

Mechanics of Typography

TOPICS

Type Selection

How do we
make mindful
typeface
selections?

What does
that mean?



g g

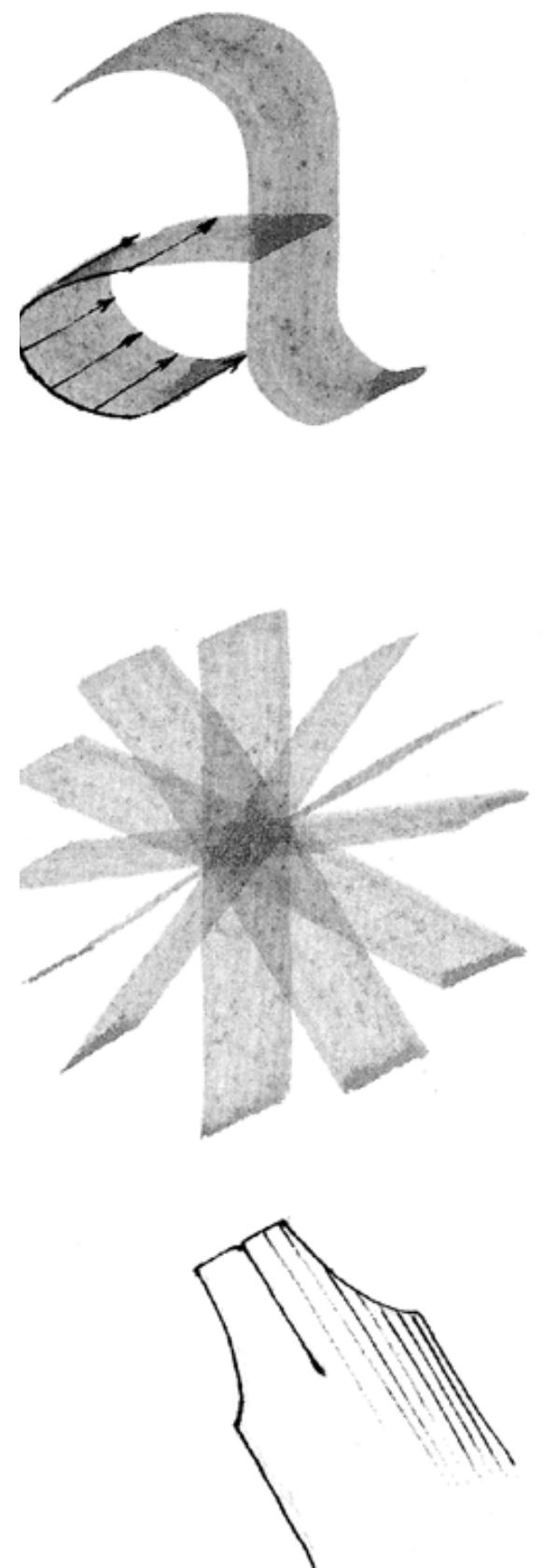


Fig. 1. Translation

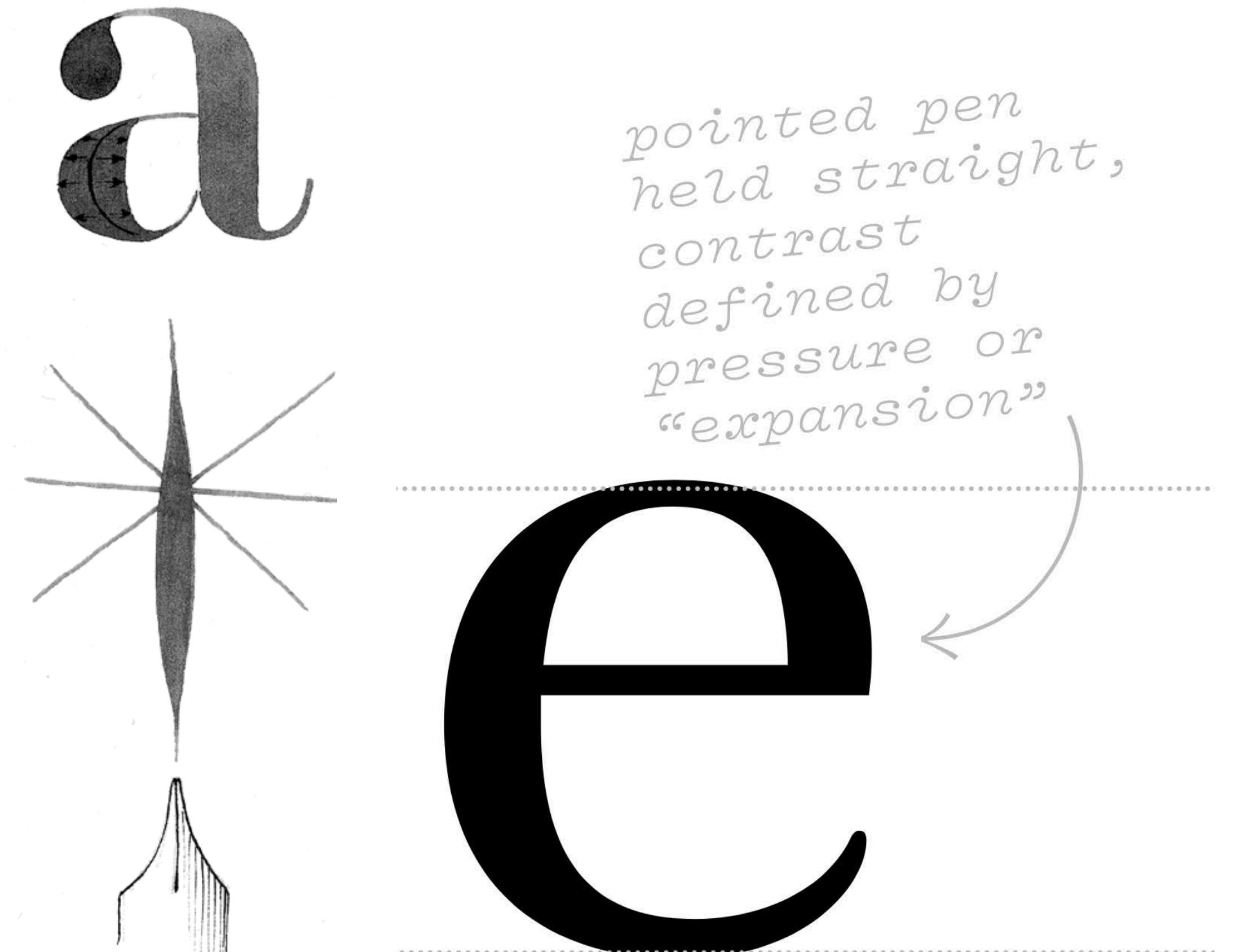
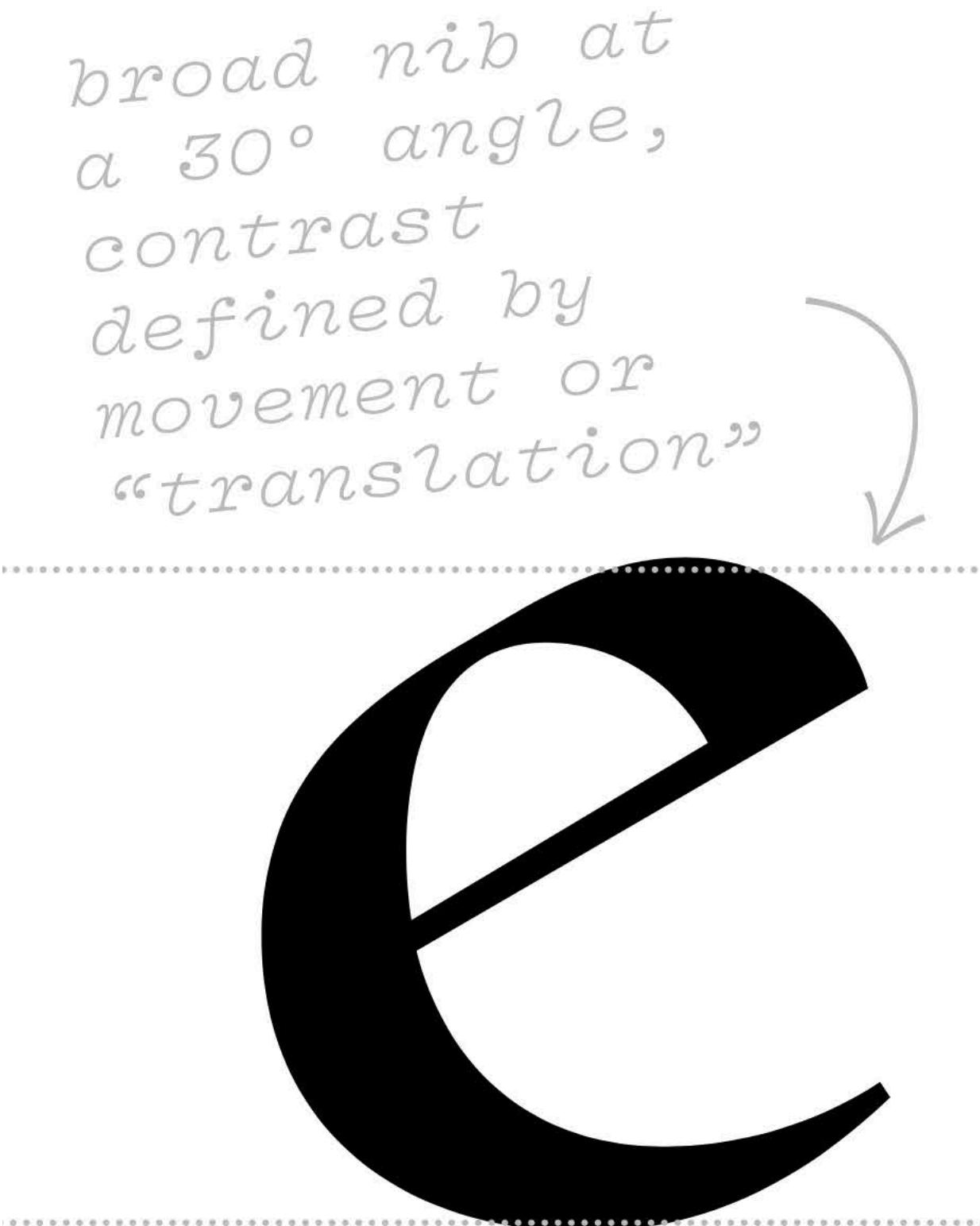
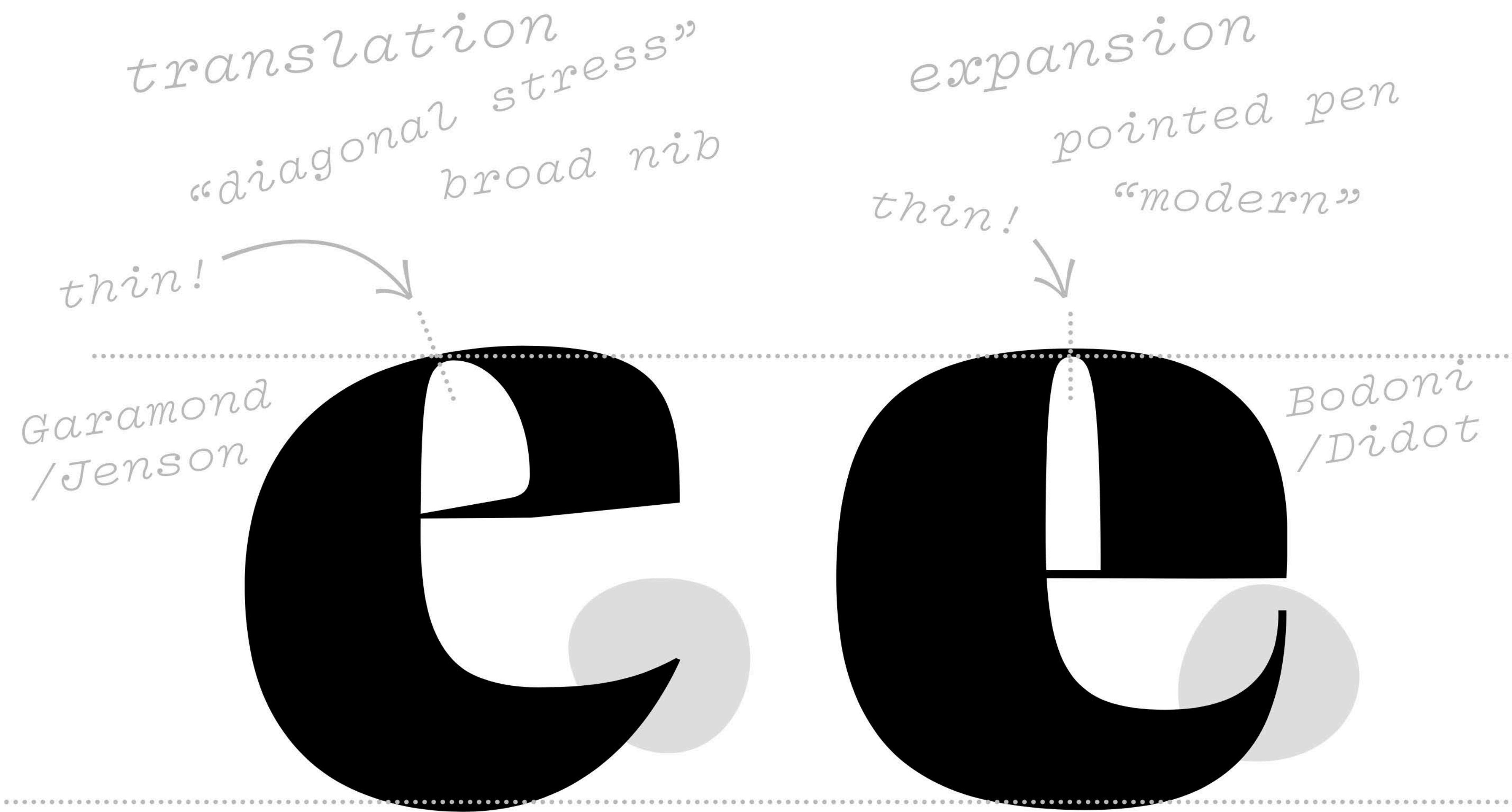


Fig. 2. Expansion

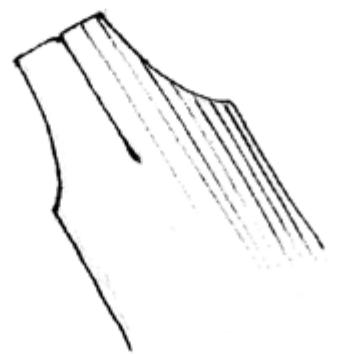
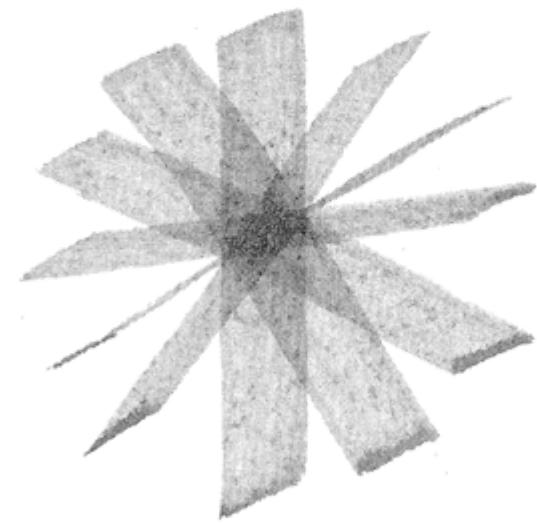
The pen and the angle of writing has affected the axis and the stress of most letters



Translation vs. Expansion models, Gerrit Noordzij



a

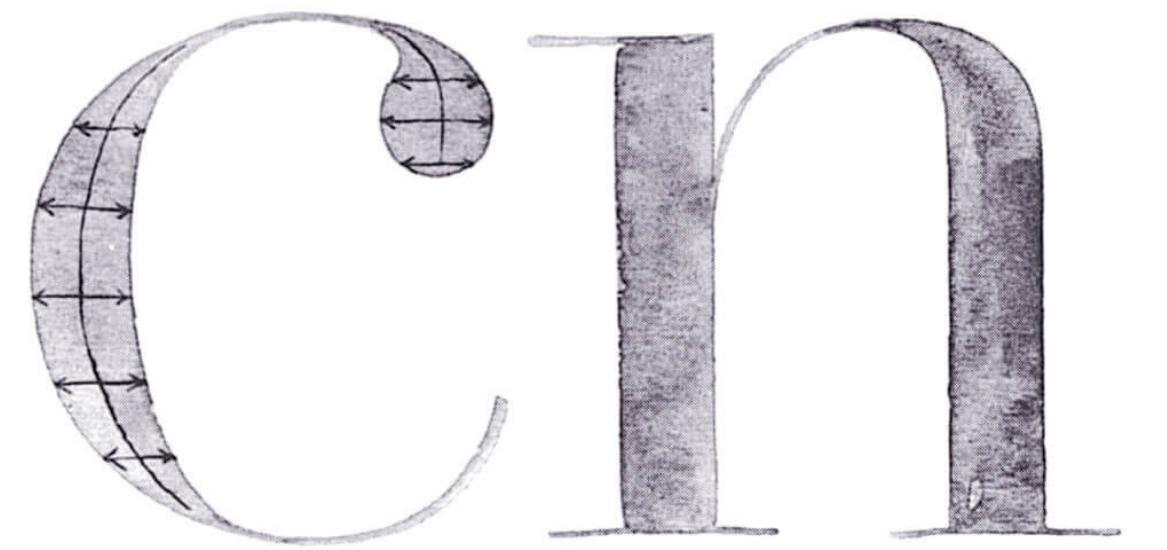
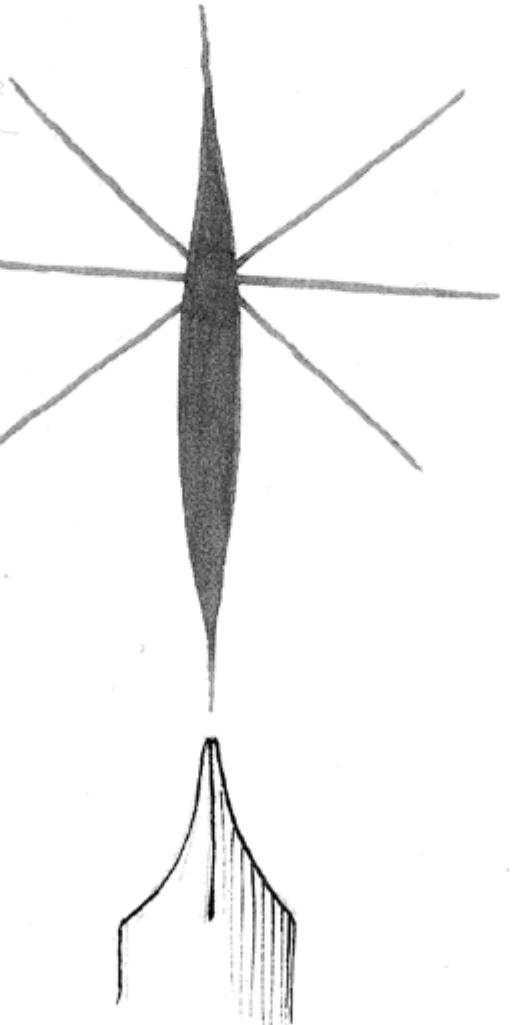


abc

Translation



a



cn

Expansion

Translation vs. Expansion models, Gerrit Noordzij

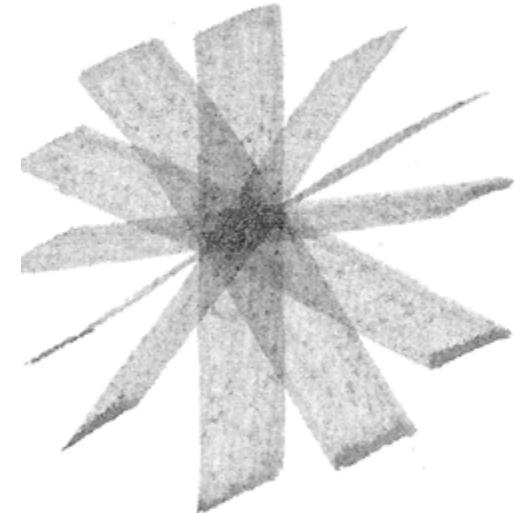


Fig. 1. Translation

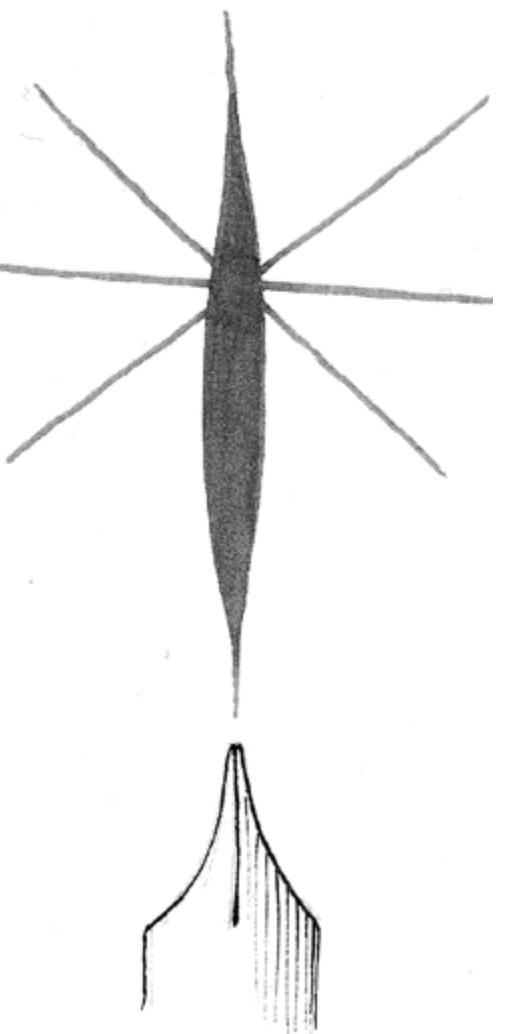
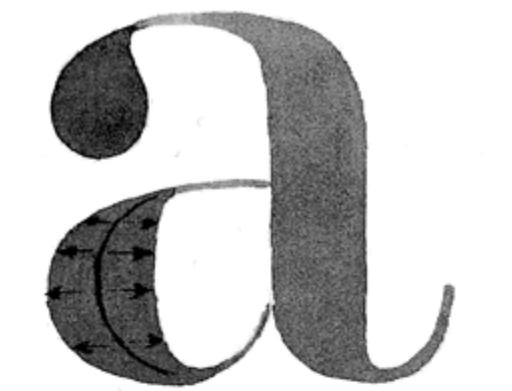
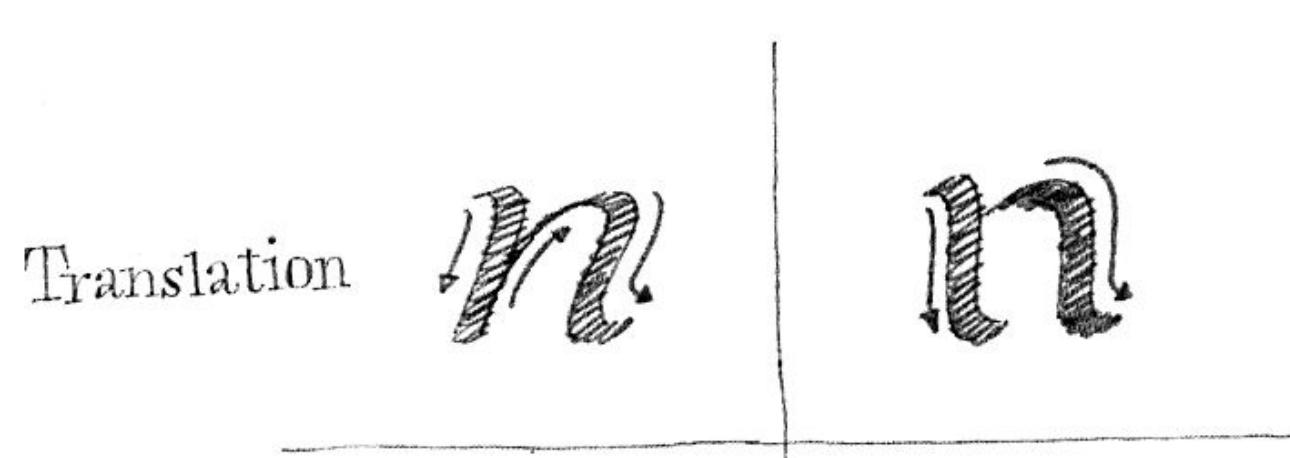


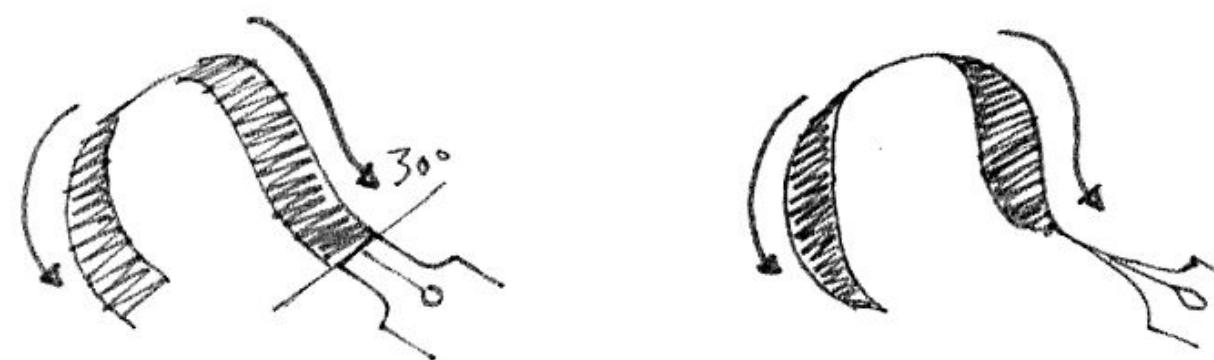
Fig. 2. Expansion



Translation

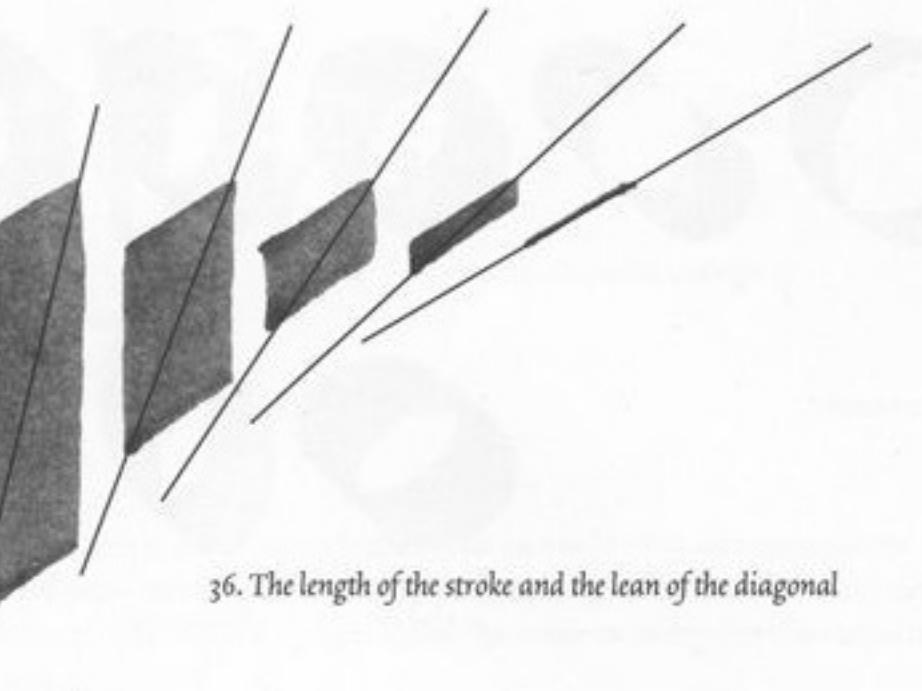
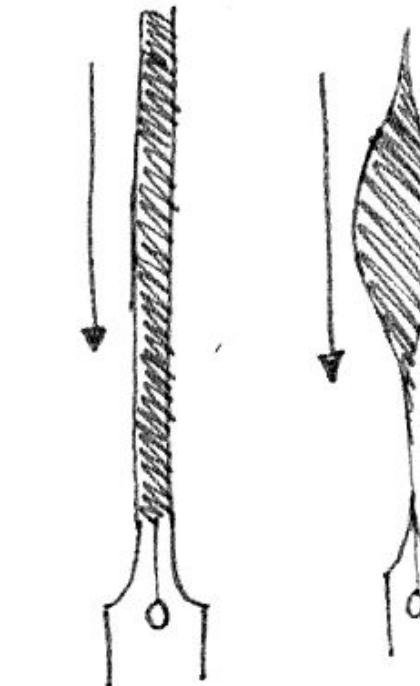


Expansion

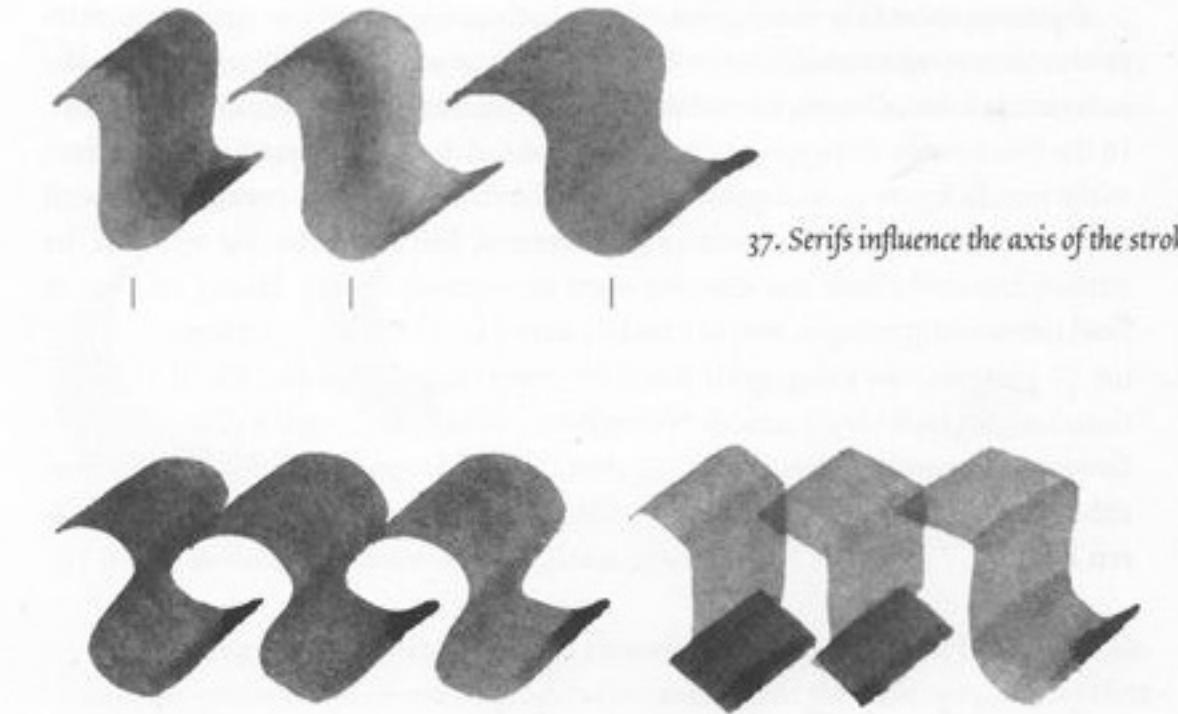
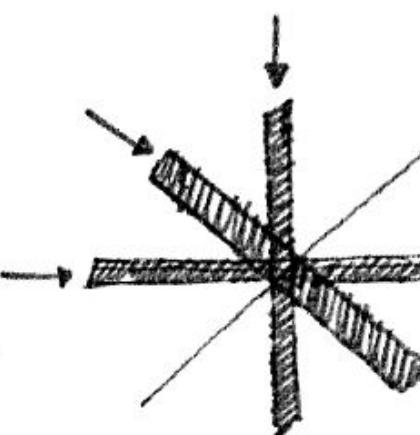


Broad nib

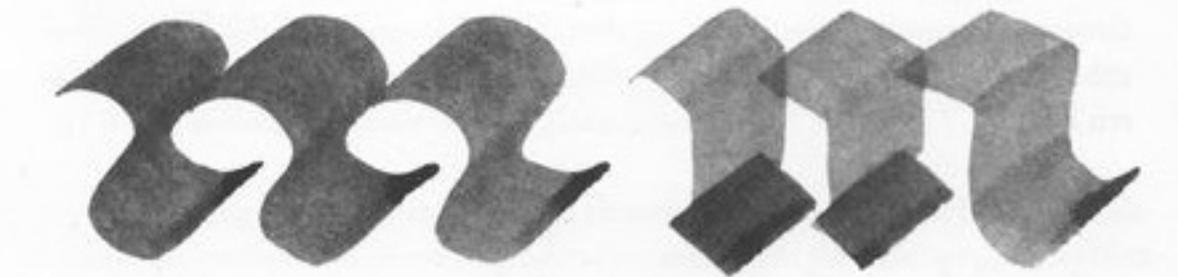
Pointed pen



36. The length of the stroke and the lean of the diagonal



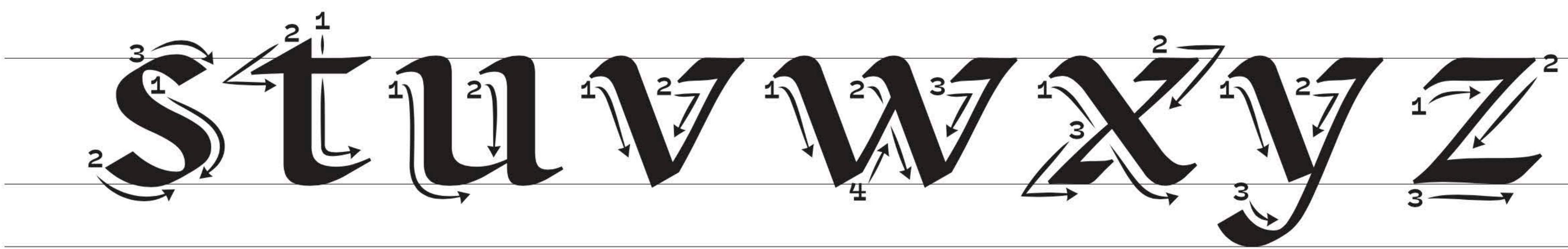
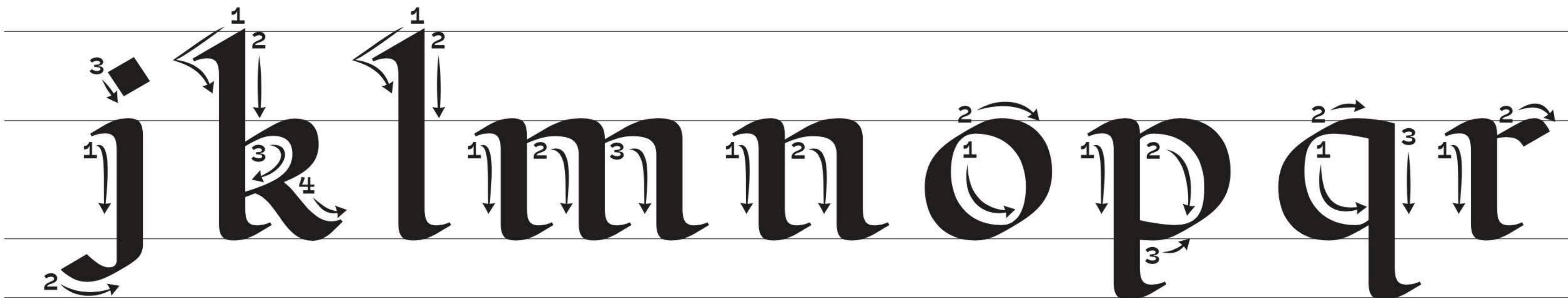
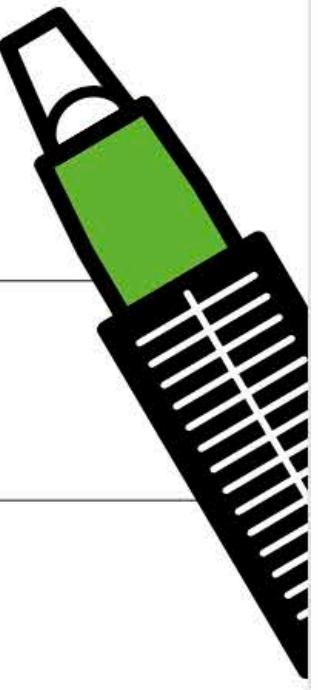
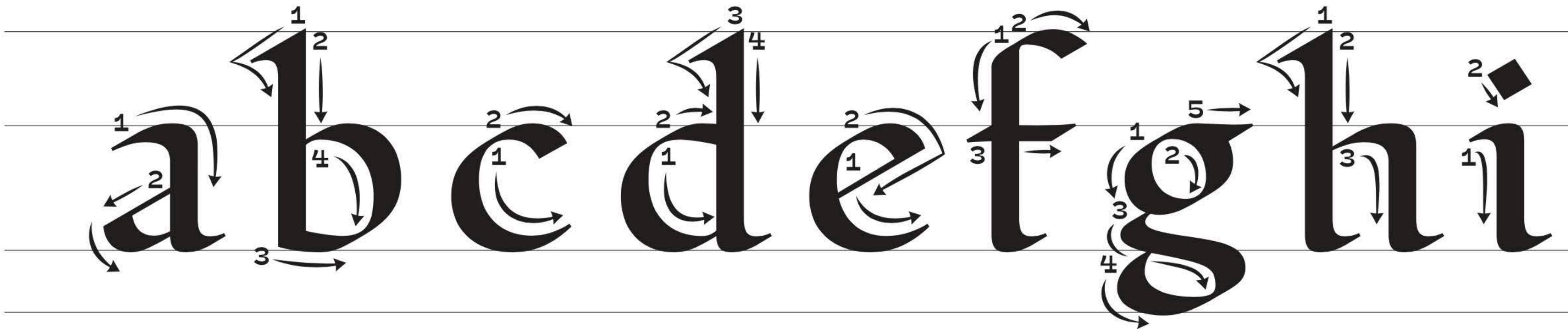
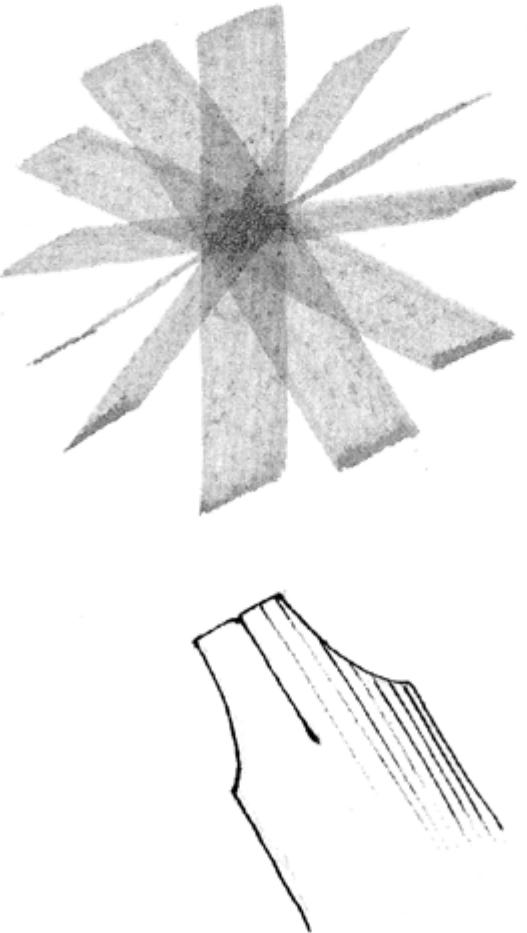
37. Serifs influence the axis of the stroke



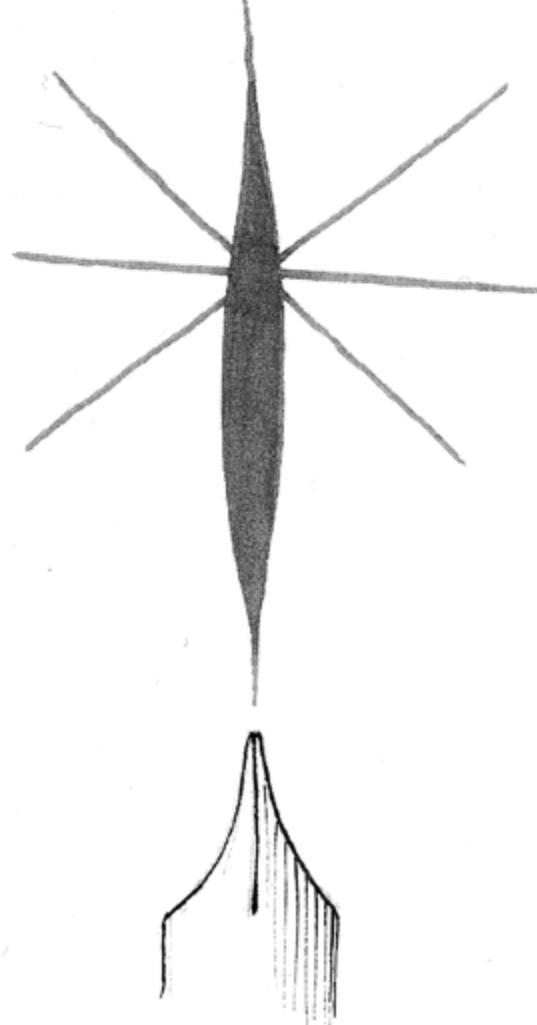
38. Retracted serifs pull thick strokes in balance

The writing tool has shaped the form of type and set the core design of the letters

30 degrees
please



a

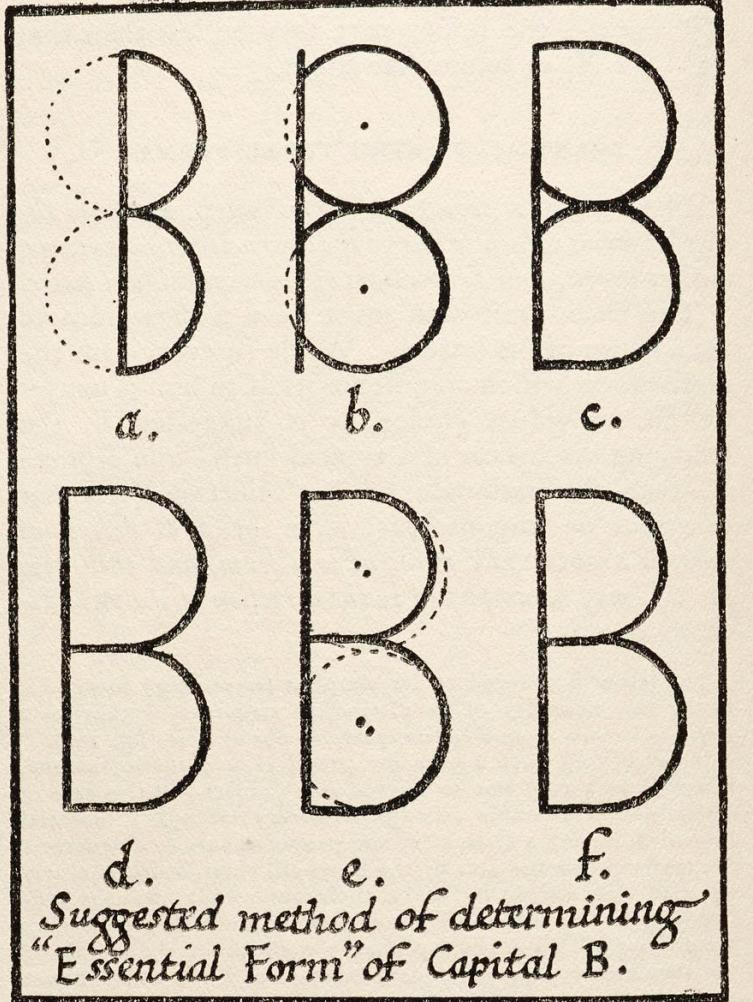


a b c d e f g h i

j k l m n o p q r

s t u v w x y z

The Roman Alphabet & its Derivatives



Suggested method of determining "Essential Form" of Capital B.

FIG. 160.

ornamental letters may be produced by "reasonable exaggeration" (k, l, m, fig. 161), if the tool be kept
276

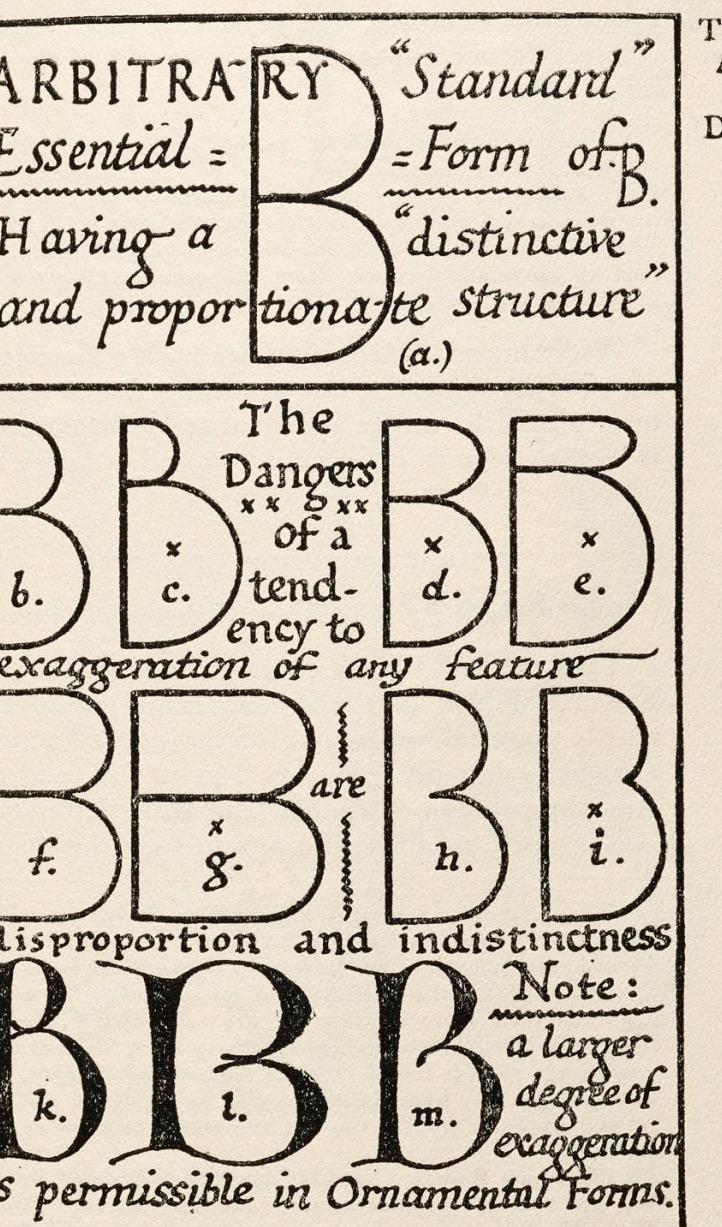


FIG. 161.

277



You can see the basic shape of most letters of the alphabet as a skeletal form

The Alphabet



Teaching kids to write involves the skeletal form of letters

So there is a basic shape to each letter; its skeleton, so to speak.

But there are muscles/meat on those bones too. What is it and how does it work?

n n n
q q q

This meat is comprised of many elements that can vary quite extensively



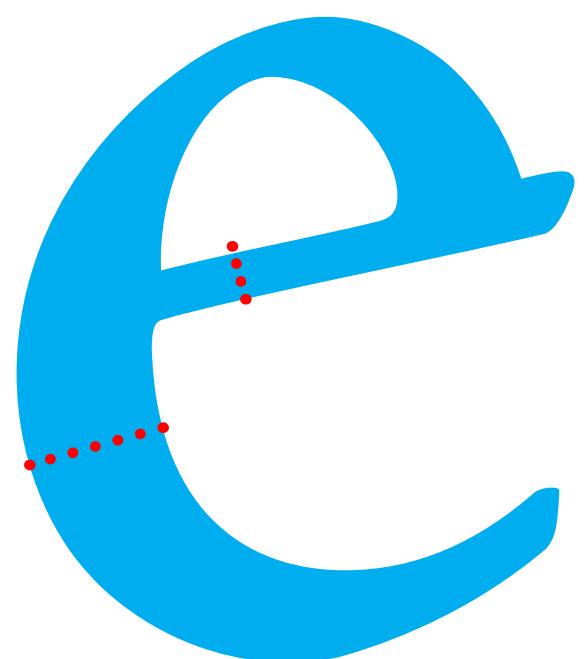
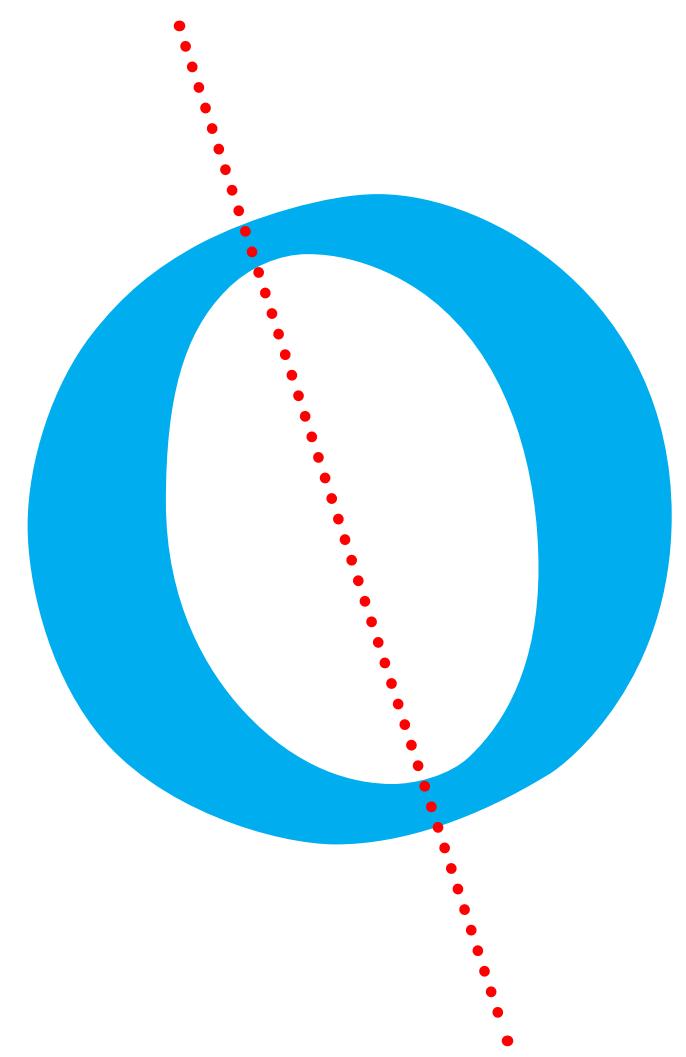
Rimo procœmum. Secūdo quēadmod
tradēda fint. Tertio utrum utilius don
diātur. Quarto qua ratione in paruis i
& quæ tradēda fint. Quīto de grāmati
grāmatici. Septimo an oratori futuro r
artium sciētia. Octauo de musicæ. Nono de geom
ma pronunciationis & gestus institutione. Vndeci
tempore doceri prima ætas possit.

Nicolas Jenson's roman type from his 'Quintilianus', Venice 1471

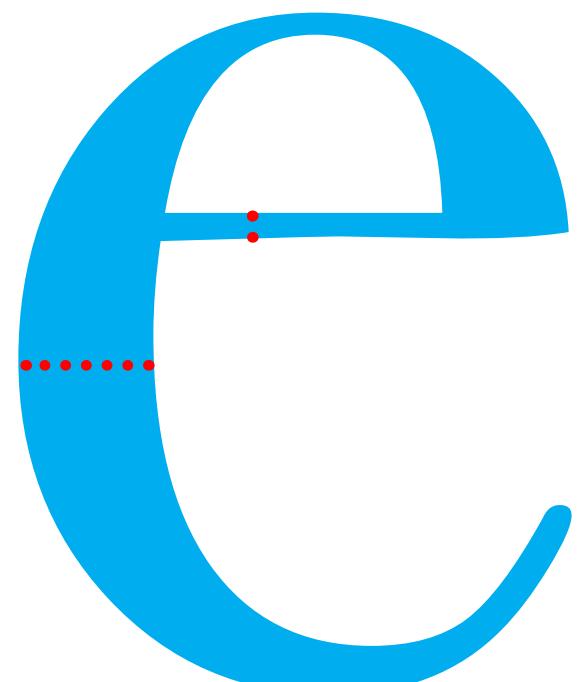
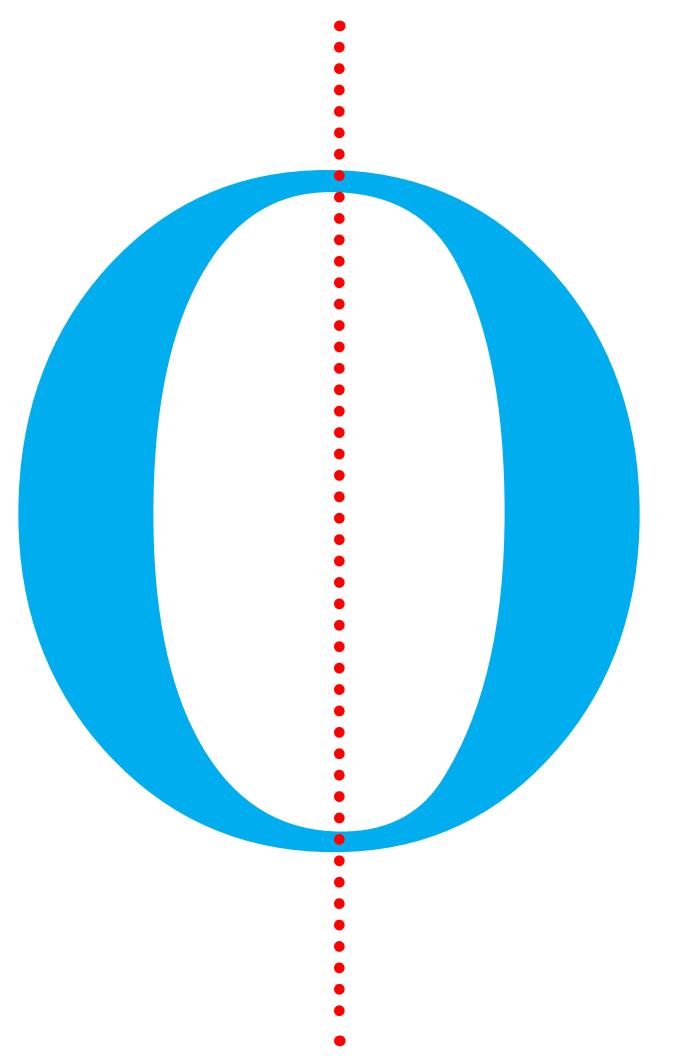
Renaissance
Neoclassical
Baroque
Romantic

φ φ ο ο φ φ

When we began in 1470 with Roman type it evolved to highlight the variables of contrast and axis

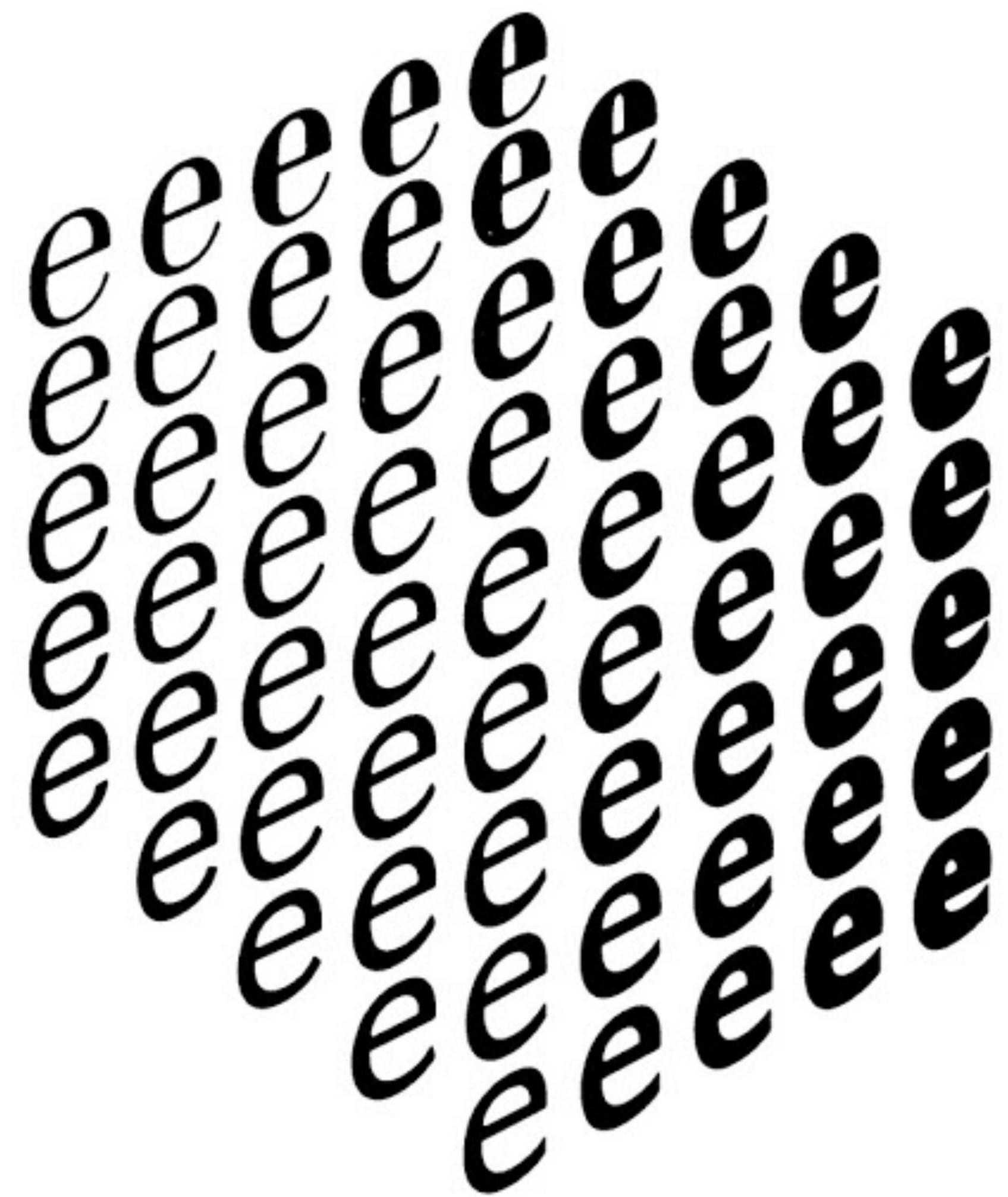


Jenson

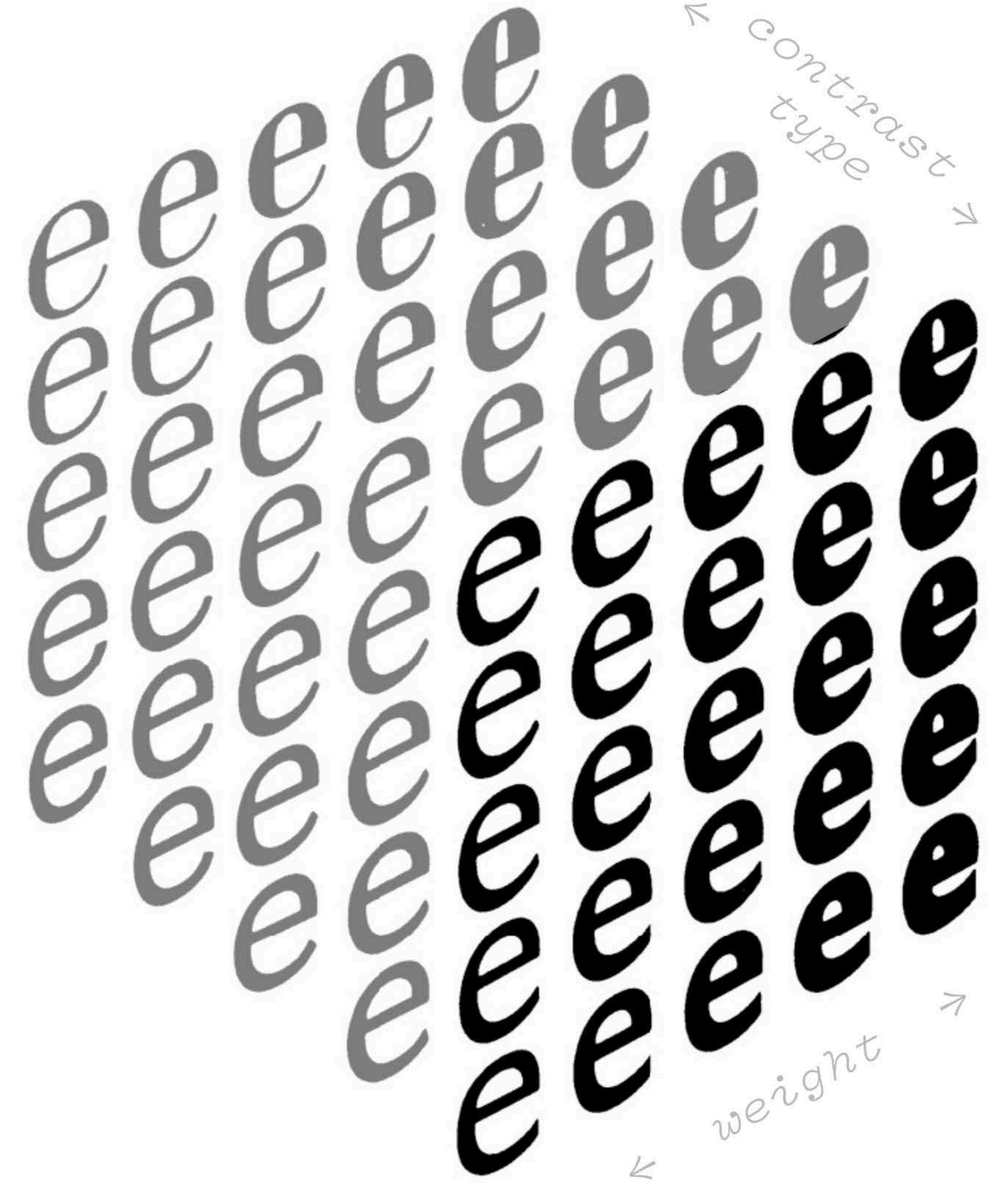


Bodoni

So, type has
an axis, and
contrast.



The Noordzij cube showing the changes in contrast across type



the
noordzijj
cube!

this took
me a really
long time
to fully
understand

take your time

Marian 1554 Roman

Marian 1554 Italic

Marian 1565 Roman

Marian 1565 Italic

Marian 1571 Roman

Marian 1571 Italic

Marian 1680 Roman

Marian 1680 Italic

Marian 1740 Roman

Marian 1740 Italic

Marian 1742 Roman

Marian 1742 Italic

Marian 1757 Roman

Marian 1757 Italic

Marian 1800 Roman

Marian 1800 Italic

Marian 1812 Roman

Marian 1812 Italic

The shape and proportions of type have also evolved over time

The two,
main defining
attributes of
type are:

width
and
Weight

The image shows a 8x6 grid of lowercase 'n' characters. Each character is rendered in a bold, black font. The grid is set against a plain white background. To the left of the grid, there is a vertical gray arrow pointing upwards, with the label "height axis" written vertically next to it. Above the grid, there is a horizontal gray arrow pointing to the right, with the label "width axis" written horizontally next to it.

The image consists of a 10x10 grid of circles. All circles are black with thick outlines, except for one in the top-left corner which is gray. In each subsequent row, the second circle from the left is also gray. This pattern repeats across all ten rows.

R R R R R R

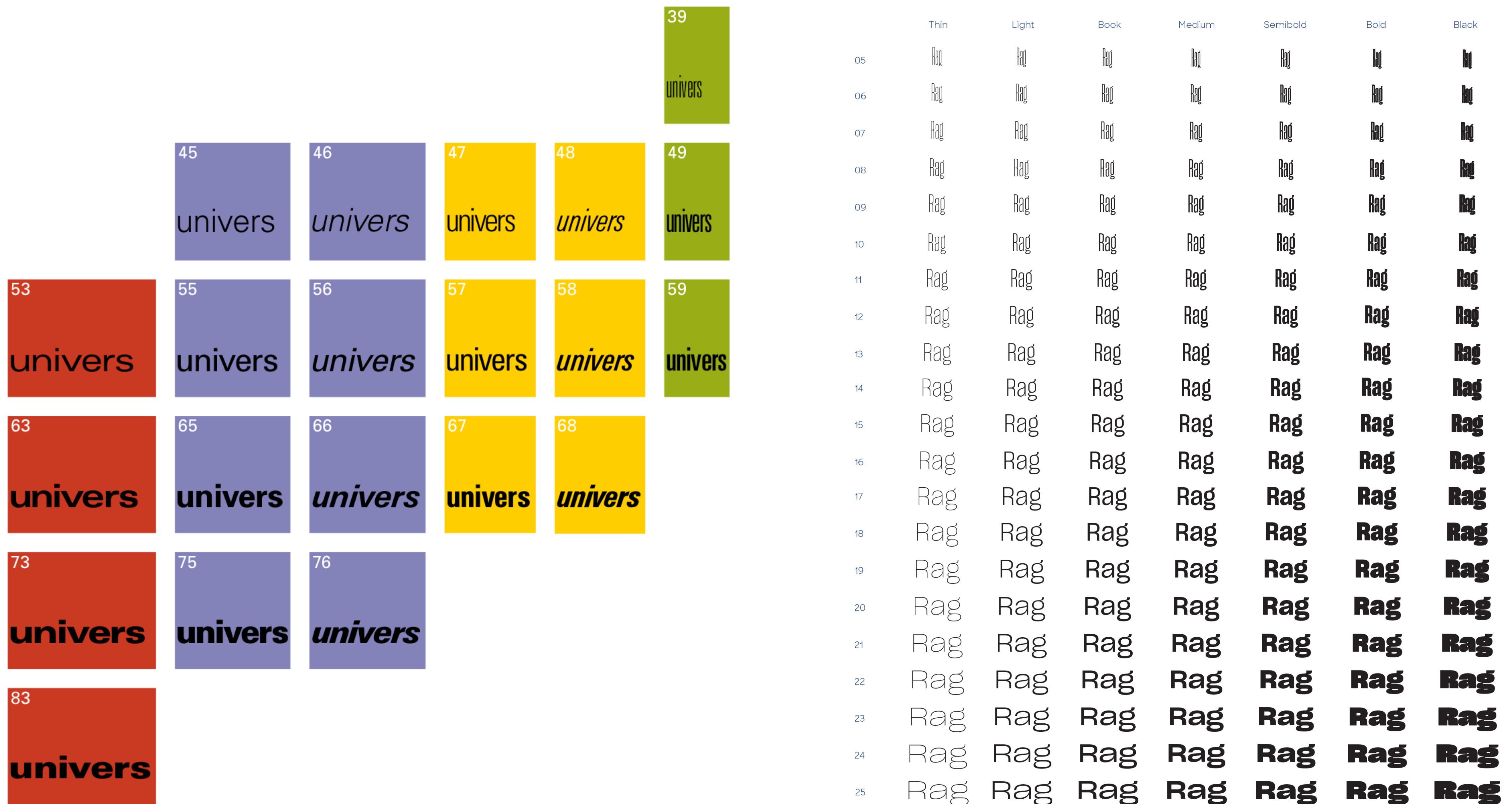
R R R R R R R R

R R R R R R R

R R R R R R R

R R R R R R R

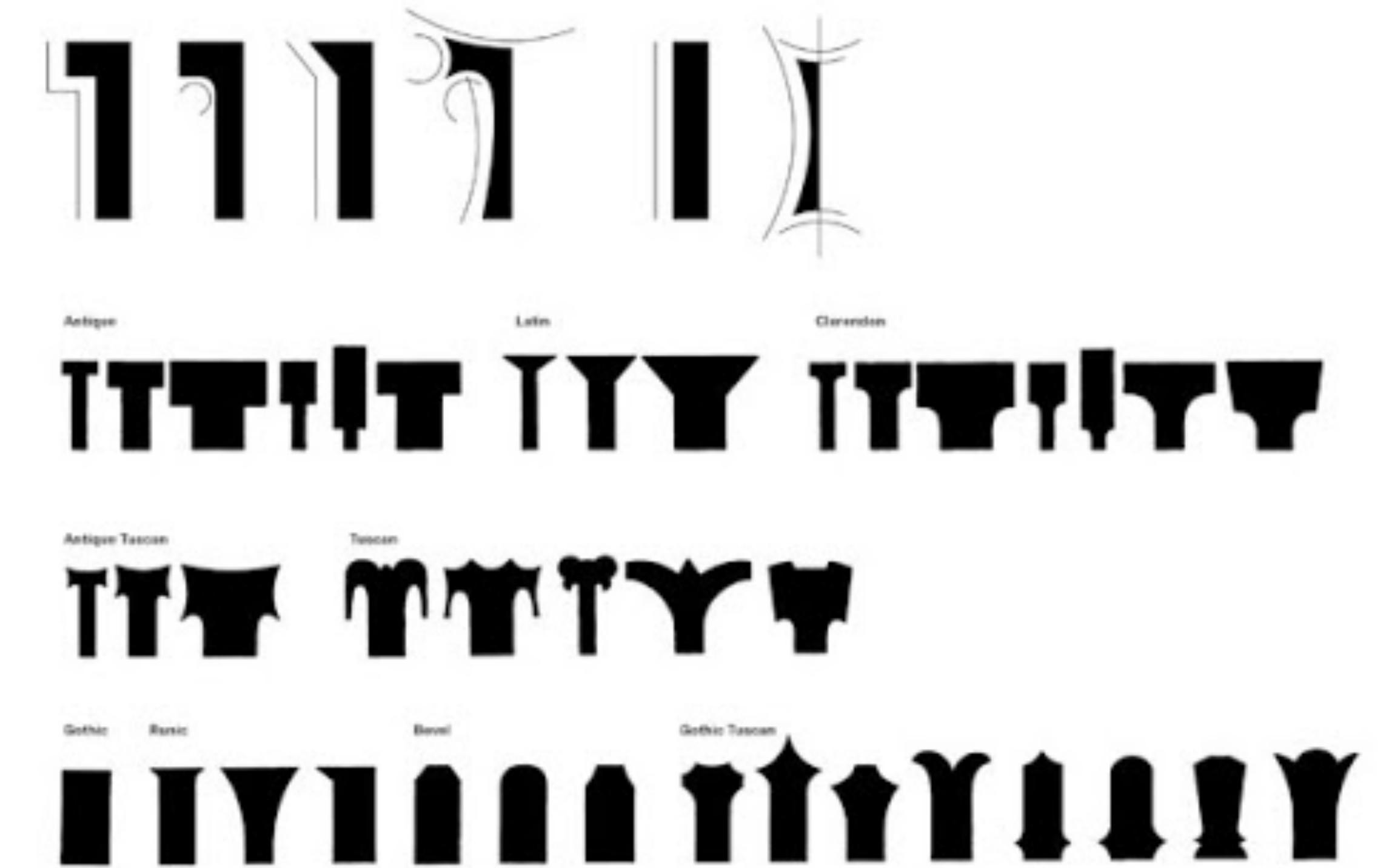
R R R R R R R



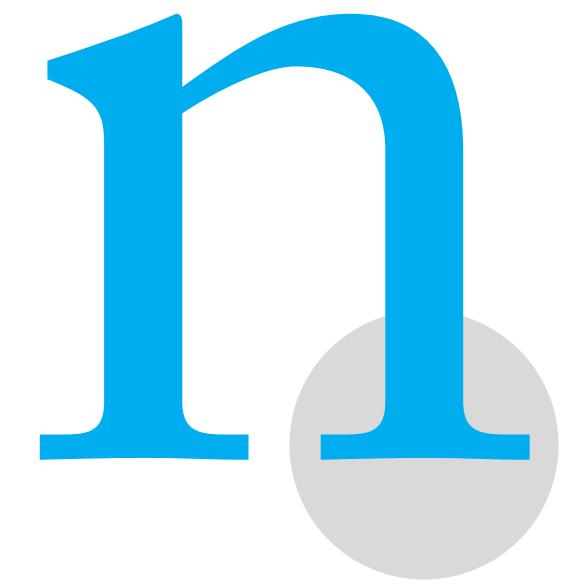
Univers designed by Adrian Frutiger, released in 1957

Sharp Grotesk designed by Lucas Sharp, released in 2017

The shape and style of serif also plays a role, even as a sans serif.



n n n n n n



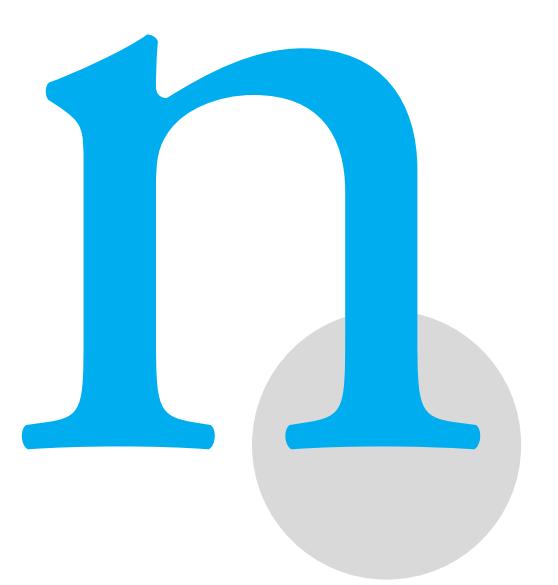
Sabon



Berthold Garamond



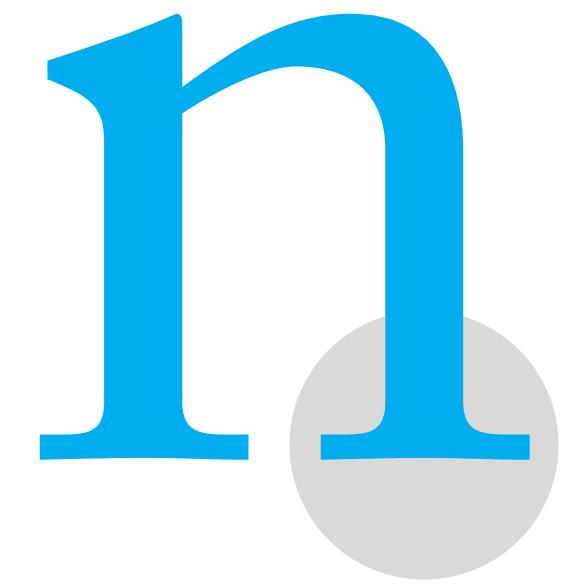
Stempel Garamond



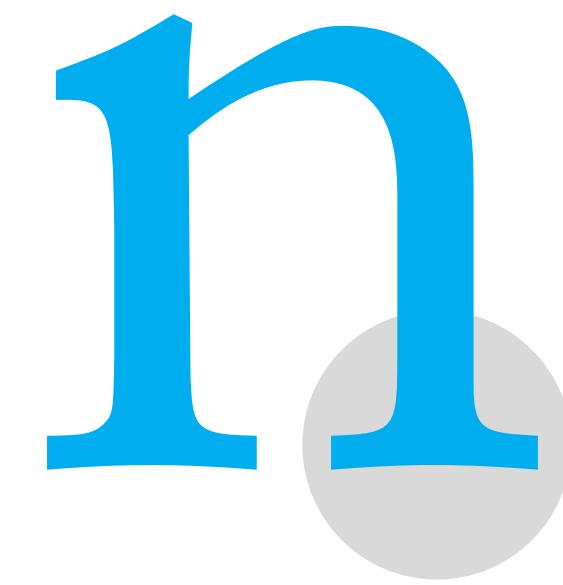
Adobe Garamond



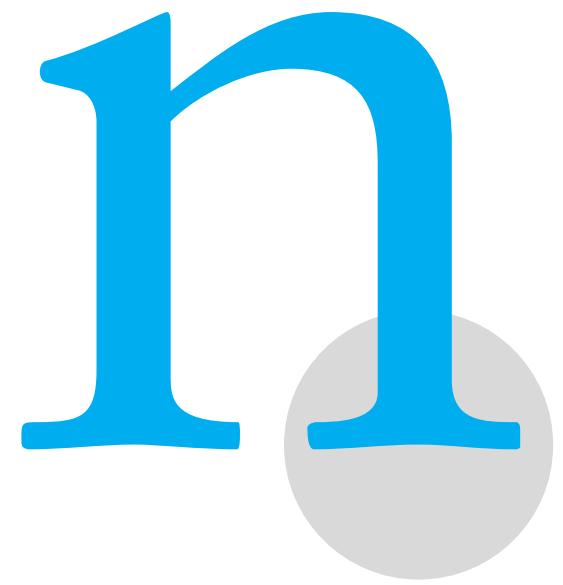
The wide range of the serif shapes, even in nearly identical styles



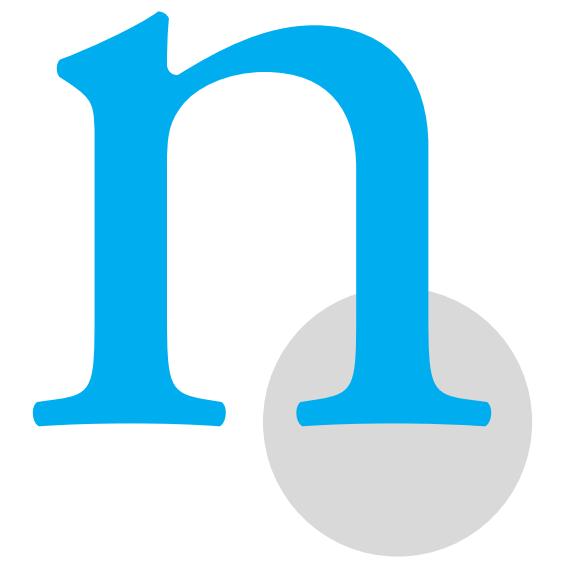
Sabon



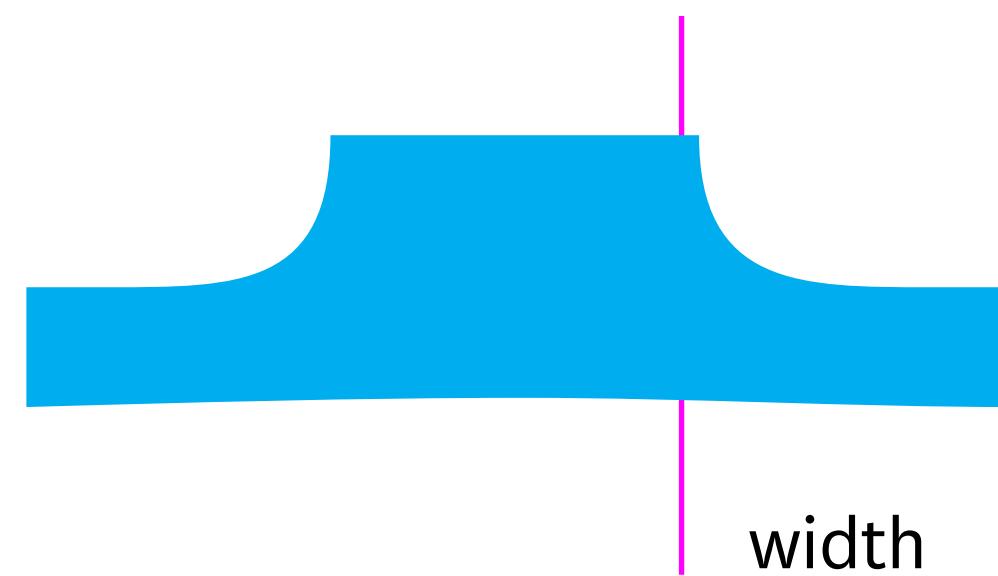
Berthold Garamond



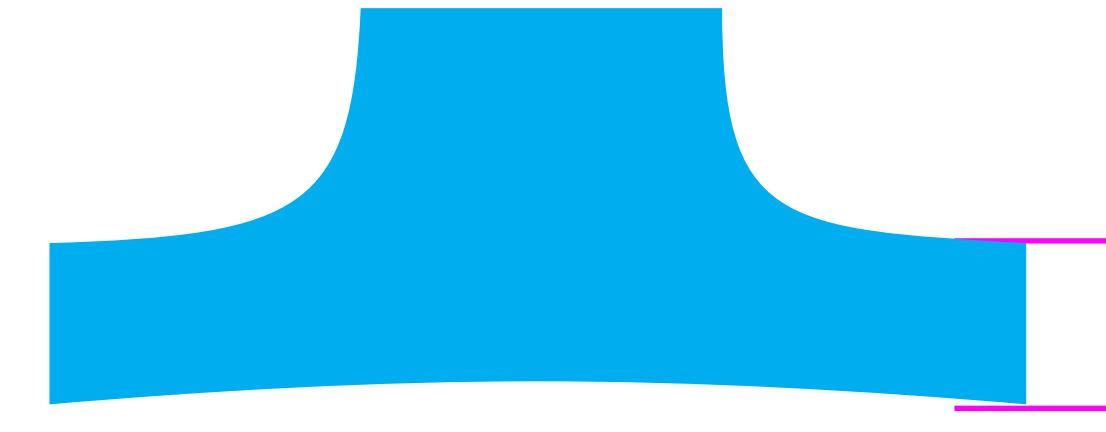
Stempel Garamond



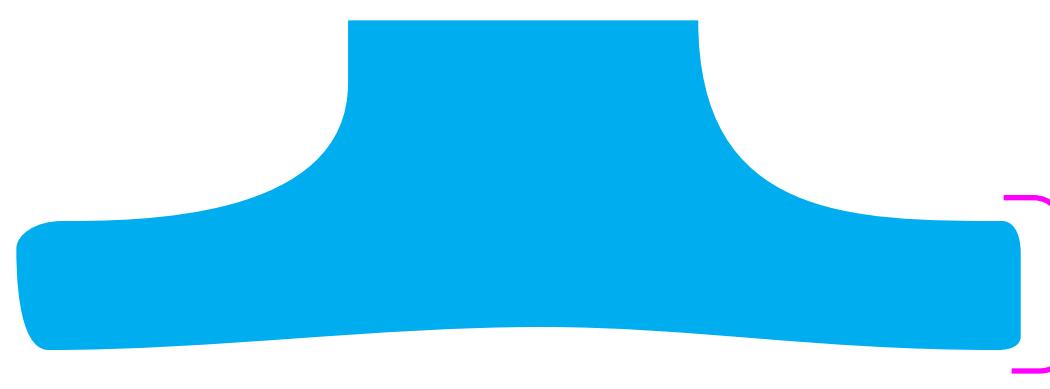
Adobe Garamond



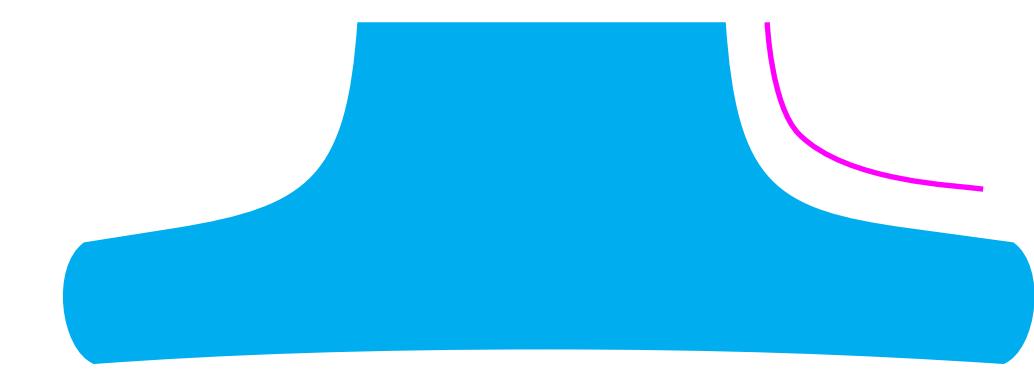
width



height



roundness



bracketing

The width, height, roundness, bracketing all vary



n

Sabon

n

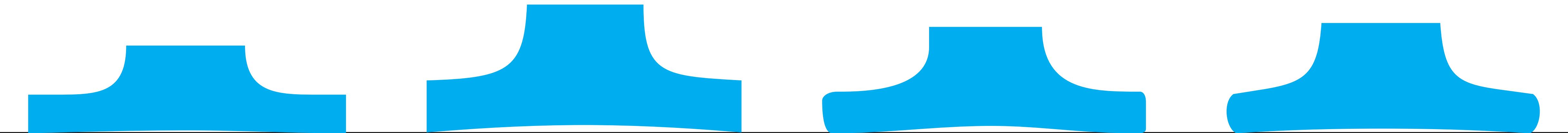
Berthold Garamond

n

Stempel Garamond

n

Adobe Garamond



The flatness/curvature along the baseline also varies

The width
and weight
variables
alone can
create a huge
number of
permutations.

Add to
that axis,
contrast, and
the style
& variables
of the serif,
and it gets
nearly
infinite.

hn hn hn

Haxey Haxey Haxey Haxey

But... the x-height also varies.

Thg Thg Thy Thg

Harmonia Sans • ITC Avant Garde Gothic • ITC Zapf Chancery • Futura

So does the relationship
of cap-height to x-height.

Single Single Single

Gazzette 63pt

ITC Galliard 72pt

Adobe Jenson 82pt

The length of extenders
also varies.

A + \ + _ = A

A + A + . = A

A + A + : = A

A + \ + ; = A

A + \ + () = A

A + A + ^ = A

A + A = A

A + A + A = A

o+o+o=o

Peter Bilak's *History* typeface attempts to bring in the wide range of formal choices under one umbrella

The sheer number of choices a typeface designer can make when making type is nearly endless.

The graphic designers also want variety, which drives demand to make more typefaces.

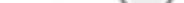
The new
frontier in
all of this is
variable fonts.

Choose file AmstelvarAlpha-VF.ttf

Weight: 

Width:

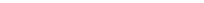
Optical Size:

x opaque: 

x transparent:

✓ opaque:

|c.v

transparent: 

Serif height:

Grade:

Ristanbulp

Ristanbulp

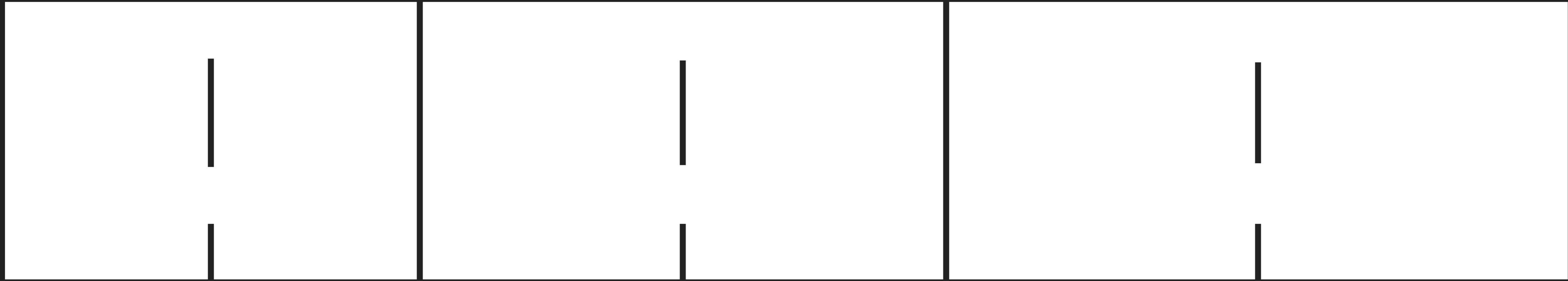
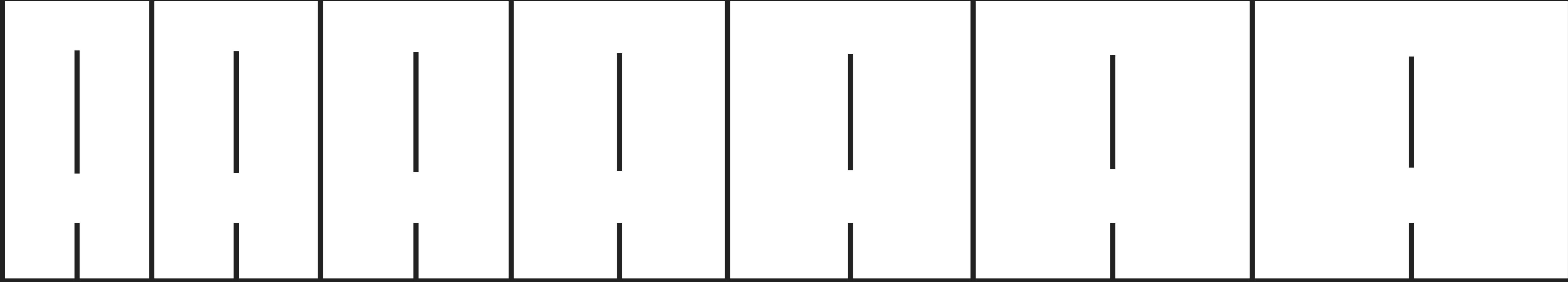
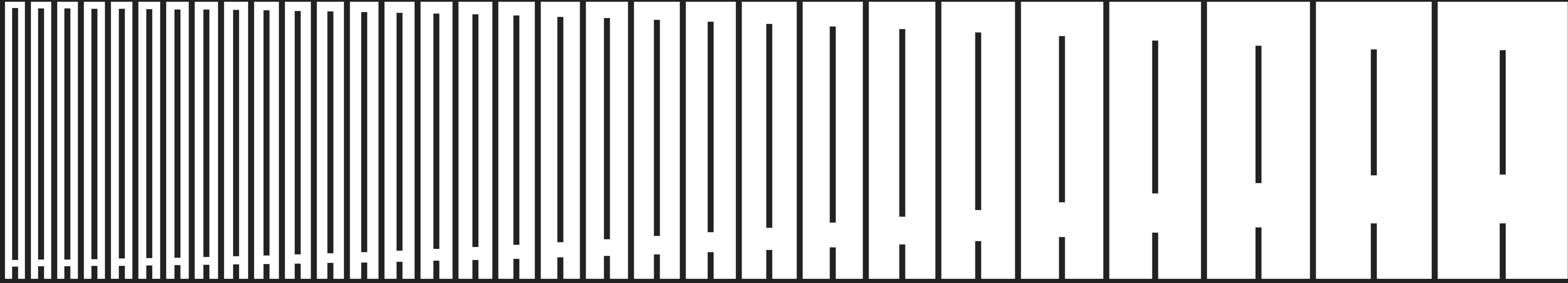
Size:

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G

DANATTAU
DUPAWEHADI
DIOCRAMACO
DENVATRANG
WELLDEFUYADI
GBAUMGAERUMI
DWYEJDONOWU
TDOFULEEDUANA

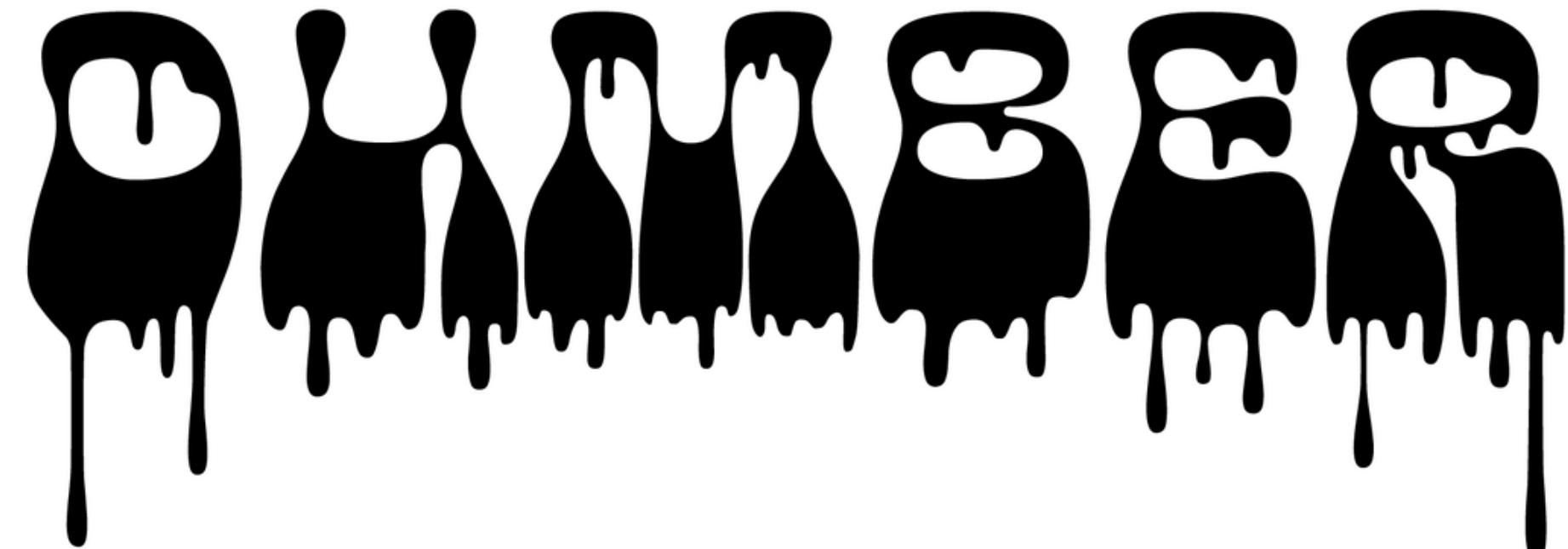
ICDECICMEDtOPI
DUGTABOUTANY
TUEERARDO
IntoDUGTABOUTANY
SPAACEY

Fit by David Jonathan Ross

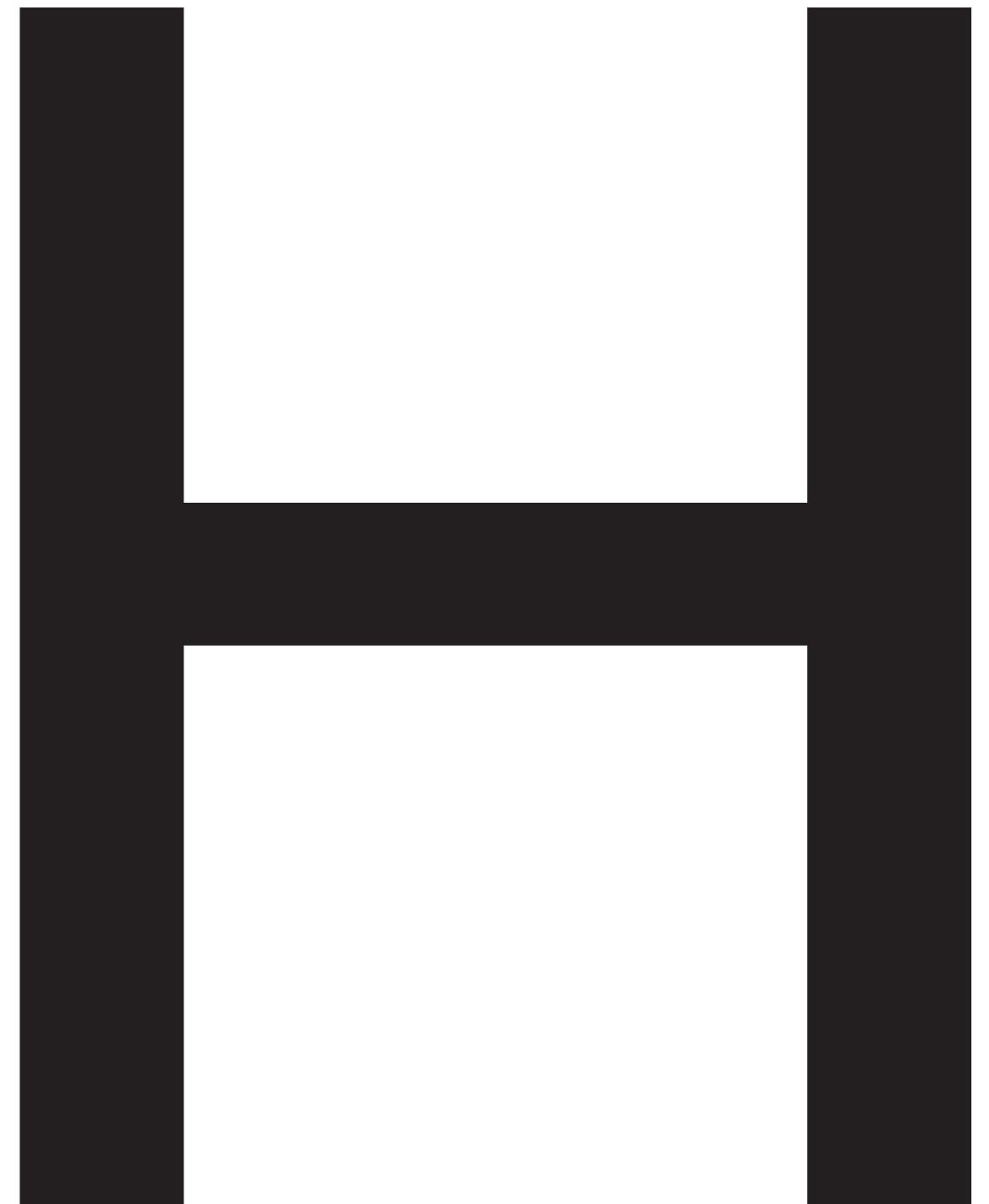


**B CON QUESO IS A SWEET
WY SAUCE, USED FOR
, THAT IS MADE FROM
OF MELTED CHEESE,
VELVEETA OR AN-
SED CHEESE, MC-
OR CREAM CHEESE,
DH, AND CHOCOLATE.**

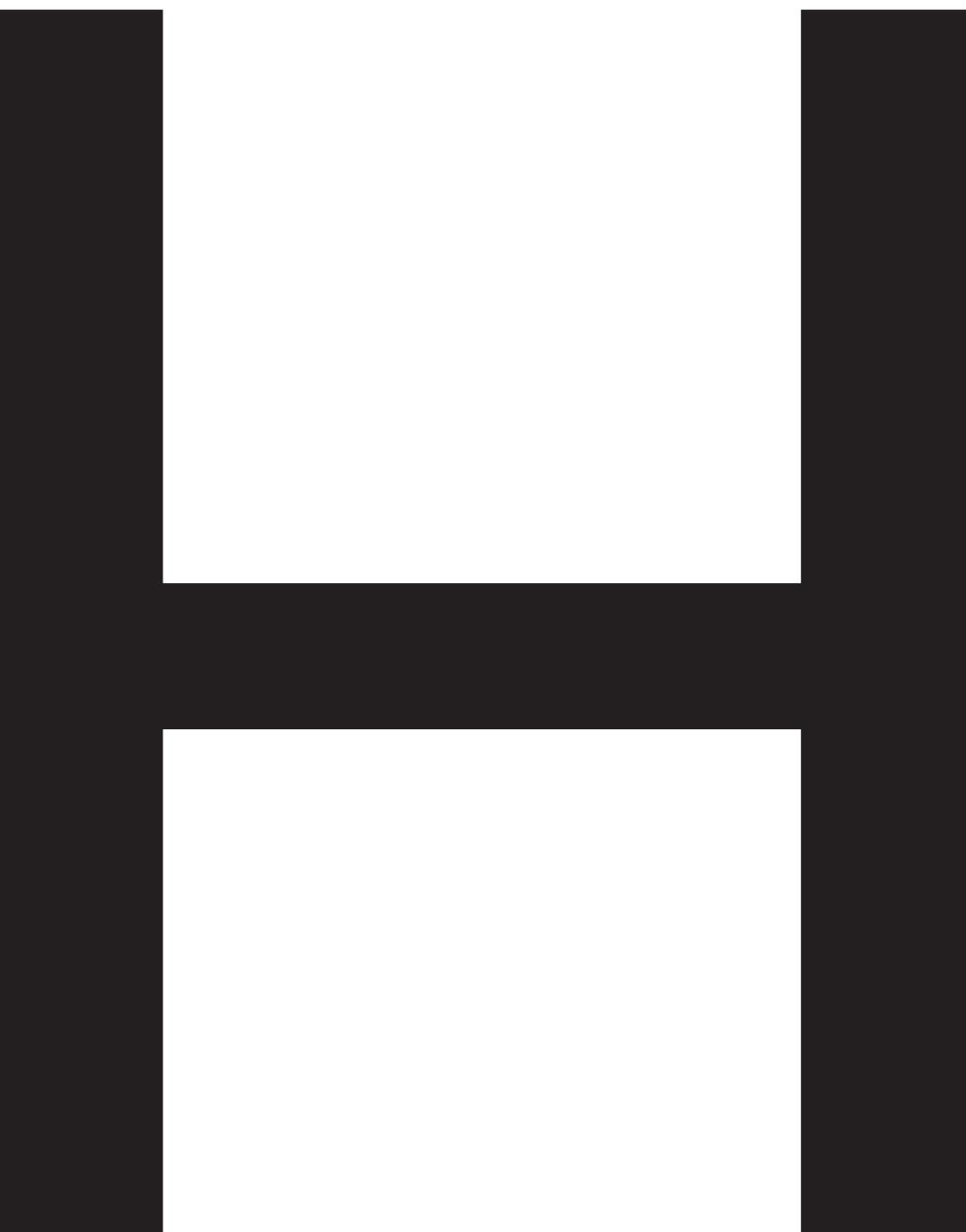
**THE DUMB FONT
THAT KEEPS GETTING**



The future
(and present)
of type
is really
exciting.



Correct



Turned 180°



Turned 90°



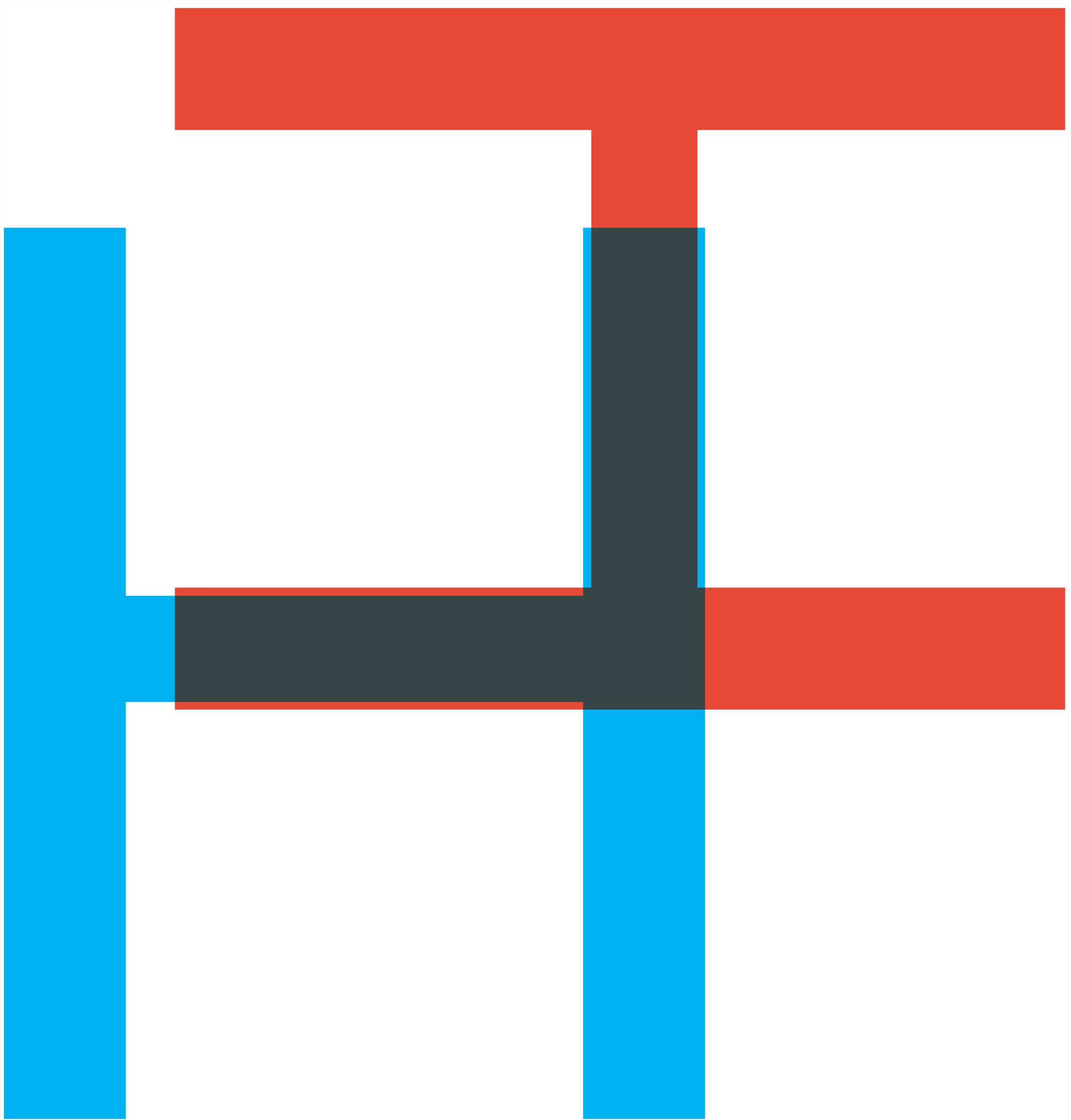
Correct

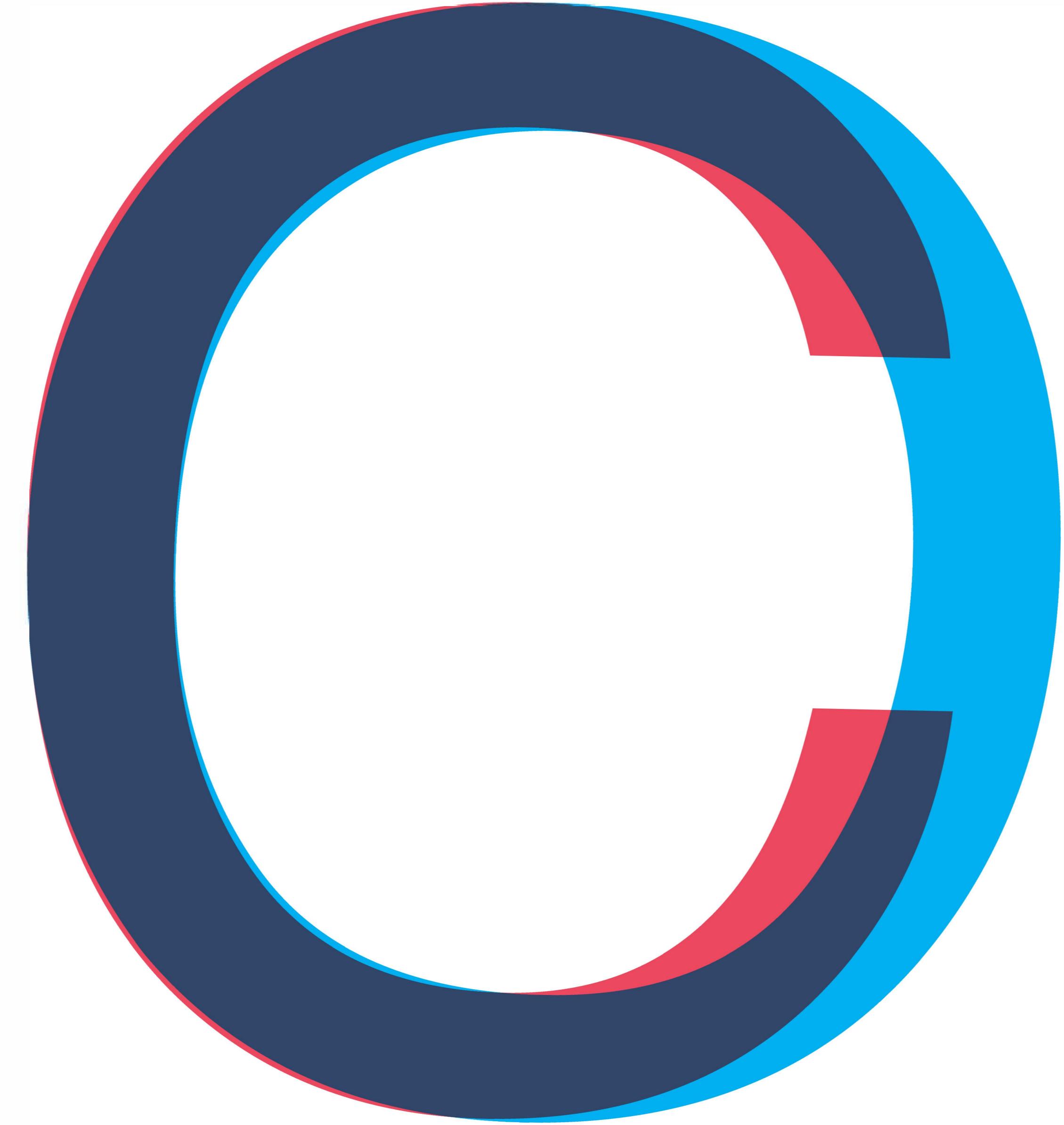


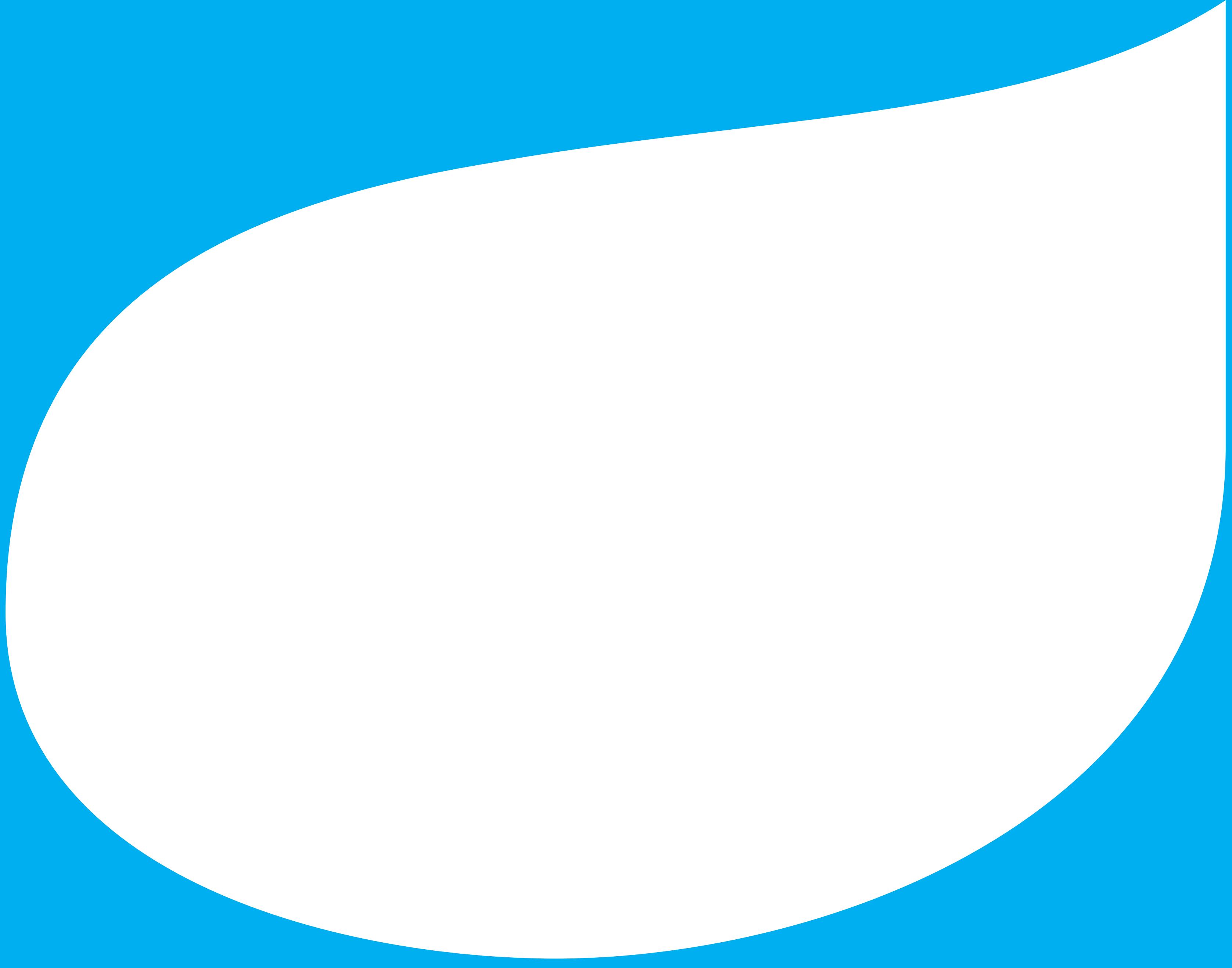
Turned 180°



Turned 90°









a

Helvetica

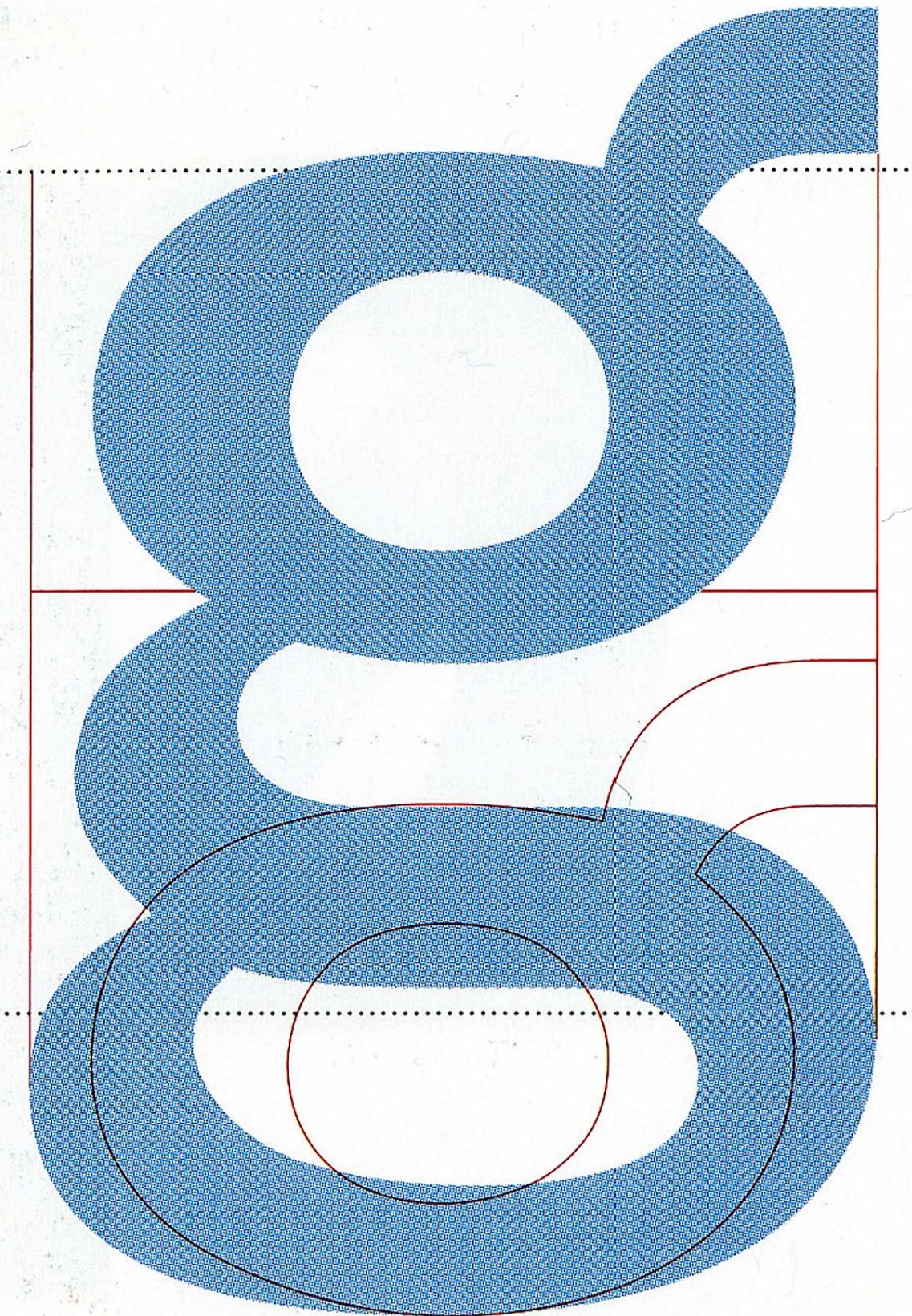
oi a

oi a

oi a

The balance of proportions among its three counter spaces defines the g's appearance. Even though their shapes differ, the color and enclosed areas of the two bowls roughly correspond.

Like the strokes of the e and the a, those of the two-story g are thinned to maintain even color.



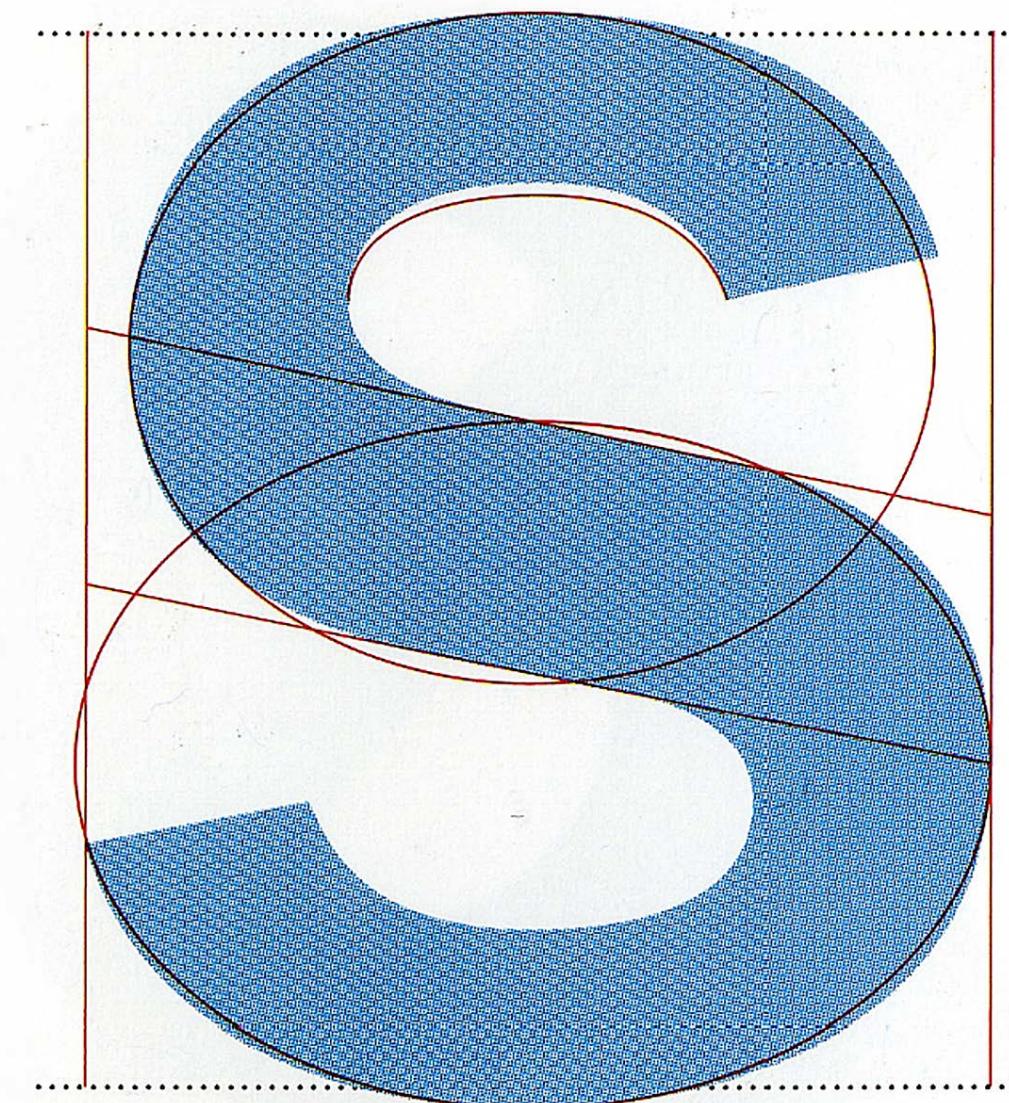
The single-story version of the g, more common in italics and modernist sans serifs, is easier to construct than its two-story sibling. One-story gs usually share traits with the bowl of the q.

The top bowl of the g is more rounded and narrower than its lower loop.

Fonts with long descenders frequently have gs with larger loops.

The curves and angles of the lowercase s relate to (without necessarily duplicating) the slightly more condensed forms of the capital S.

Thinning of the top and bottom horizontals keeps the s from appearing too dark.



The bottom bowl of the s is wider and taller than the top bowl.

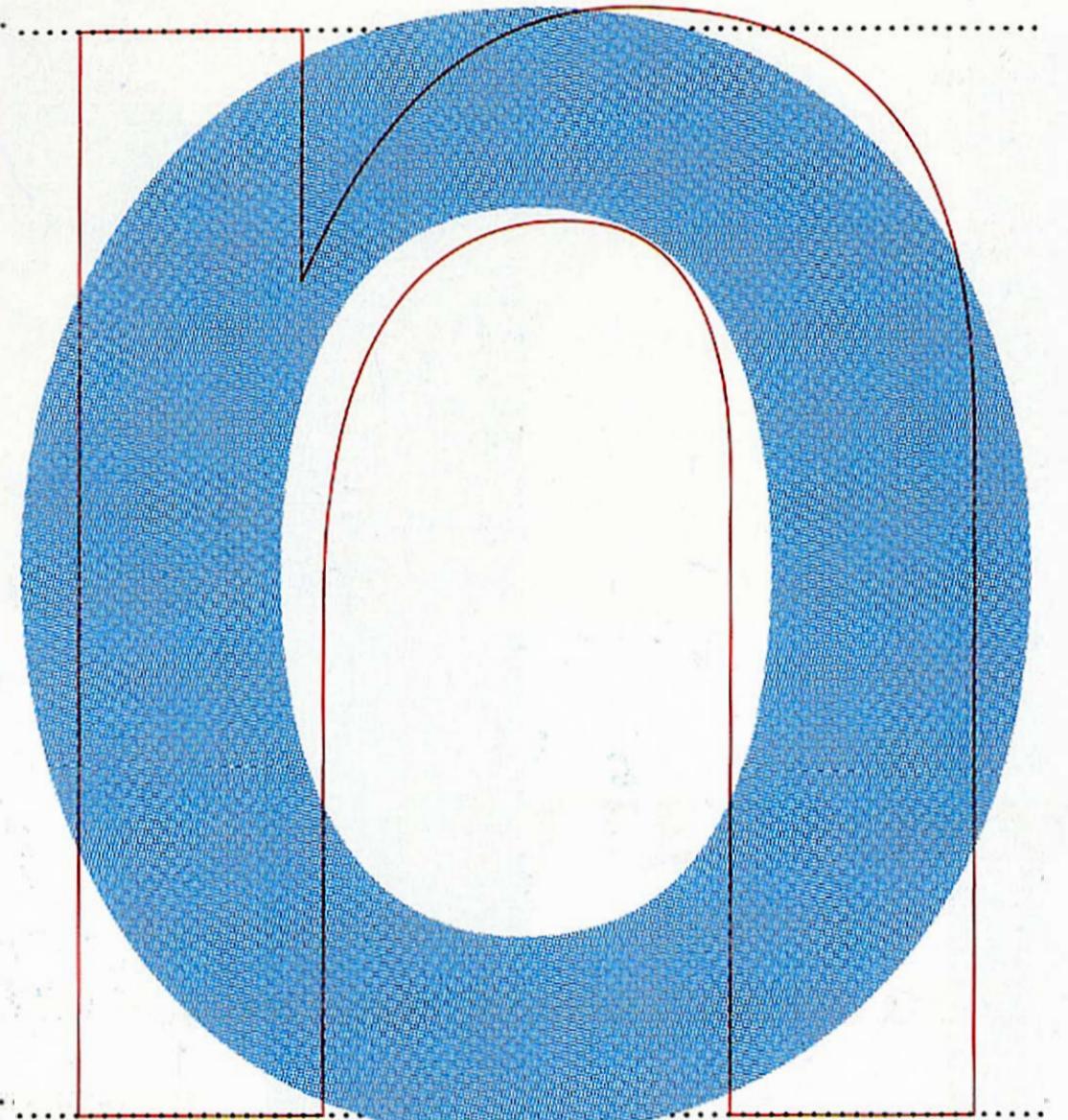
The s is not two joined semicircles. The distinct curves of the bowls join through the s's straight spine.

ggggggggggssssss

The lowercase o maintains more circular proportions in some typefaces, especially in geometric sans serifs and modern faces.

Less common is a boxy and flat-sided o, which can reduce or even eliminate the need for overshoots.

Curved strokes thin at the top and bottom and thicken at the sides.

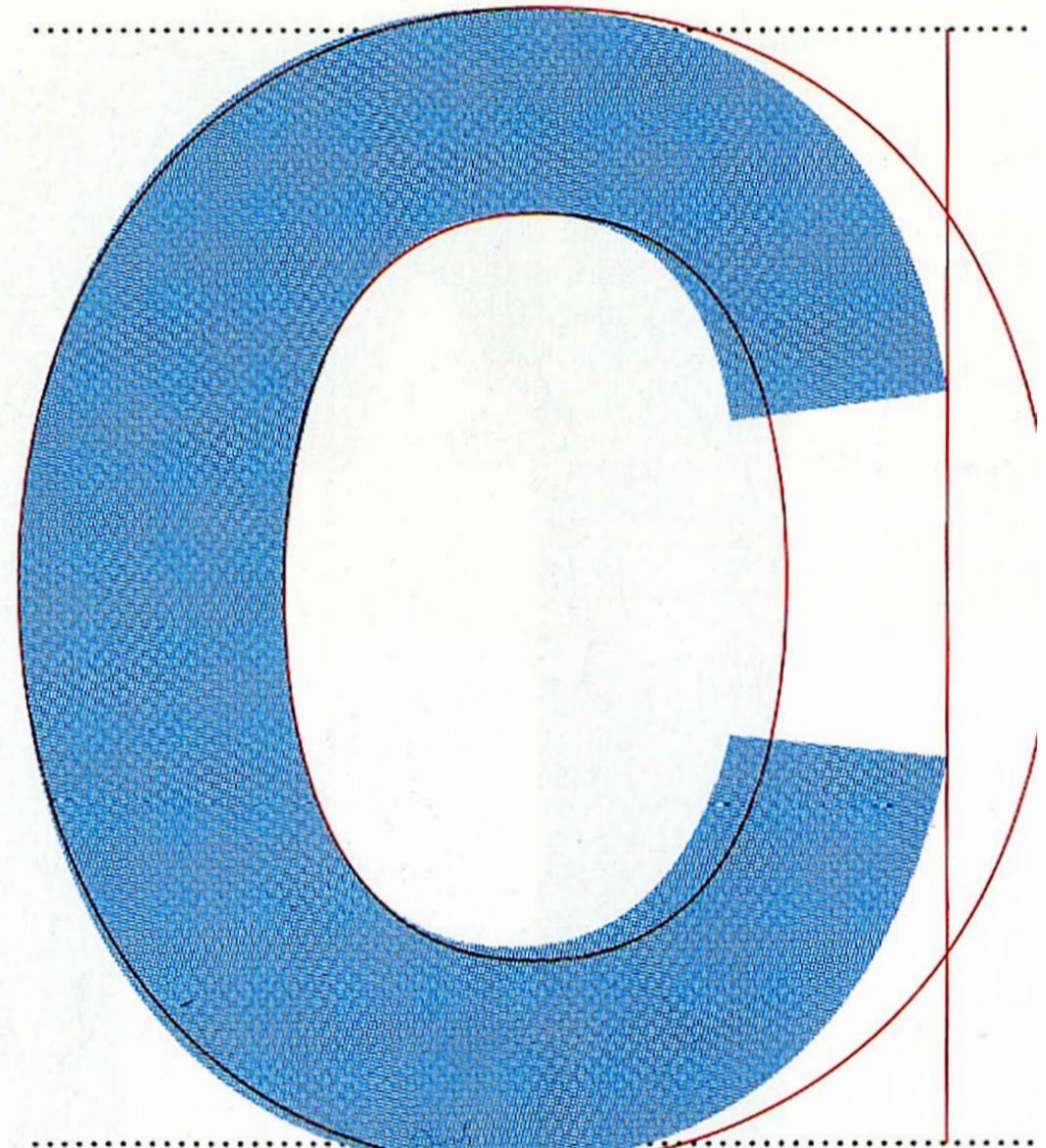


The shape of the counter and outside curves of the o establish the rounded forms that are carried throughout the typeface's system.

To avoid appearing small next to square and diagonal characters, the round lowercase letters all have overshoots and slightly broader widths.

The stroke emphasis of the o also determines the typeface's axis. Franklin Gothic has a vertical axis. Humanist typefaces typically have oblique stress, and the axis may vary from character to character.

The overhang of the c does not extend beyond the lower stroke.



The c is narrower than the o to compensate for its added negative space.

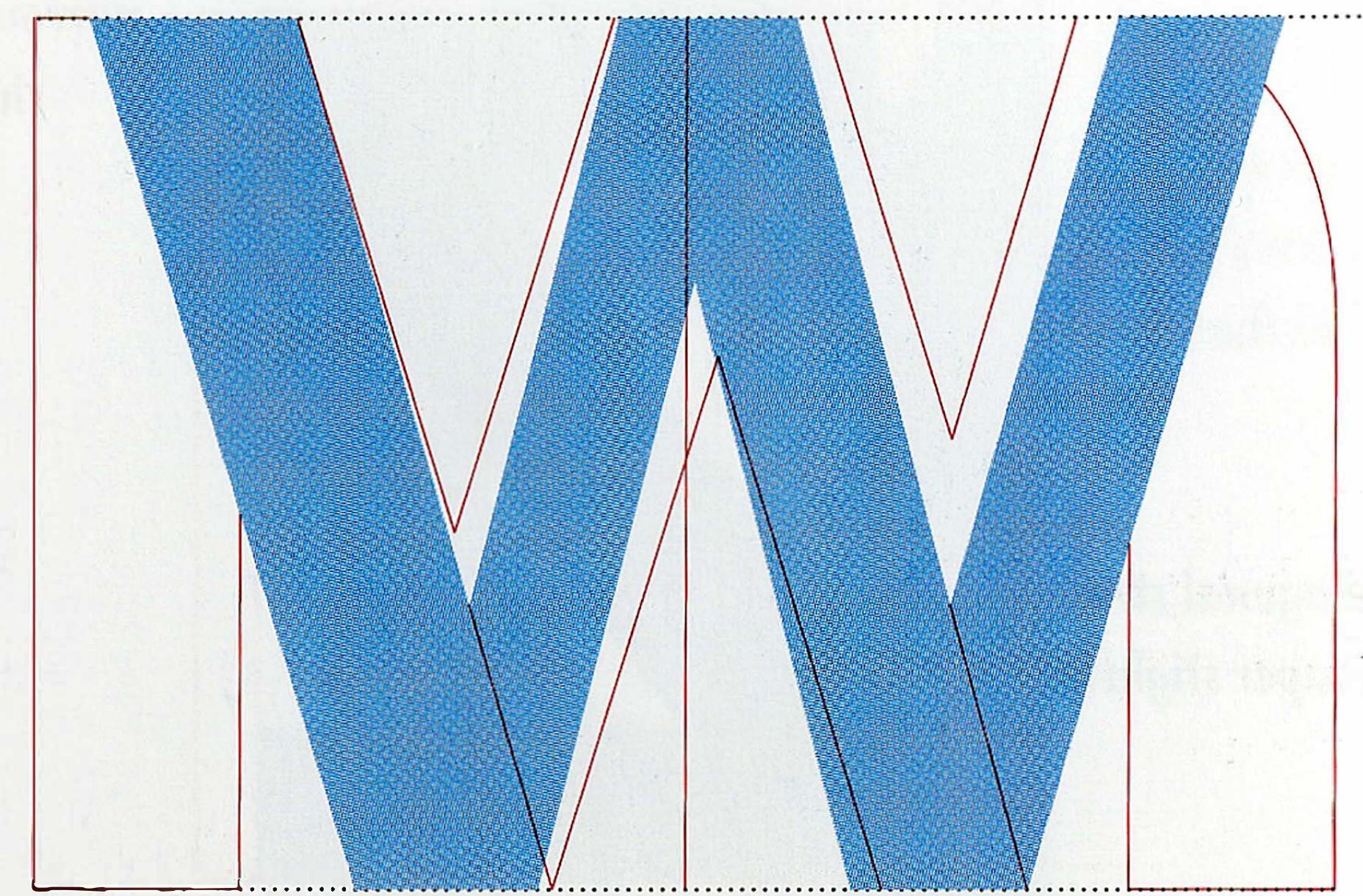
A c with an aperture that is too large may exhibit uneven color; however, apertures that are too small reduce legibility.

*The v's left diagonal is thicker than its right.
This difference in stroke weight is more
pronounced in faces with high contrast.*



*The strokes of many vs
taper as they approach
the join. Ink traps exist
at the joins in some
bolder typefaces.*

*The w is narrower than the m and
is frequently asymmetrical.*



*The angles of the w's two middle strokes
differ from those of the outer strokes, to keep
the character from becoming too wide.*

*Thinning and tapering, especially
noticeable on the middle strokes,
maintain the w's even color.*

*On some bold fonts, ink
traps may be added to relieve
heaviness at the joins.*

All type is
pure form.

It is a
compound set
of subjective
decisions.

“Type is a
beautiful
group
of letters,
not a group
of beautiful
letters.”

—Matthew Carter

ill1

Illi1

IIIi I

I11i1

Ill1

IIIIiI

III1

III1

III1

The dreaded Illi1 test

illi1

Illi1

IIIi I



Illi1

illi1

IIIiI

IIIi1

illi1

IIIi1

The dreaded illi1 test

What are
digital
revivals of
typefaces?

What does
that mean?



Claude Garamont.

Romain Parangon de Garamond

ne vulneratus & propter preu
 οεργηλαθεν απωσεκατον
 quitates noſtras, caſtigatio pác
 tas fuit nobis. Omnes ne
 uide ad viam suam Declina

D V M S V A S T A M E N D I F F E R E N T I A S P R O-
POSITVM, TAM IPSIS LIBRORVM AVTORIBVS,
QVAM TYPOGRAPHIS APPRIME UTILE
ET ACCOMMODATVM.

Esaiae Capitu-
lo. LII.

Canon de Ga-
ramond.

¶ Quis credidit Auditui nostro: & brachium Iehouæ cui Re-
uelatum est, Et ascendit sicut virgultum C O R A M eo, & velut
radix de terra deserti: Non erat forma ei, neque decor. ¶ A.E.

Petit Canon de Garamond.

Aspeximus autem eum^m, & non erat aspectus, & Non desiderauimus eum videre. Despe-
ctus fuit & Reiectus inter viros vir dolorum, & expertus Infirmitatem, & veluti absconsio
faciei Ab eo,despectus inquam, & non putauimus eum. Verè languores nostros ipse tulit,
& dolores nostros portauit, nos Autem reputauimus Eum plagis affectum, Percussum à
Deo & HVMILIA T VM. ¶ W. H. S. G. ¶

Romain Paragon de Garamond

Grec. Paragon de Robert Granjon

Cyrill Paragon de Granjon

Ipsæ autem vulneratus & propter preuaricationes nostras Attritus est [] rationem eius propter iniquitates nostræ, castigatio pacis nostræ super eum Et liuor eius sanitas fuit nōbis. Omnes nos sicut oues errauimus, vnuſquisque ad viam suam. Declinavit, & Iehouah coniecit in illum iniquitates omnium nostrum. Oppressus fuit, & ipse afflictus, & non Ap̄eruit os suum. Sicut agnus ad M A C T A T I O N E M ductus est, et velut ouis coram tondente se obiit.

Nec aperuit os suum. Ac carcere & iudicio sublatus est: & Gene-
sis 3:14 οὐτοὶ οὐδὲν δύνασθε ἐκατονταρχεῖν, καὶ σκληρὸν αὐτονόμηγαντας μετέβησαν] τῶν. ¶] quis enarrabit, Quia abcessas est è terra uiuentium, propter præ-
uaricationem populi Mei plaga fuit ei. Et dedit cum imp̄is sepul-
turam eius, & cum diuite in Mortesua: Quamvis iniquitatem
non fecerit, Nec dolus fuerit in ore eius. Iehouah Autem voluit
conterere eum & agrotare fecit eum: Quum posuerit seipsum sa-
crificium pro delicto Anima eius. ¶

The Egenolff-Berner specimen sheet showing work by Garamond (and Granjon), 1592.

A stylized letter 'g' from the Garamond font. It features a large, open circular top loop with a small tail extending to the right. Below it is a smaller, closed circular loop at the bottom left, connected by a thick, flowing vertical stroke.

Garamond

A stylized letter 'g' from the Adobe Garamond Premier Pro font. It has a large, open circular top loop with a small tail. Below it is a smaller, closed circular loop at the bottom left, connected by a thick, flowing vertical stroke. This design is very similar to the Garamond version.

Adobe Garamond Premier Pro

A stylized letter 'g' from the Adobe Garamond Pro font. It features a large, open circular top loop with a small tail. Below it is a smaller, closed circular loop at the bottom left, connected by a thick, flowing vertical stroke. This design is very similar to the other two.

Adobe Garamond Pro

Which of these is not like the other?

A stylized letter 'G' is formed by several overlapping, rounded, and slightly irregular concentric circles. The colors used include dark maroon, light maroon, red, light blue, and green. The design is minimalist and abstract, focusing on the form and color of the letter.

Garamond

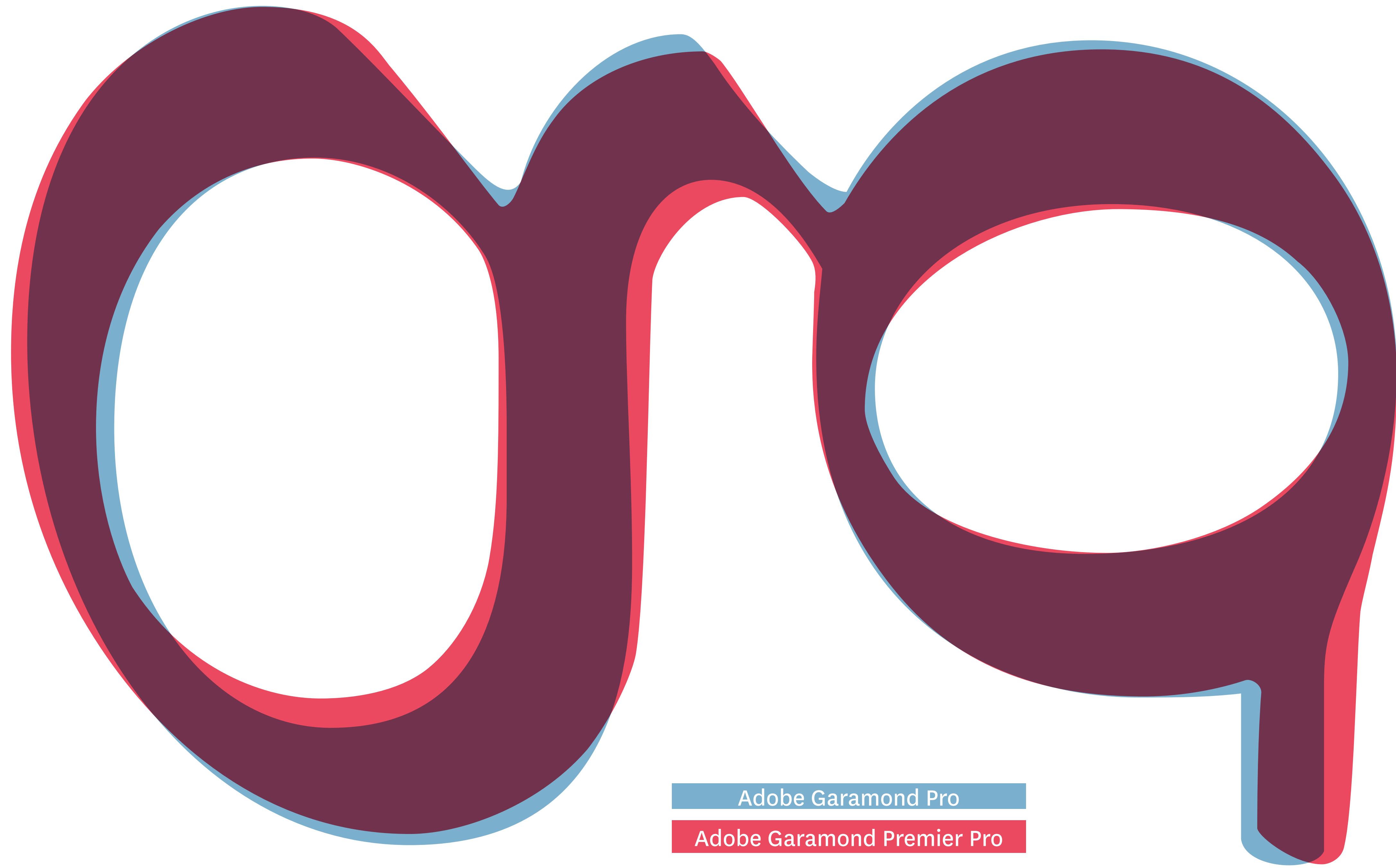
Adobe Garamond Pro

Adobe Garamond Premier Pro

A stylized letter 'G' is formed by several overlapping, rounded, and slightly irregular concentric circles. The colors used include dark maroon, light maroon, red, light blue, and green. The design is minimalist and abstract, focusing on the form and color of the letter.

Adobe Garamond Pro

Adobe Garamond Premier Pro



Adobe Garamond Pro

Adobe Garamond Premier Pro

Most typefaces
are designed
to work
at text sizes.

*That's anywhere
between
8 & 11
points in size.*

a

á

a a

But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain was born and I will give you a complete account of the system, and expound the actual teachings of the great explorer of the truth, the master-builder of human happiness. No one rejects, dislikes, or avoids pleasure itself, because it is pleasure, but because those who do not know how to pursue pleasure rationally encounter consequences that are extremely painful. Nor again is there anyone who loves or pursues or desires to obtain pain of itself, because it is pain, but because occasionally circumstances occur in which toil and pain can procure him some great pleasure. To take a trivial example, which of us ever undertakes laborious physical exercise, except to obtain some advantage from it? But who has any right to find fault with a man who chooses to enjoy a pleasure that has no annoying consequences, or one who avoids a pain that produces no resultant pleasure?

Adobe Garamond 10/13

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Berthold Garamond 10/13

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Adobe Garamond 16/20

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Berthold Garamond 16/20

*Let's take a
closer look at
four typefaces
styled after
the work of
Claude Garamont*



Aa Bb Cc Dd Ee Ff

Gg Hh Ii Jj Kk Ll

Mm Nn Oo Pp Qq

Rr Ss Tt Uu Vv Ww

Xx Yy Zz &

{[(1234567890)]}

Aa Bb Cc Dd Ee Ff
Gg Hh Ii Jj Kk Ll
Mm Nn Oo Pp Qq
Rr Ss Tt Uu Vv Ww
Xx Yy Zz &
{ [(1234567890)] }

Aa Bb Cc Dd Ee Ff
Gg Hh Ii Jj Kk Ll
Mm Nn Oo Pp Qq
Rr Ss Tt Uu Vv Ww
Xx Yy Zz &
{{(1234567890)}}
STEMPEL GARAMOND

Aa Bb Cc Dd Ee Ff
Gg Hh Ii Jj Kk Ll
Mm Nn Oo Pp Qq
Rr Ss Tt Uu Vv Ww
Xx Yy Zz &
{ (1234567890) }

Adobe Garamond

Aa

Berthold Garamond

Aa

Stempel Garamond

Aa

Sabon

Aa

Adobe Garamond

Pp

Berthold Garamond

Pp

Stempel Garamond

Pp

Sabon

Pp

Adobe Garamond



Qq

Berthold Garamond



Qq

Stempel Garamond



Qq

Sabon



Qq

A

A

A

A

A

Adobe Garamond

Berthold Garamond

Stempel Garamond

Sabon

A

J

Adobe Garamond

J

Berthold Garamond

J

Stempel Garamond

J

Sabon

a

u

Adobe Garamond

u

Berthold Garamond

u

Stempel Garamond

u

Sabon



k

K

K

K

K

Adobe Garamond

Berthold Garamond

Stempel Garamond

Sabon

R

R

R

R

R

Adobe Garamond

Berthold Garamond

Stempel Garamond

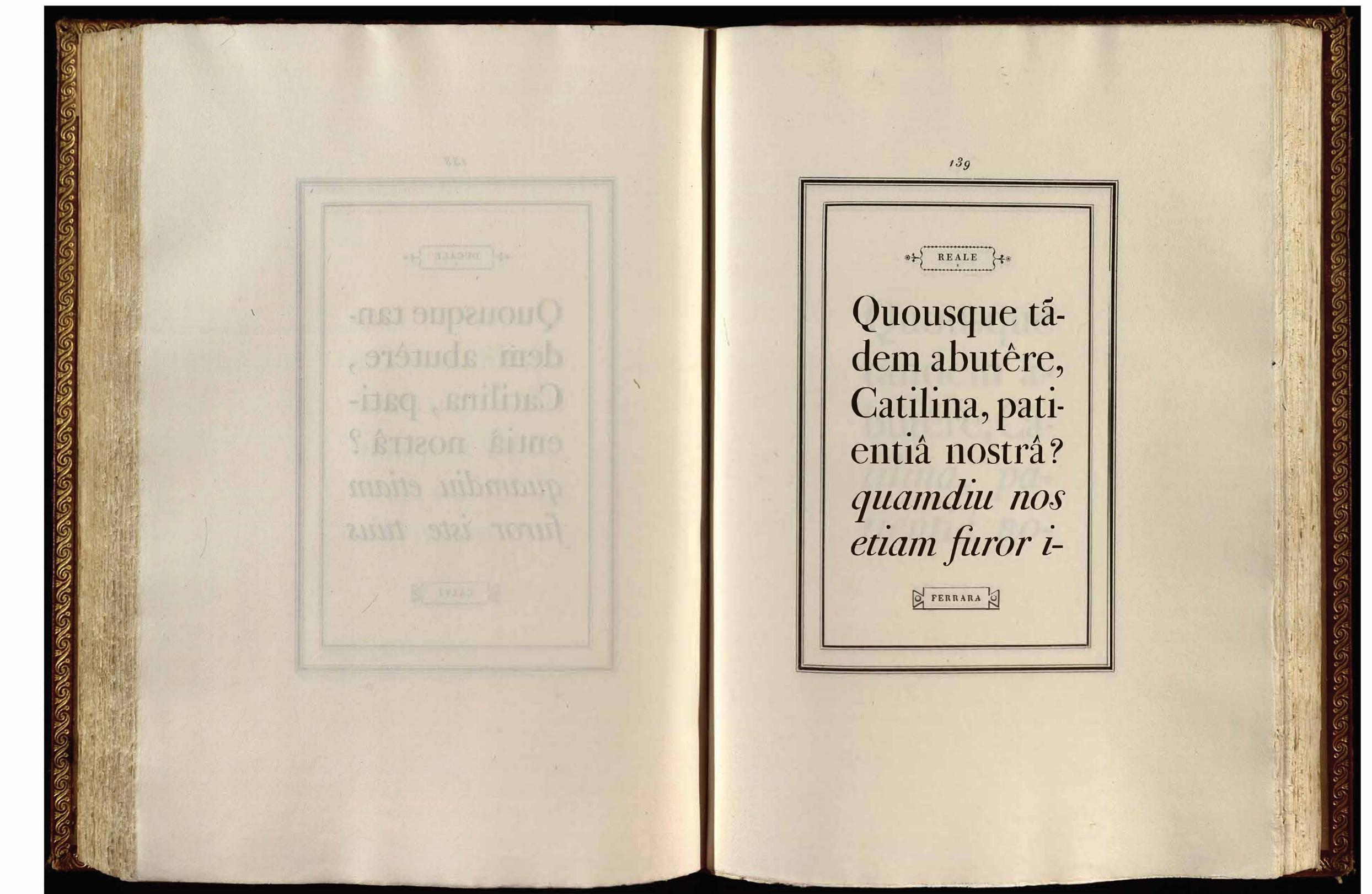
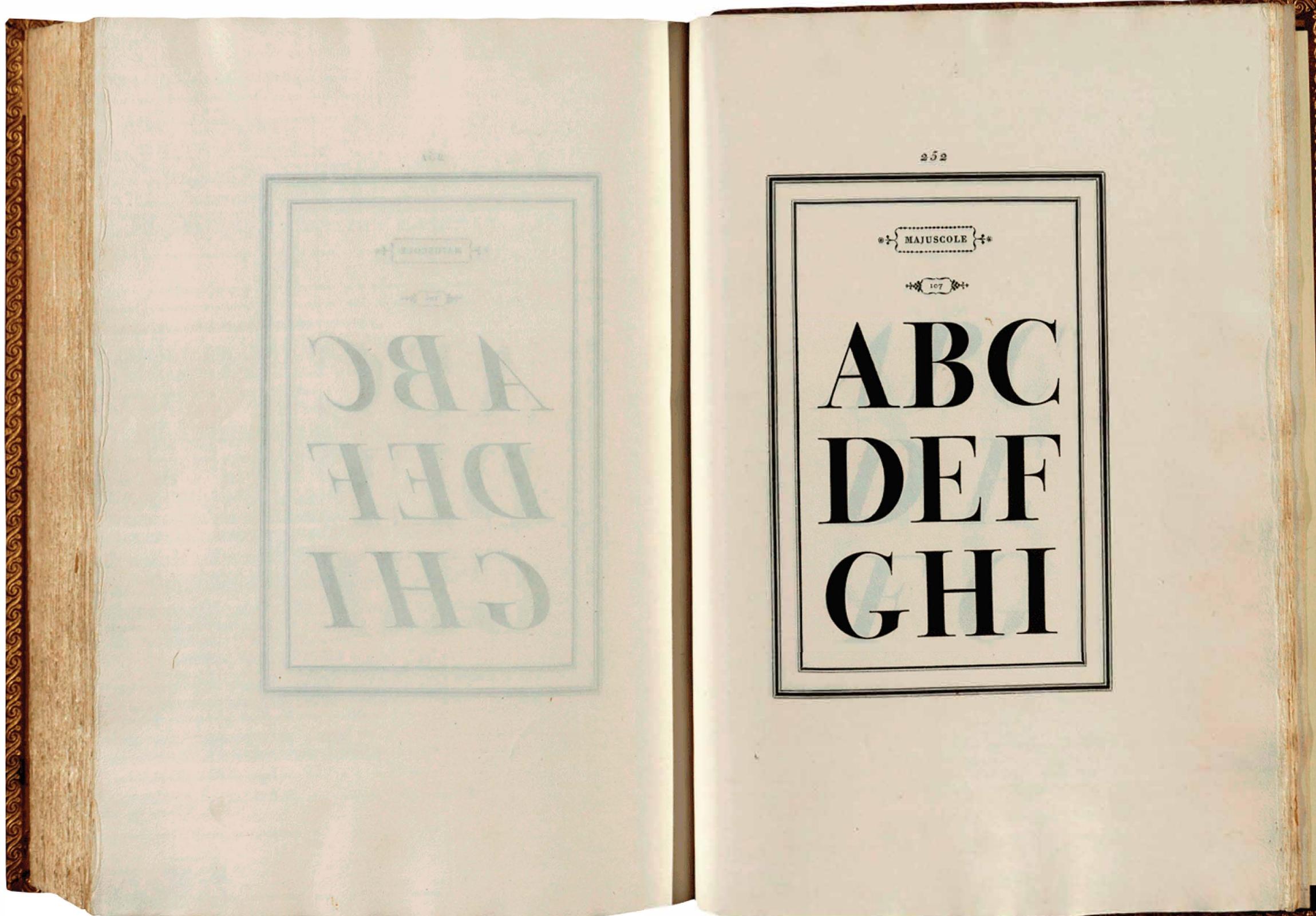
Sabon



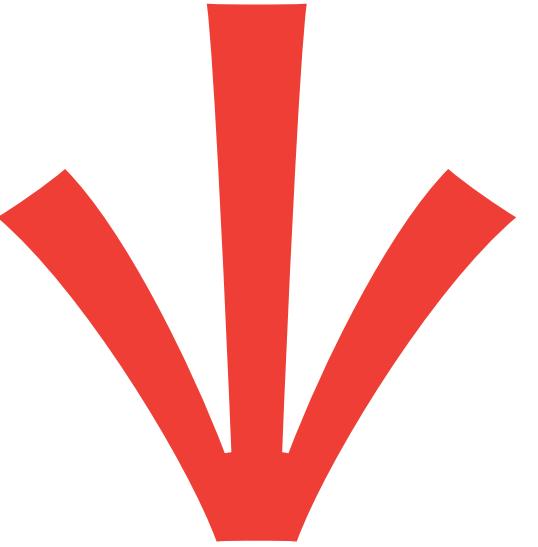
Hic ille est Magnus, typica quo nullus in arte
Plures depromsit divitias, veneres.



MANUALE
TIPOGRAFICO



*Let's take a
closer look at
some typefaces
in the
Modern serif
(Didone) style*



Aa Bb Cc Dd Ee Ff Gg

Hh Ii Jj Kk Ll Mm Nn

Oo Pp Qq Rr Ss Tt Uu

Vv Ww Xx Yy Zz &

{[(1234567890)]}

Aa Bb Cc Dd Ee Ff Gg

Hh Ii Jj Kk Ll Mm Nn

Oo Pp Qq Rr Ss Tt Uu

Vv Ww Xx Yy Zz &

{[(1234567890)]}

Aa Bb Cc Dd Ee Ff Gg

Hh Ii Jj Kk Ll Mm Nn

Oo Pp Qq Rr Ss Tt Uu

Vv Ww Xx Yy Zz &

{[(1234567890)]}

Aa Bb Cc Dd Ee Ff Gg
Hh Ii Jj Kk Ll Mm Nn
Oo Pp Qq Rr Ss Tt Uu
Vv Ww Xx Yy Zz &
{[(1234567890)]}

Aa Bb Cc Dd Ee Ff Gg
Hh Ii Jj Kk Ll Mm Nn
Oo Pp Qq Rr Ss Tt Uu
Vv Ww Xx Yy Zz &
{{(1234567890)}}]

Aa Bb Cc Dd Ee Ff Gg

Hh Ii Jj Kk Ll Mm Nn

Oo Pp Qq Rr Ss Tt Uu

Vv Ww Xx Yy Zz &

{[(1234567890)]}

A horizontal row of five lowercase 'a' characters, each in a different Bodoni-style font. The characters are black on a white background, arranged side-by-side. Above the row is a thin blue horizontal line.

a a a a a

Bauer Bodoni

Bodoni (Adobe)

Bodoni MT (Monotype)

Bodoni BE (Berthold)

Linotype Didot

Berthold Walbaum

A horizontal row of five lowercase 'g' characters, each in a different Bodoni-style font. The characters are black on a white background, arranged side-by-side. Above the row is a thin blue horizontal line.

g g g g g

Bauer Bodoni

Bodoni (Adobe)

Bodoni MT (Monotype)

Bodoni BE (Berthold)

Linotype Didot

Berthold Walbaum

t t t t t t

Bauer Bodoni

Bodoni (Adobe)

Bodoni MT (Monotype)

Bodoni BE (Berthold)

Linotype Didot

Berthold Walbaum

K K K K K K

Bauer Bodoni

Bodoni (Adobe)

Bodoni MT (Monotype)

Bodoni BE (Berthold)

Linotype Didot

Berthold Walbaum

*How
&
Why
is this
useful?*

Here are two
ways that this
can help.

Victory

Victory

Victory

Victory

Victory

Victory

Victory

Victory

Victory

Cast a wide net

Victory

Victory

Victory

Victory

Victory

Victory

Victory

Victory

Victory

Narrow down

Victory

Victory

Victory

Victory

Victory

Victory

Victory

Victory

Victory

?

Victory

Victory →

Victory

Victory

Think laterally

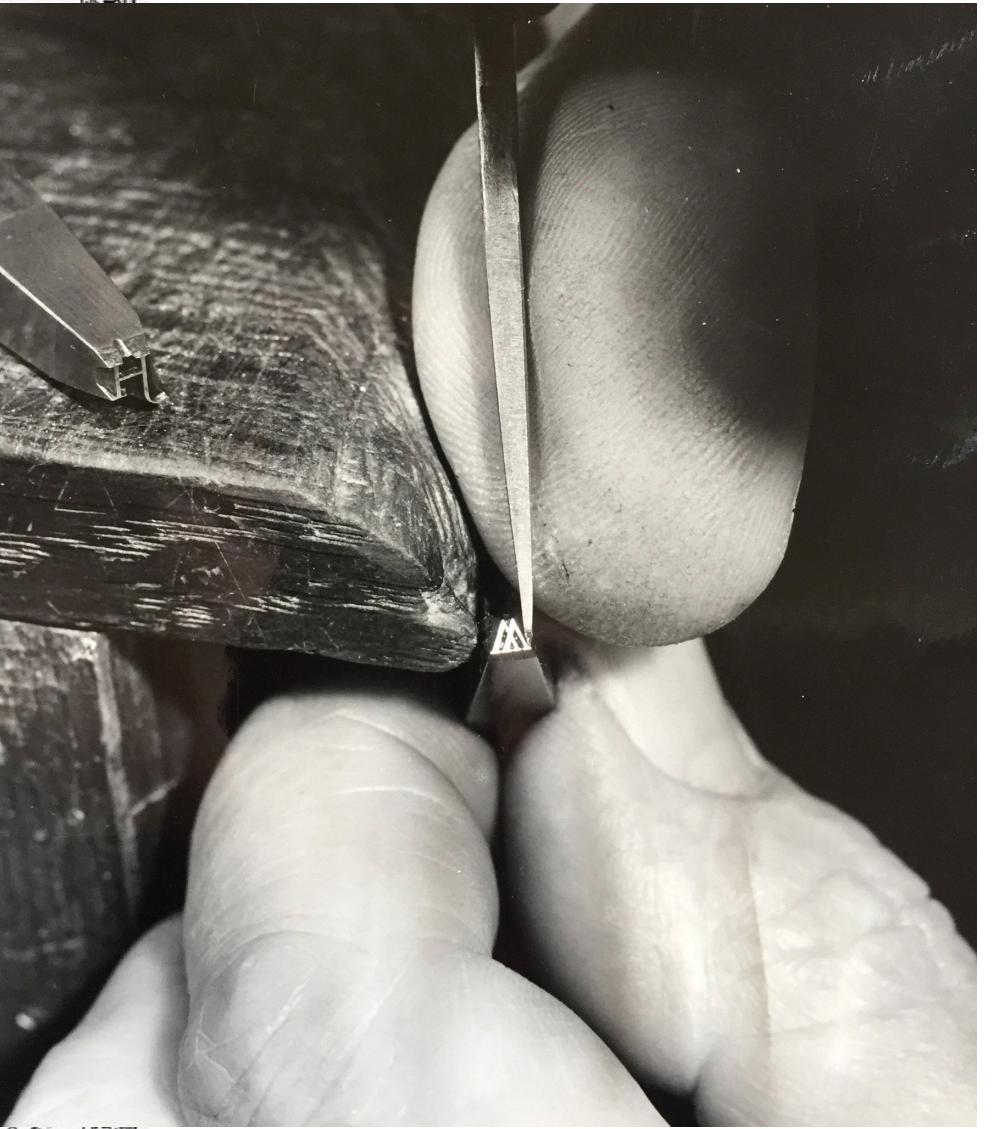
Victory

Victory

Victory ↘

Victory

ASIDE: Optical sizes



Optical Sizes

Mercury Display

Optical Sizes

Mercury Text G1

Optical Sizes

Mercury Text G2

Optical Sizes

Mercury Text G3

Optical Sizes

Warnock Pro Display

Optical Sizes

Warnock Pro Subhead

Optical Sizes

Warnock Pro Regular

Optical Sizes

Warnock Pro Caption

Optical Sizes

Optical Sizes

Optical Sizes

Optical Sizes

Mercury Text G1

Optical Sizes

Optical Sizes

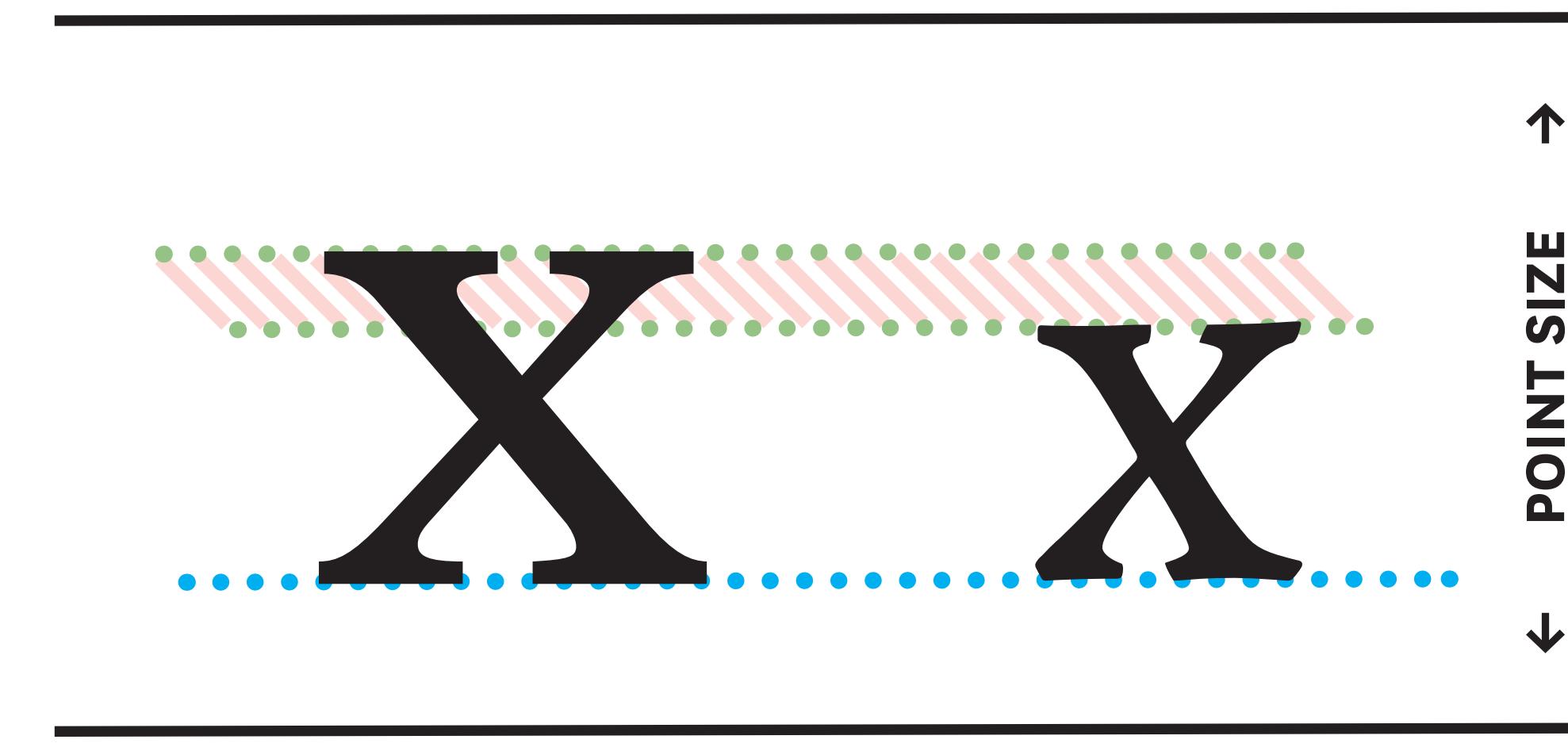
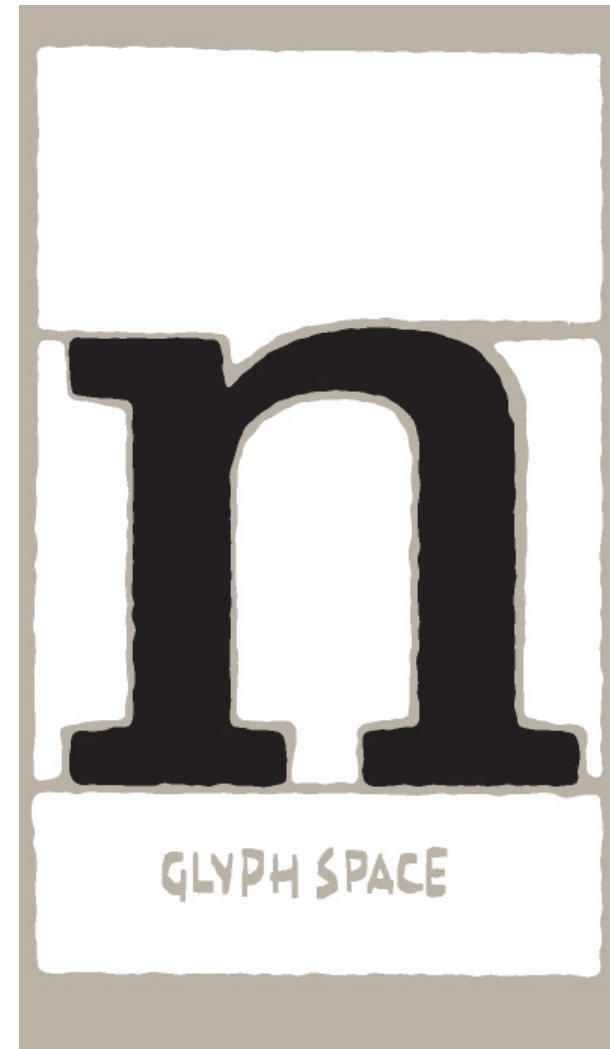
Optical Sizes

Optical Sizes

Mercury Text G1 & G2

Another useful detail to look at is the size of the extenders.

It can play a role in how your text sets.



Gazzette 312pt

Adobe Jenson 312pt

Glyph space defines the overall point size, but the x-height can vary.

Height Height Height

Gazzette 140pt

ITC Galliard 160pt

Adobe Jenson 180pt

*Extenders (ascenders and descenders)
often vary from typeface to typeface*

Photo booth squid semiotics, chambray freegan yr banjo Kickstarter Vice craft beer chillwave small batch tote bag. Kitsch blog mumblecore, disrupt photo booth single-origin coffee semiotics narwhal crucifix messenger bag gastropub. Flannel drinking vinegar keytar, literally fanny pack Intelligentsia Banksy synth banjo irony readymade cornhole. Craft beer biodiesel Tumblr chia, gentrify tote bag beard cornhole stumptown PBR swag master cleanse banjo. Farm-to-table before they sold out Odd Future post-ironic ethical. Four dollar toast meggings 3 wolf moon paleo Intelligentsia, jean shorts swag fashion axe shabby chic leggings +1 selvage aesthetic beard. Mlkshk single-origin coffee keytar, fashion axe banh mi quinoa Carles Intelligentsia typewriter pop-up.

Echo Park bespoke American Apparel flannel Wes Anderson. Banh mi Schlitz mustache, wayfarers mlkshk distillery wolf PBR cornhole Williamsburg skateboard. Ugh polaroid iPhone mustache Helvetica fap. Scenester fanny pack American Apparel hoodie, cliche Tumblr meh semiotics +1 typewriter artisan. Migas try-hard stumptown direct trade XOXO. Fanny pack stumptown keytar quinoa scenester. Polaroid chambray cronut authentic pug dreamcatcher, farm-to-table brunch trust fund banh mi 8-bit four dollar toast direct trade Williamsburg VHS. 2001

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Gazzette 7.5/9.5

ITC Galliard 8.5/10.25

Adobe Jenson 9/10.75

Pick the *right*
typeface for
the *right* job.

Look closely
at the forms
inherent in
each typeface.