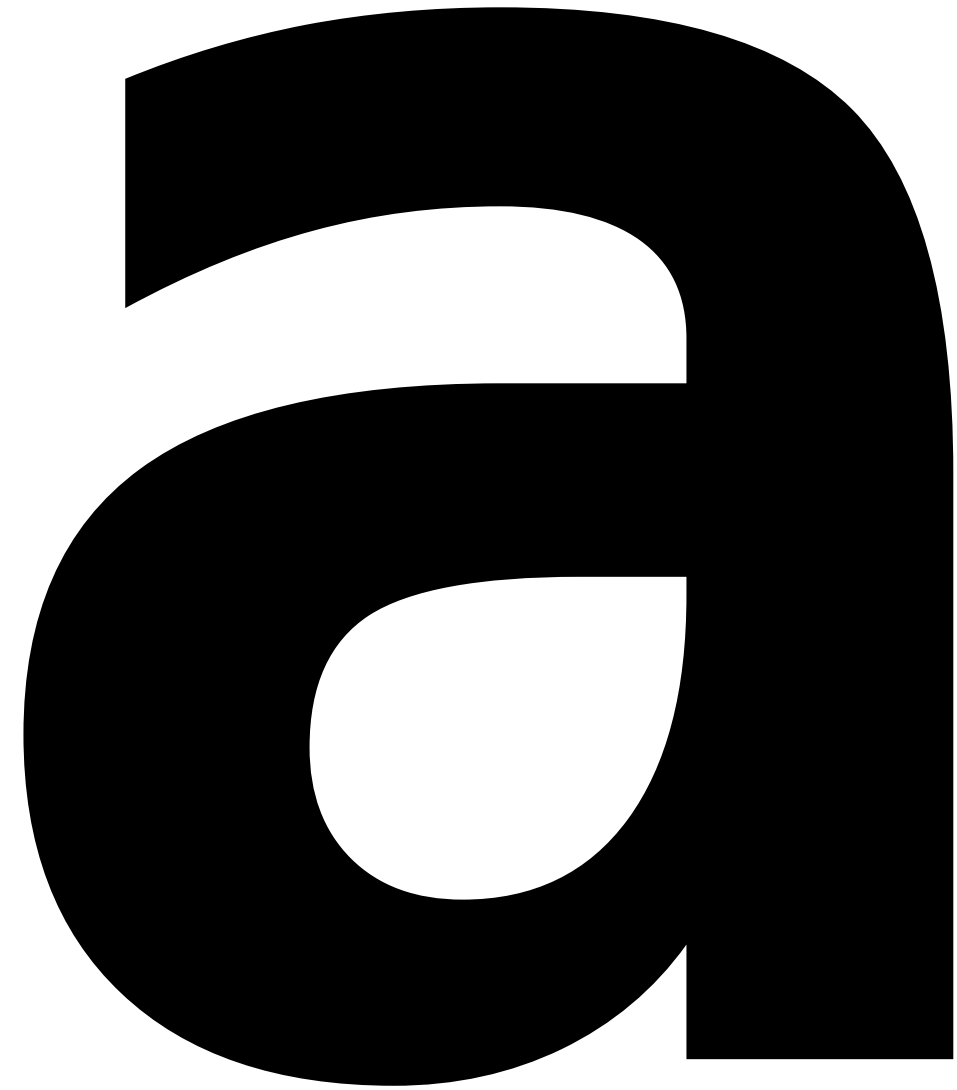




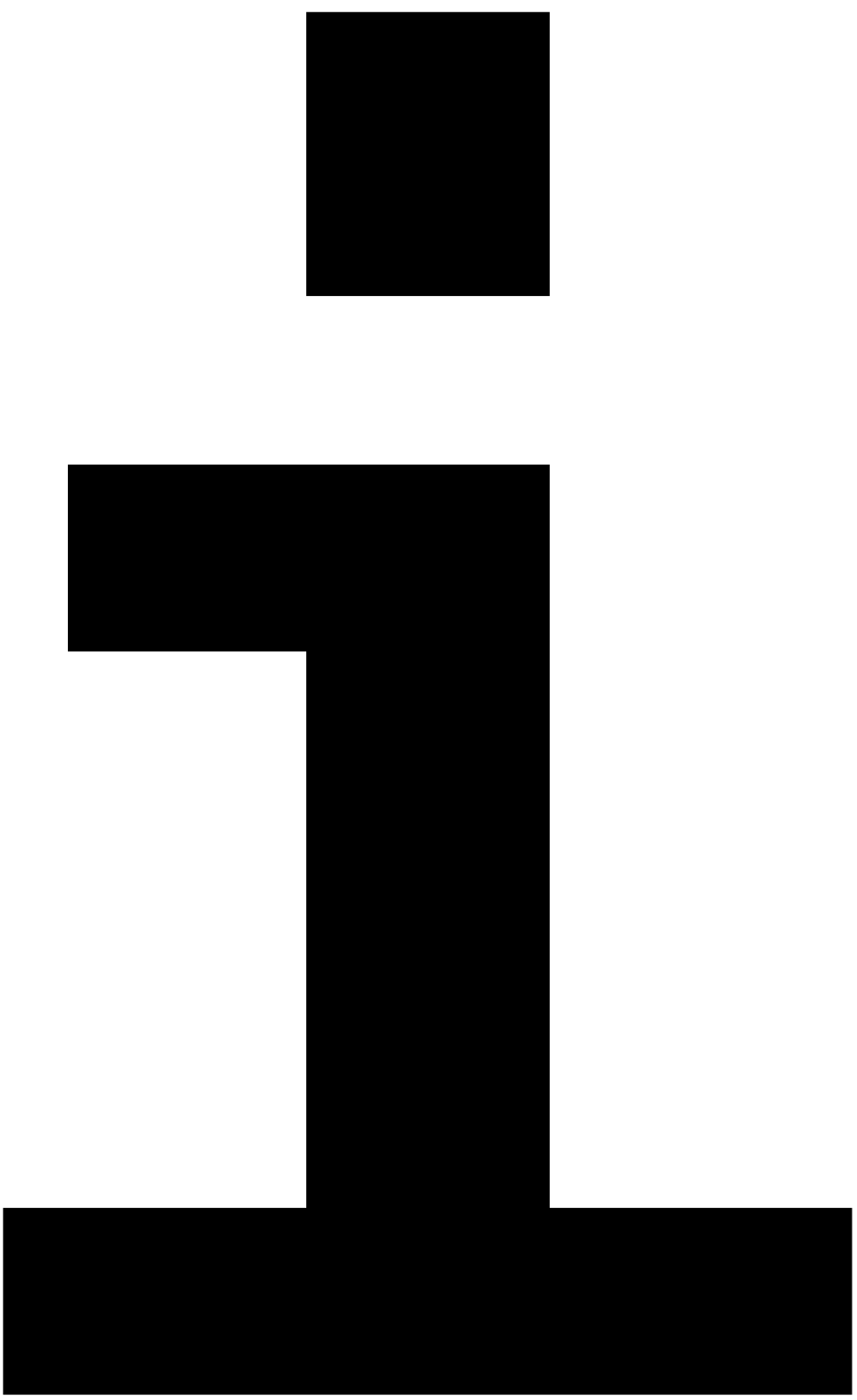


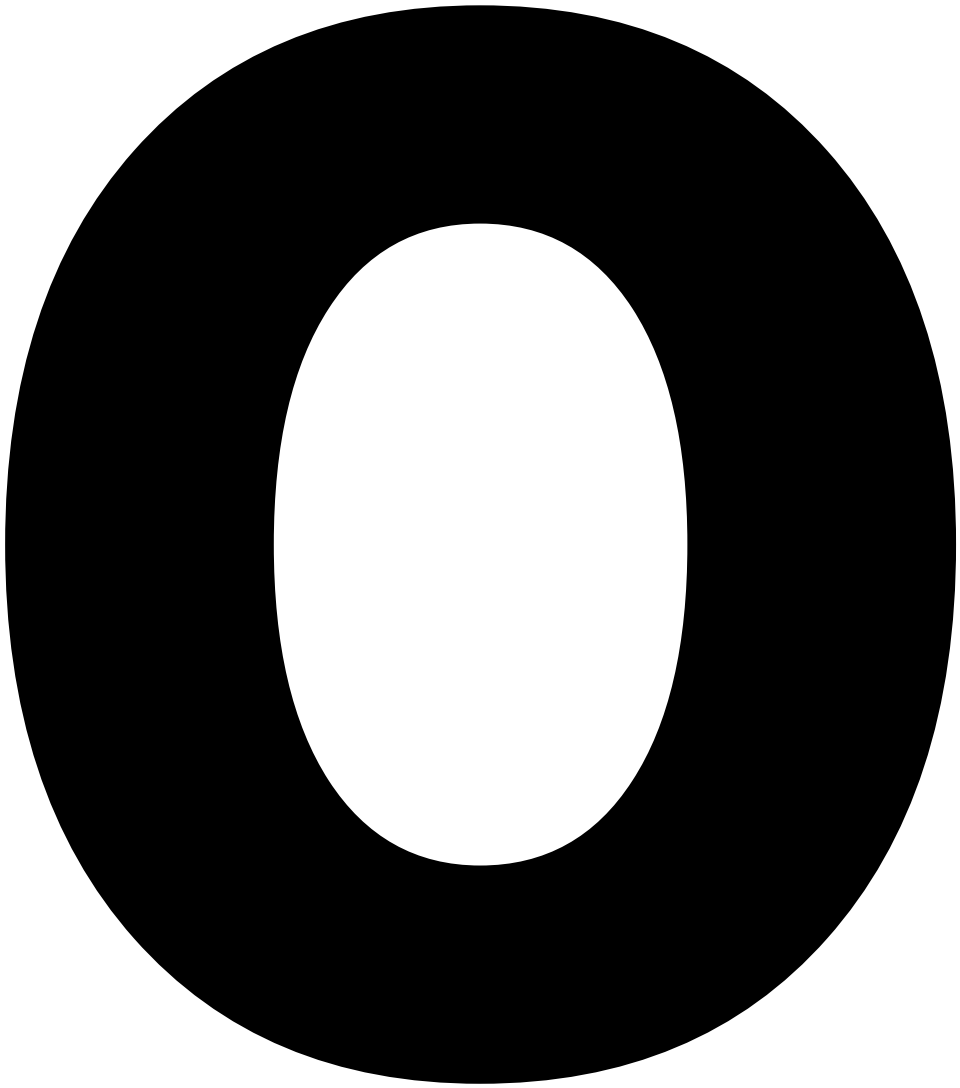


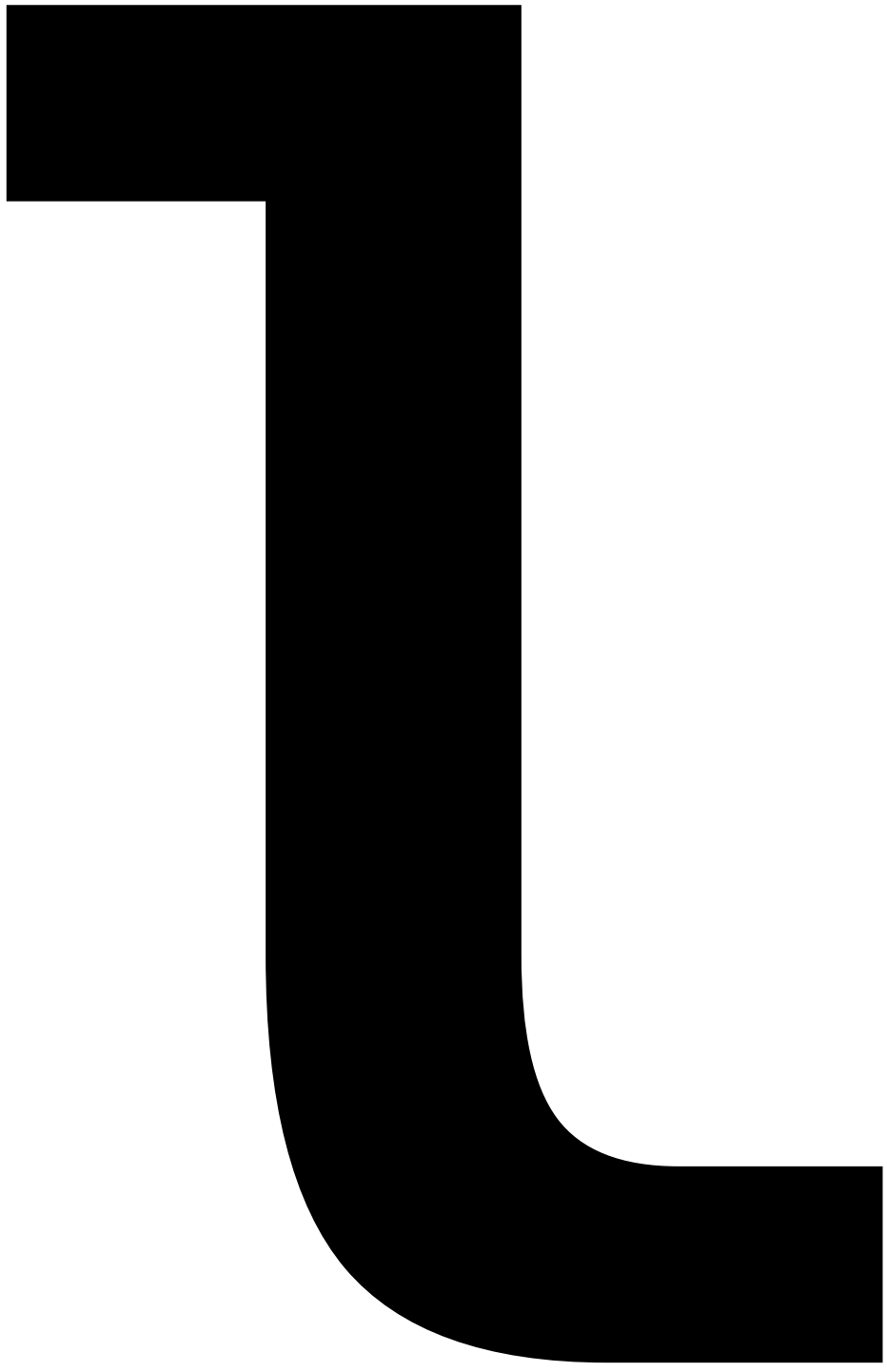


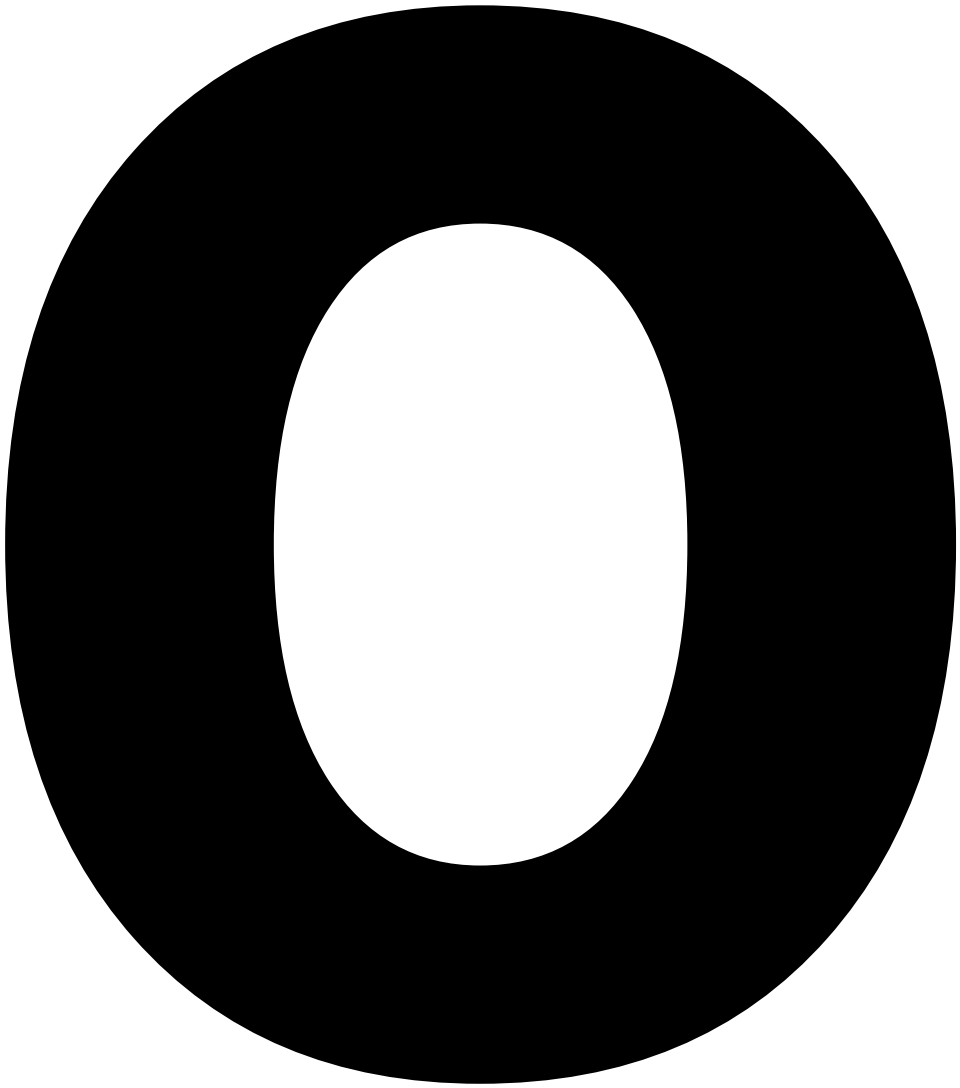


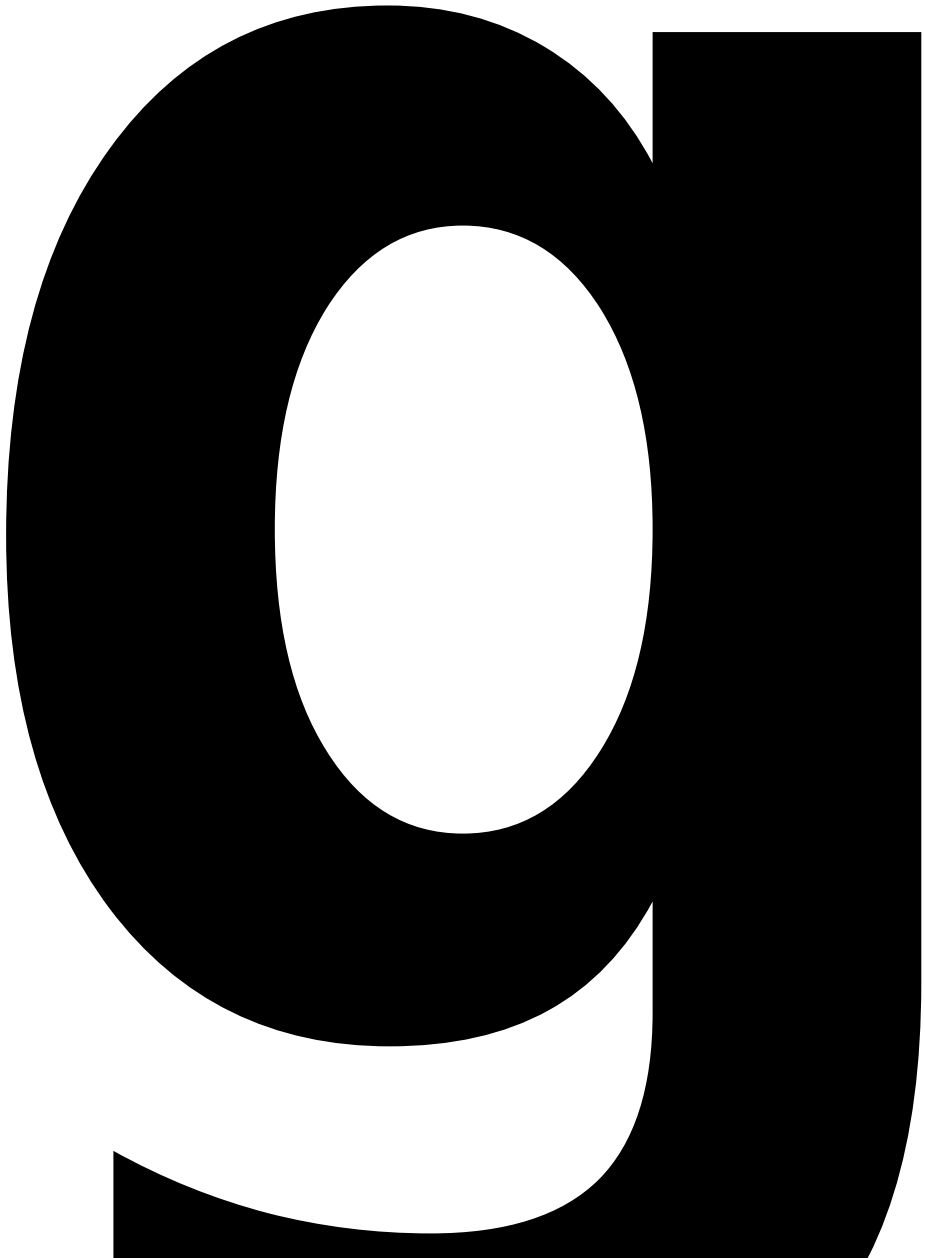
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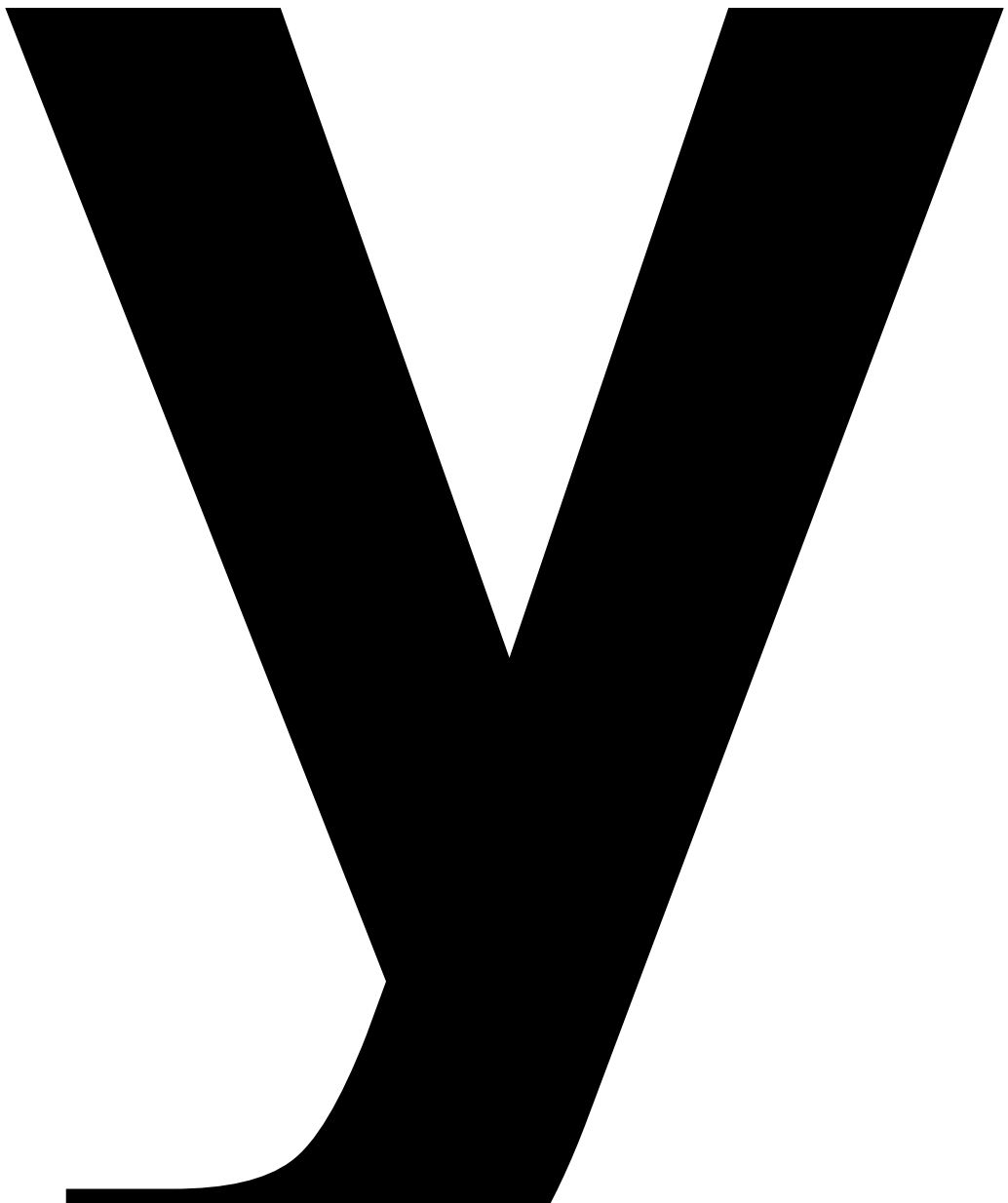


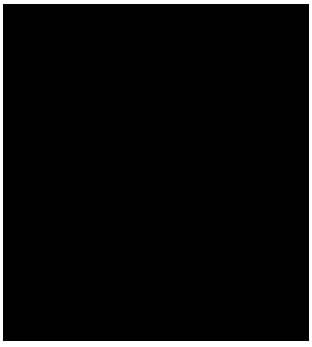


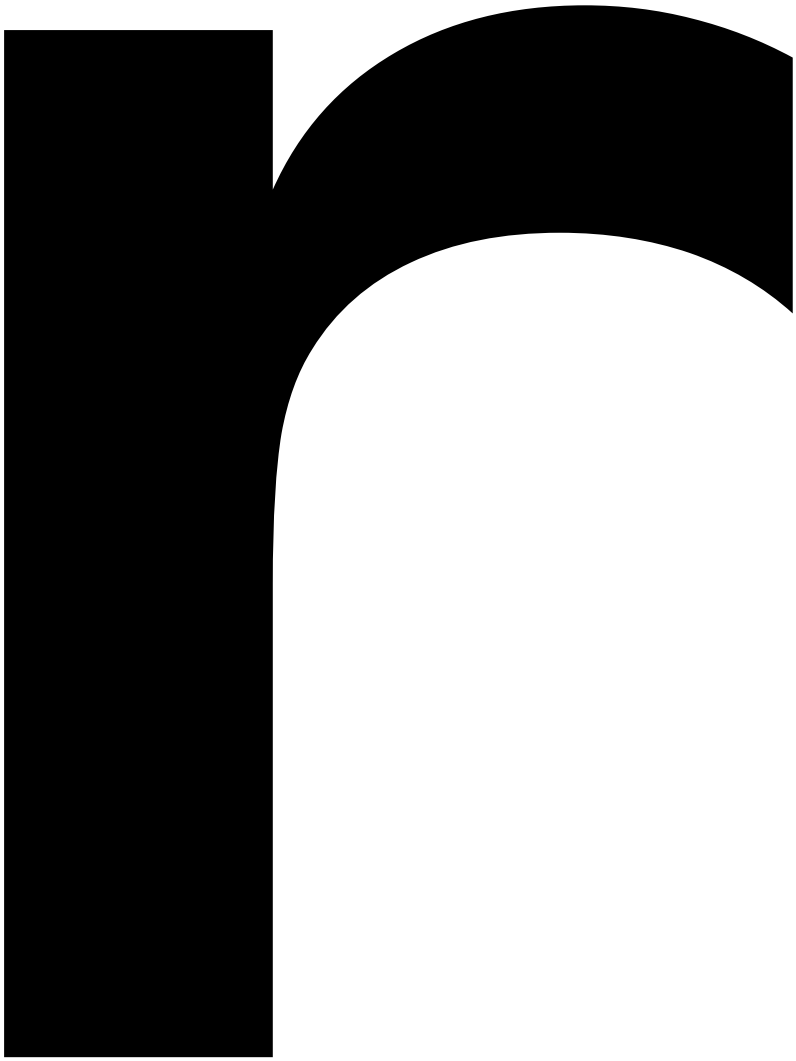




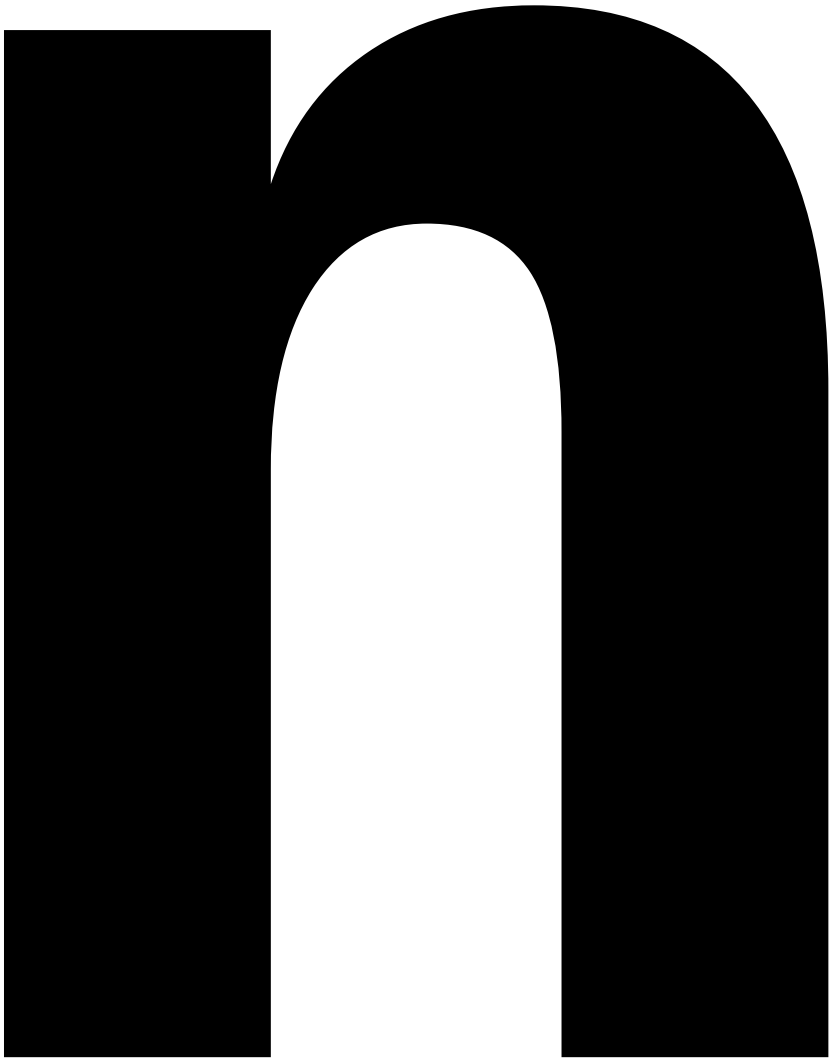


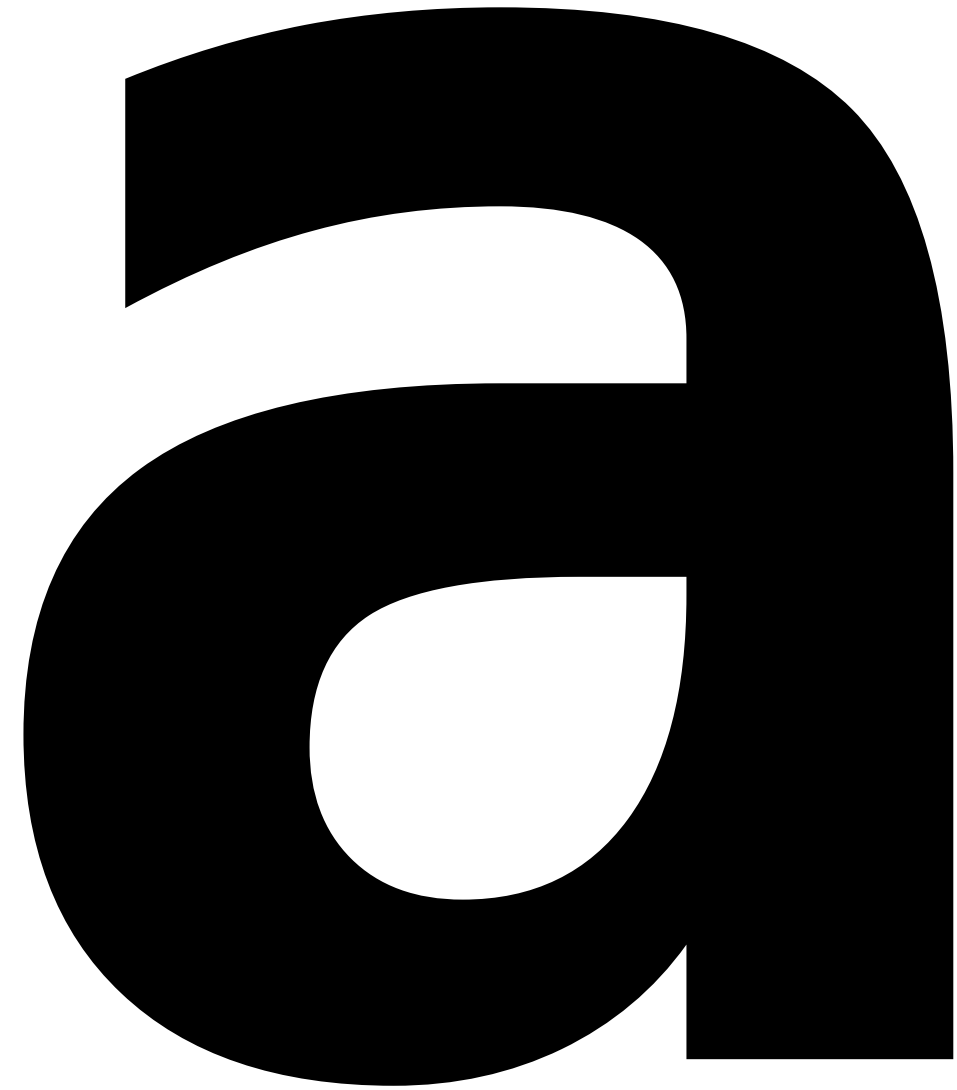


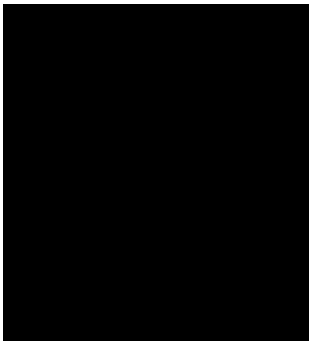


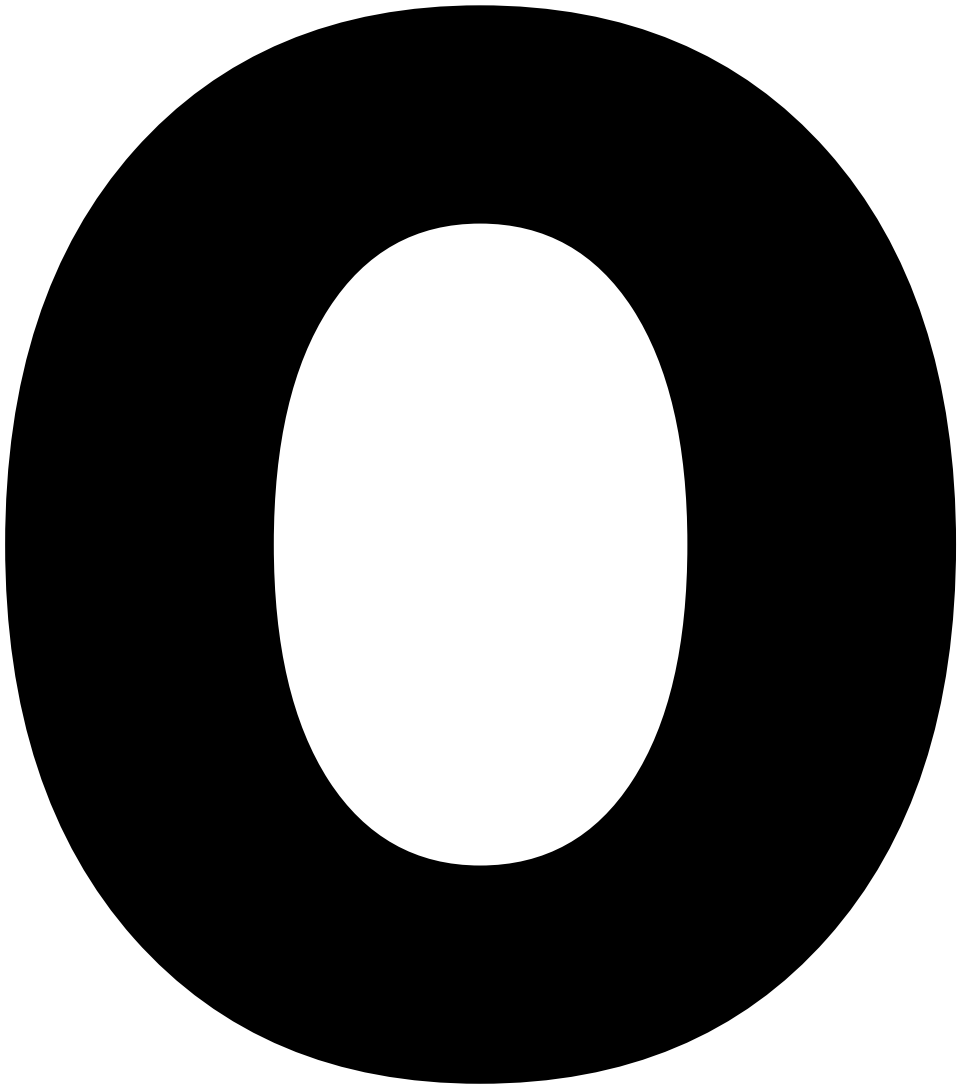


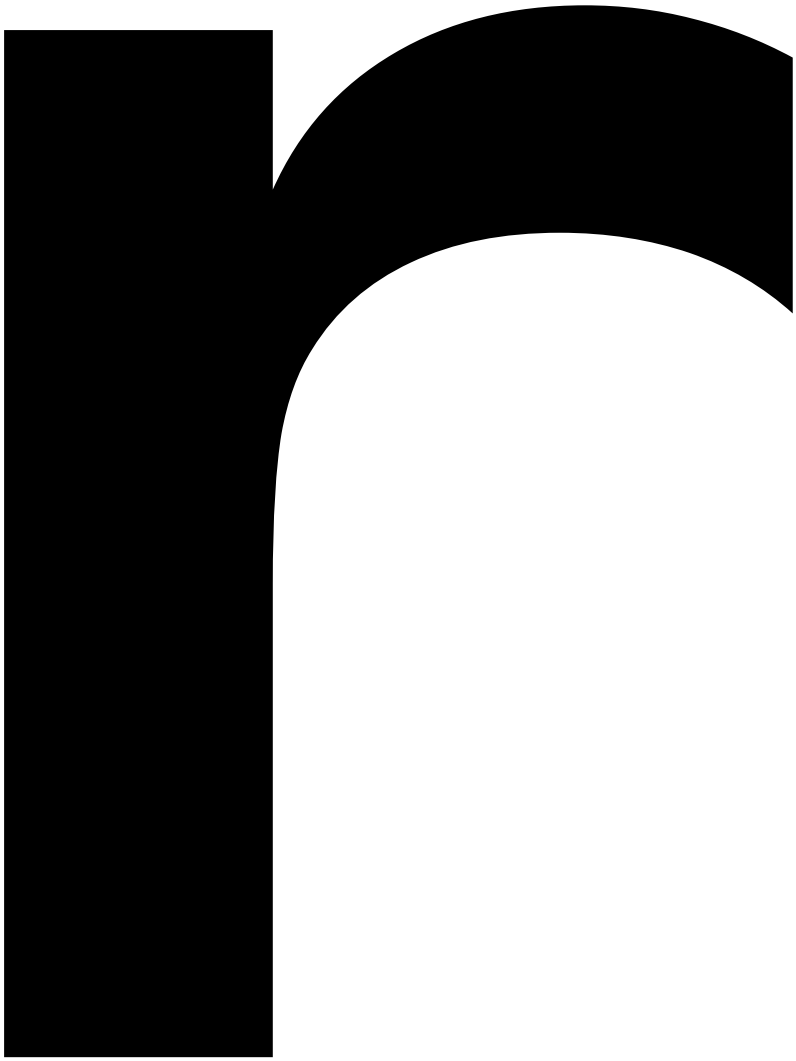
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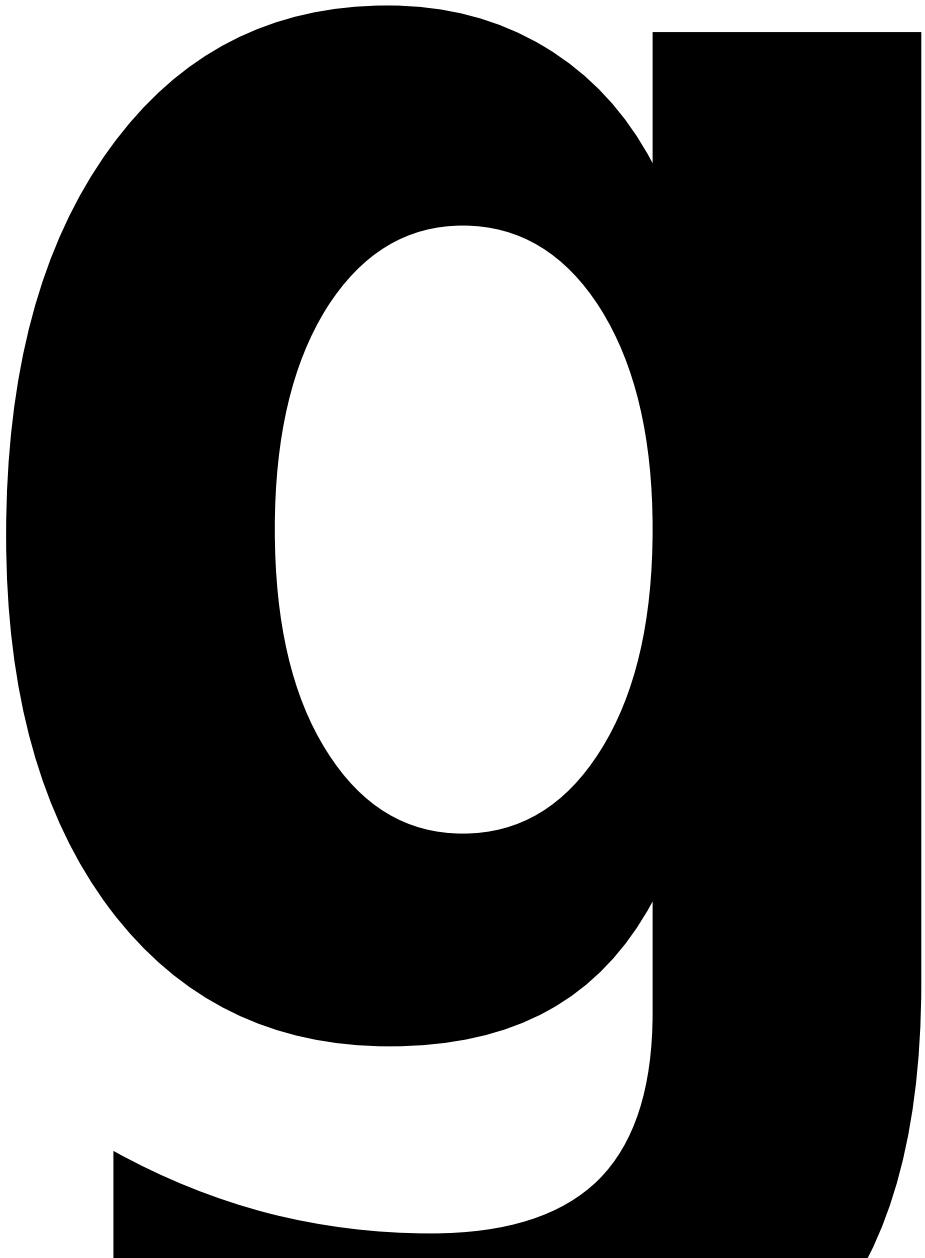


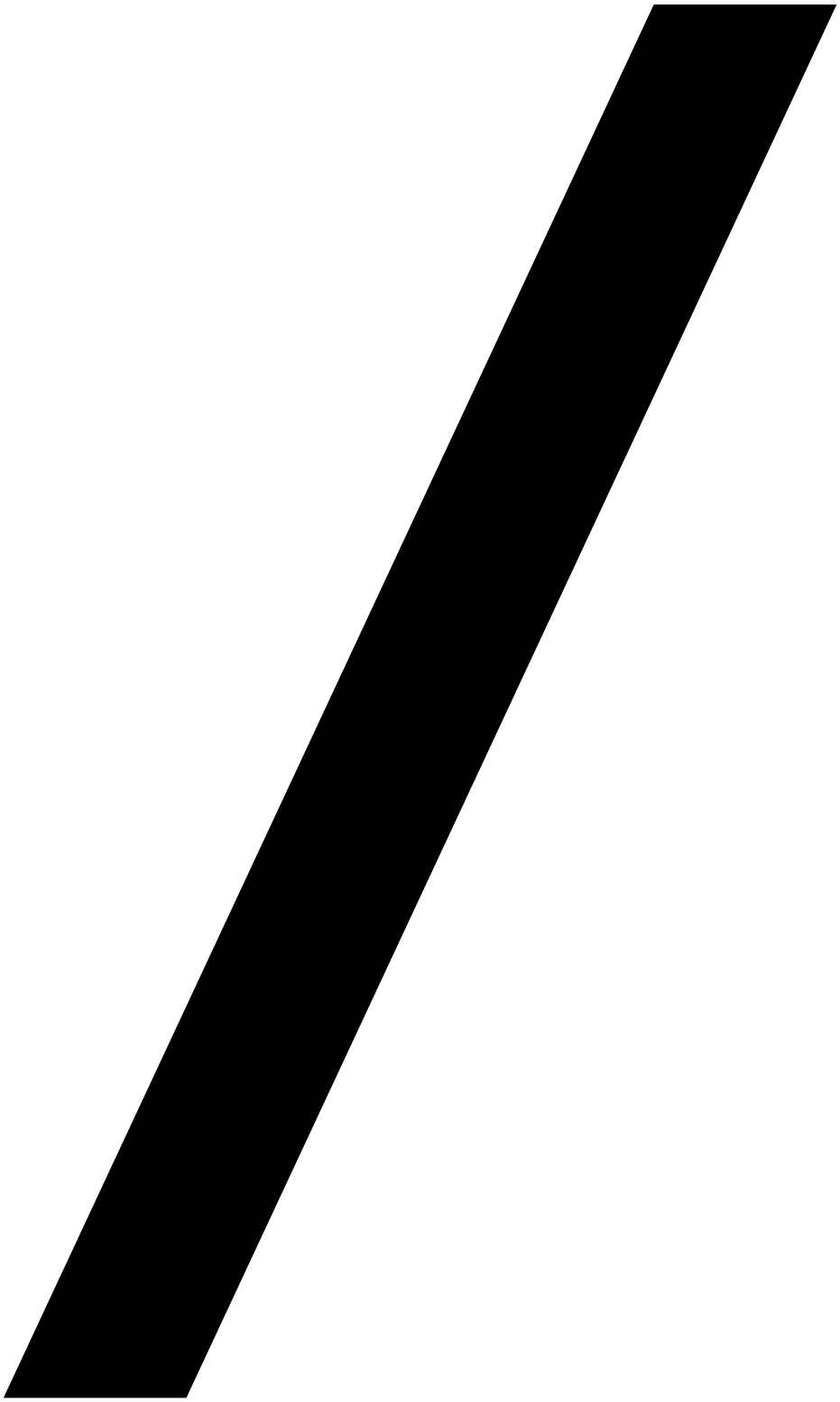


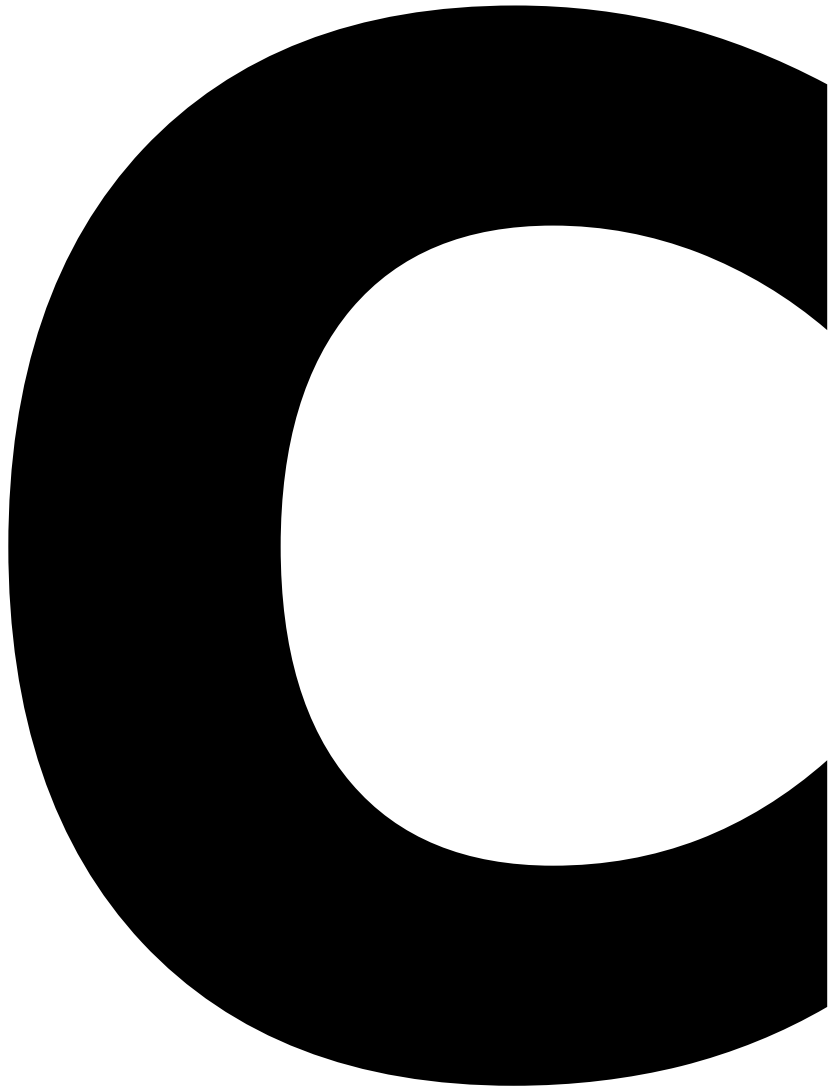


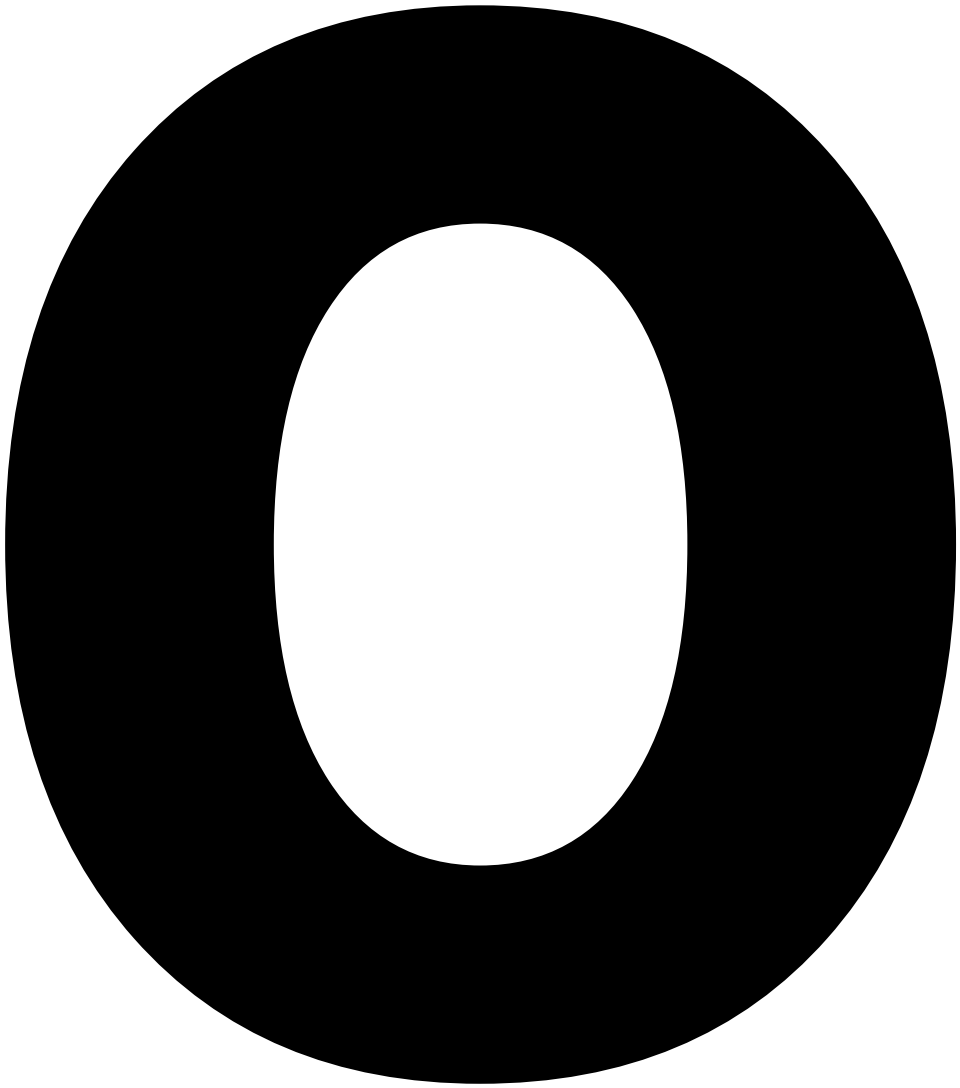


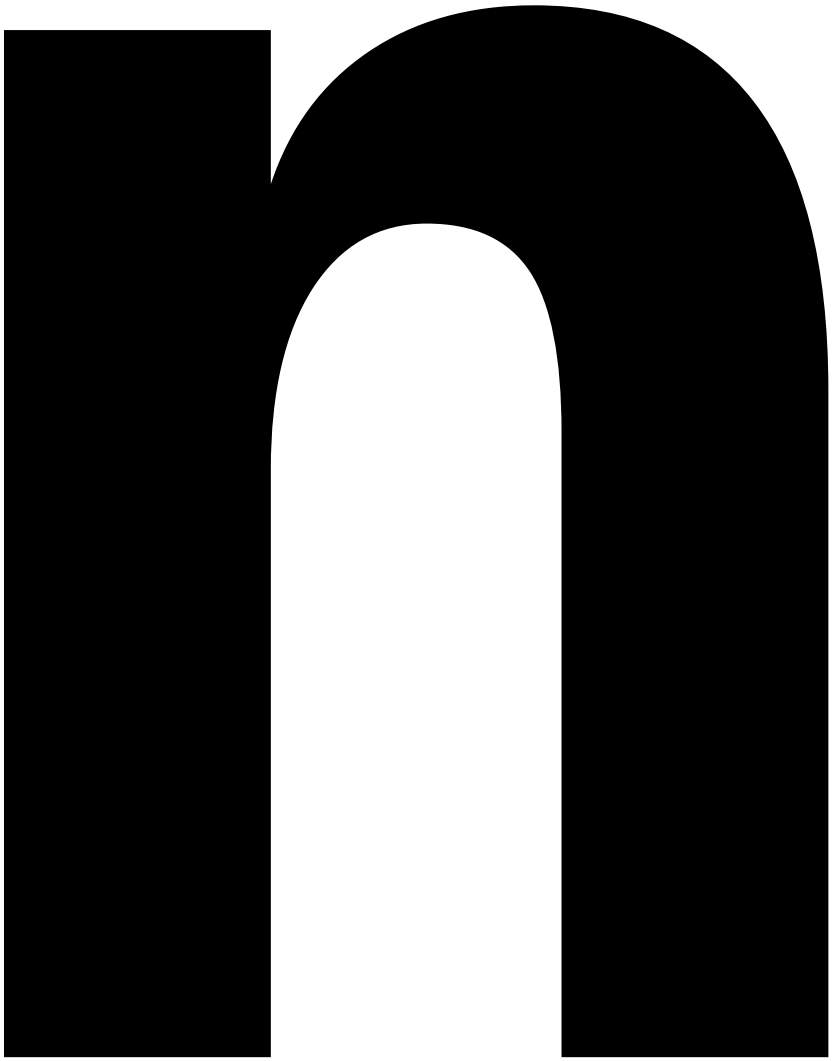


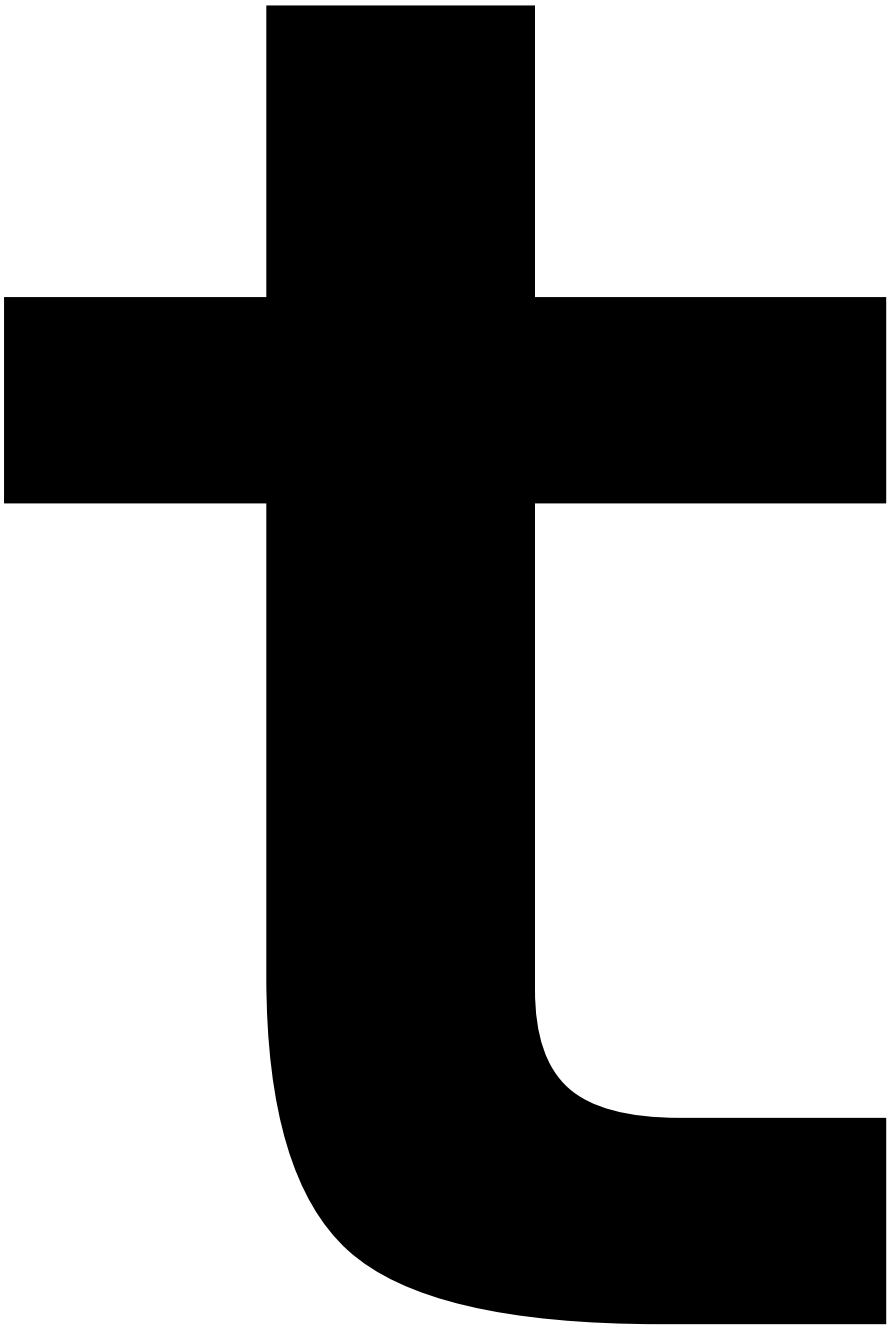


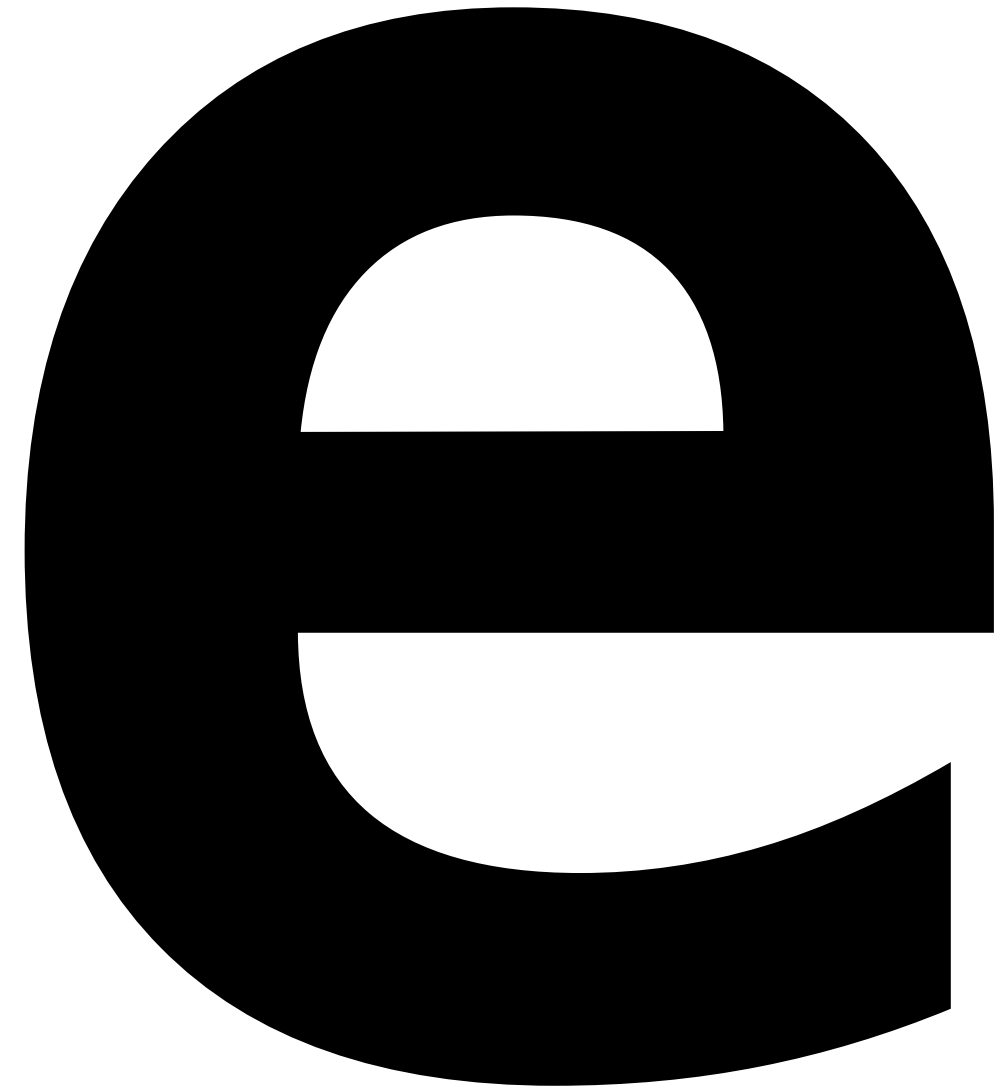


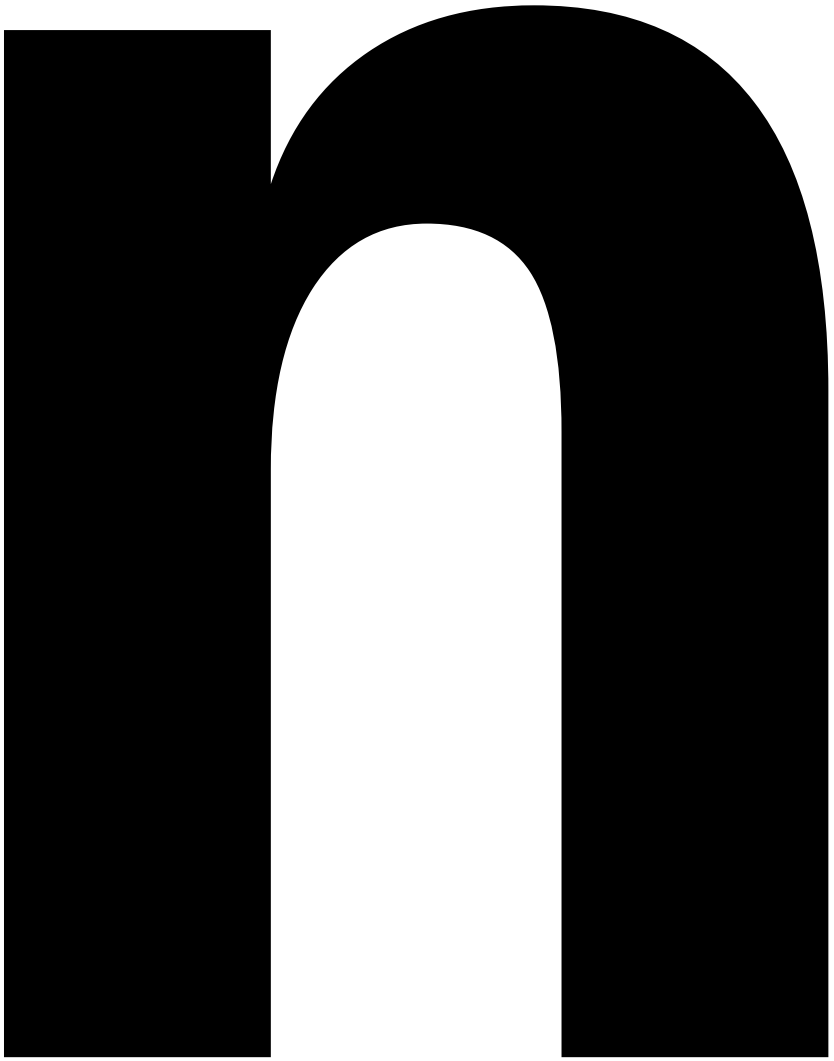


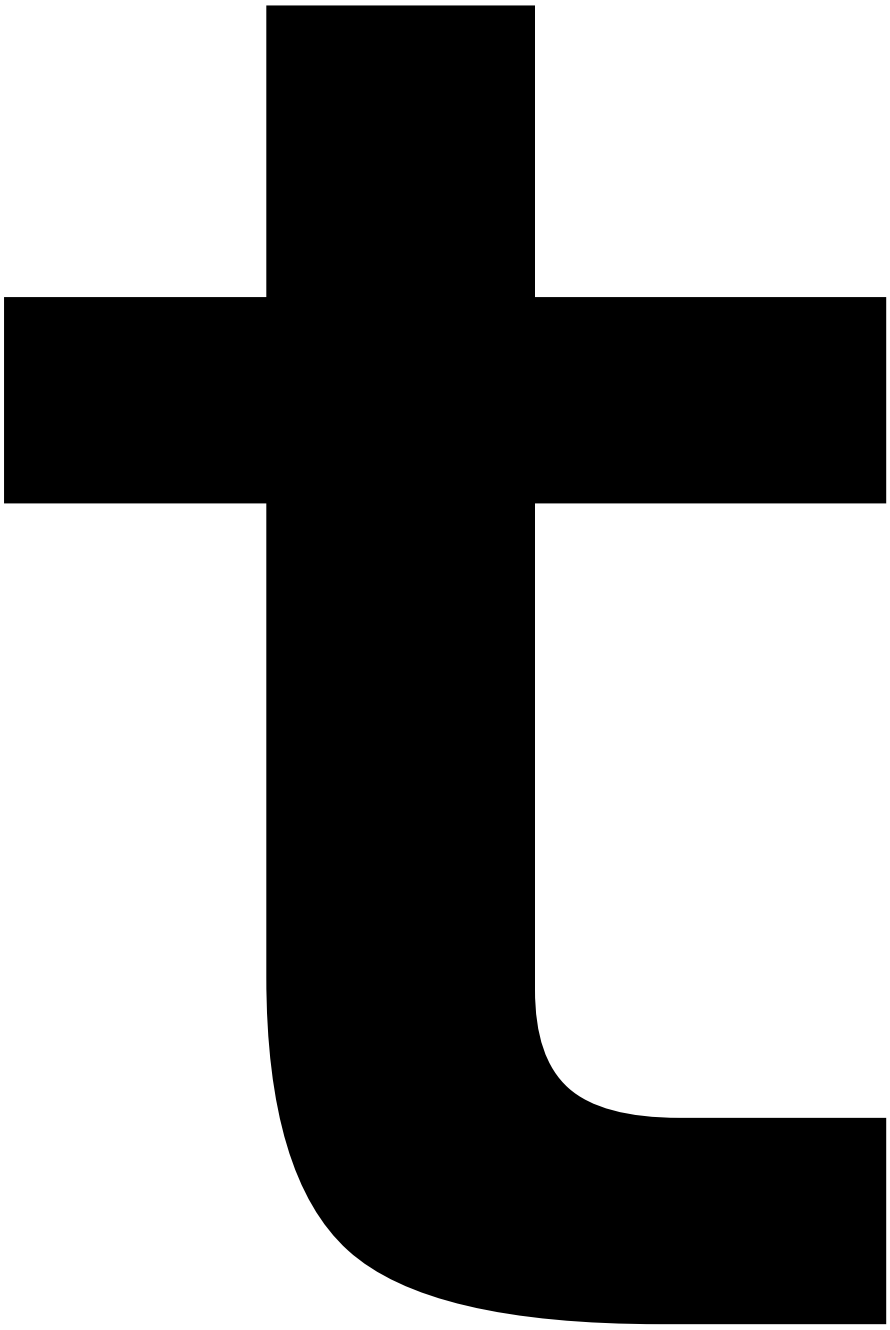


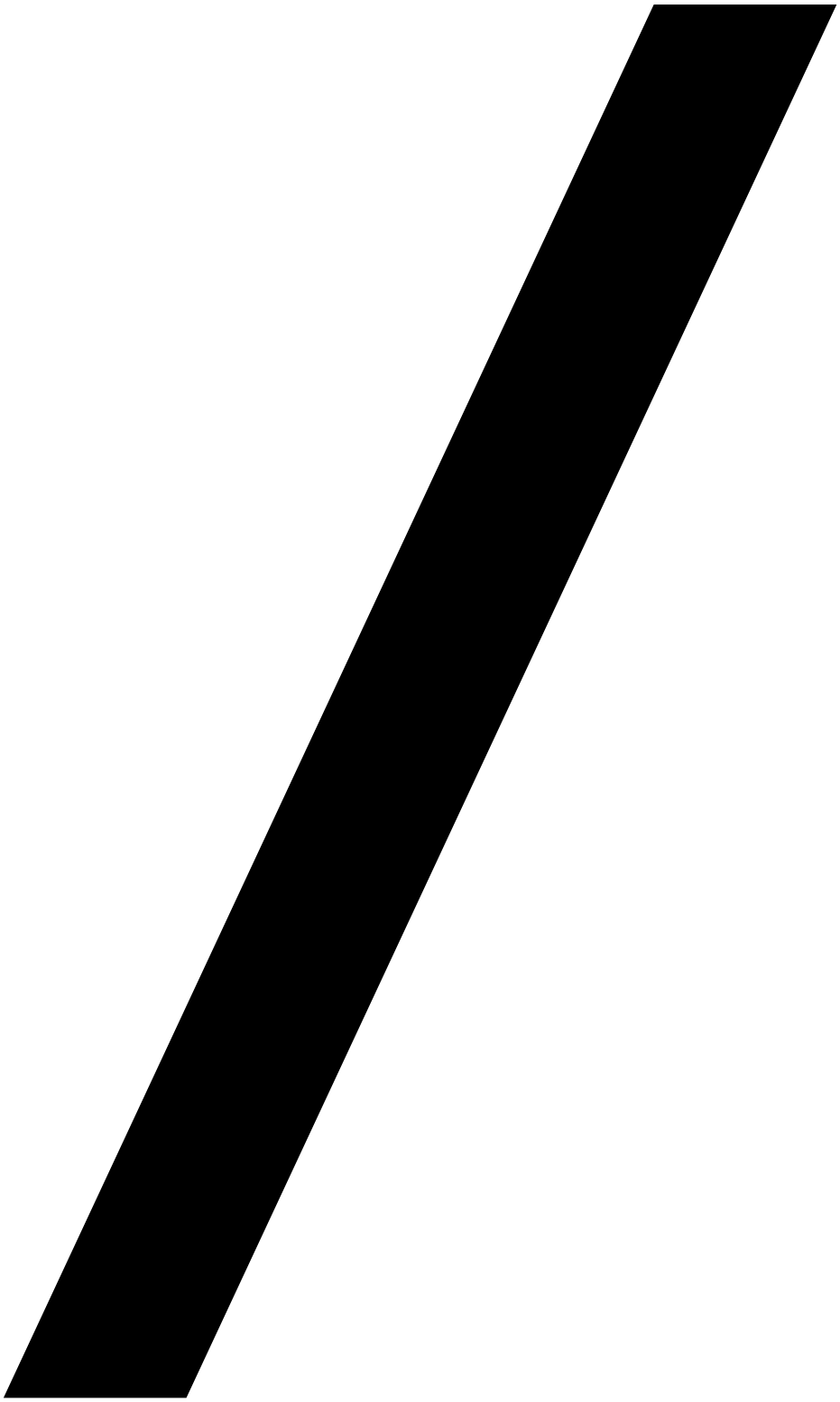




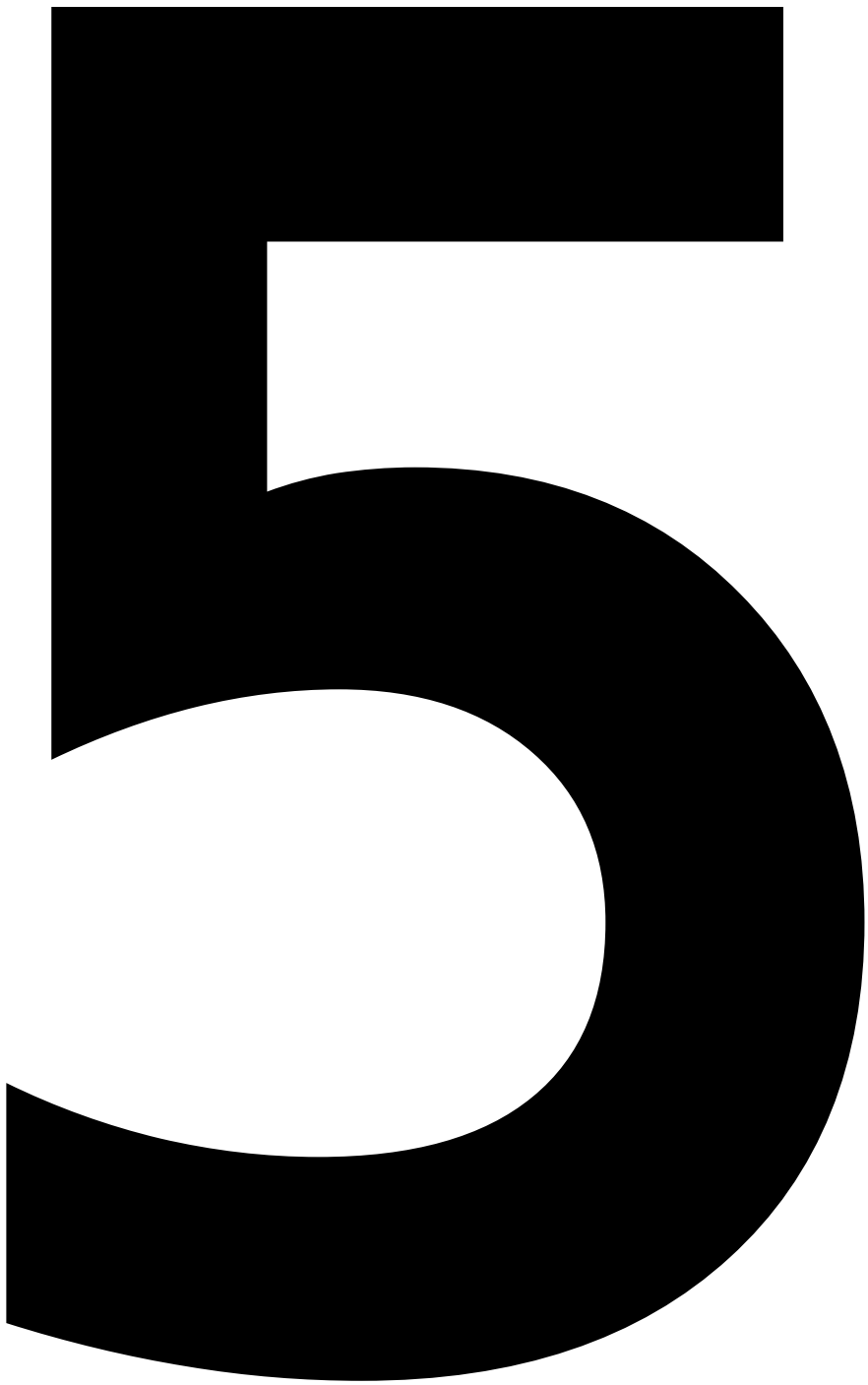


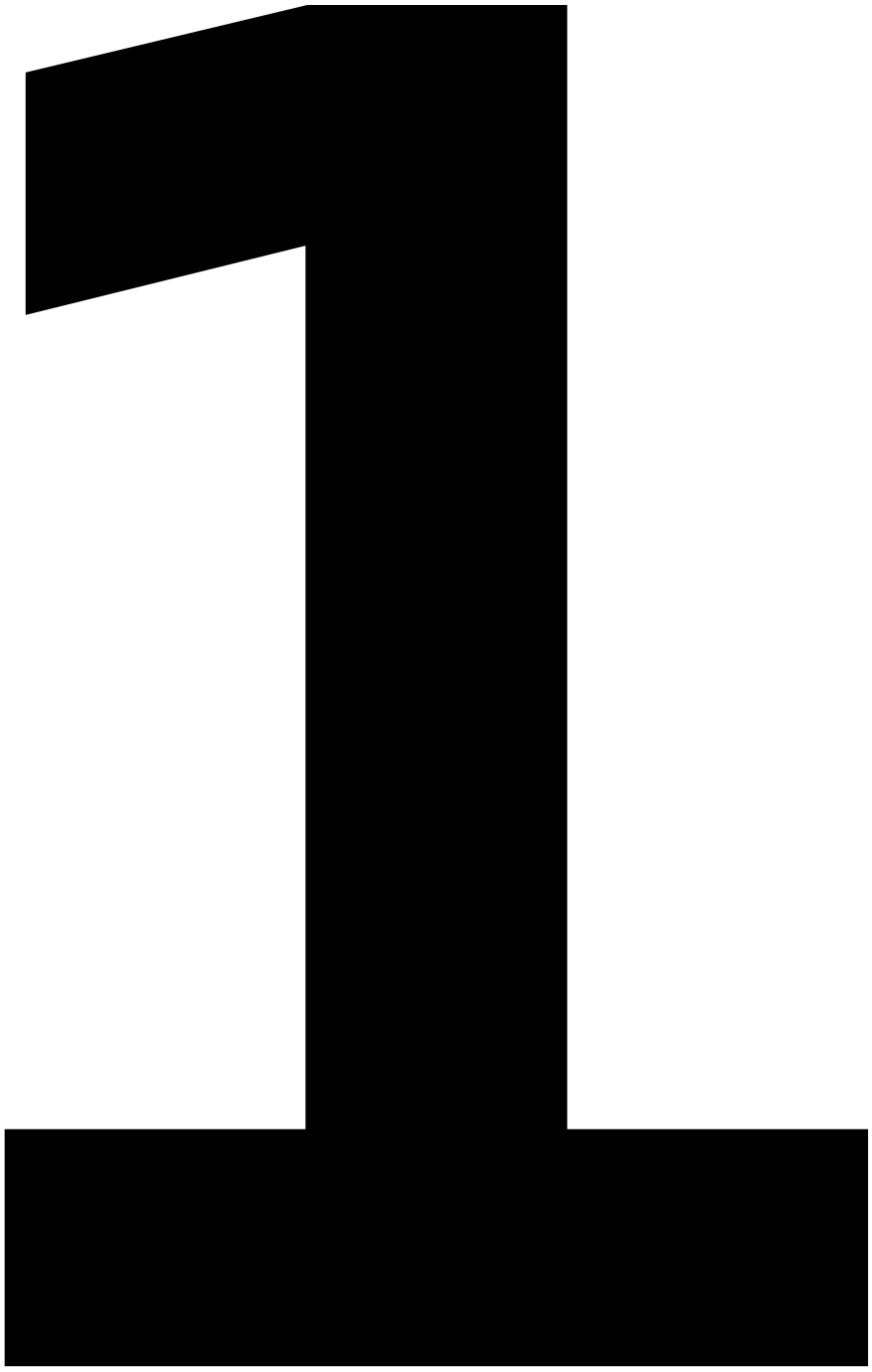


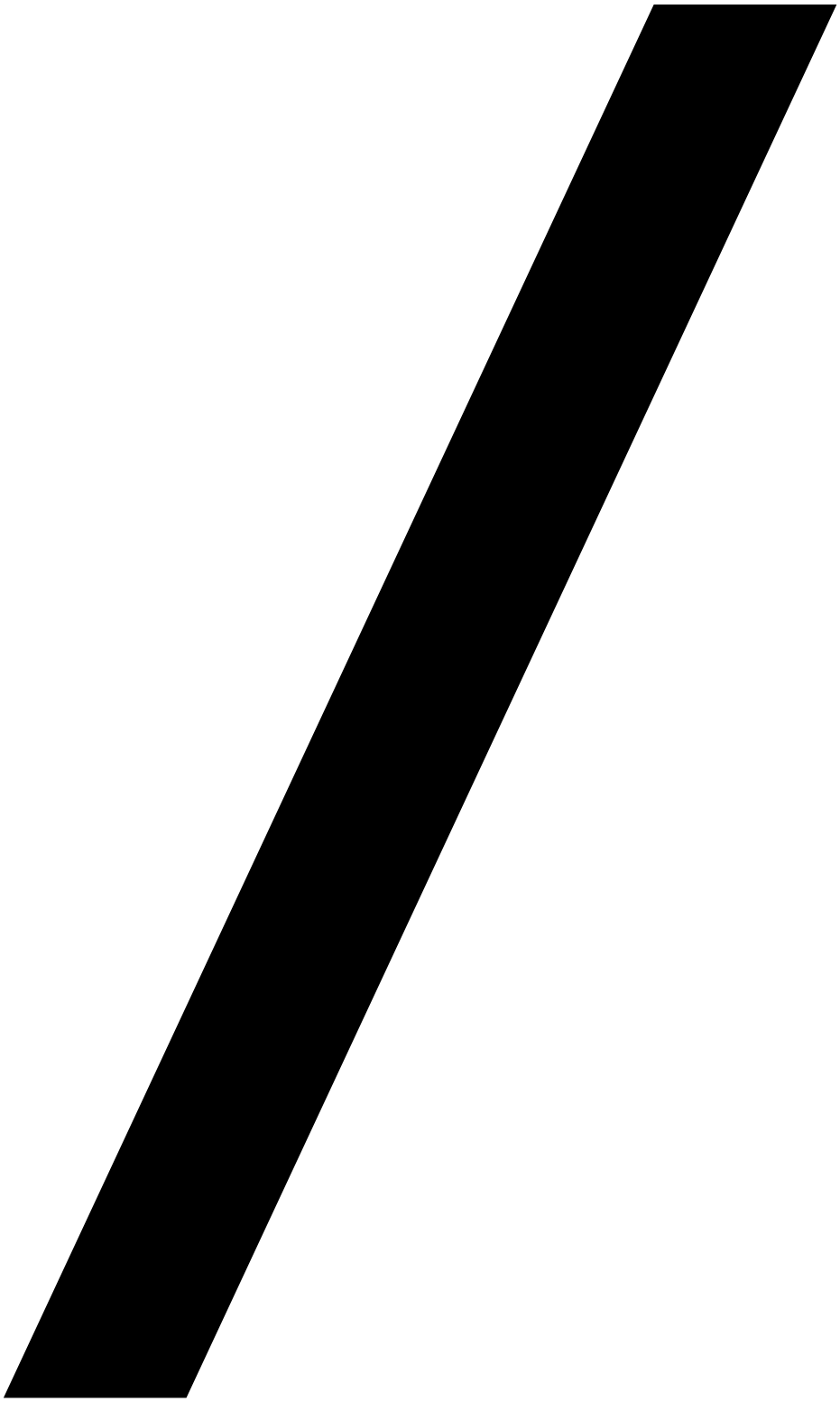


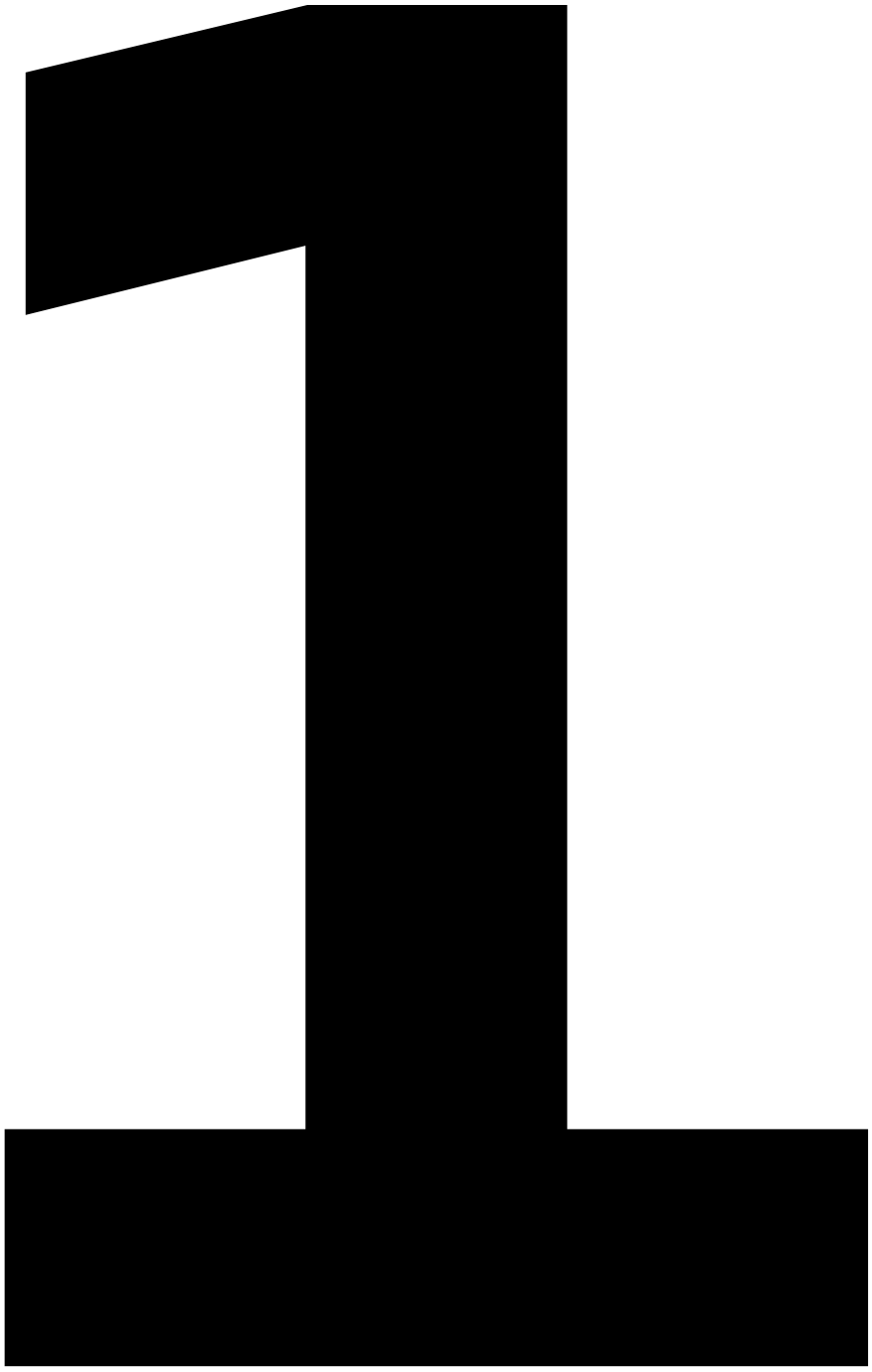


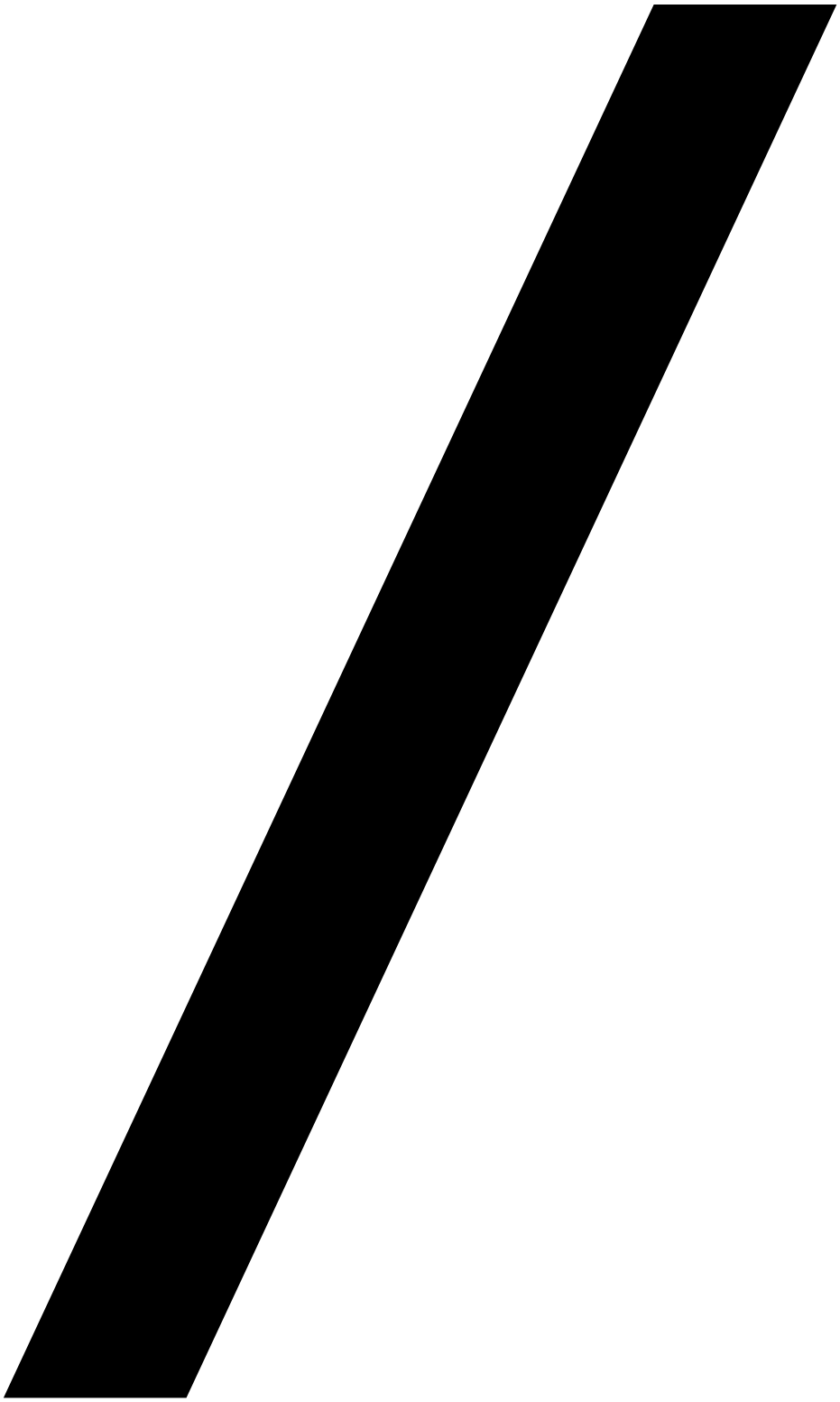
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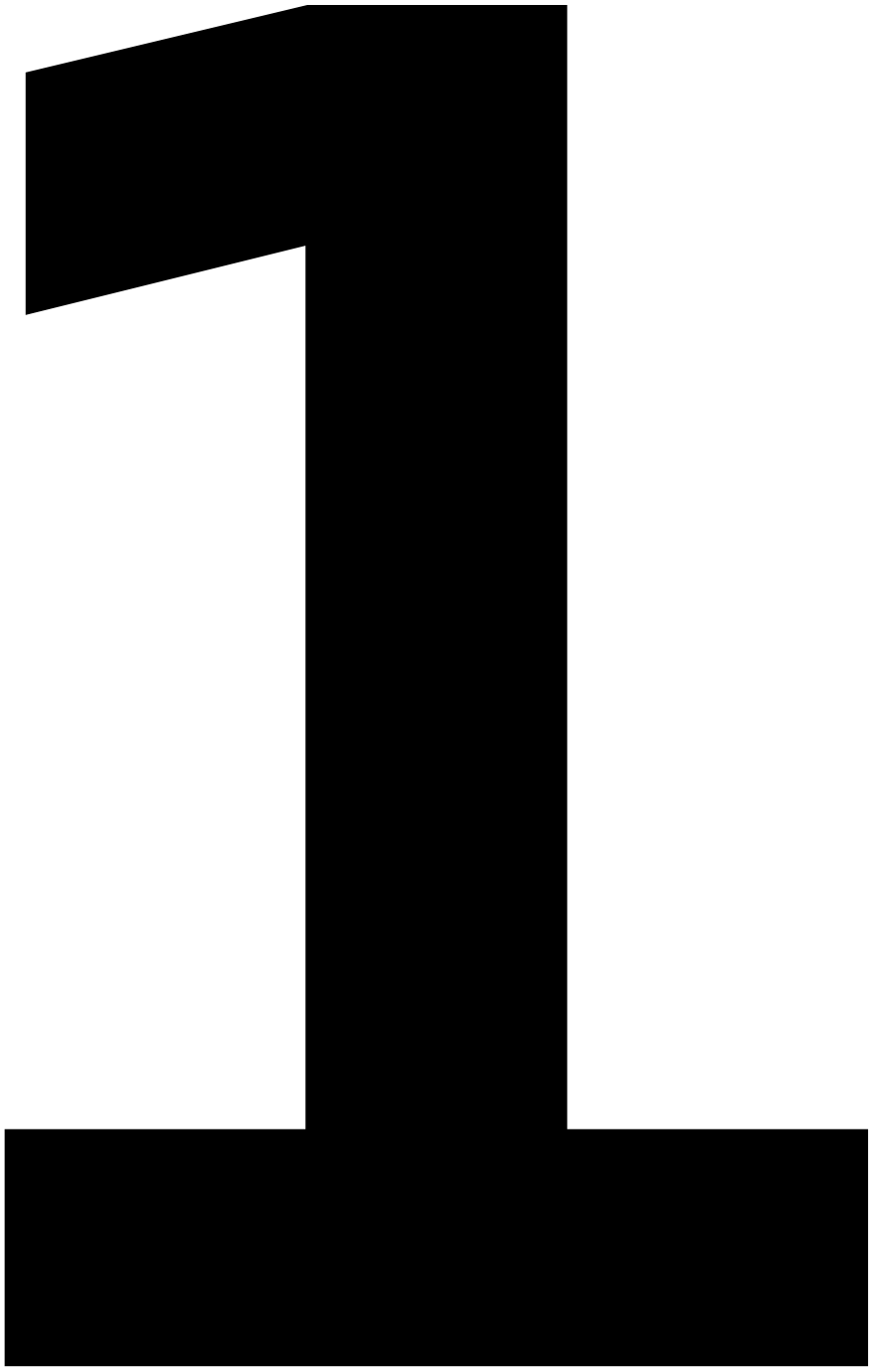




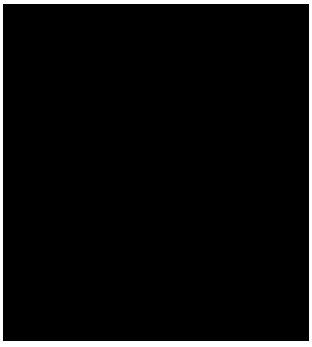


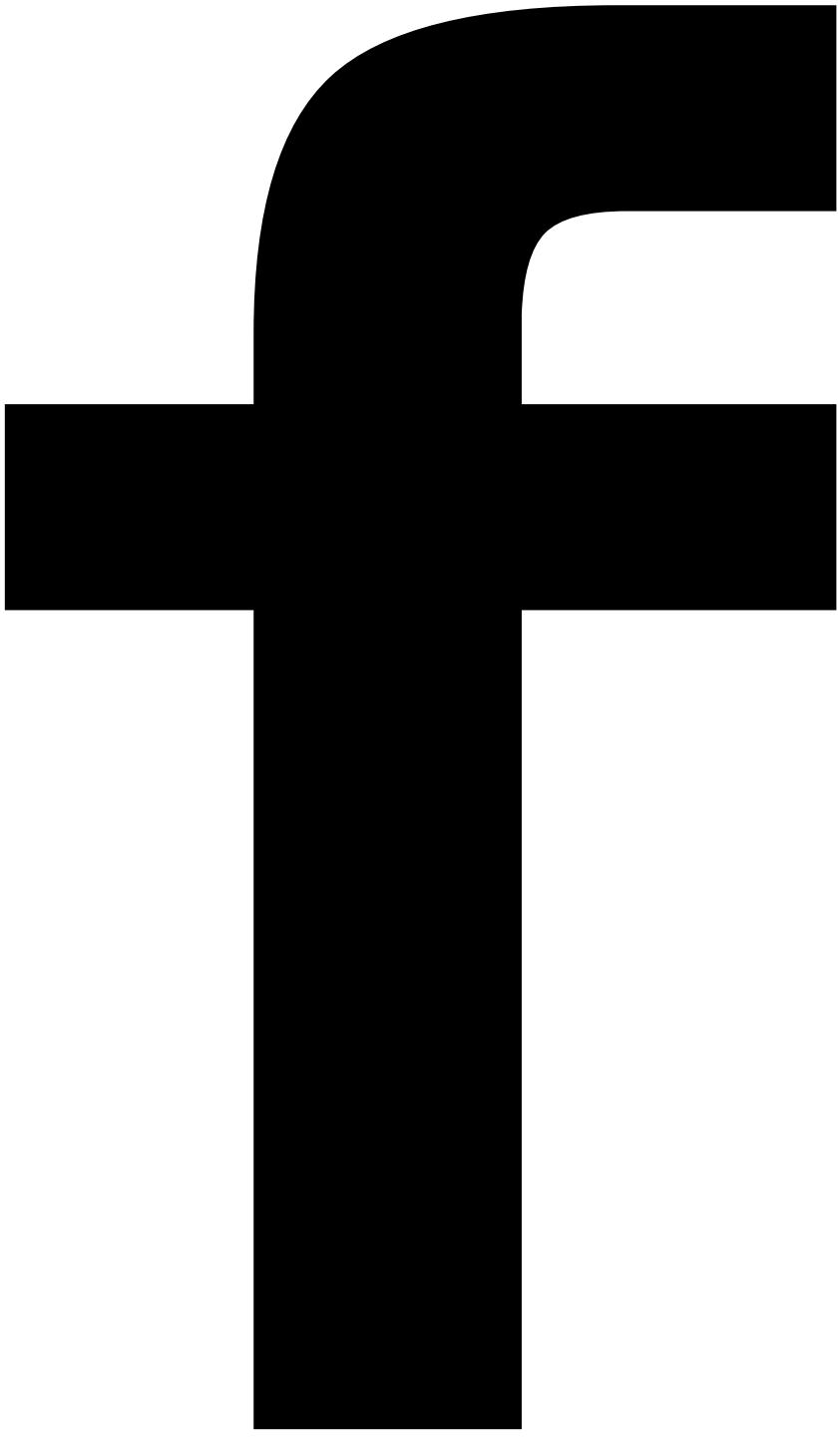




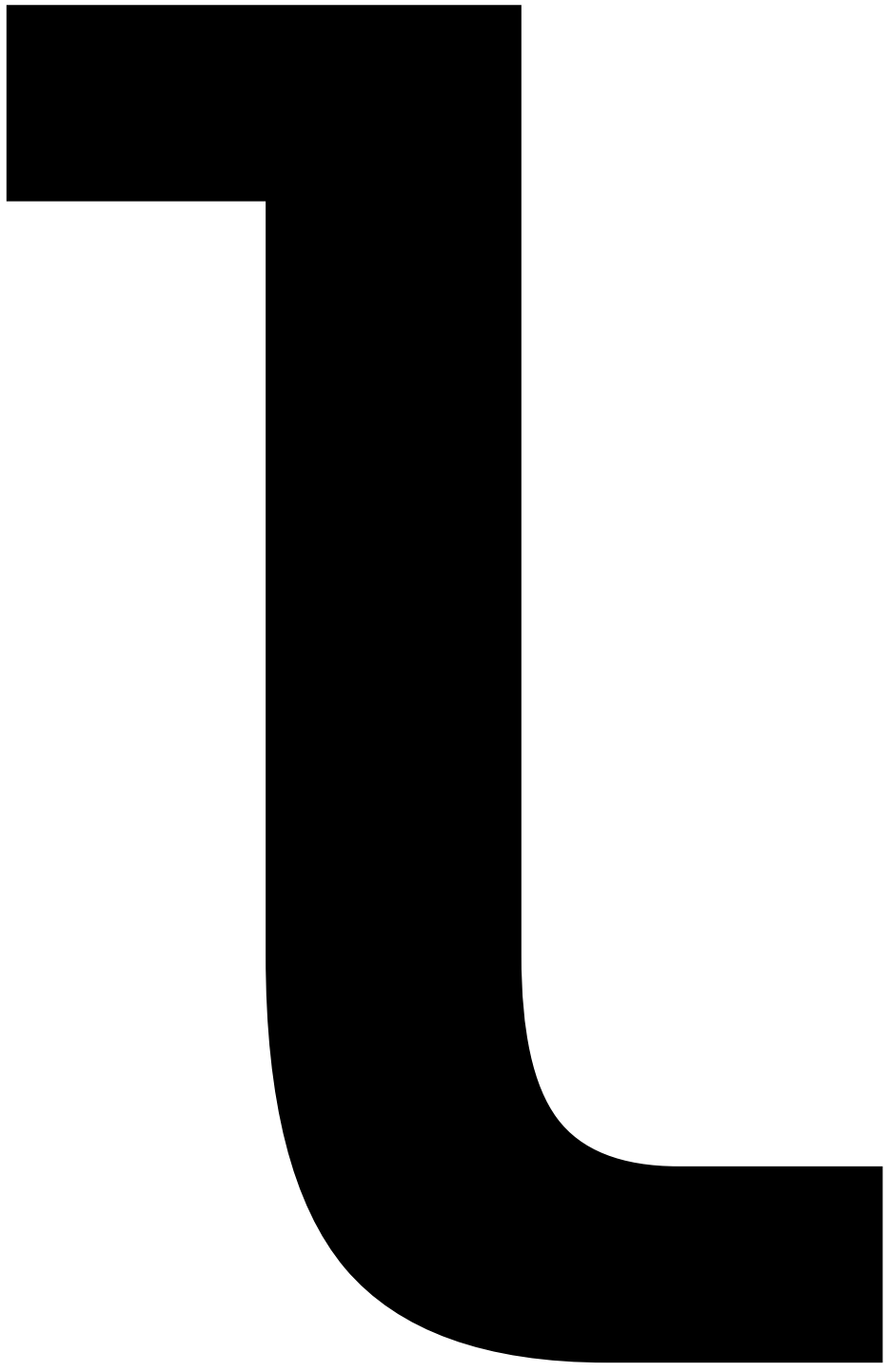


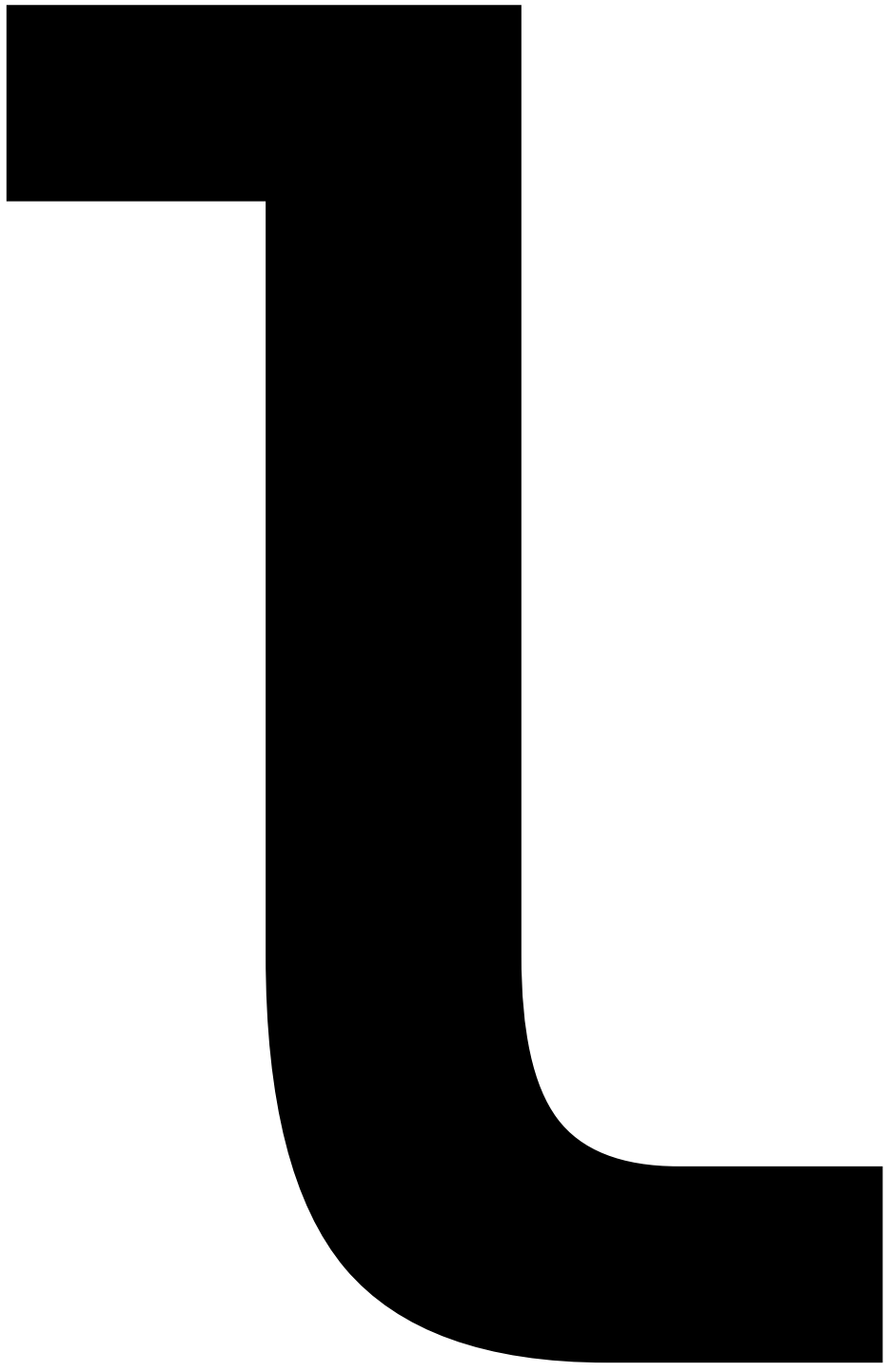
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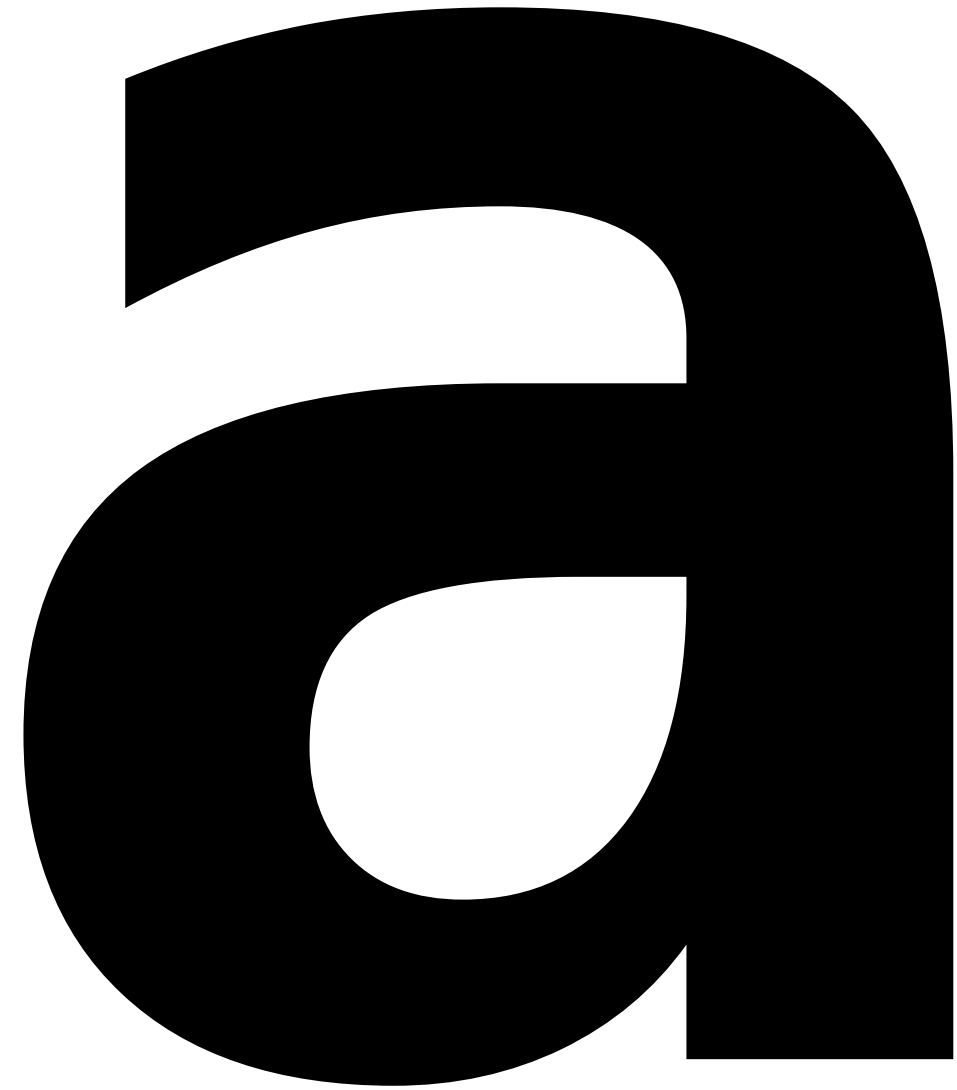


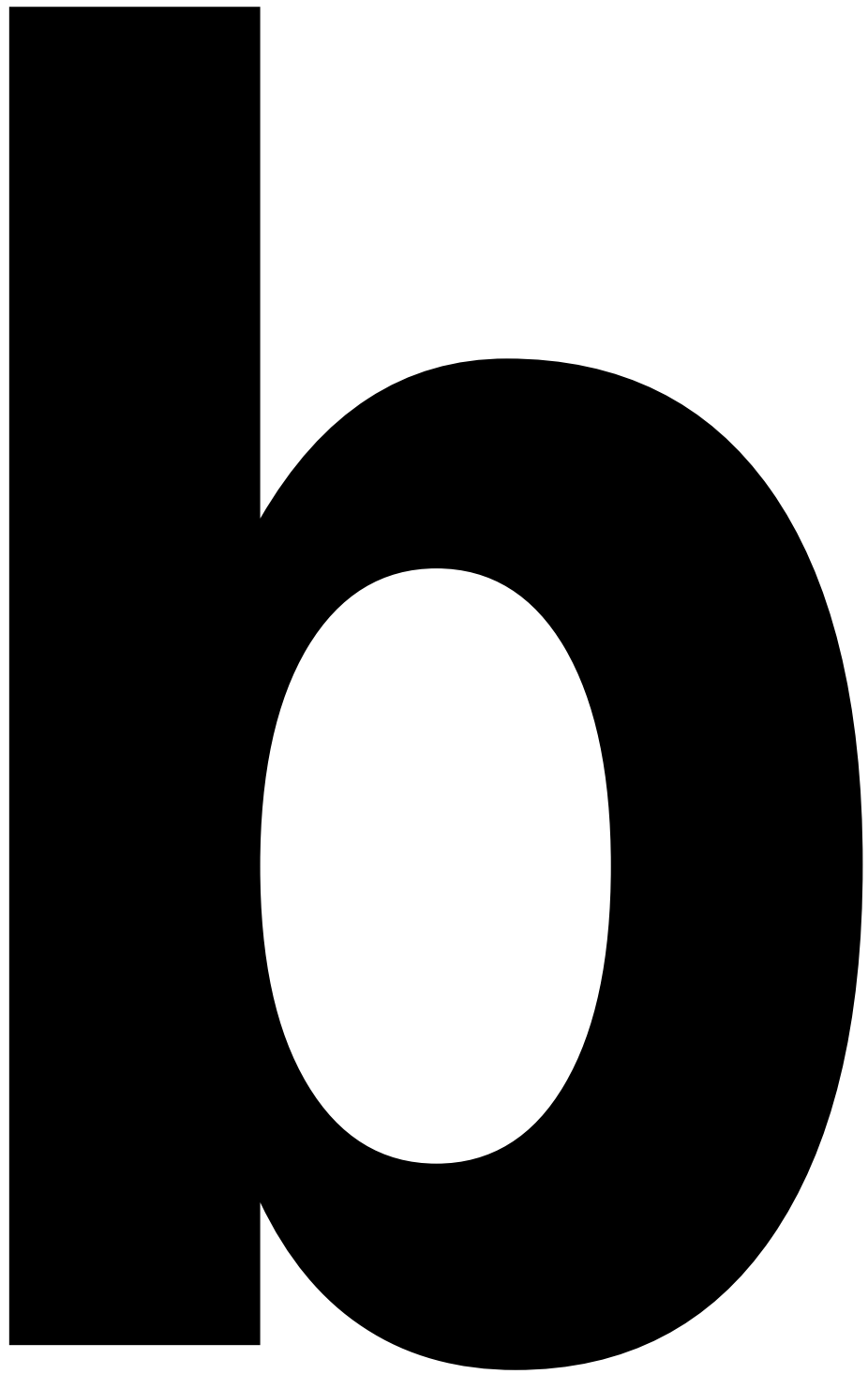


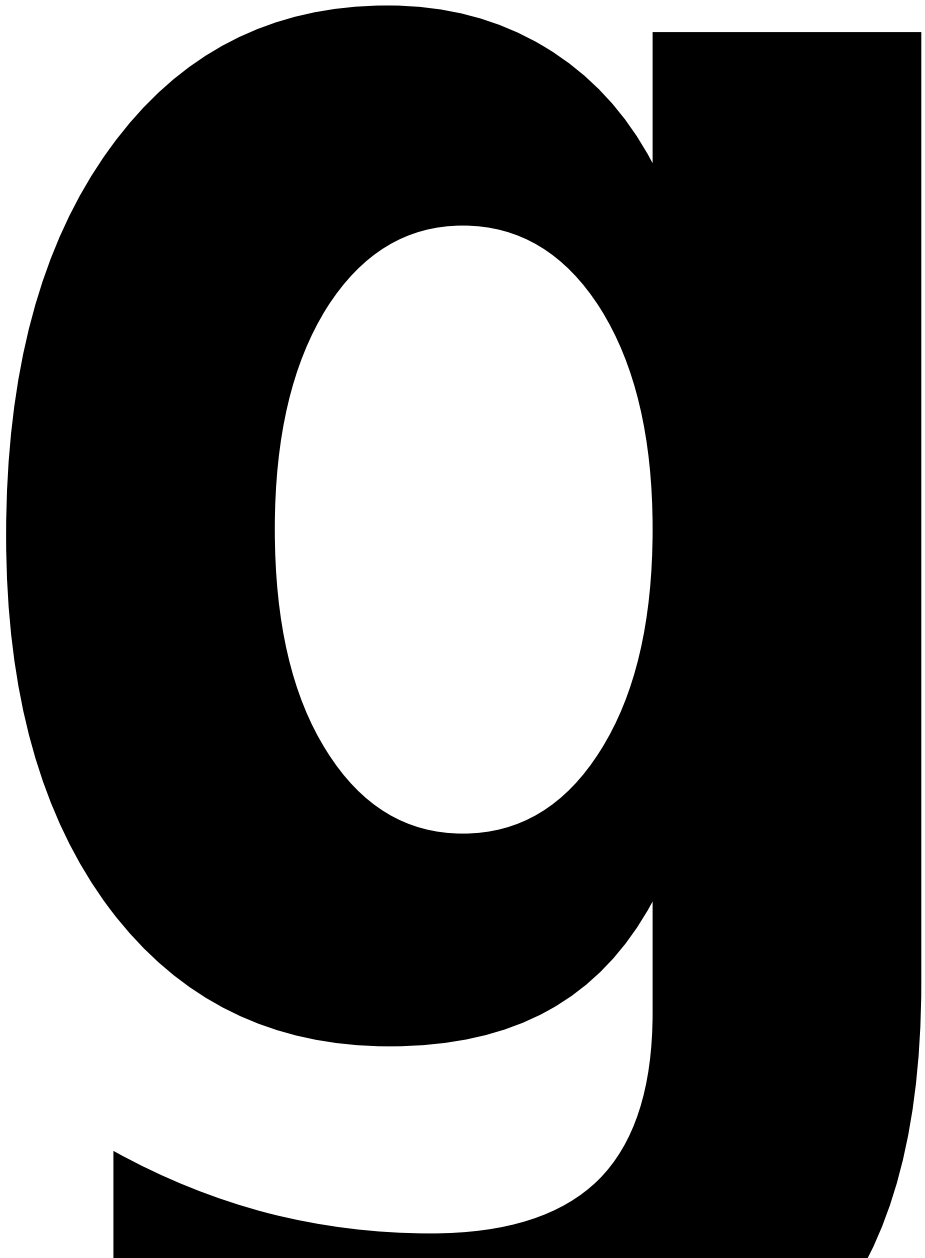
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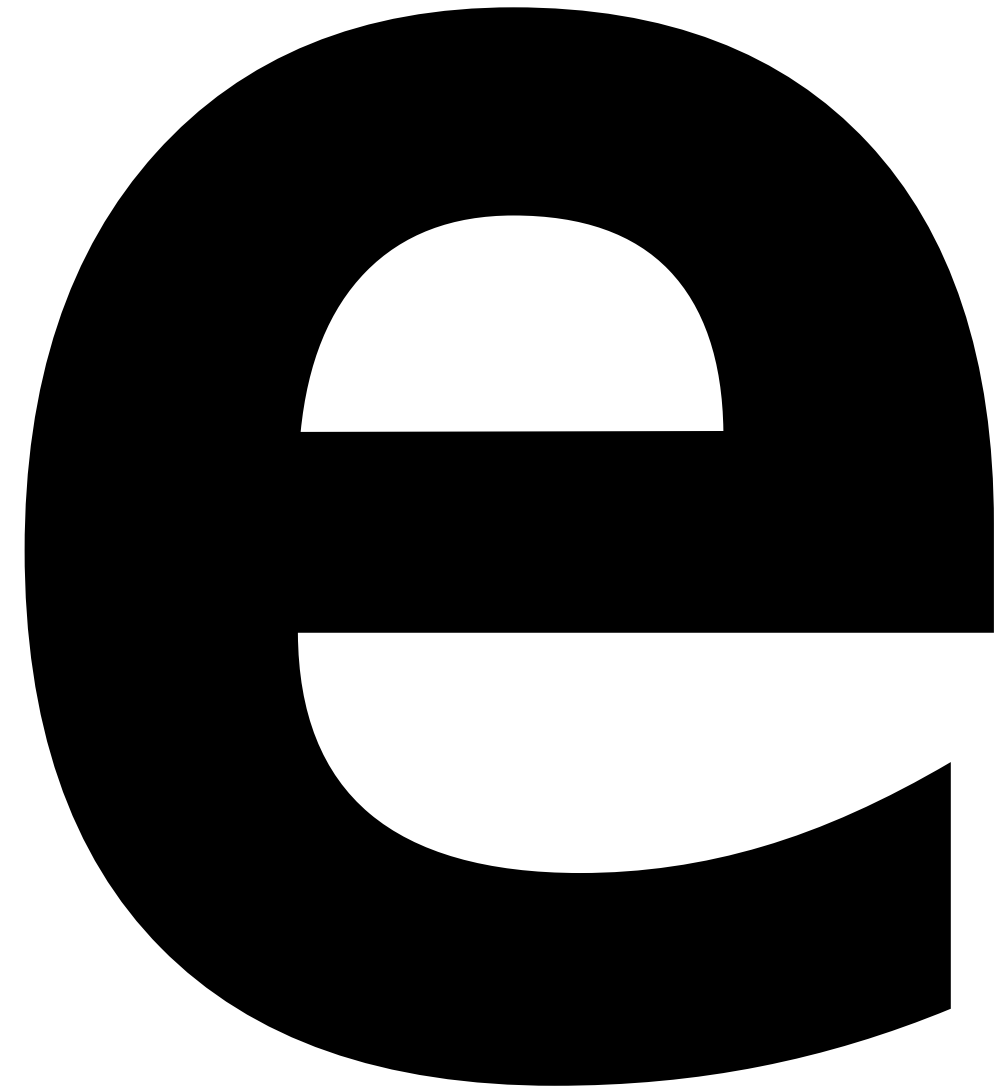


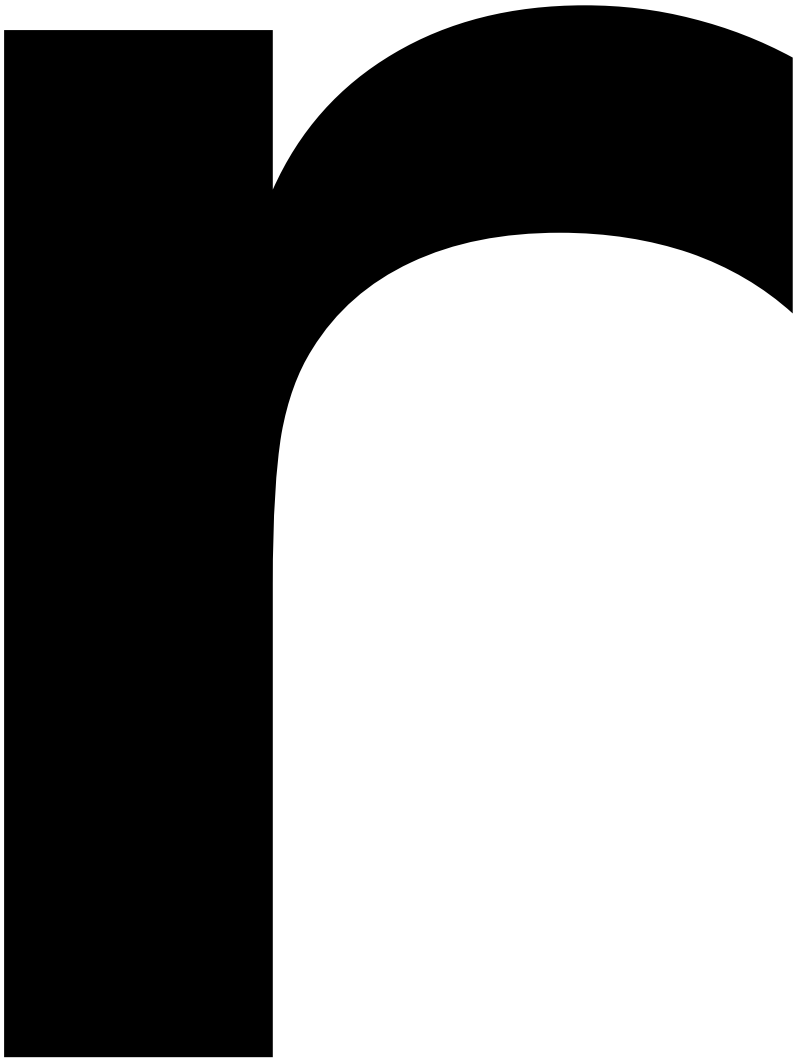




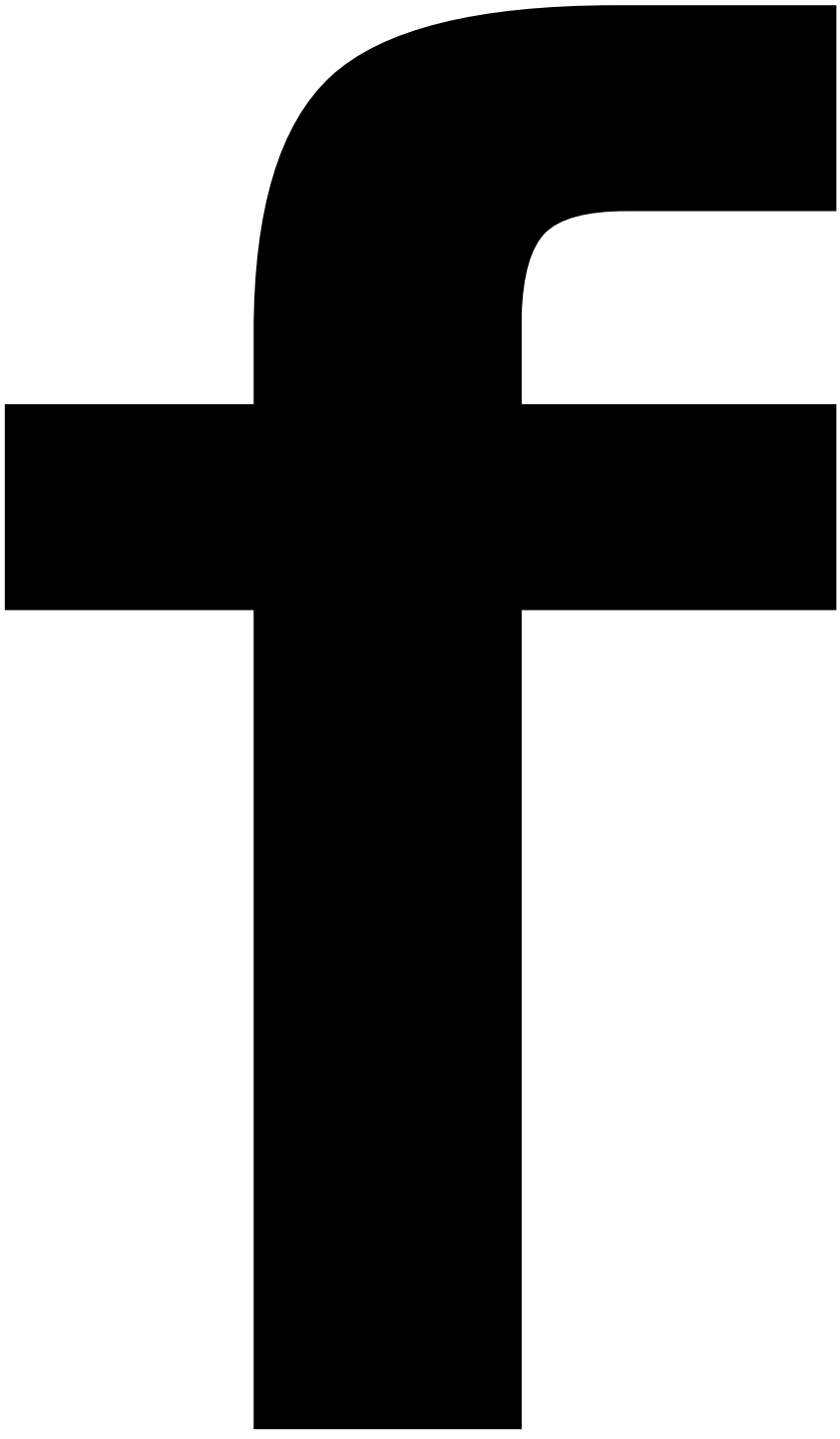


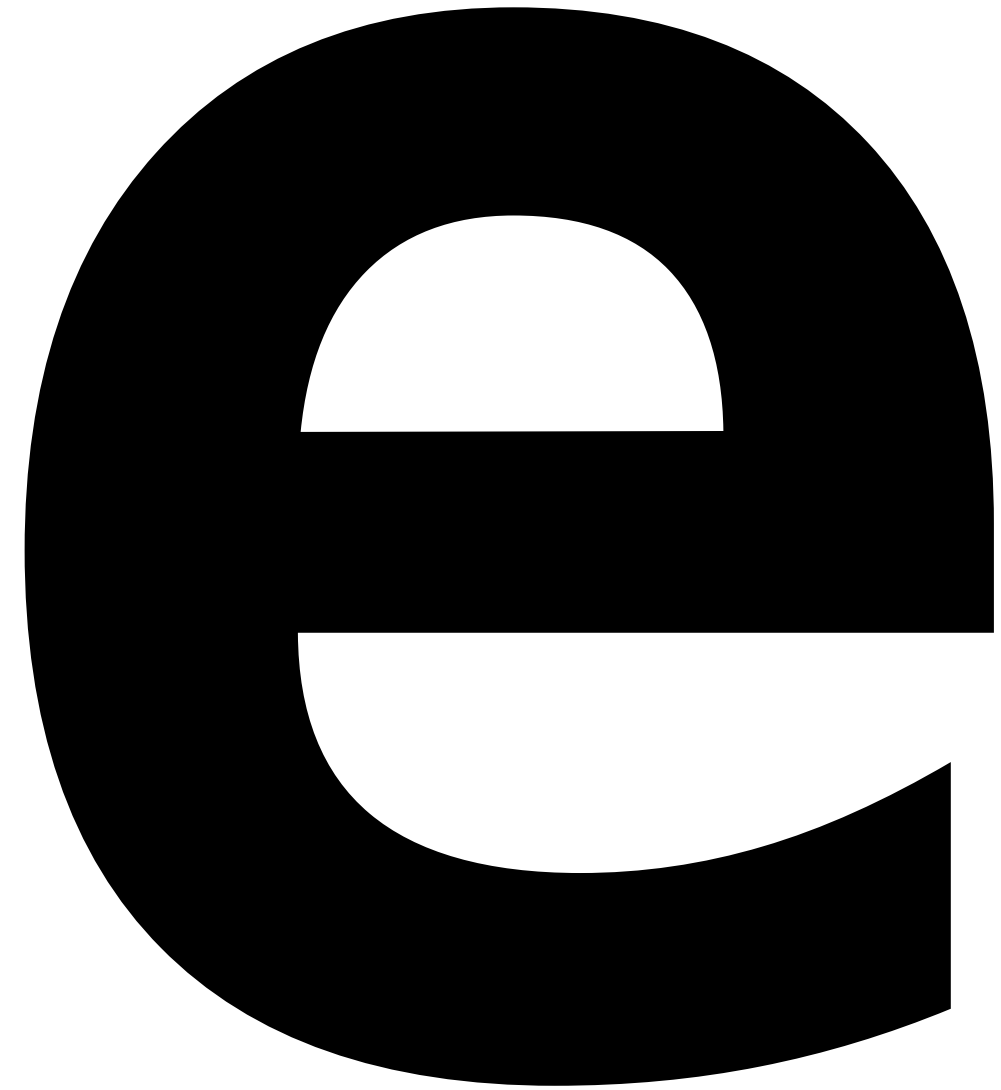


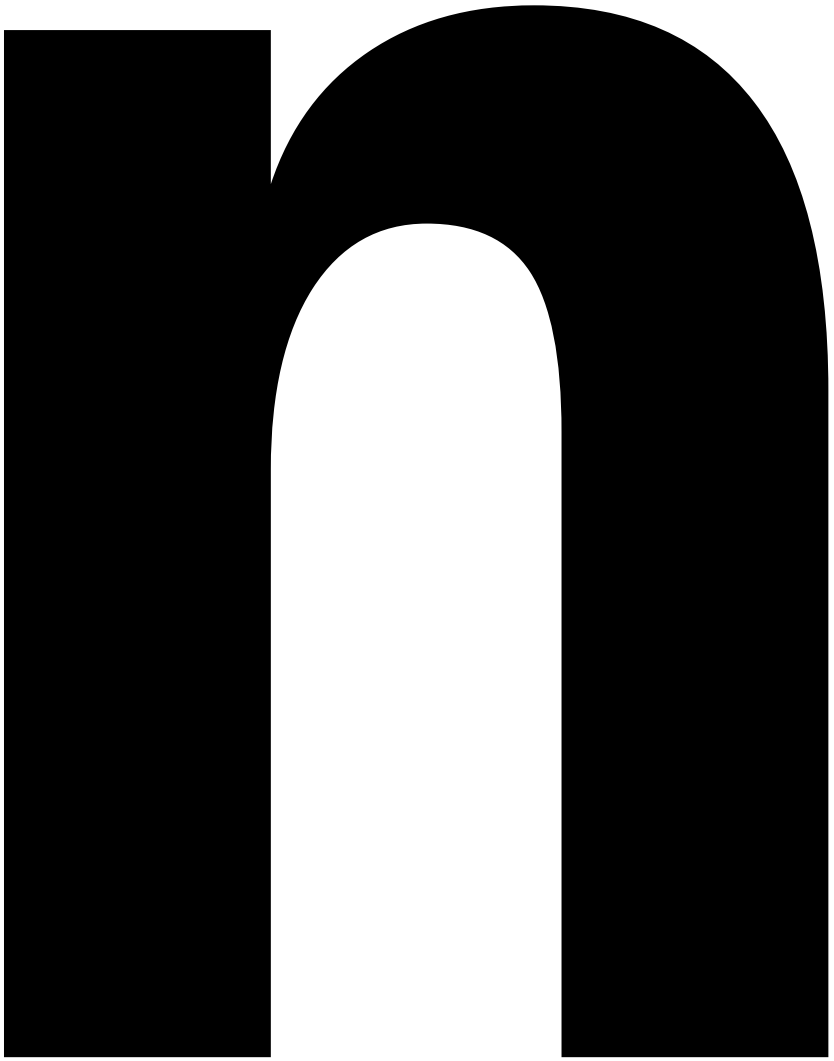


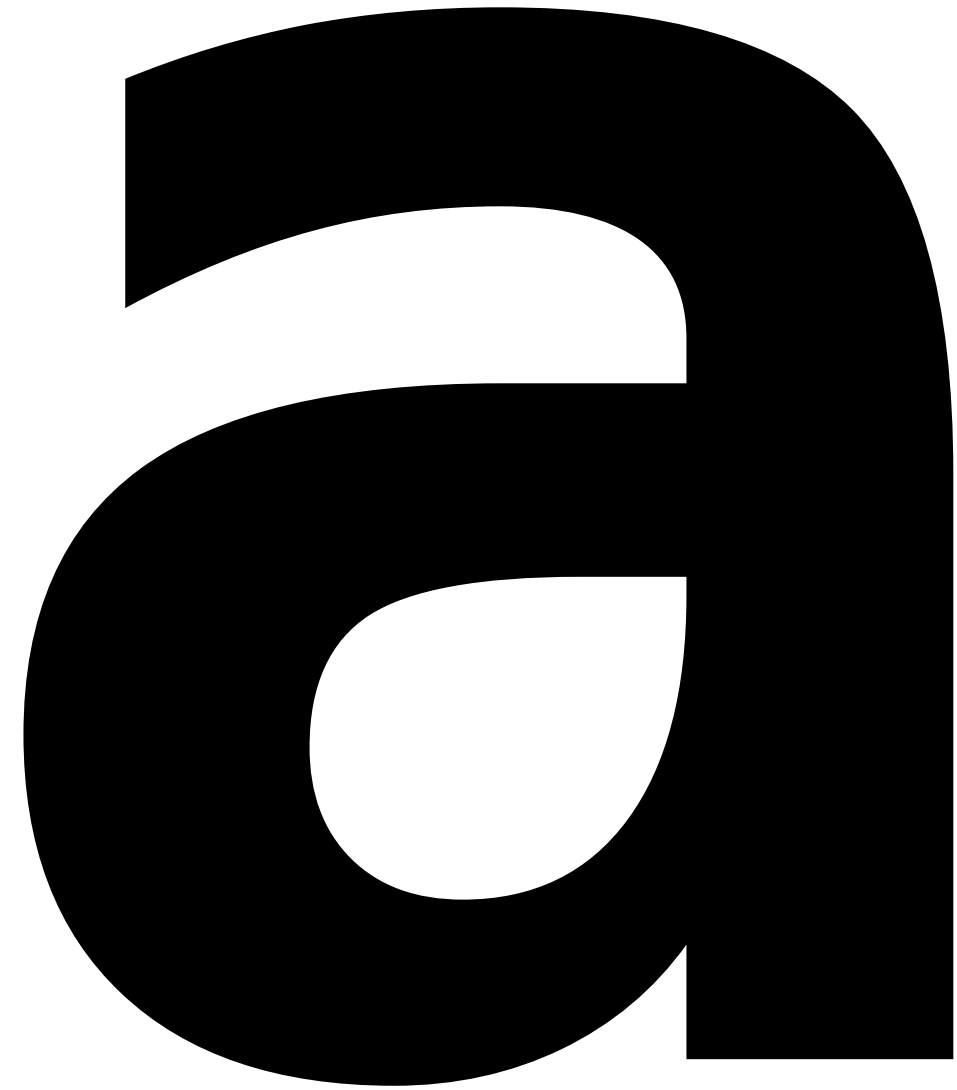


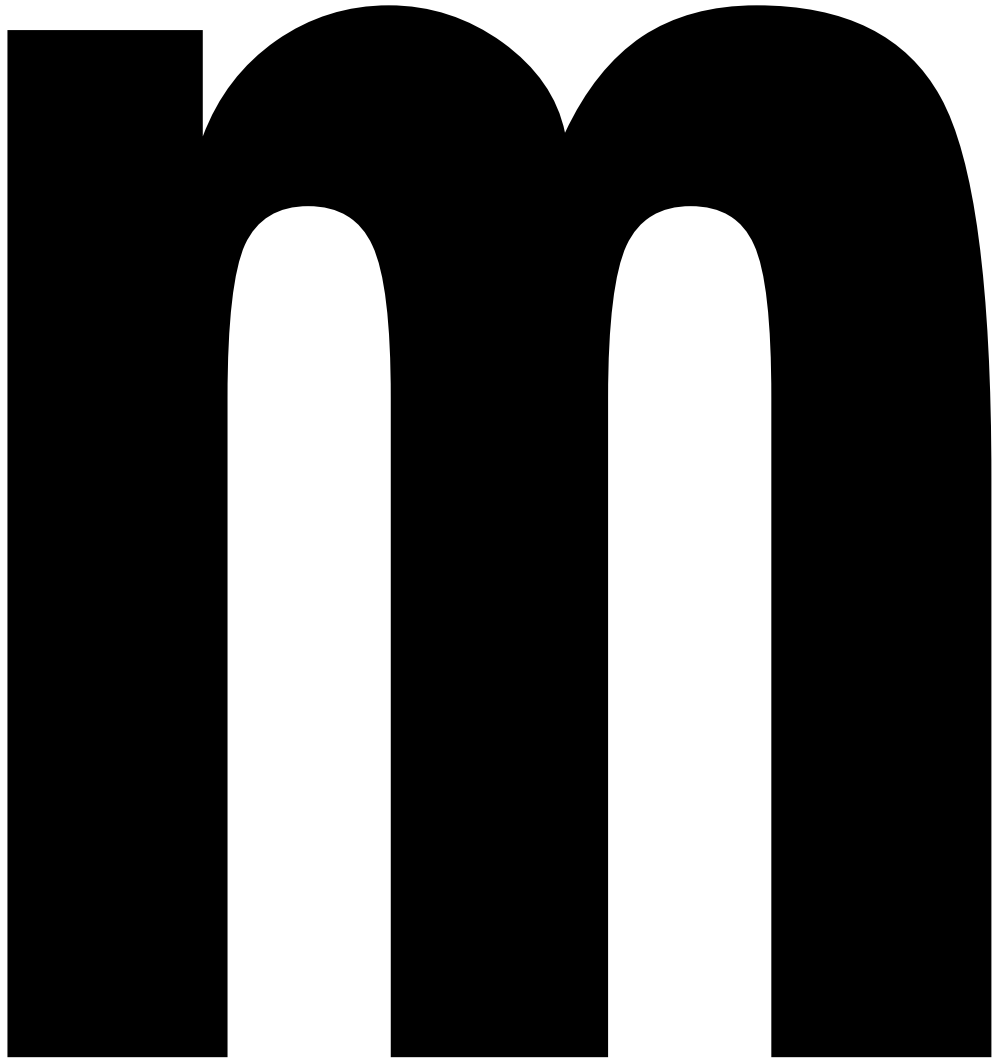
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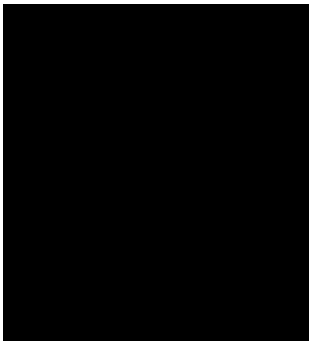


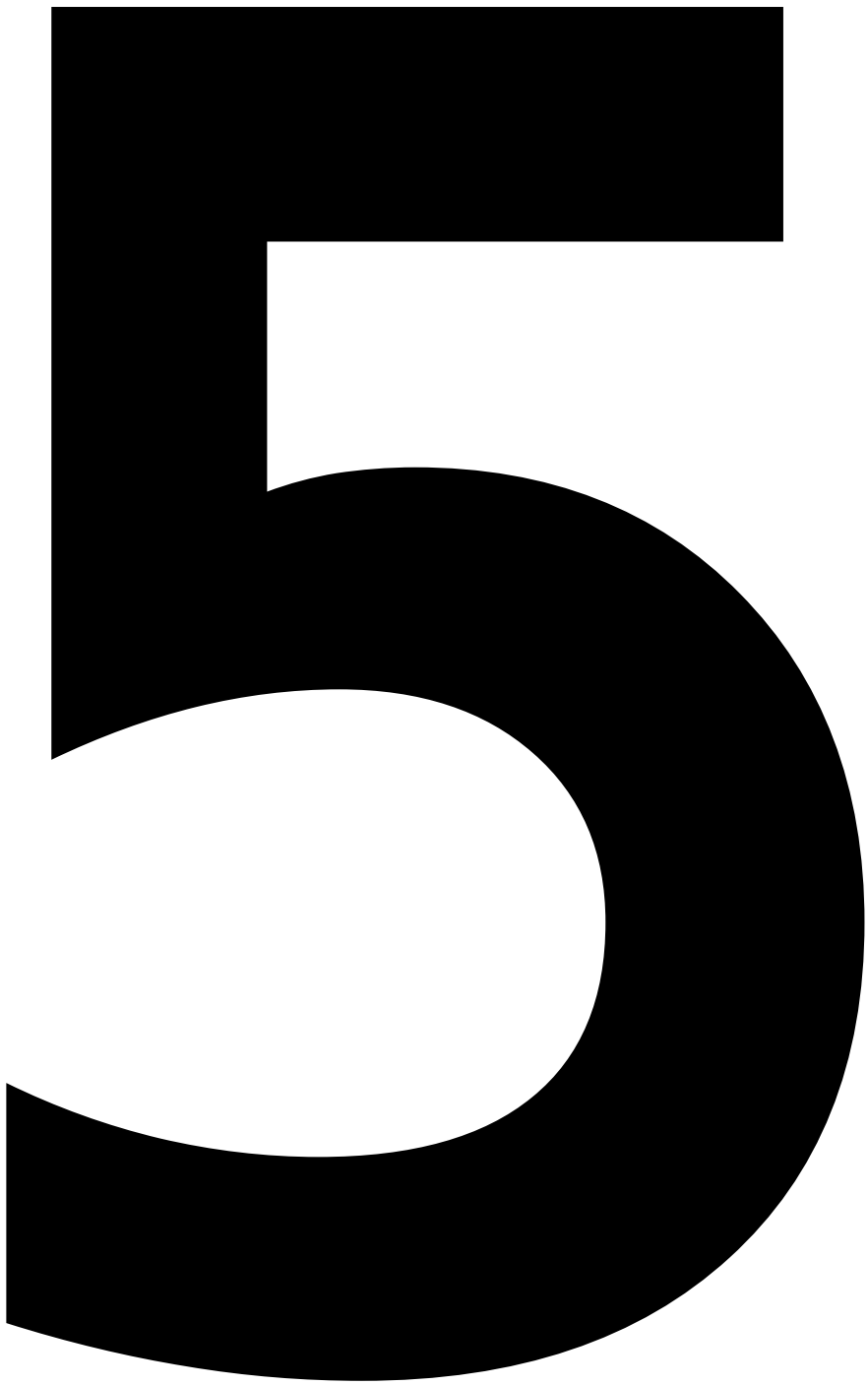


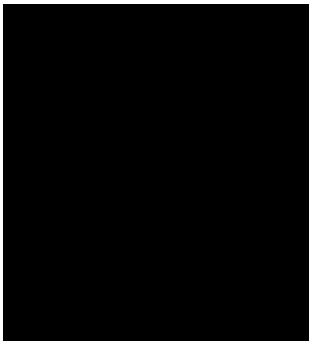




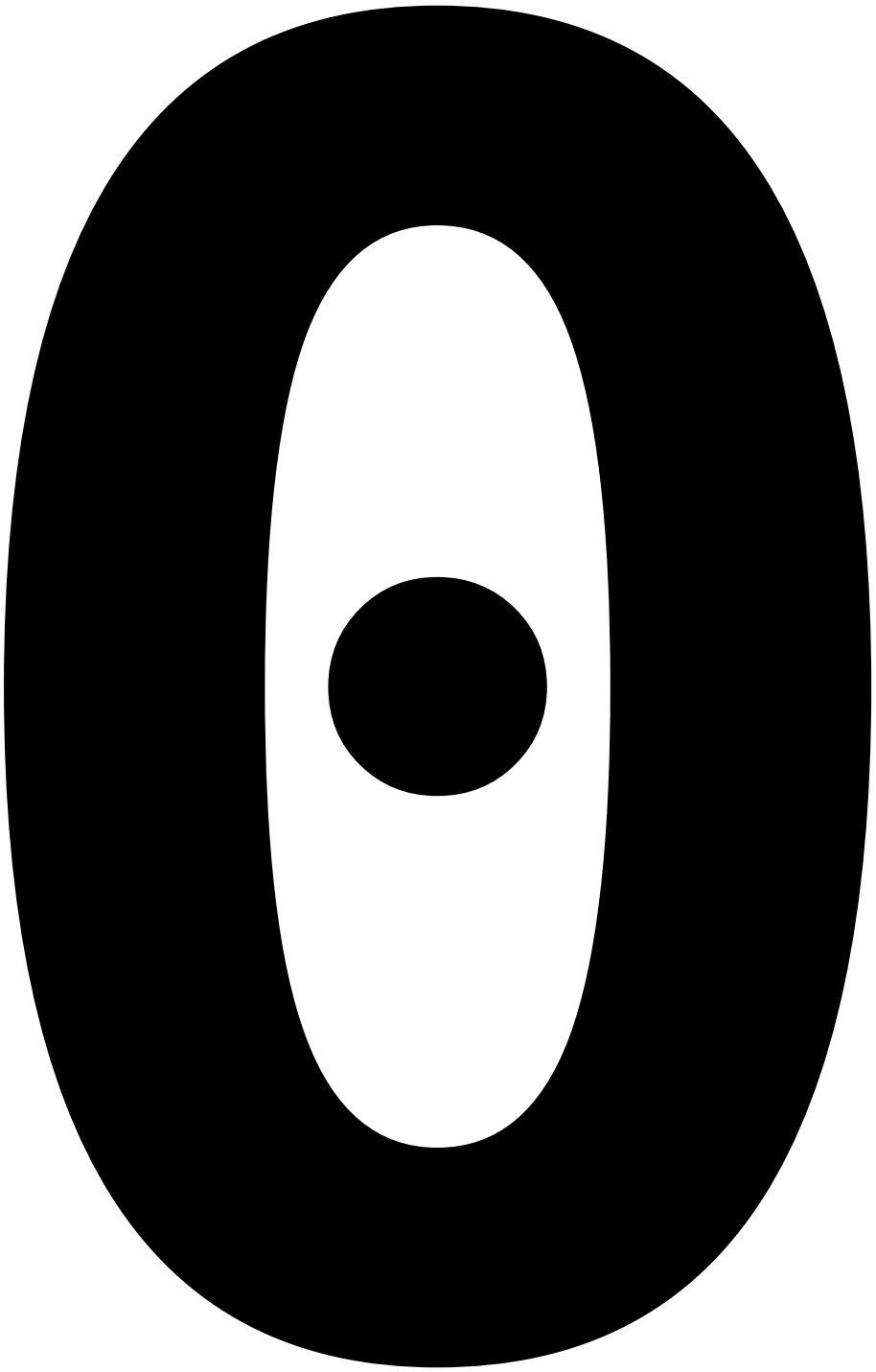
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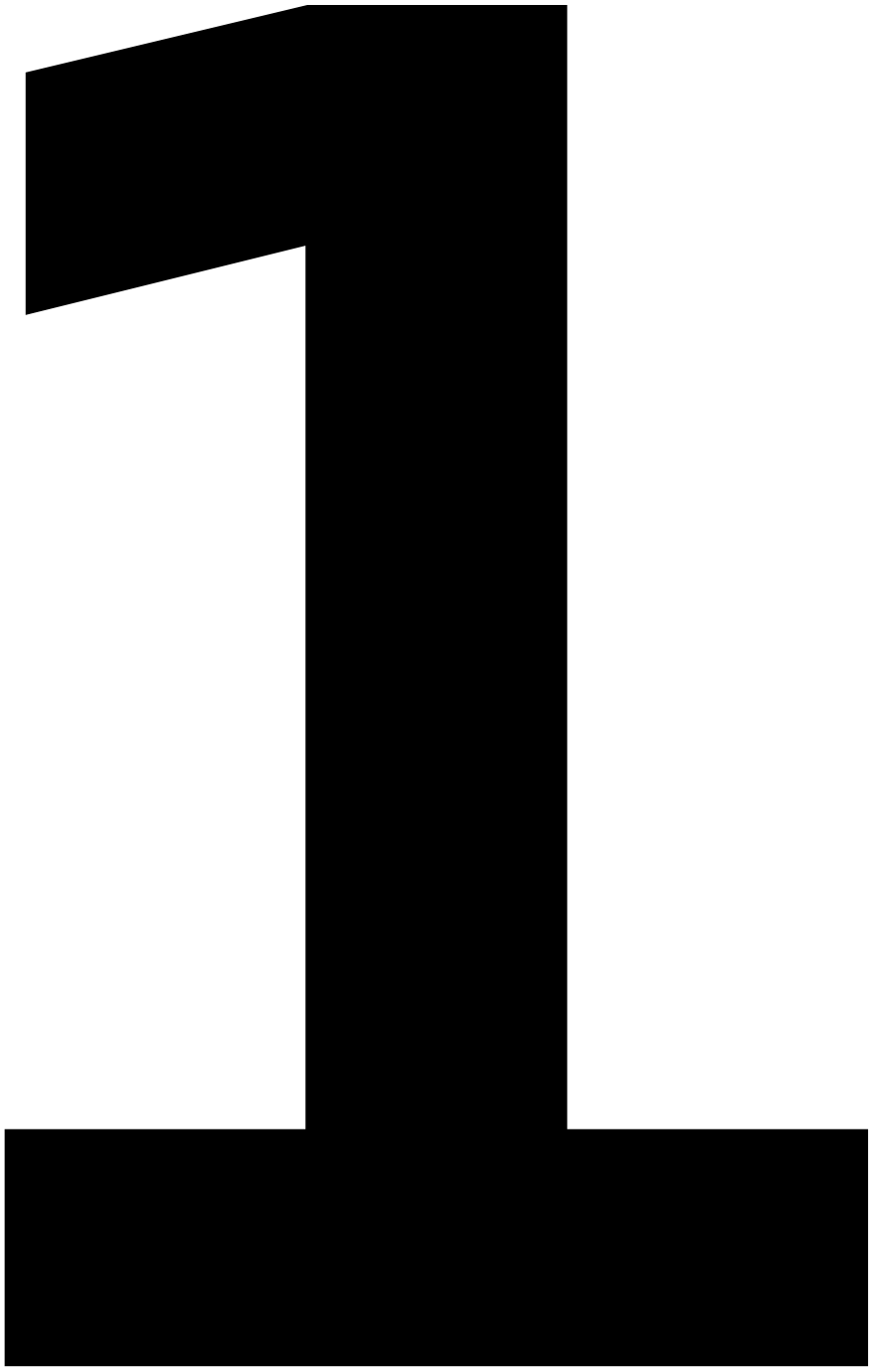






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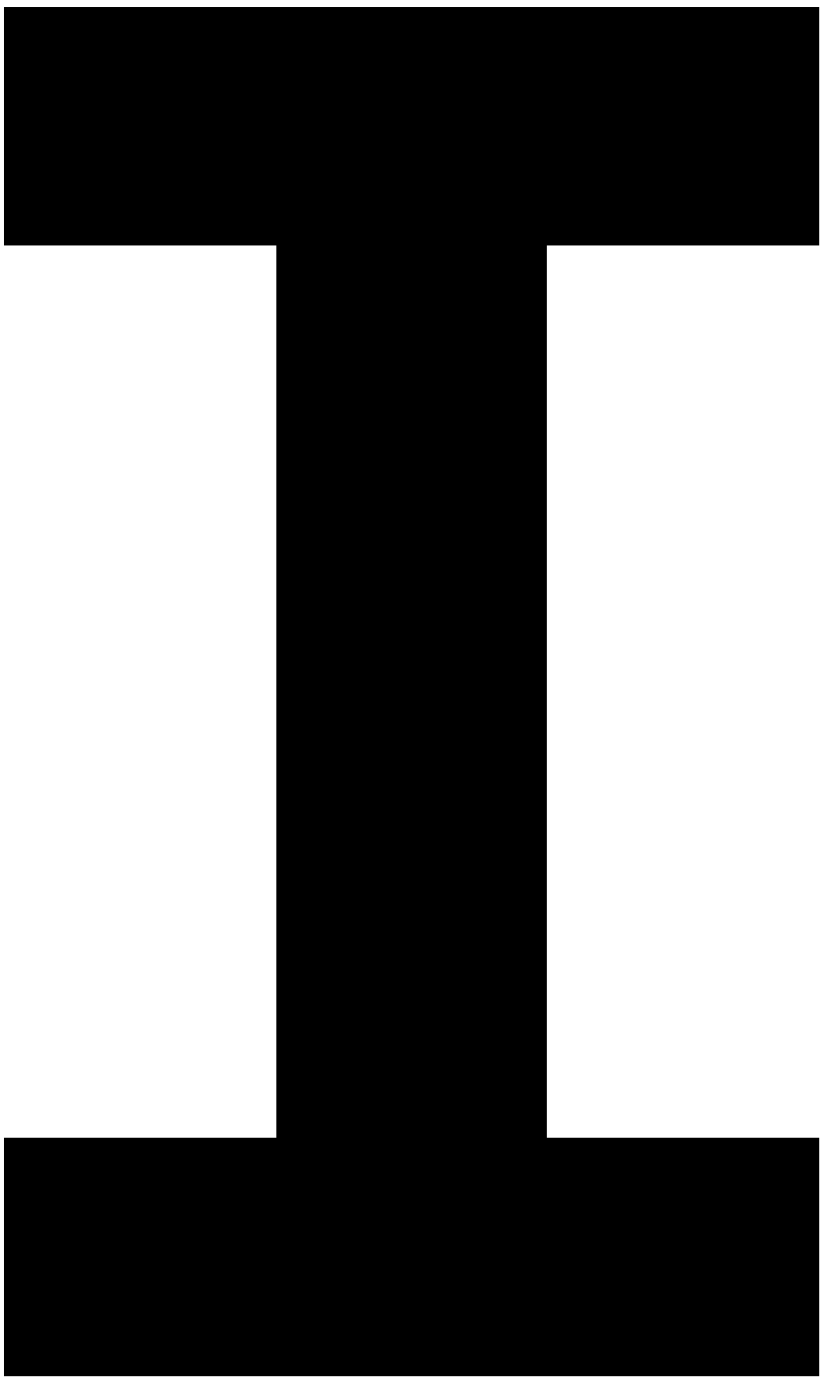


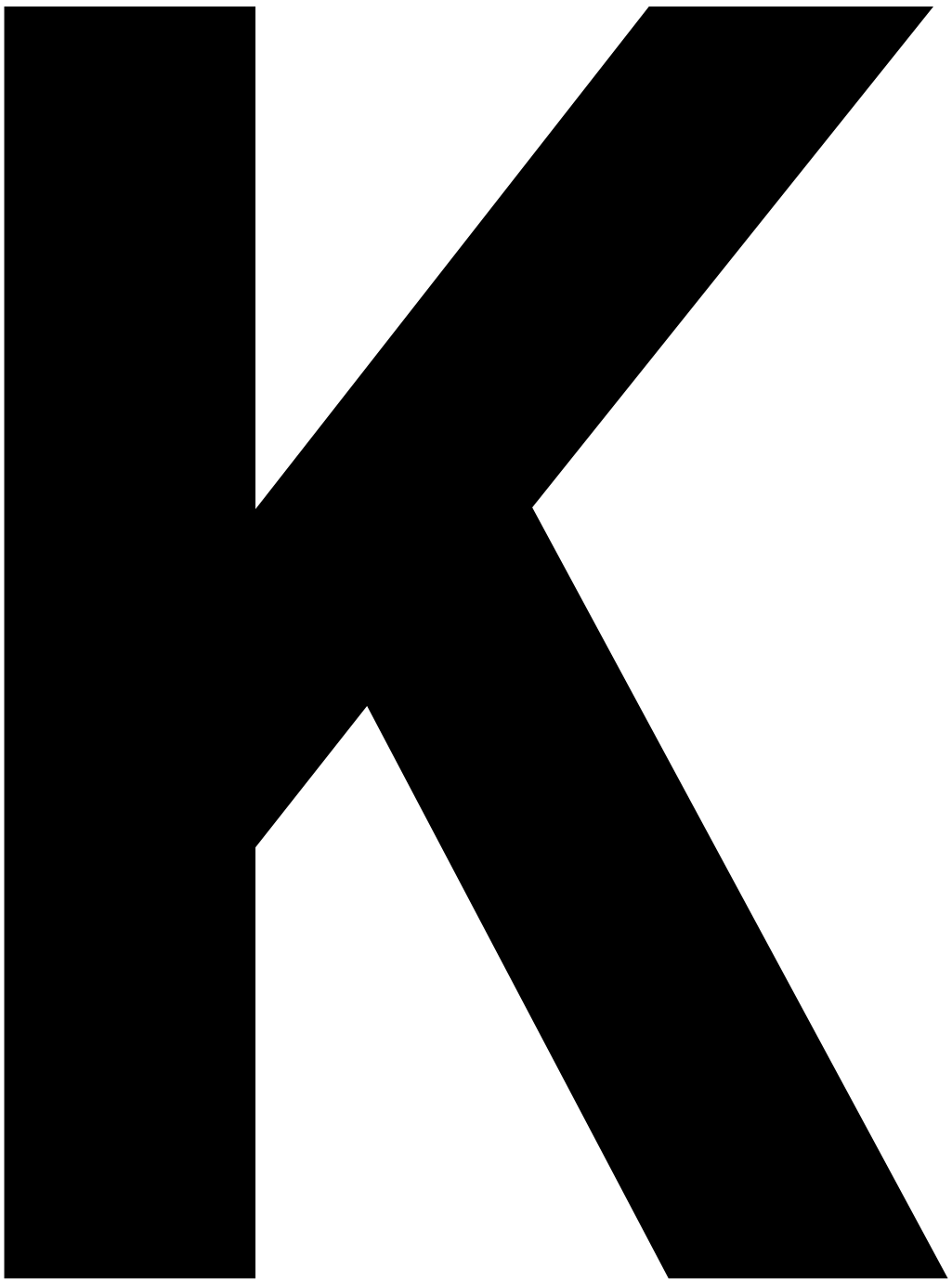


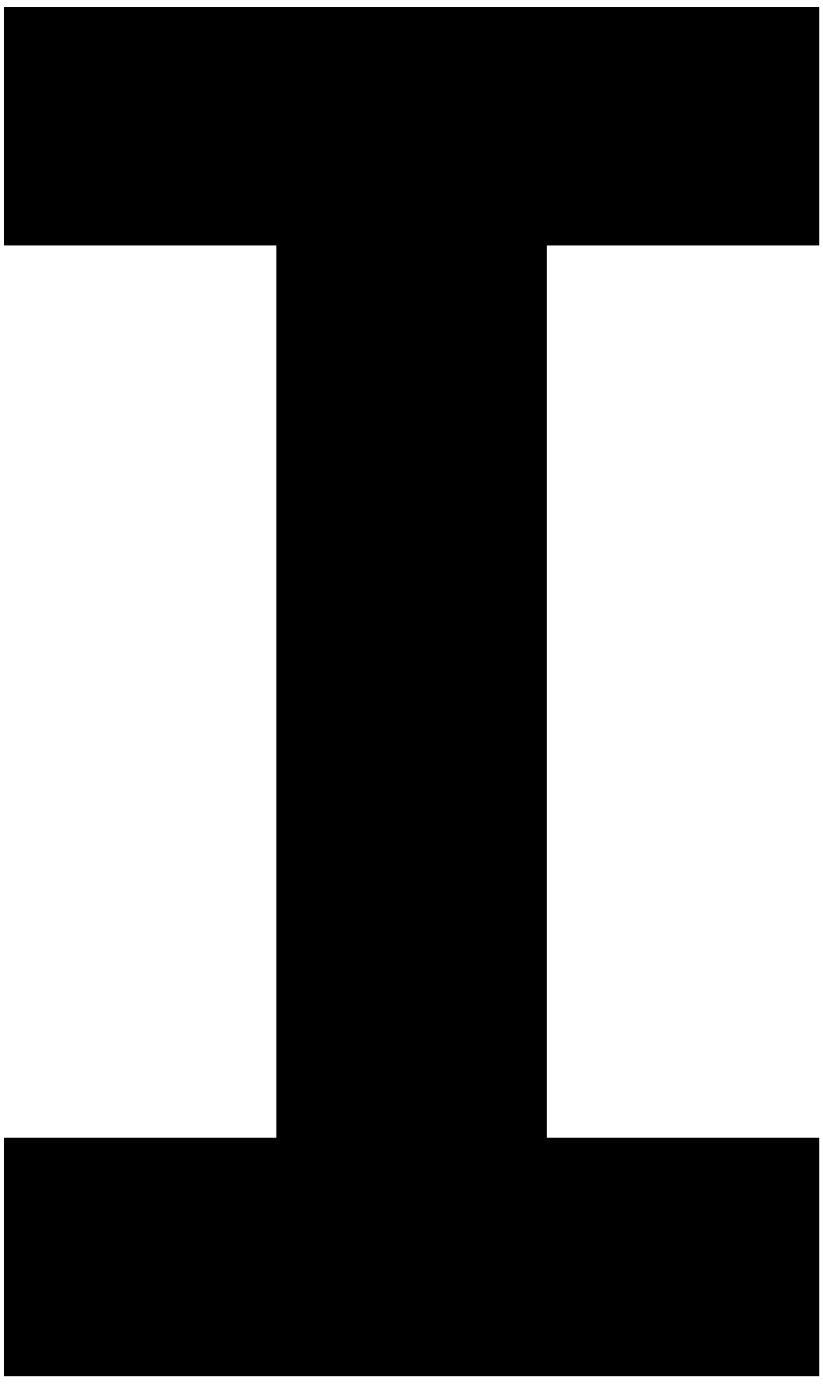
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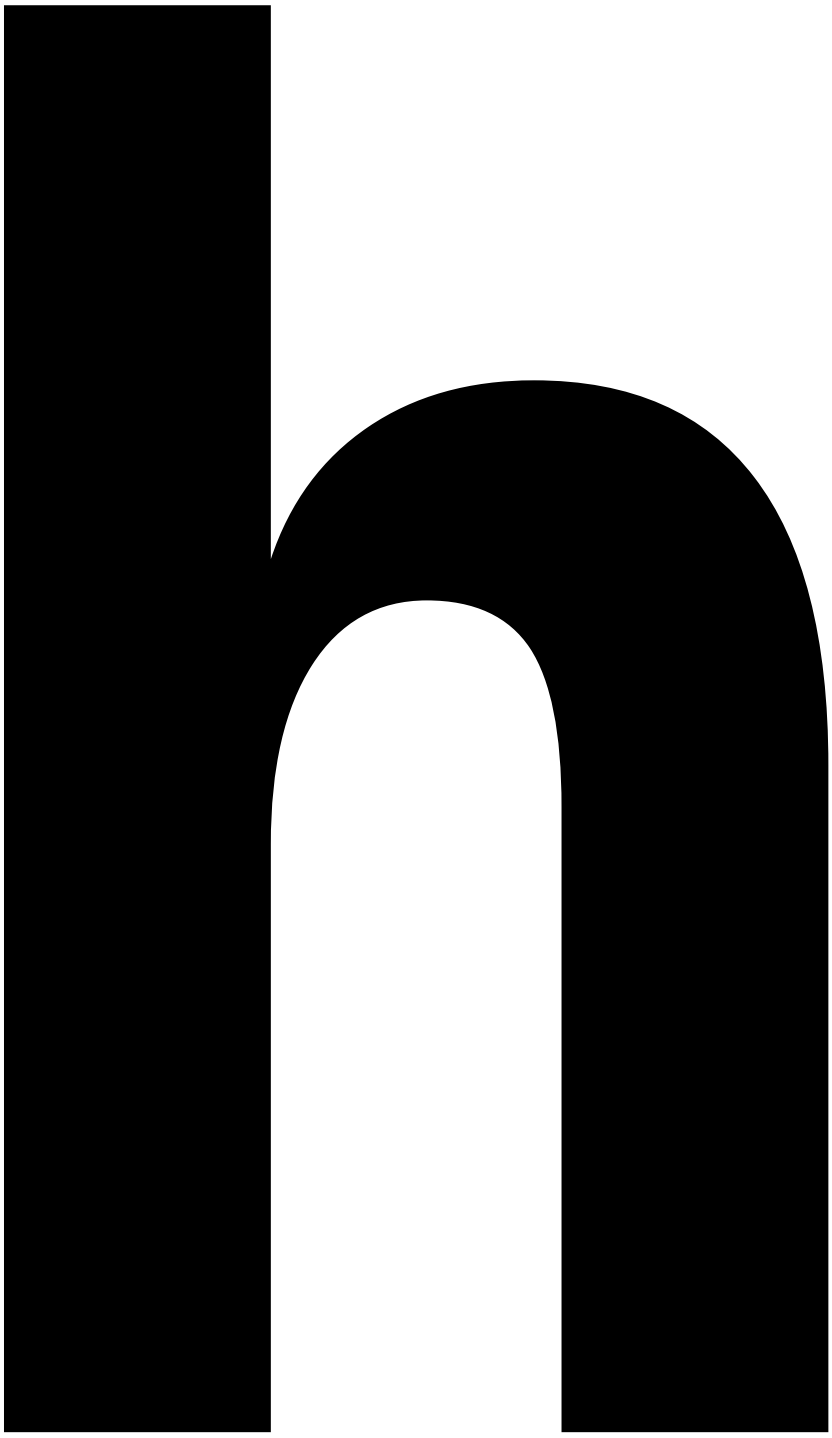


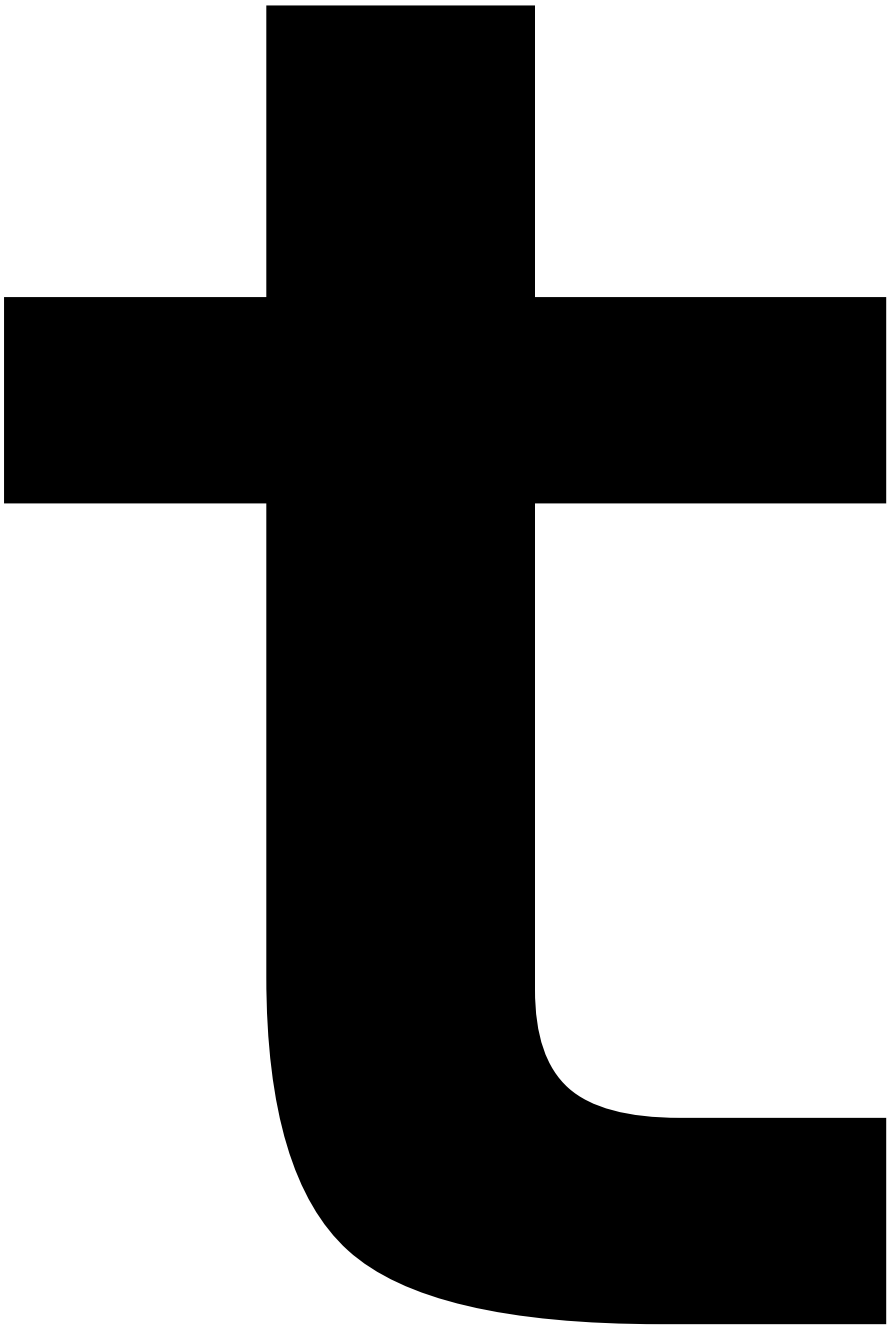


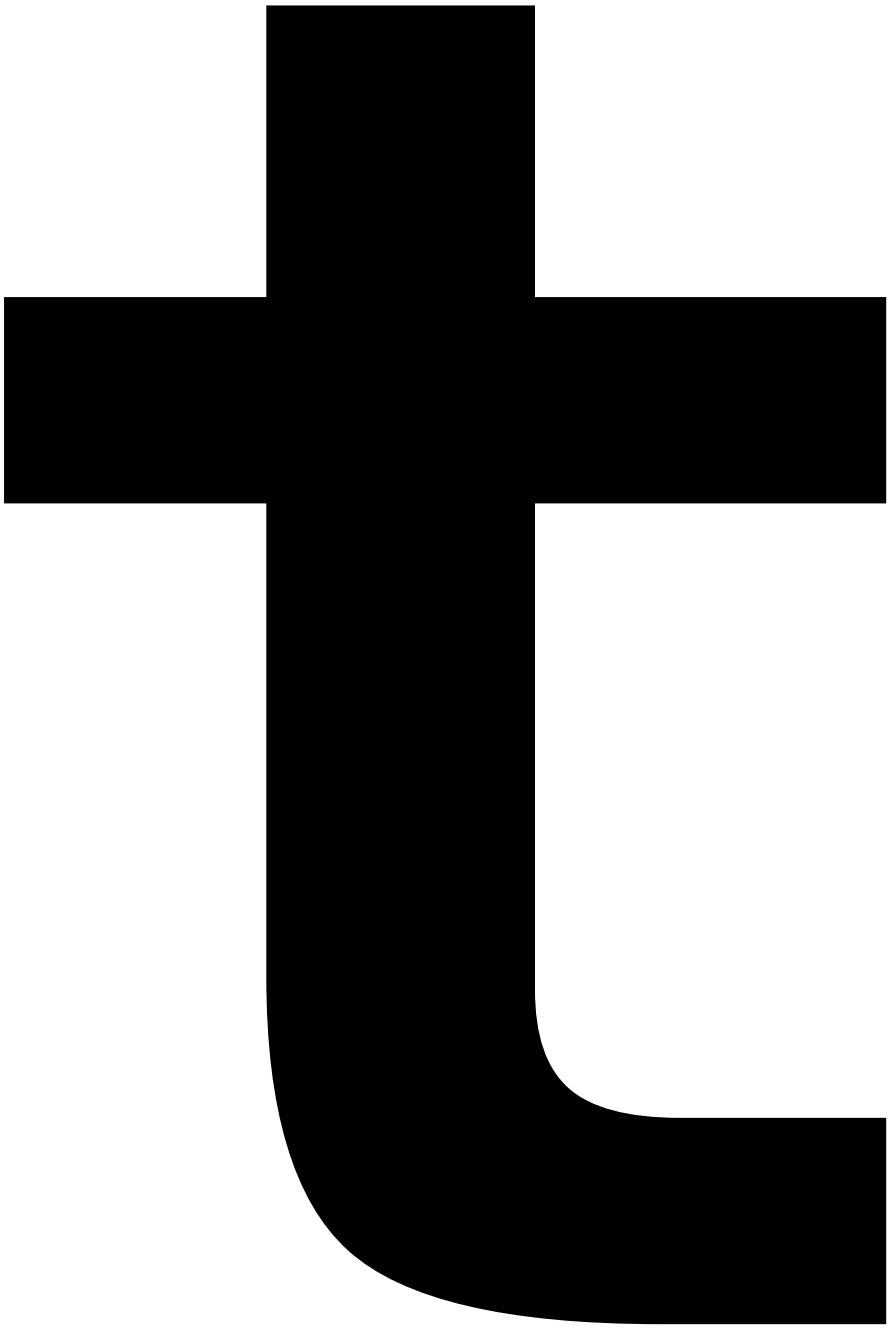


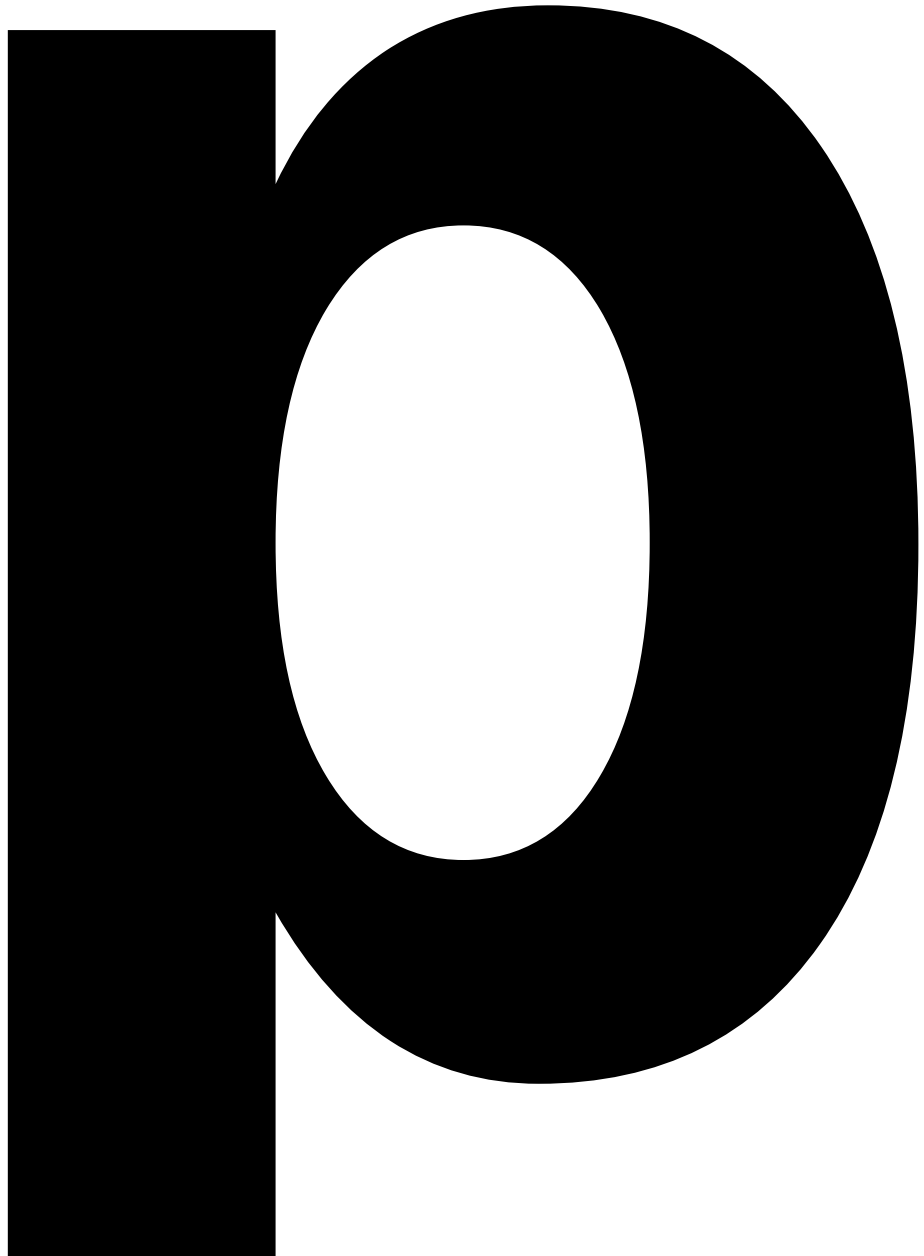


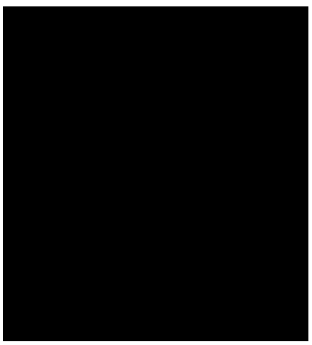


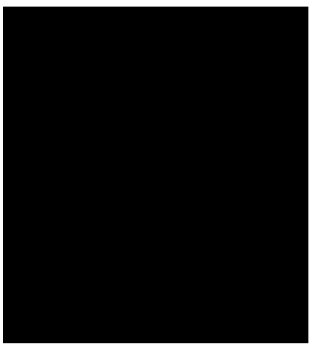


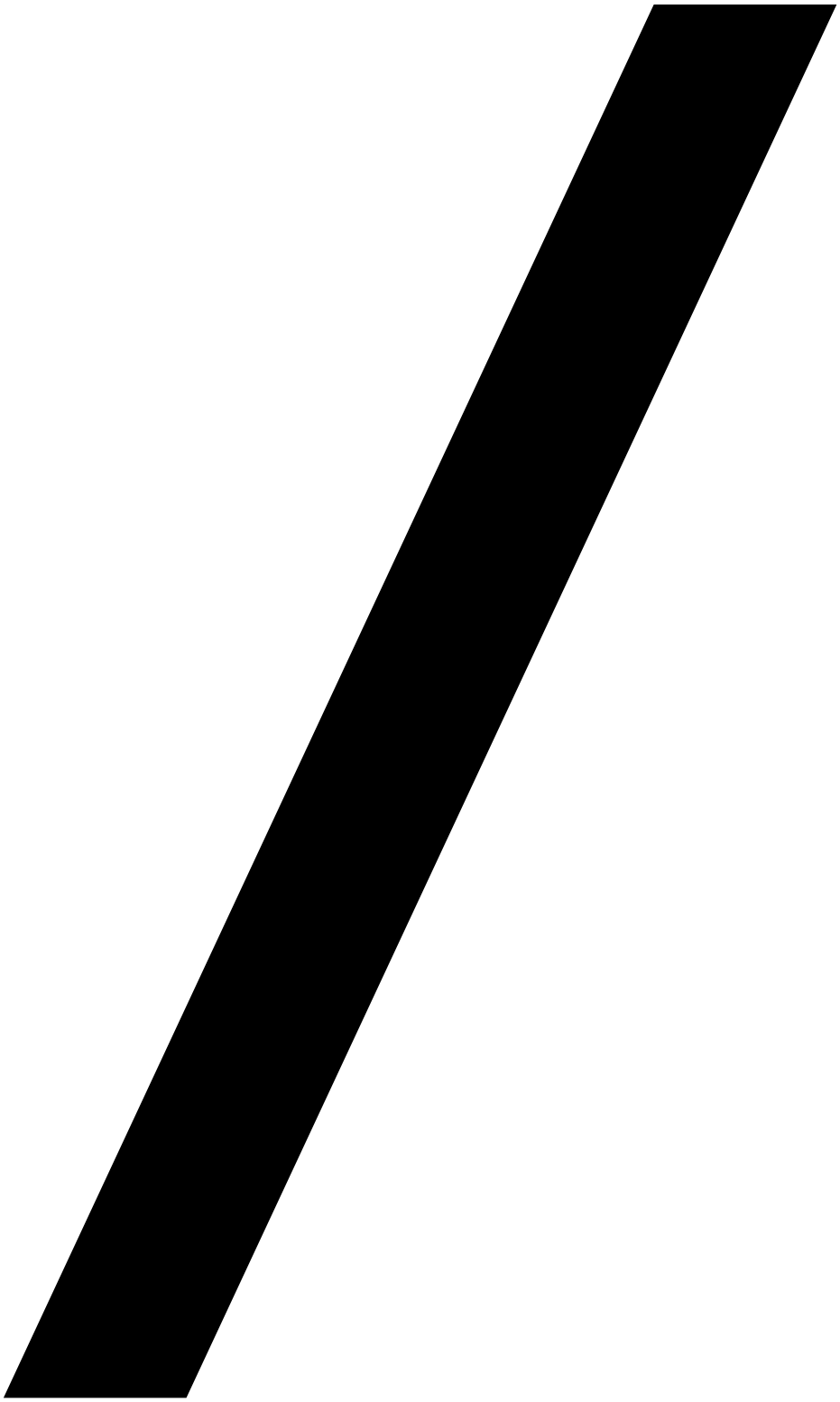


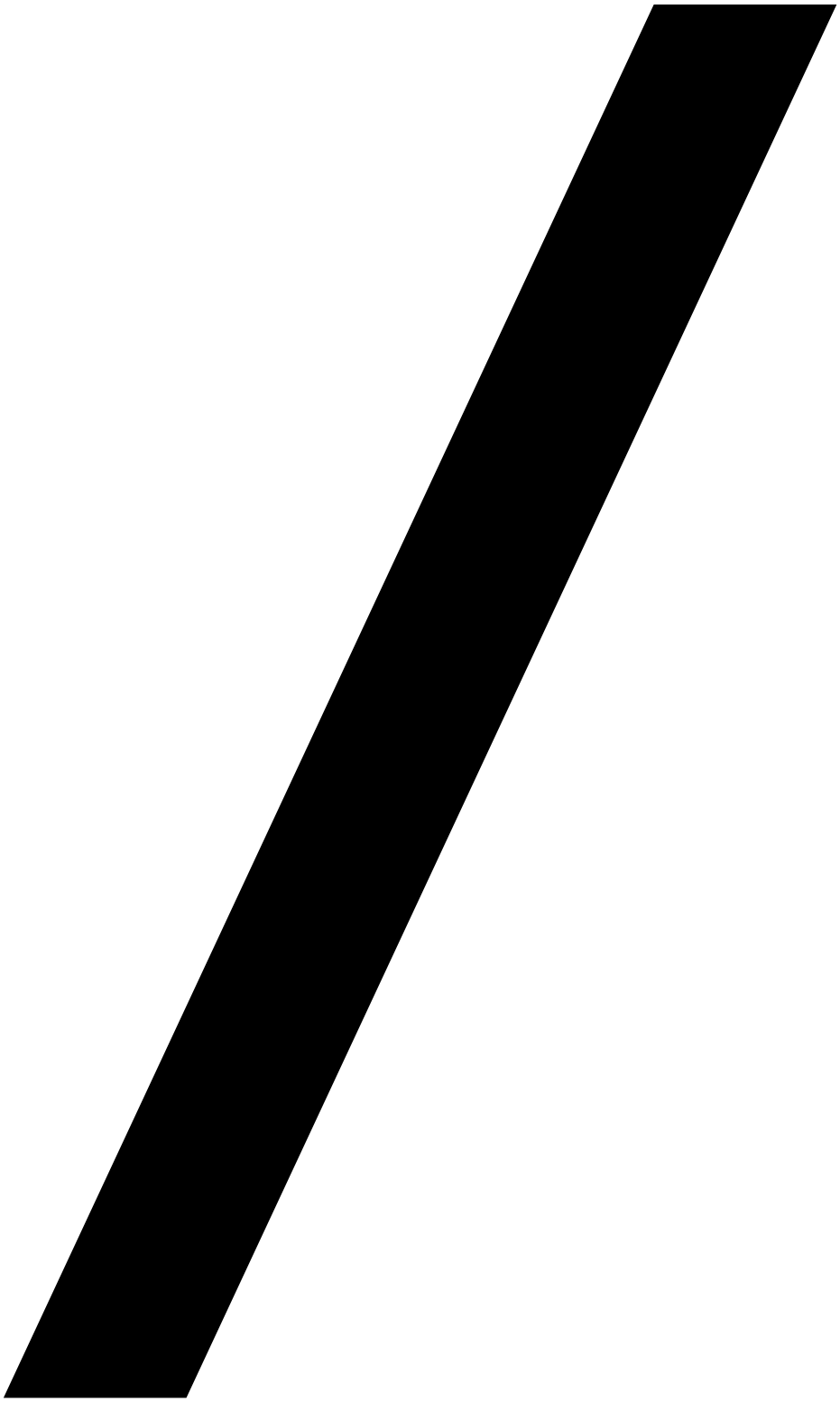




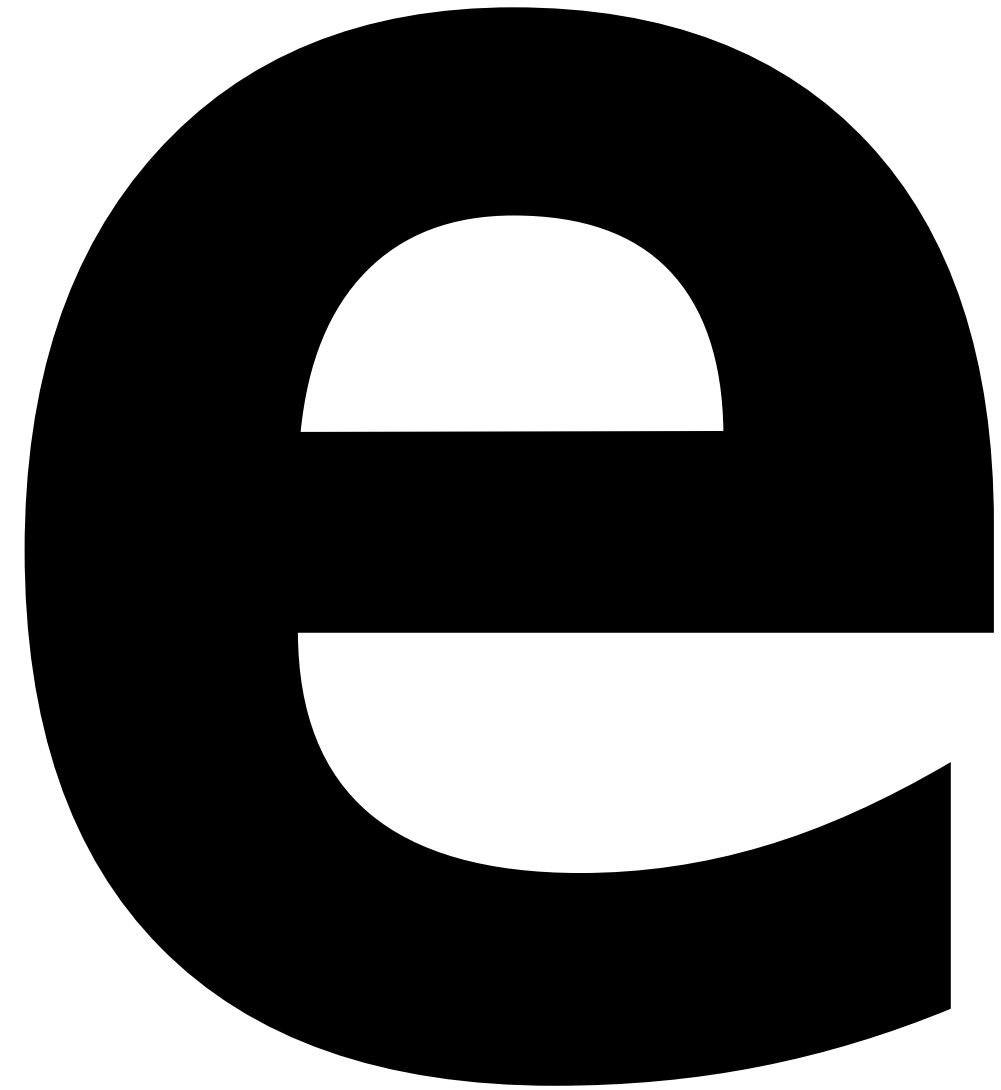


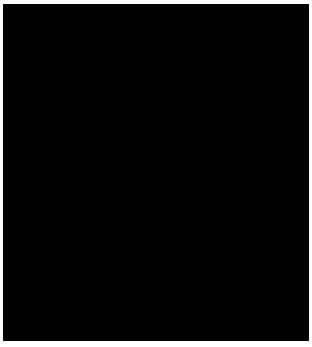




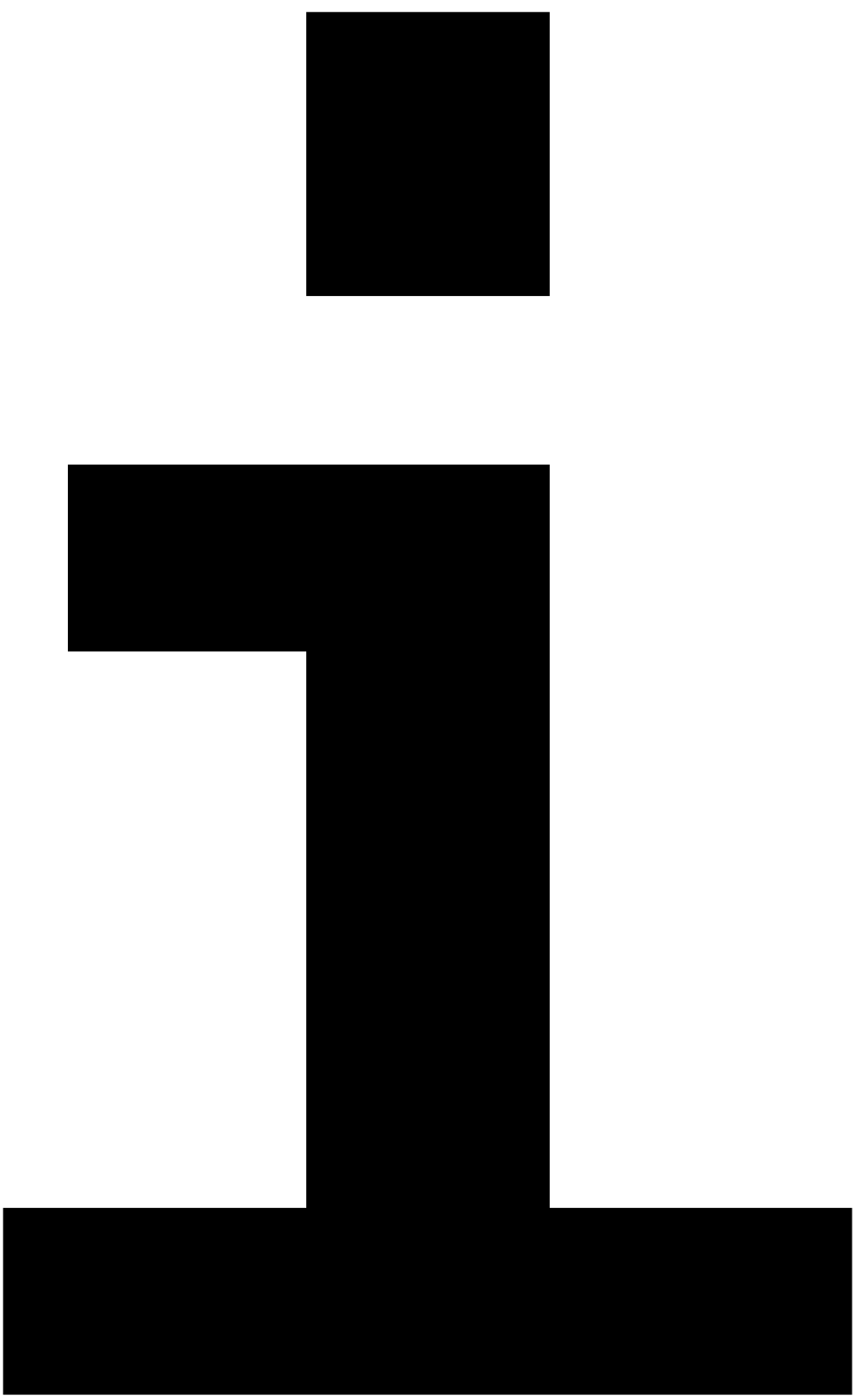


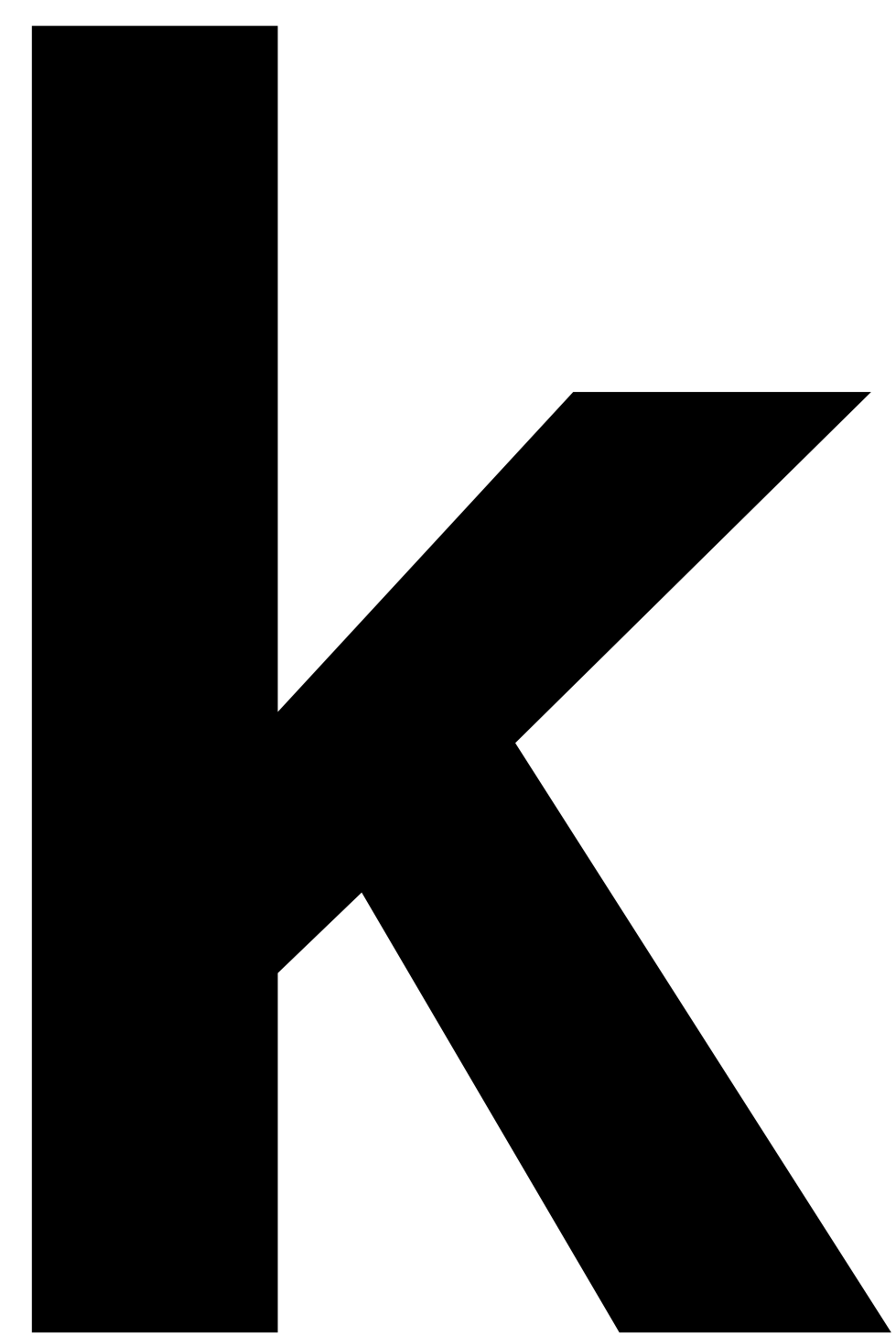
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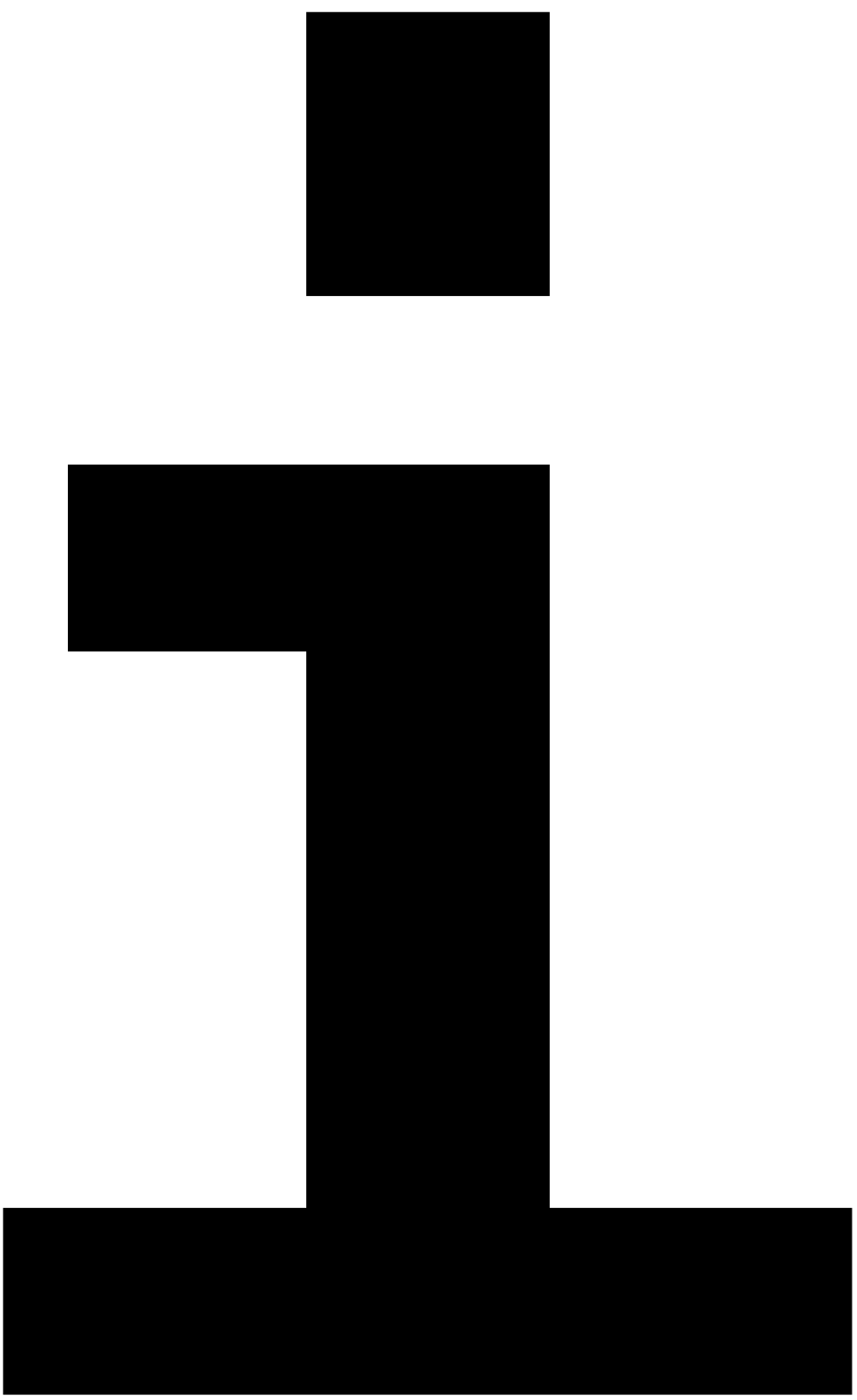


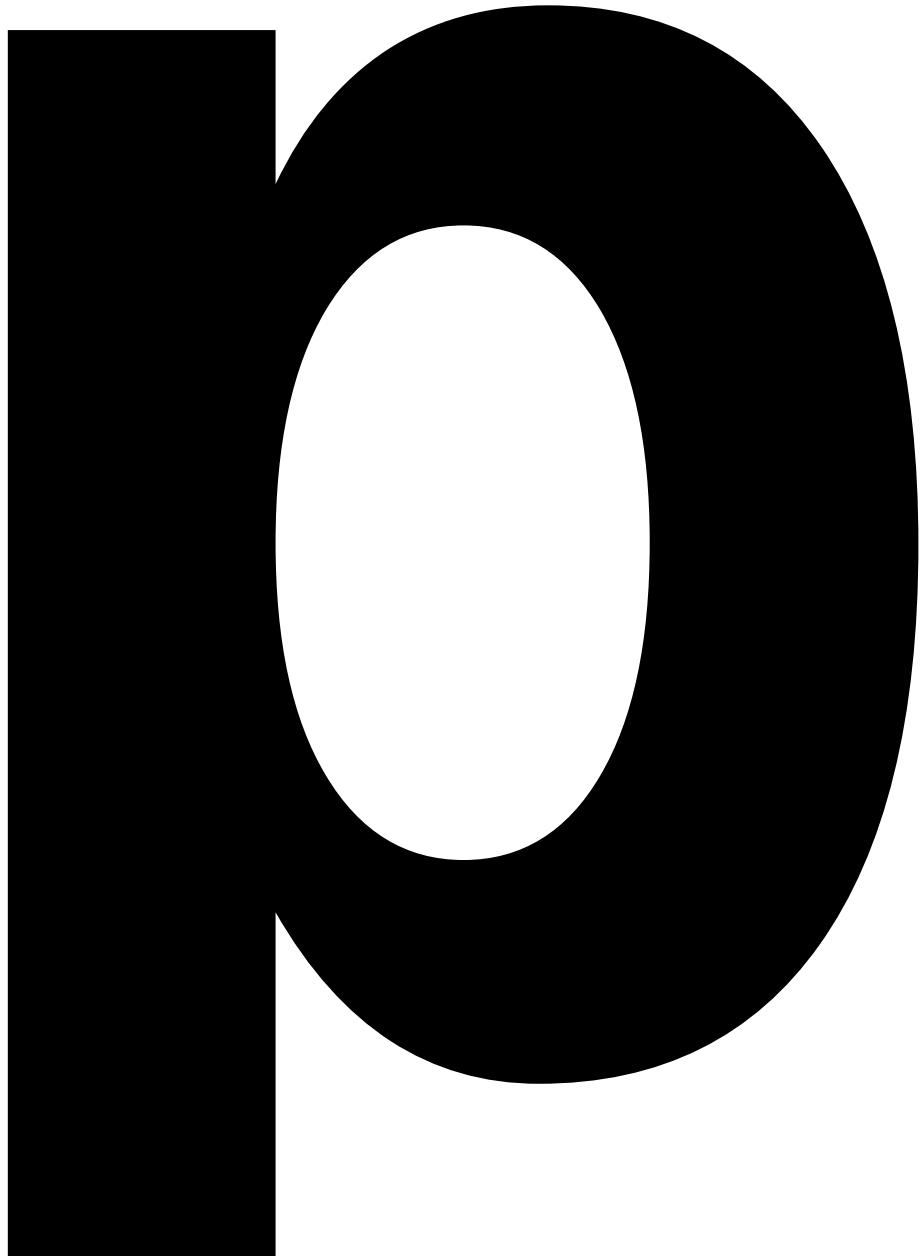


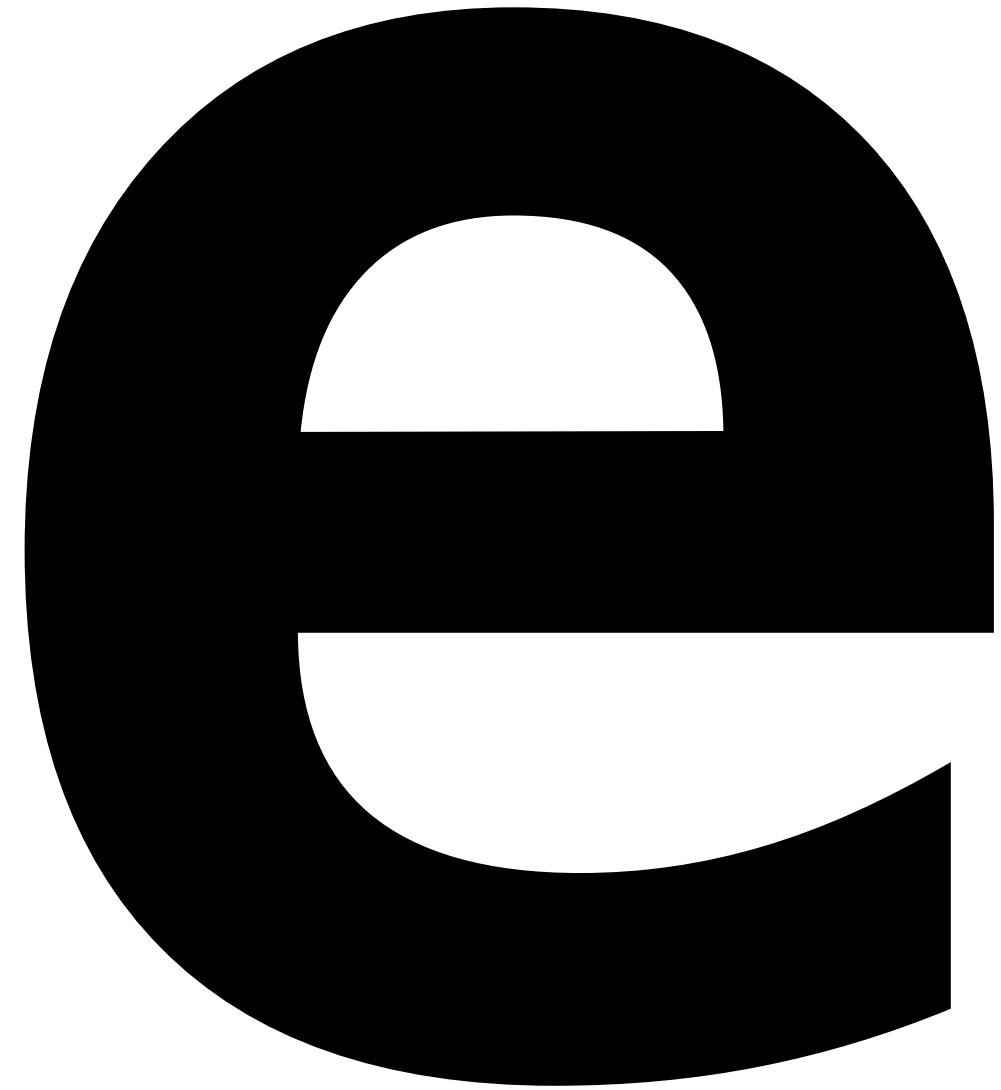




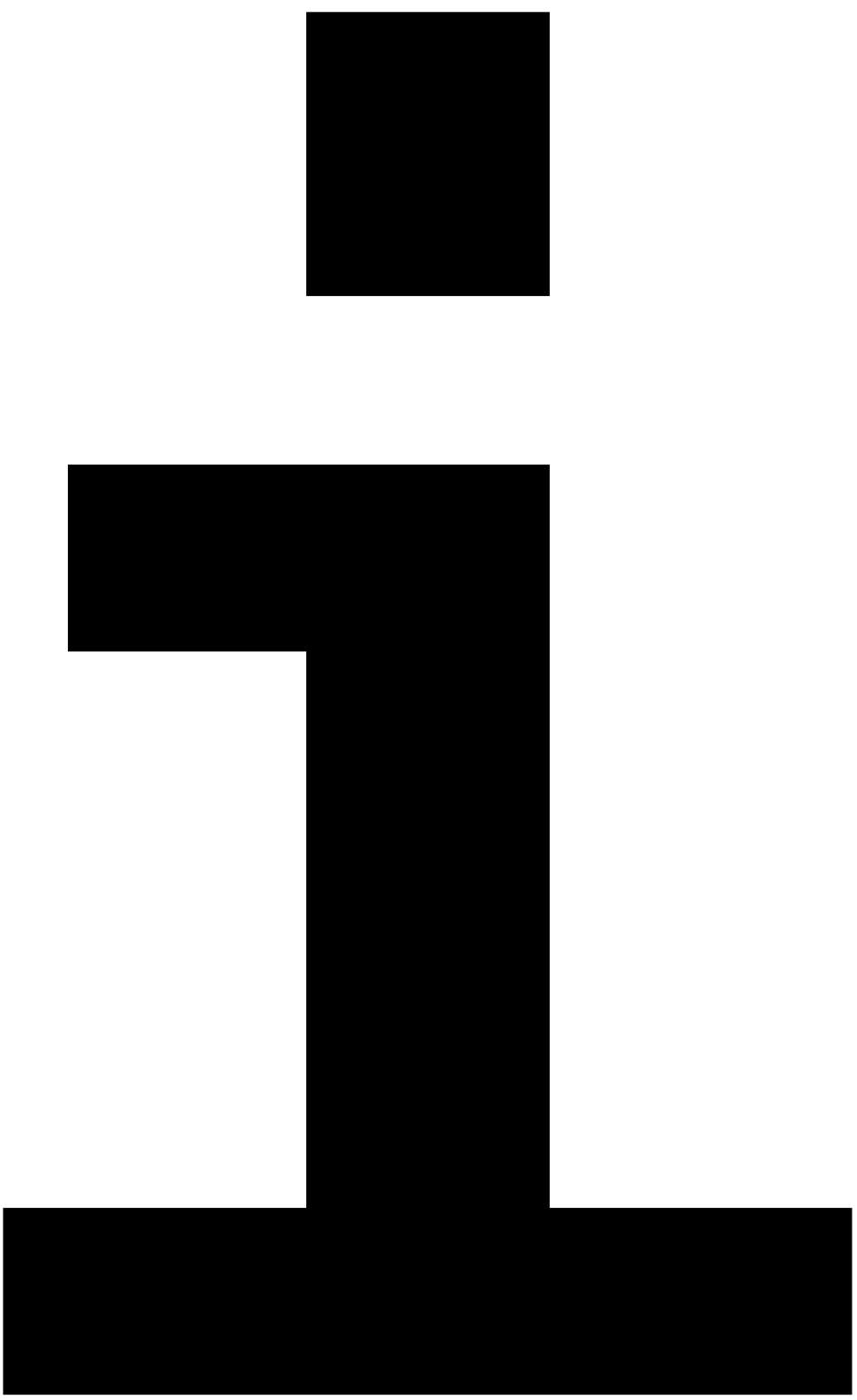


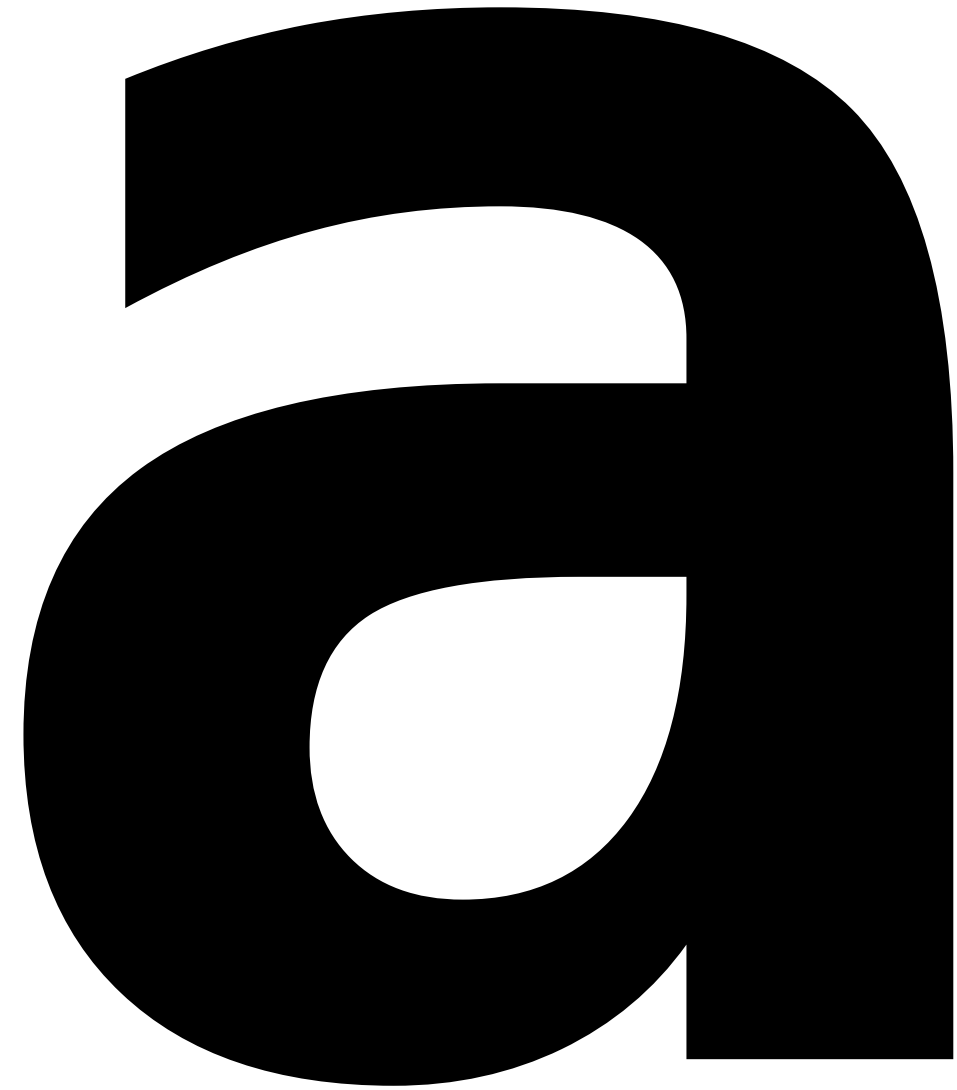


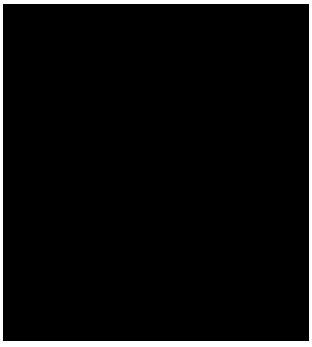


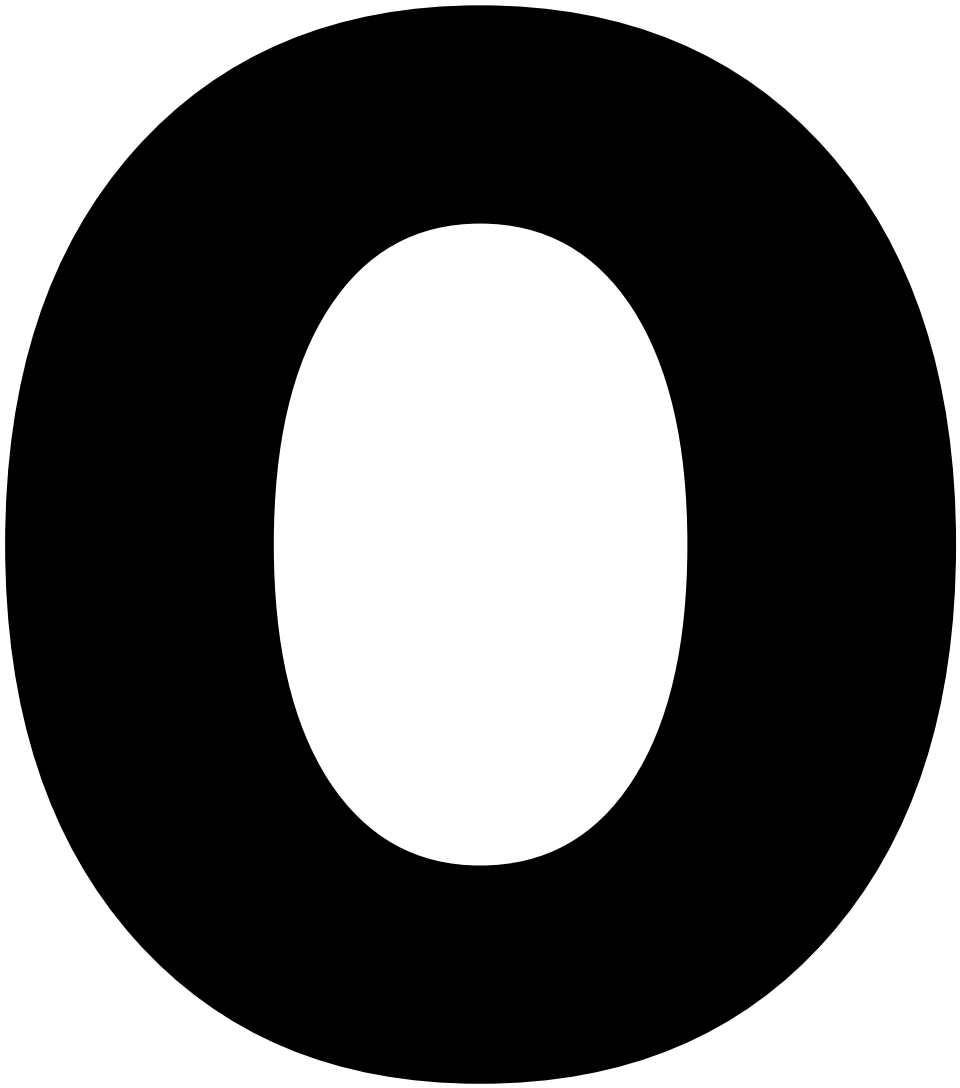


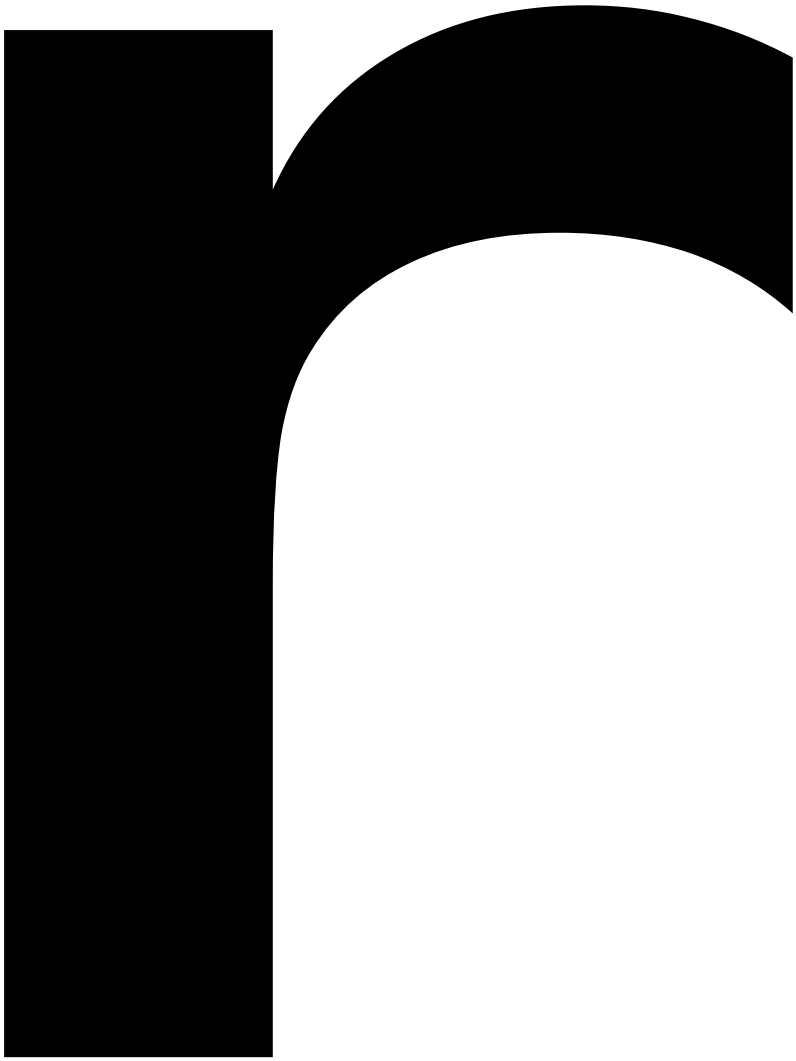
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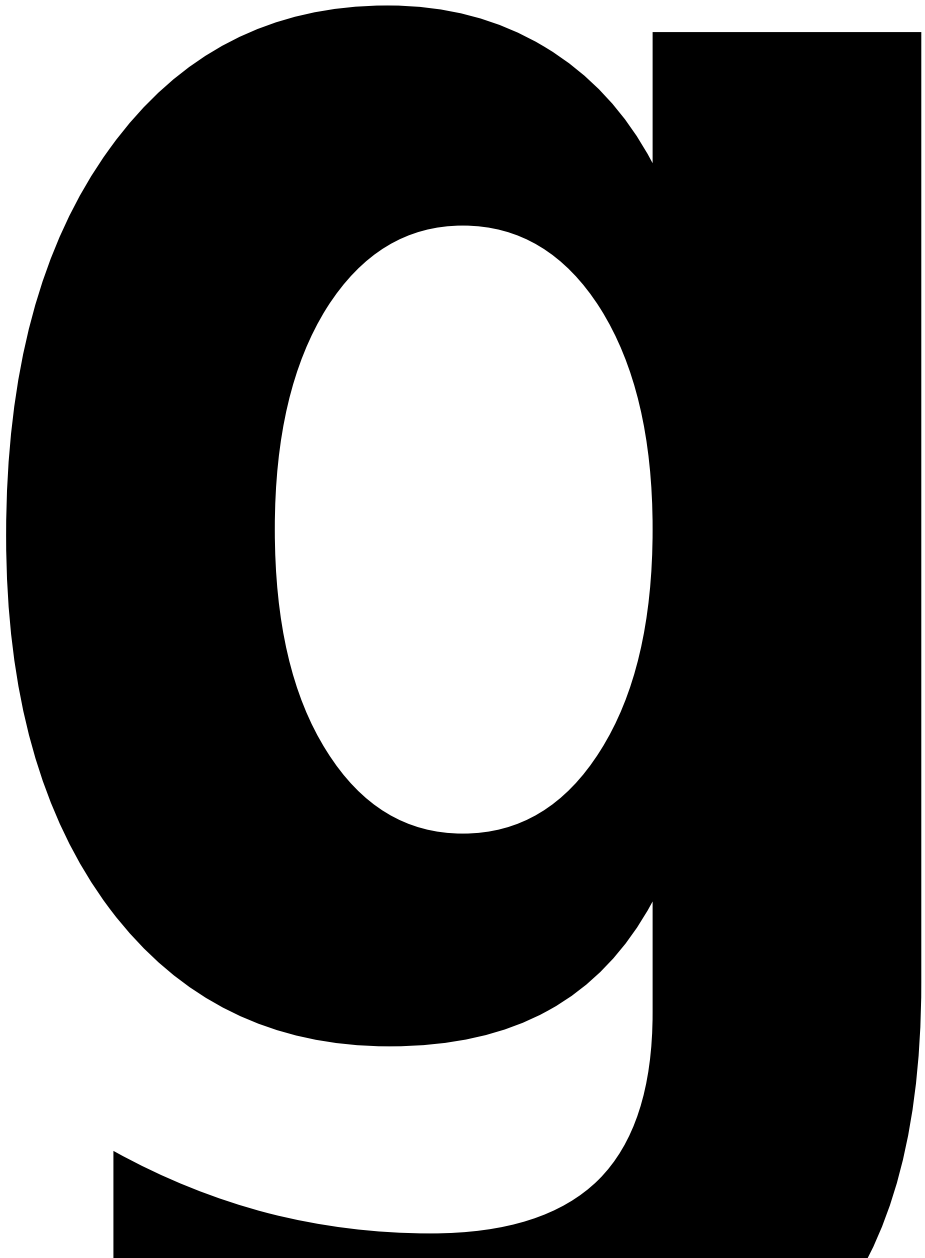


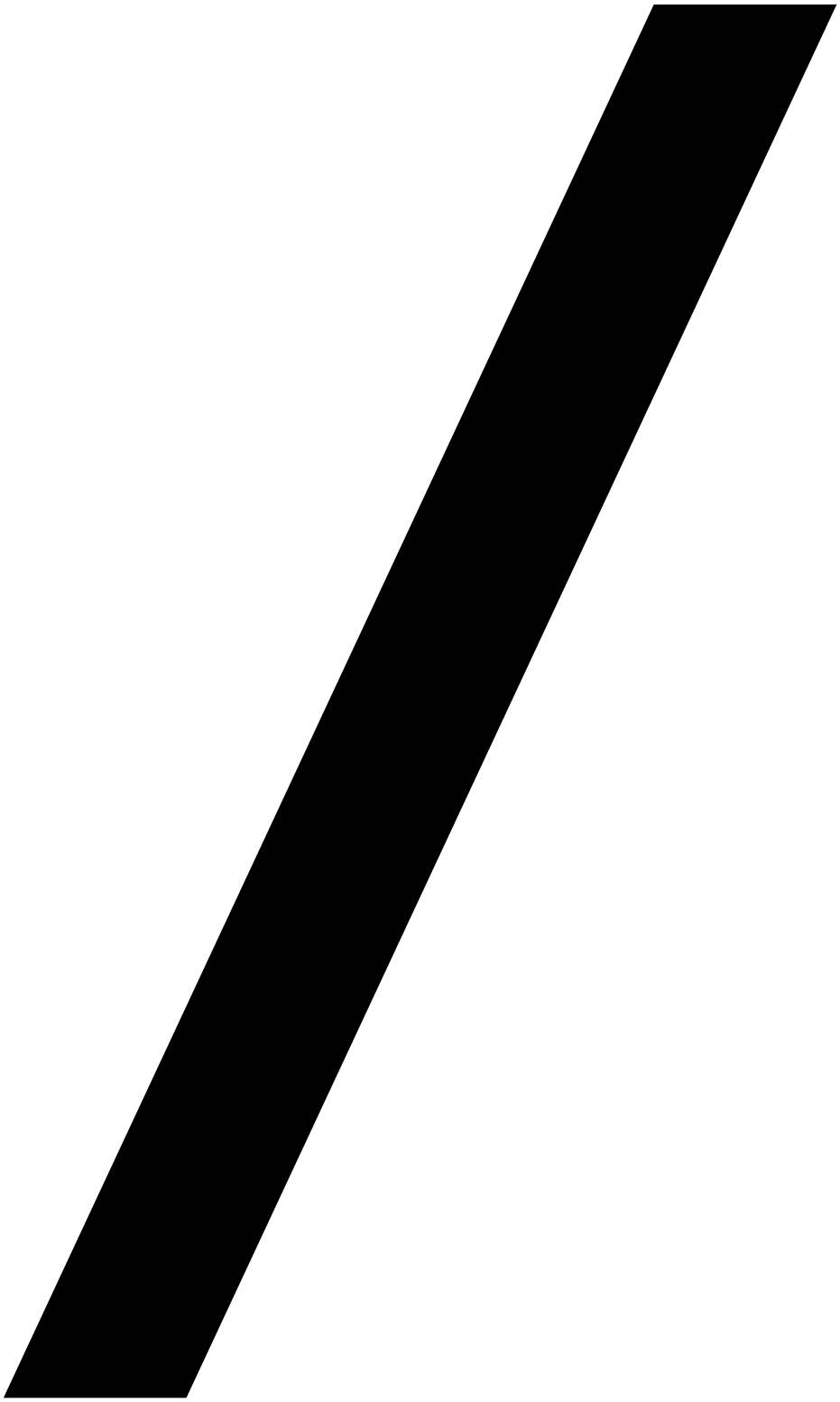




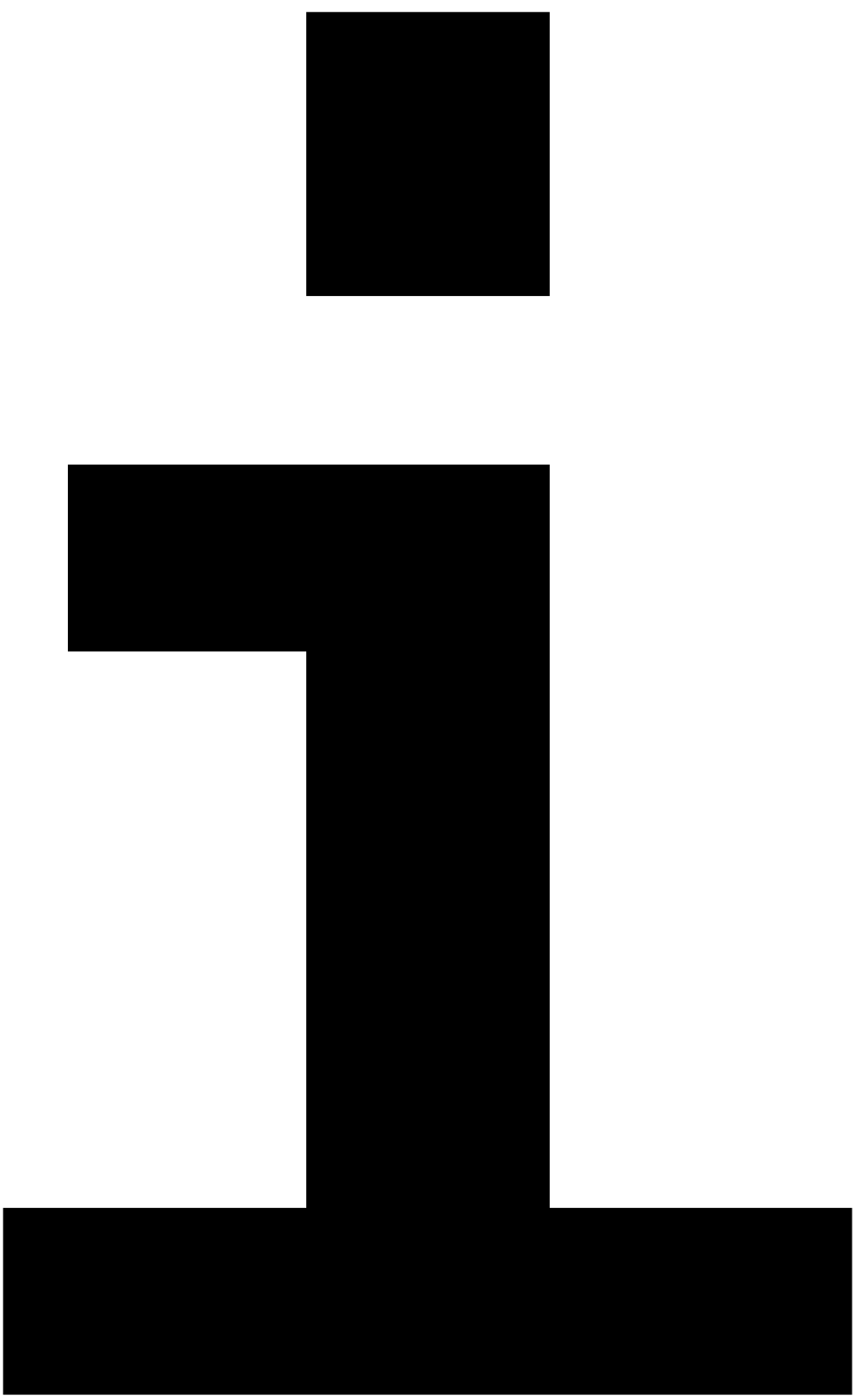


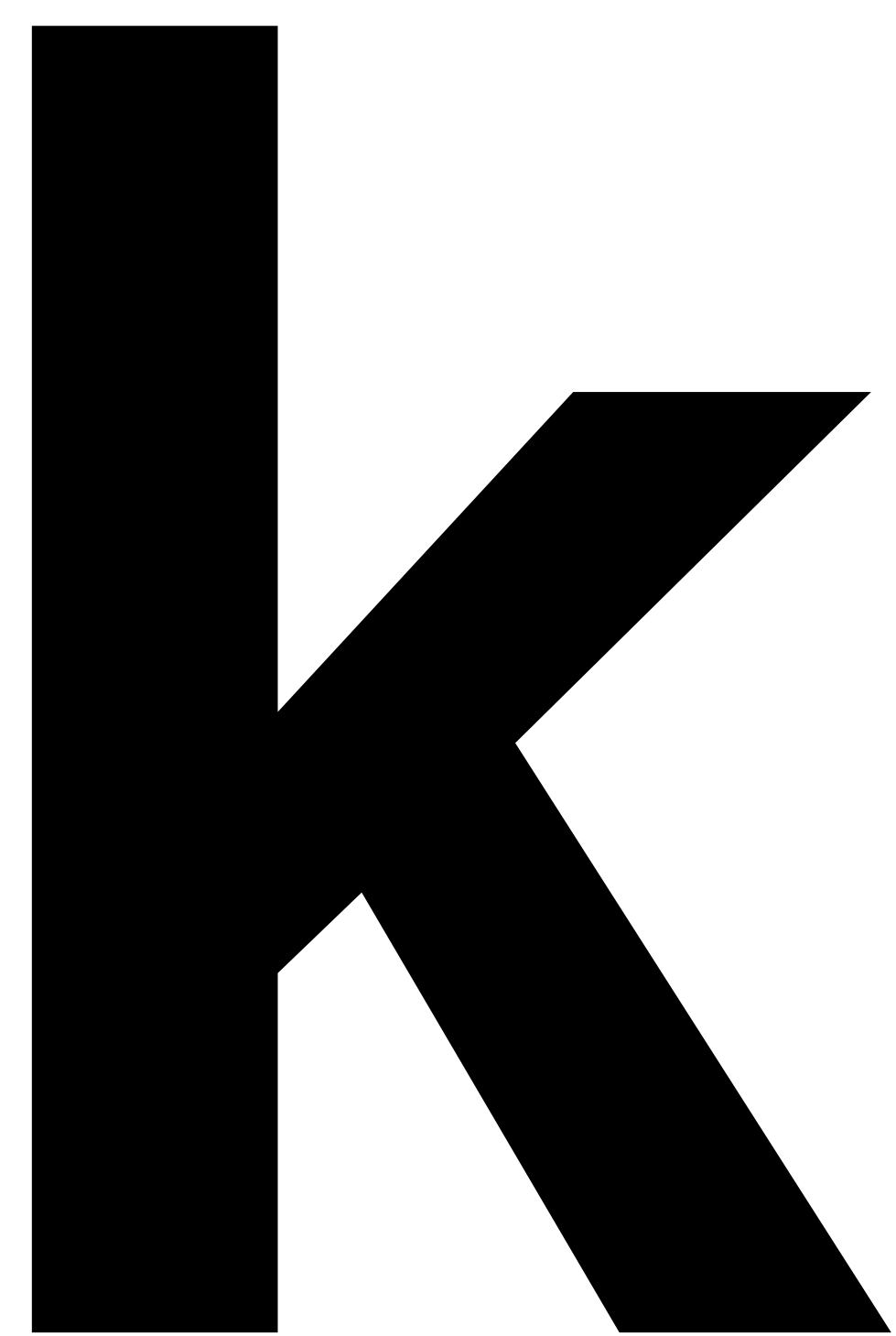


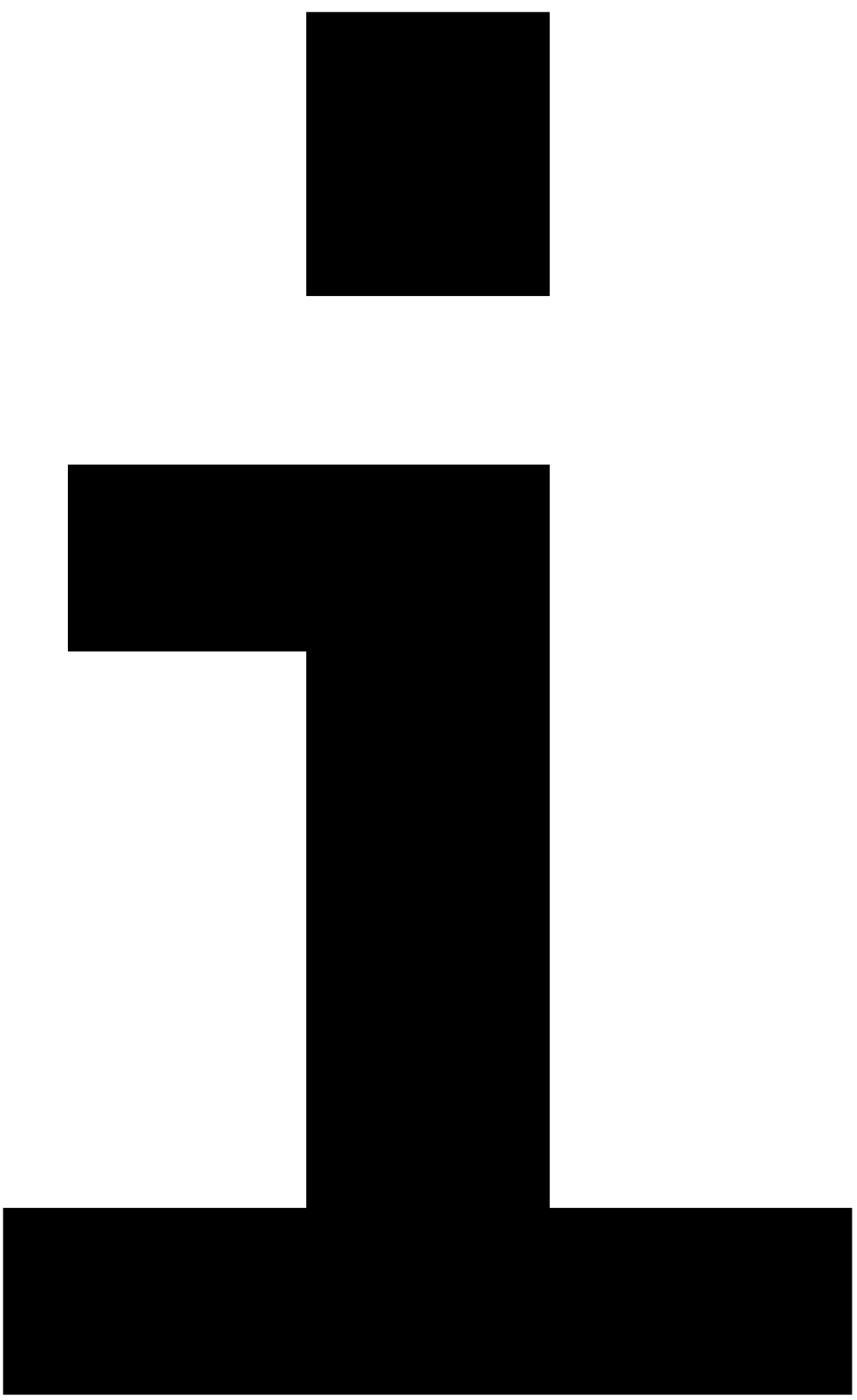


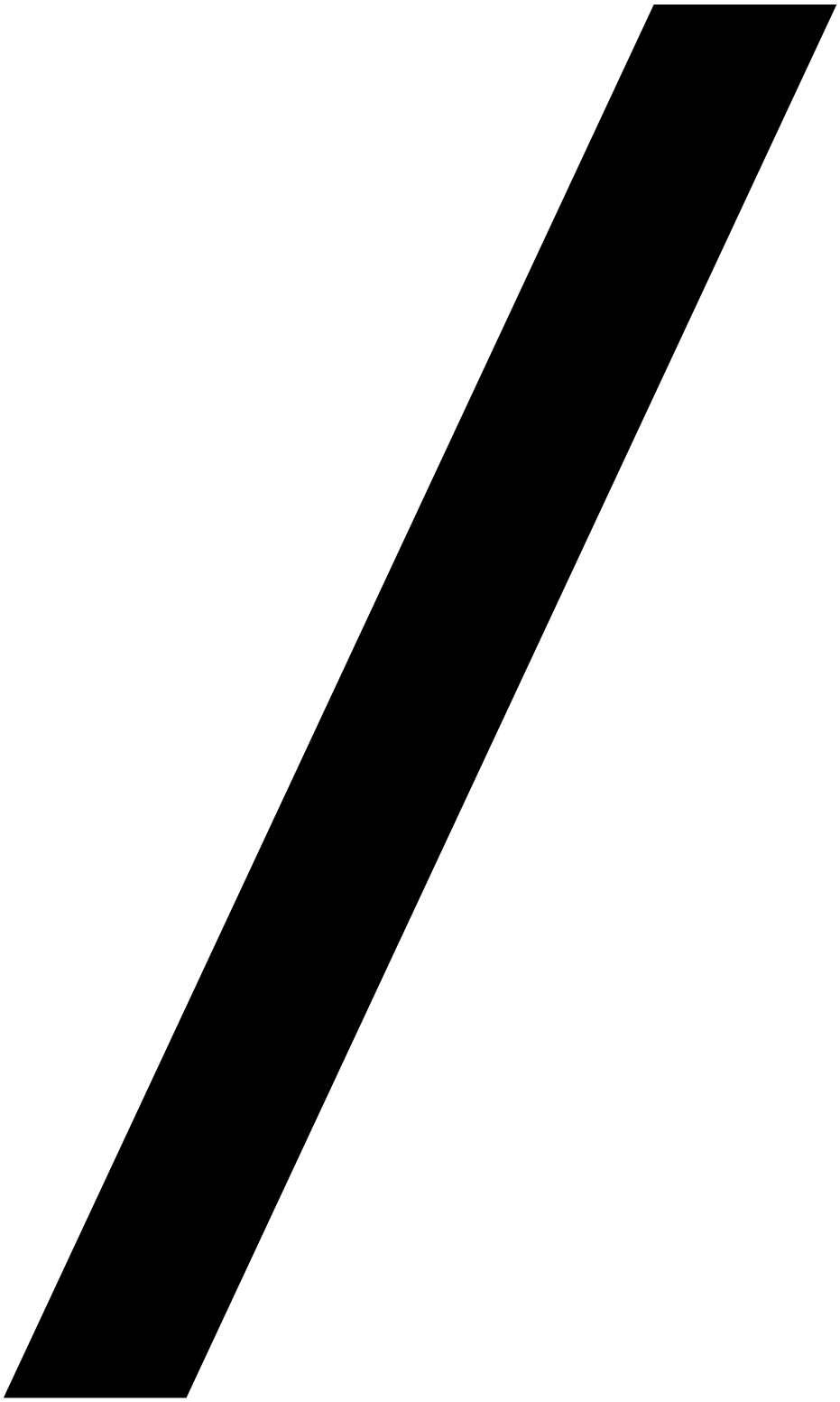


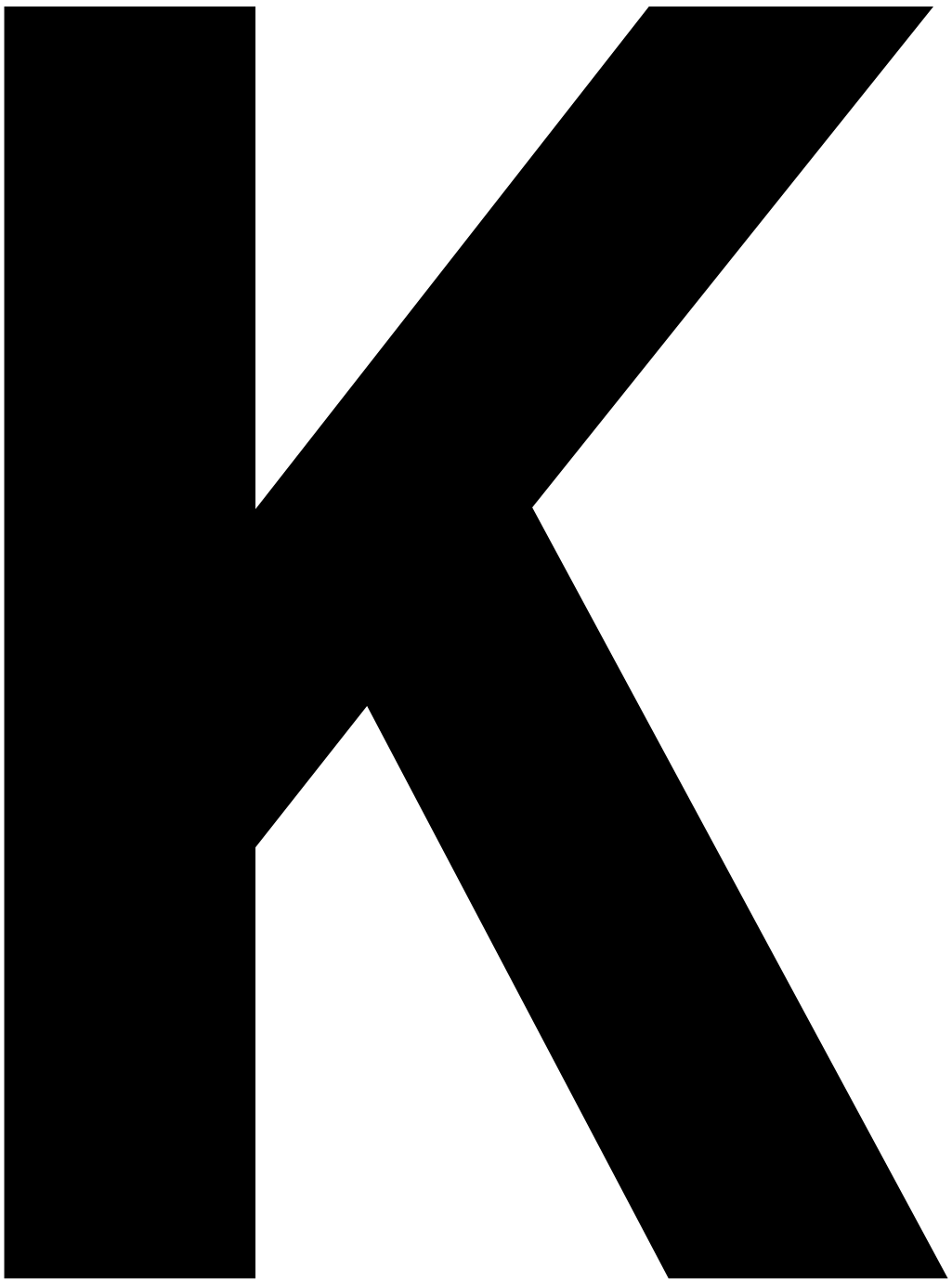


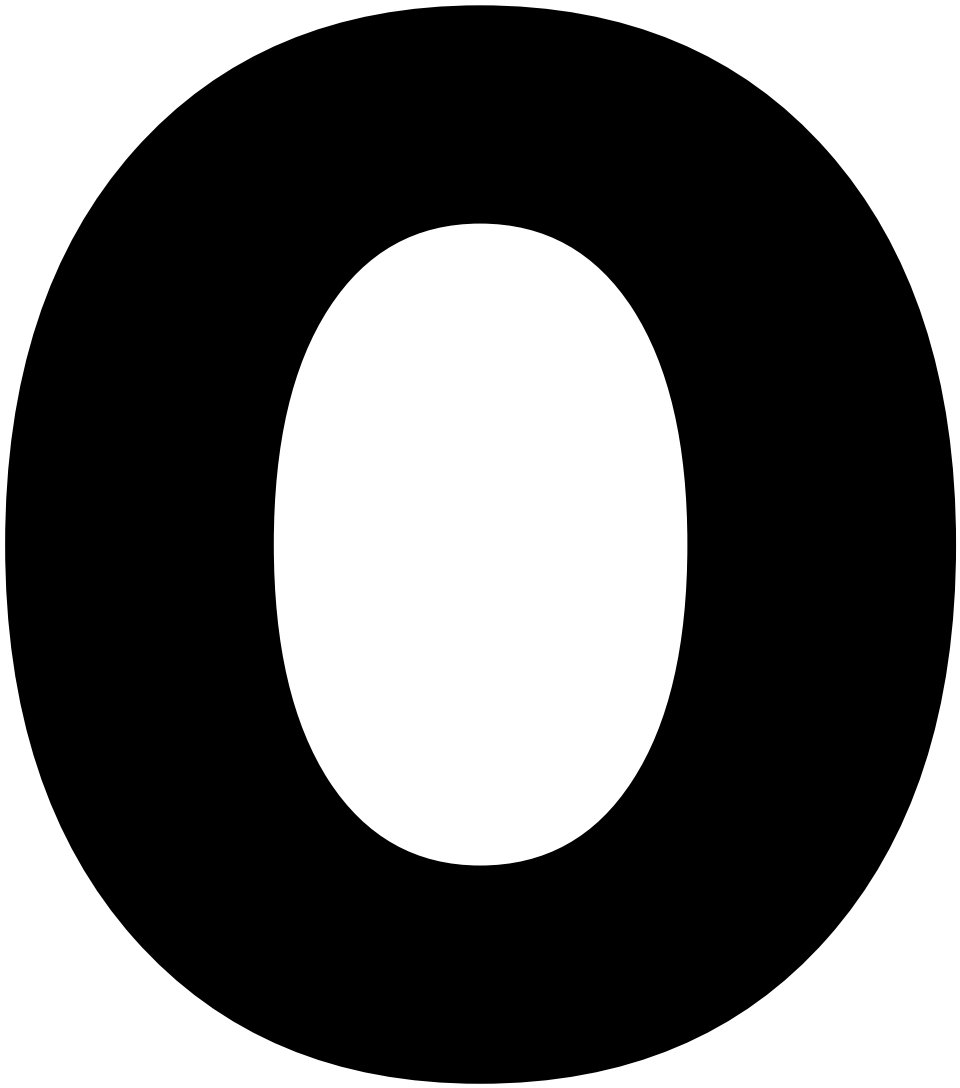


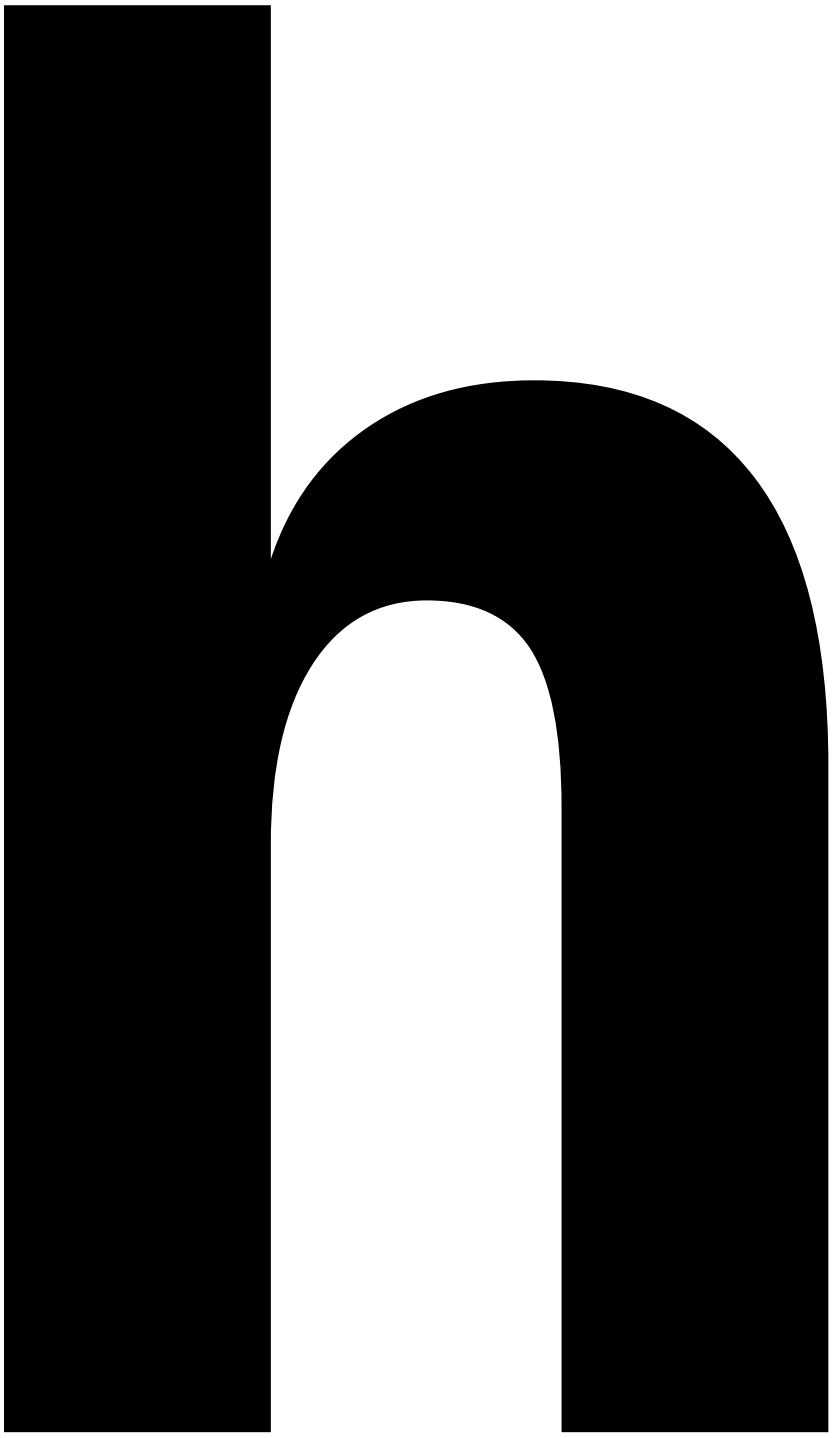


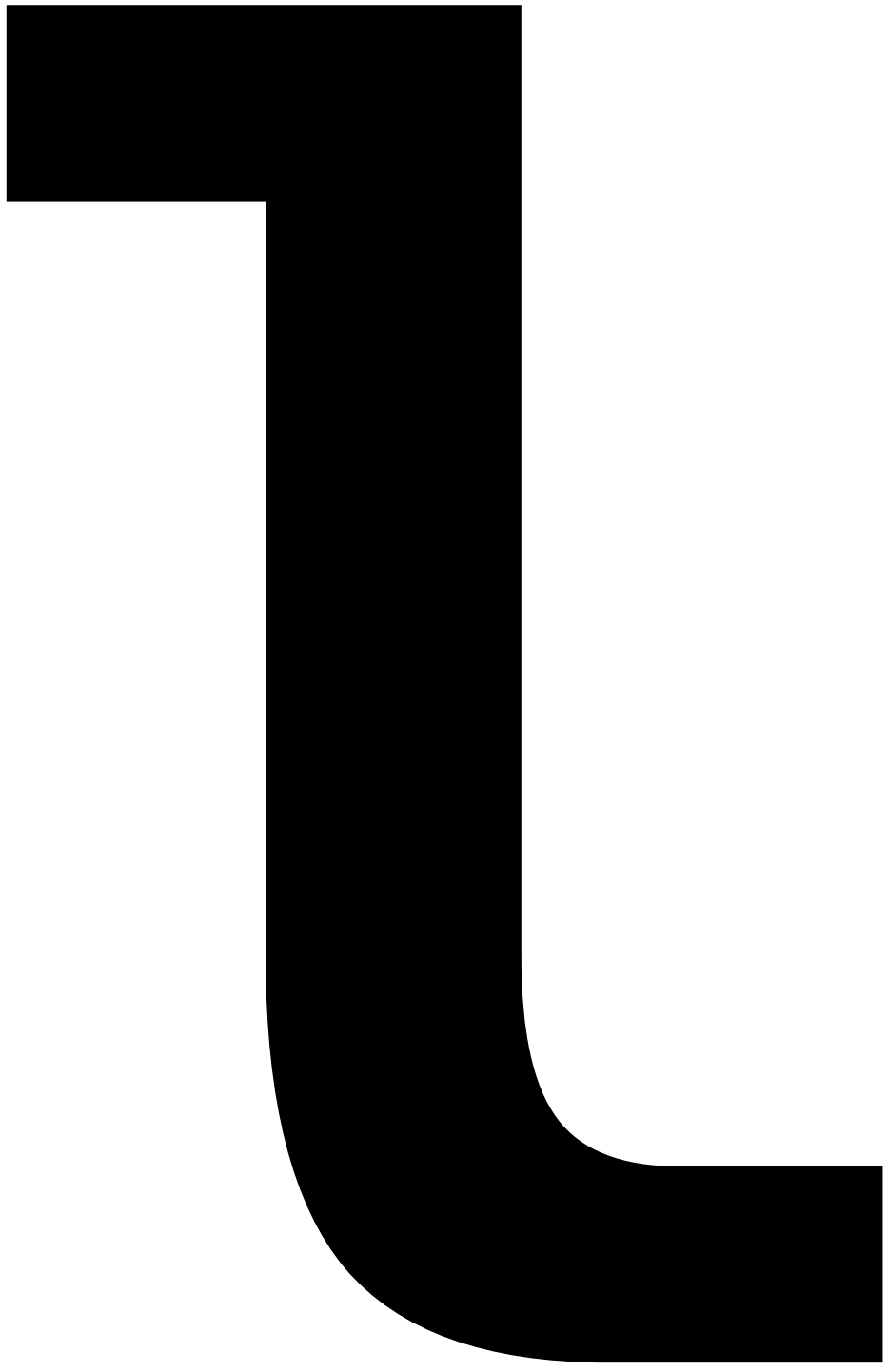


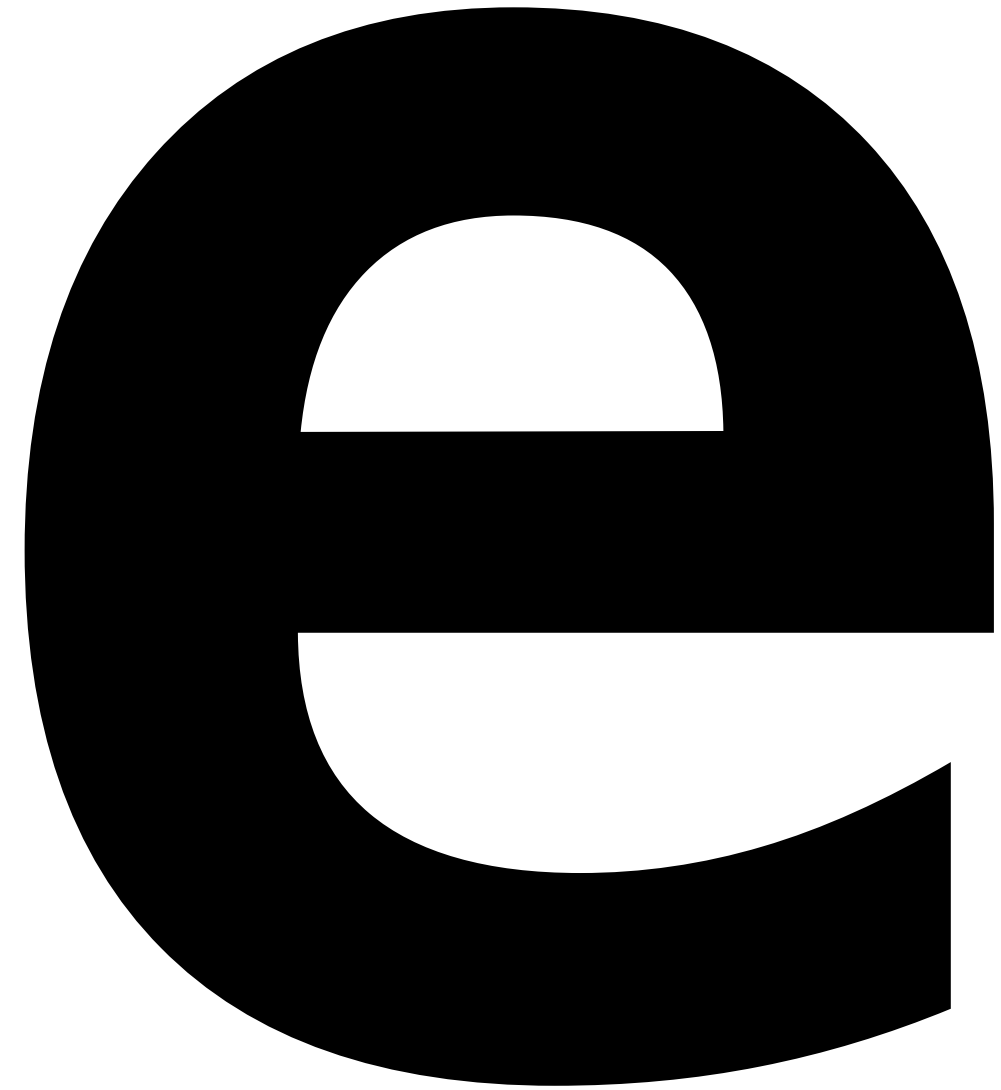


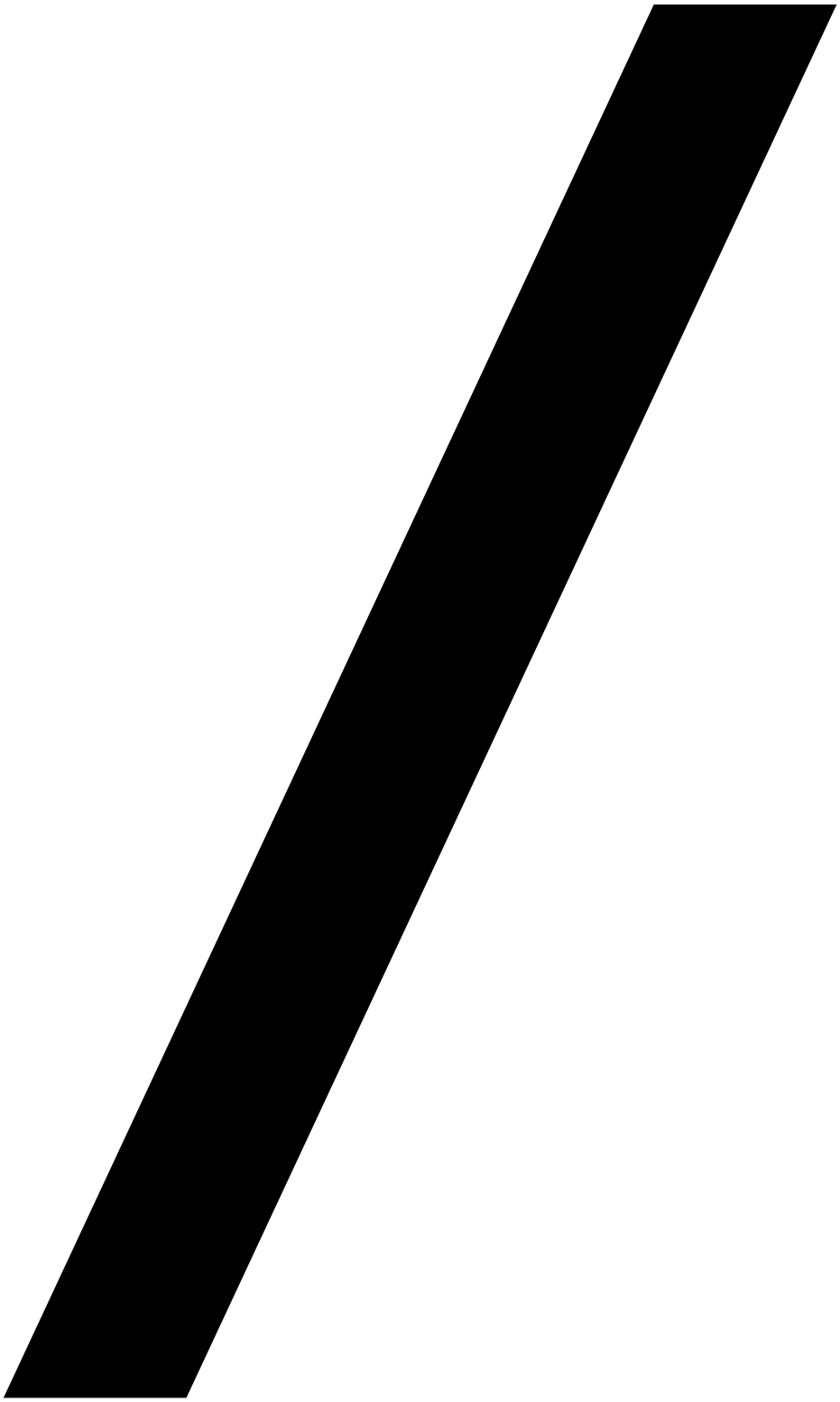


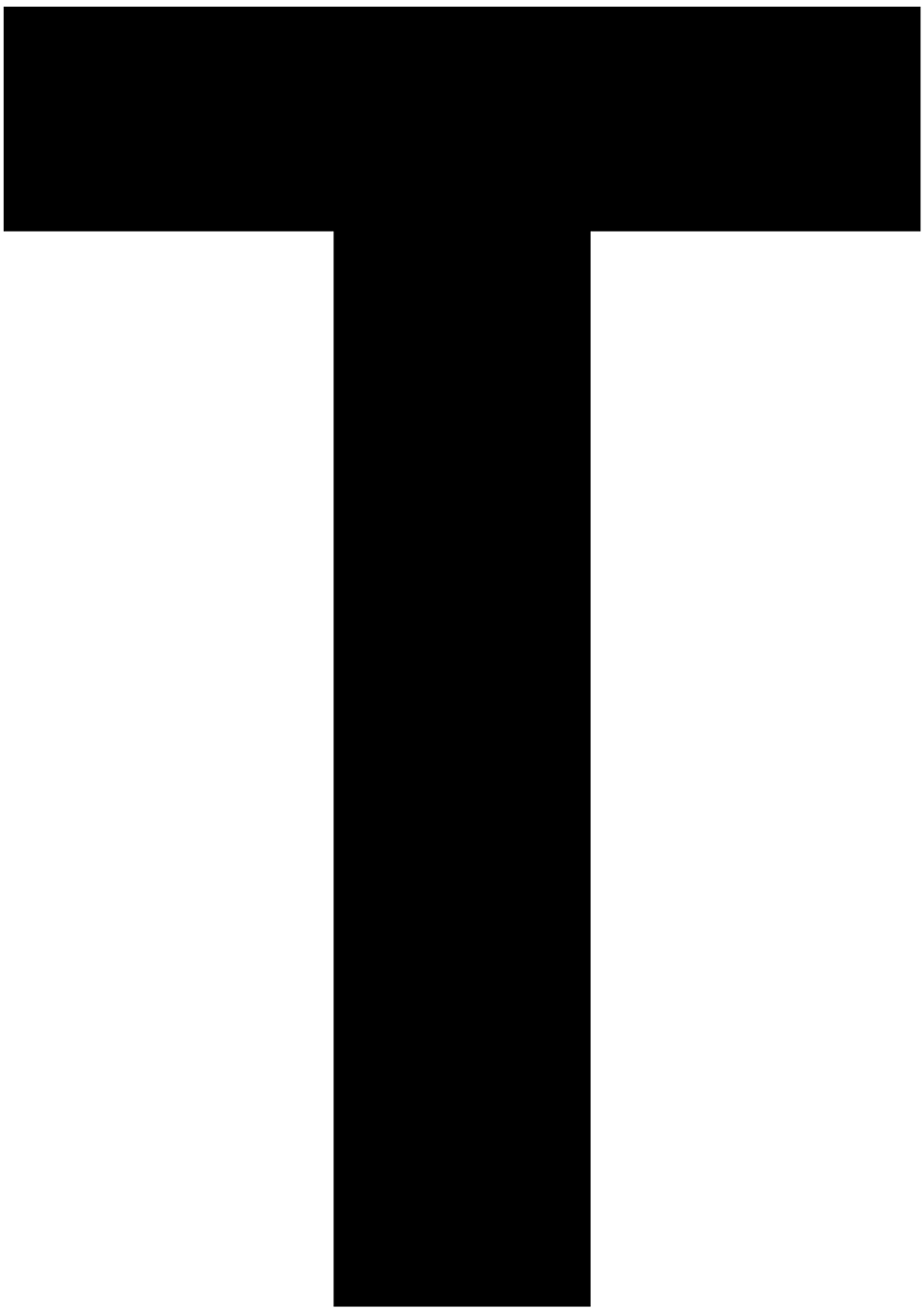


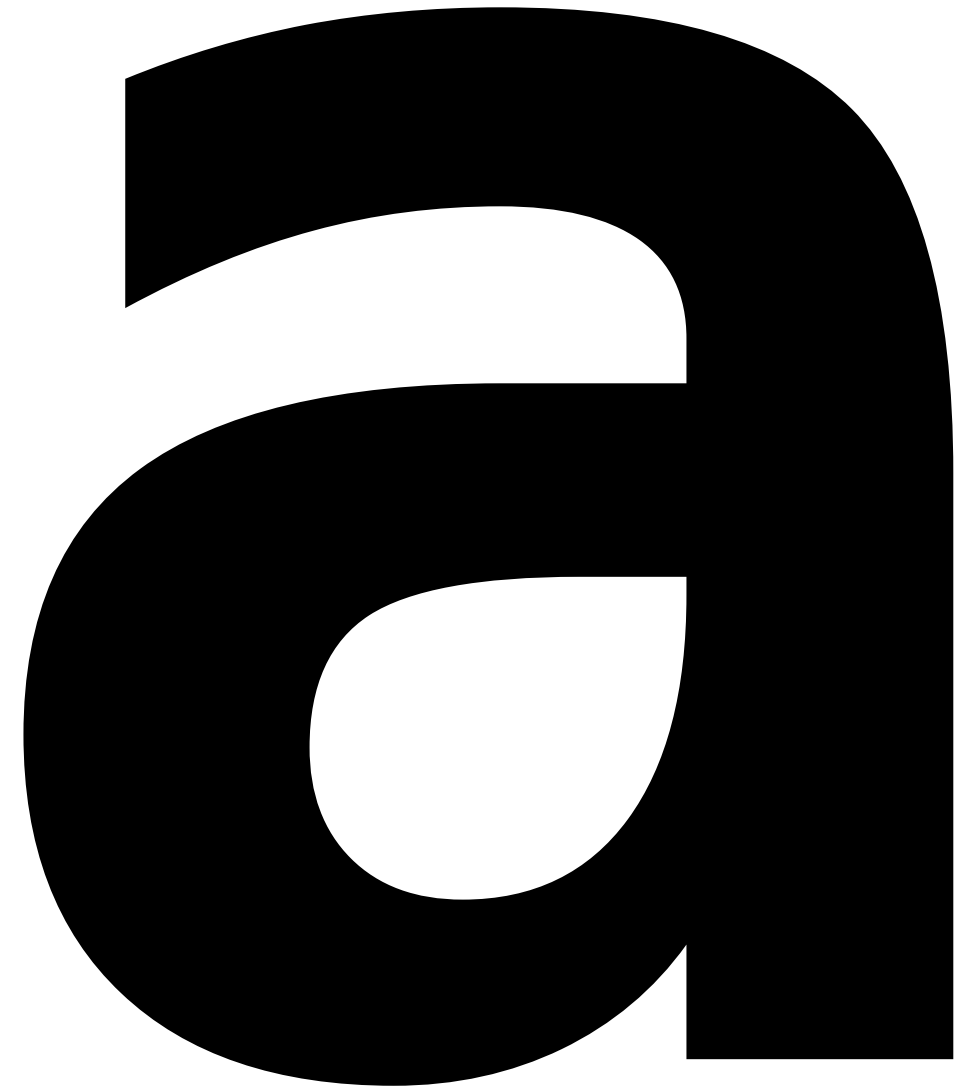


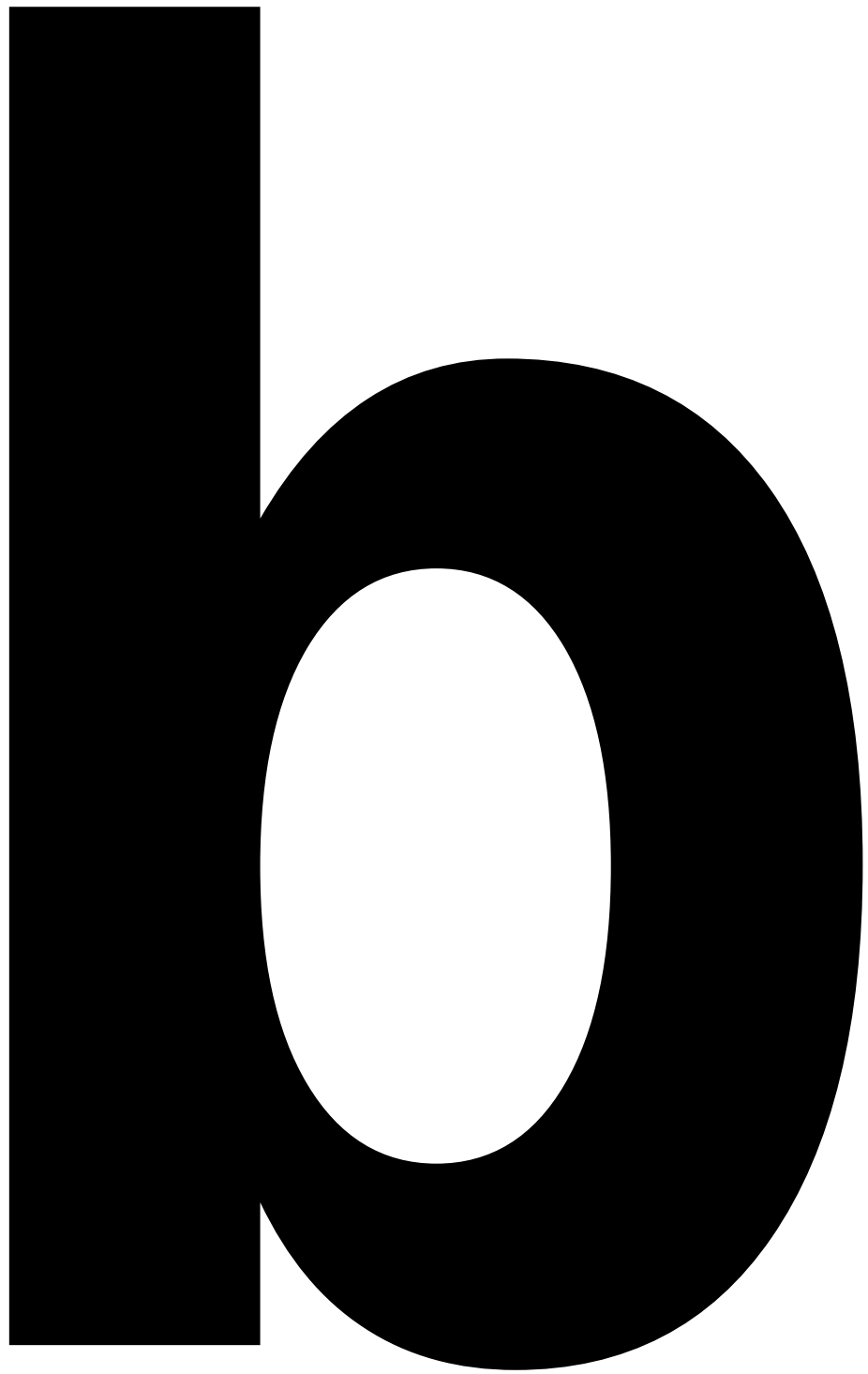


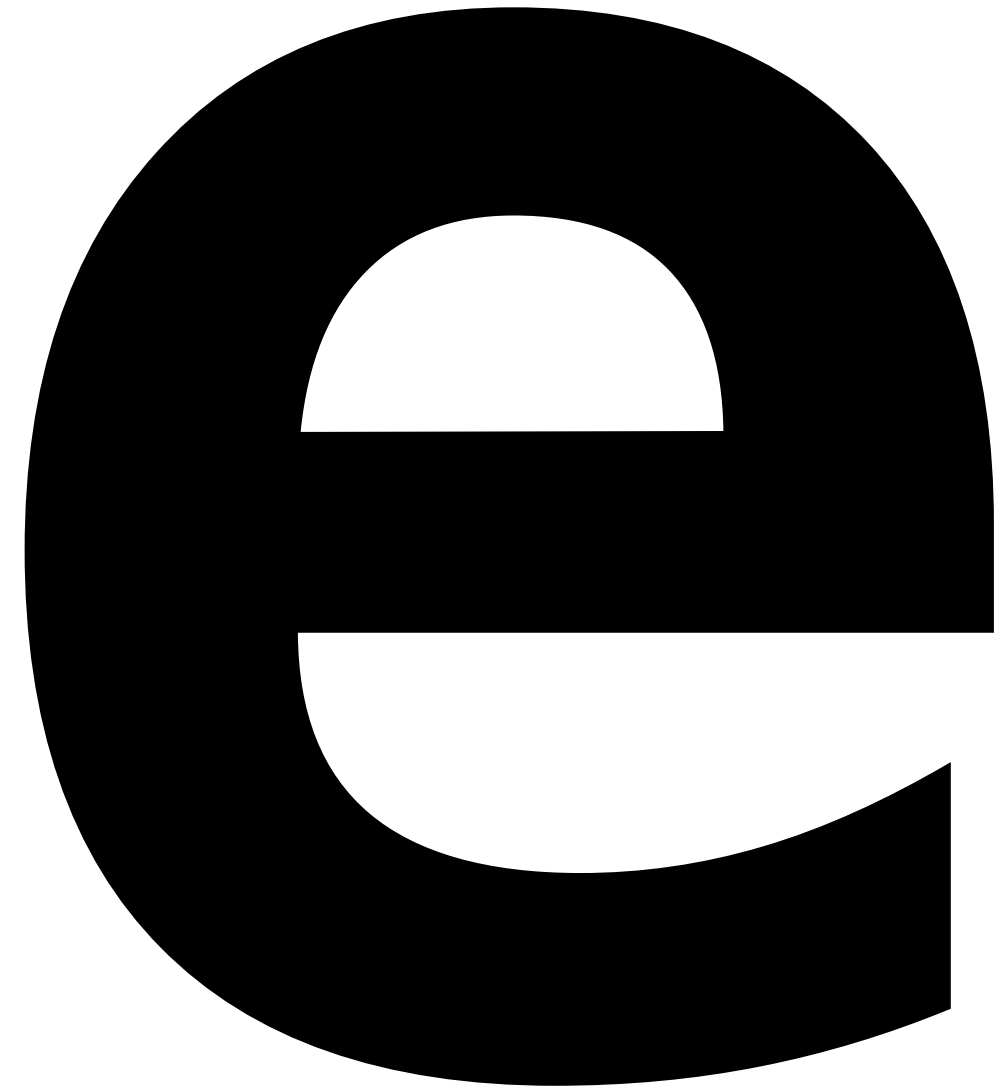


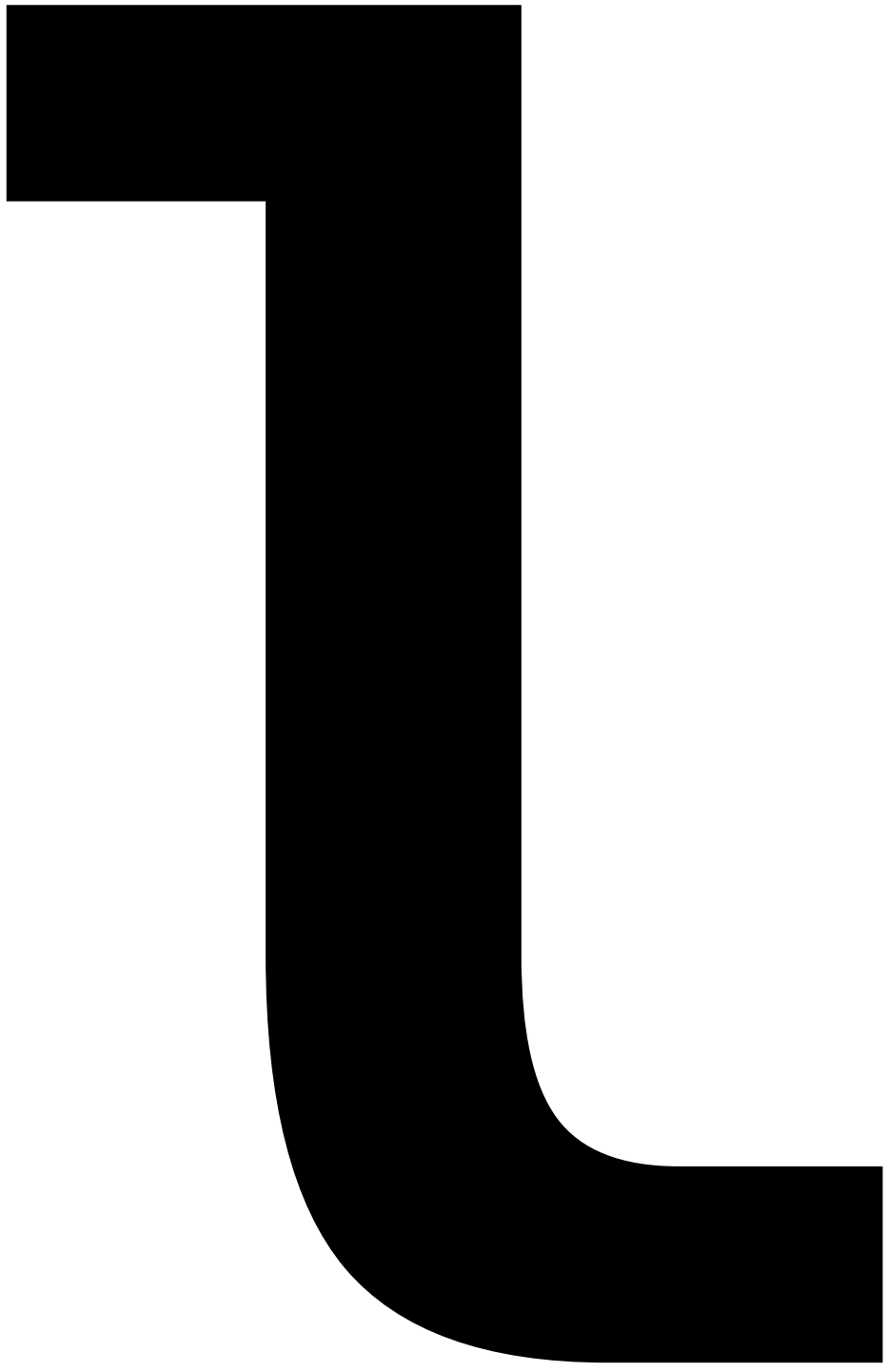


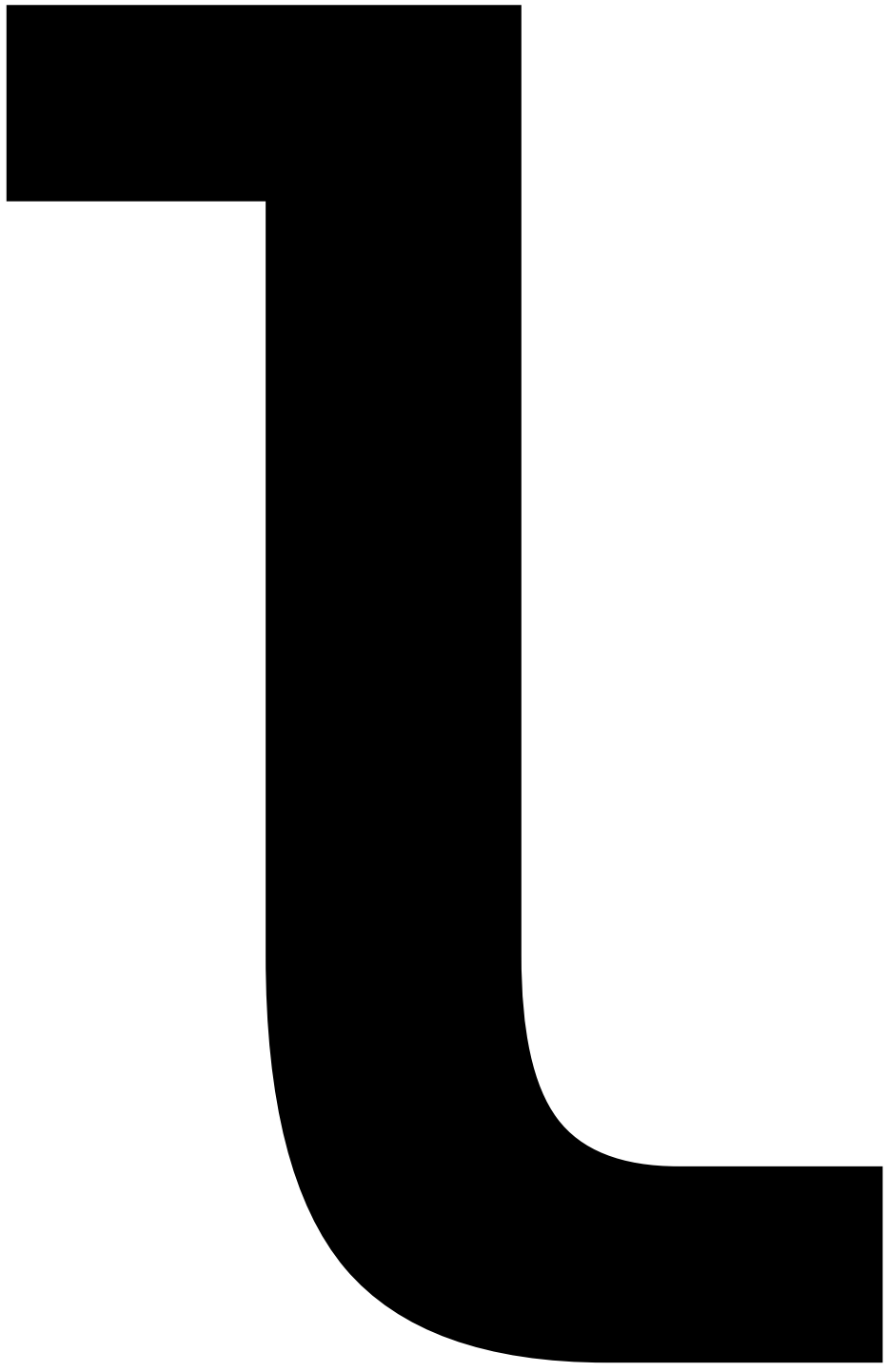


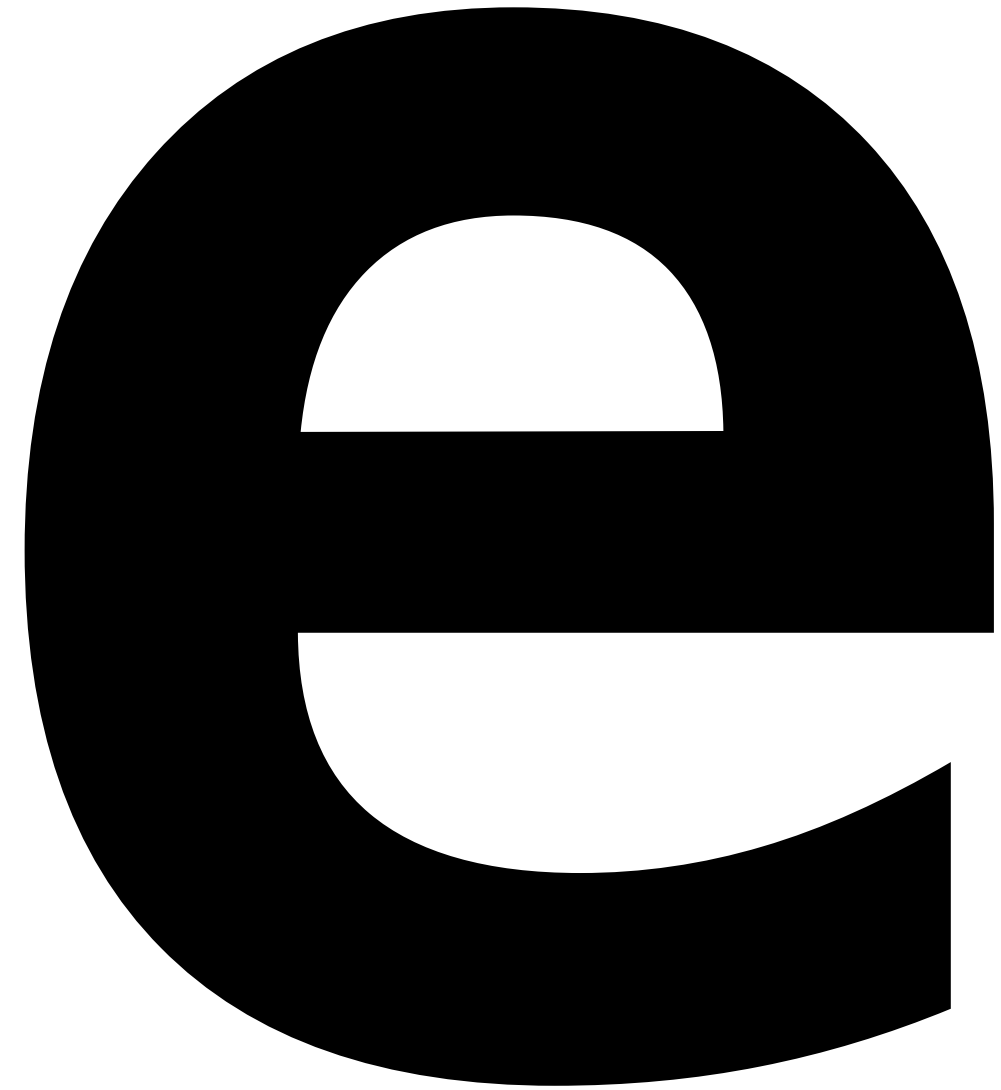


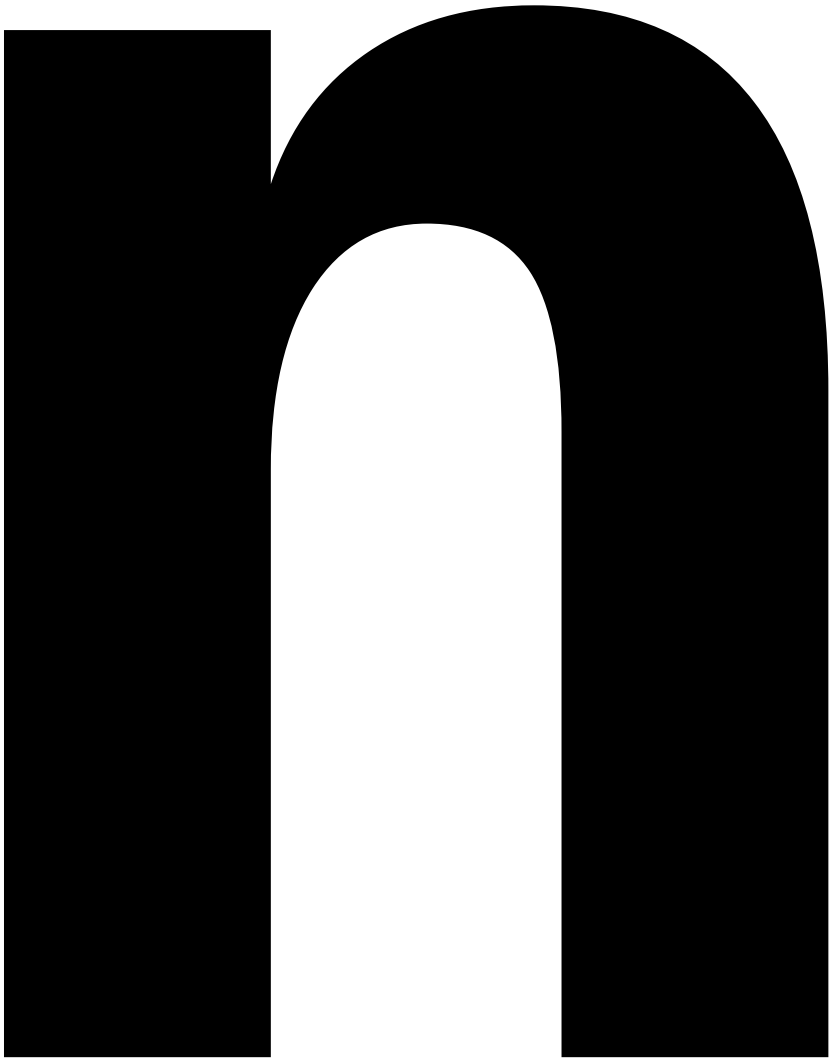




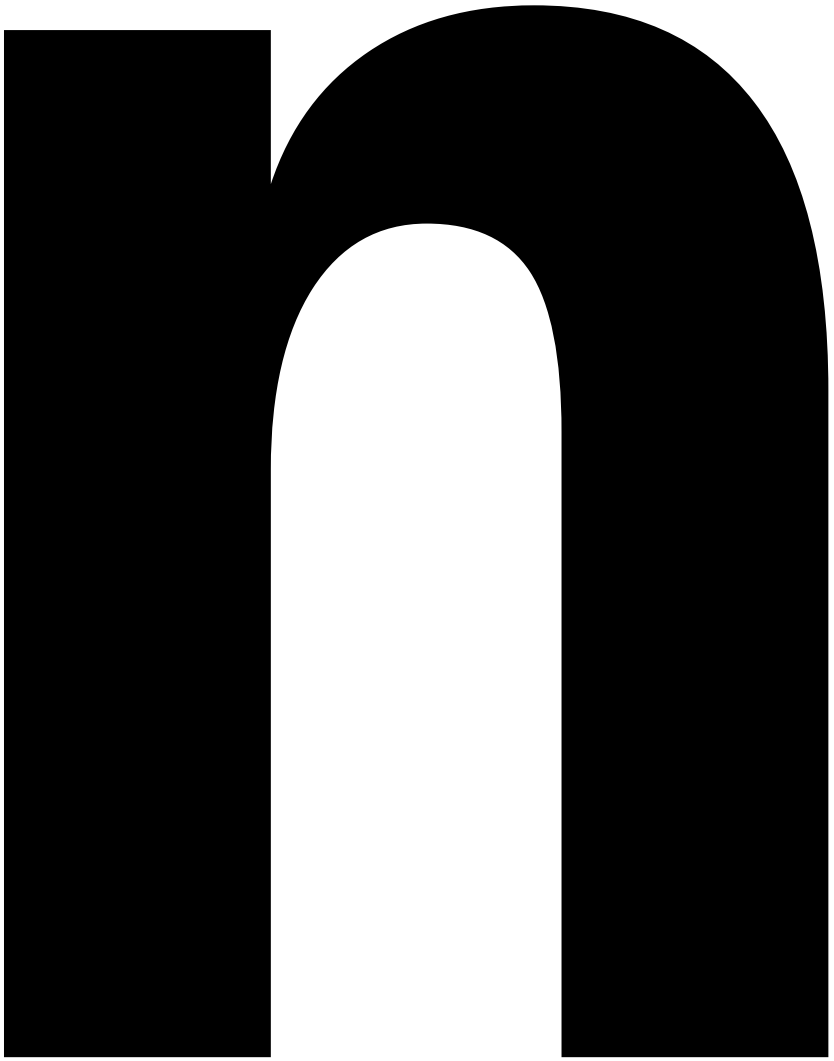






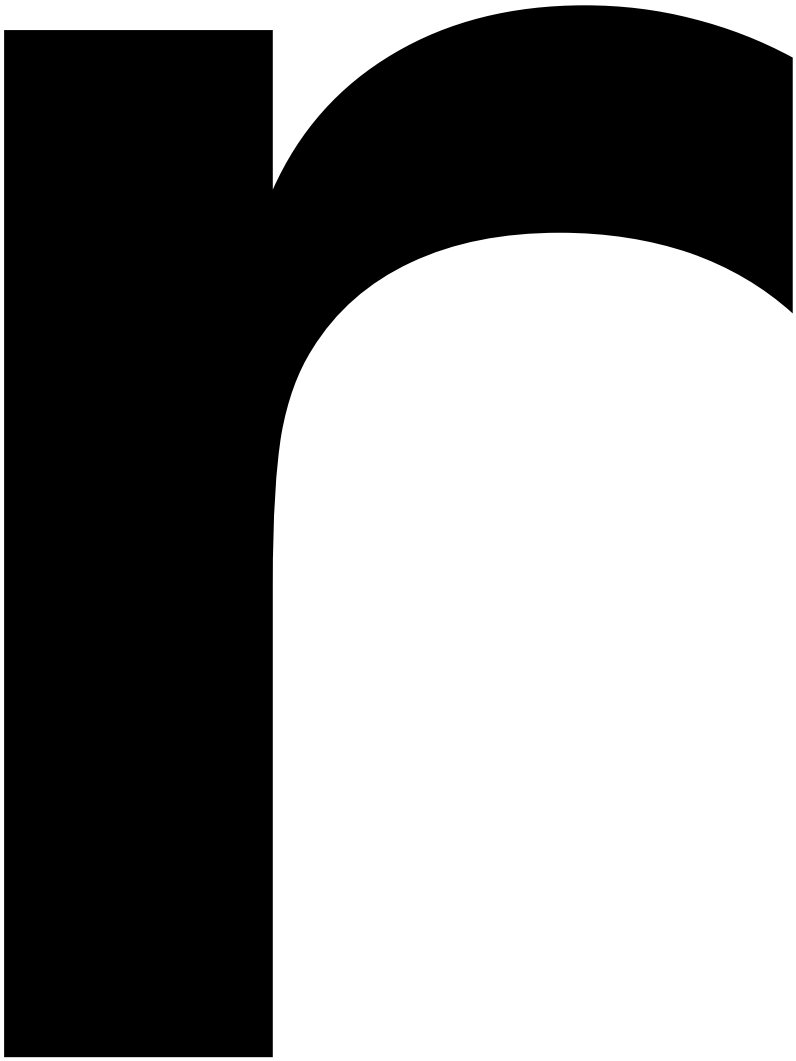


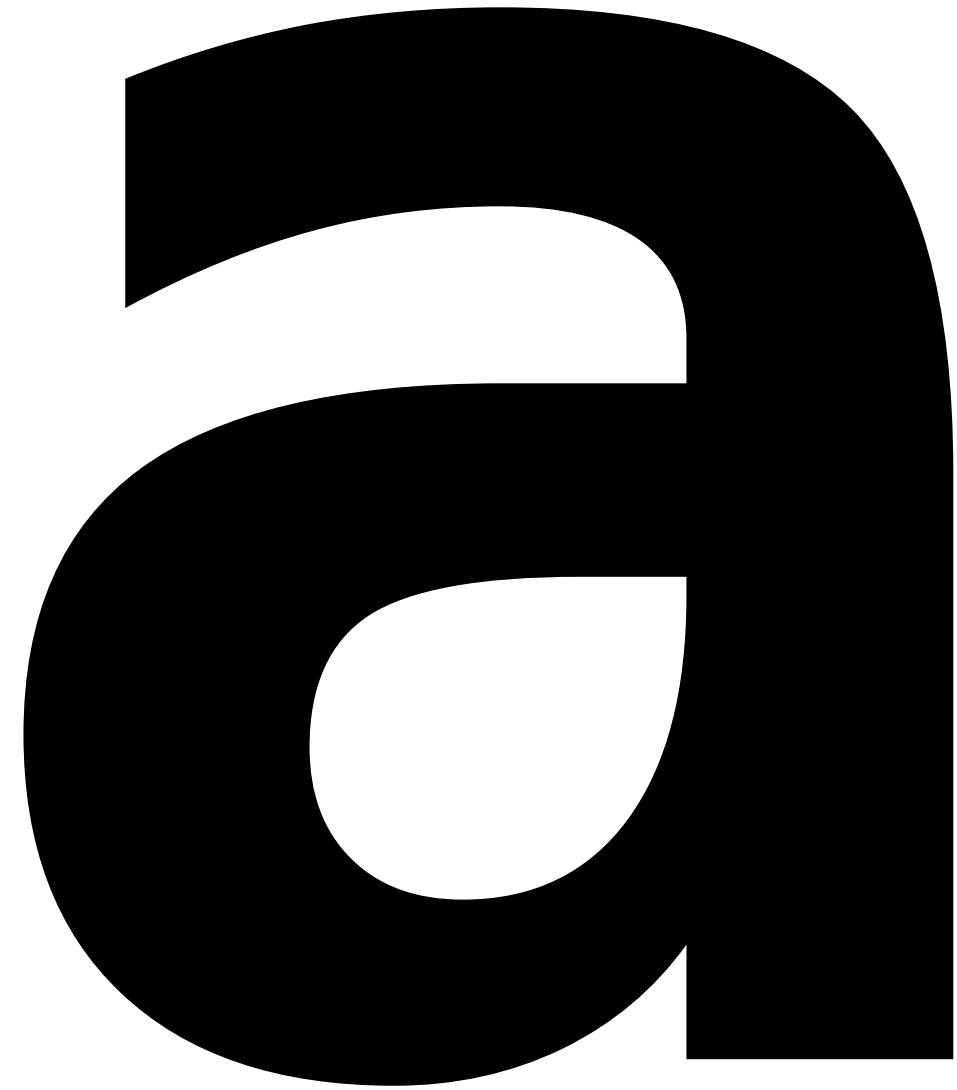
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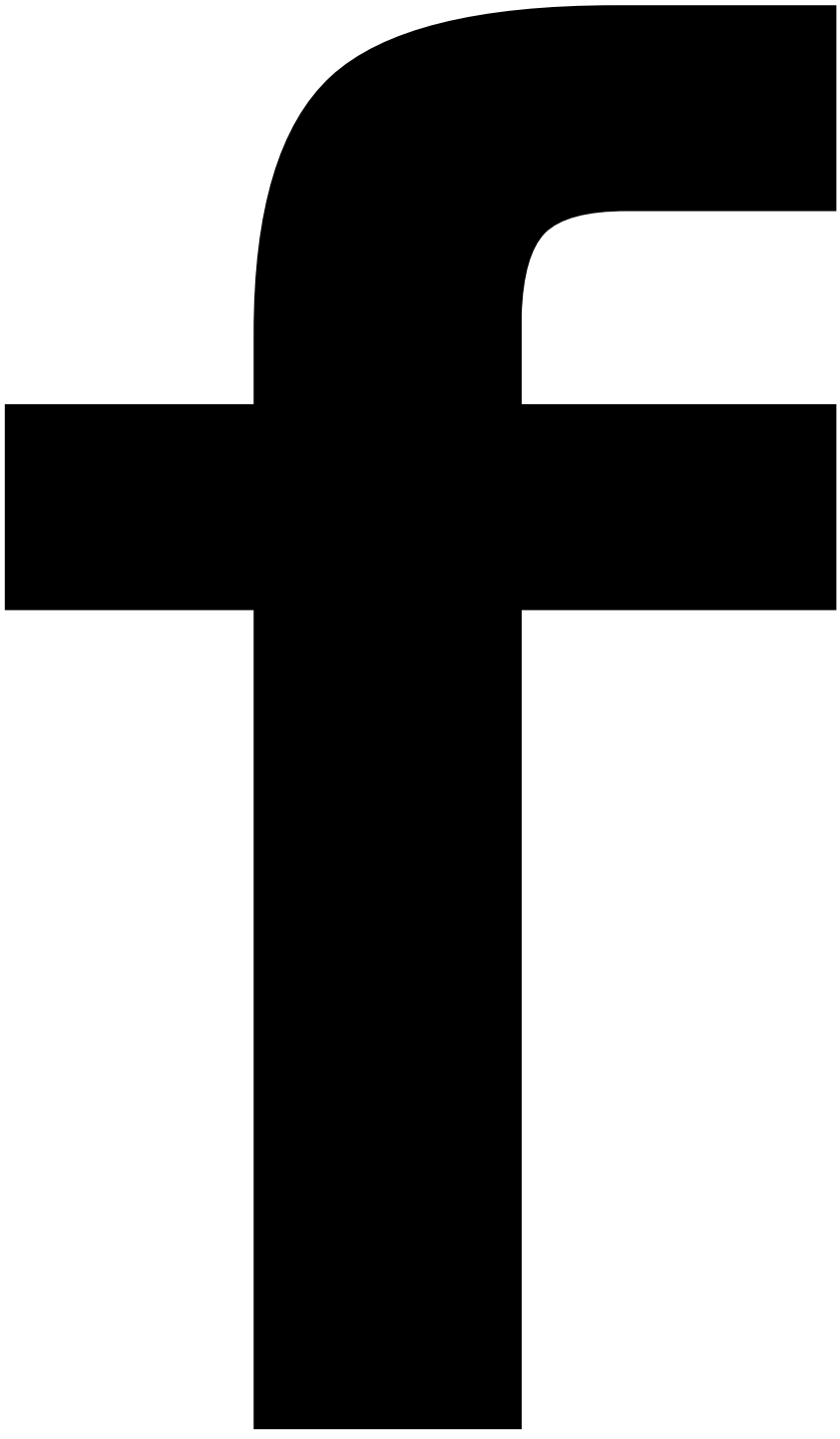


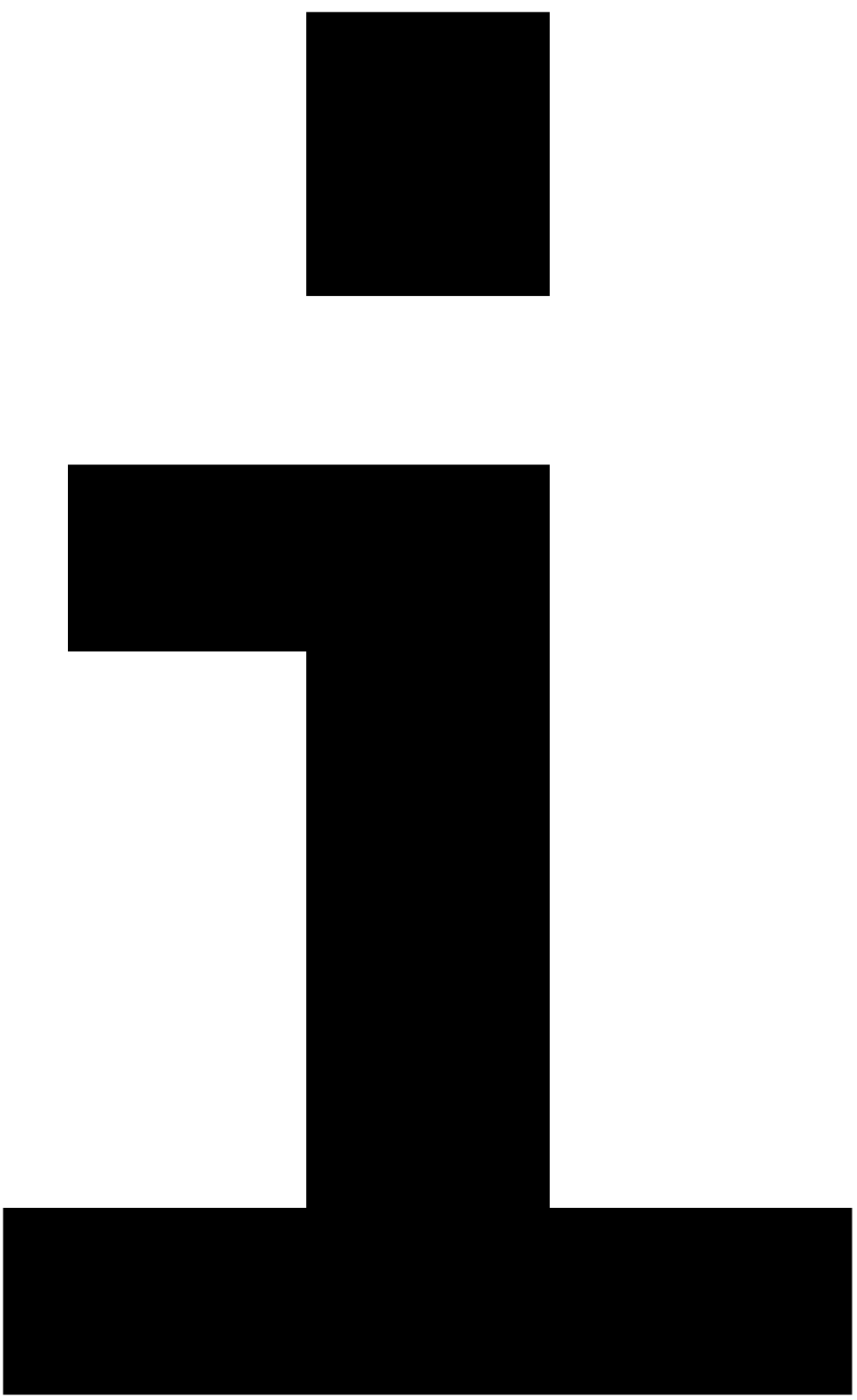
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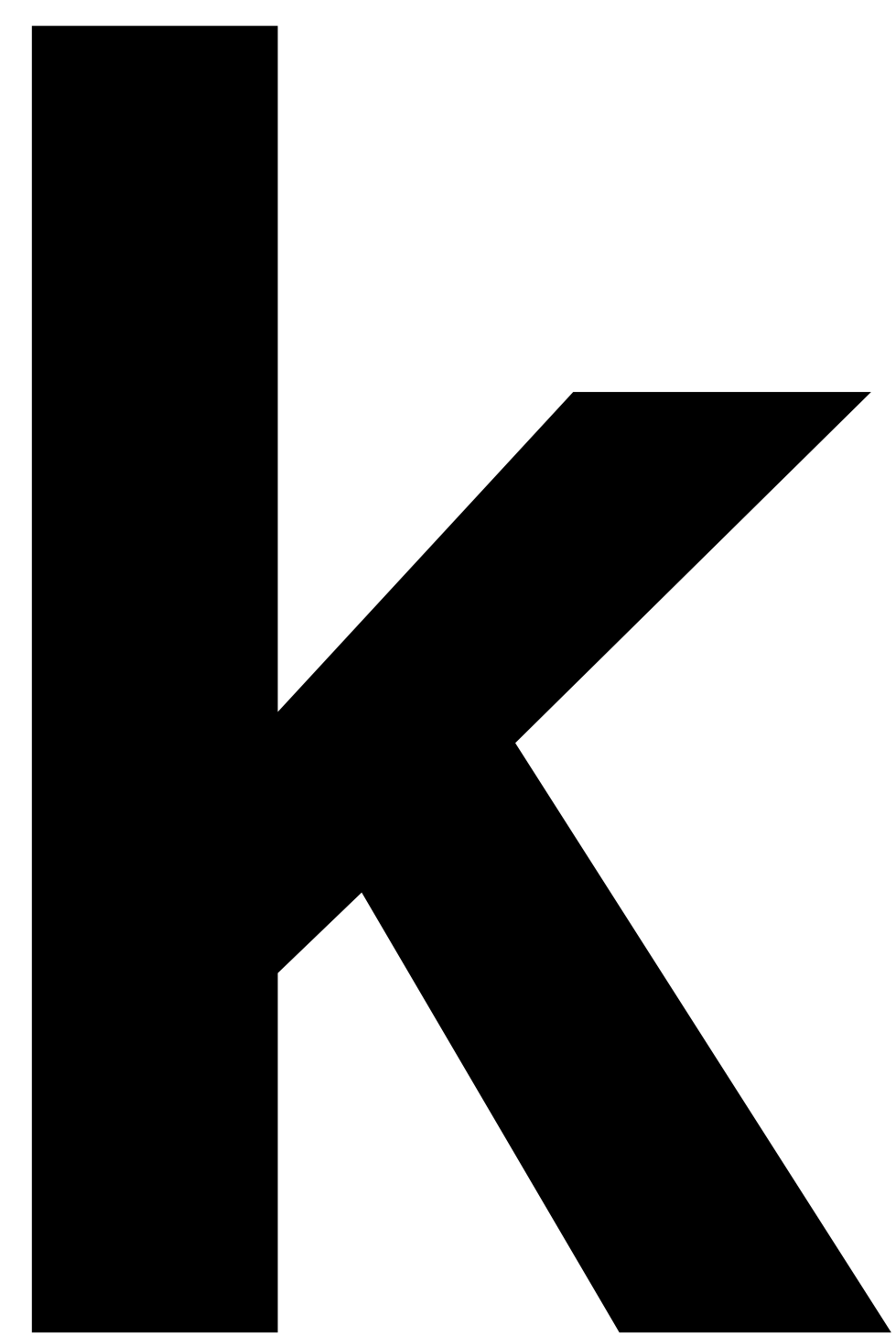


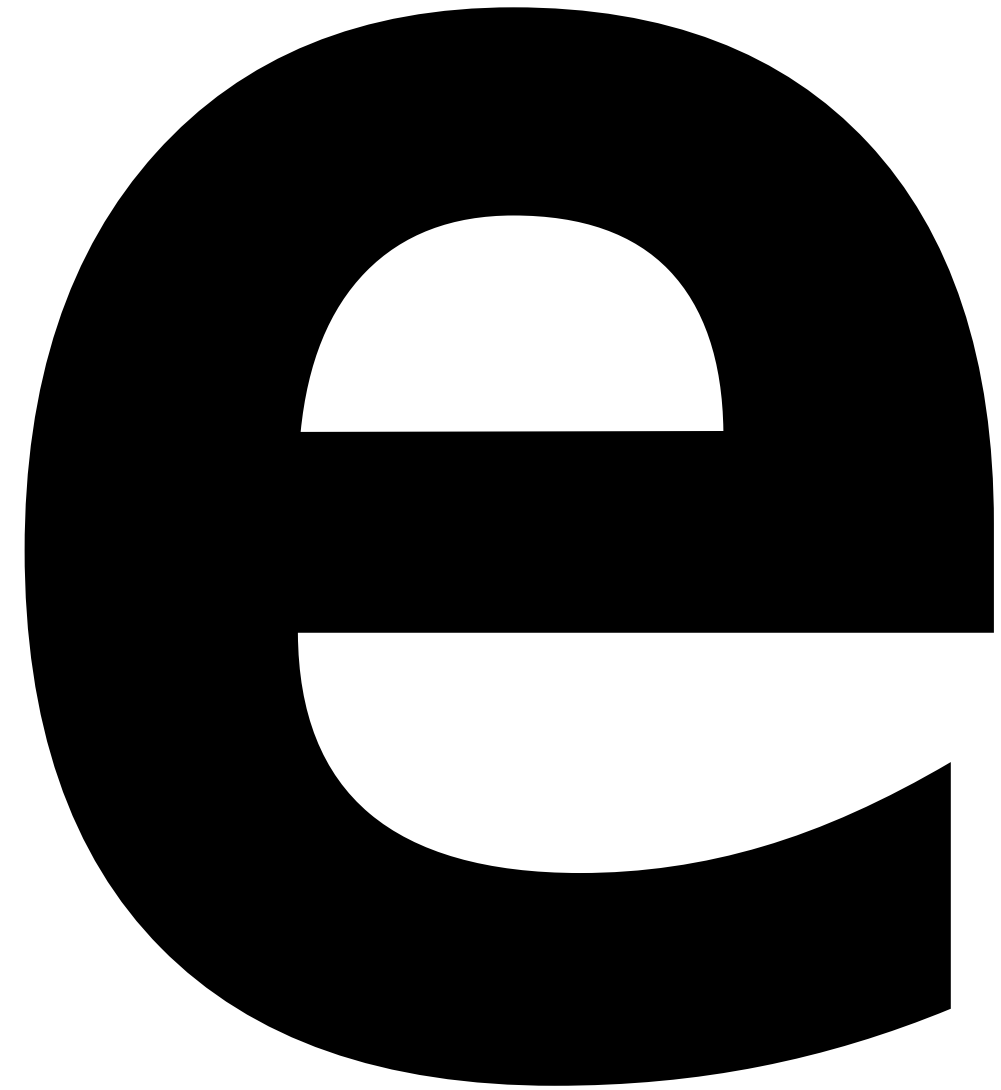


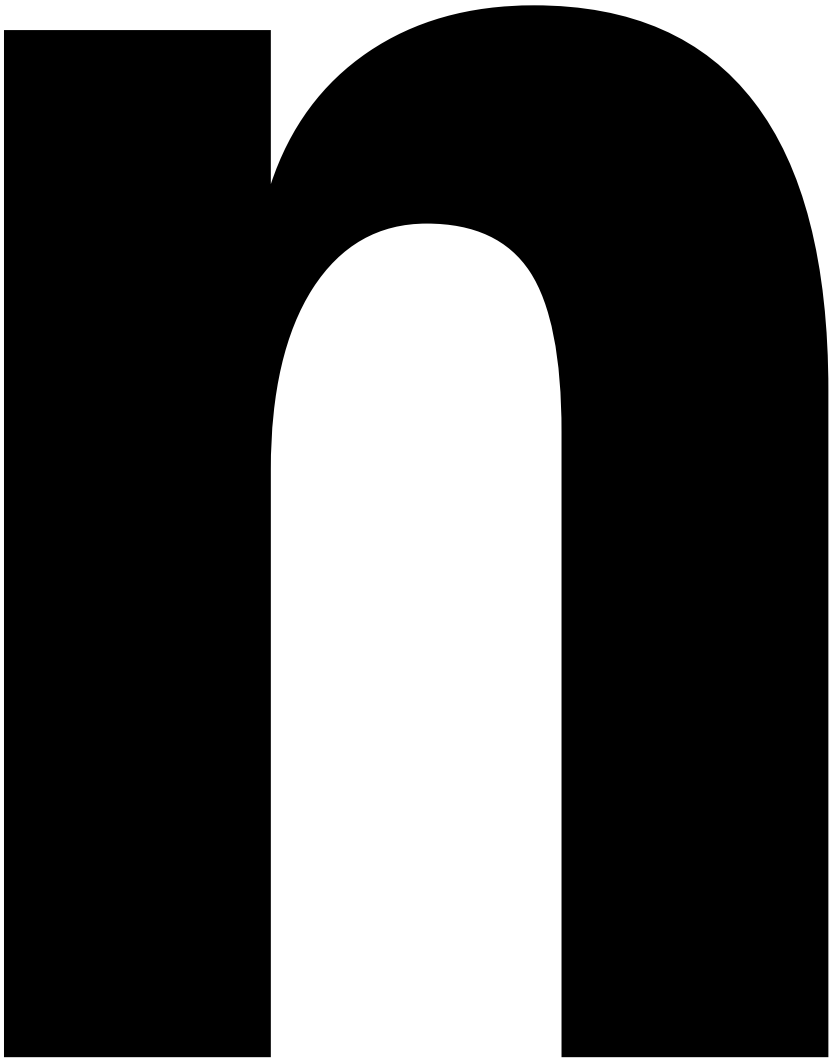


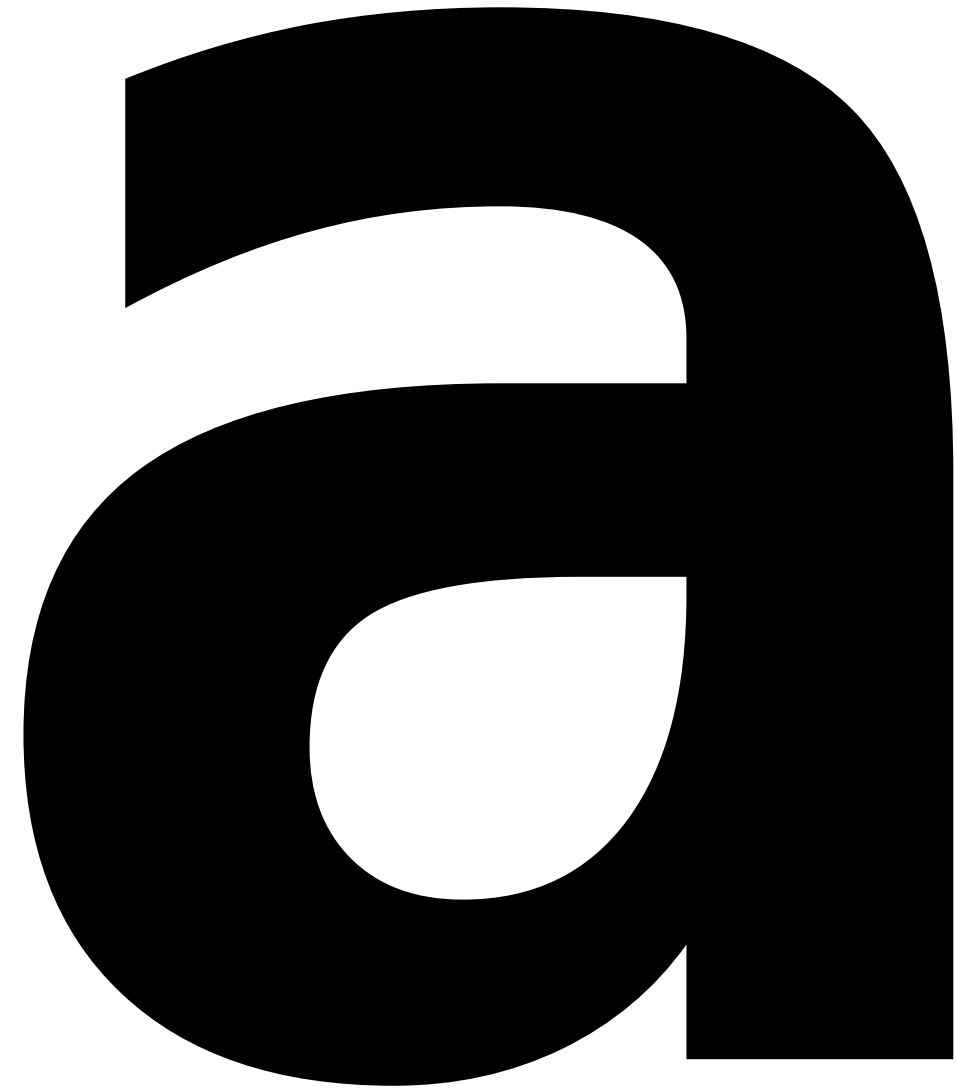


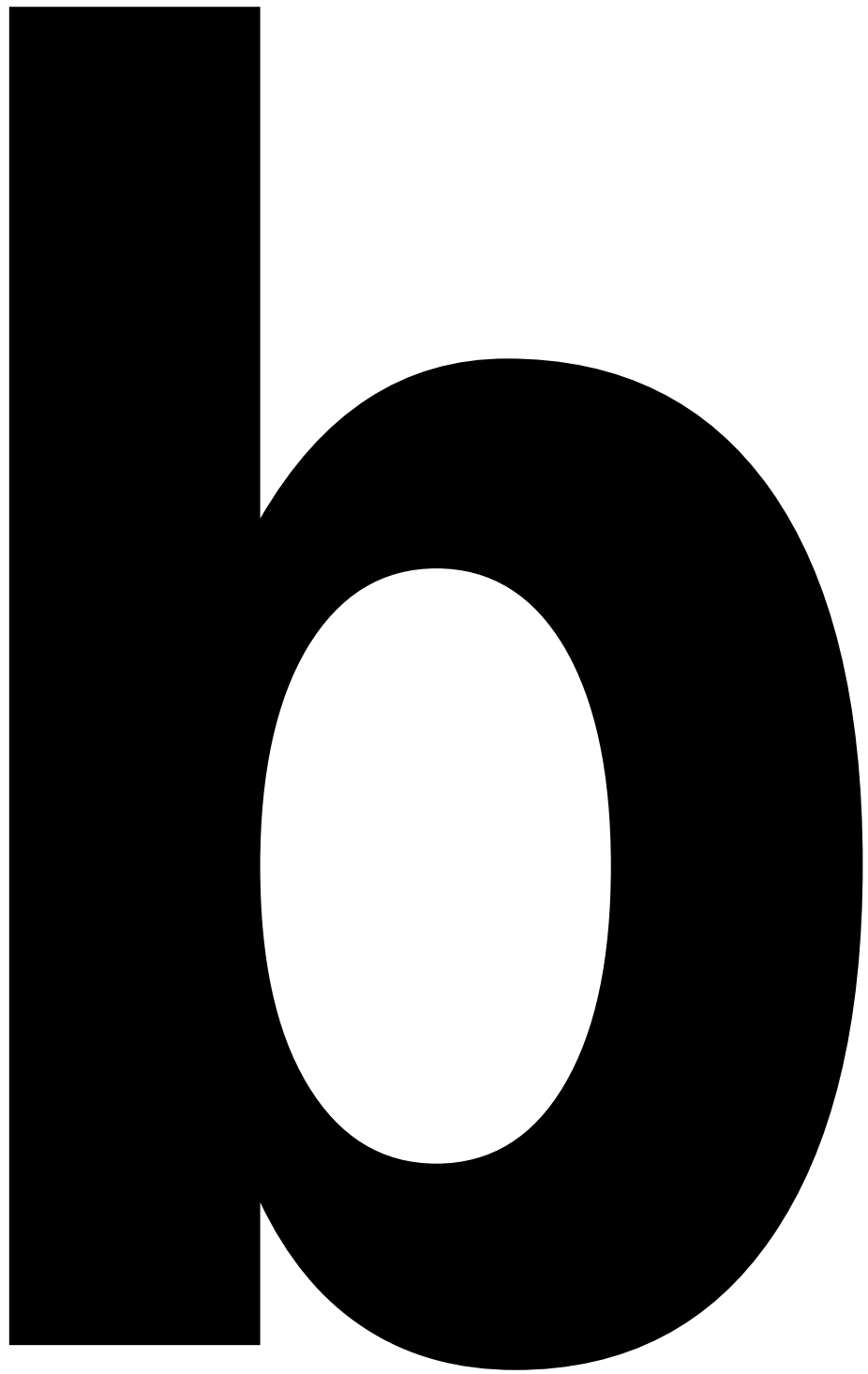


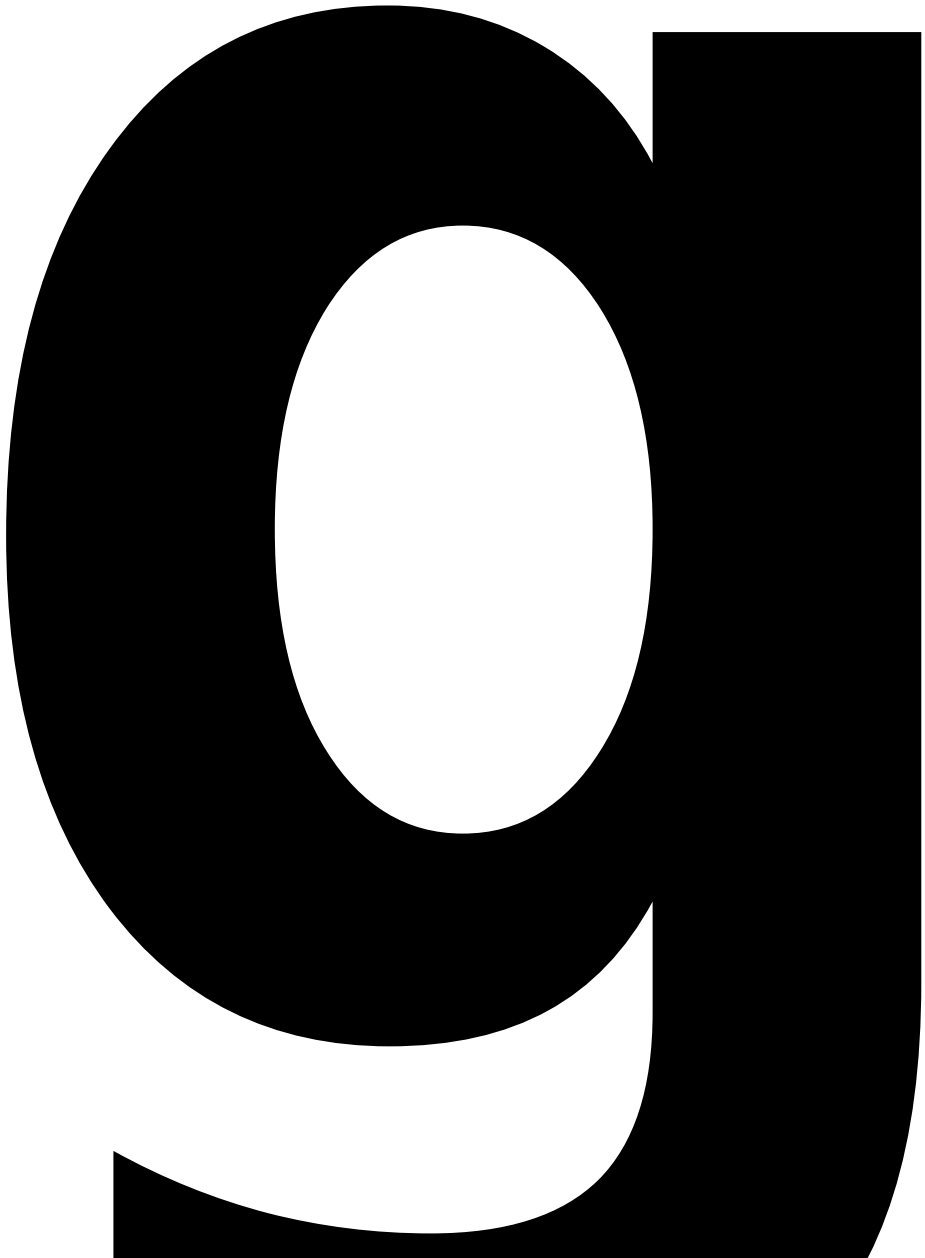


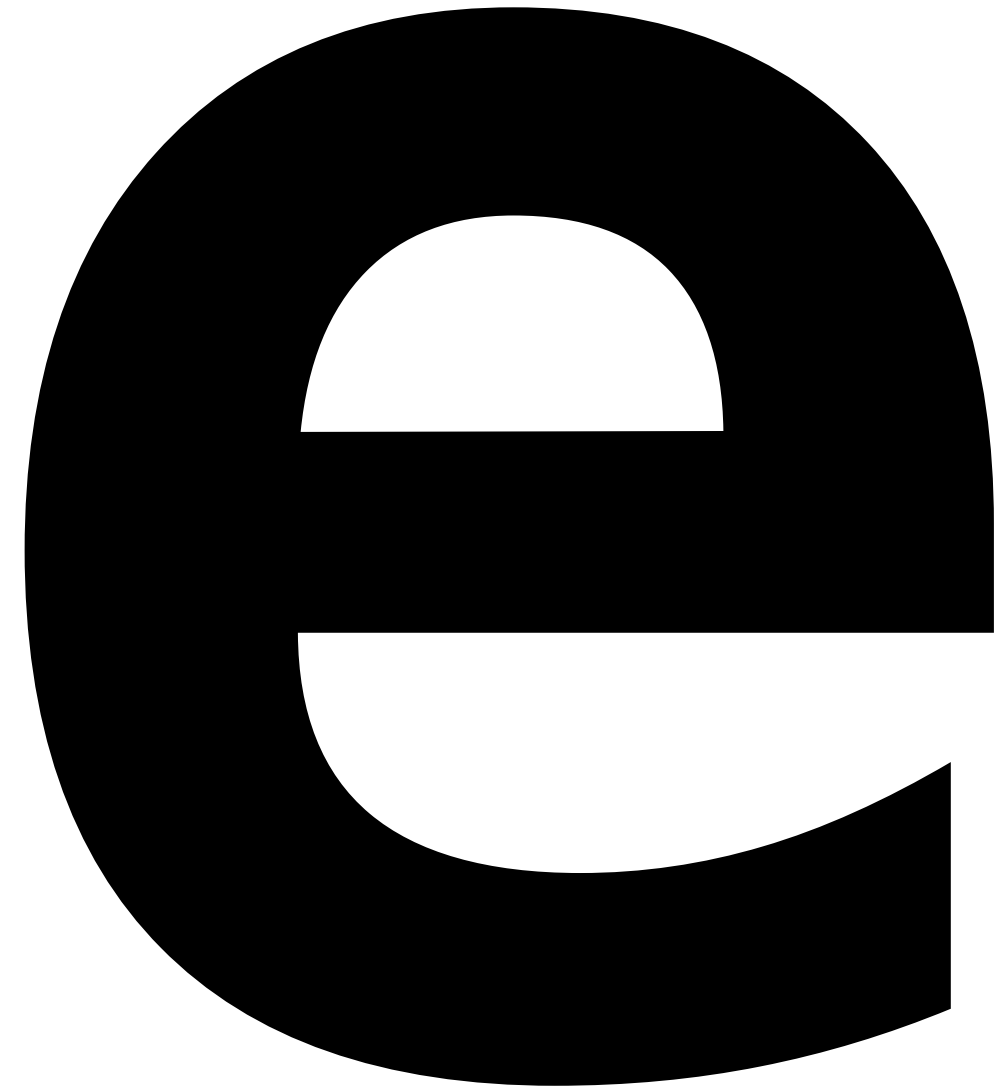


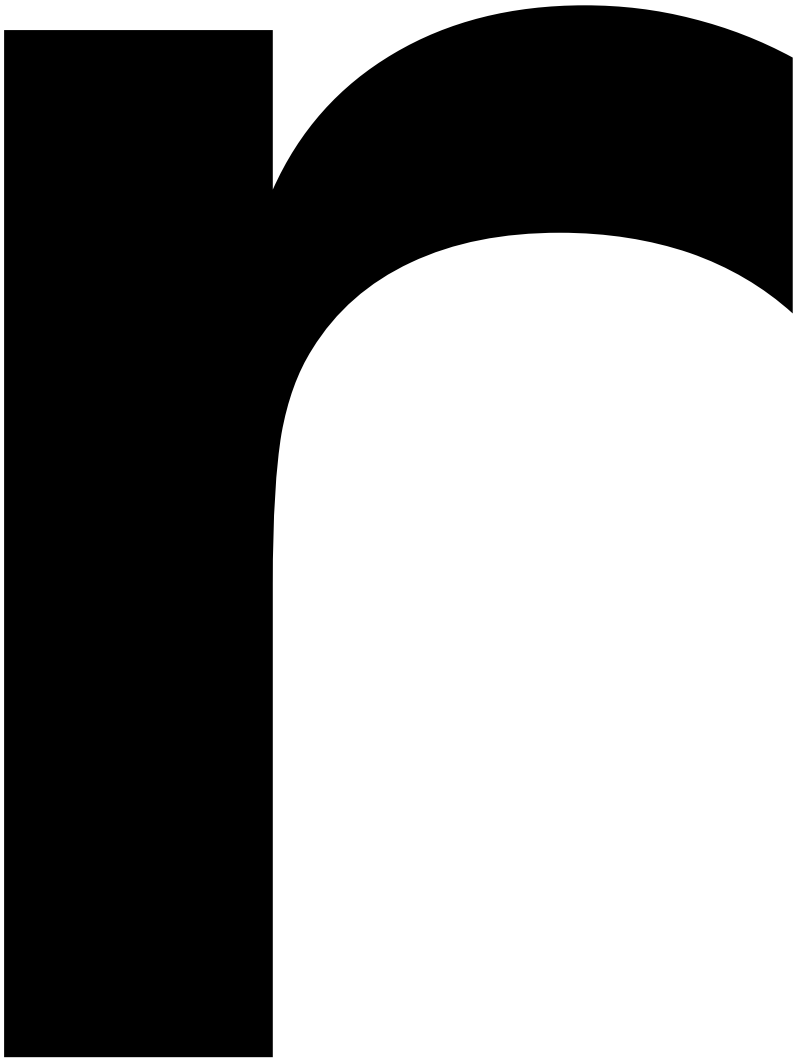




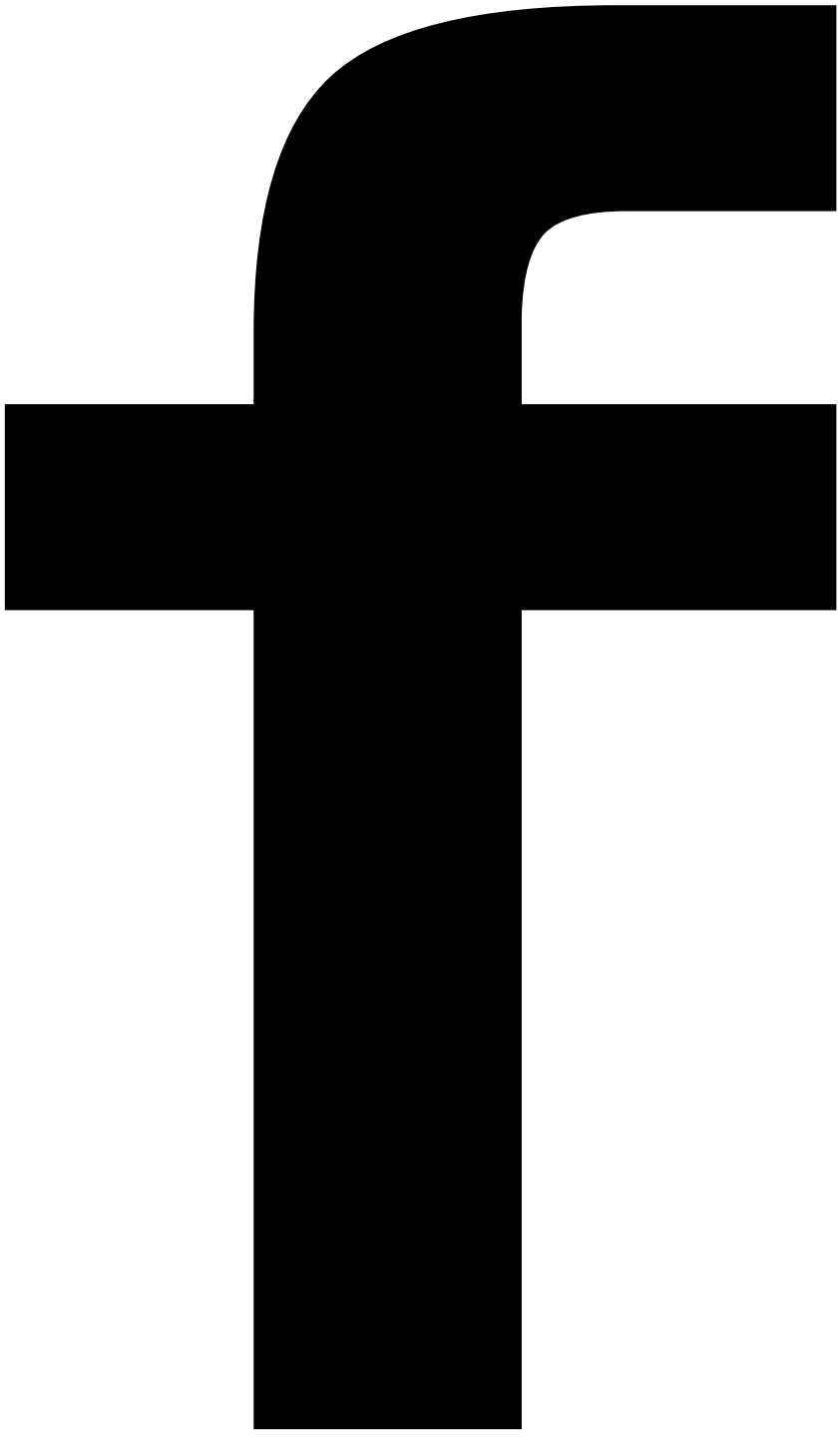


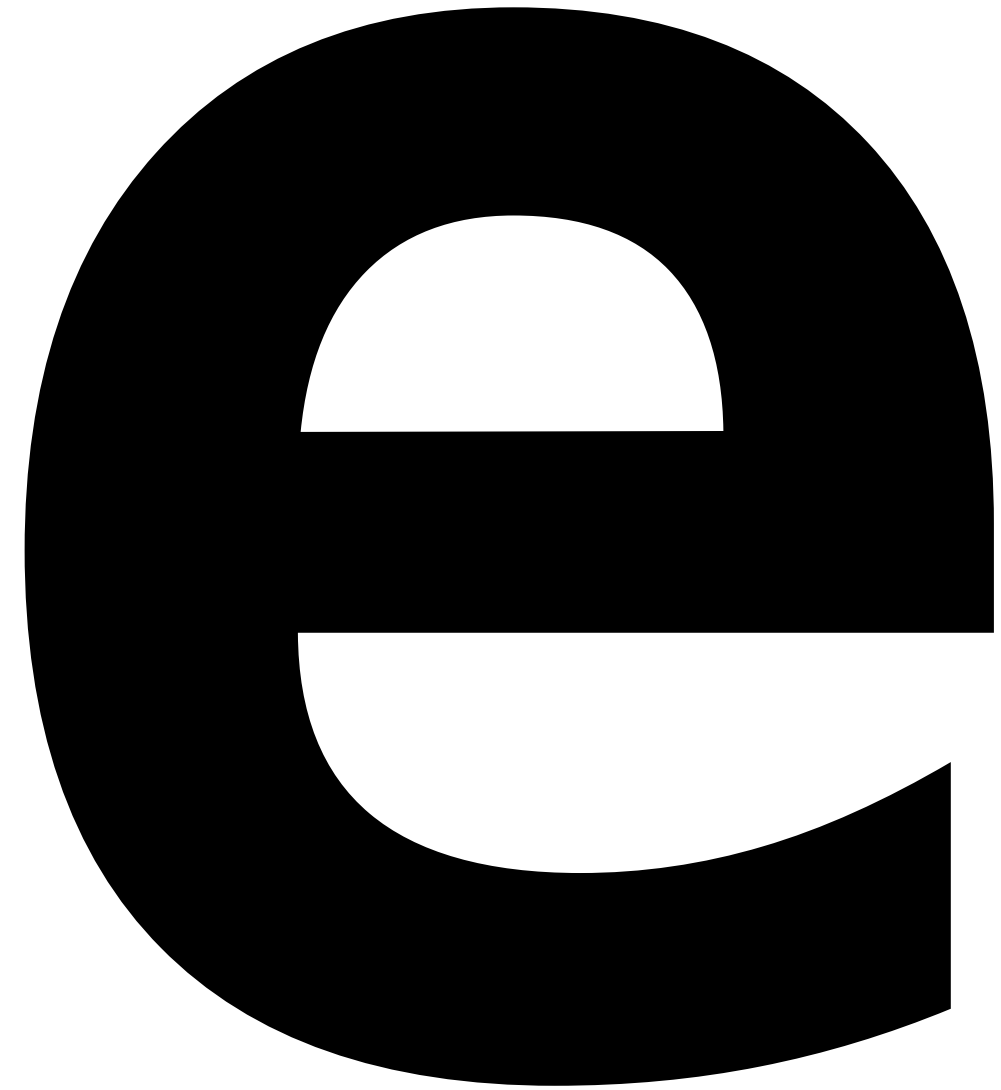


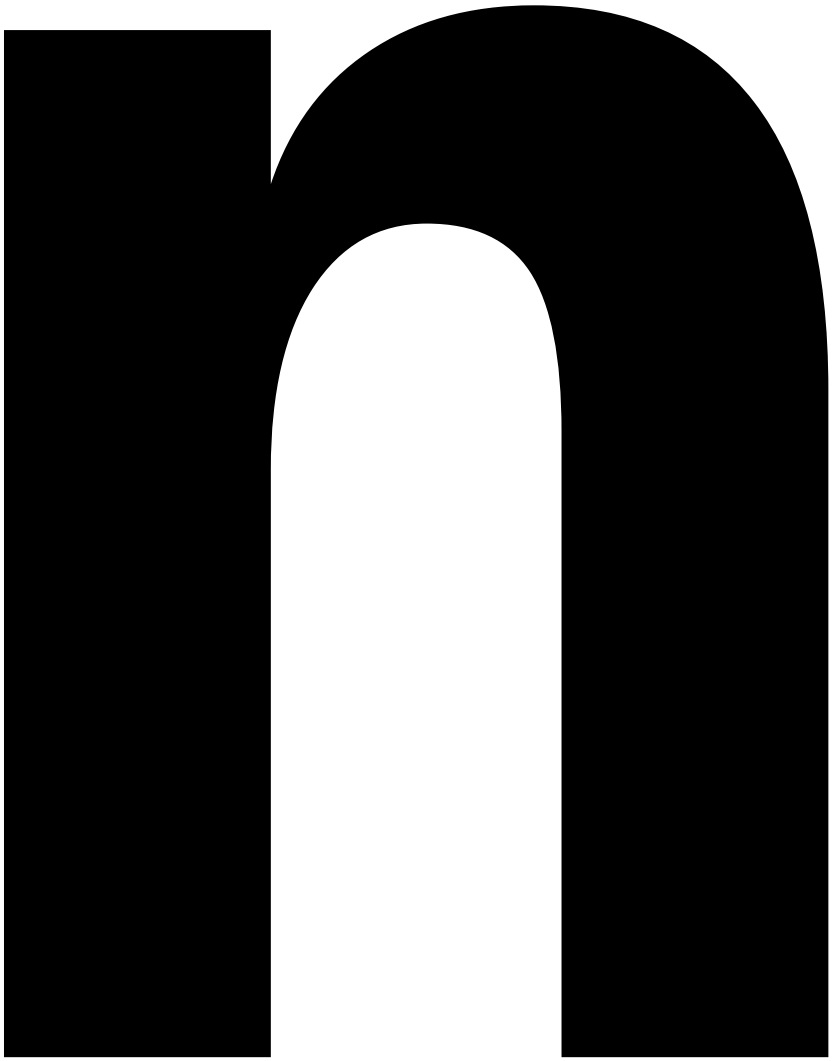


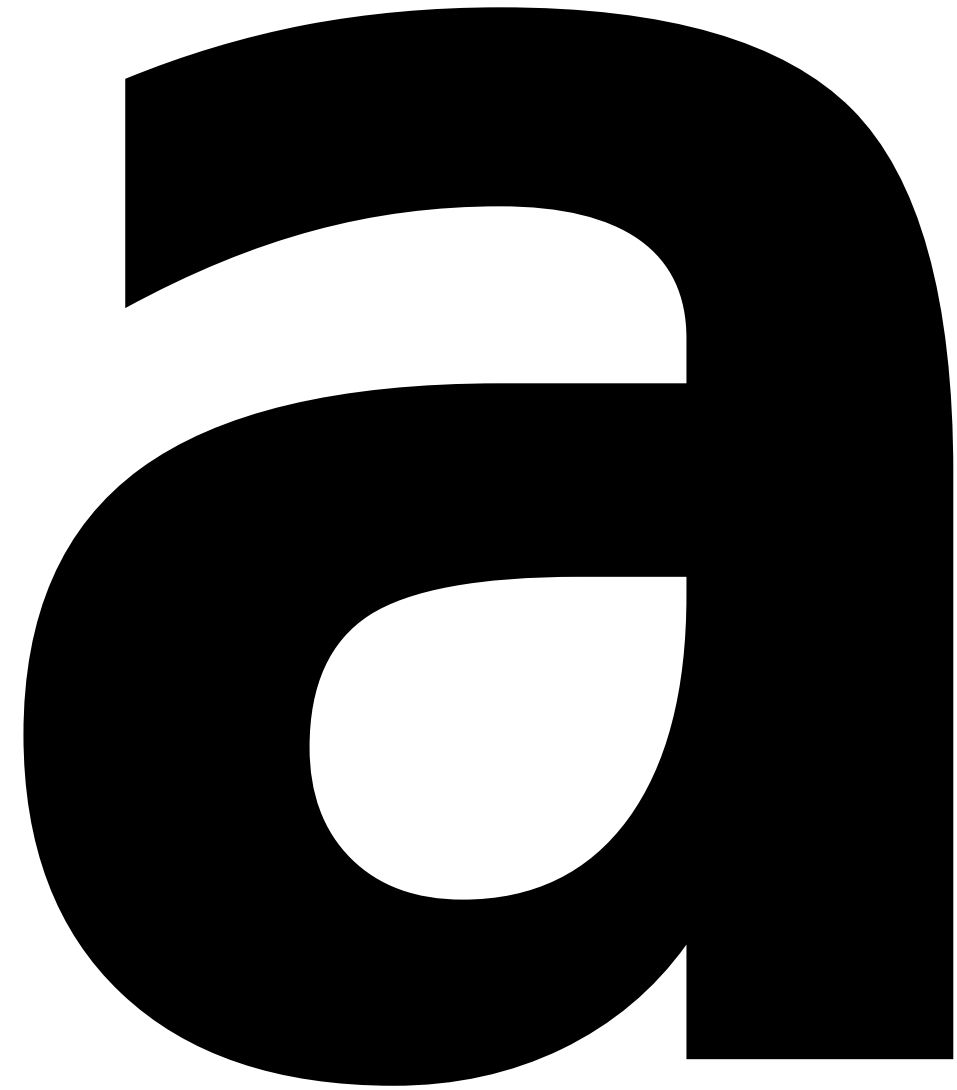


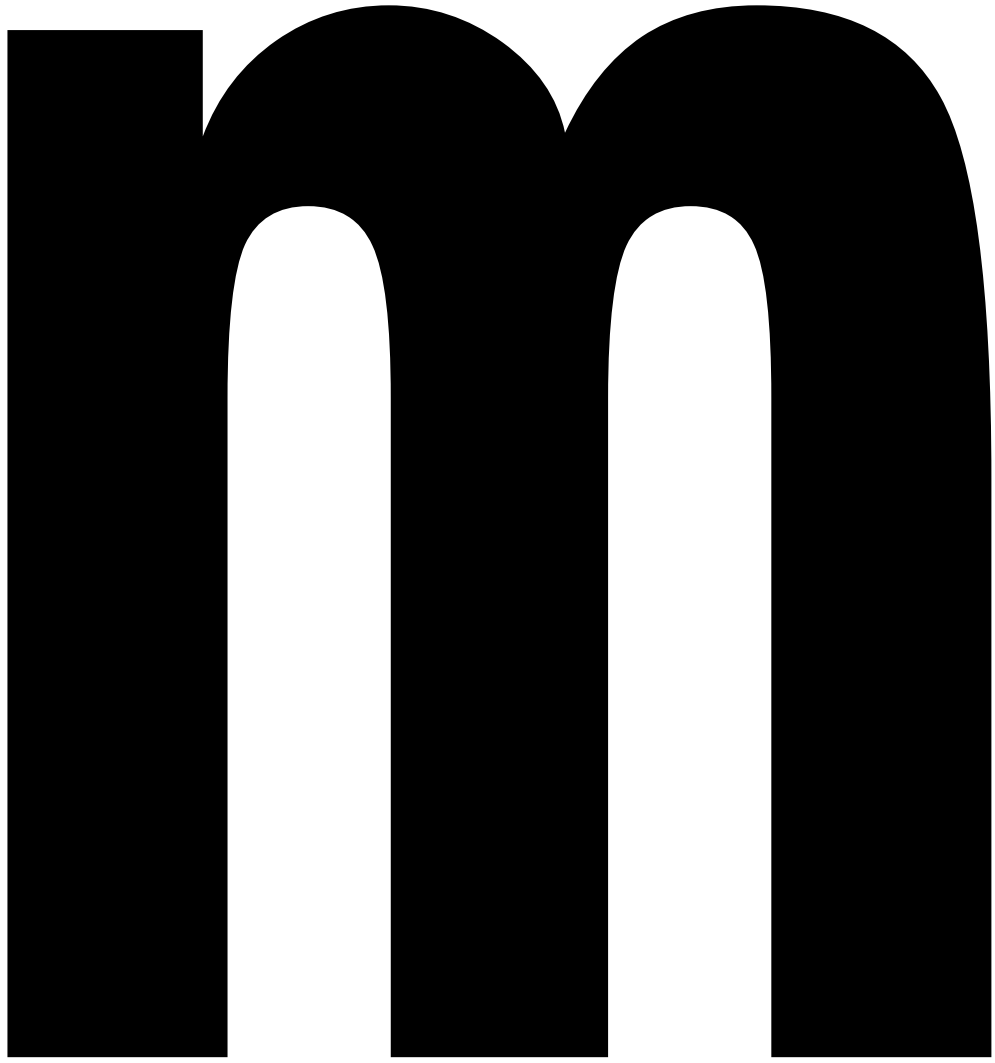
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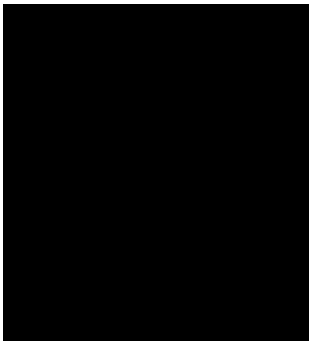


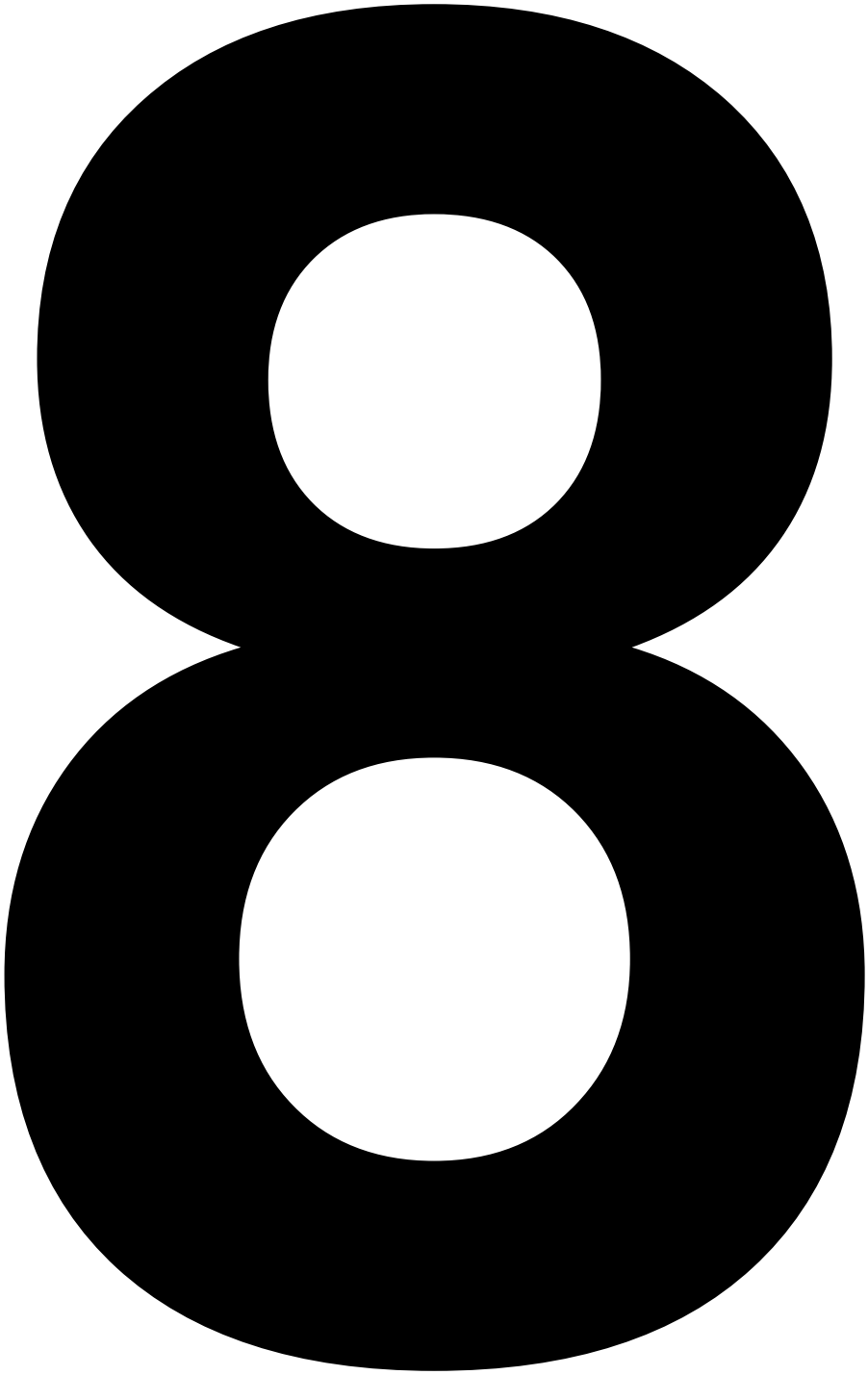


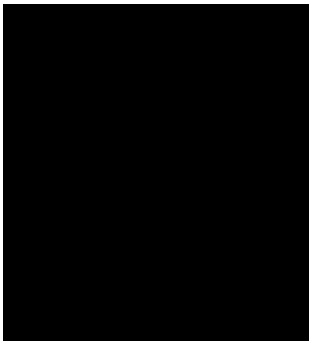




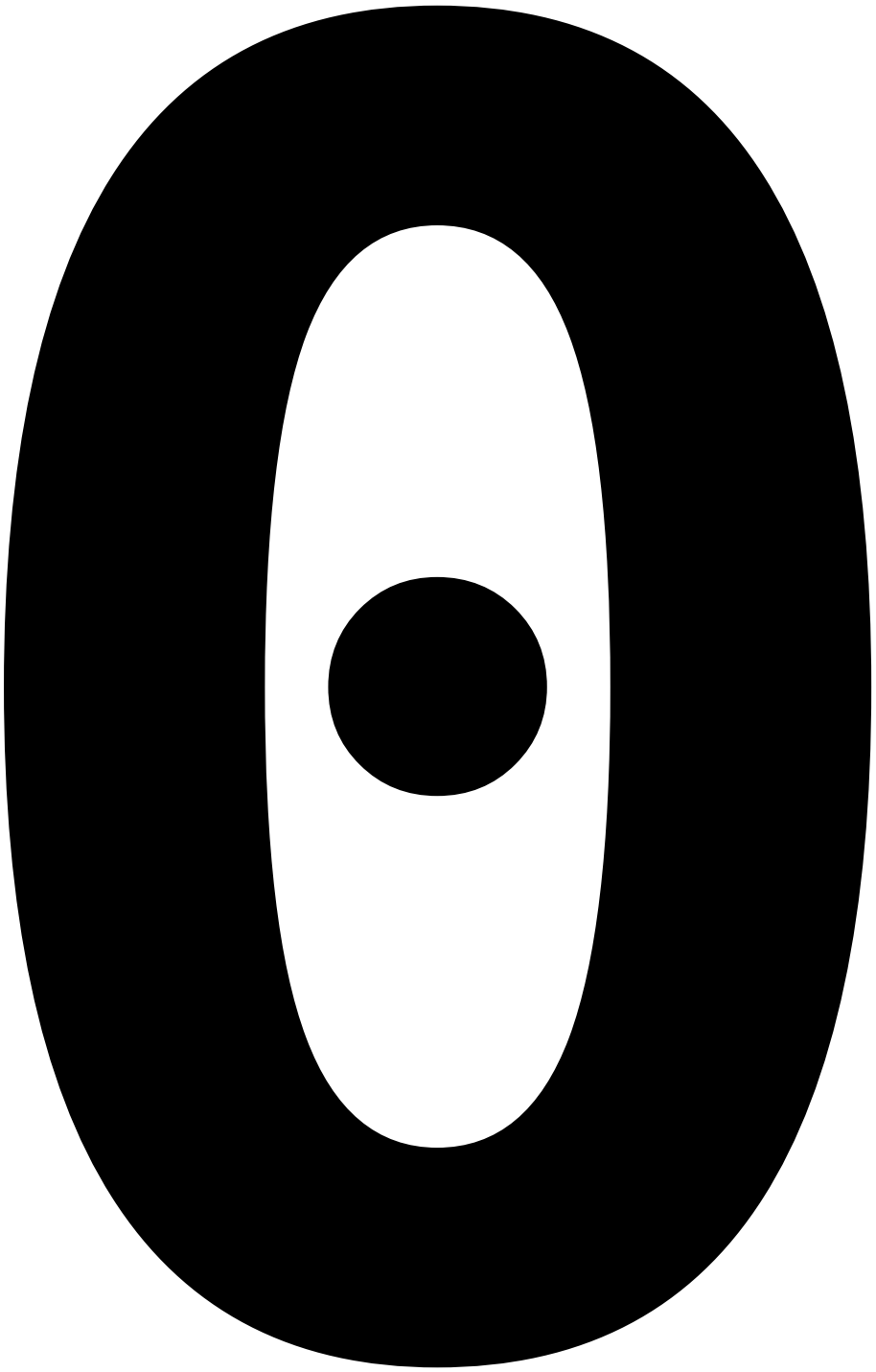
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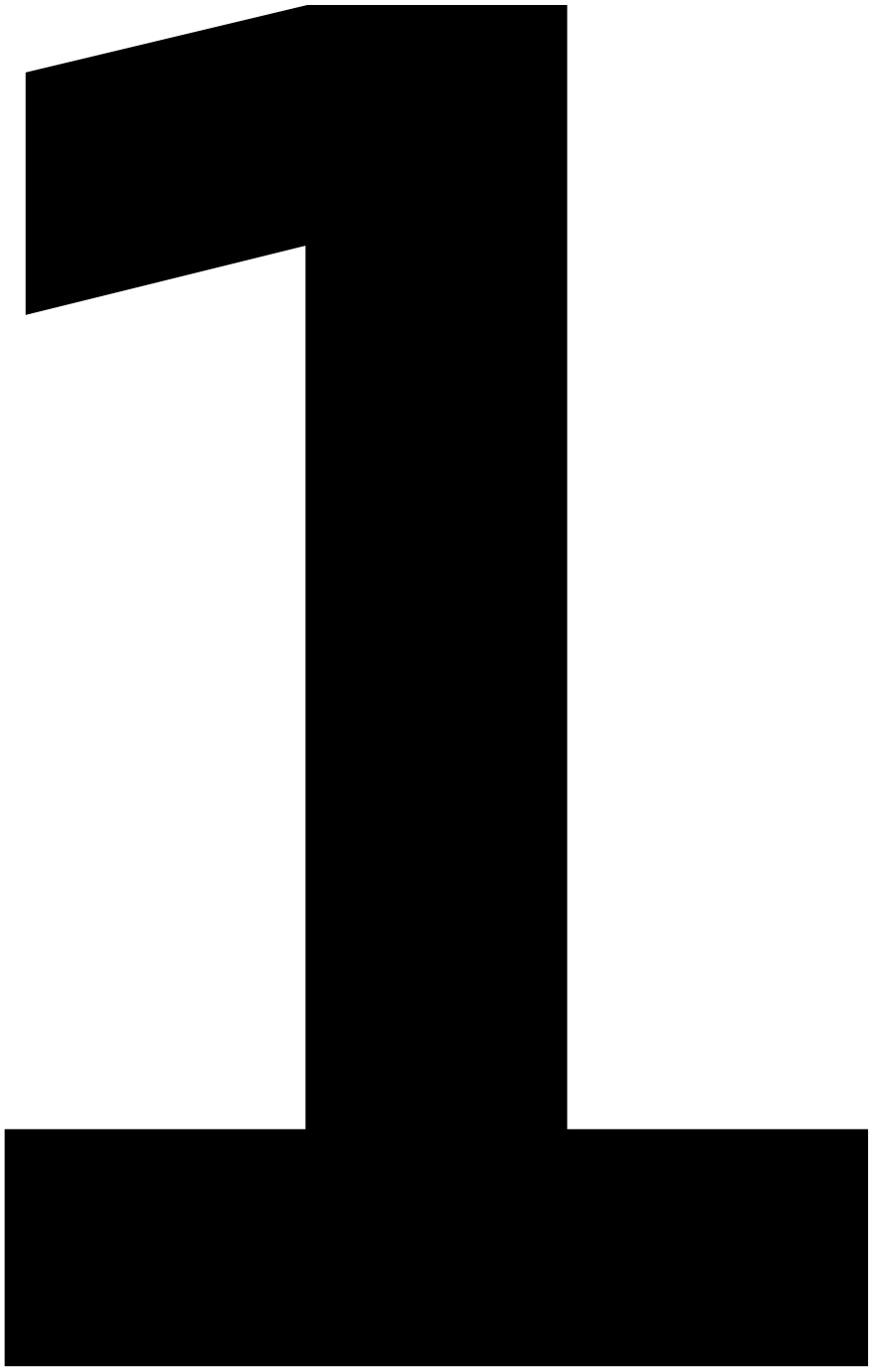






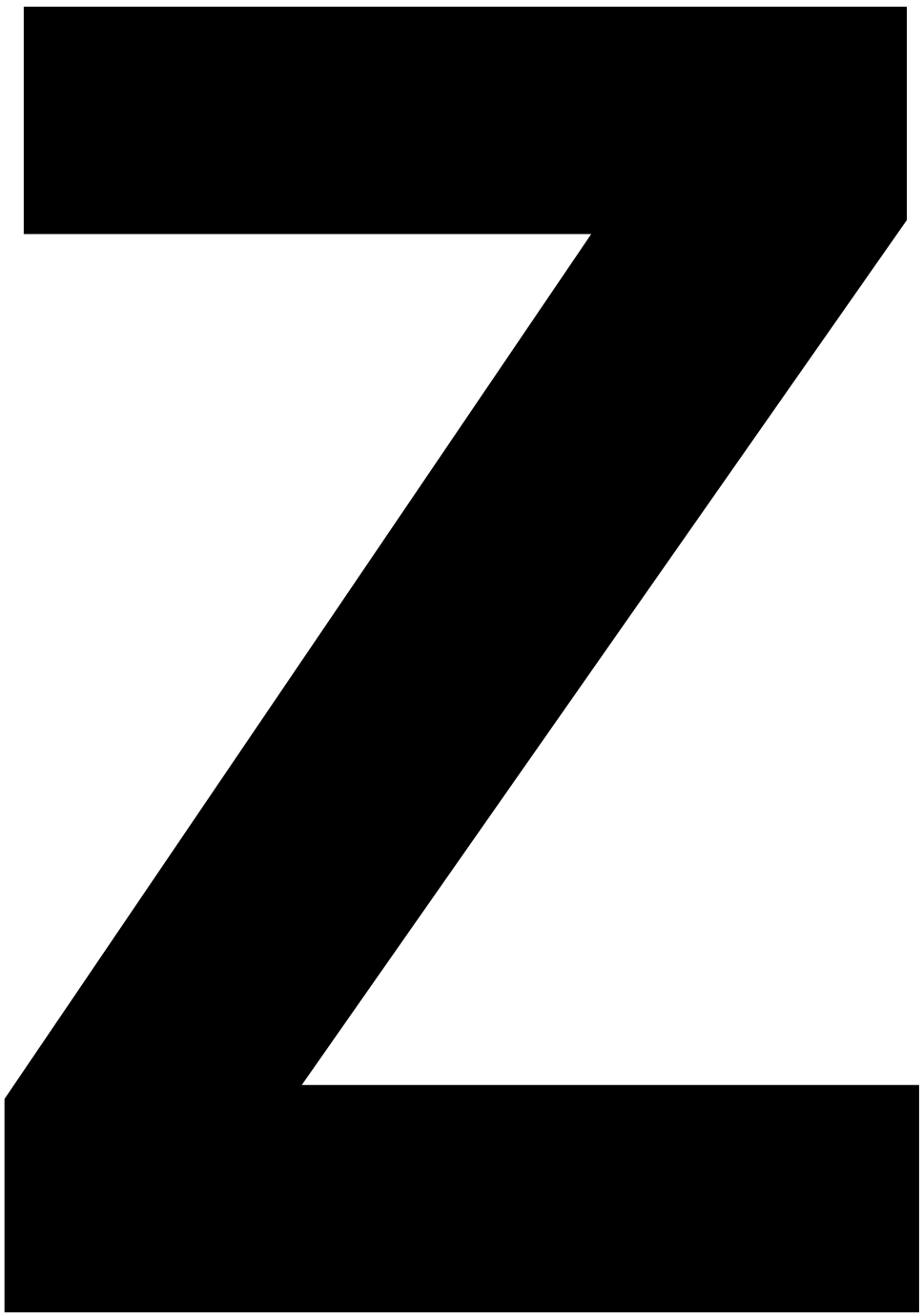
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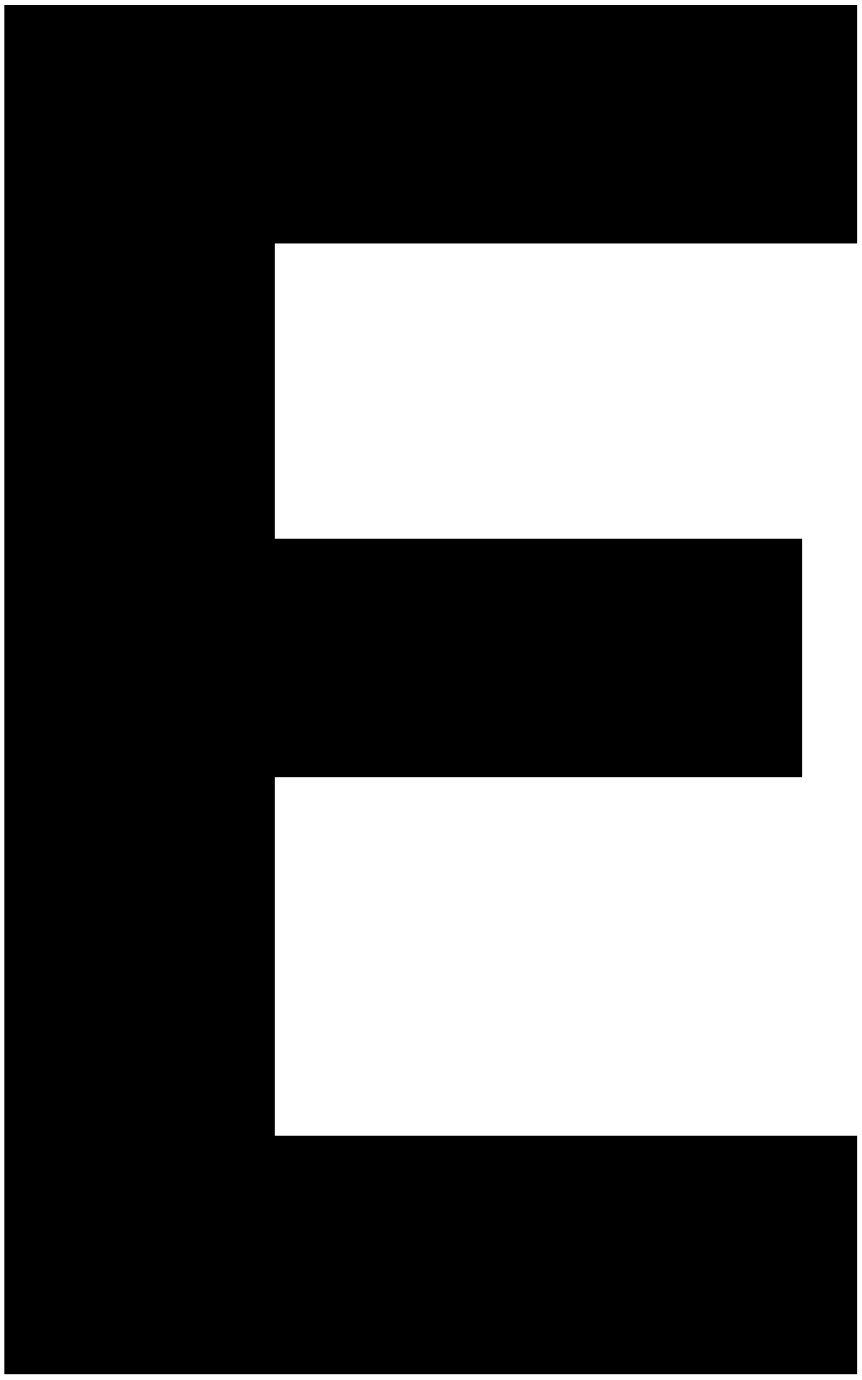


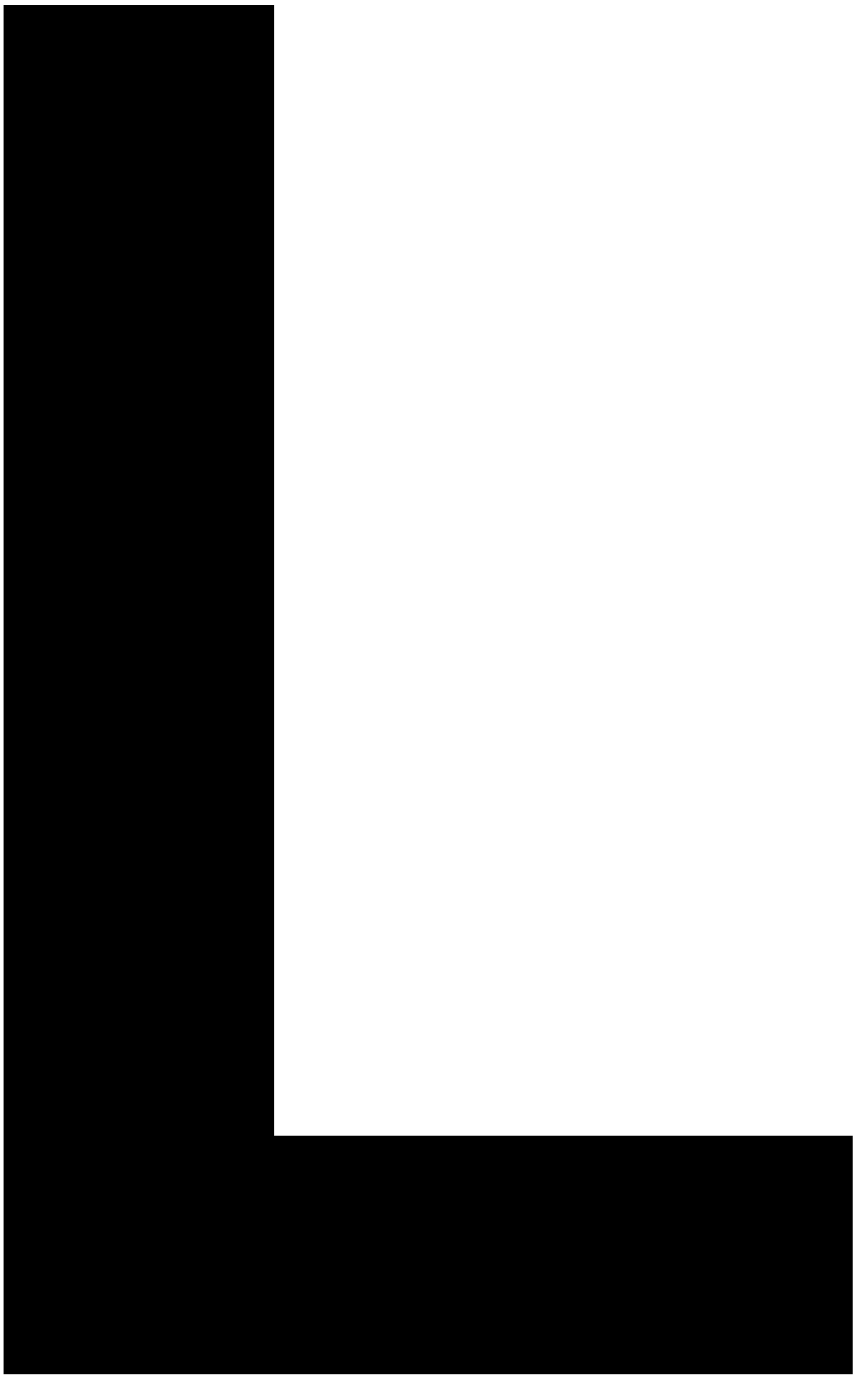


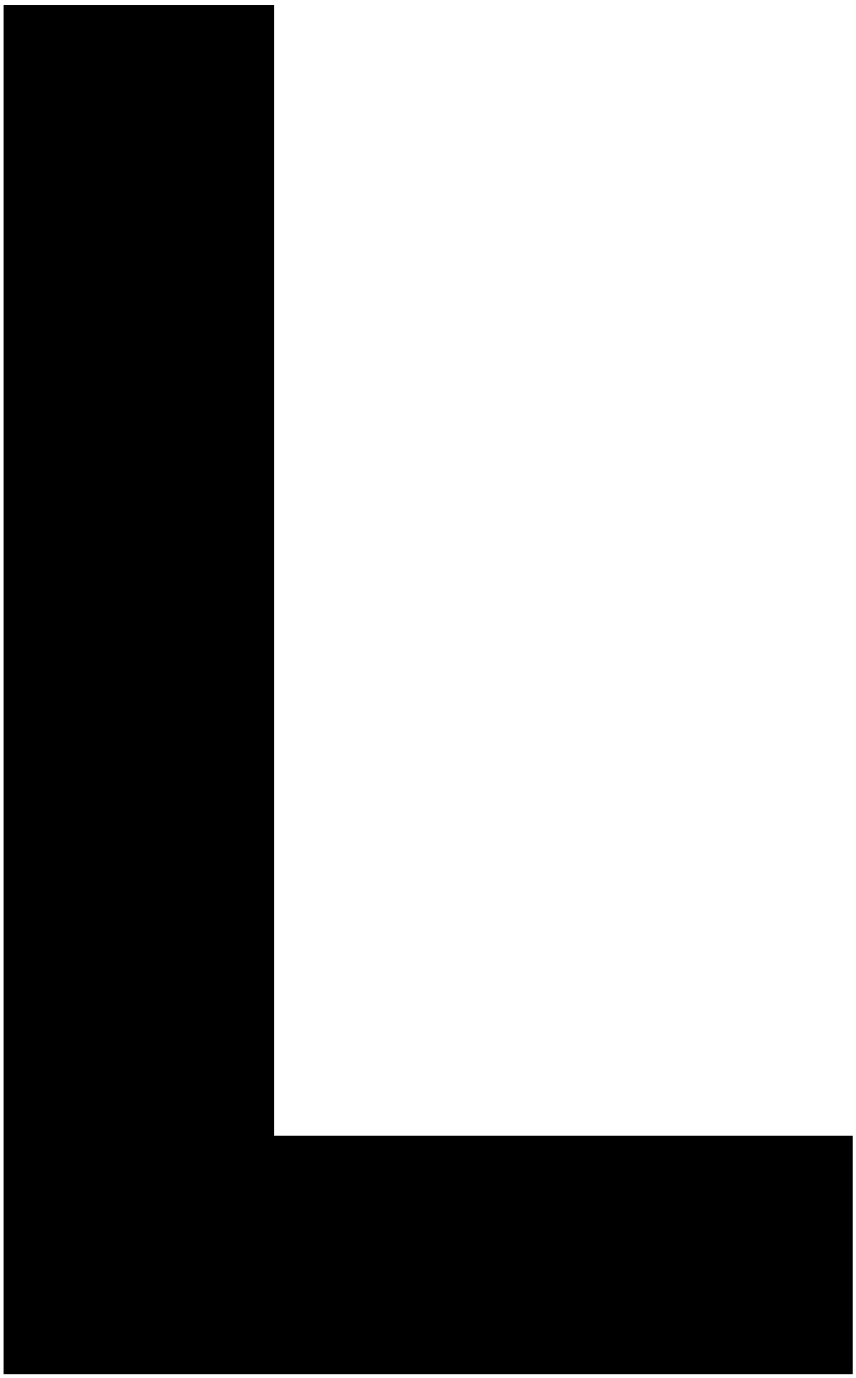
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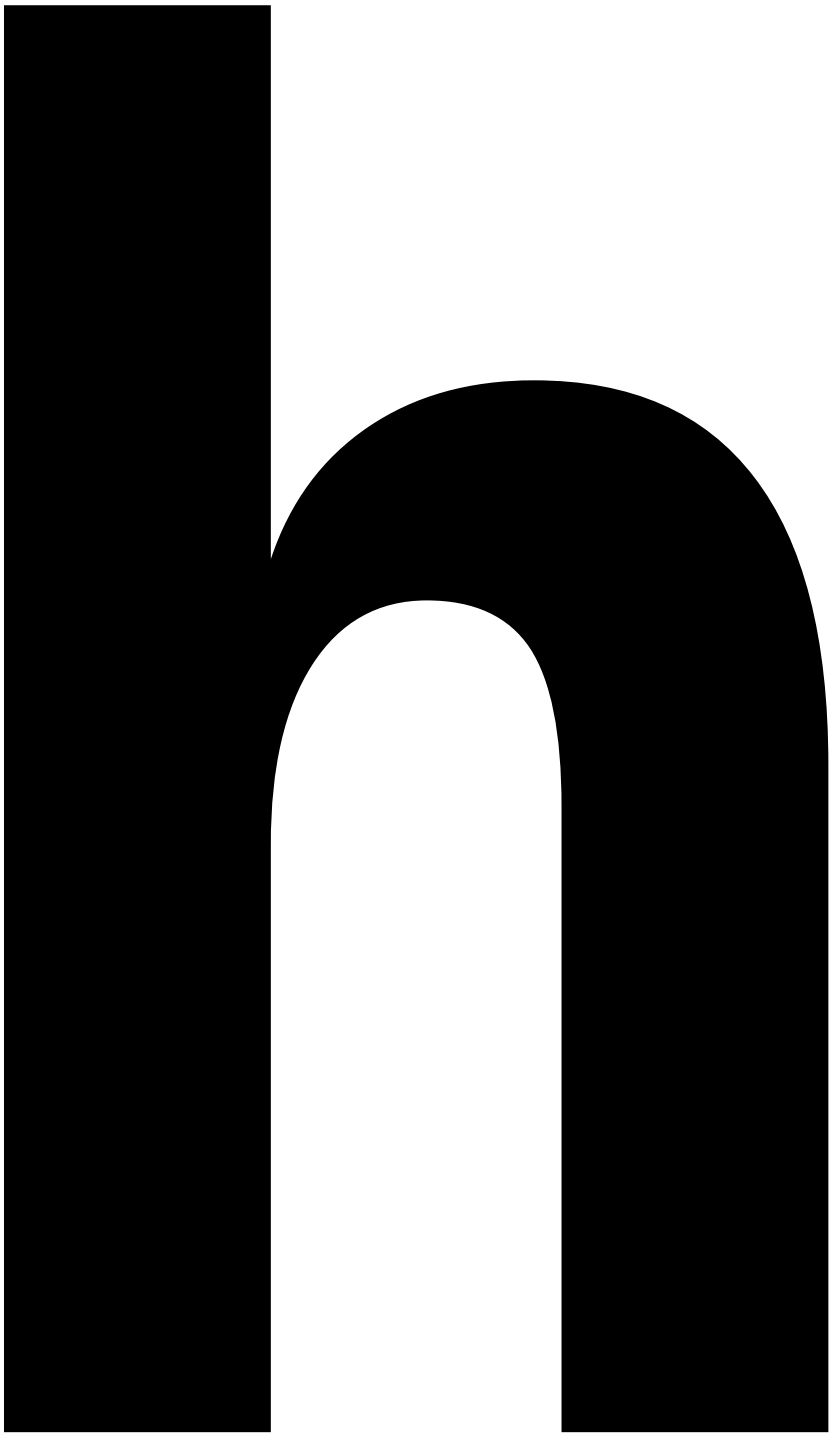


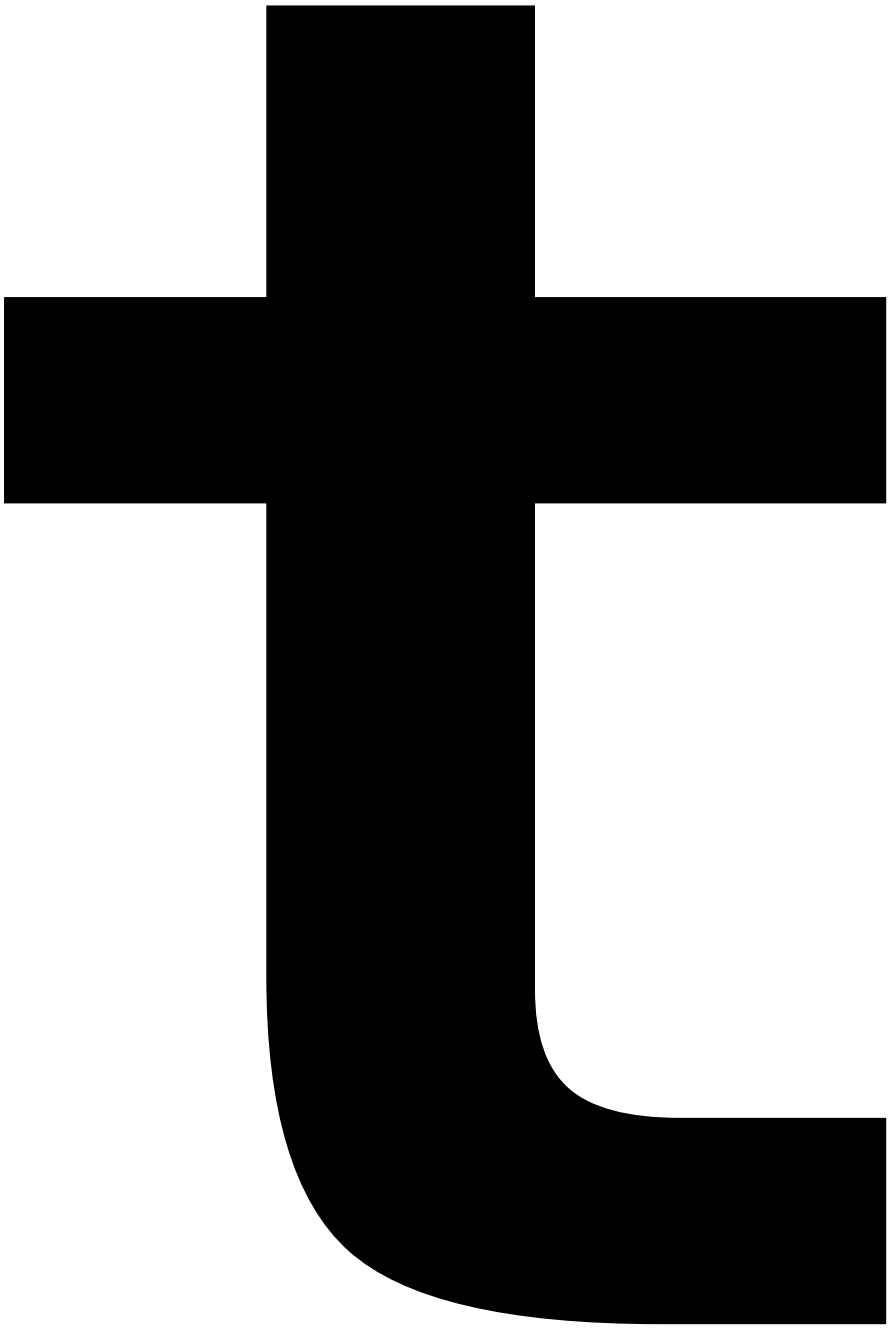


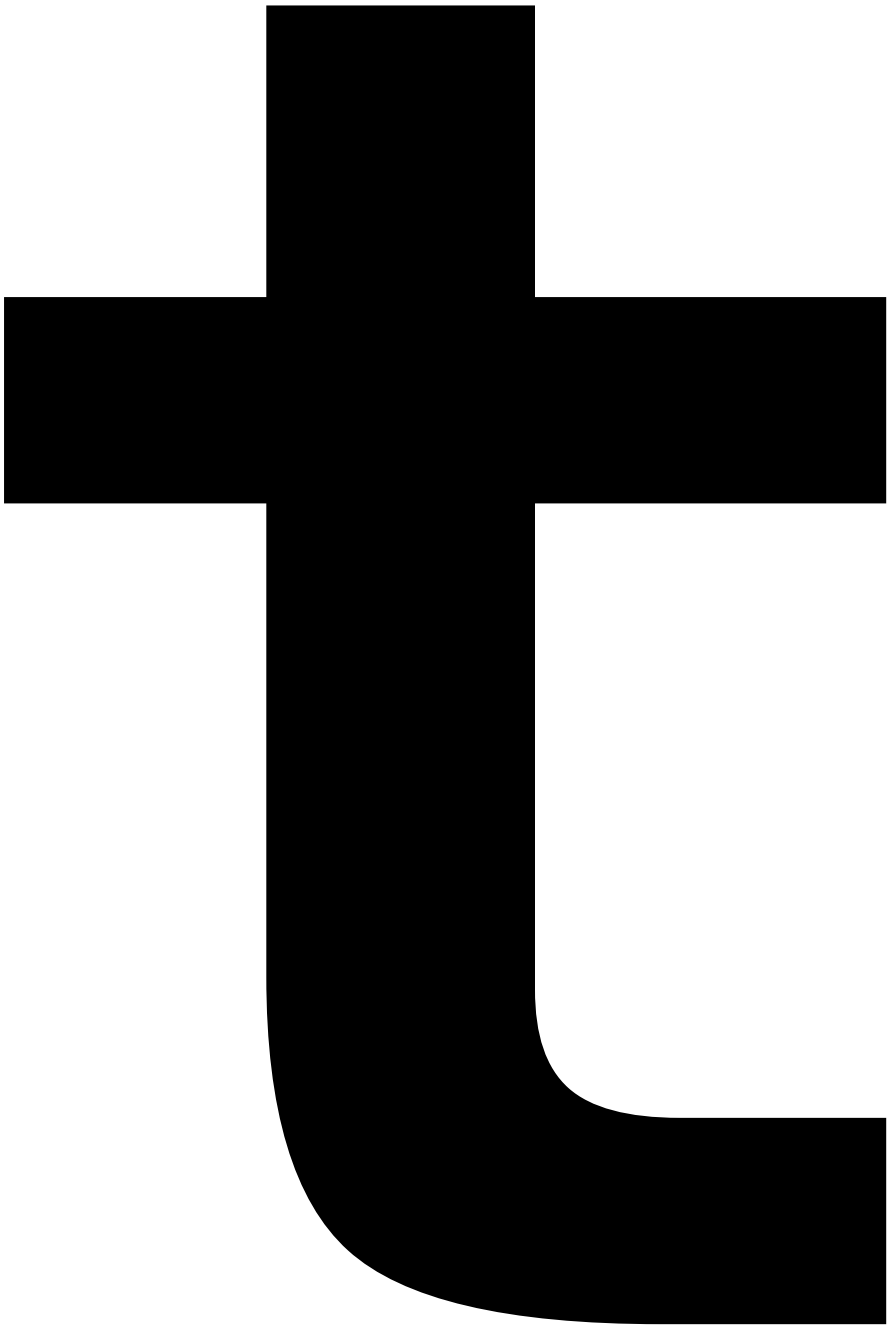


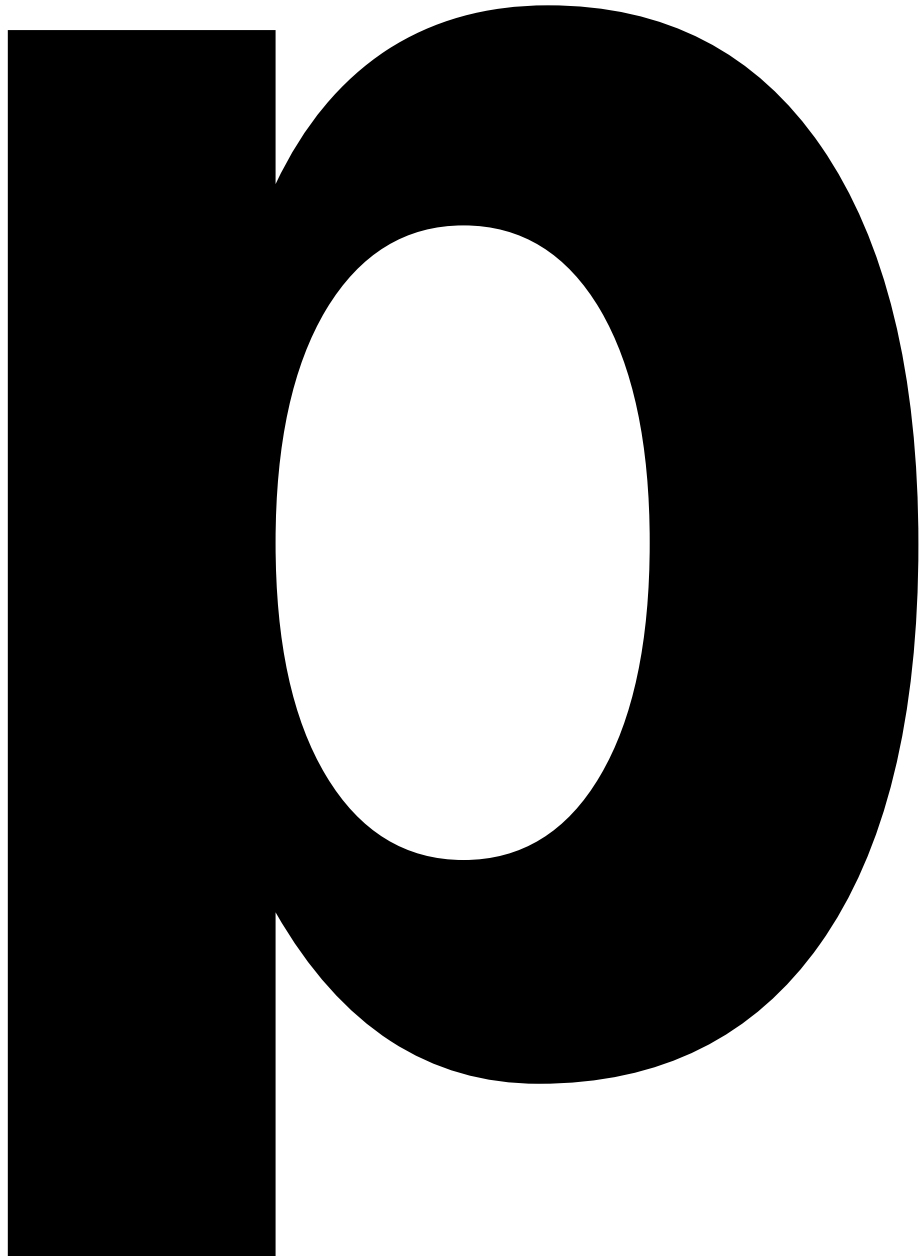


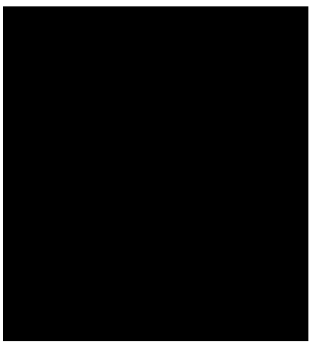


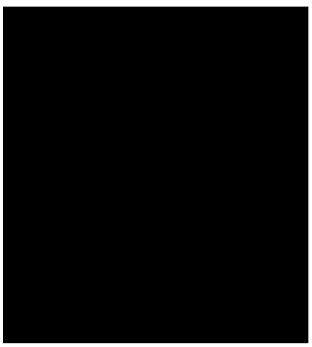


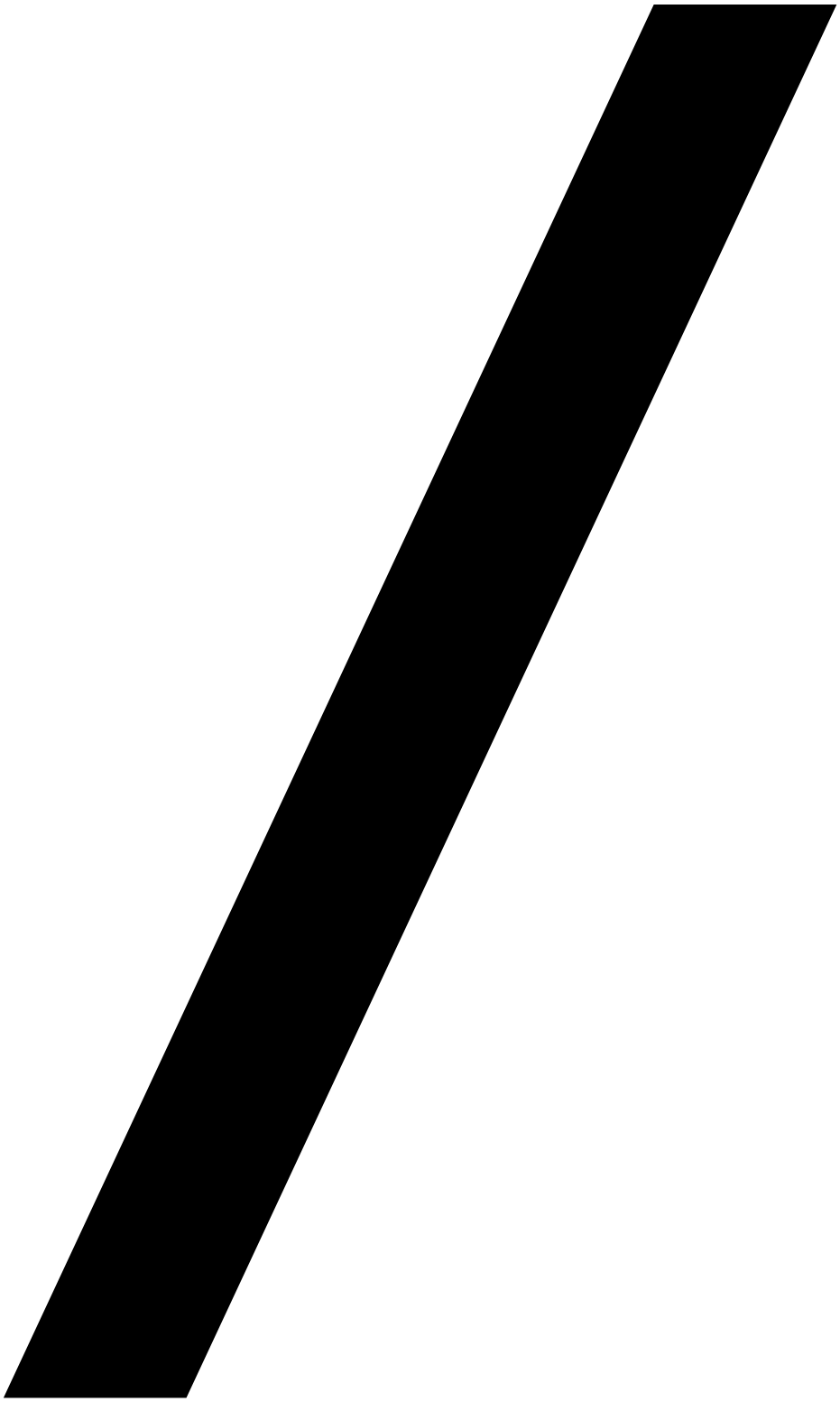


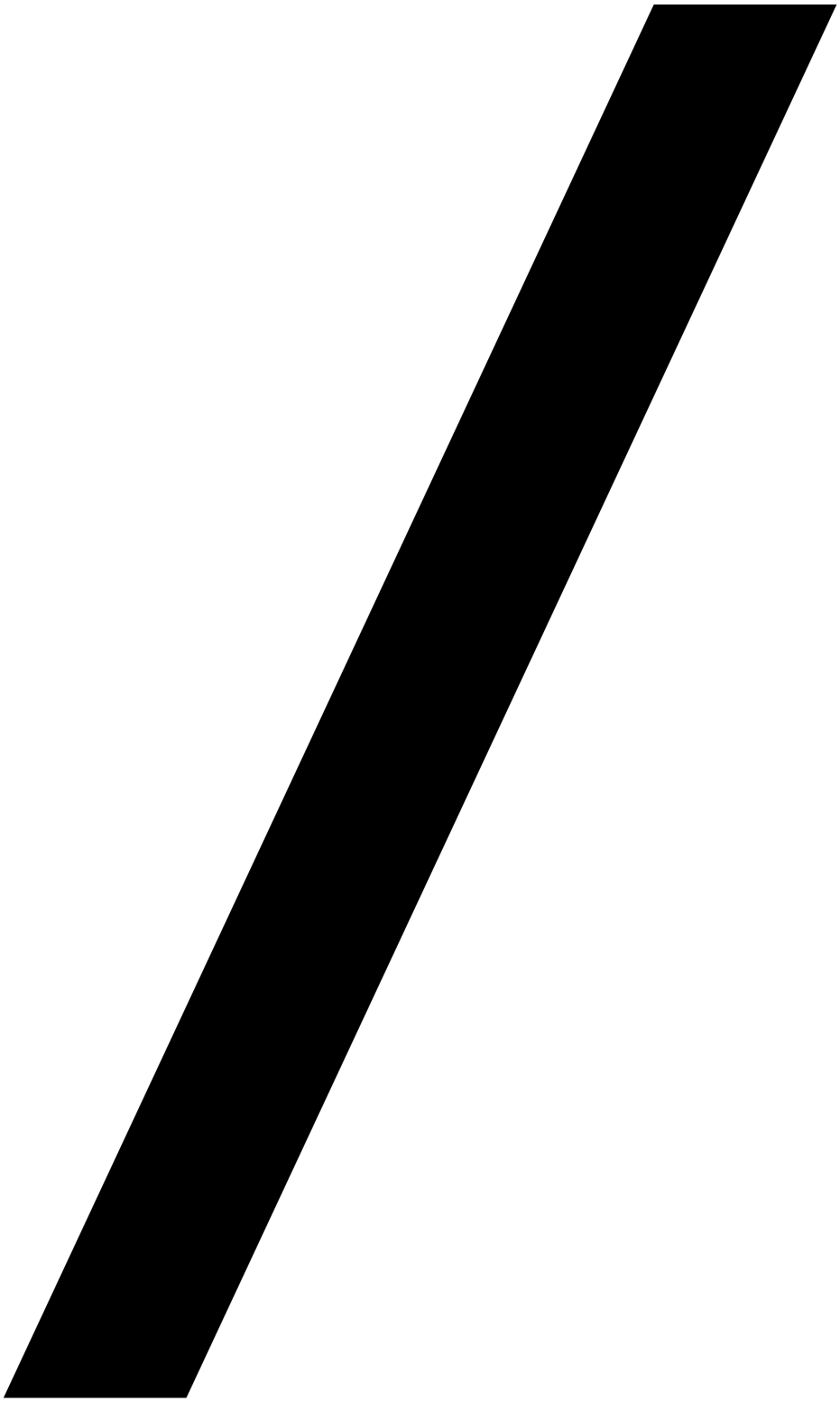








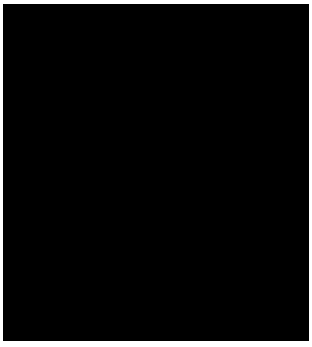




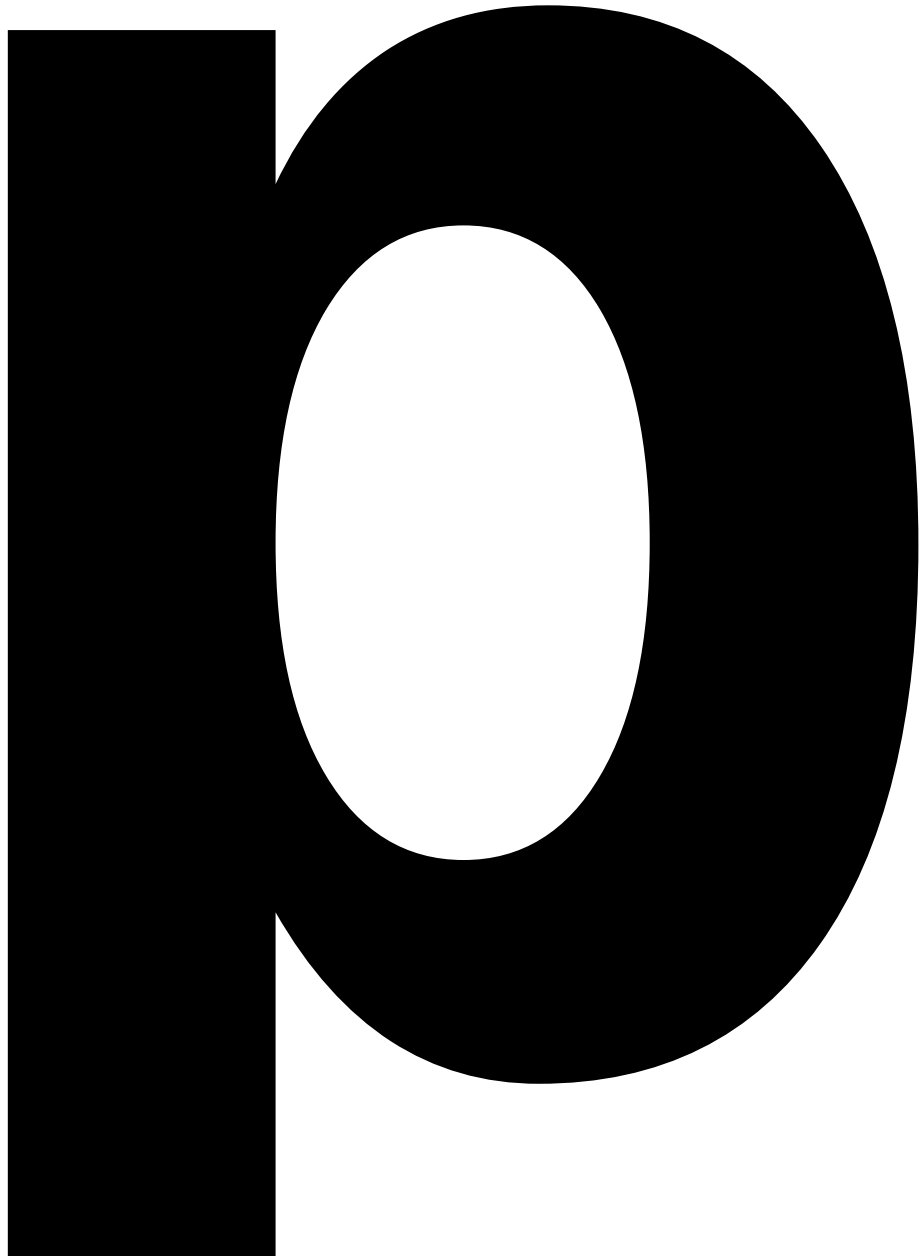


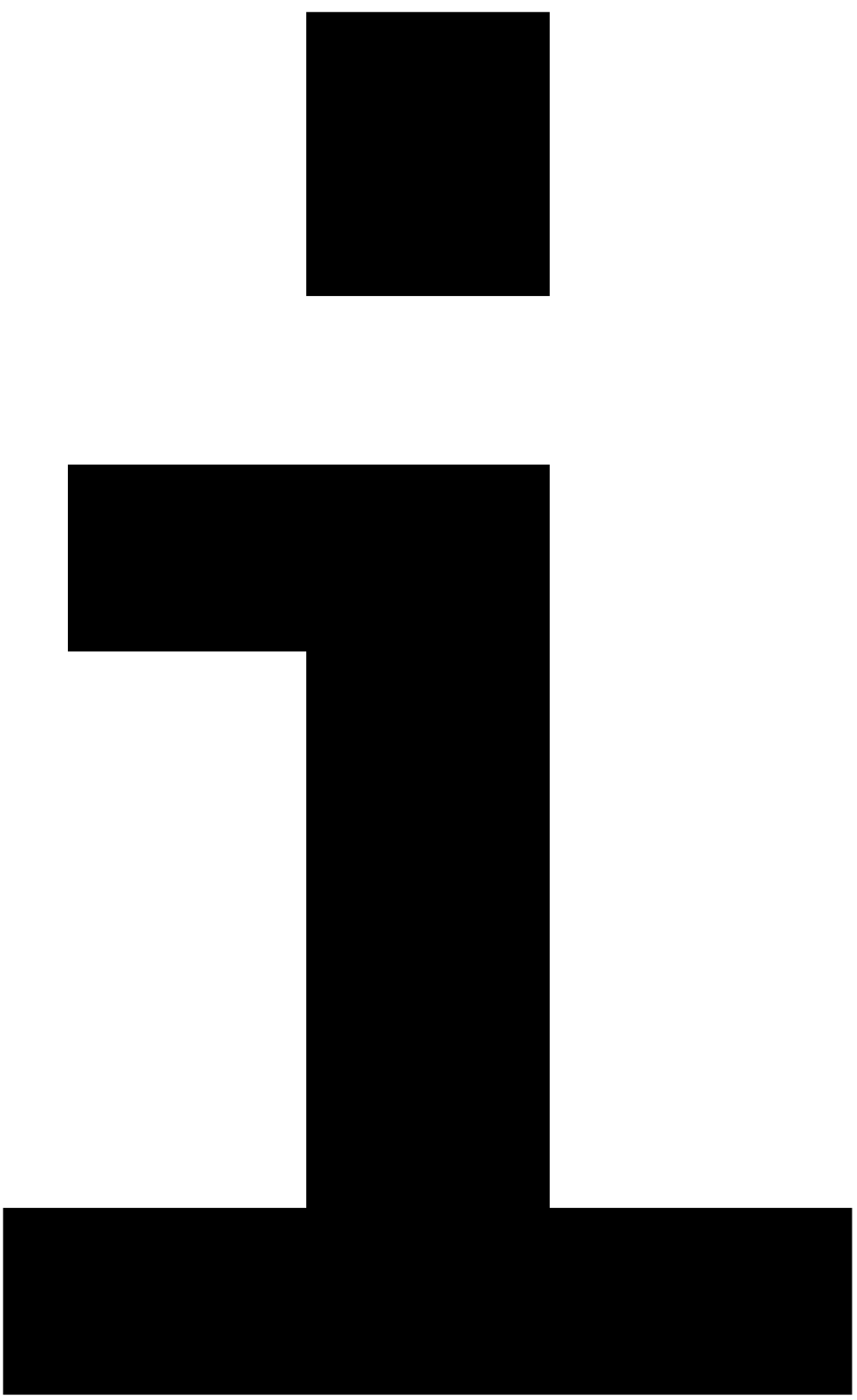


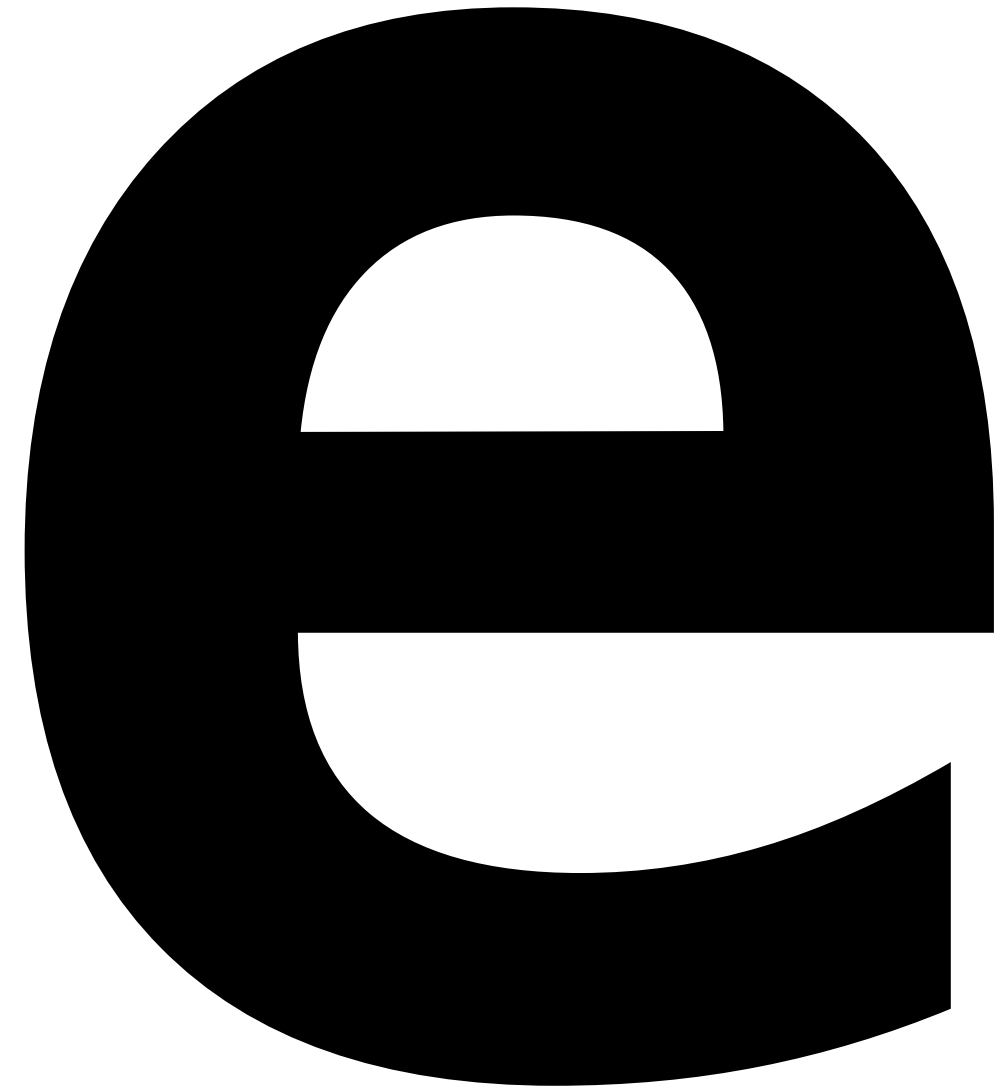


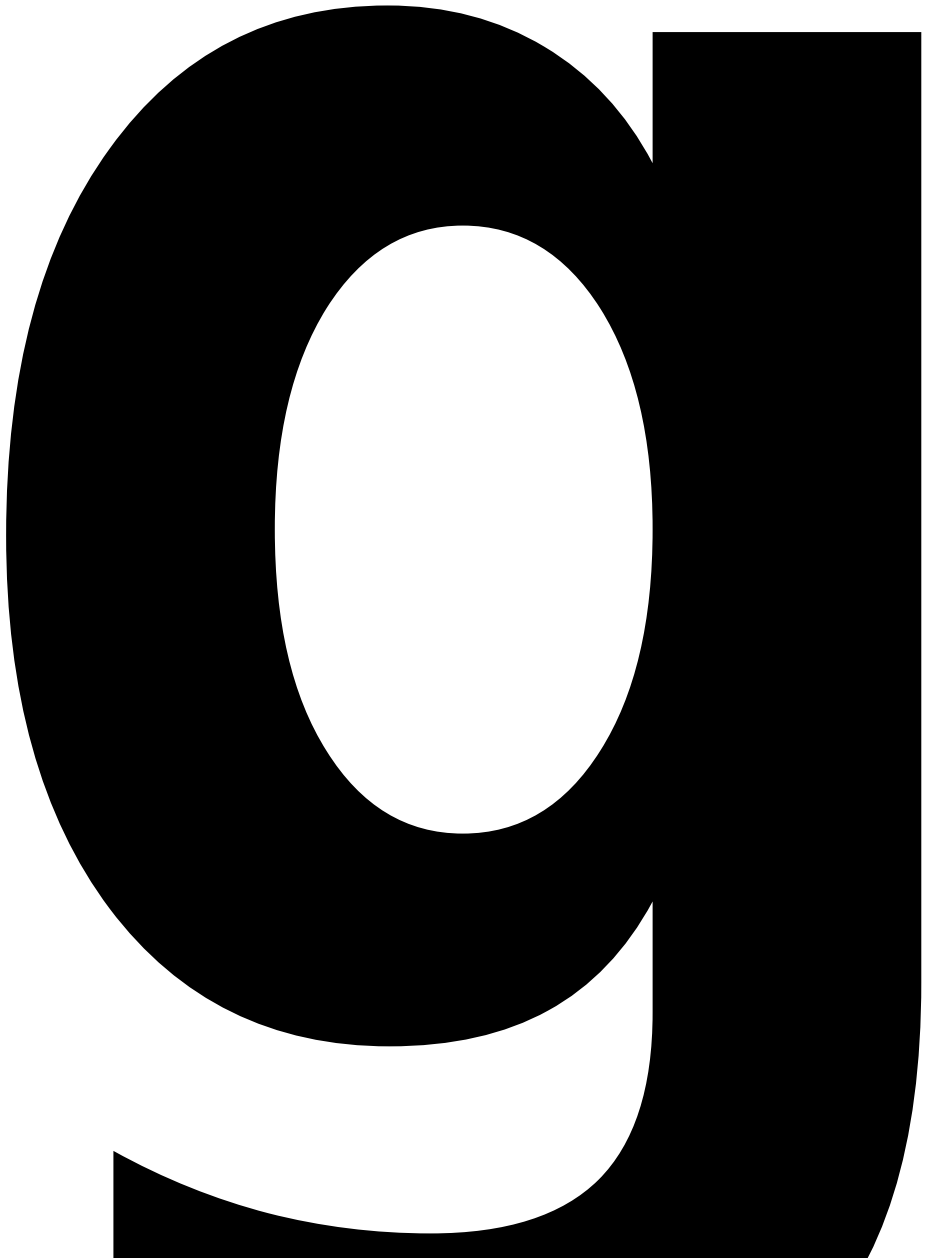


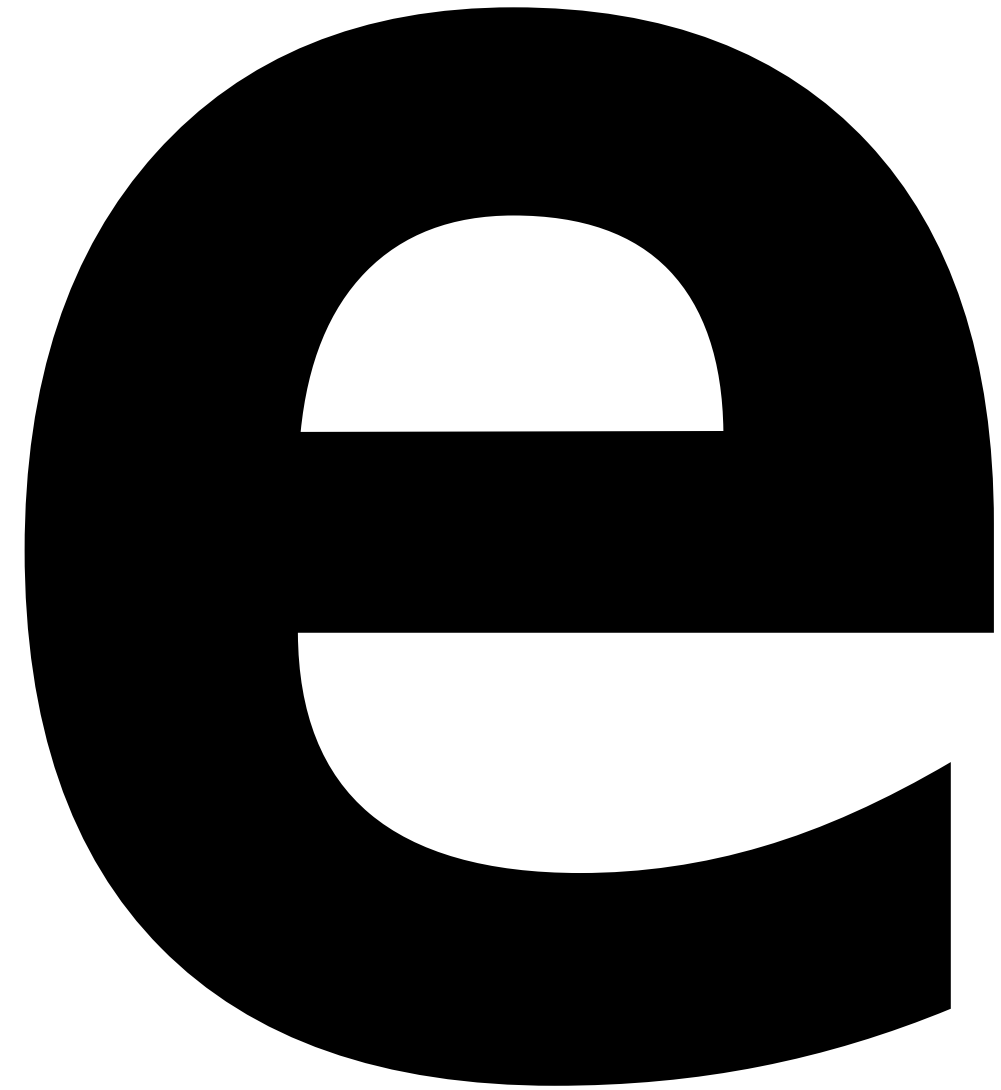
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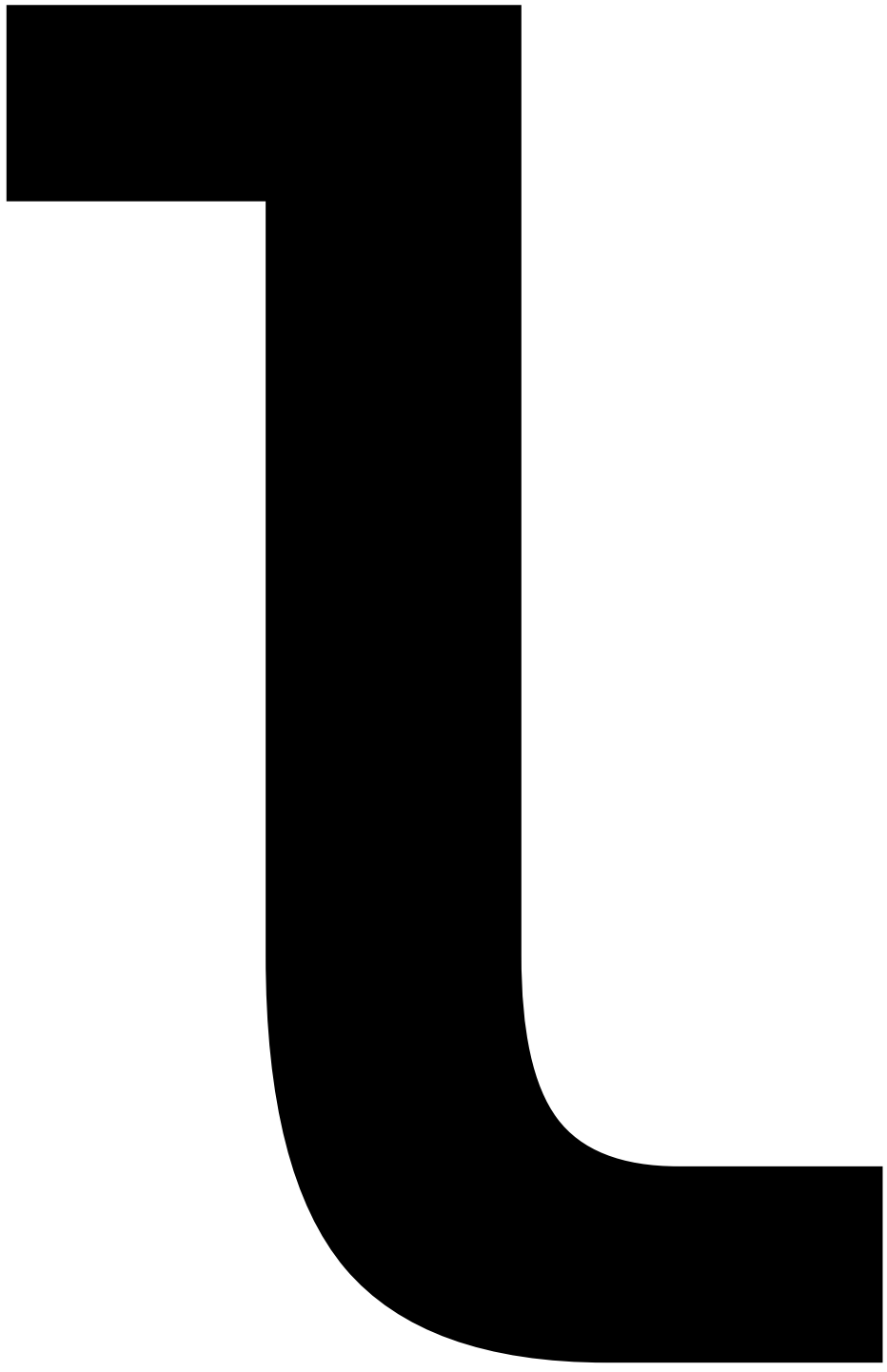


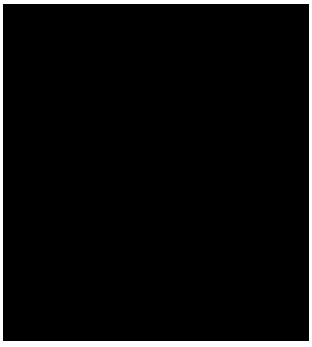




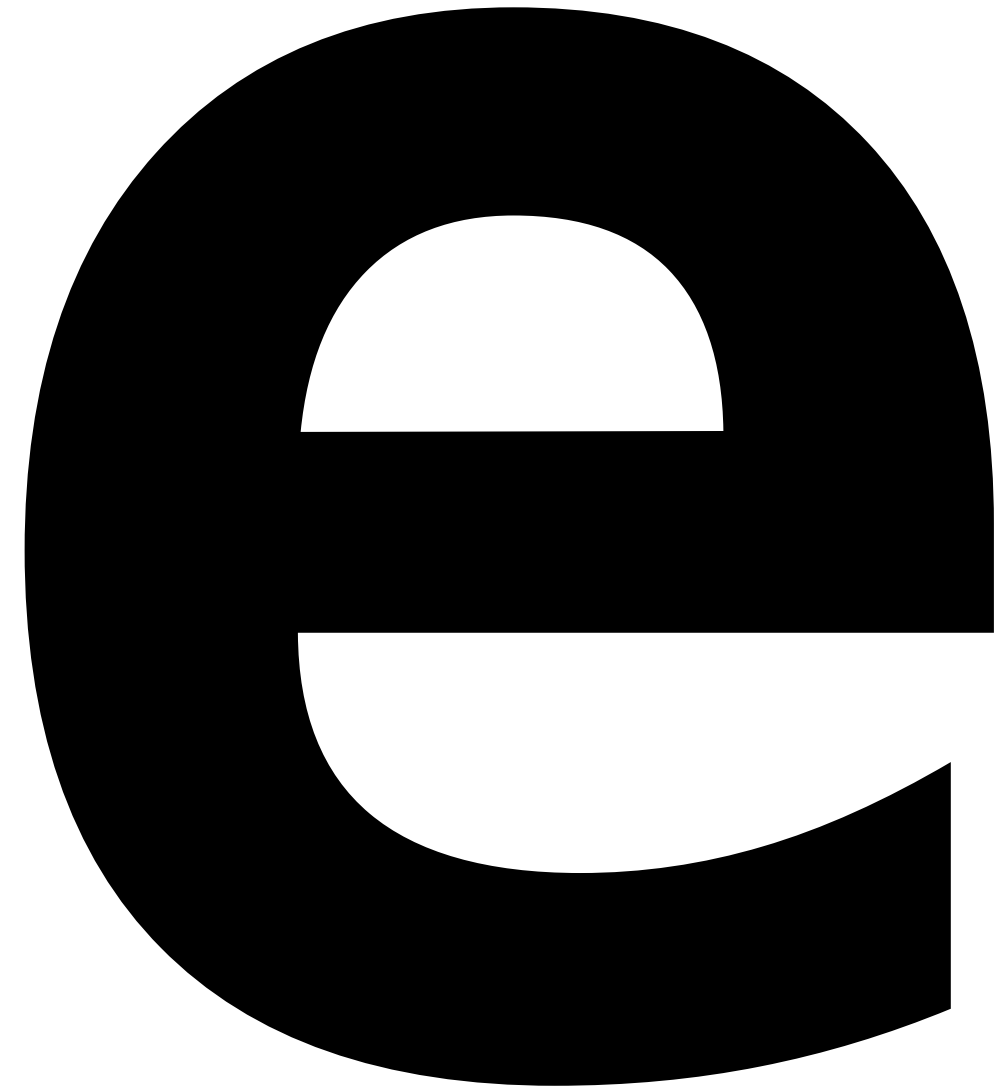


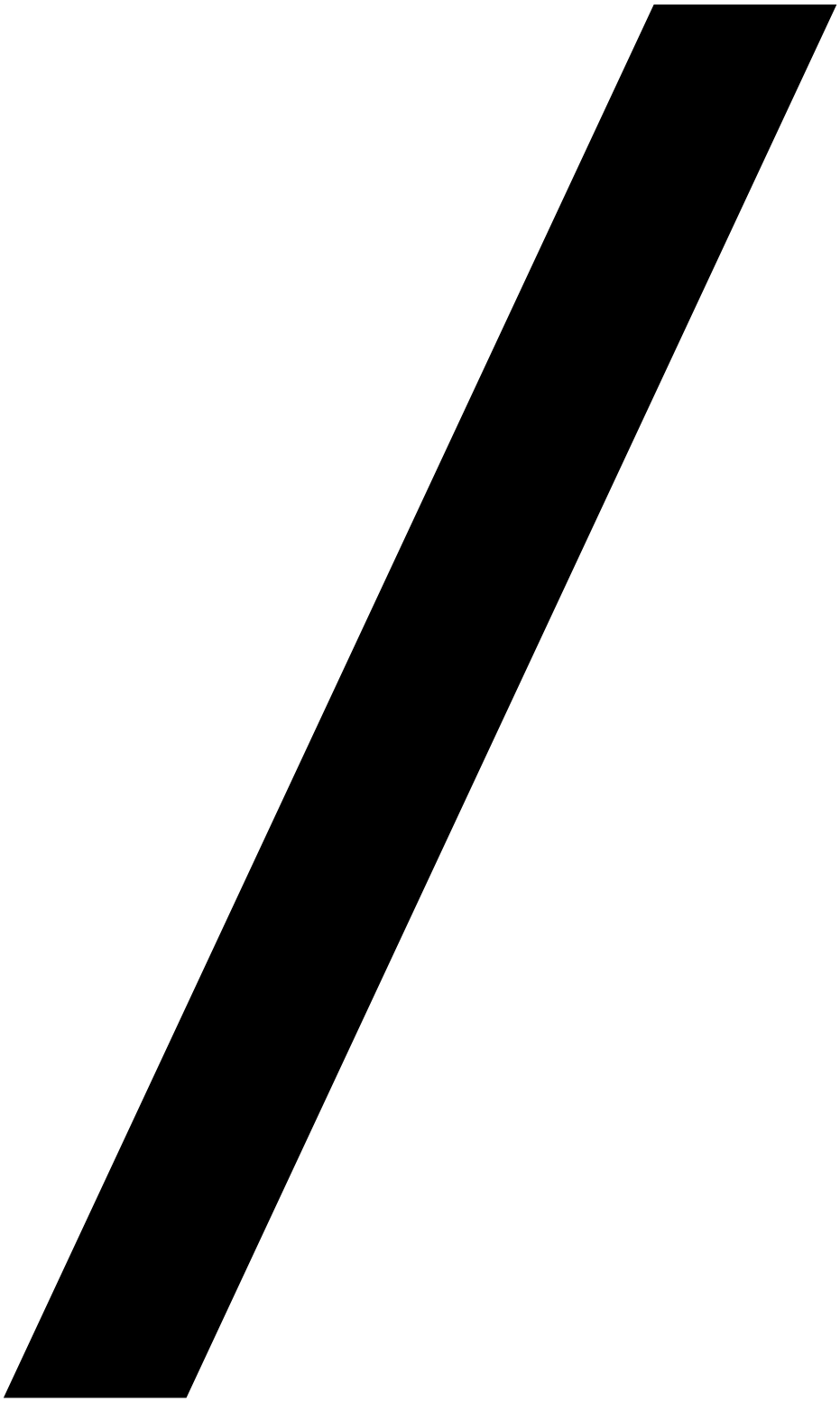




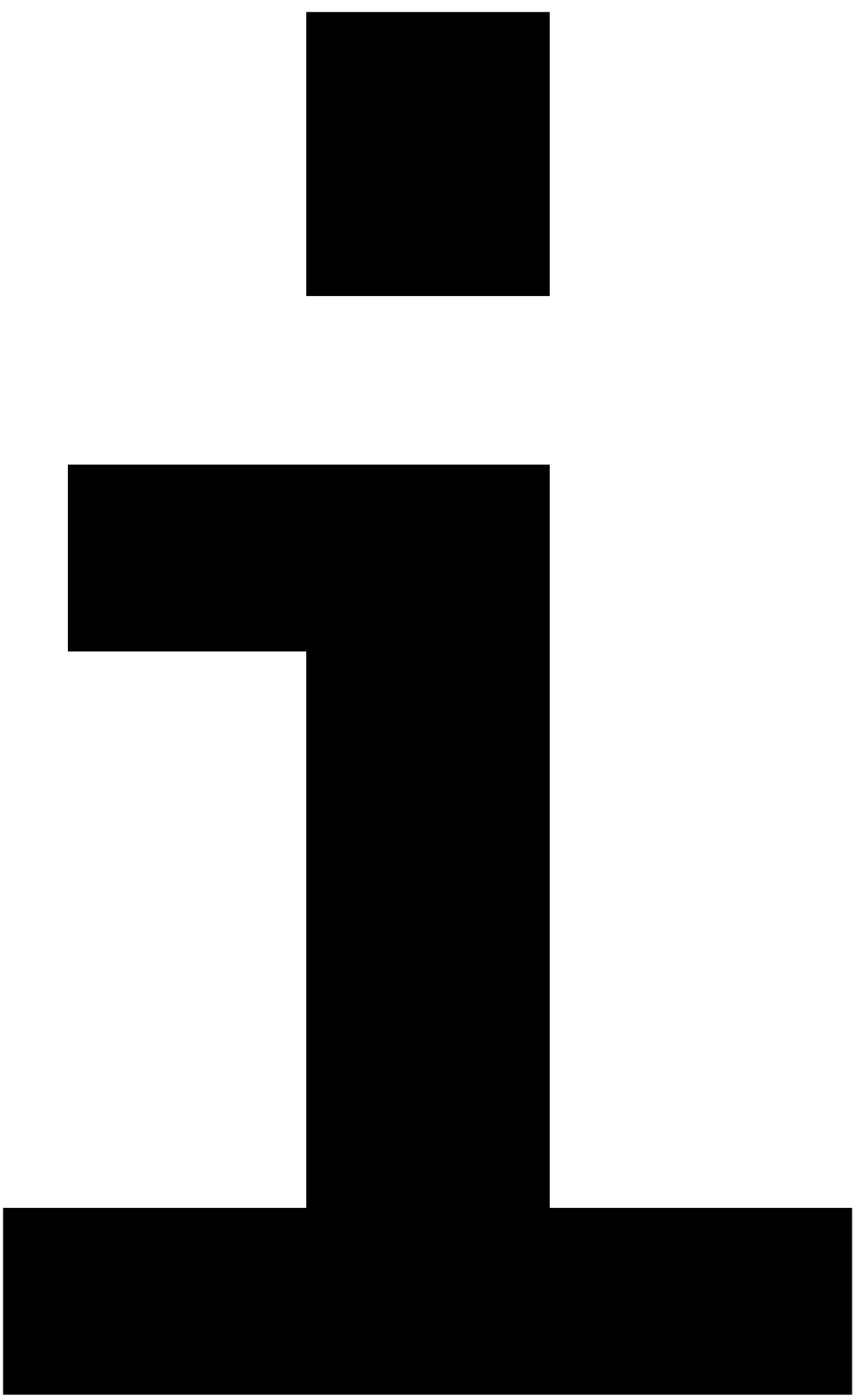


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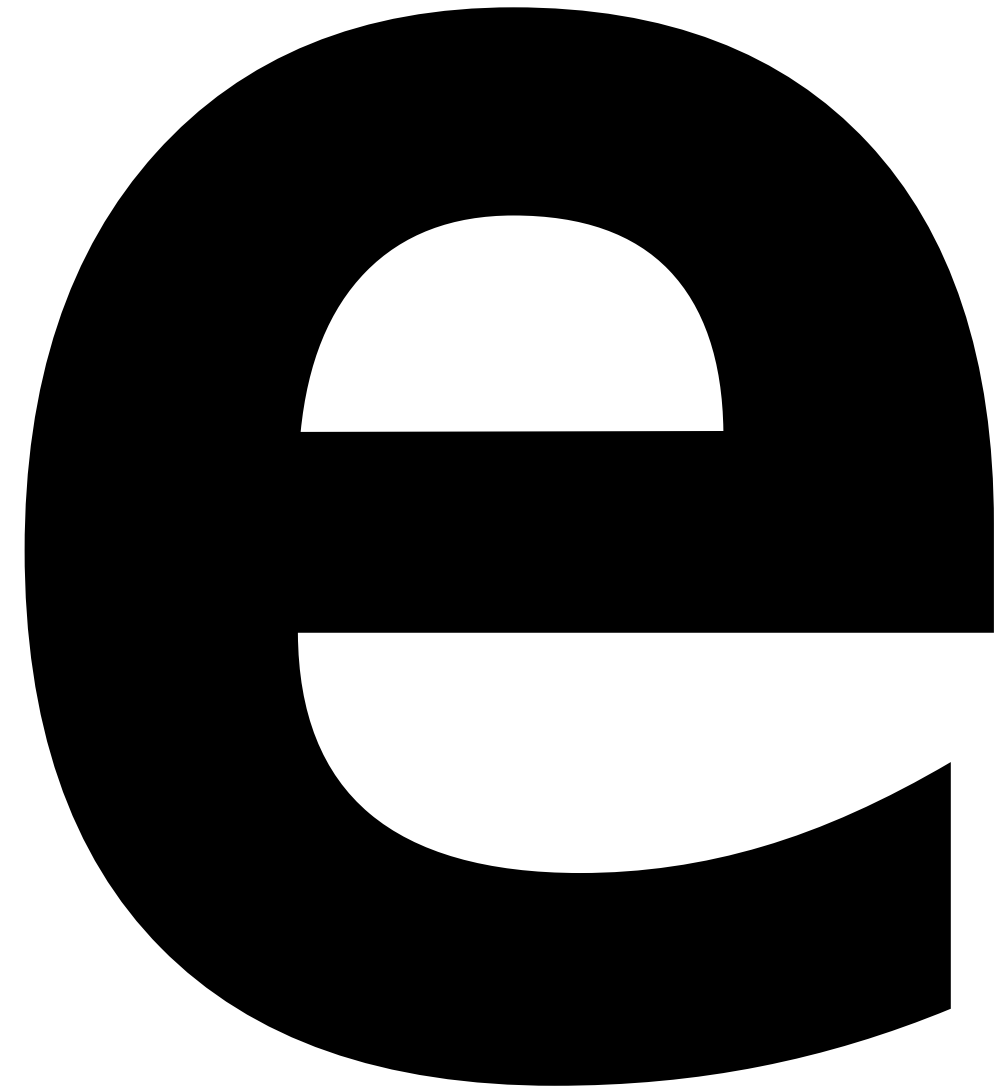


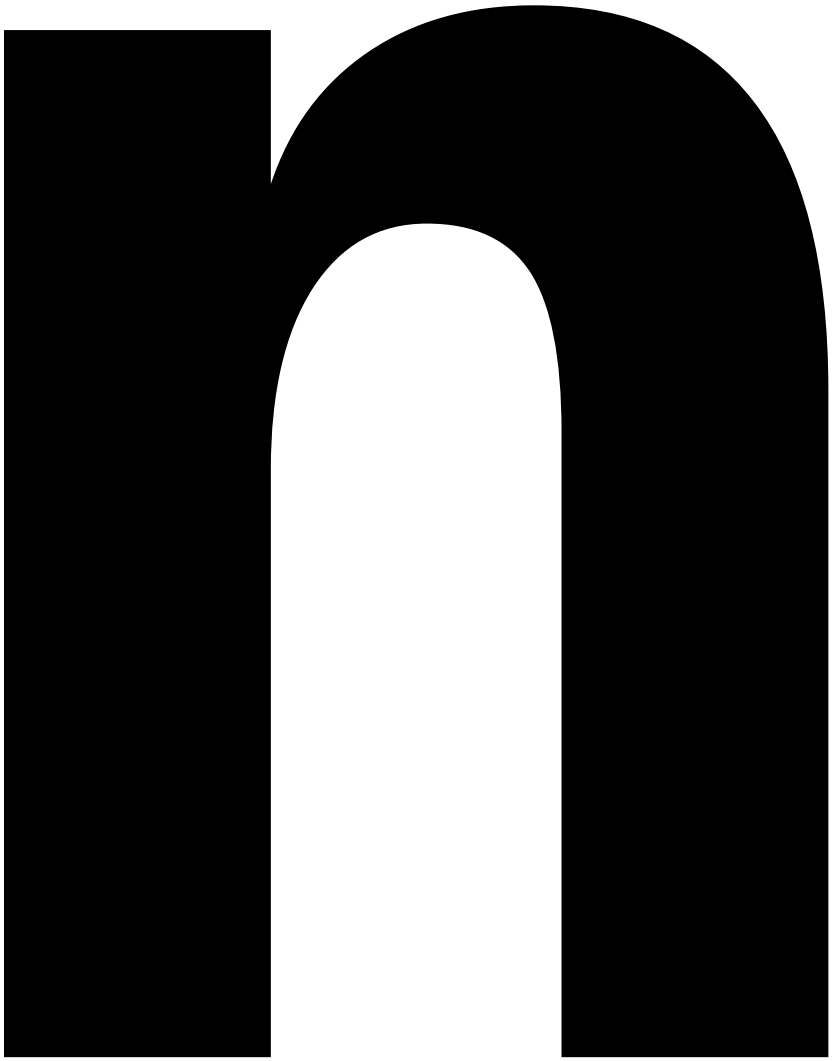




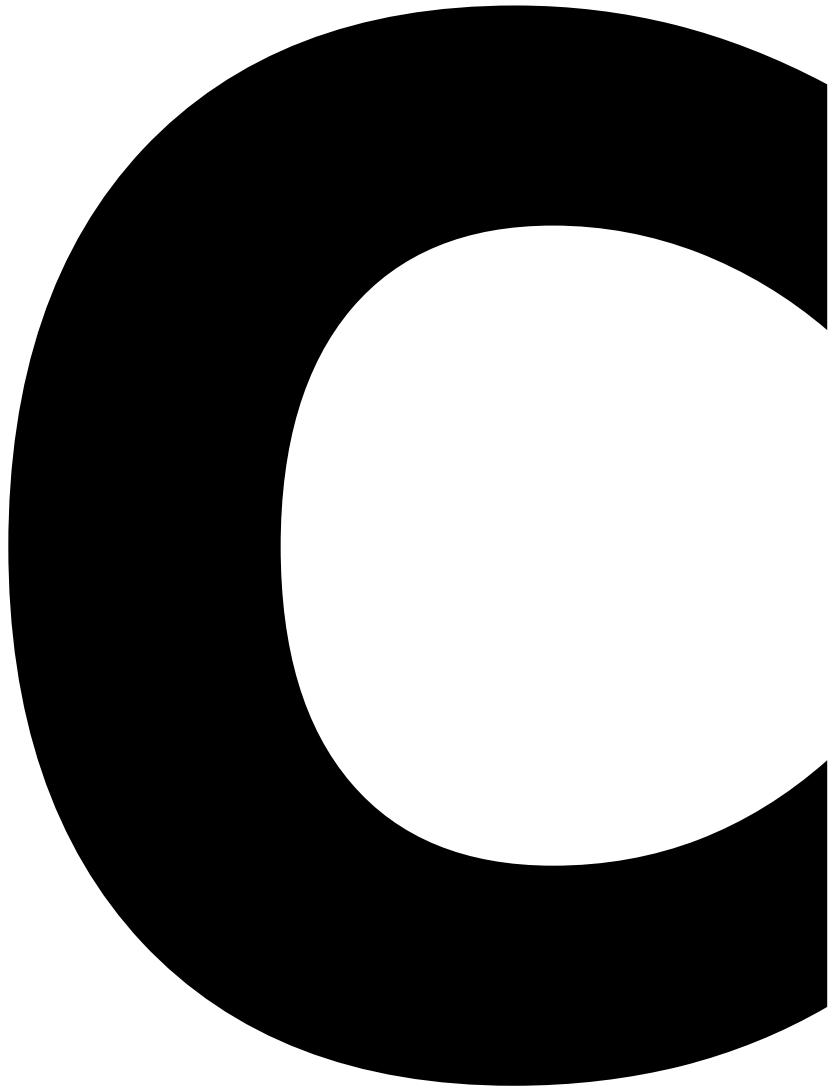
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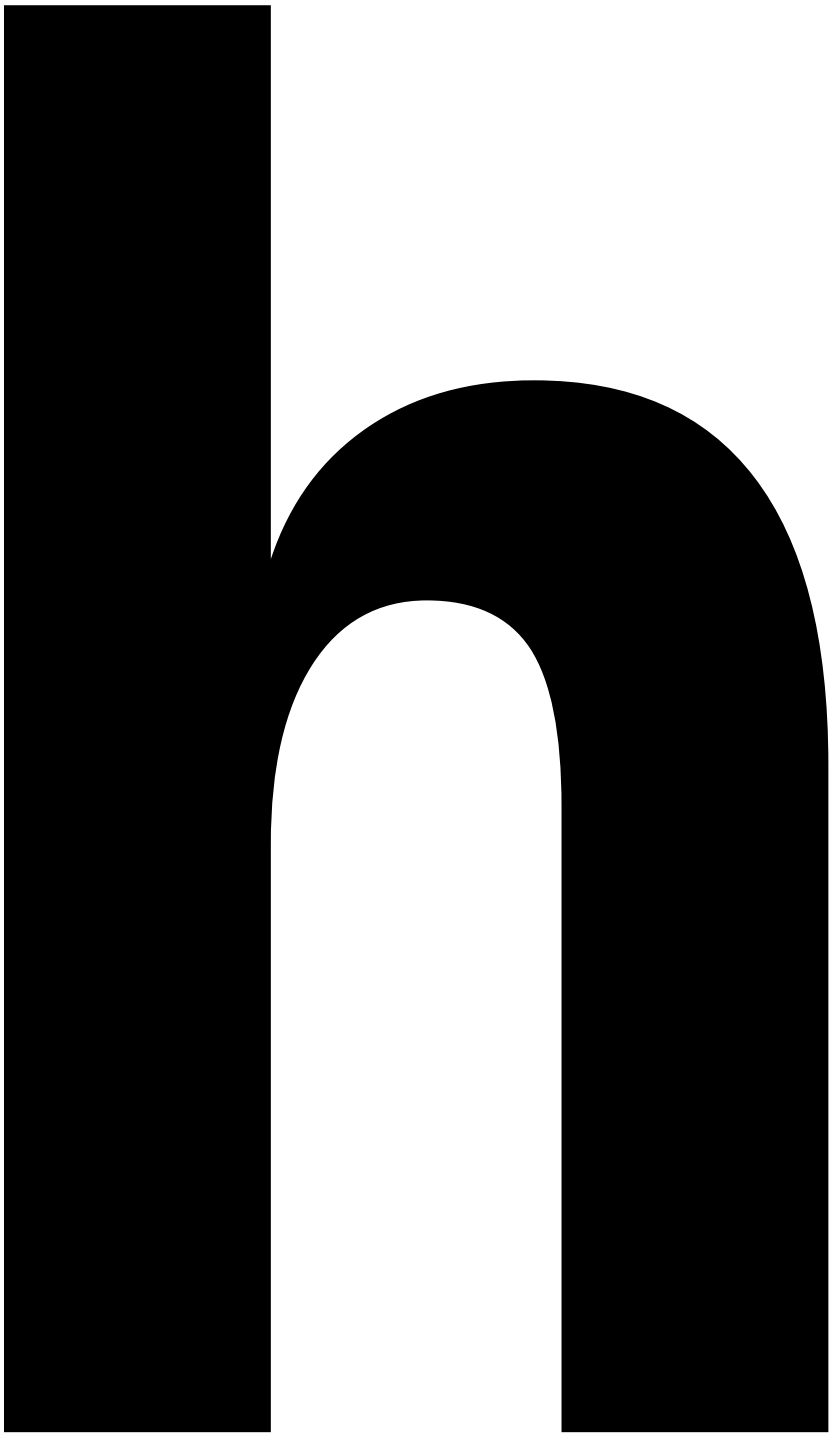
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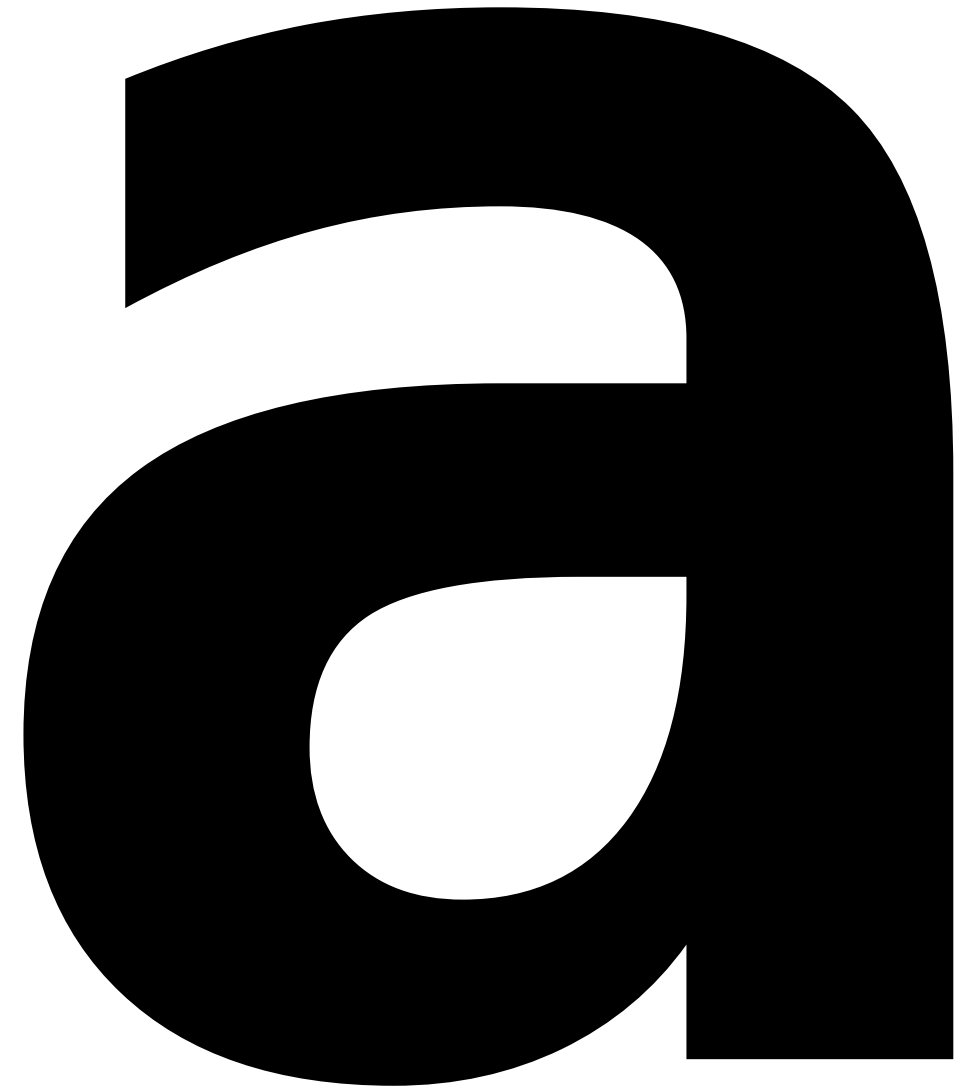


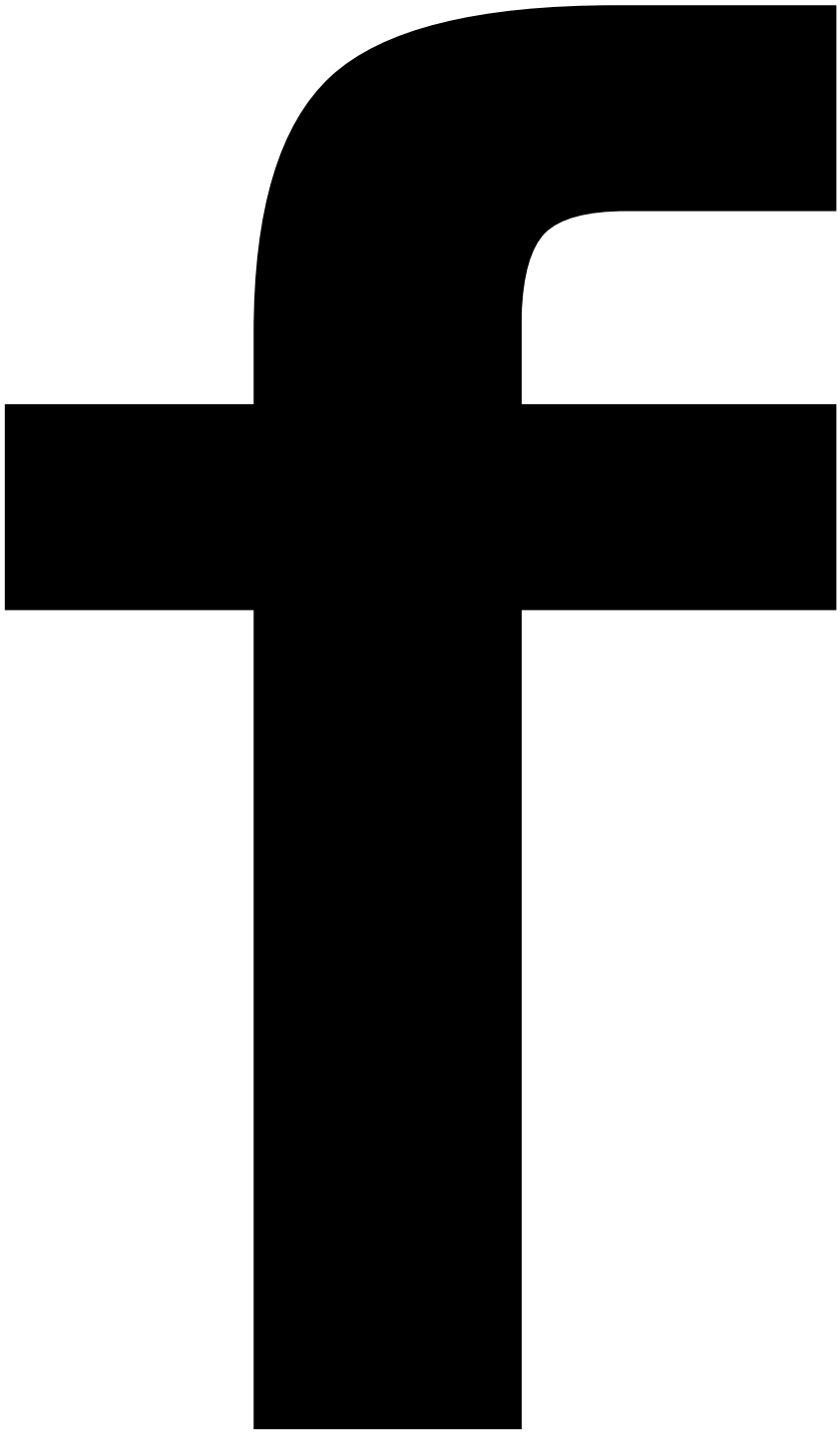


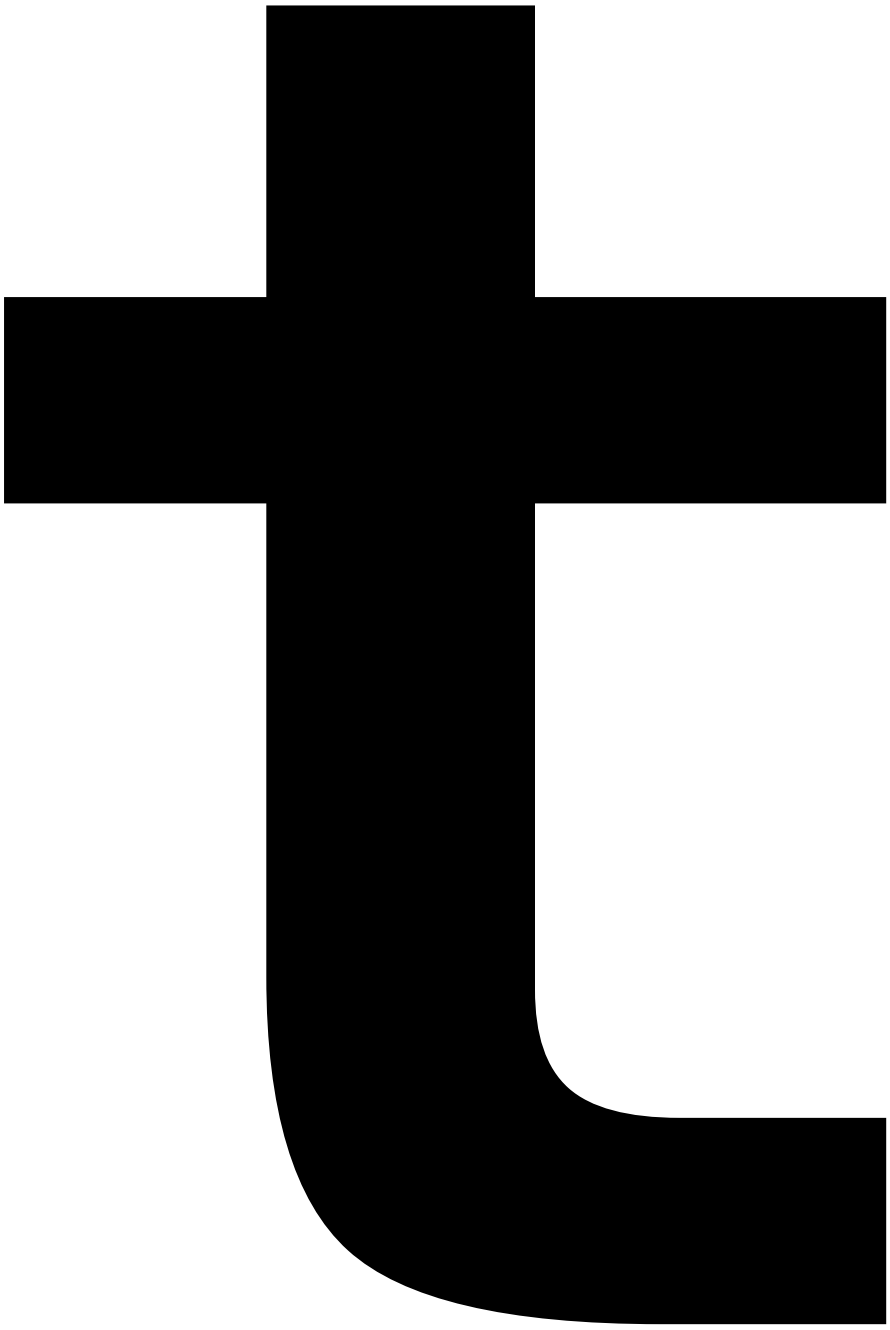
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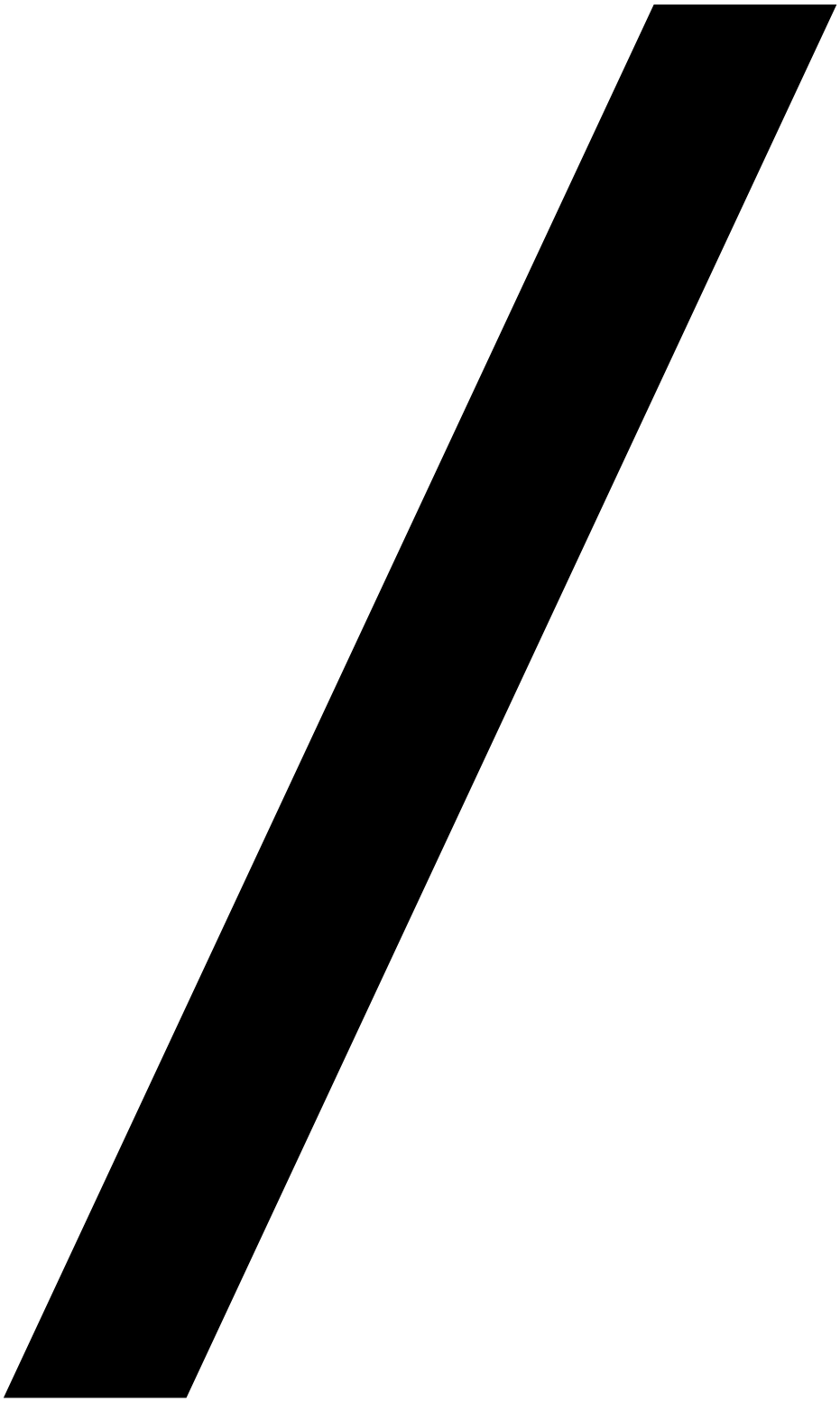


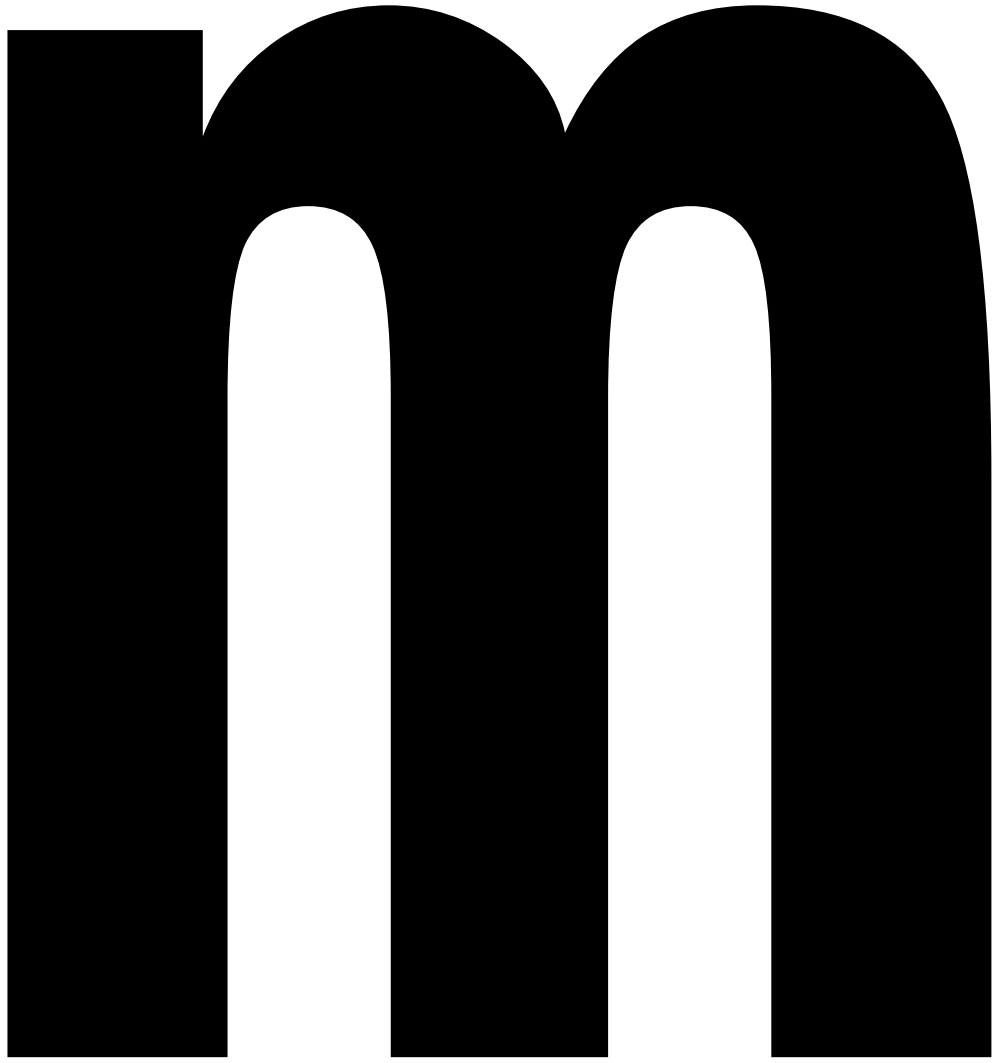


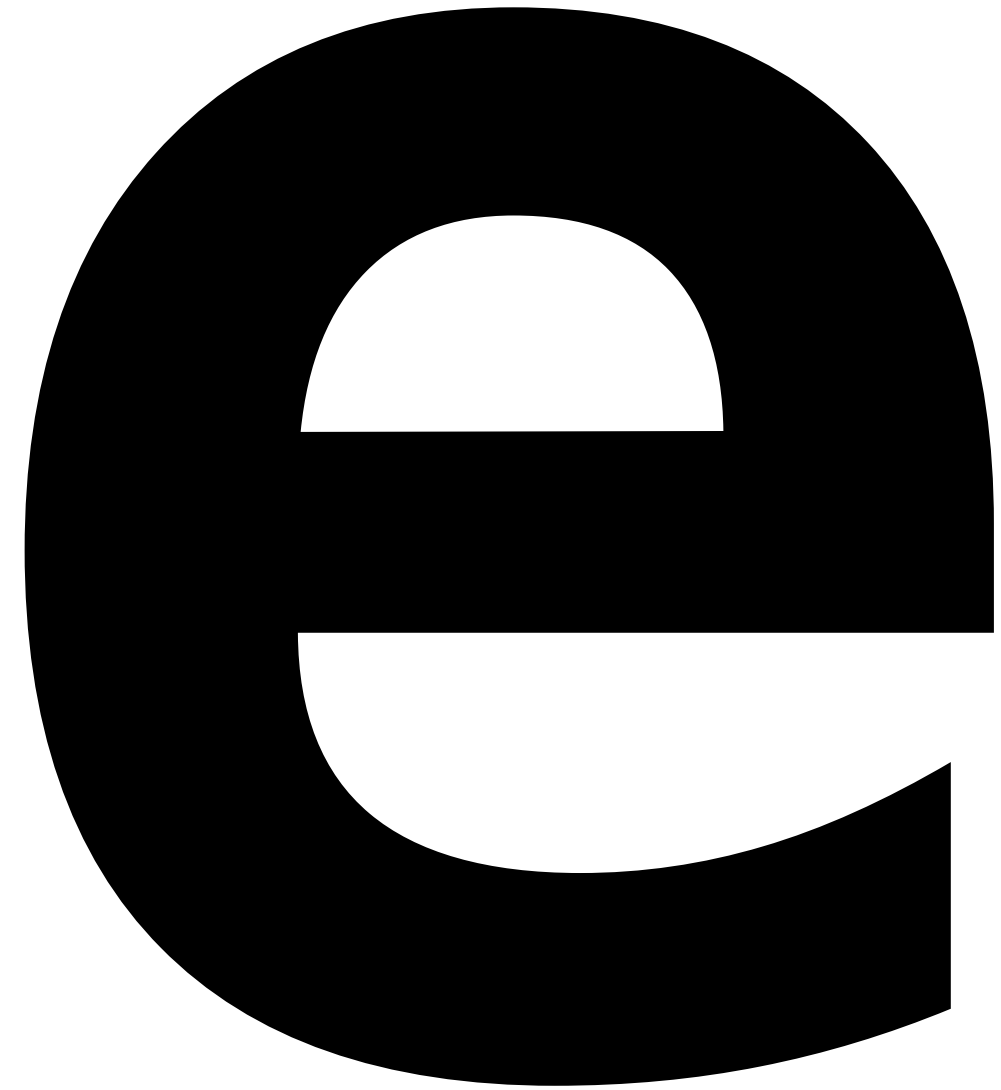




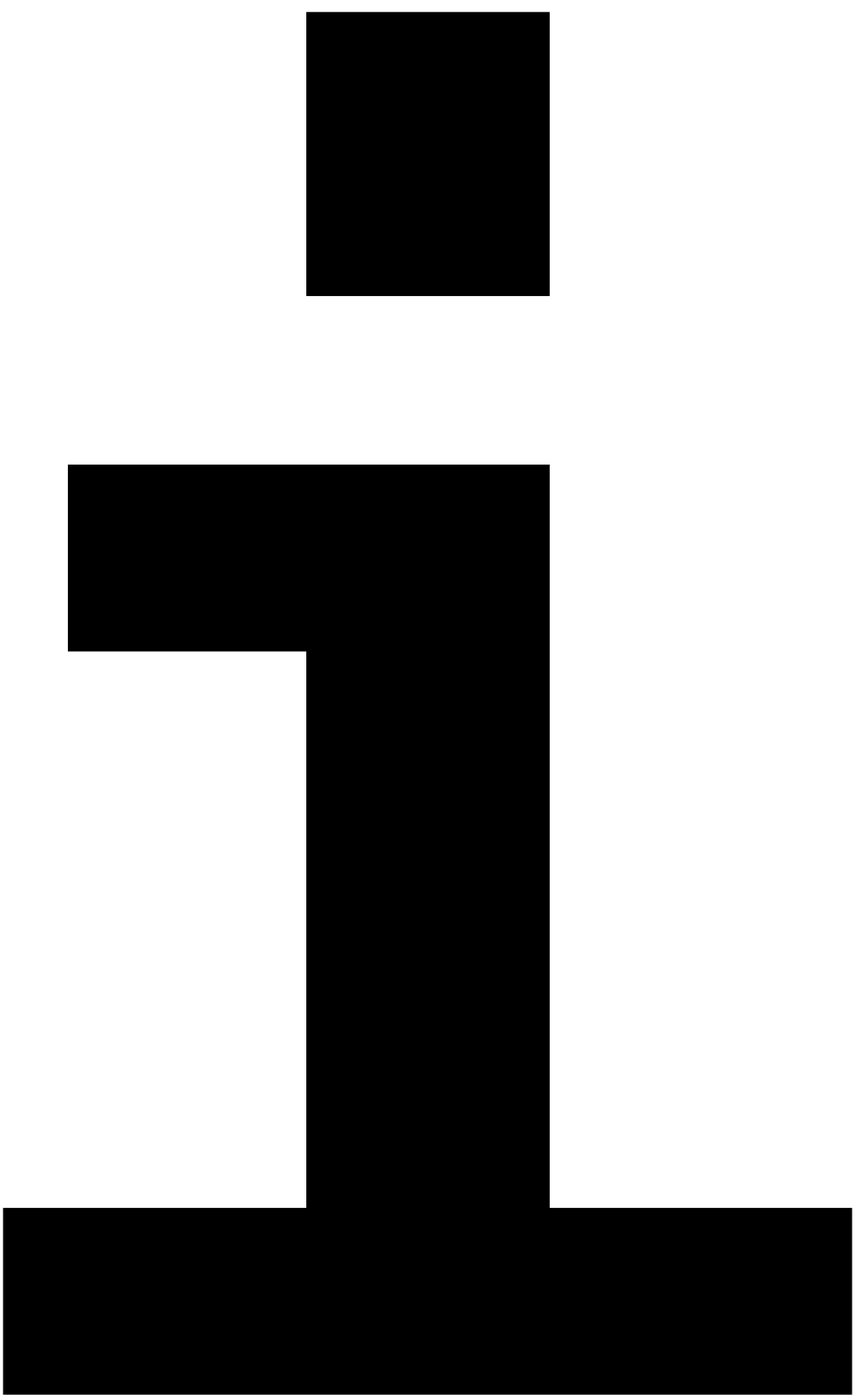


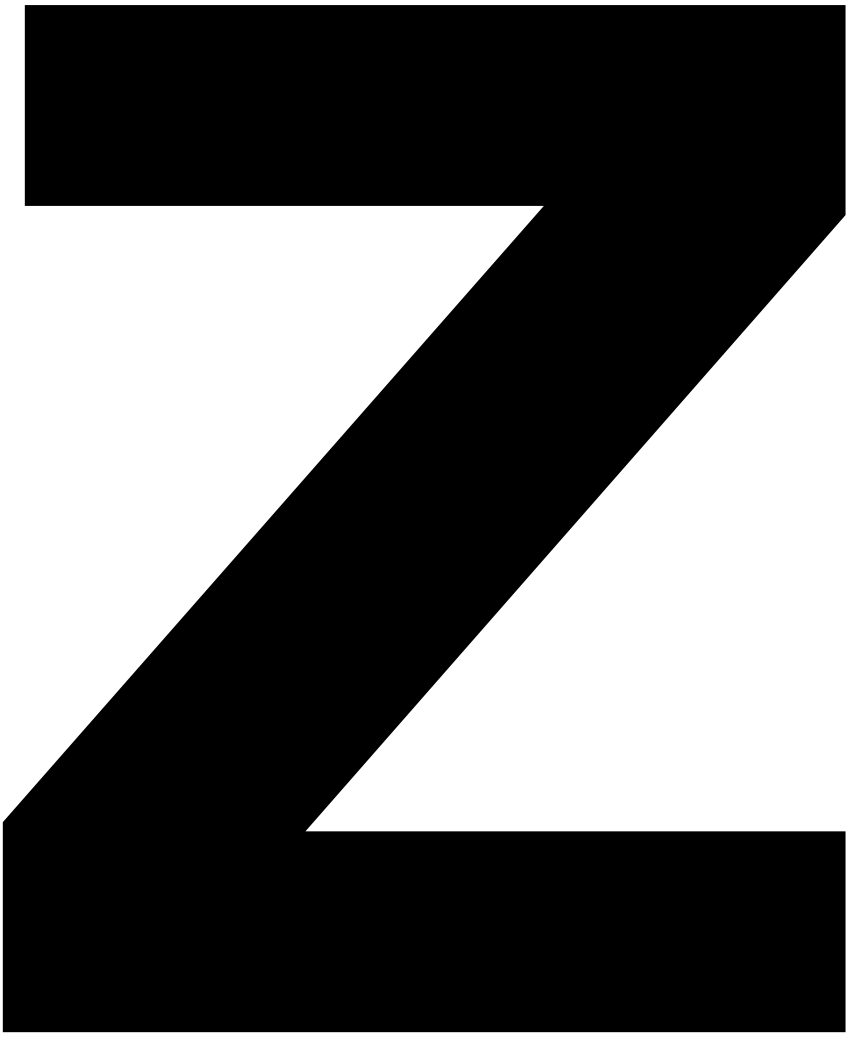


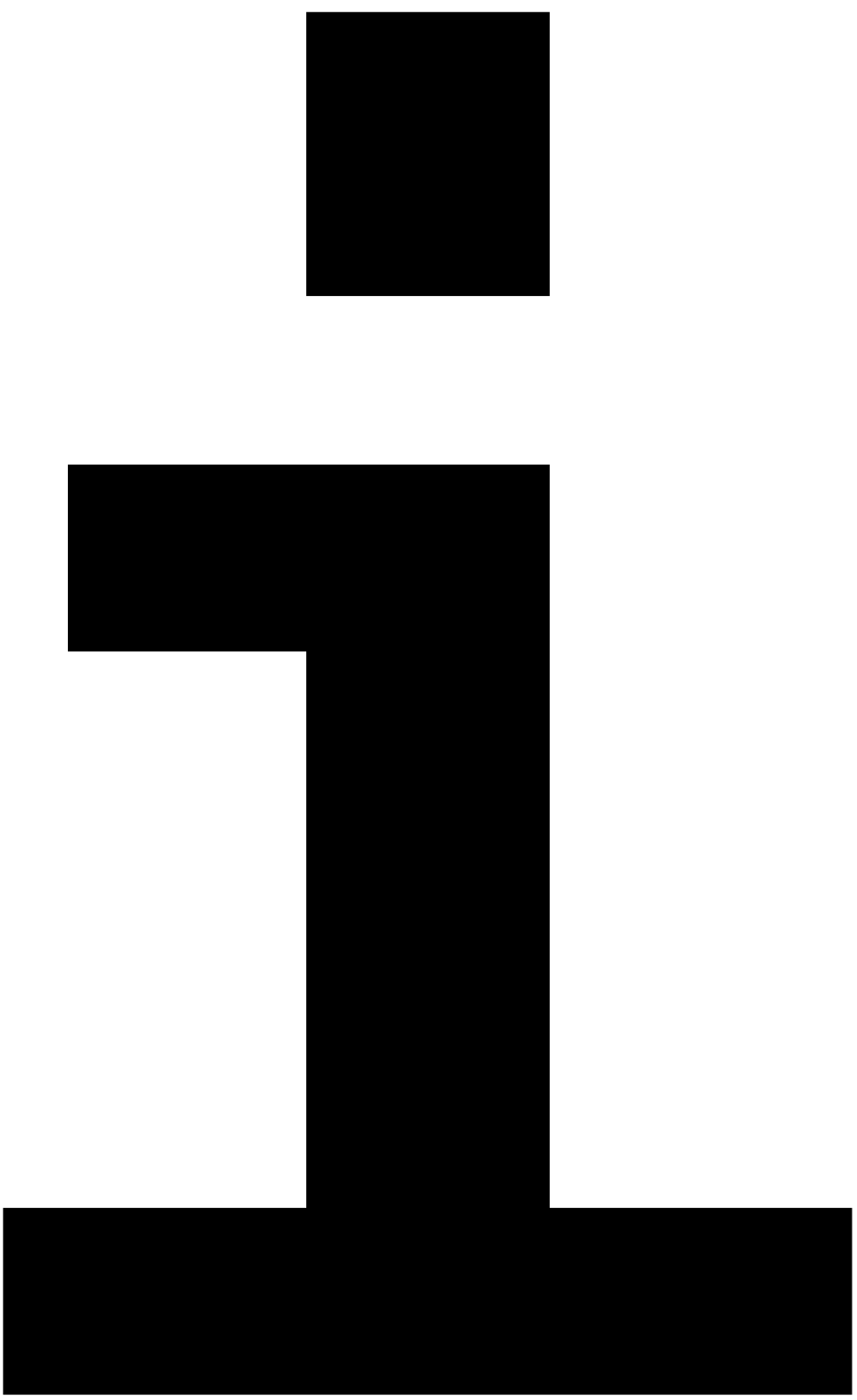


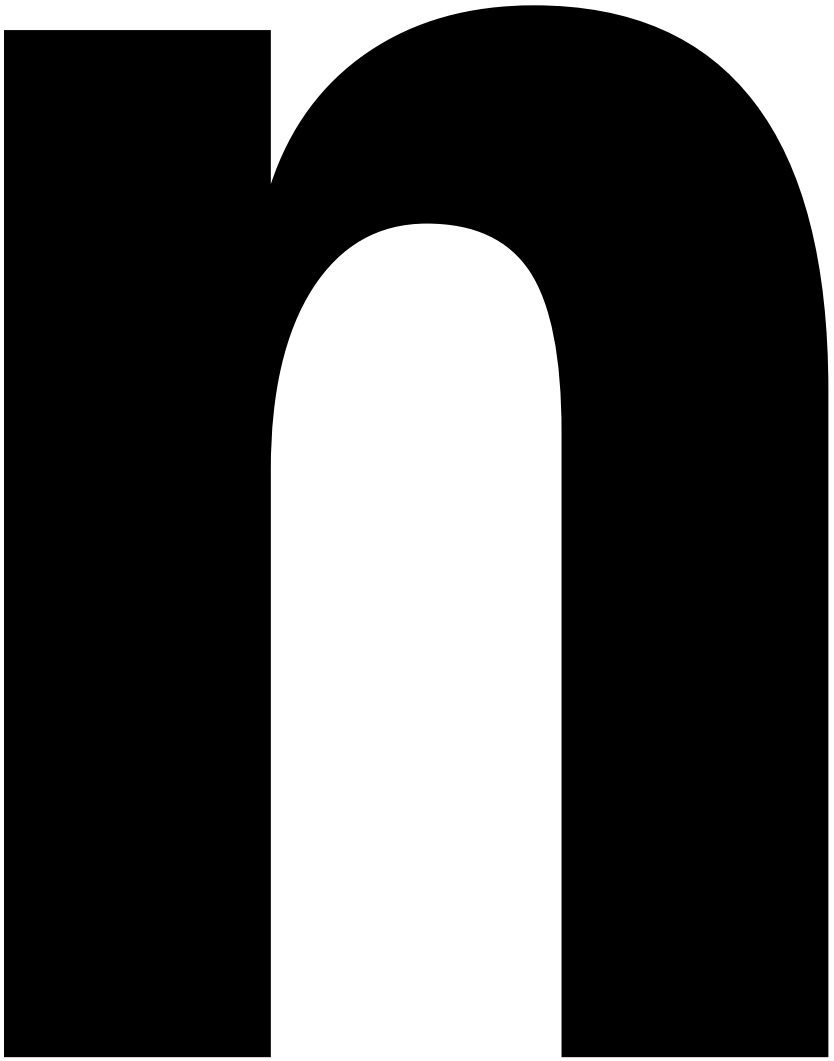


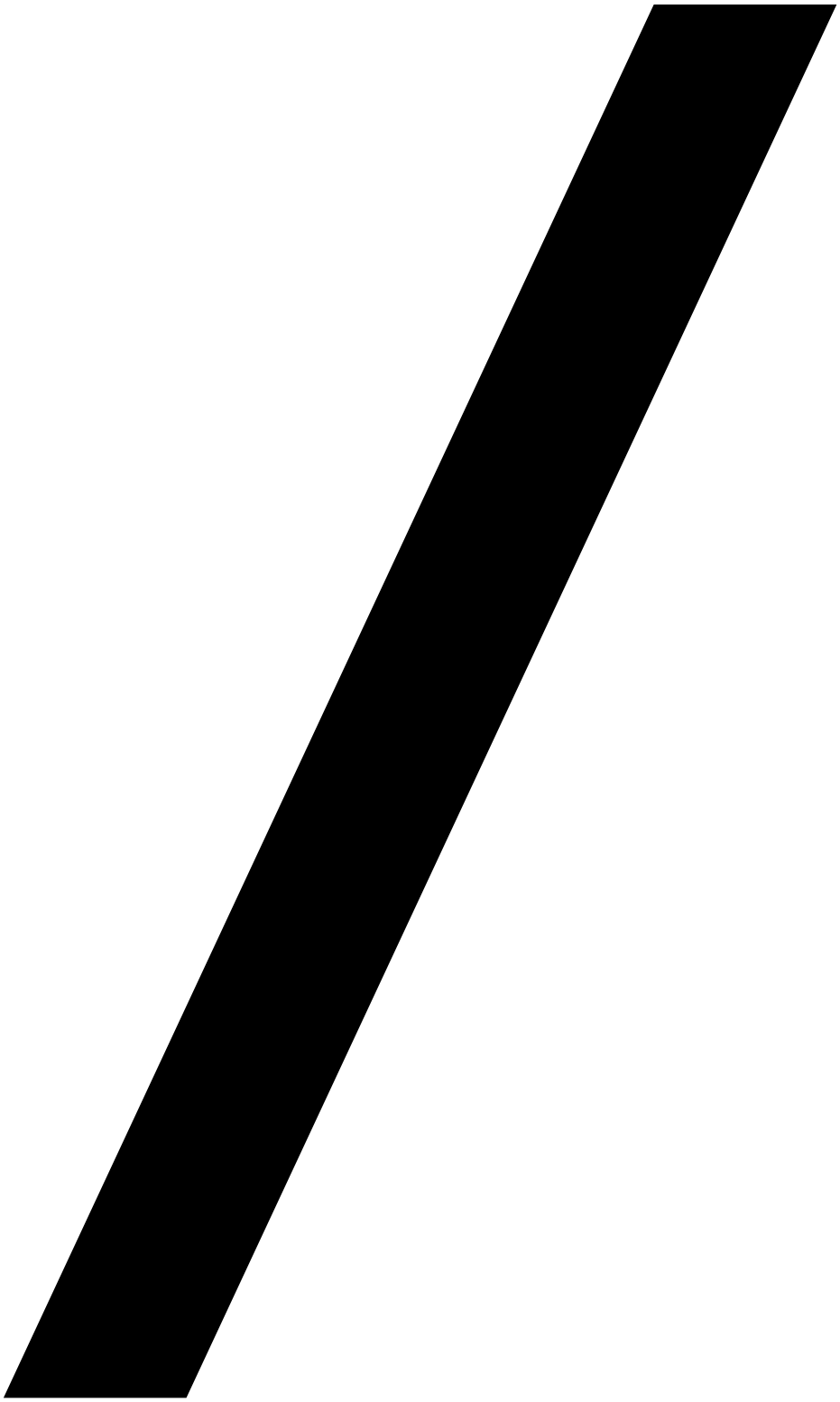
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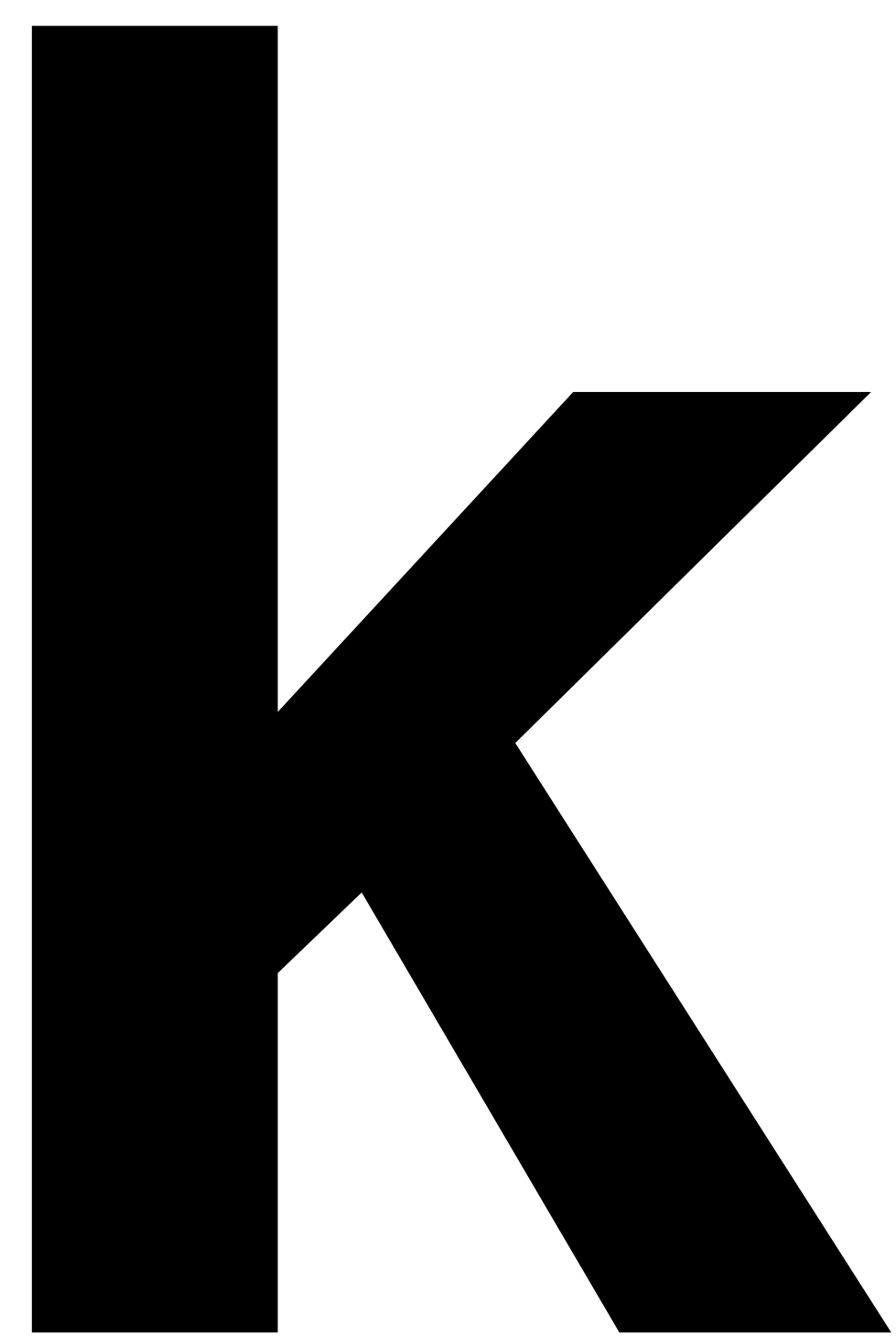


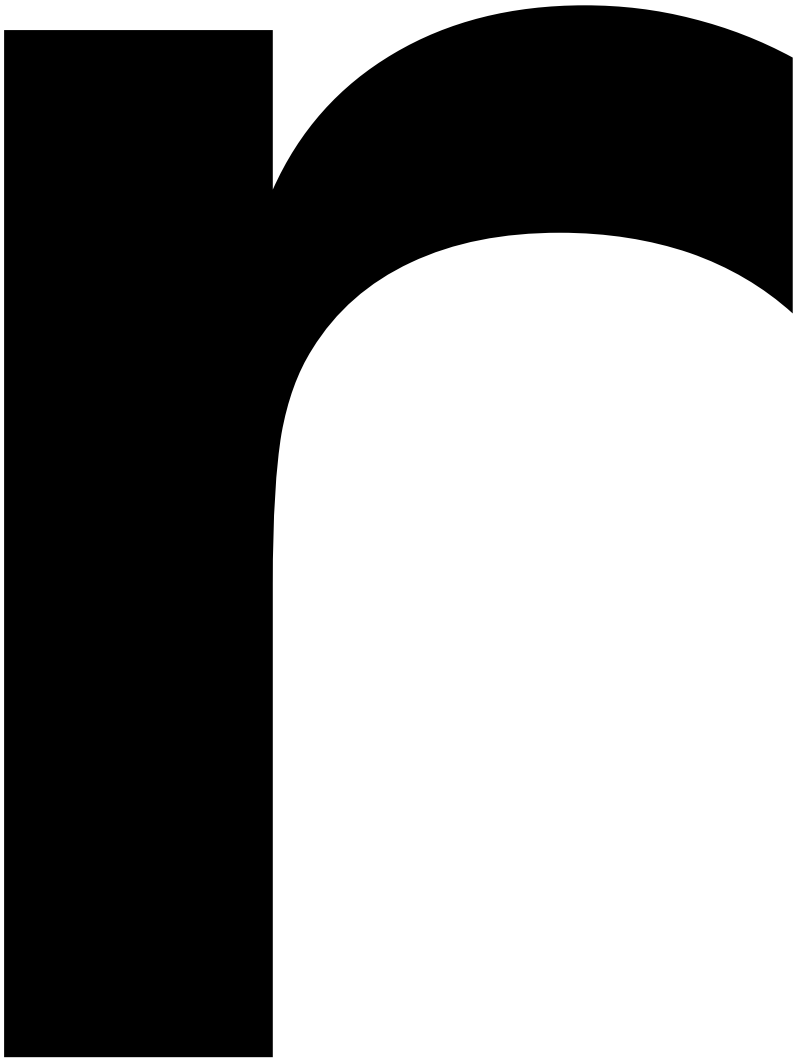


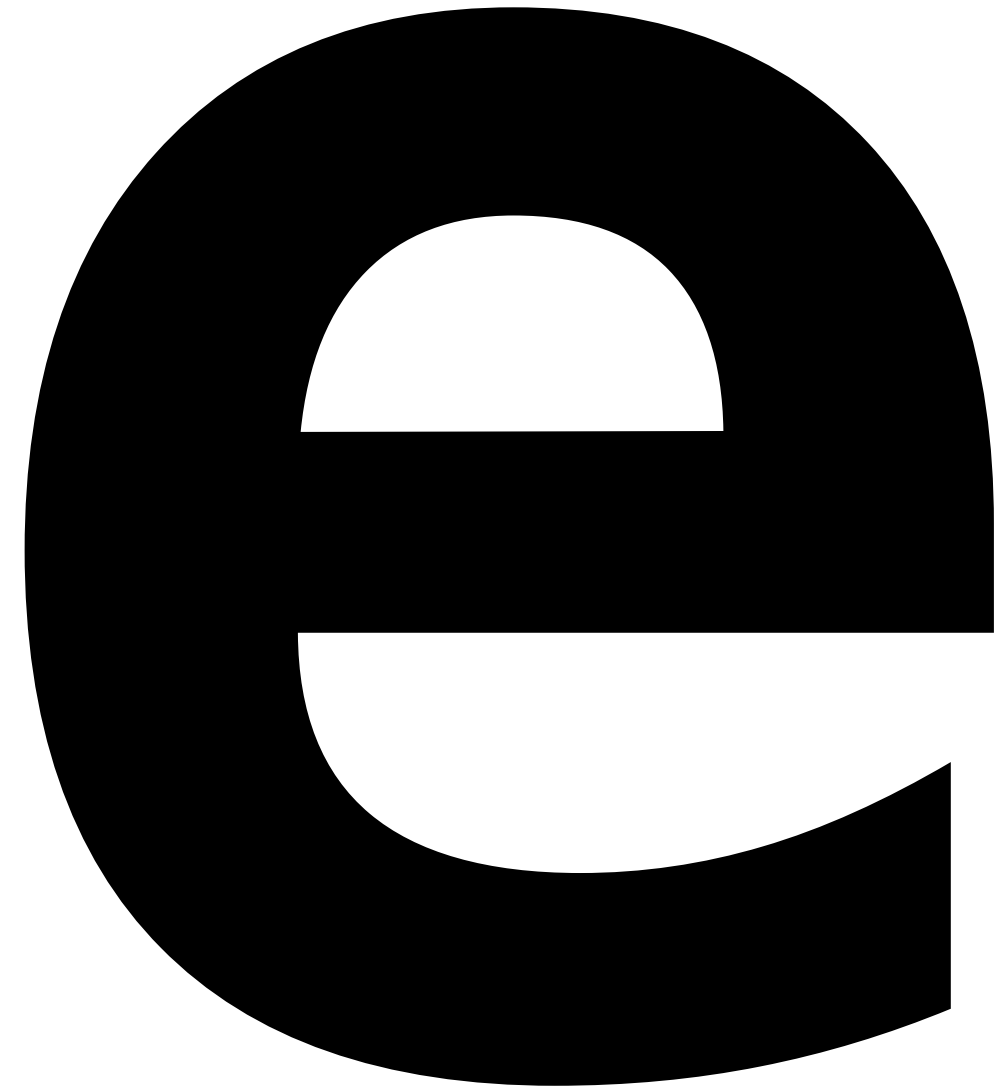


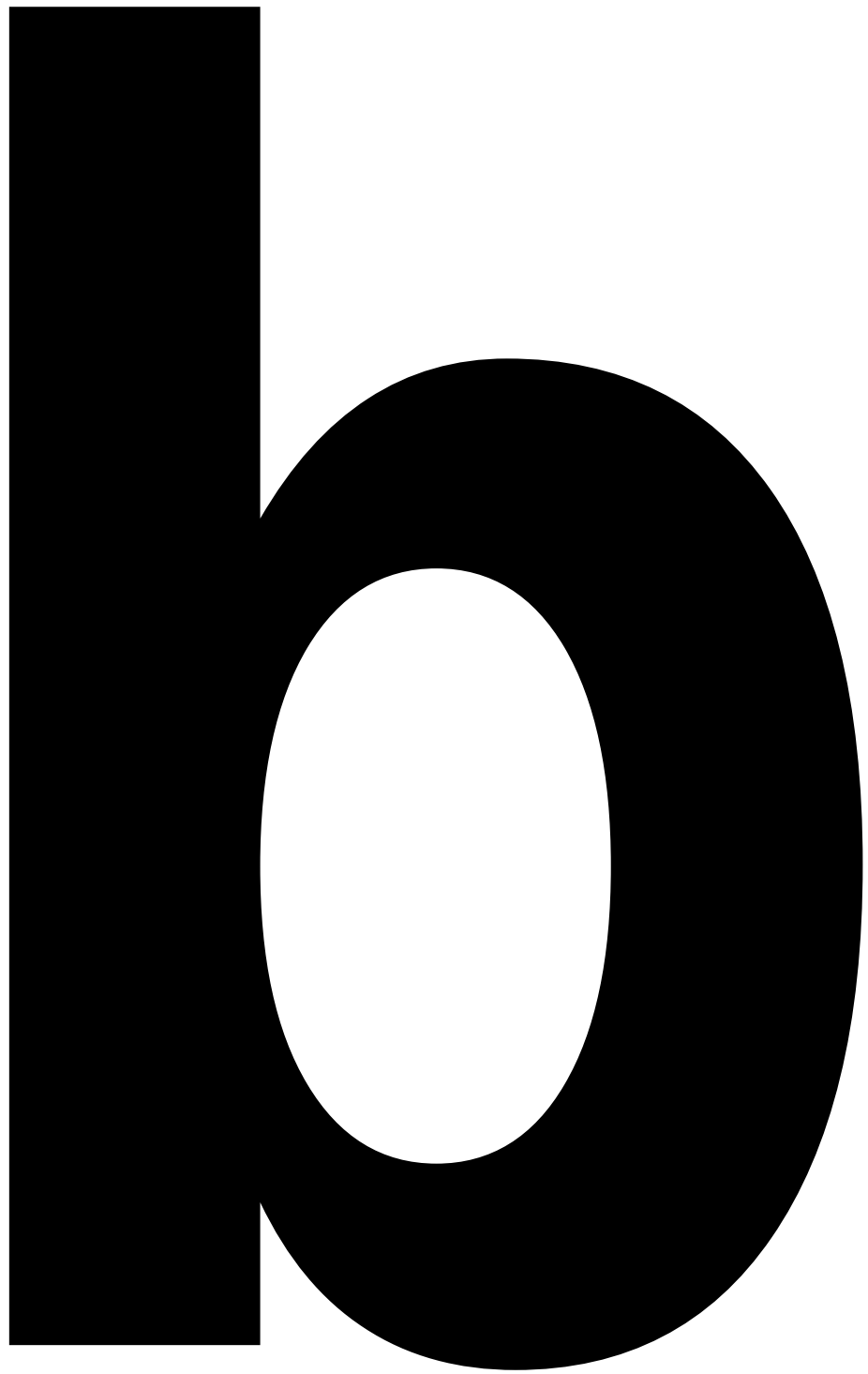




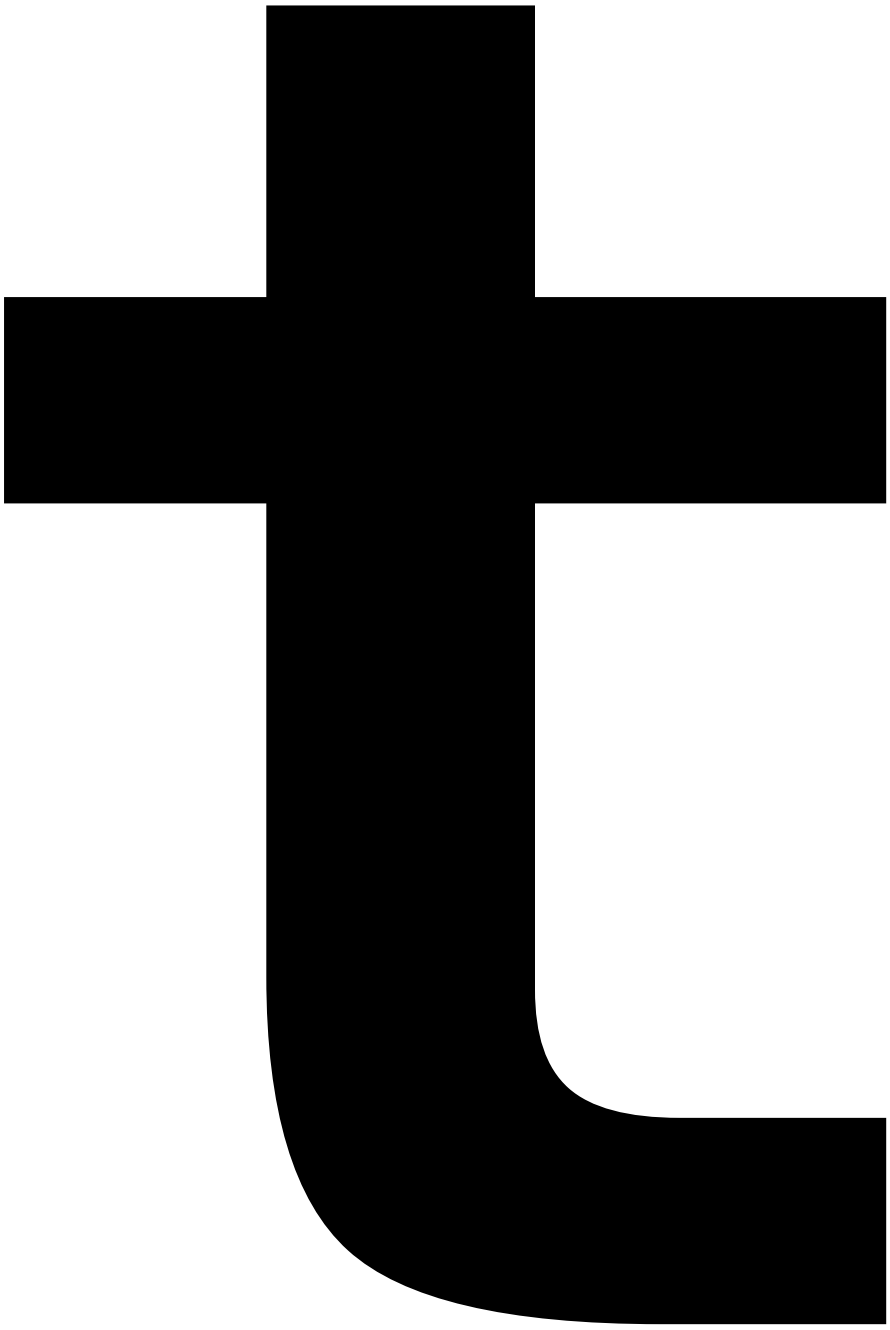


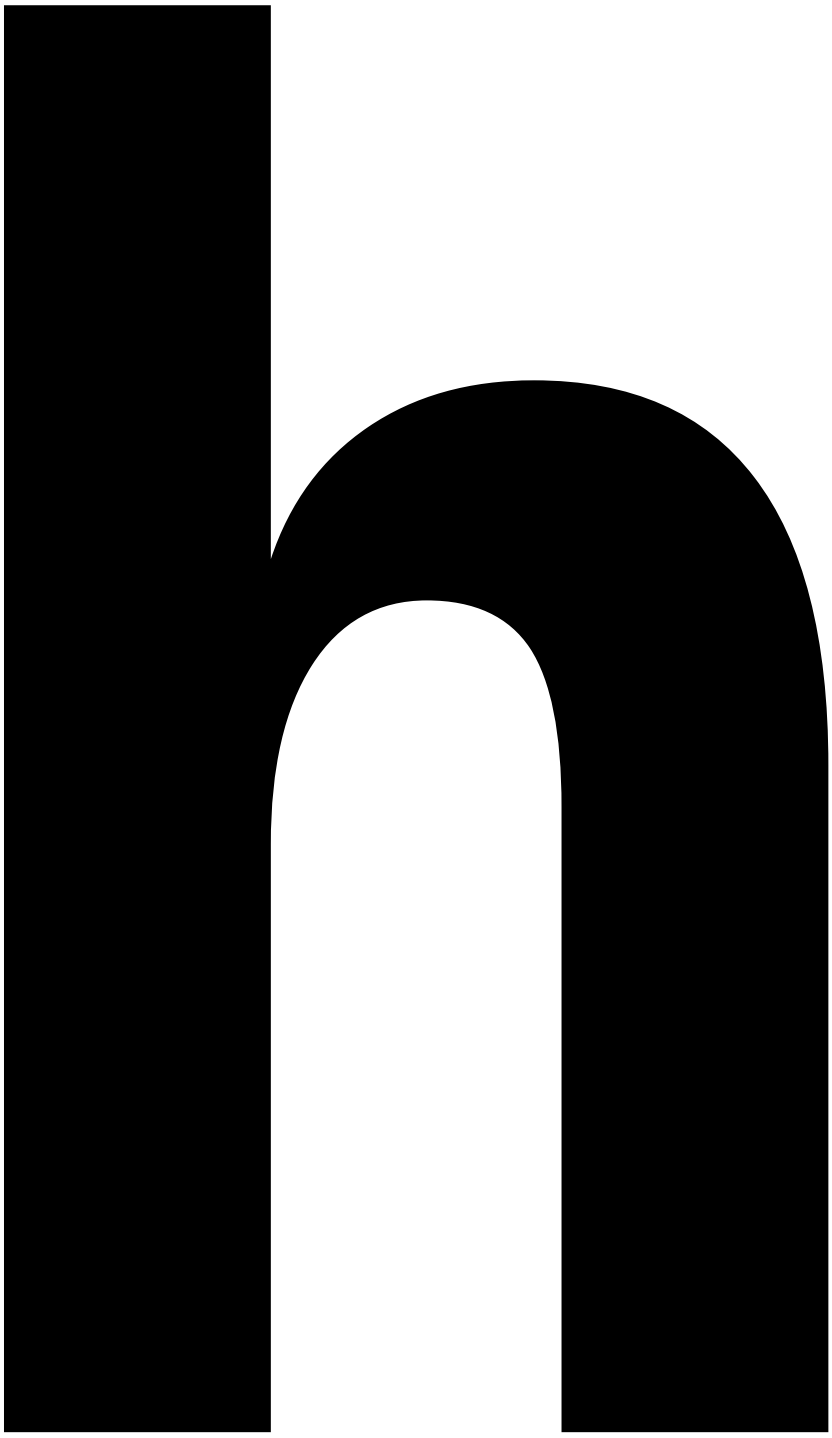


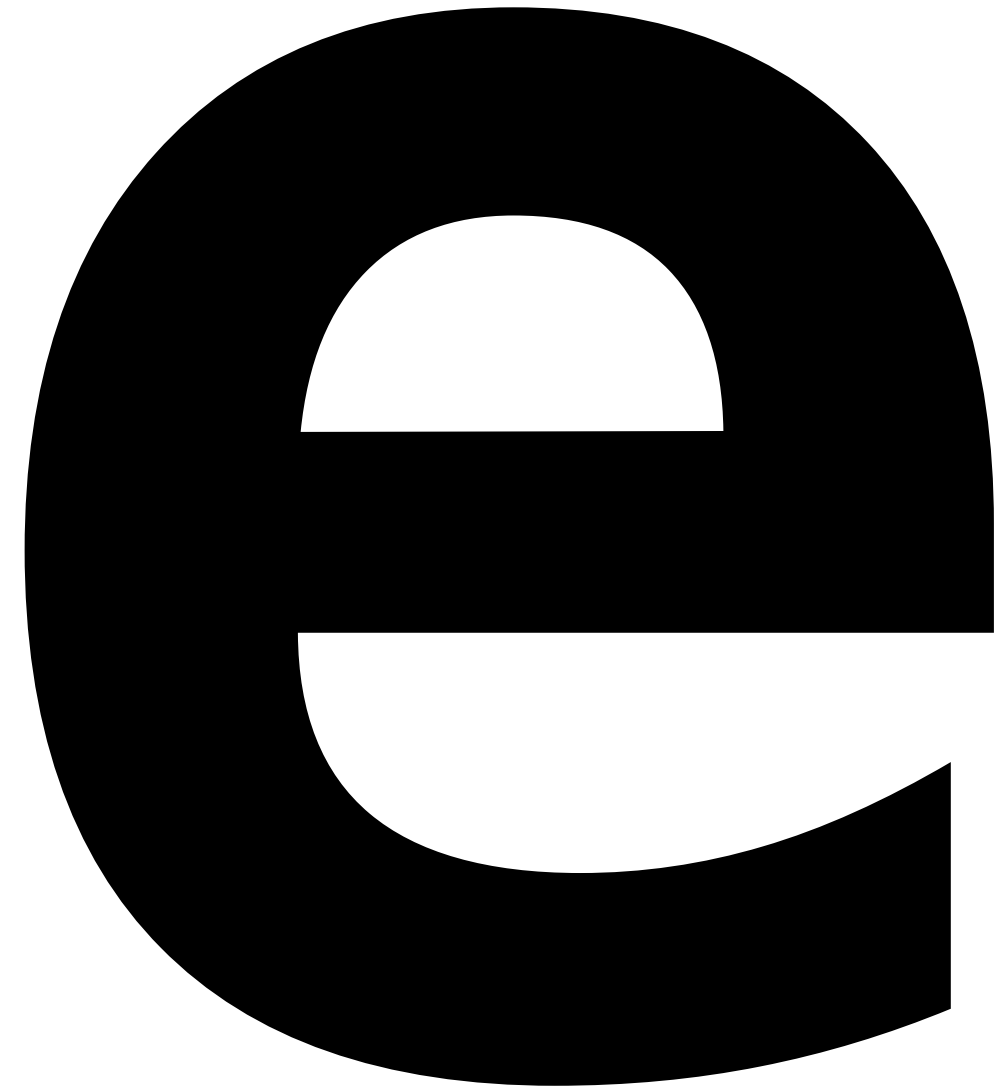


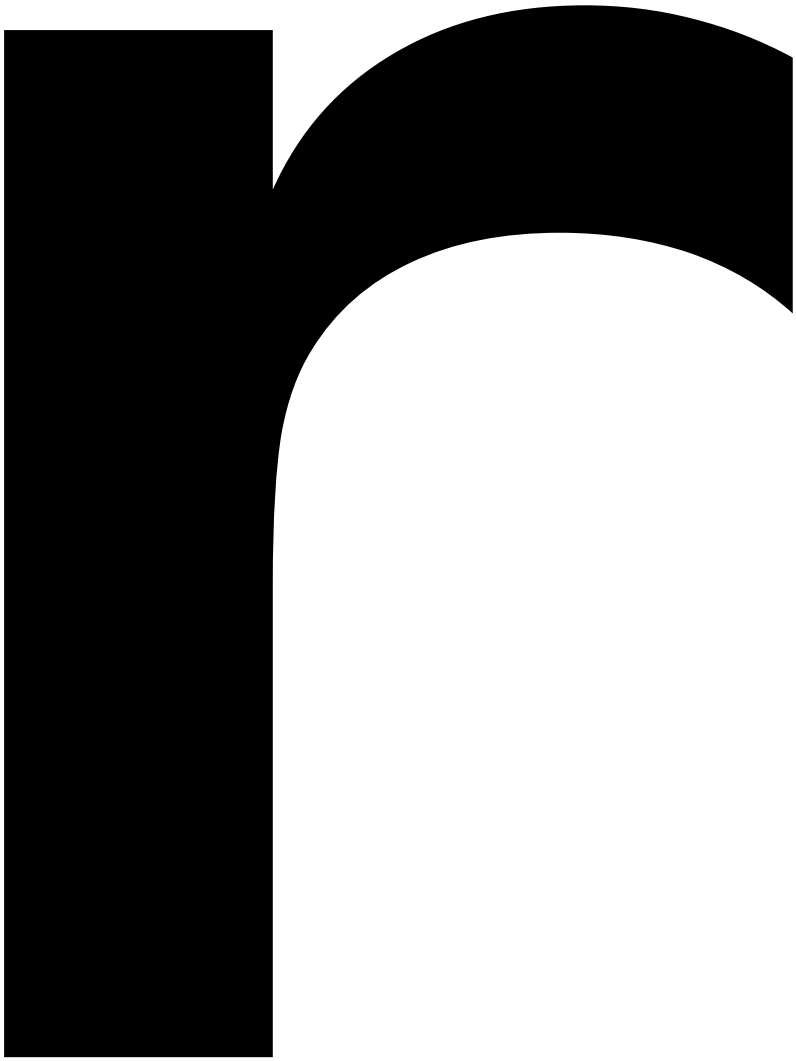


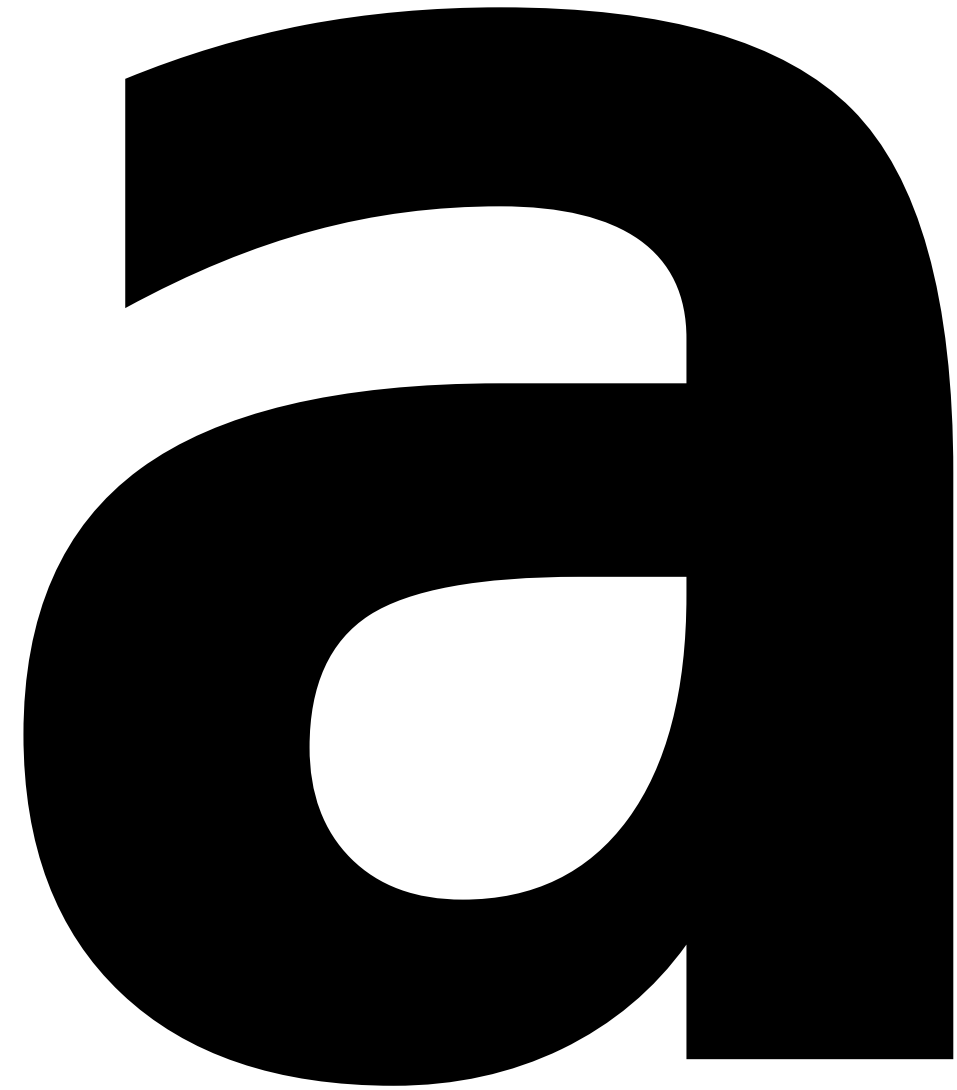
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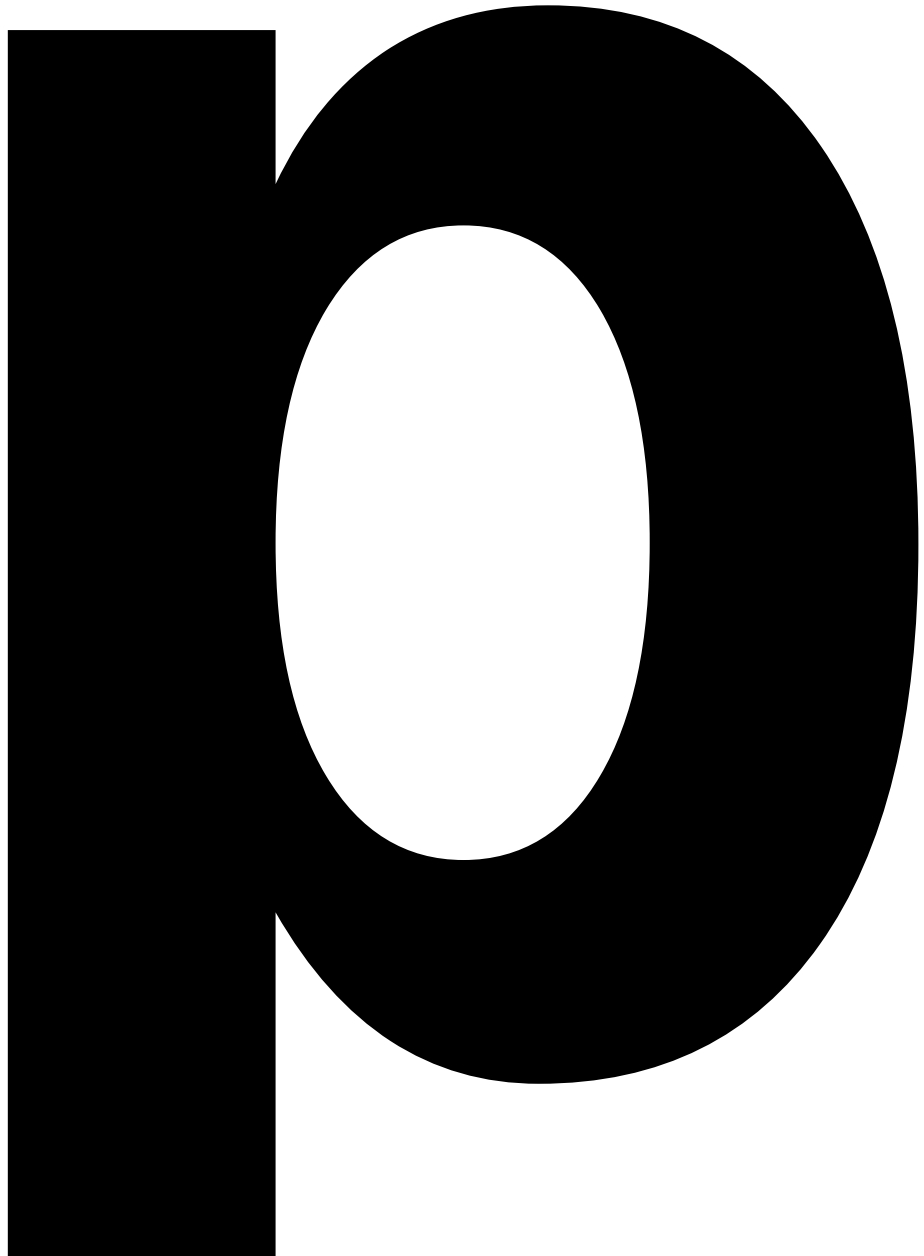


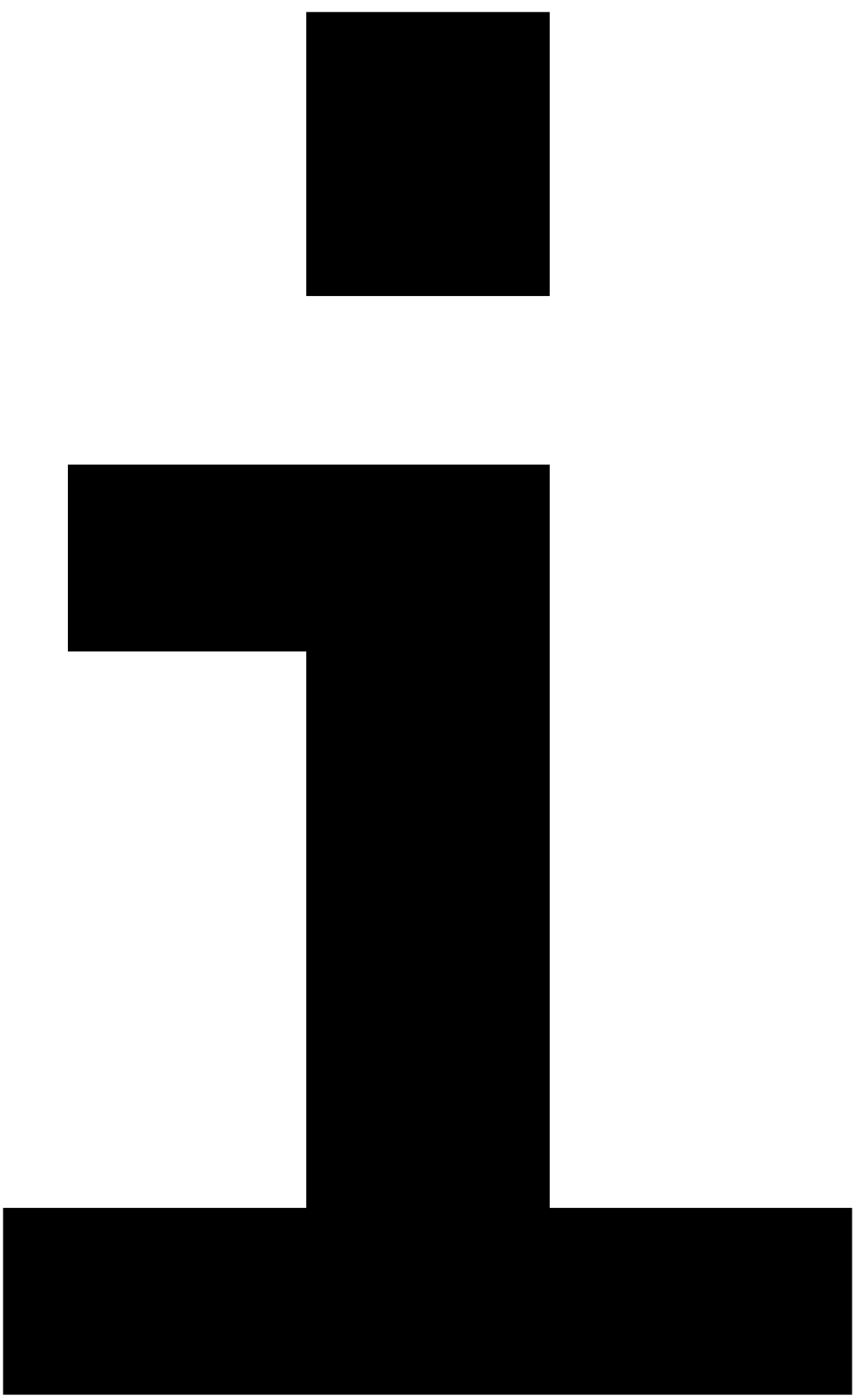


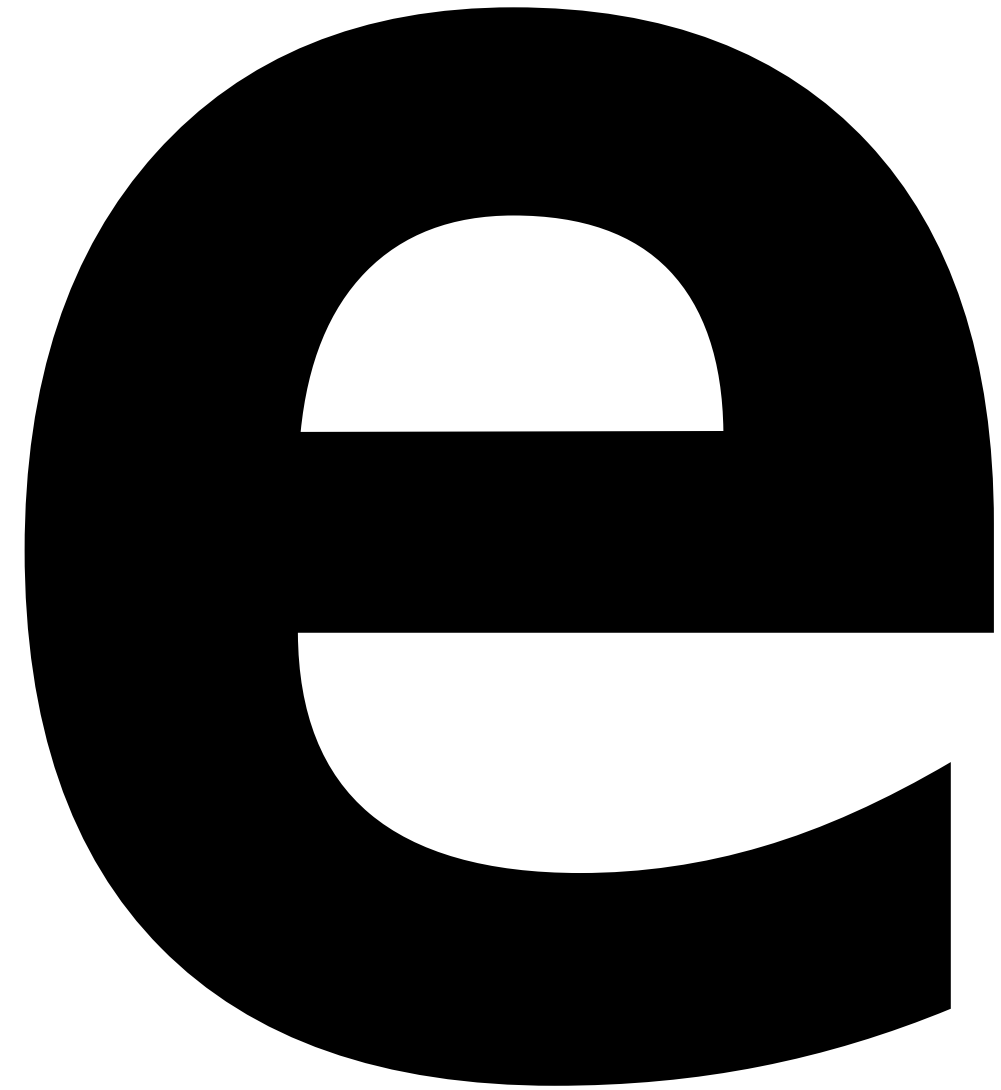




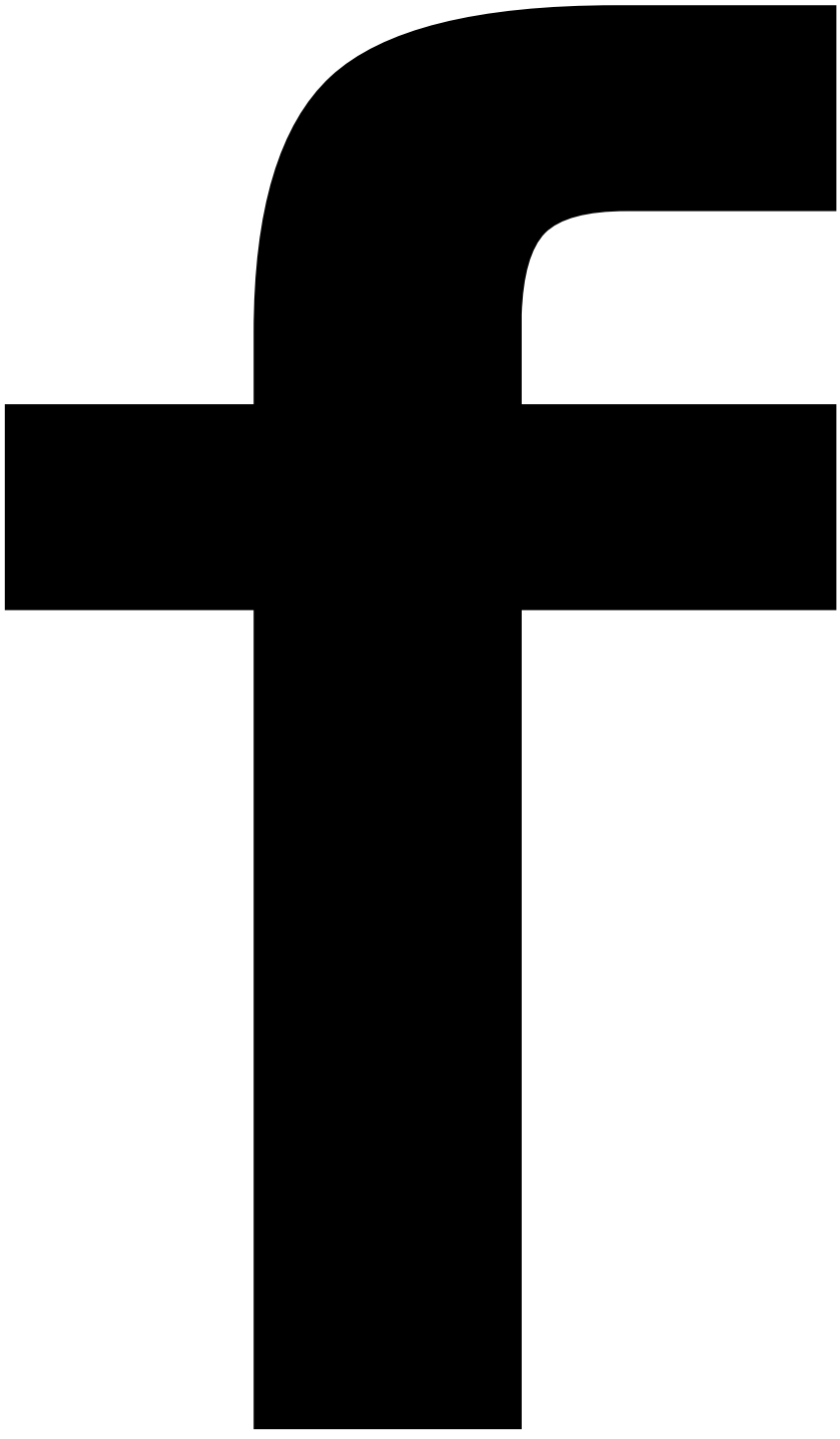


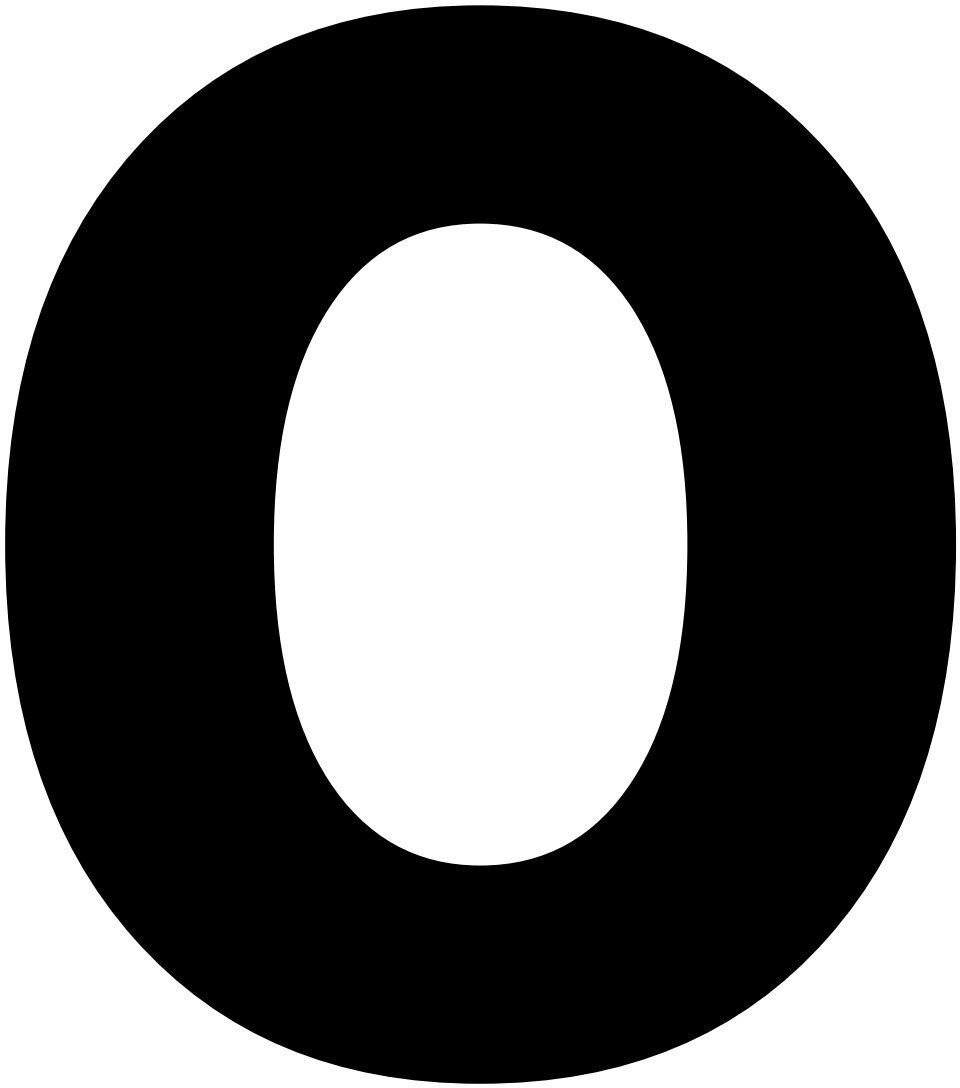


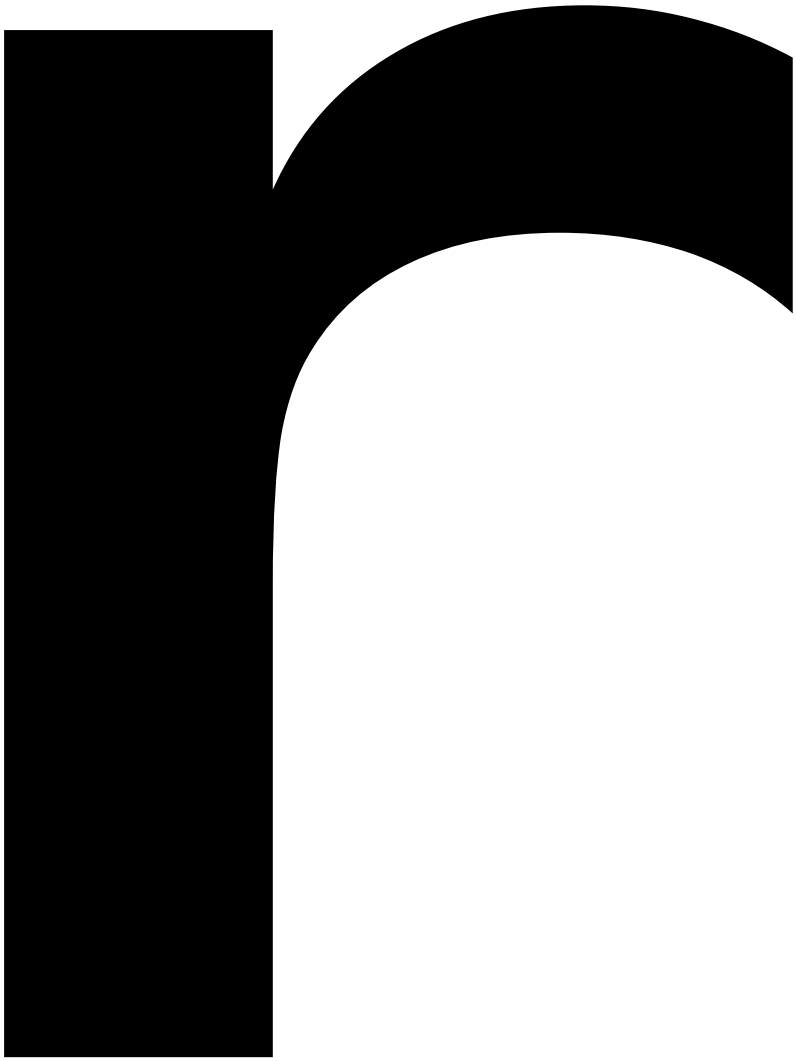




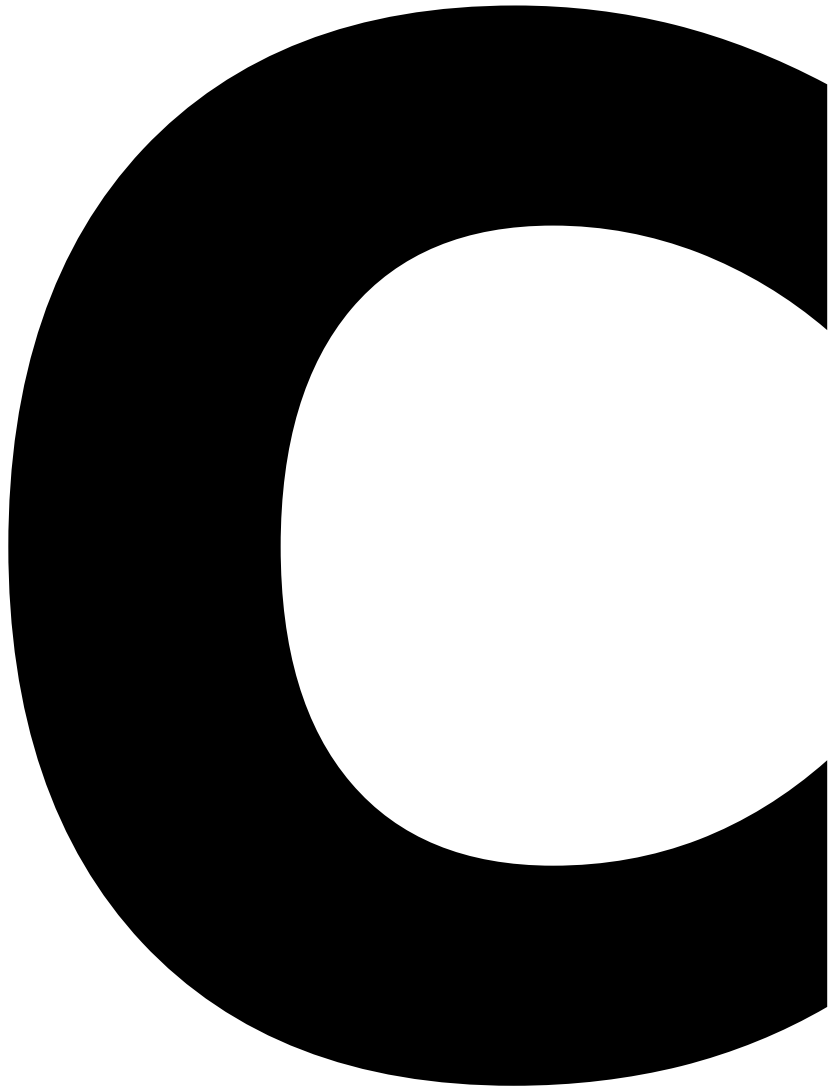


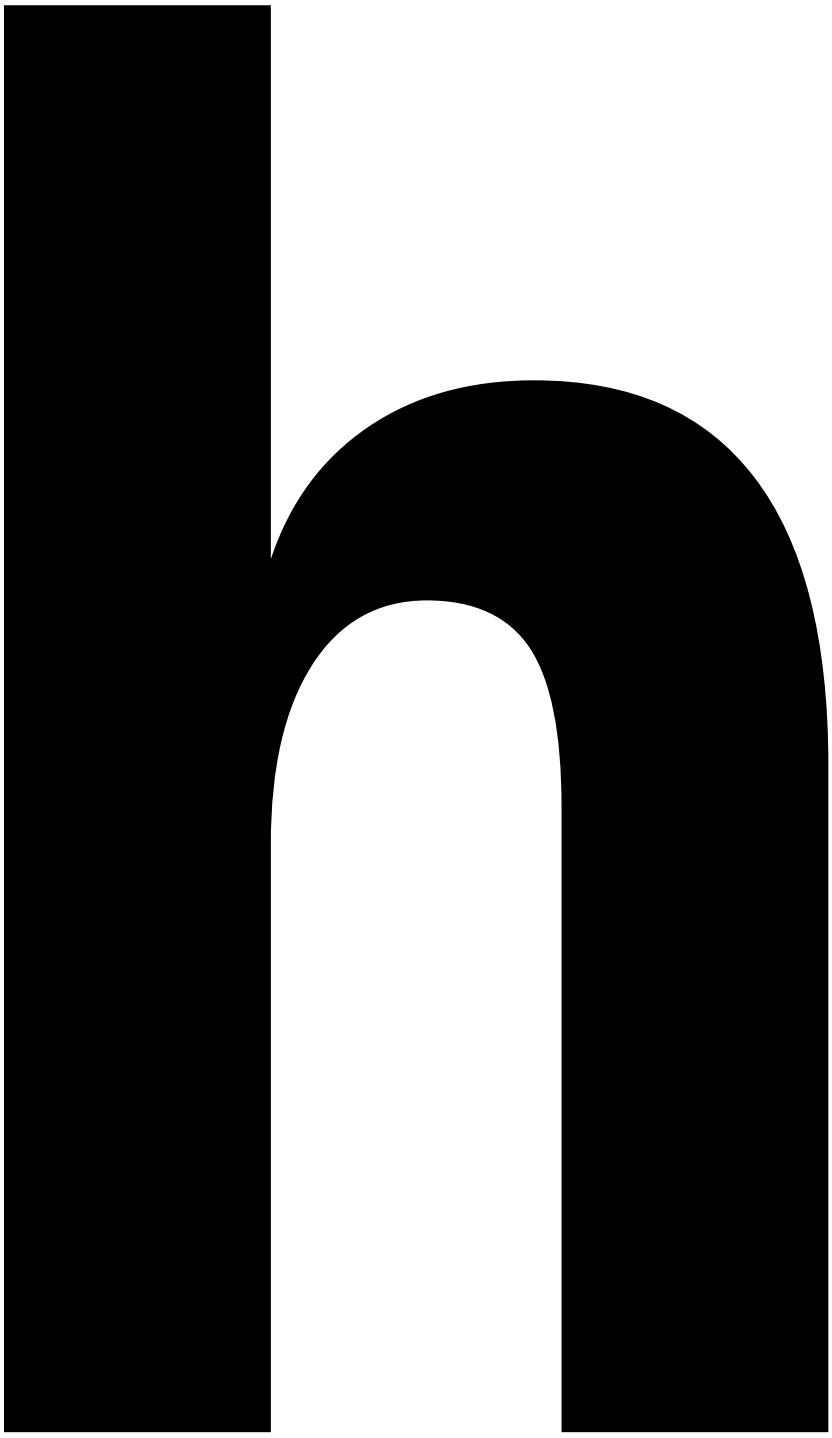


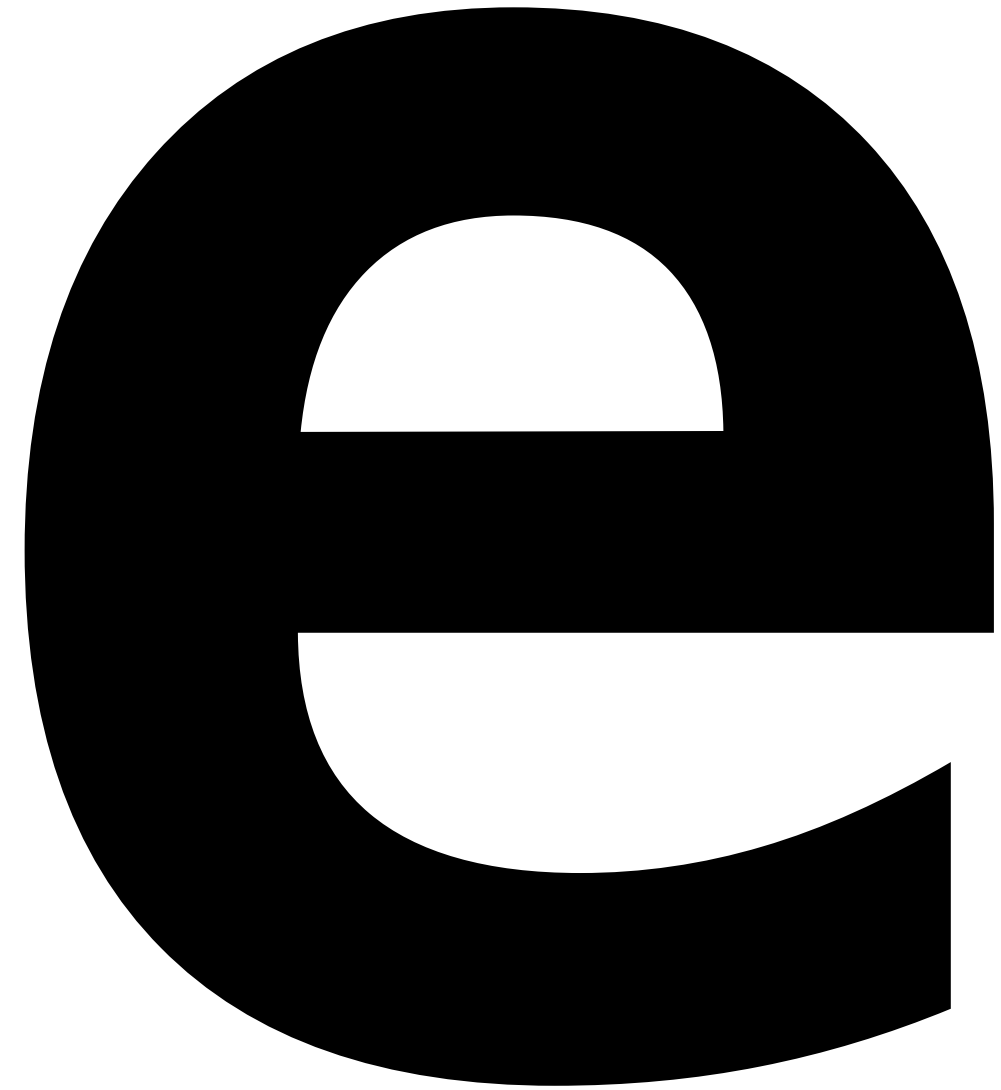


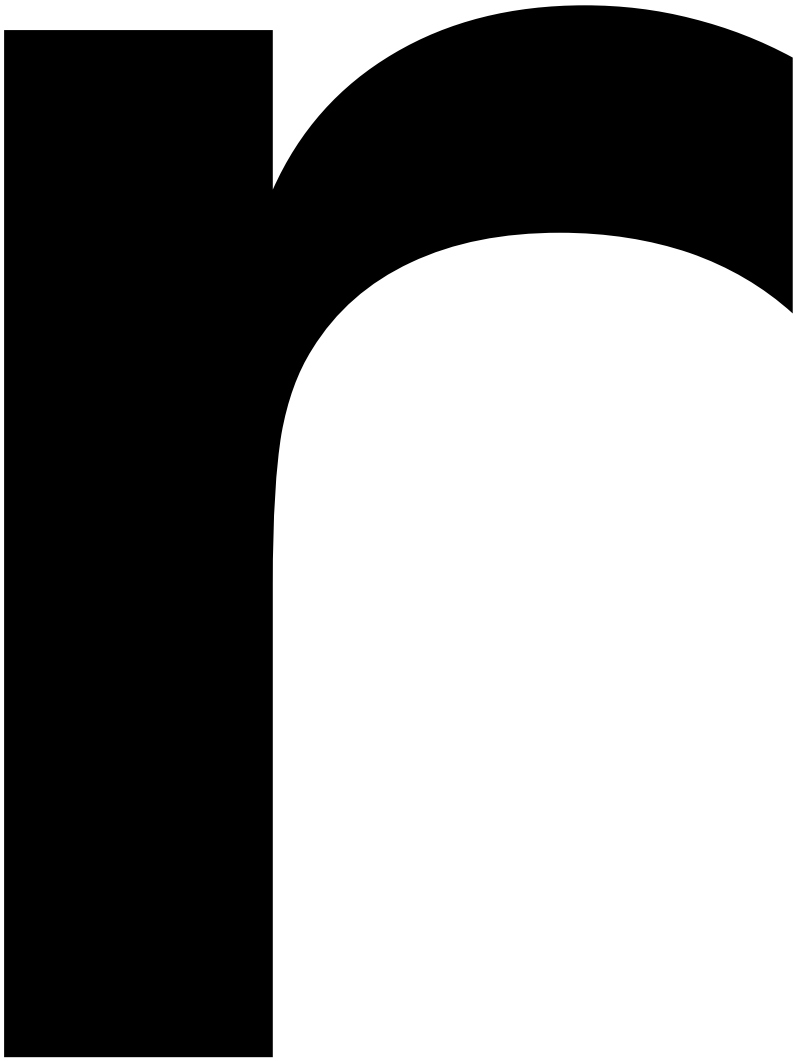


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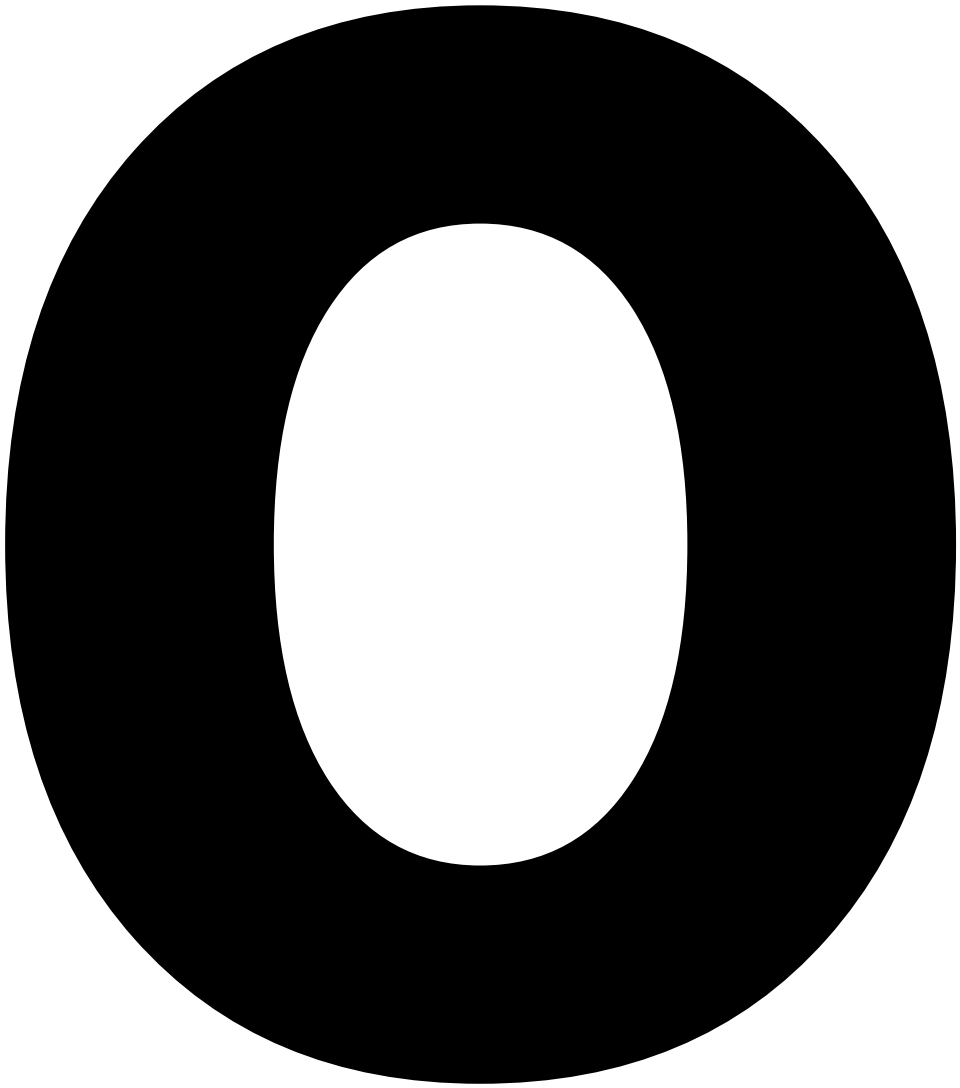


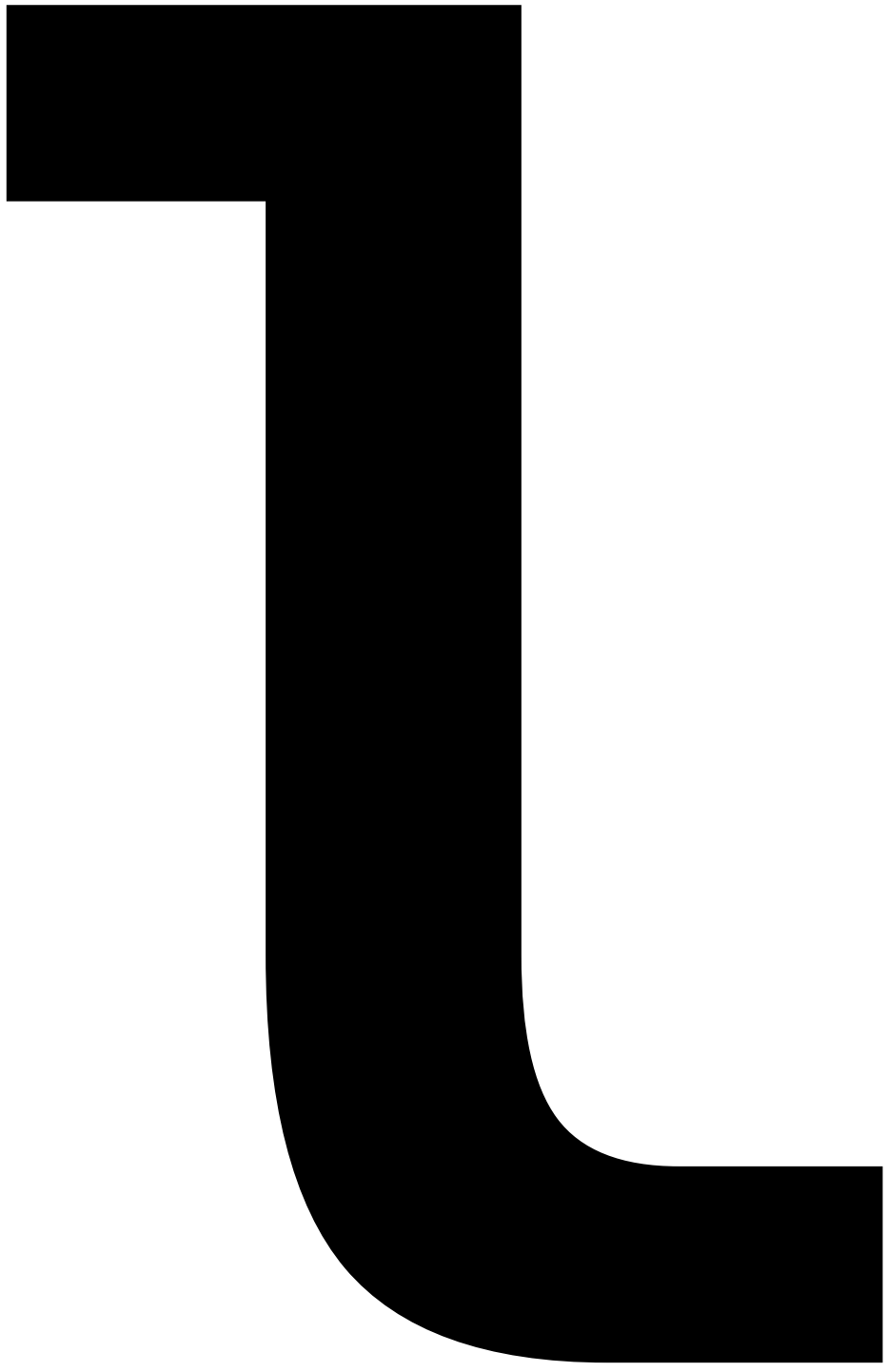


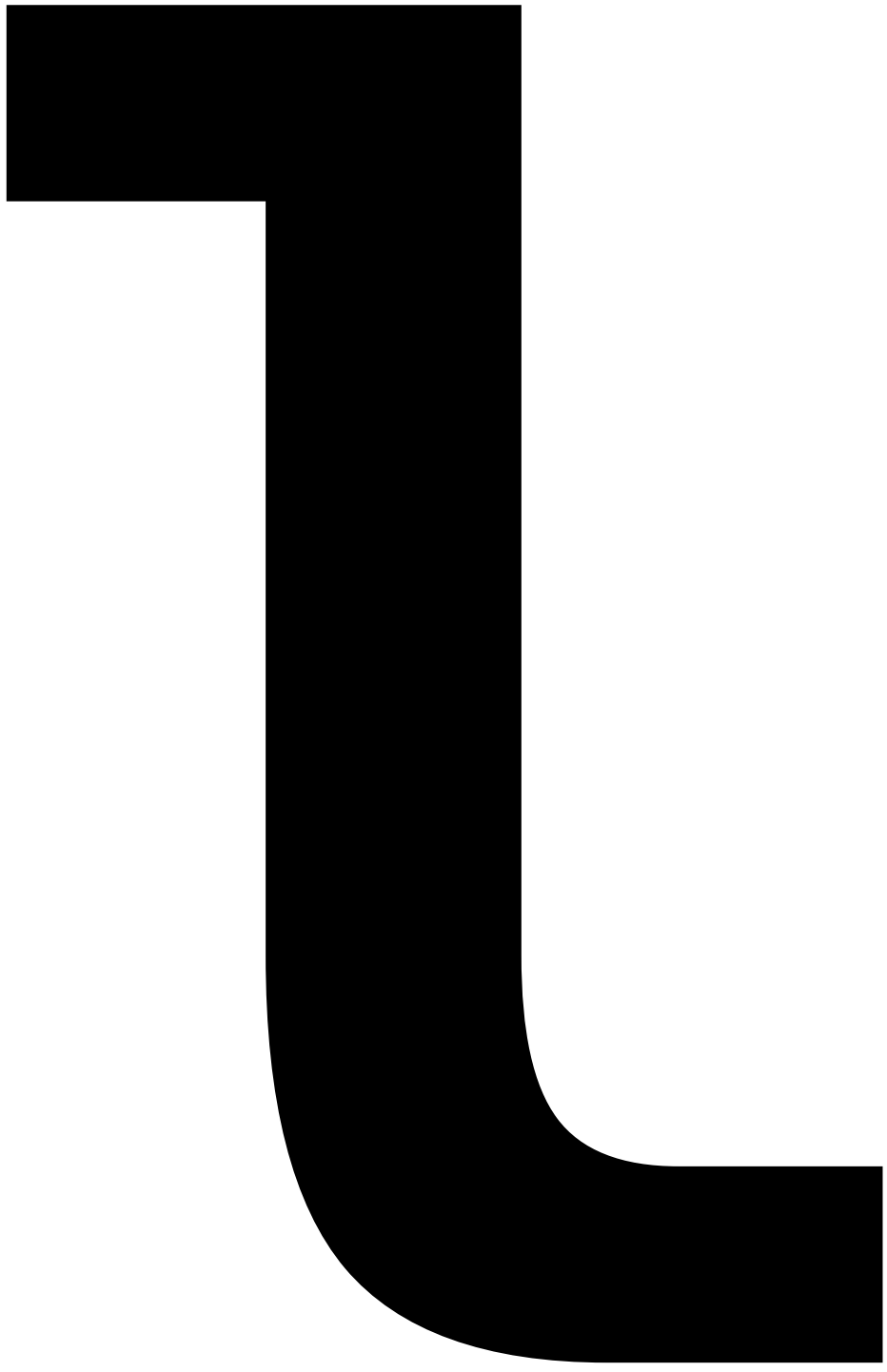


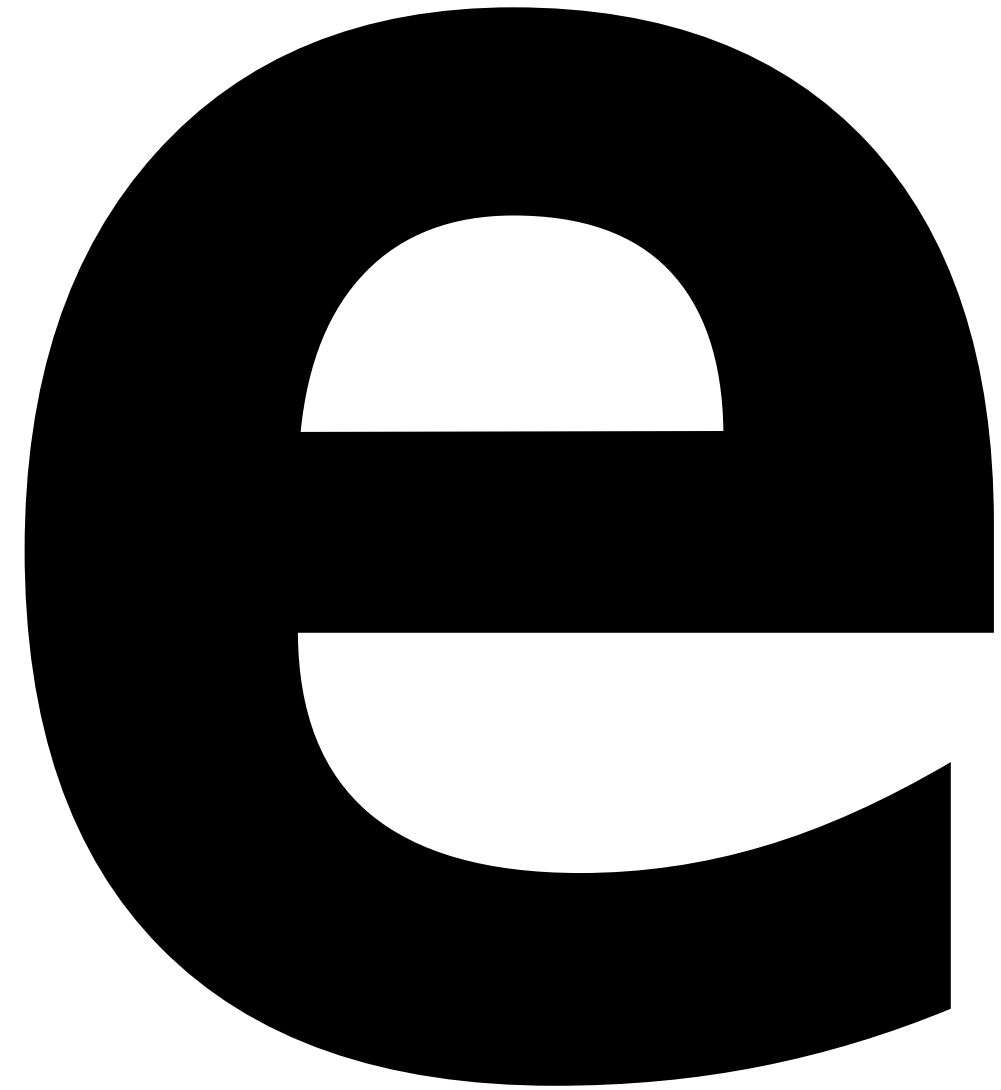


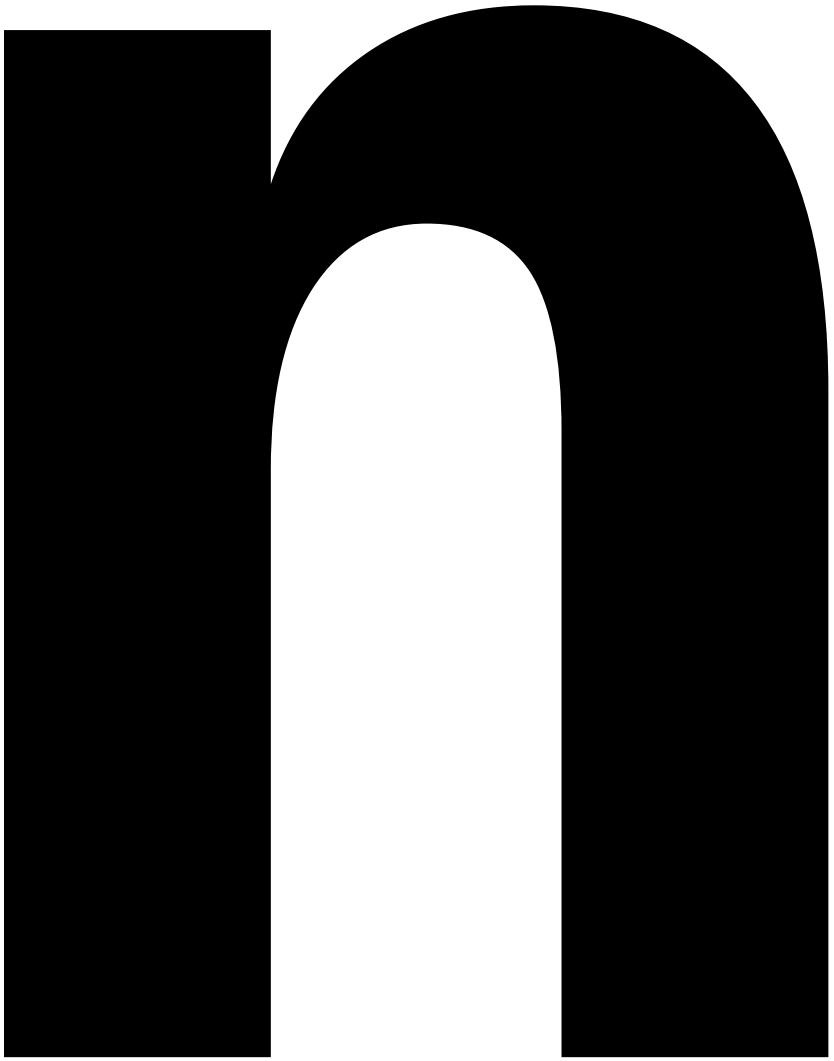




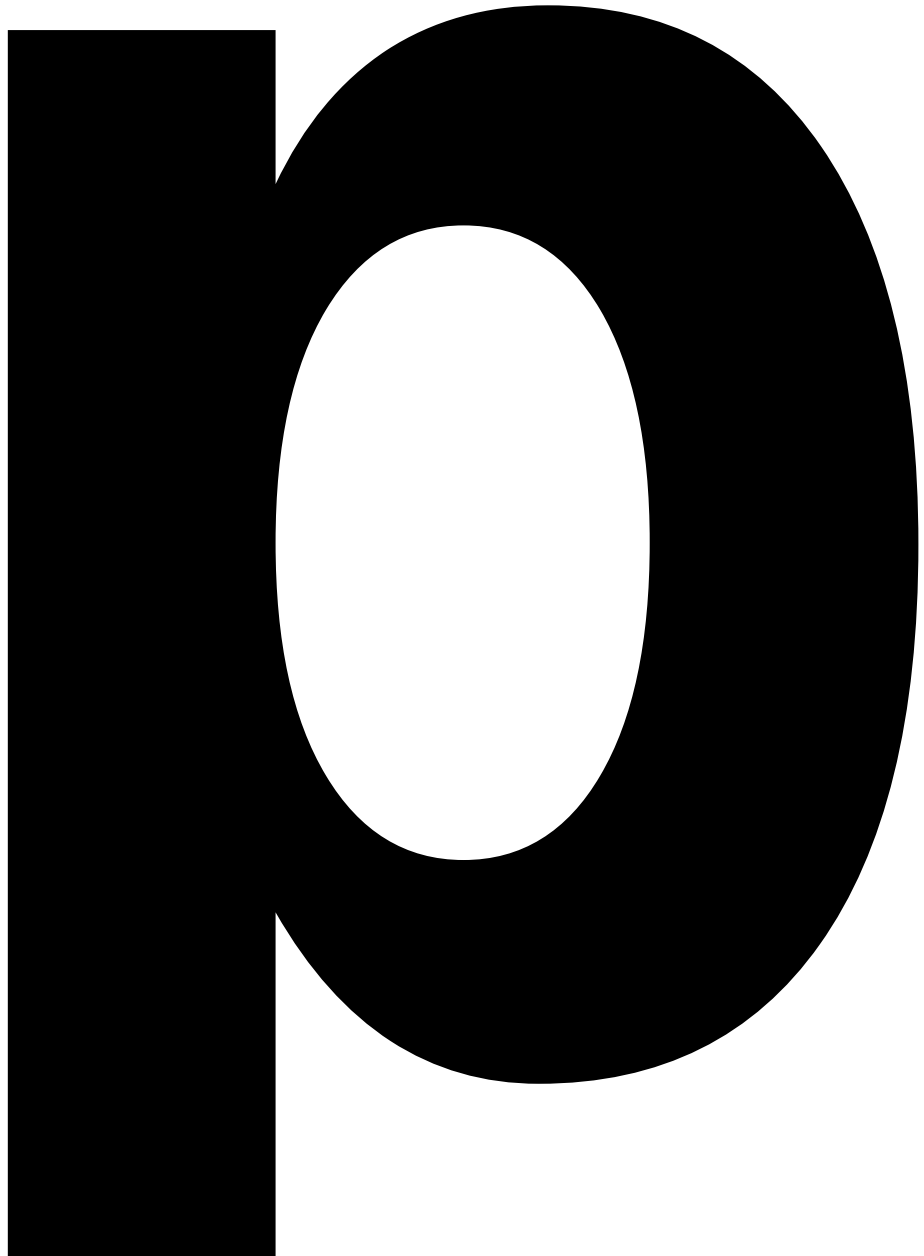


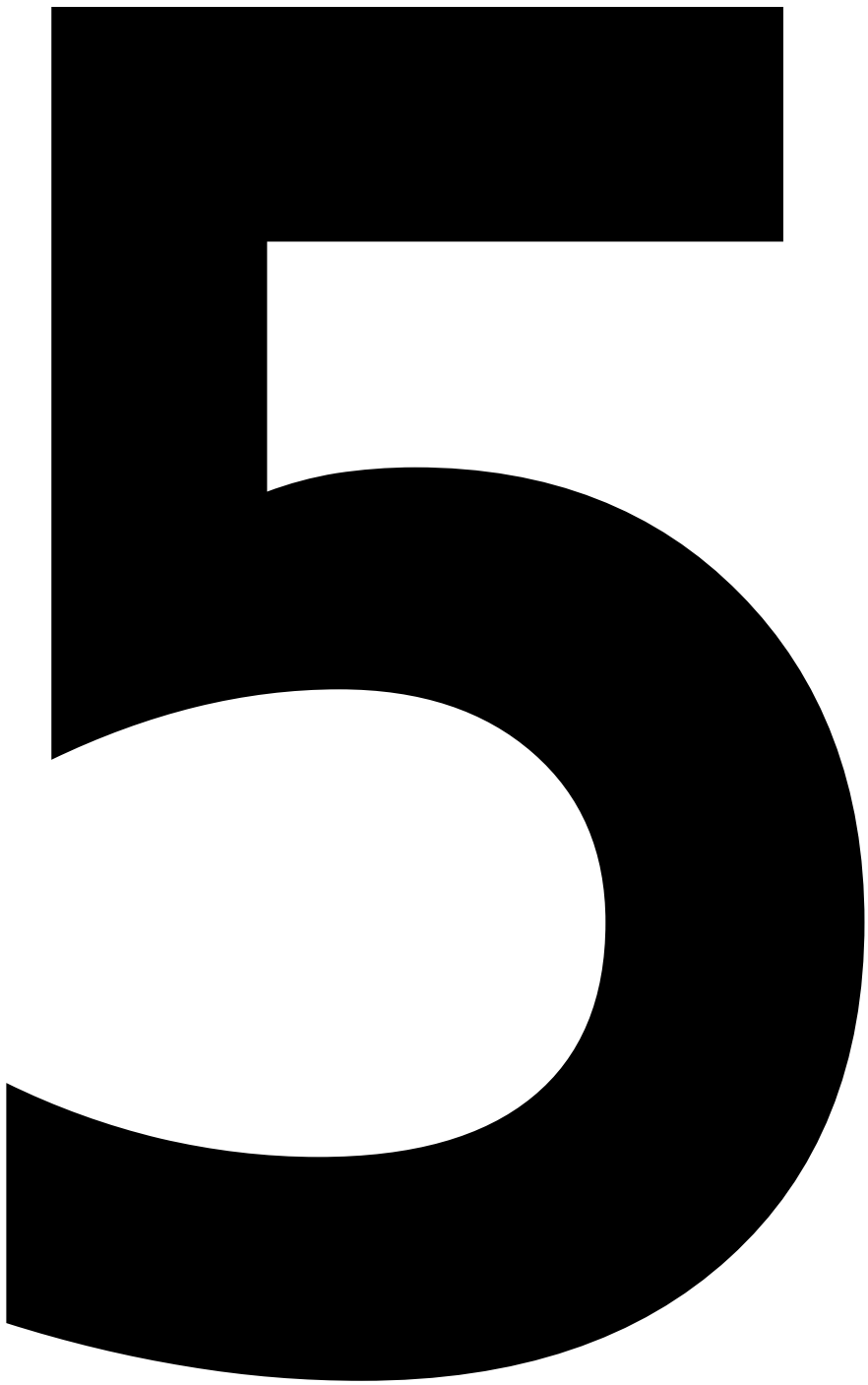








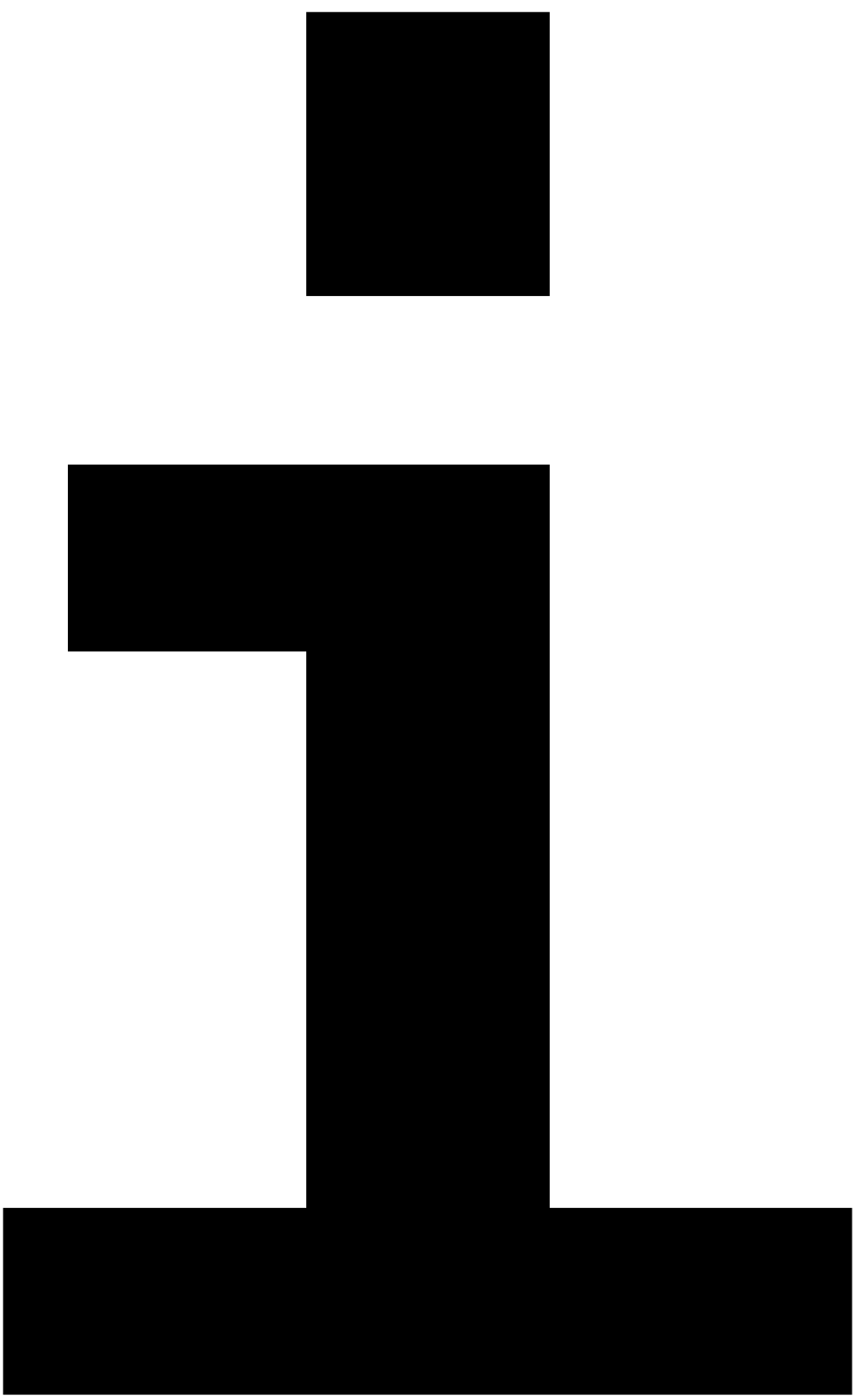


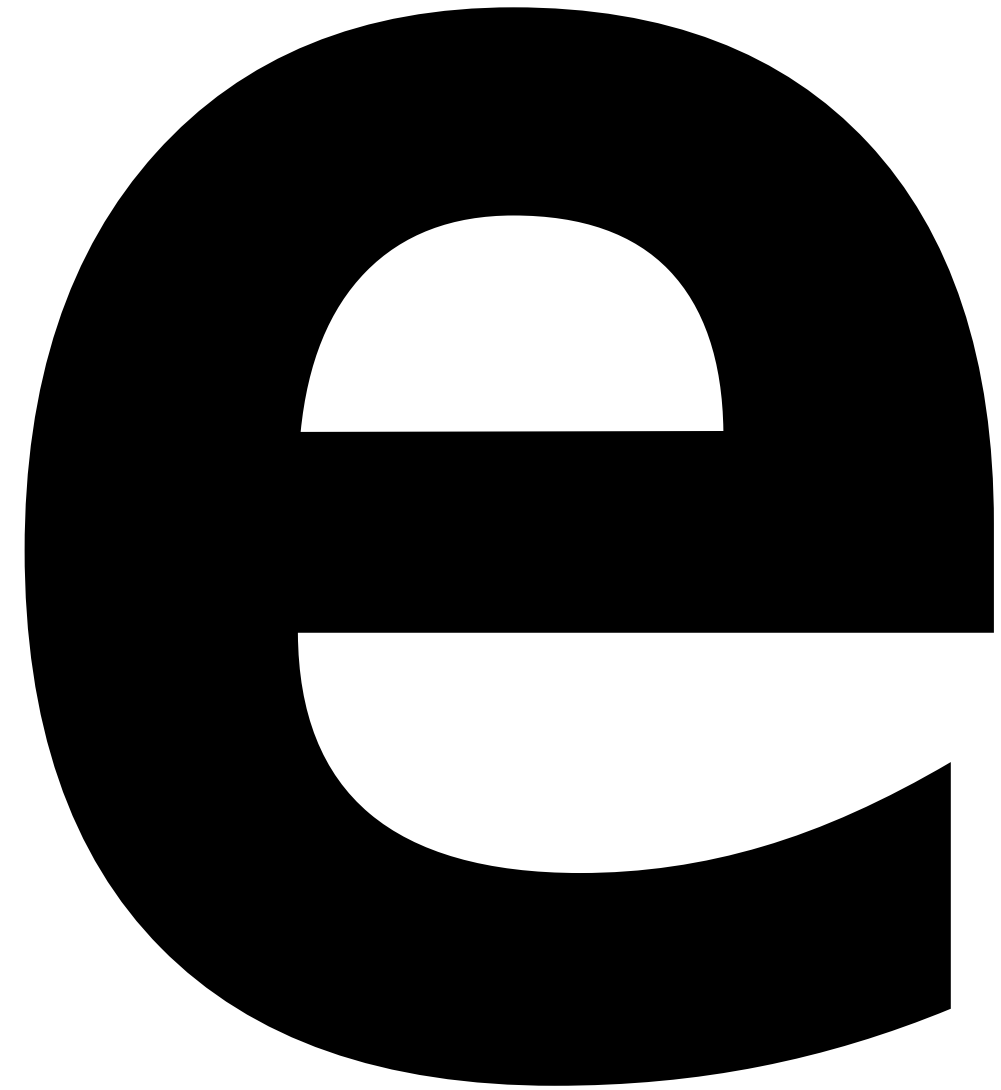


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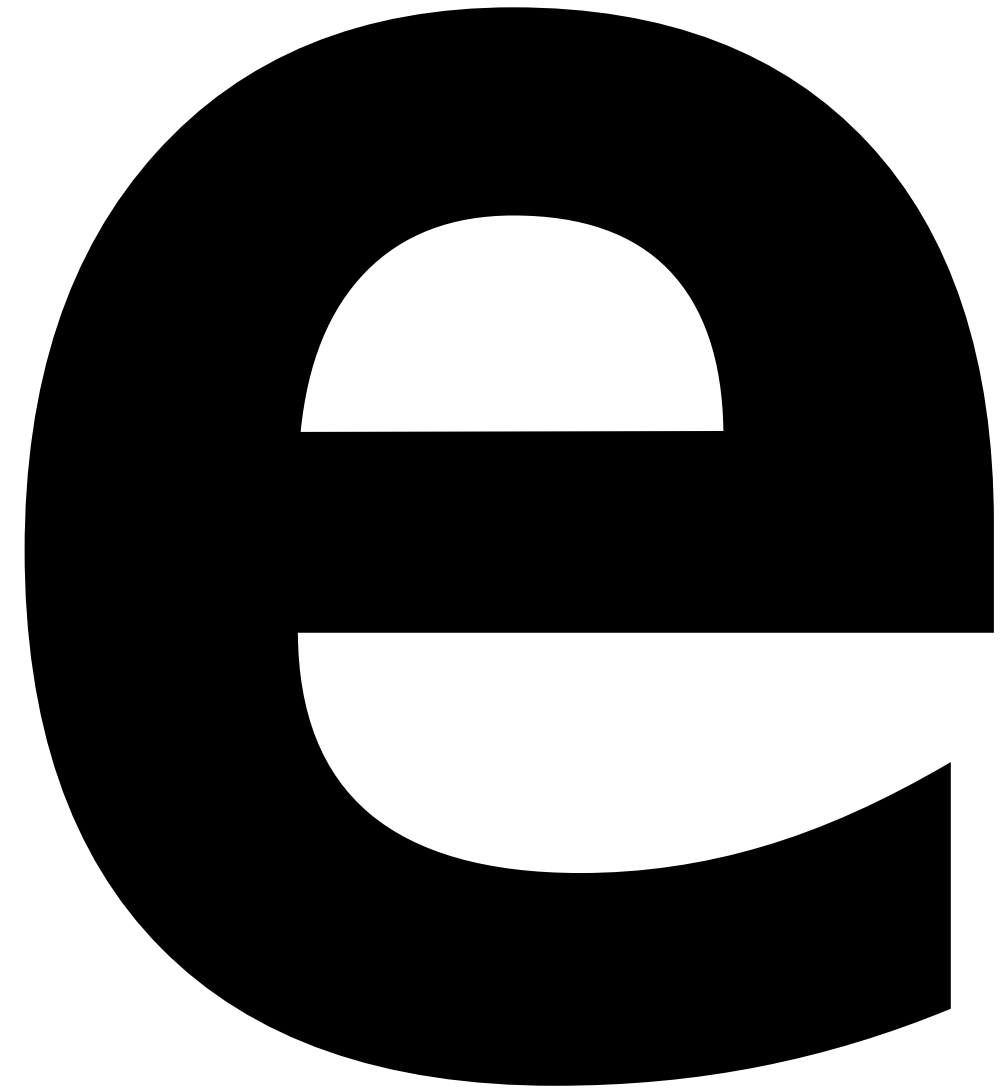


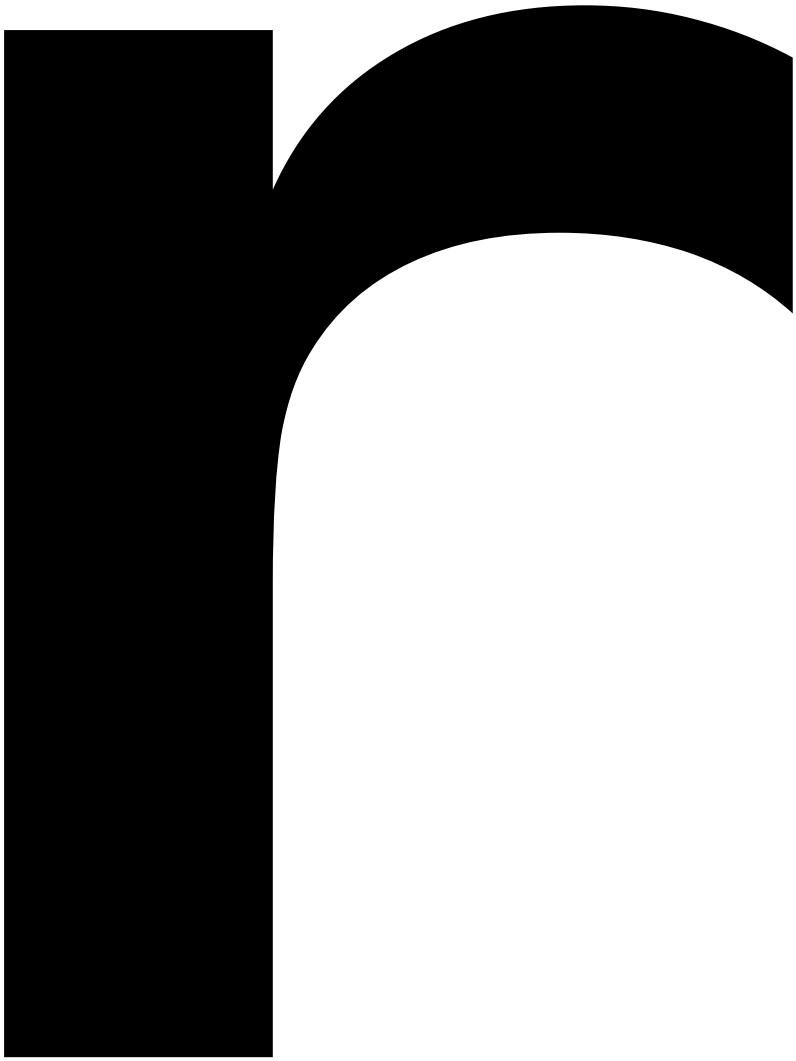




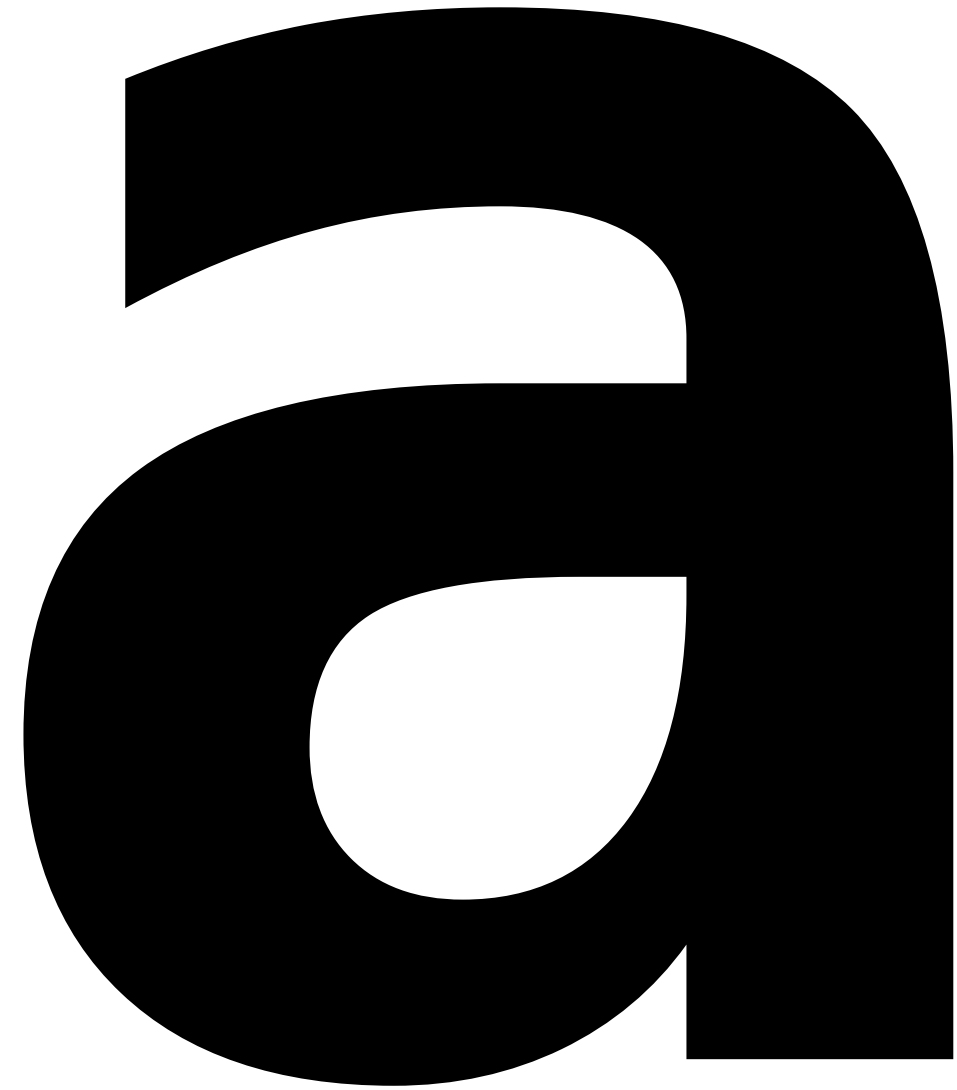


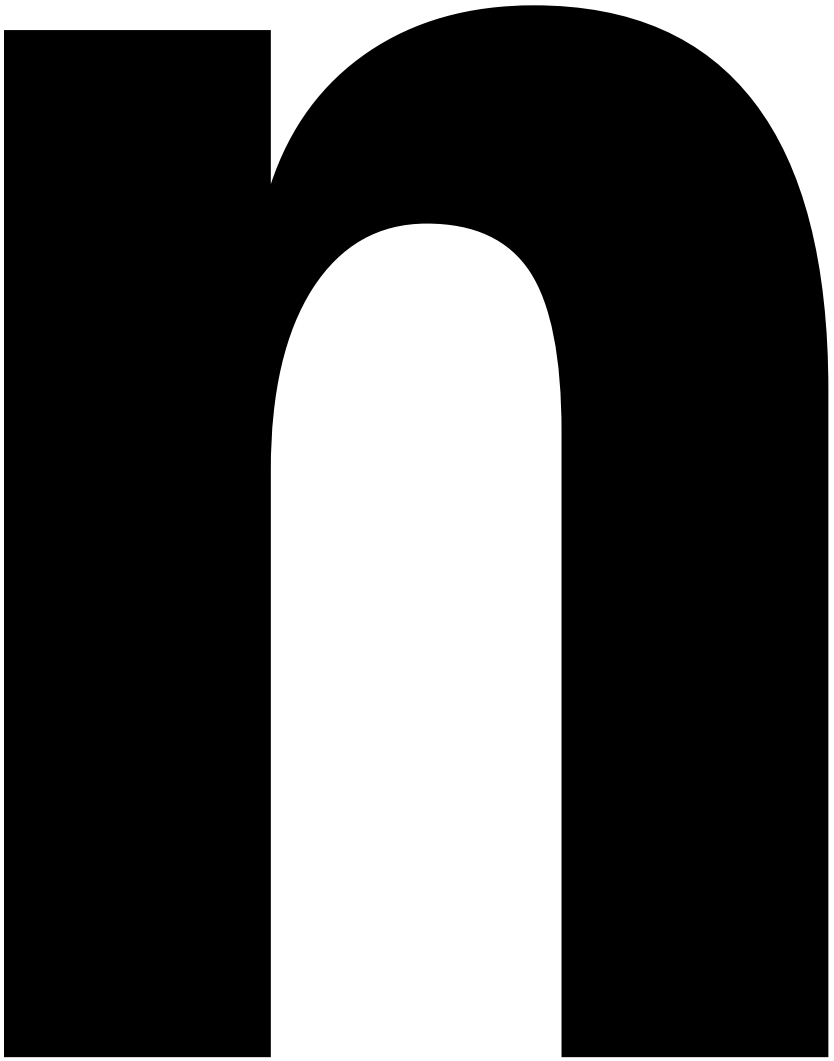
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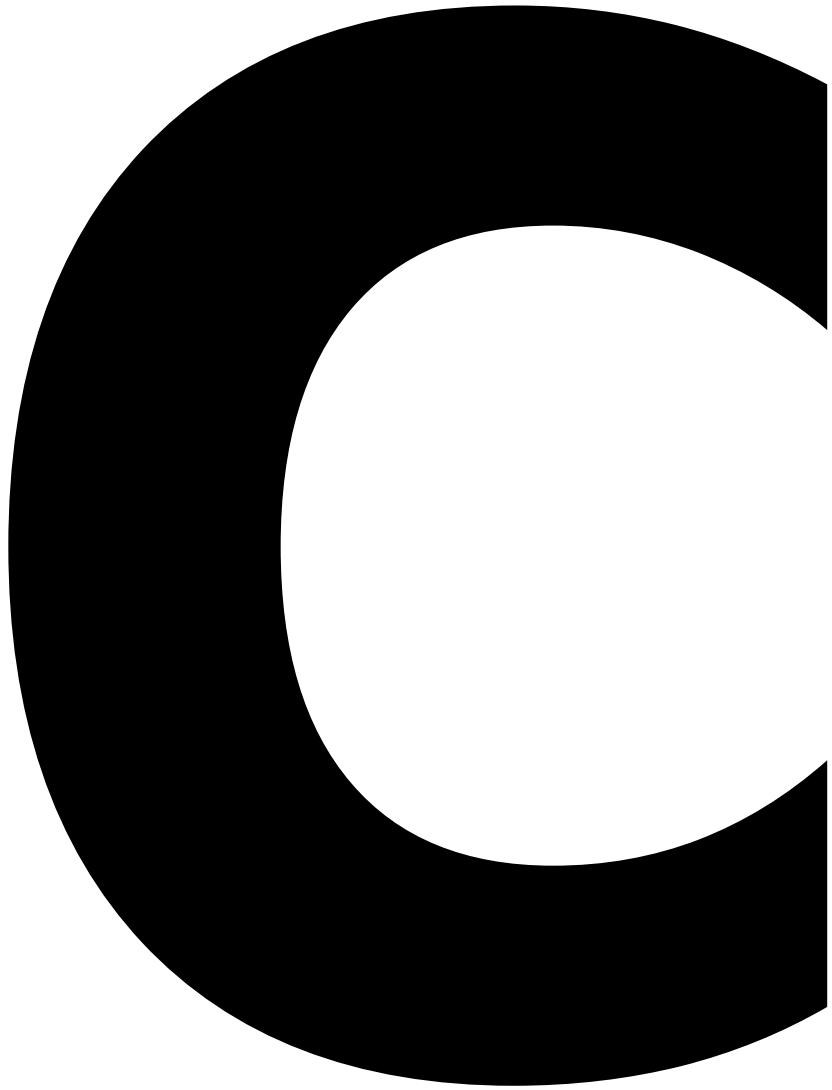


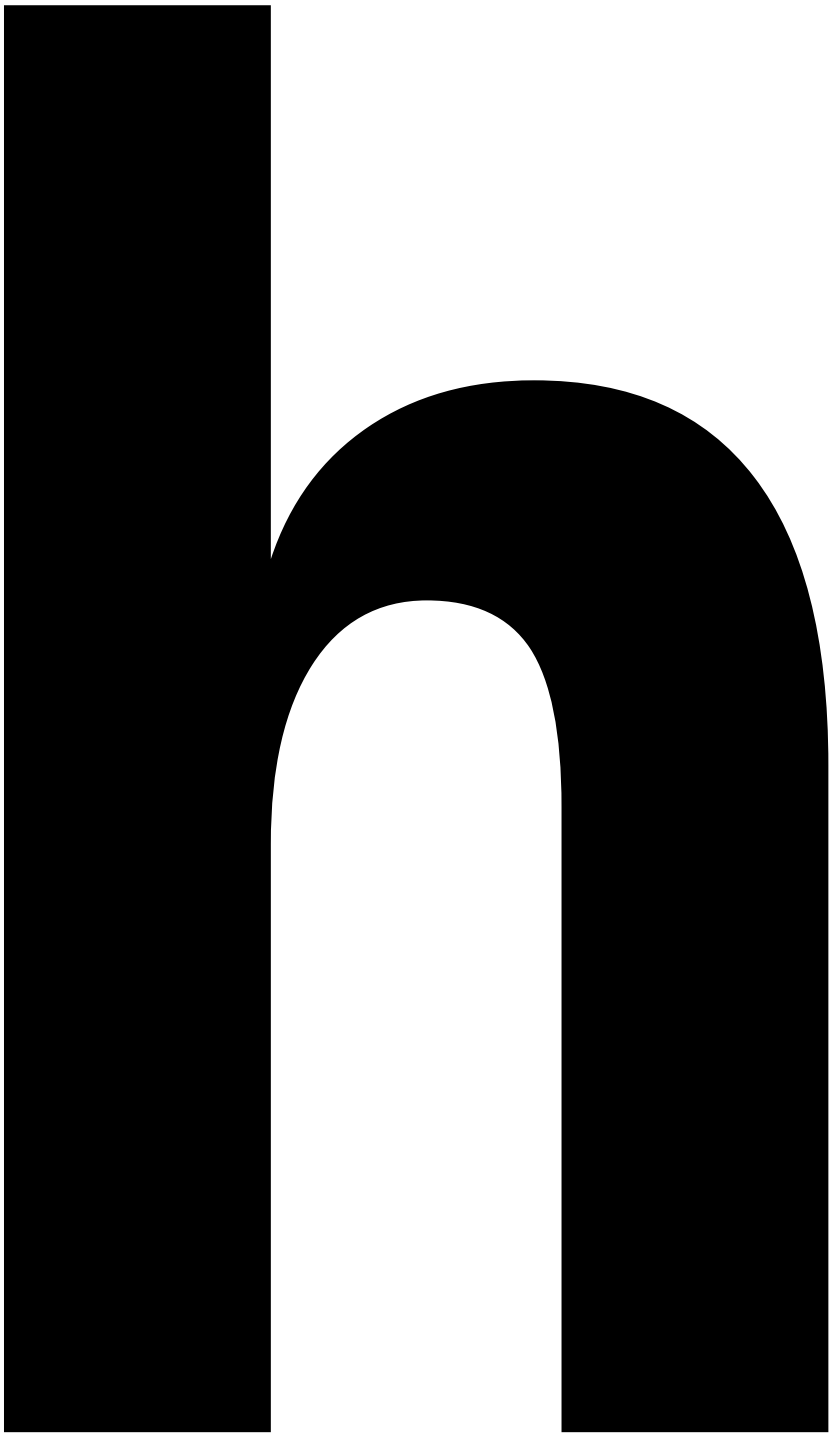


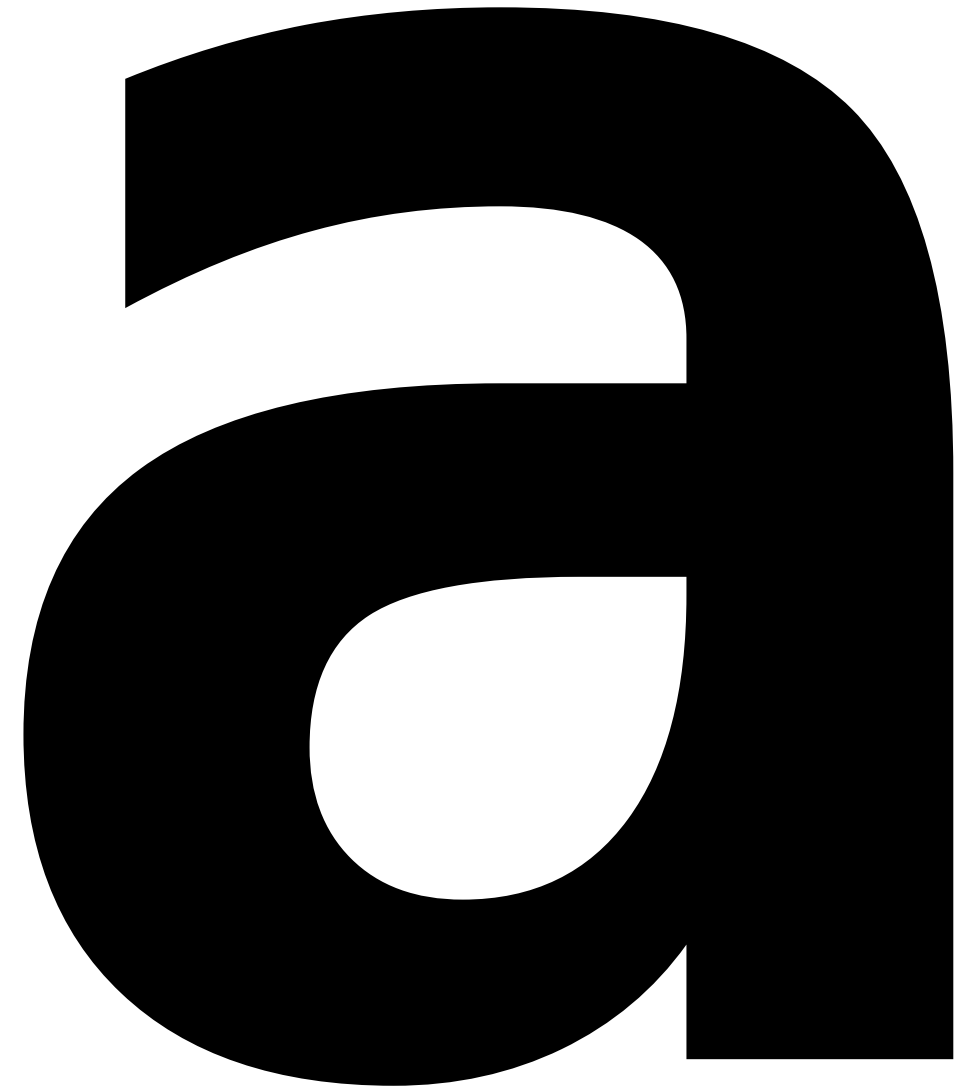


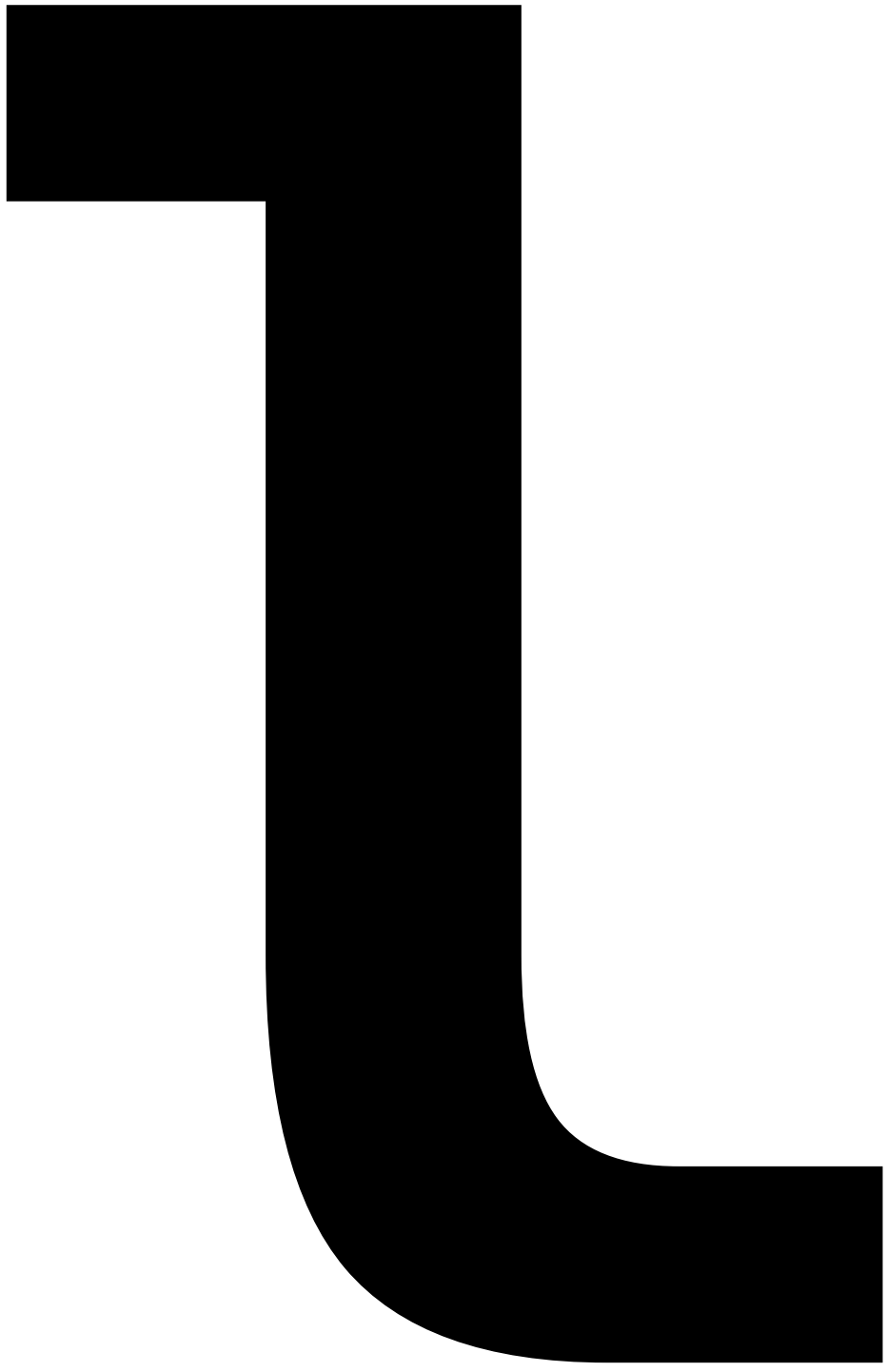


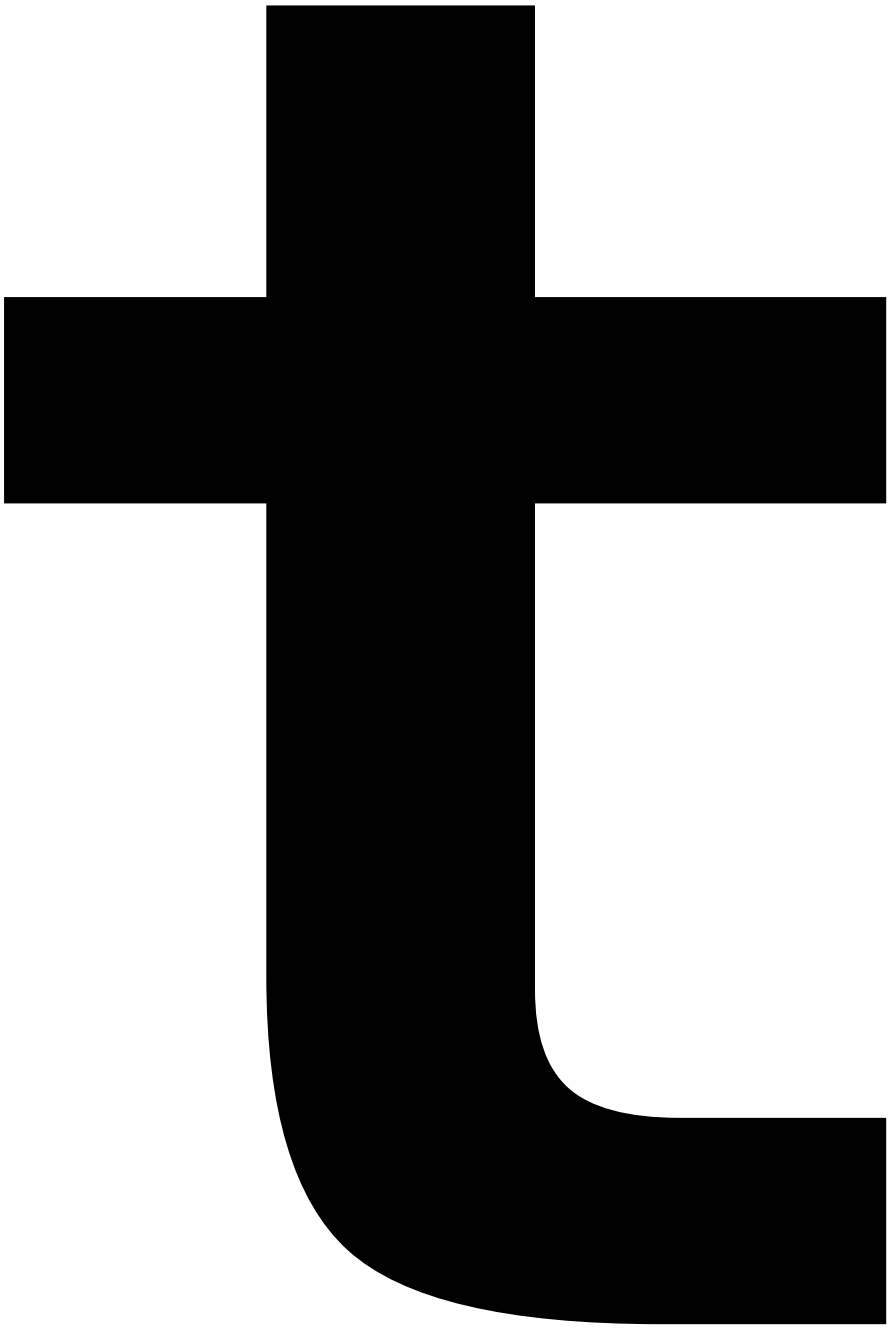
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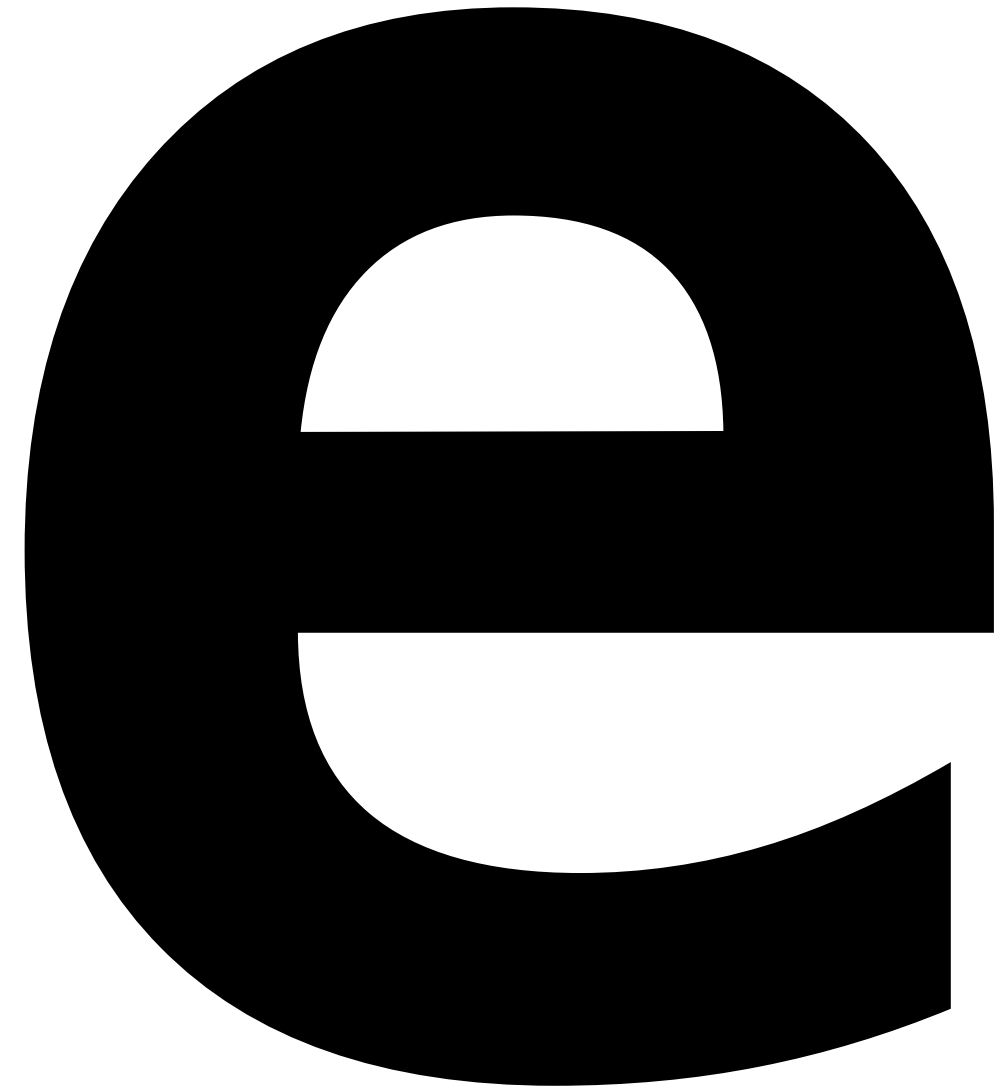


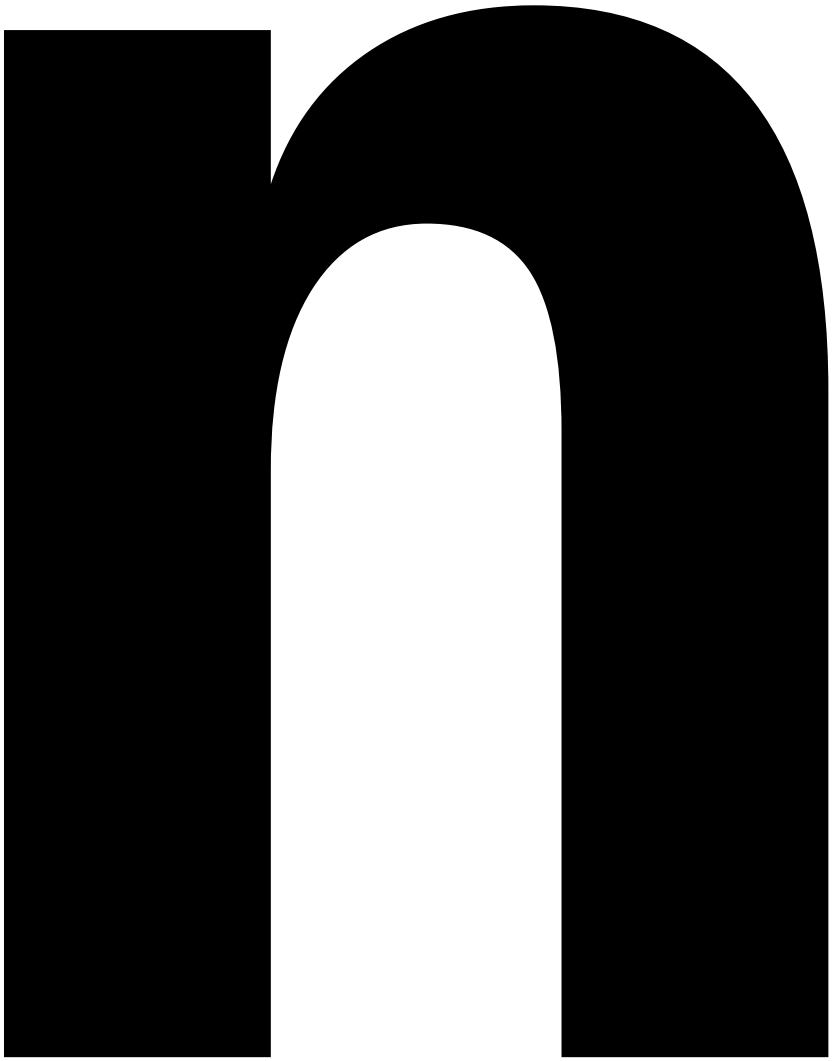




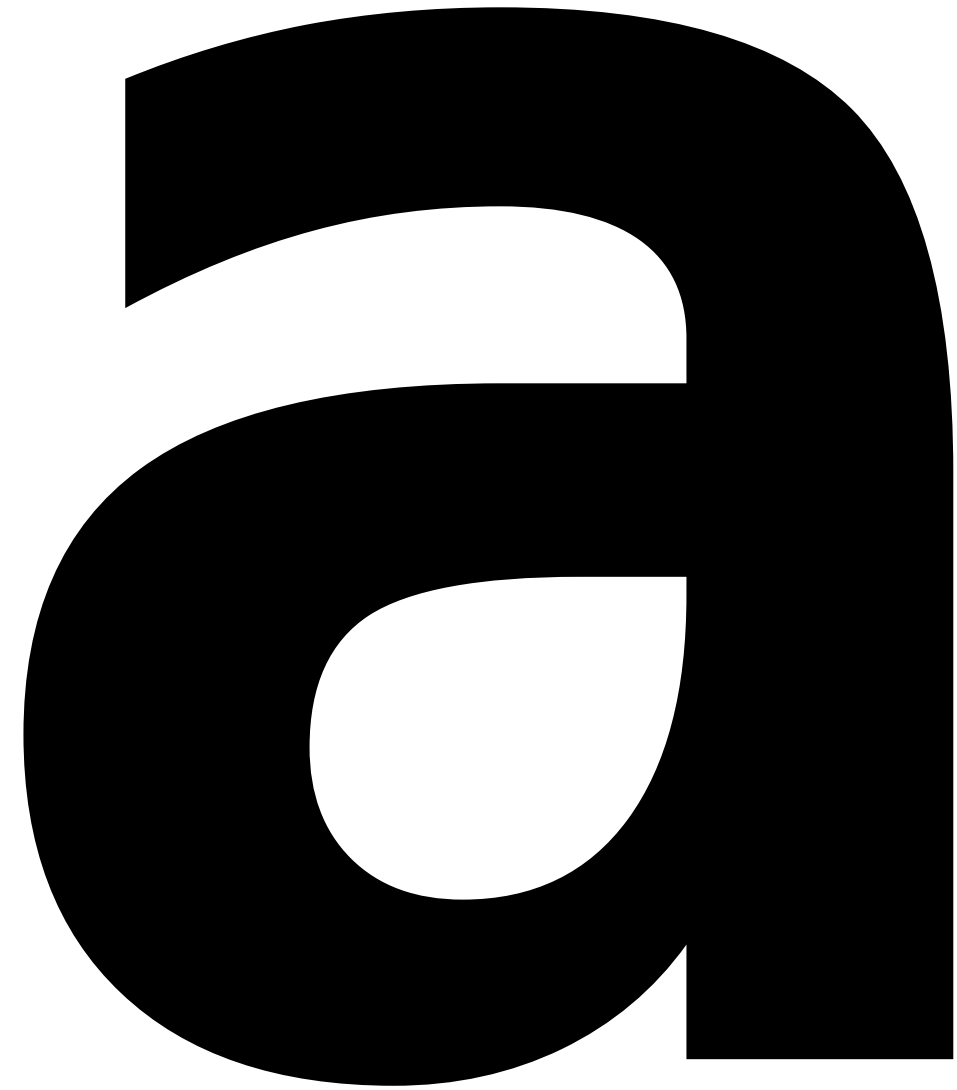






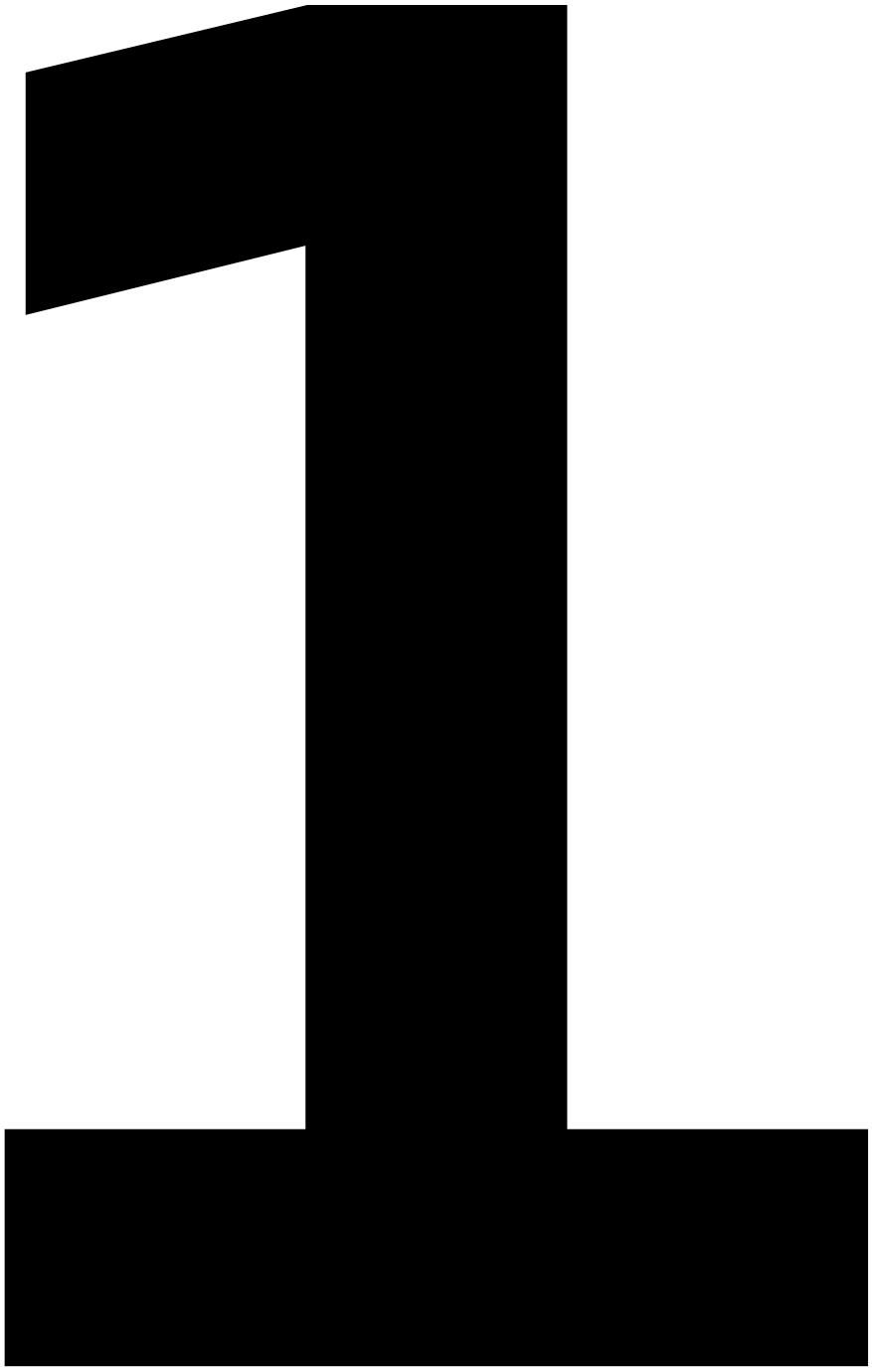


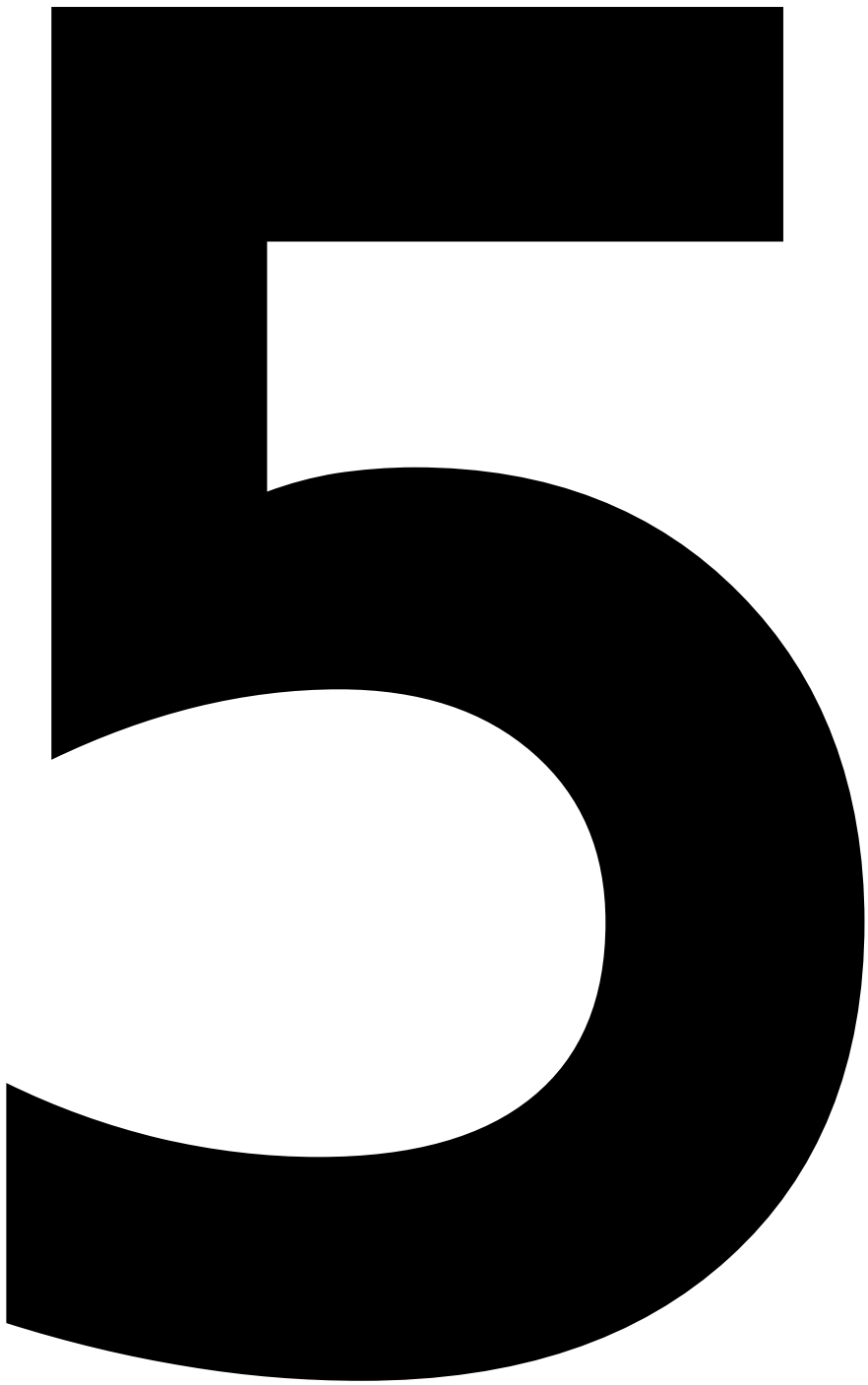


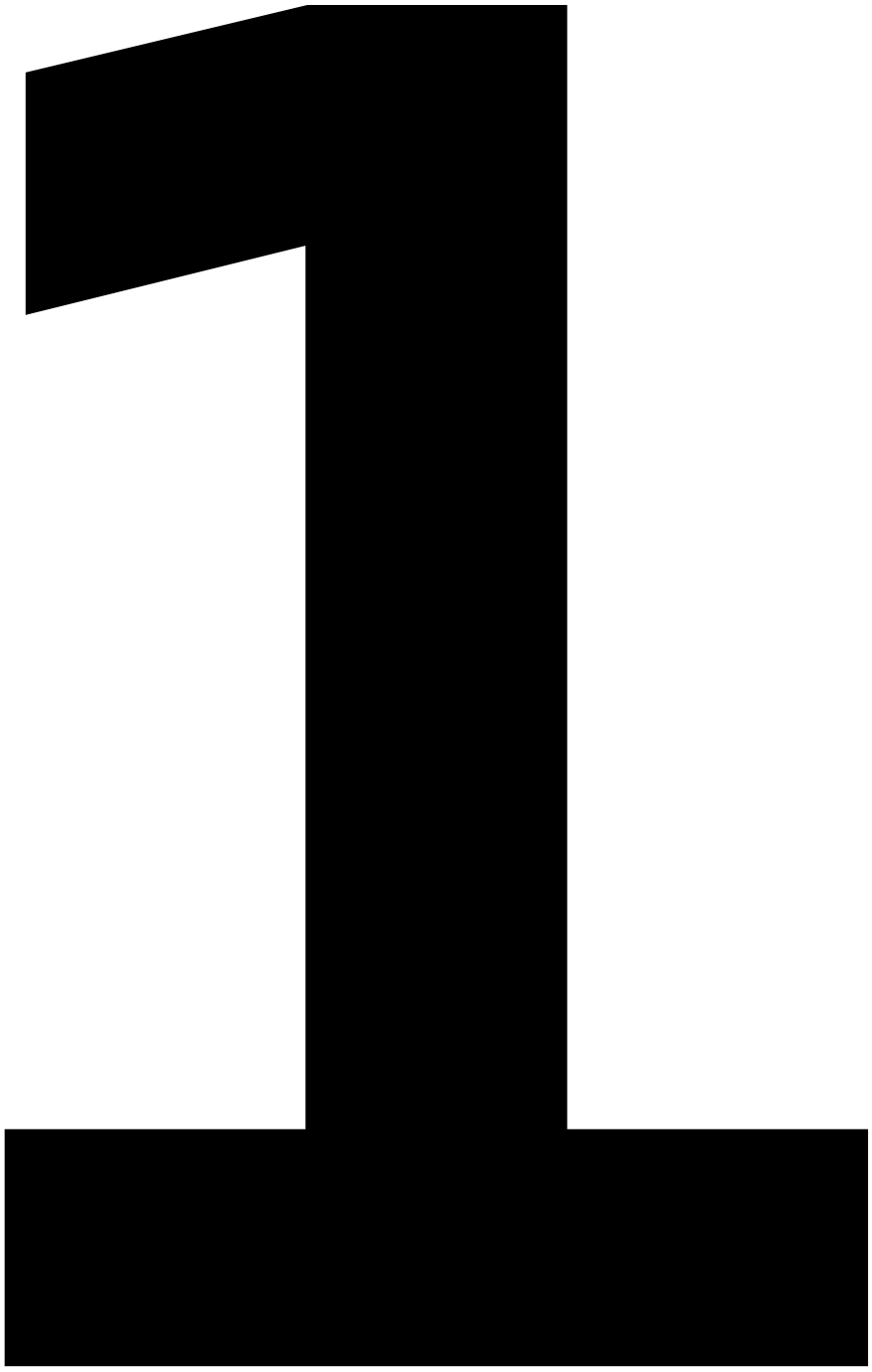


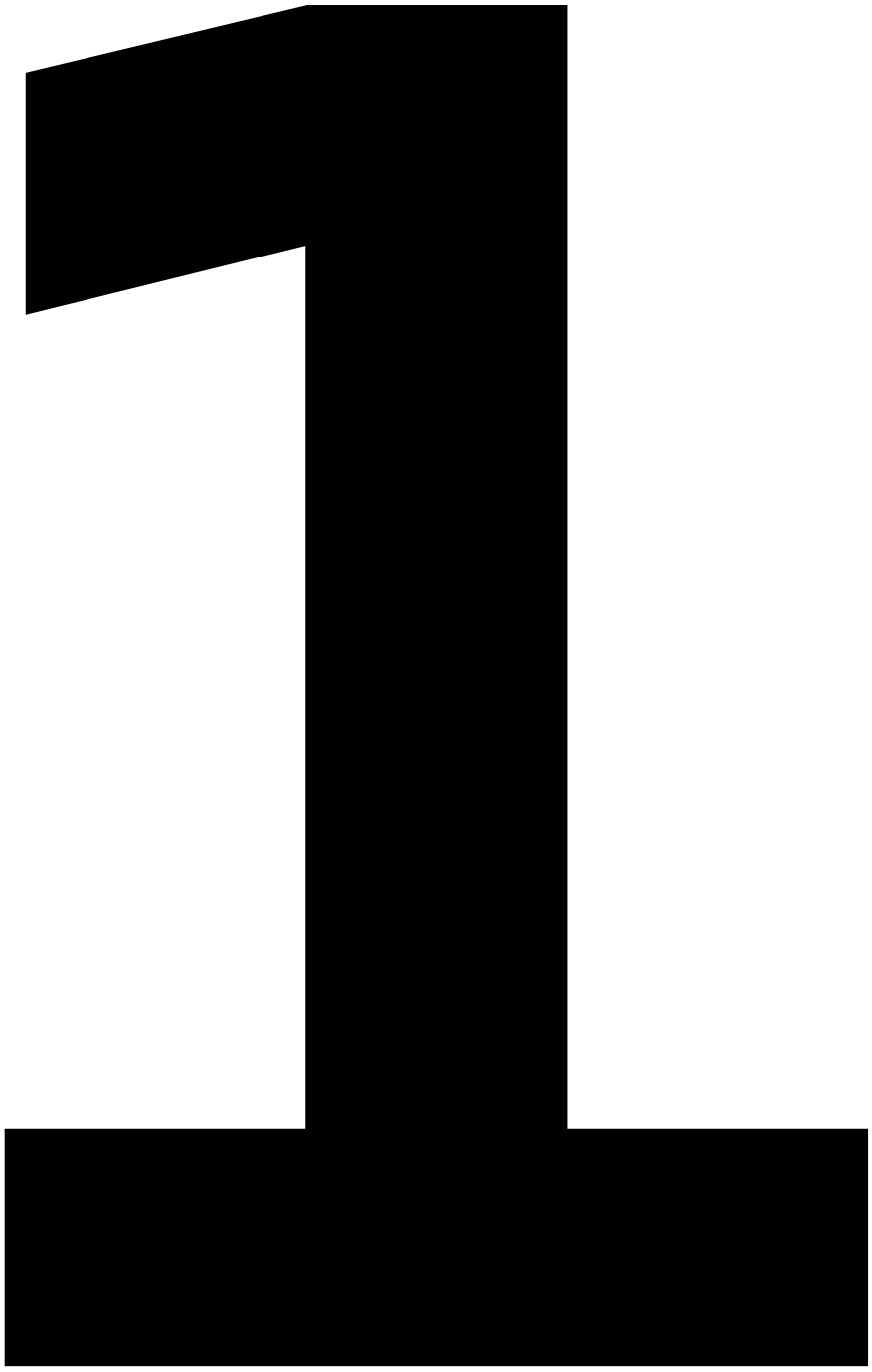


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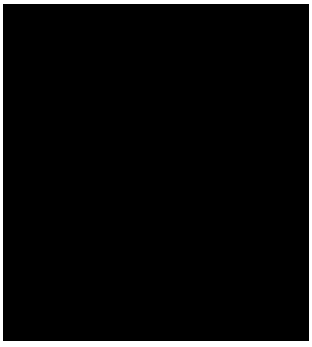


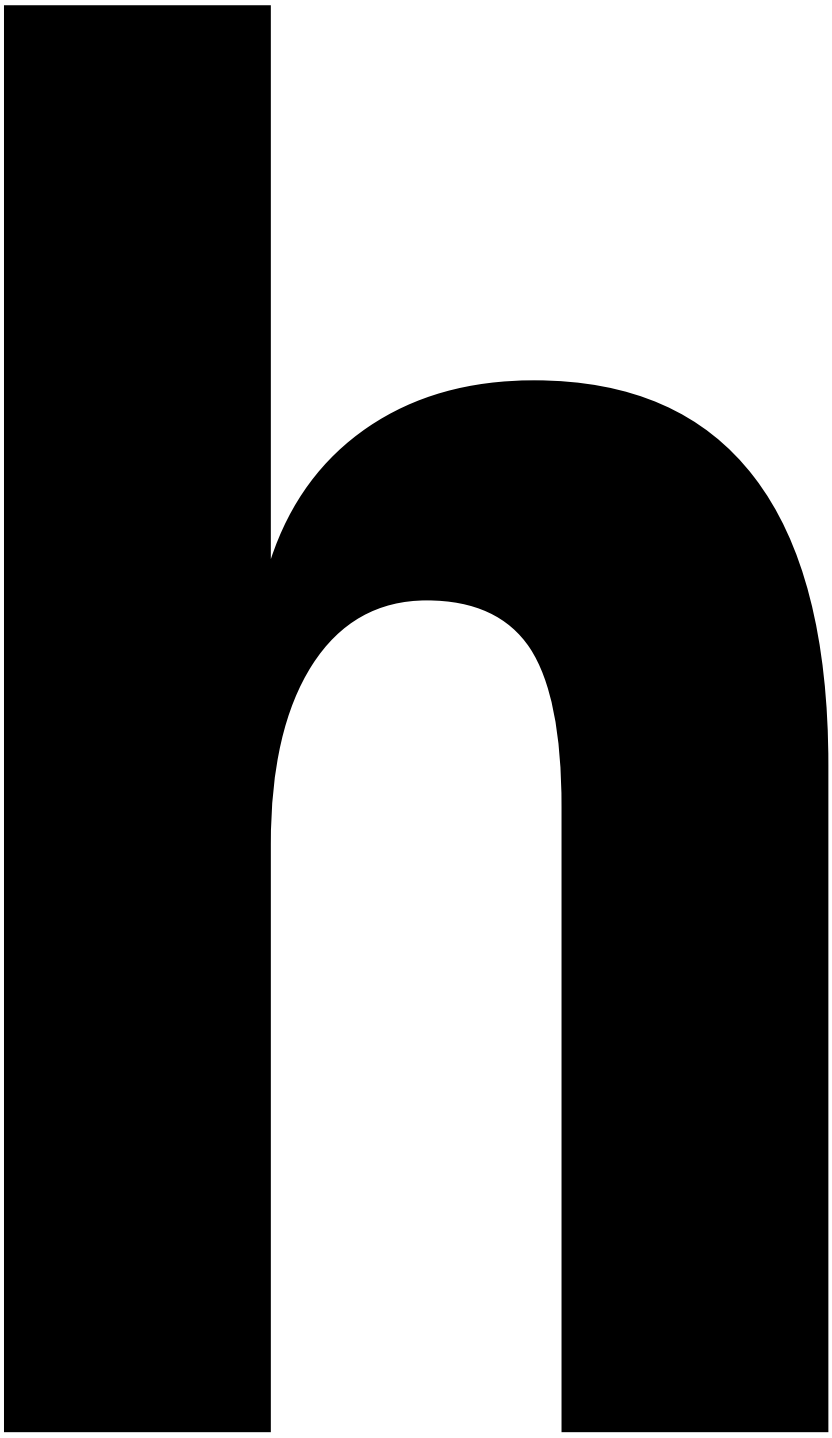


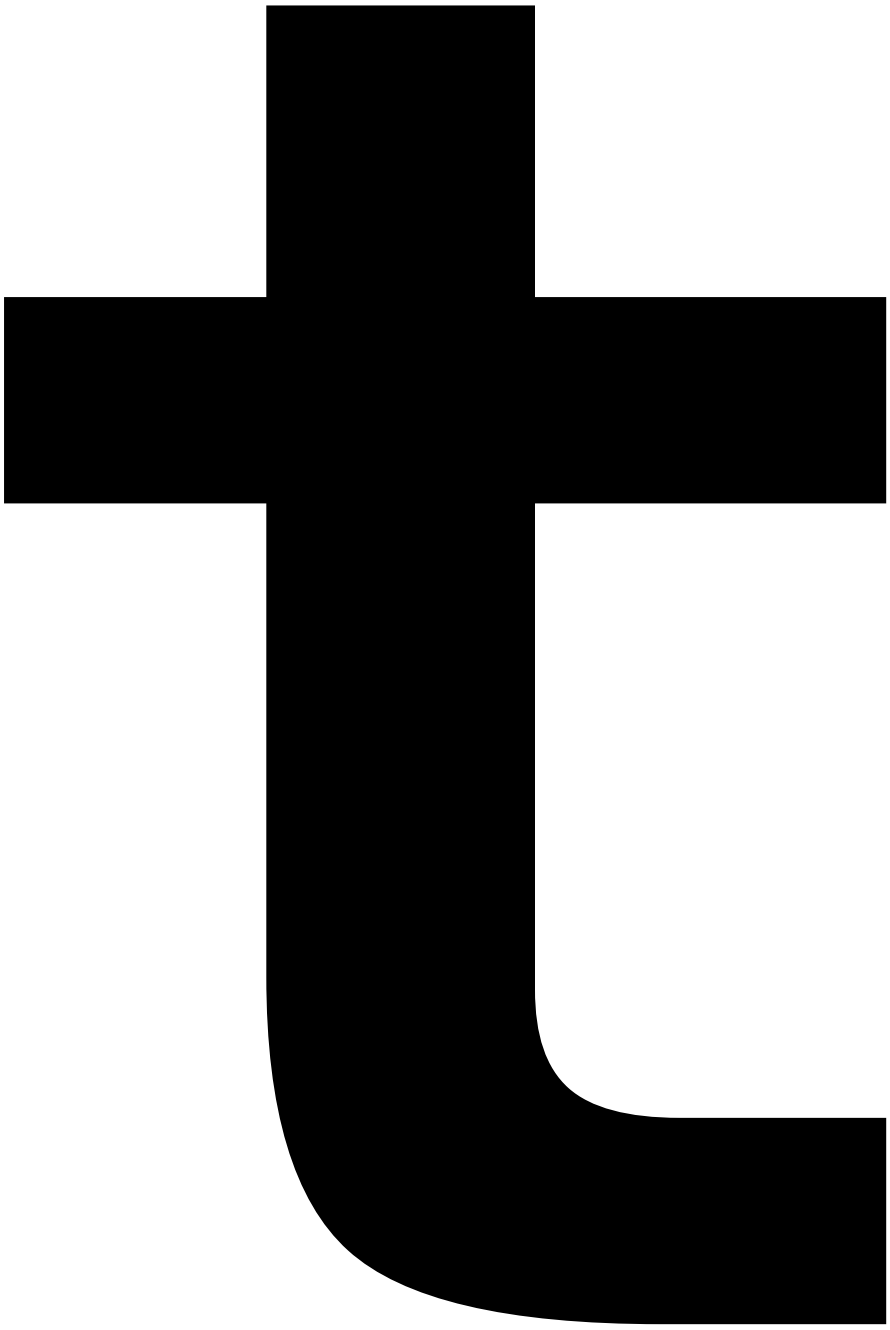


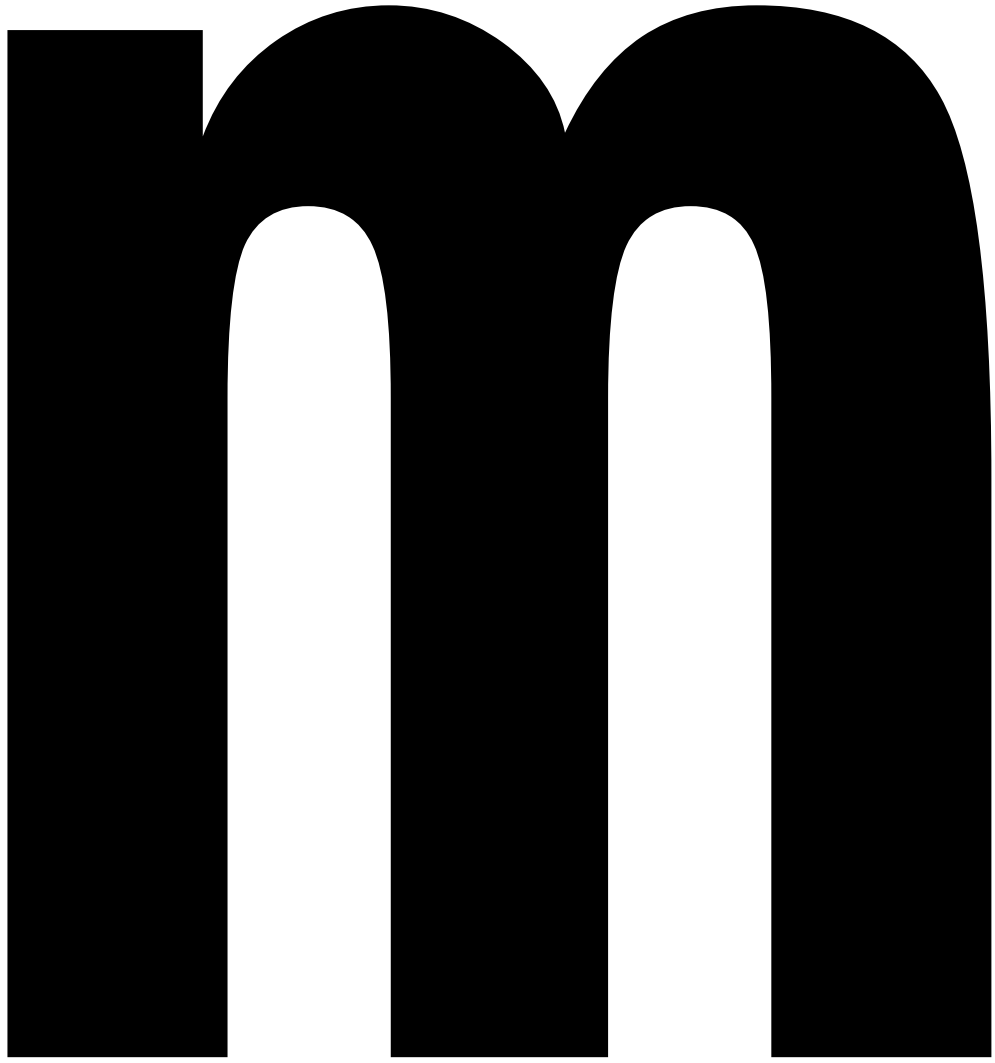


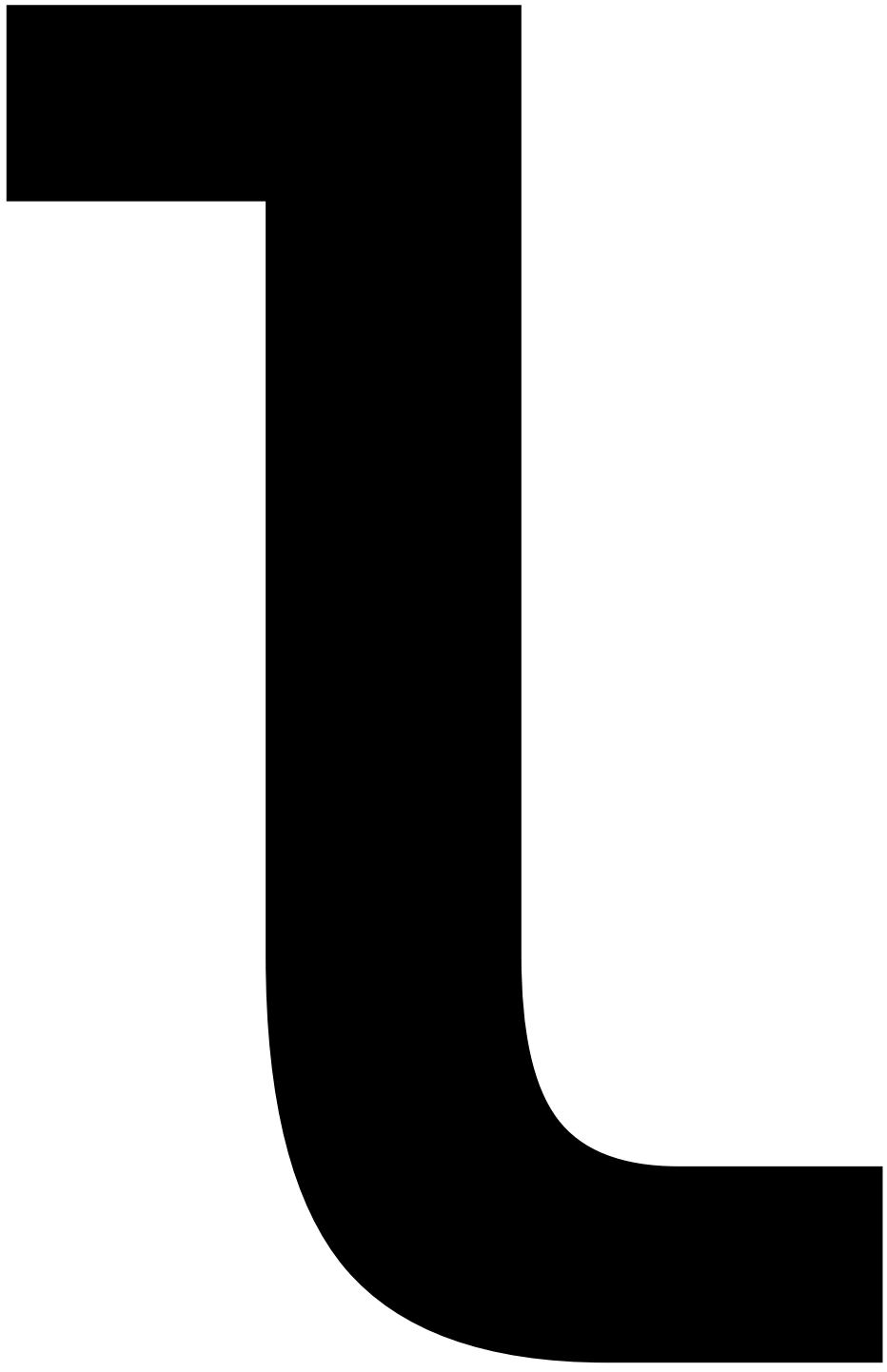
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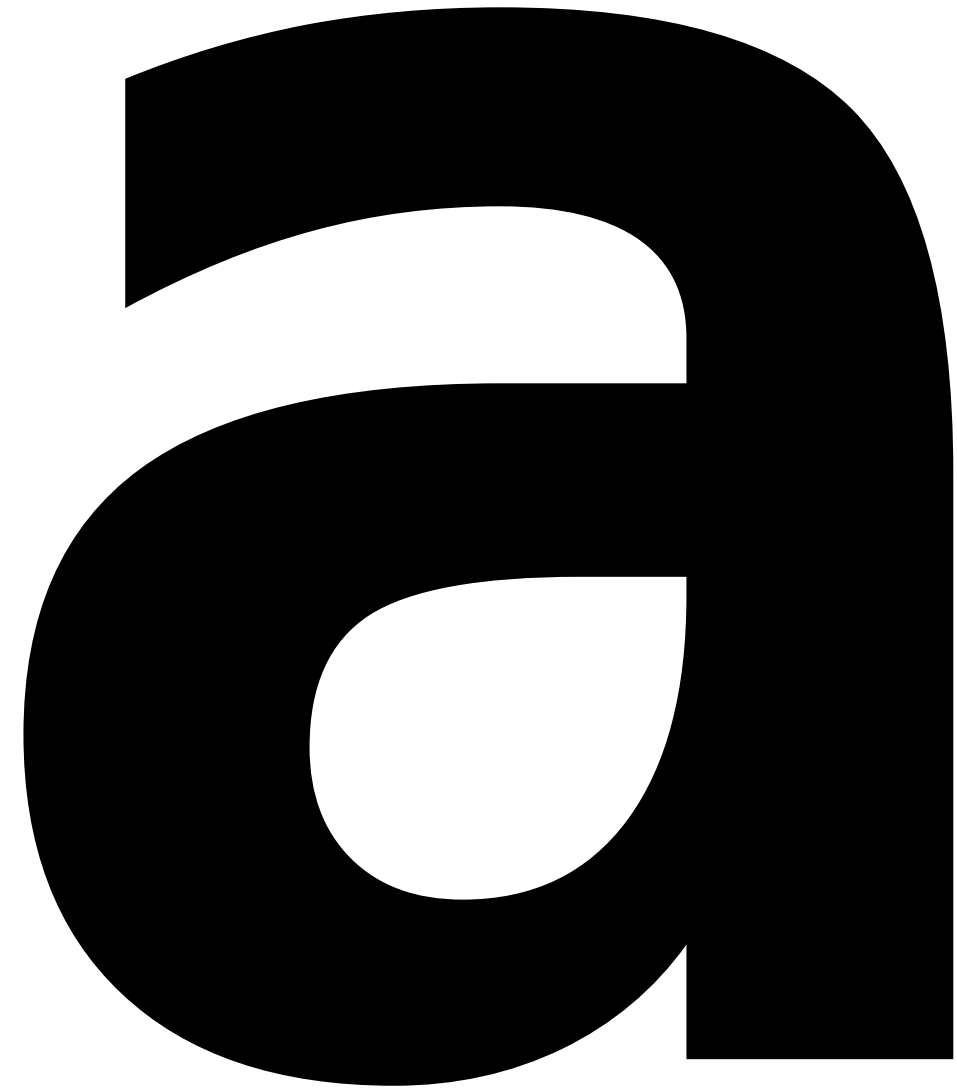


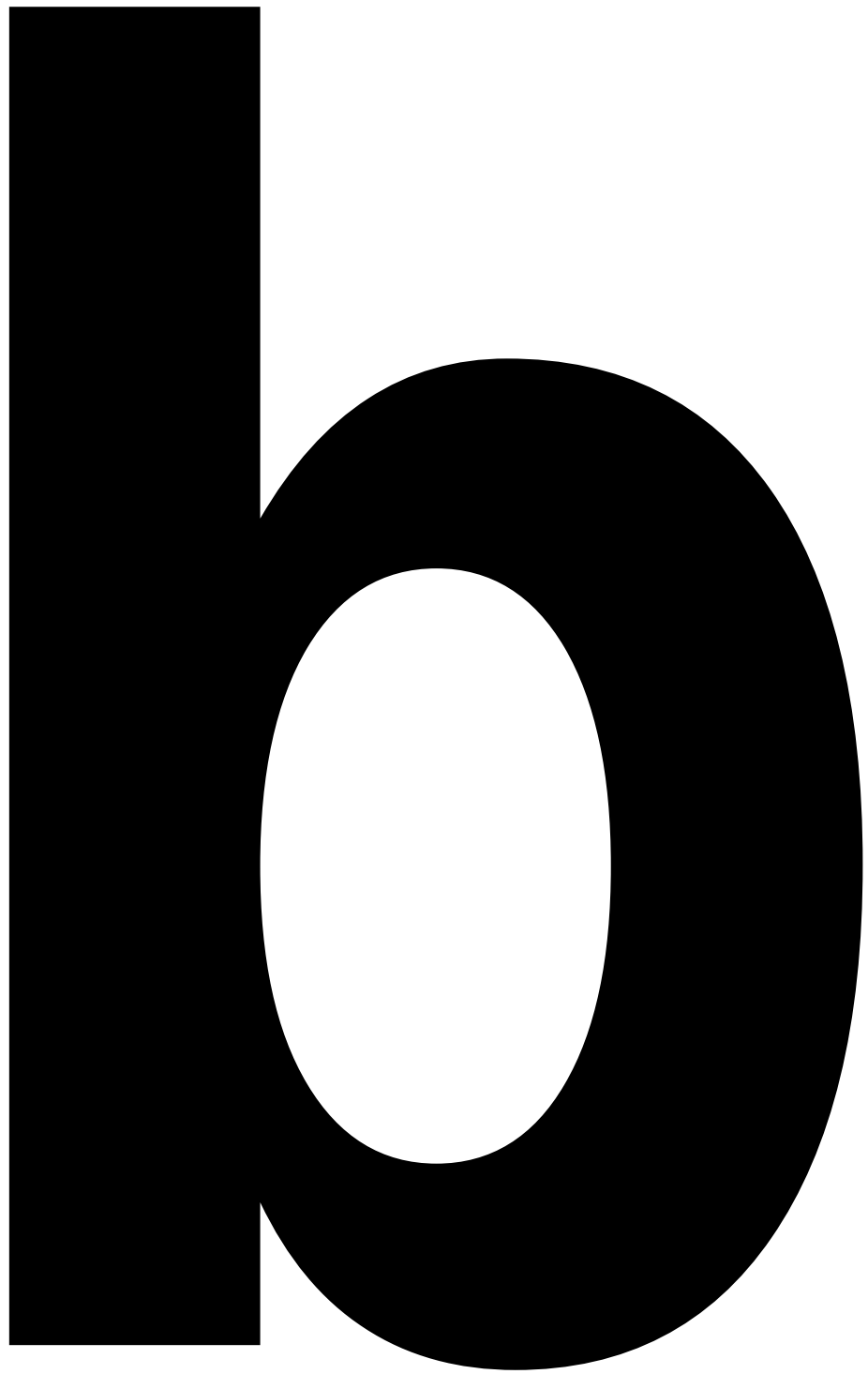


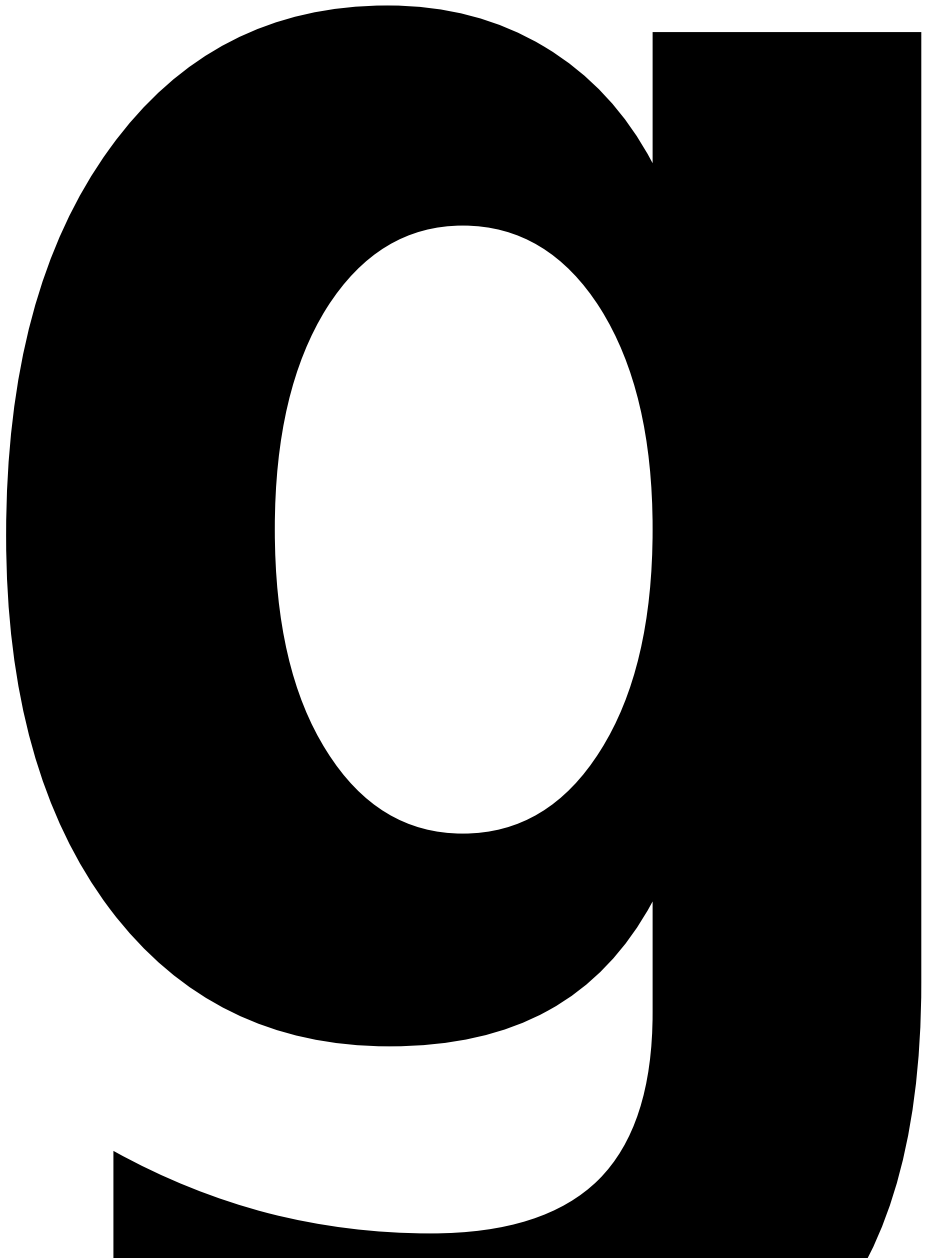


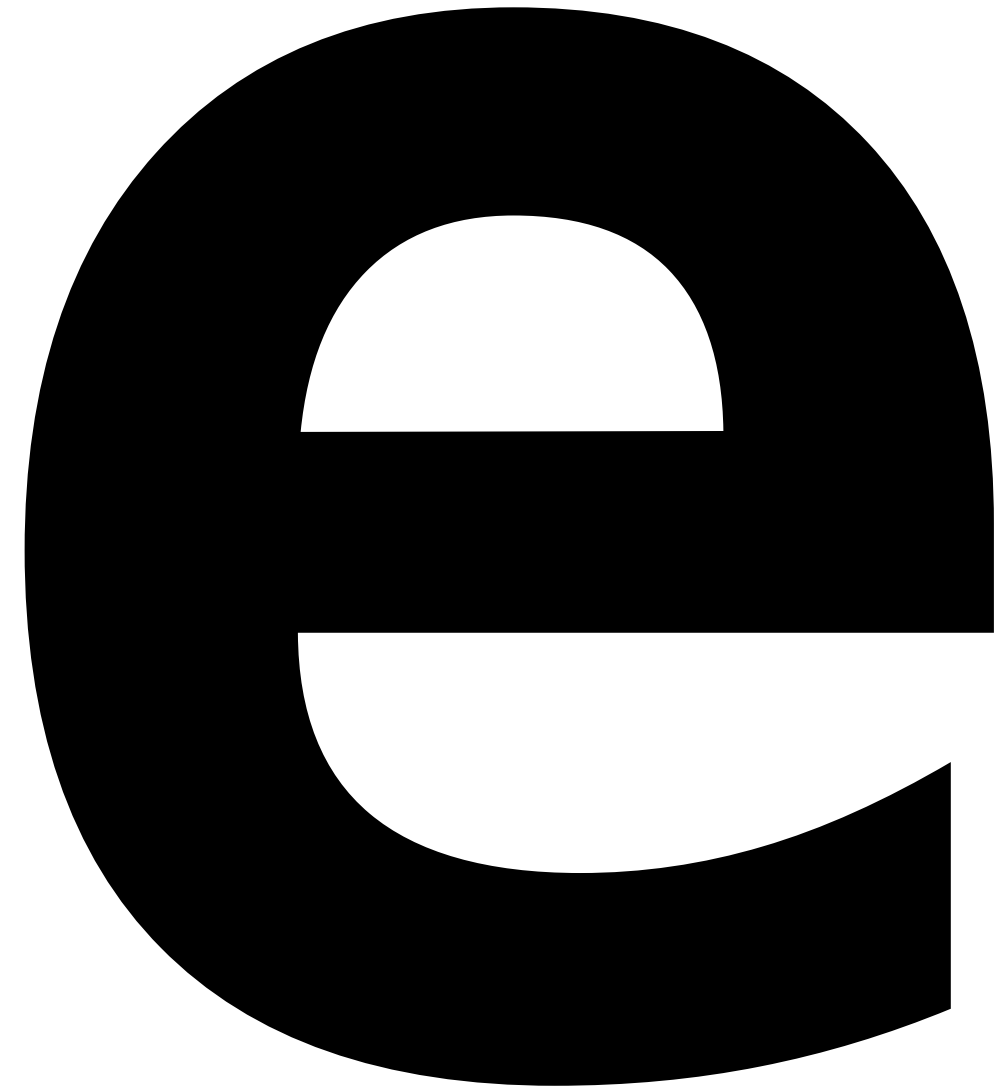


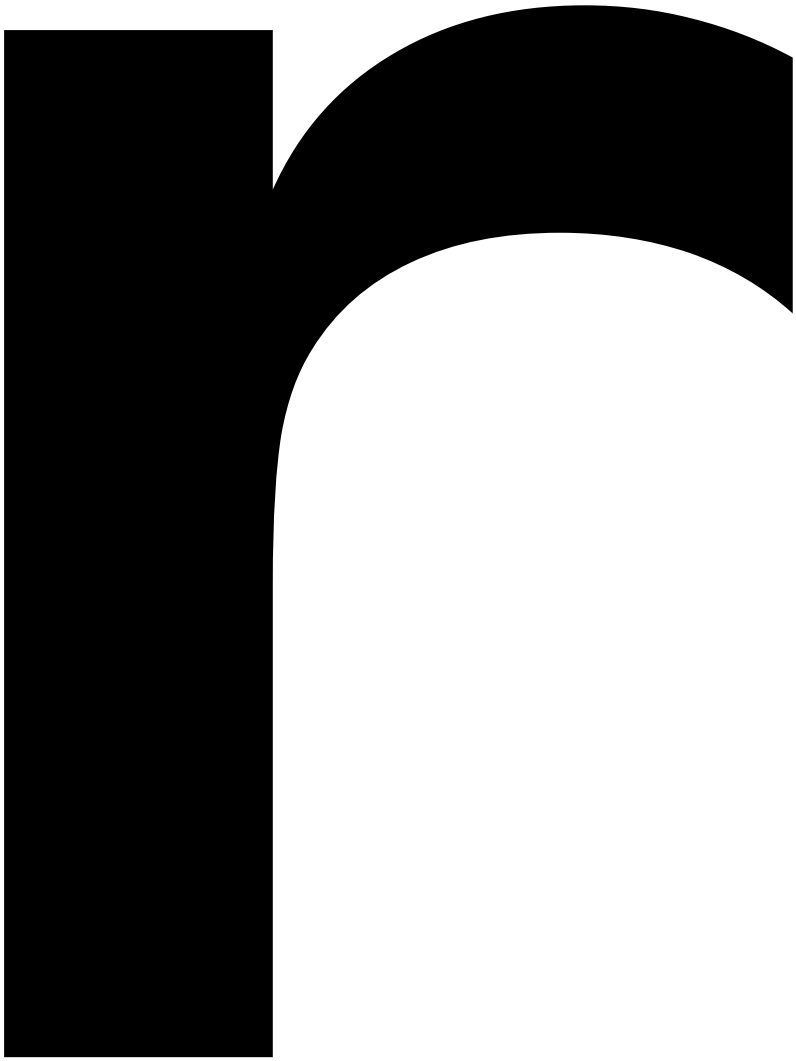




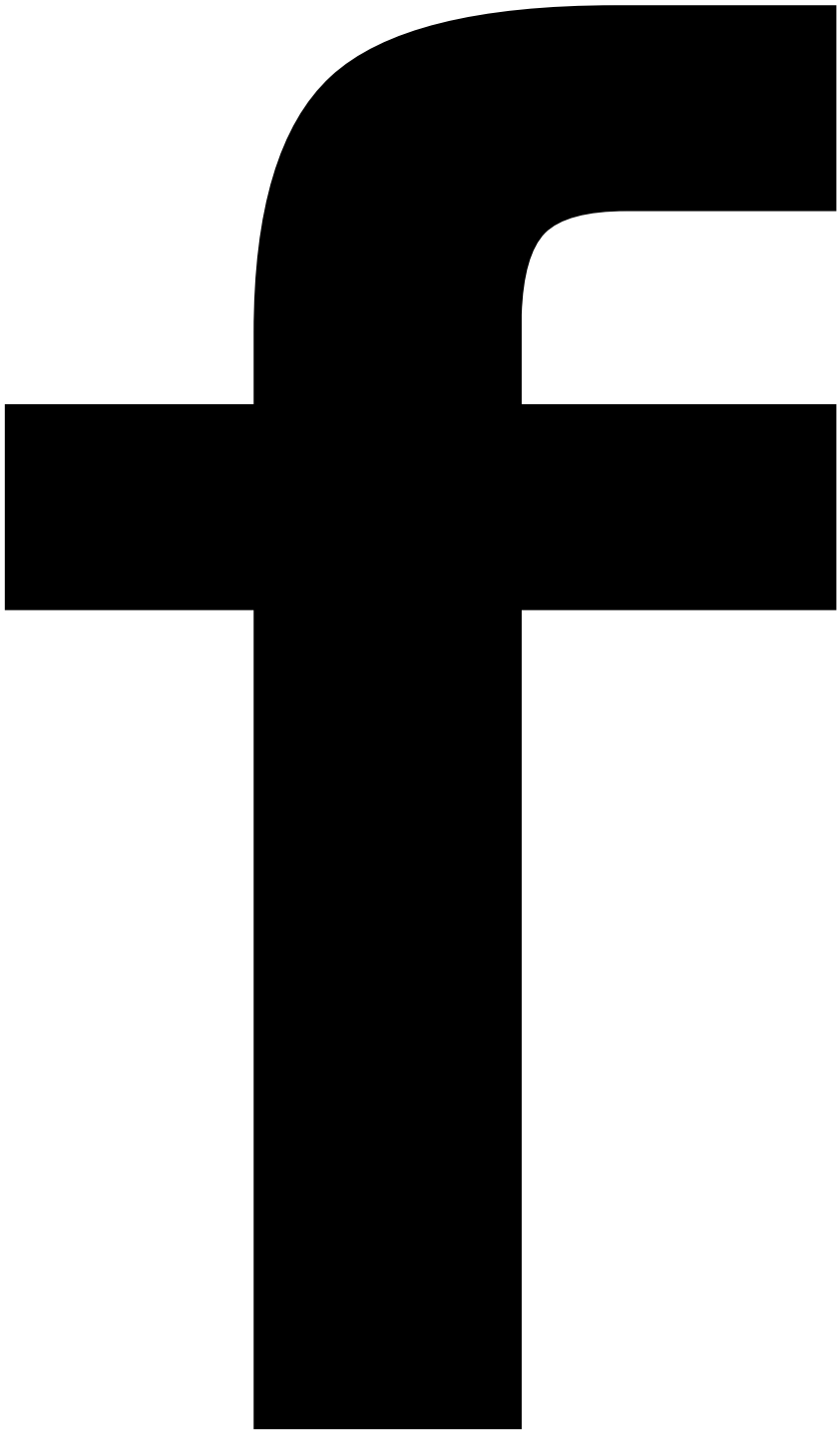


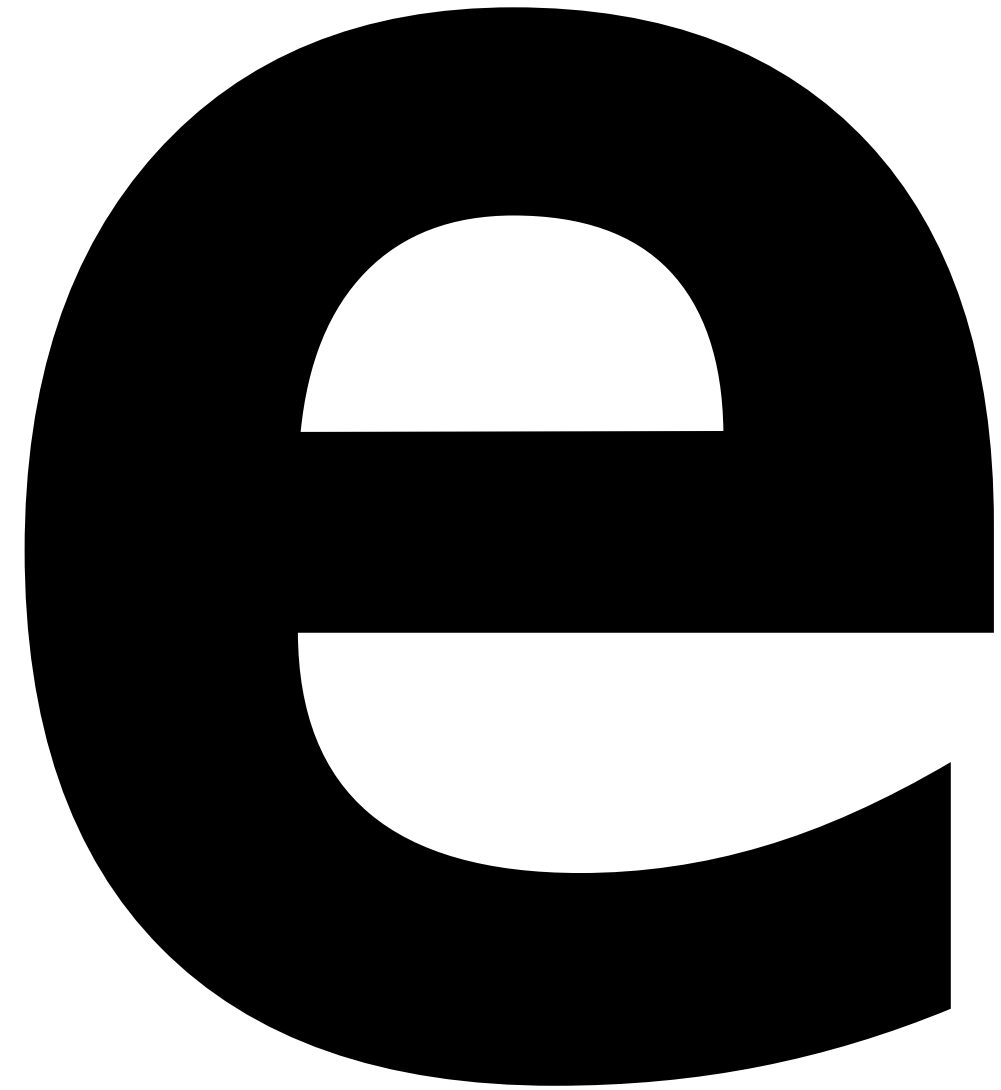


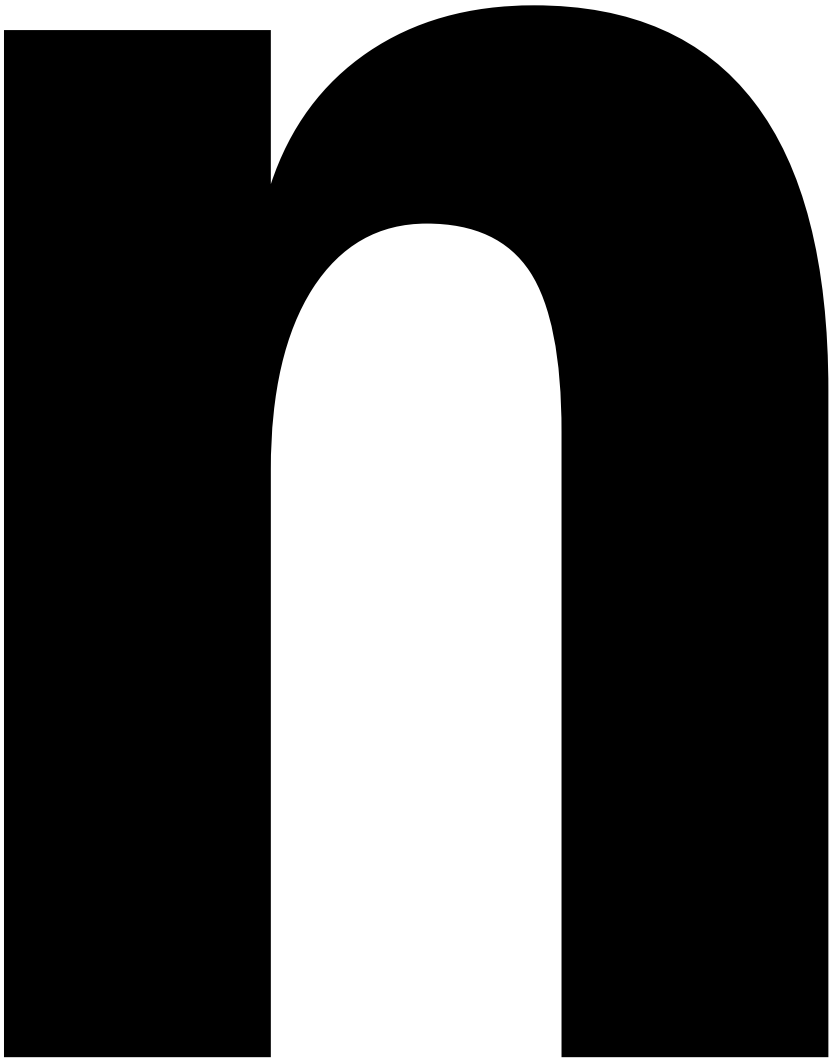


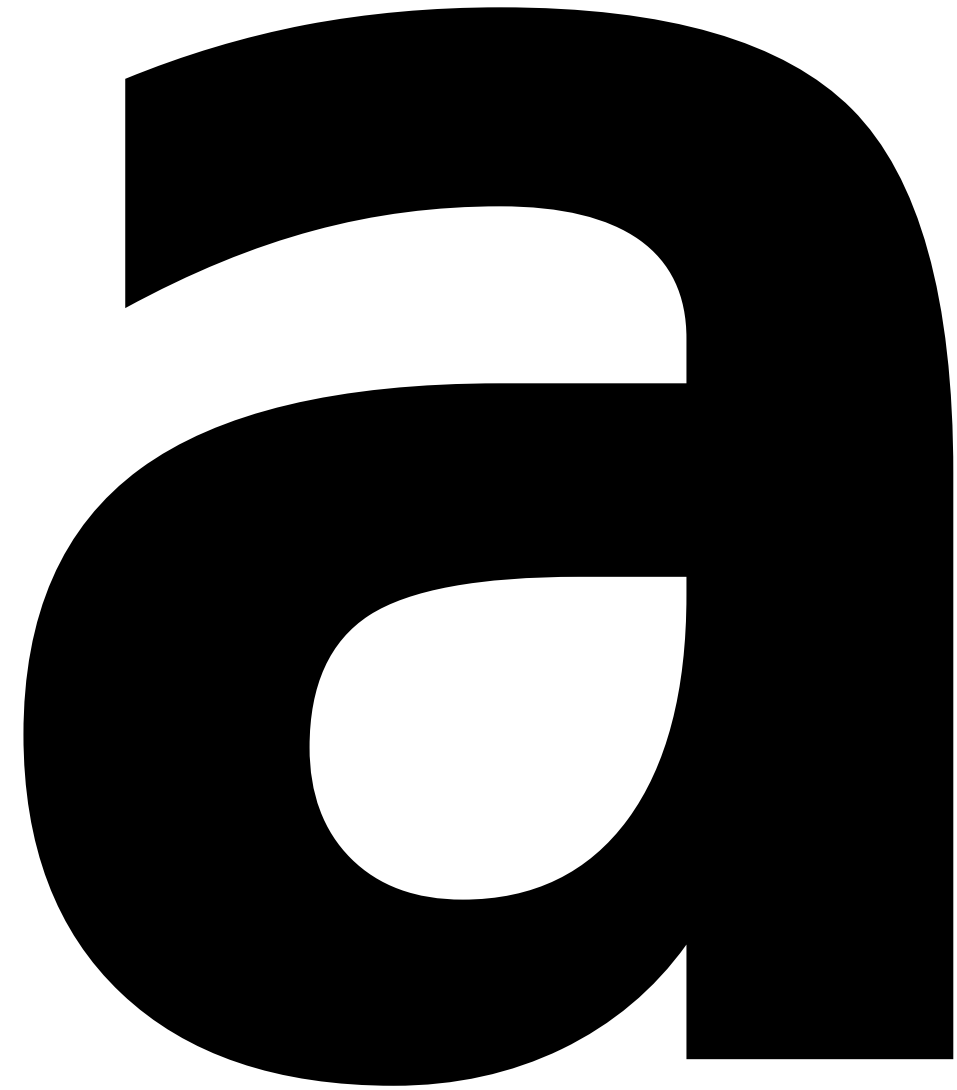


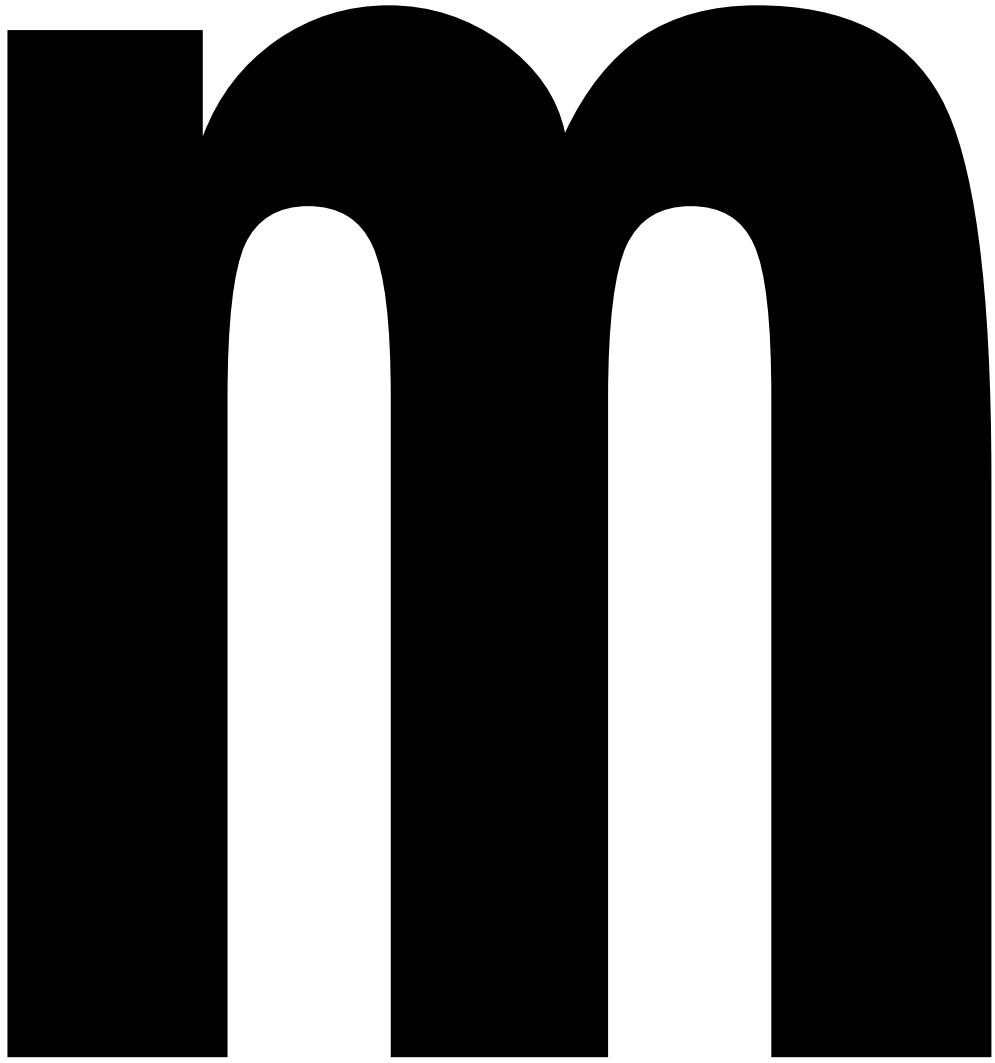
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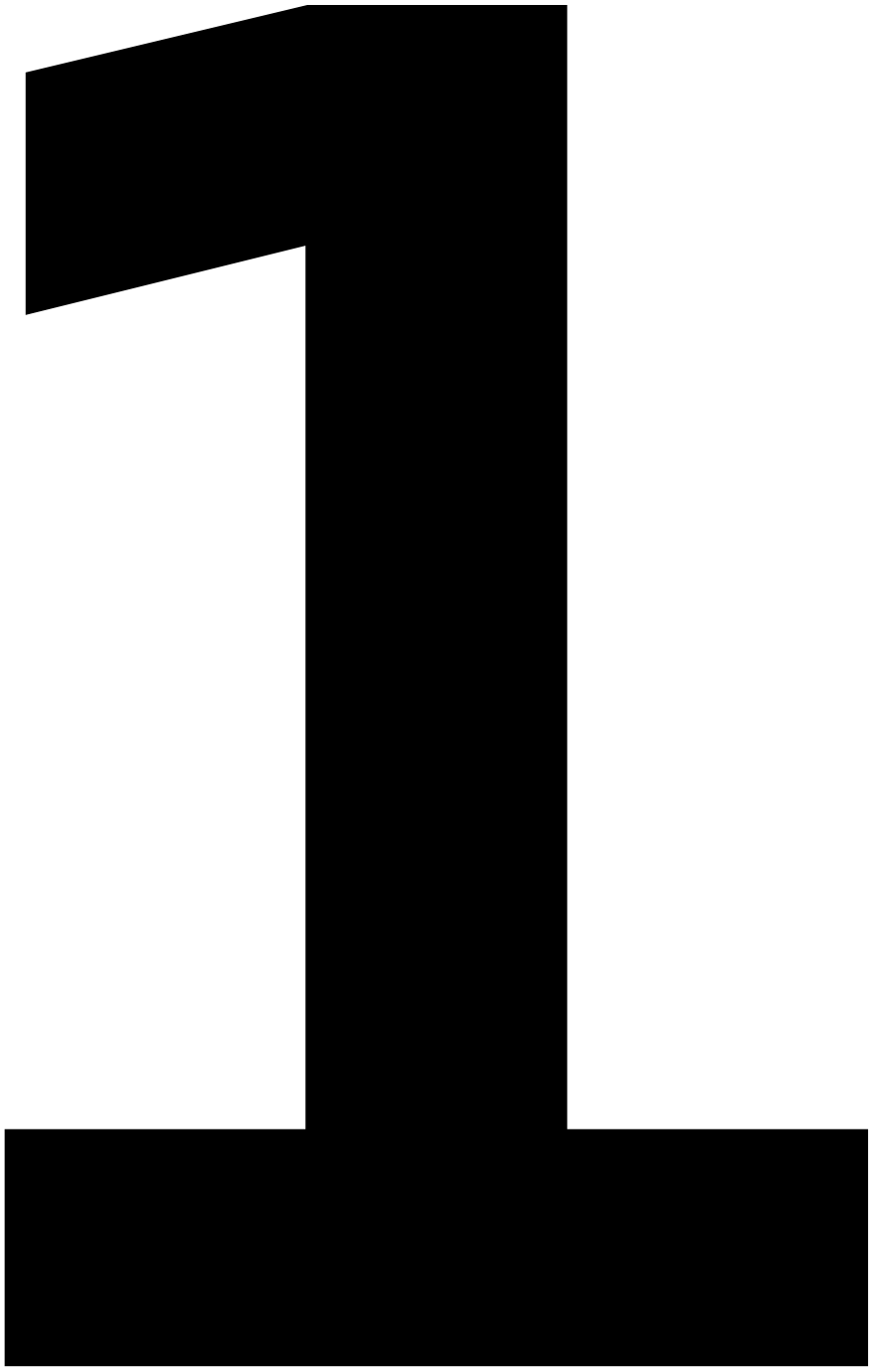


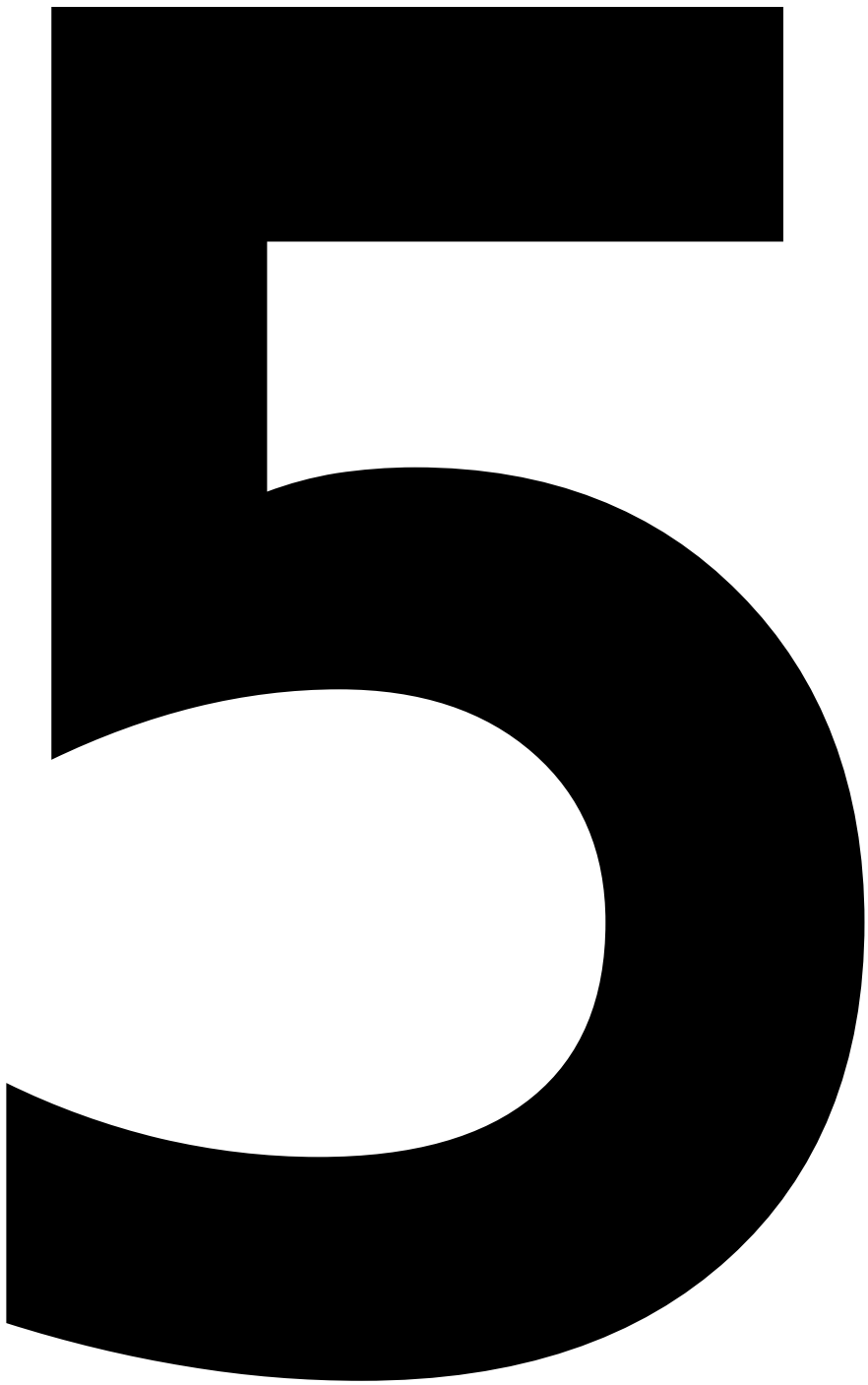


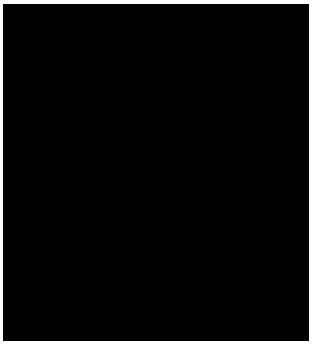


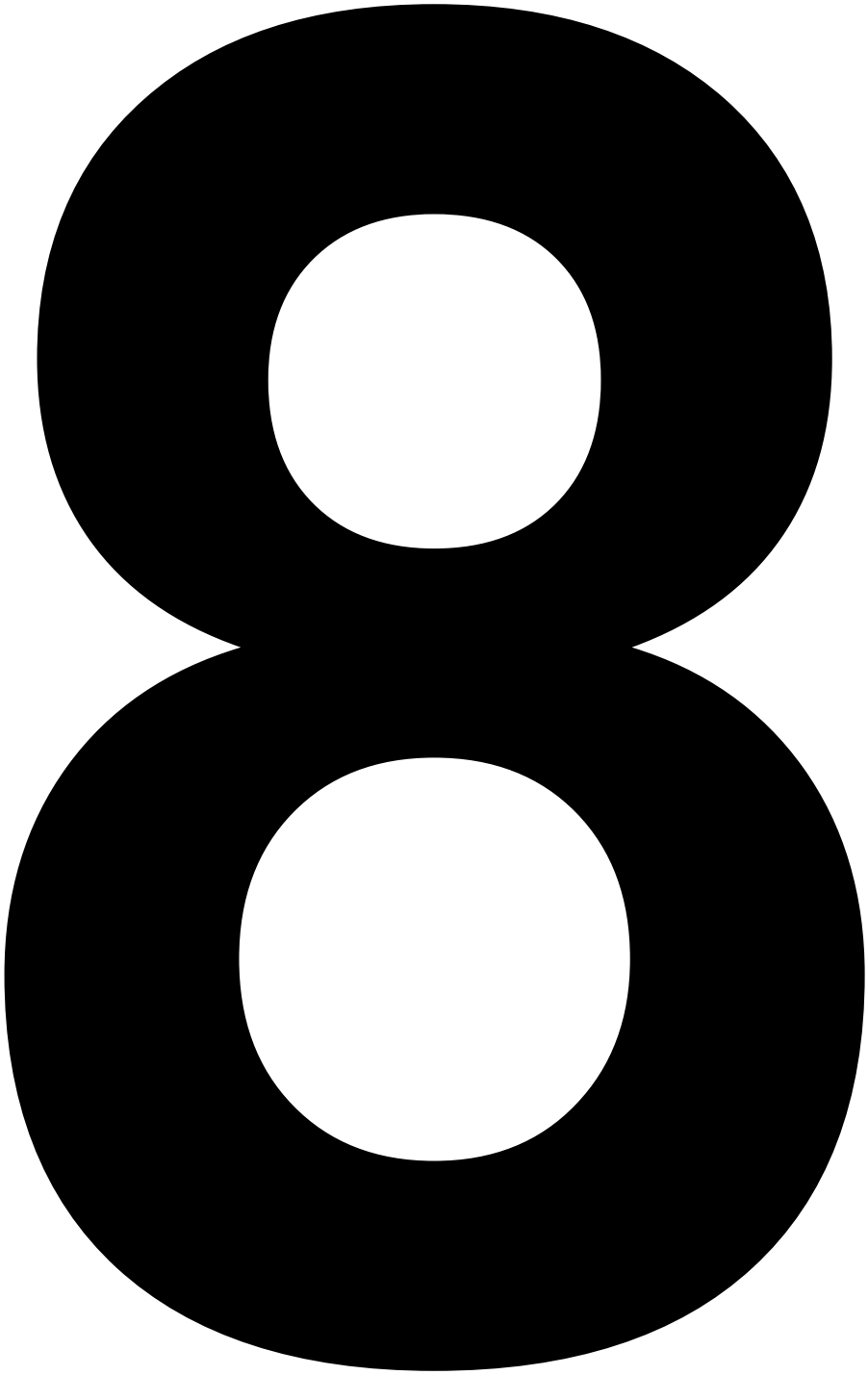


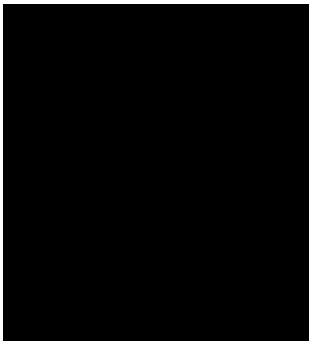




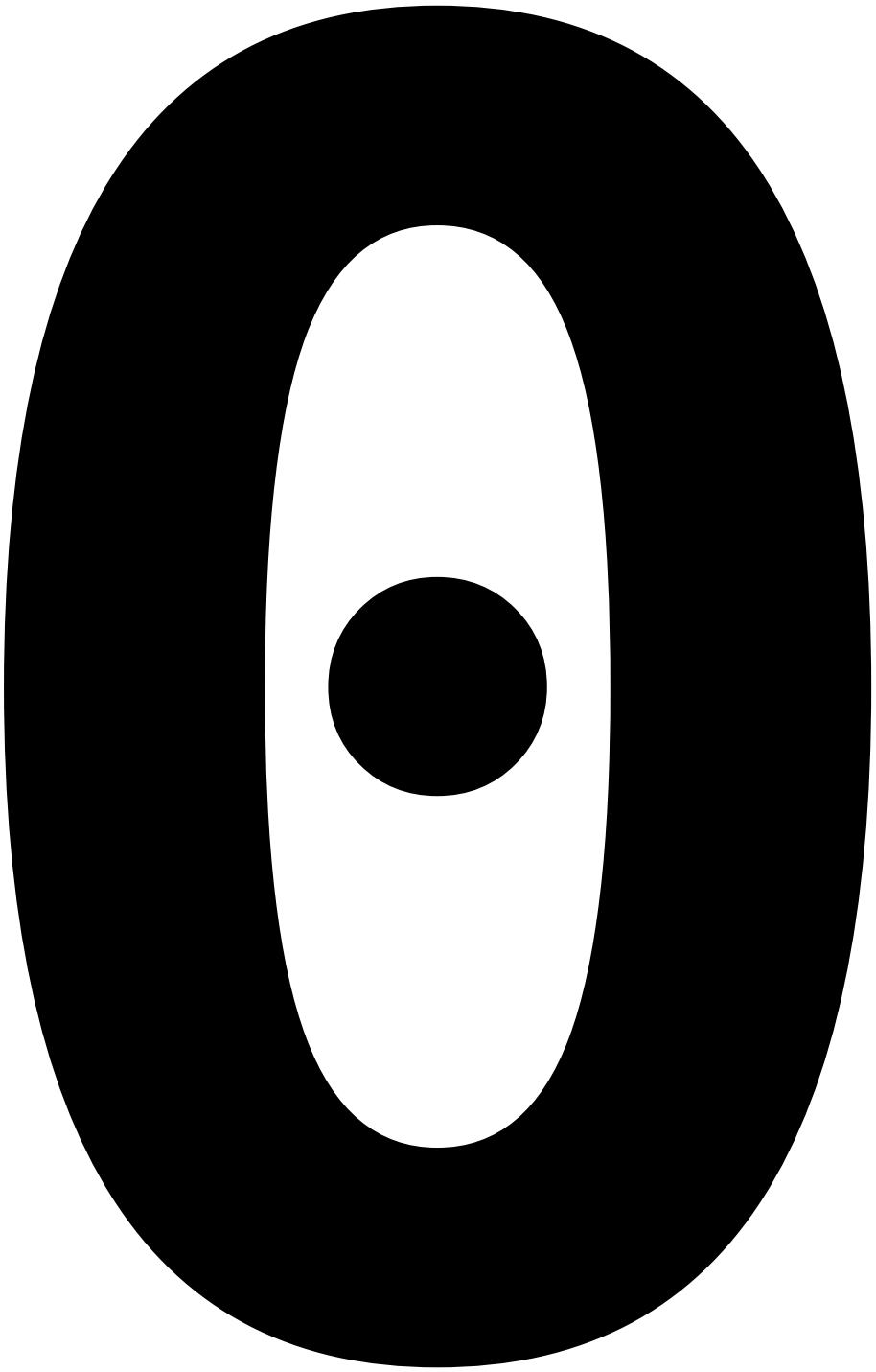


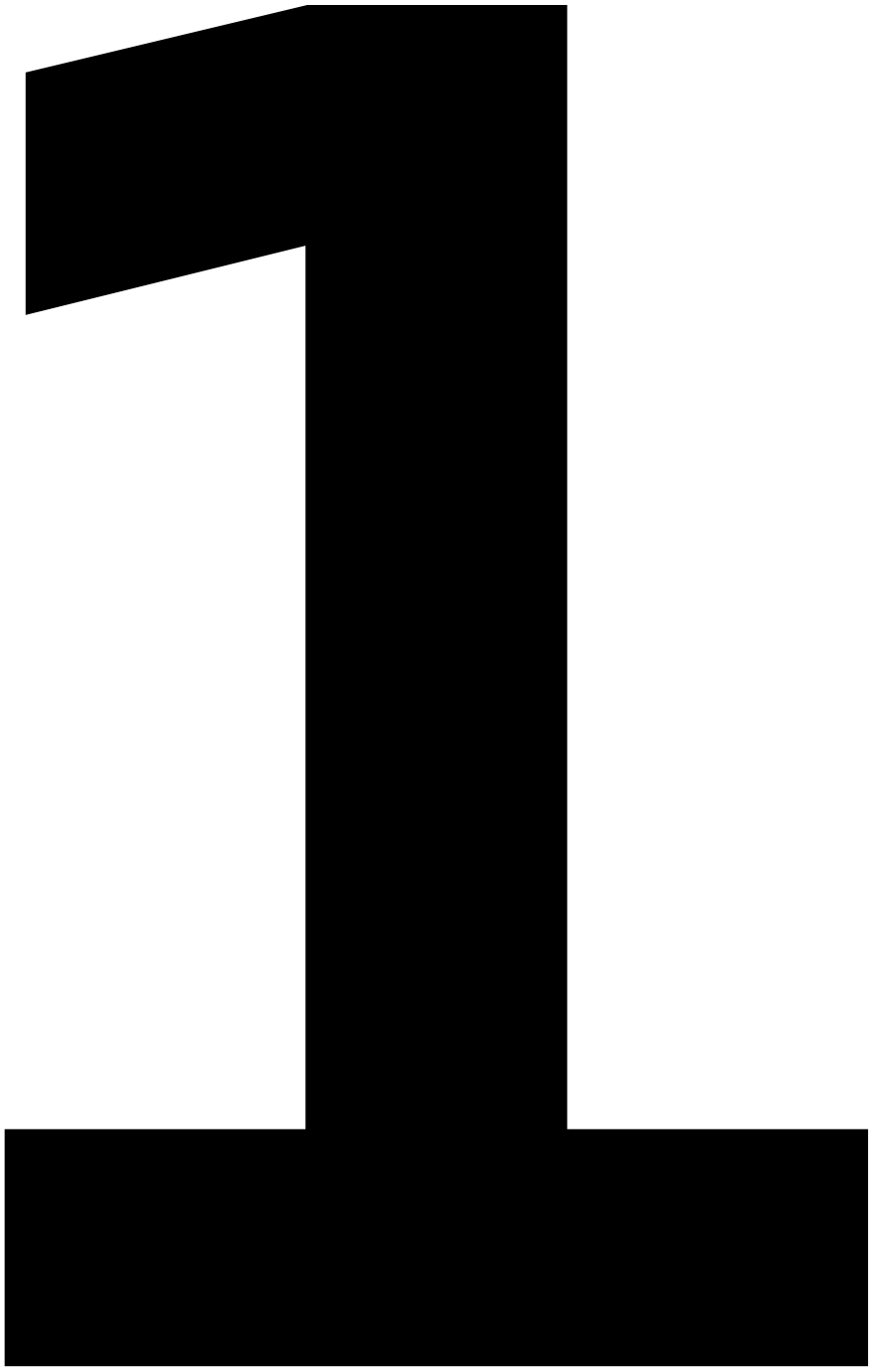






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