

CSS Typography

Typefaces, Fonts, & Formatting

R. Scott Granneman & Jans Carton

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in a Web development company in St. Louis, Missouri. Scott has written six books, for SecurityFocus and *Linux Magazine*. He is an Adjunct Professor at Washington University in technology, security, web development, & the Internet. As a Principal of [WebSanity](#), he states using an open source, UNIX-based [content management system](#). He has given speaking to people.

Why?



“Perfect typography is certainly the most elusive of all arts. Sculpture in stone alone comes near it in obstinacy.” —Jan Tschichold, calligrapher, typographer, & book designer



“Sometimes I get
emotional over fonts.”
—Kanye West

“95% of the information on the web is written language. It is only logical to say that a web designer should get good training in the main discipline of shaping written information, in other words: Typography.” —iA
(Information Architects Inc.)

“[T]ypography is important for one reason: because it is the primary way that designers can communicate with readers...

When it comes to web design, typography ... is the art of dividing up bundles of information in such a way that the reader will have a good chance of finding what is of interest to him...” —Arfa Mirza

First Big Bank of America

First Big Bank of America

First Big Bank of America

FIRST BIG BANK OF AMERICA

“From a child I was fond of Reading, and all the little Money that came into my Hands was ever laid out in Books. ... Often I sat up in my Room reading the greatest Part of the Night, when the Book was borrow’d in the Evening and to be return’d early in the Morning lest it should be miss’d or wanted.” —*The Autobiography of Benjamin Franklin*

Basics

Typefaces, Fonts, Glyphs, & Characters

Character: individual letters, numbers, & symbols (s, \$, !, & 7) that collectively form words, sentences, formulas...

Glyph: specific appearance of a character

Font: physical embodiment of a collection of glyphs; e.g., metal movable type or a computer file

Typeface: the design of the collection; the way it looks

Characters

In linguistics, a *grapheme* is the smallest unit of a writing system of a language: f & 5 ? + 漢 ı Ğ И 𐀀

(A *phoneme* is a unit of sound: /b/ for the grapheme **b**, or /ʃ/ for the grapheme **sh**)

In typography, a *character* is roughly similar to a grapheme

Glyphs

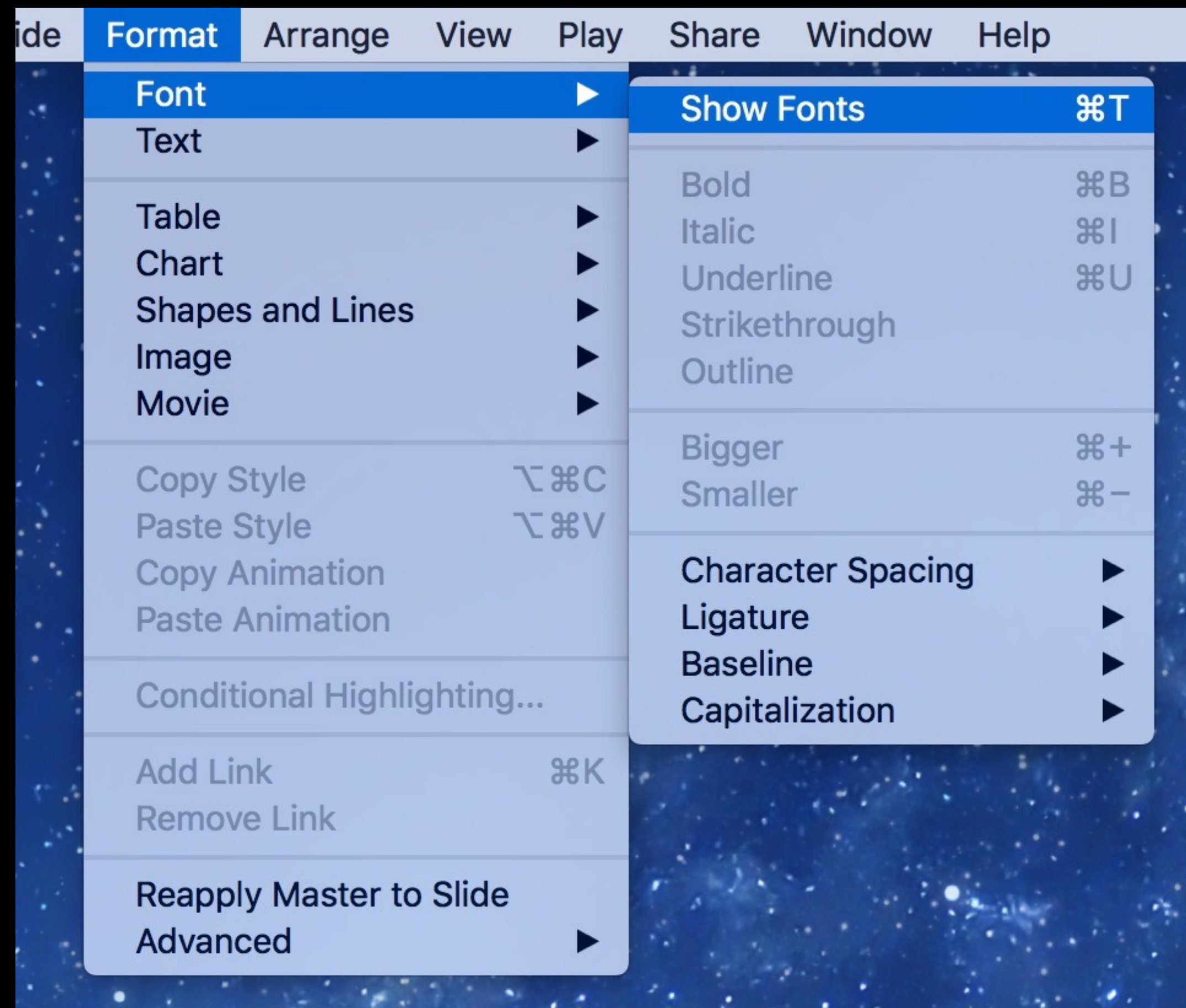
A *glyph* describe a specific visual appearance or shape of a character

d d d d d d d d

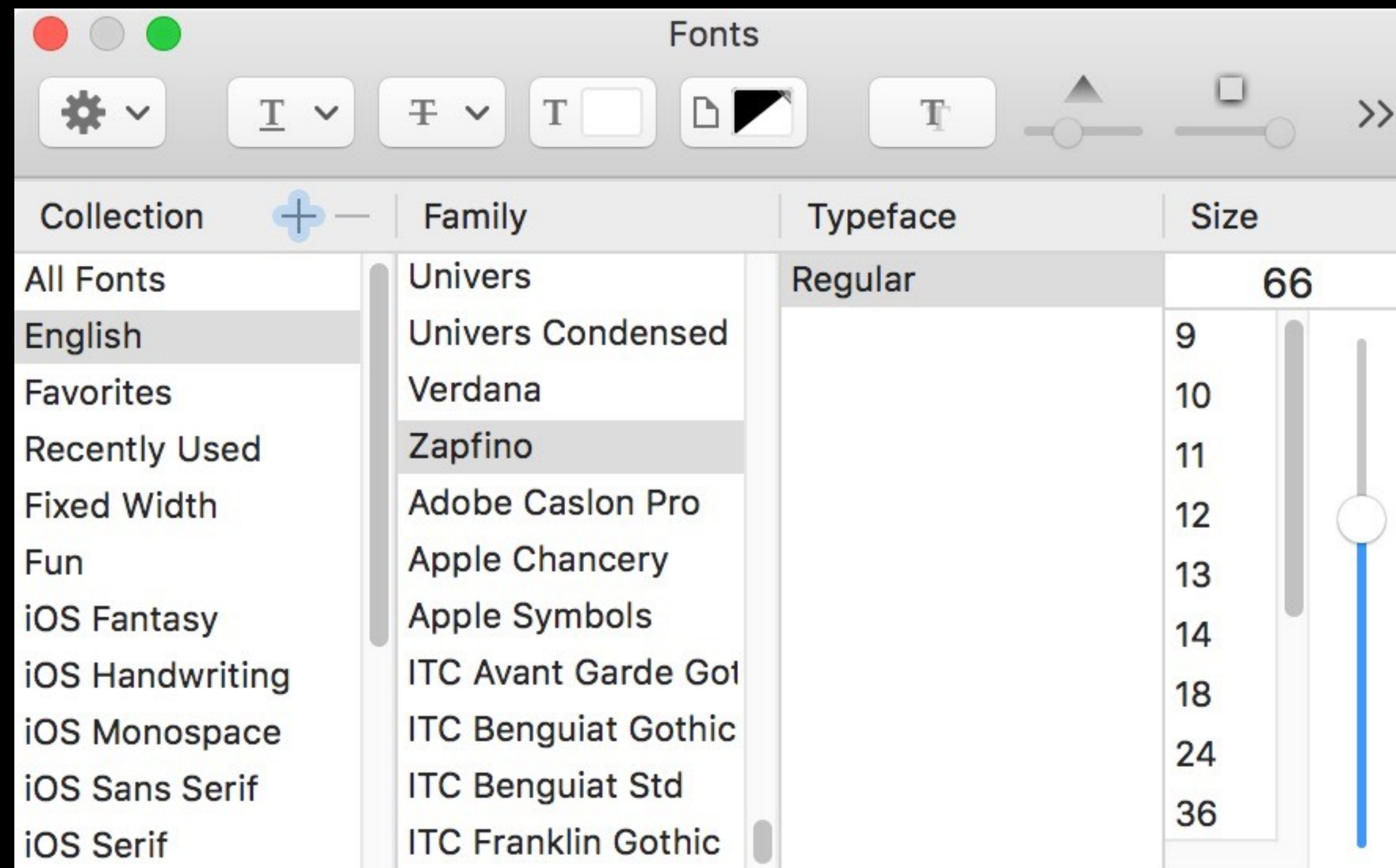
4 4

z z z z

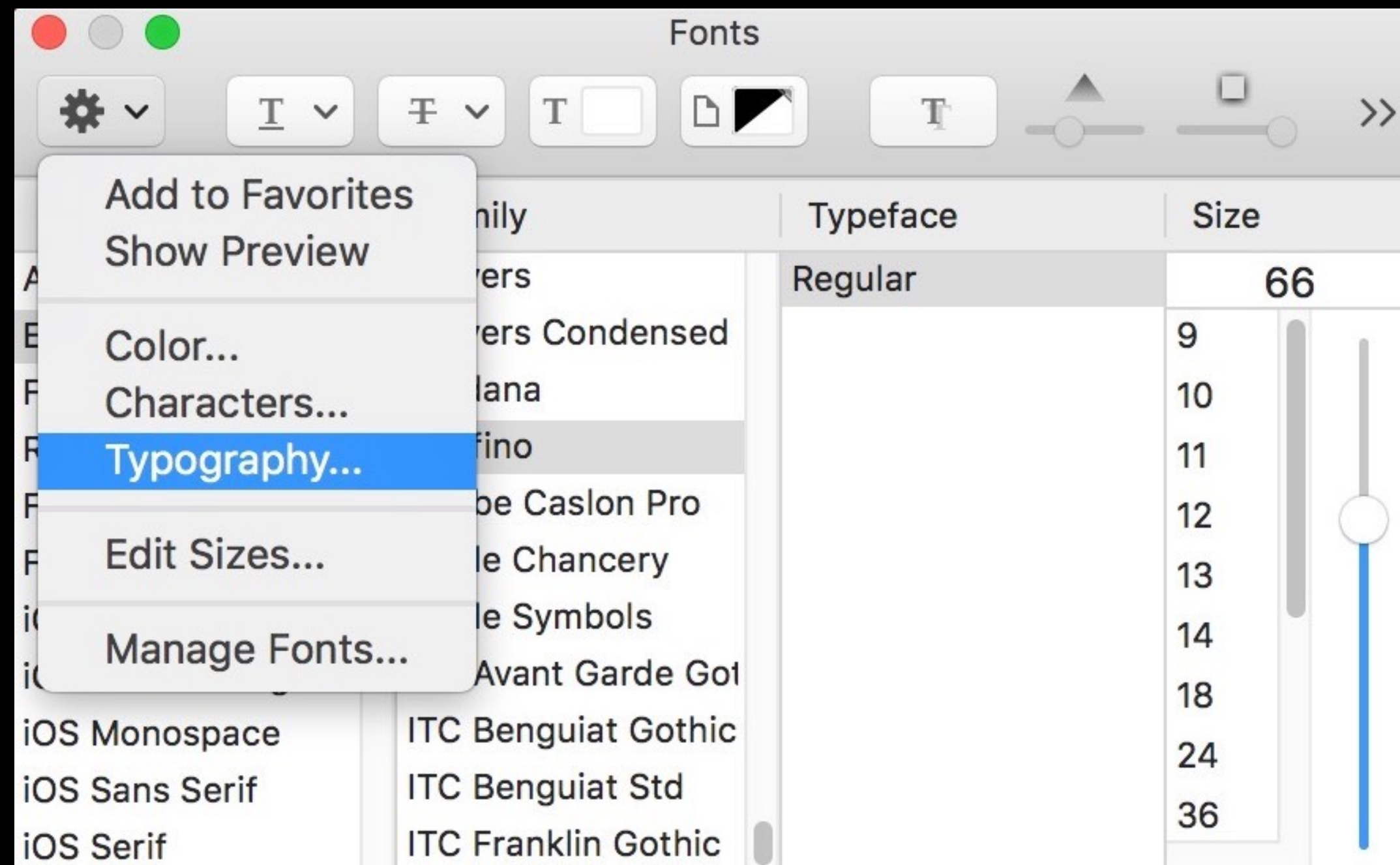
Zapfino variations of d, 4, & z



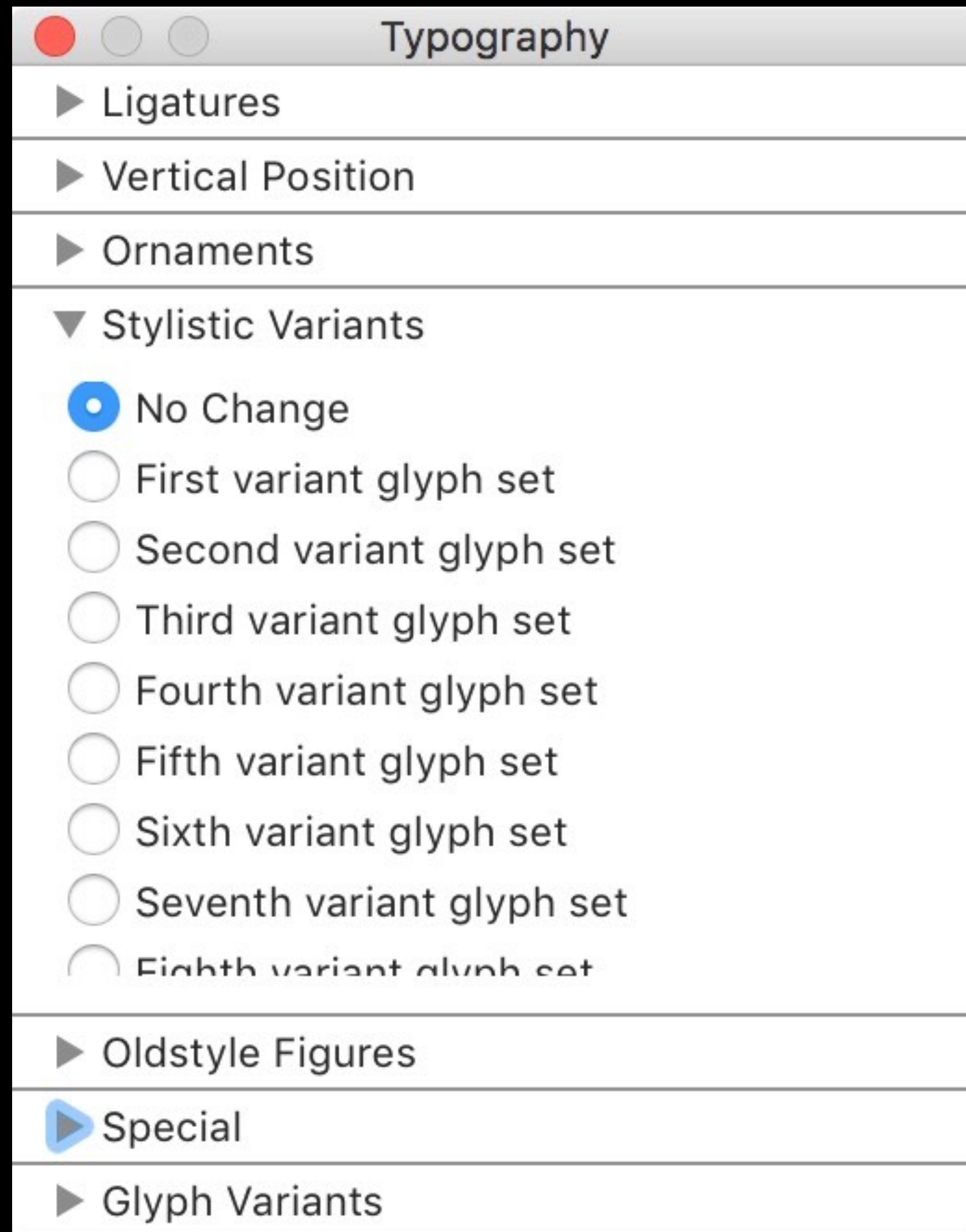
To access font variants on a Mac, start by selecting text & then select Format > Font > Show Fonts



In the Fonts window, select the Family & Typeface



Select the Action Menu >
Typography



Expand Stylistic Variants
& make your selection(s)

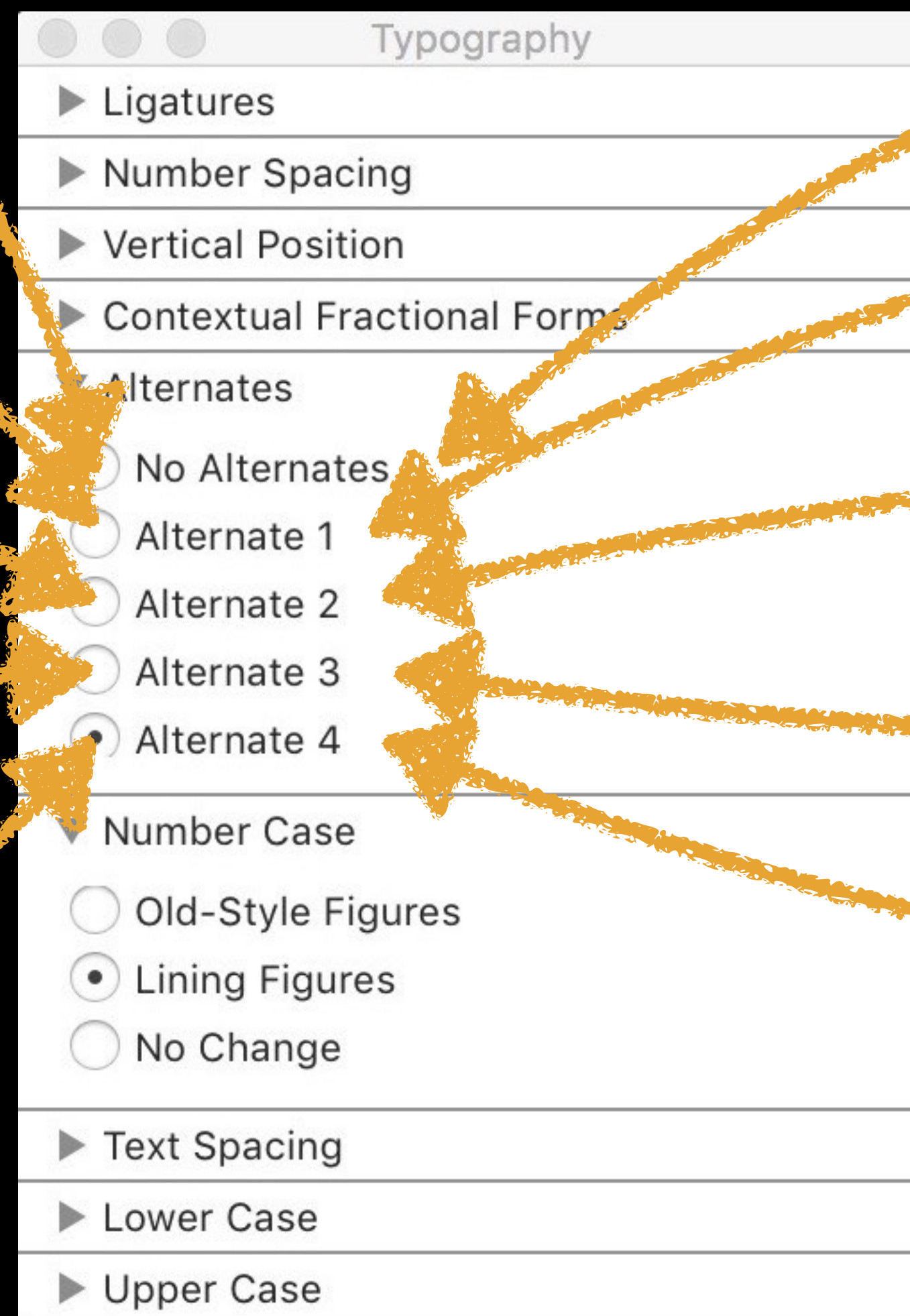
1234567890

1234567890

1234567890

1234567890

1234567890



Digit

Superscript

Subscript

Old Style

Lining

Noto has ~64,000 glyphs because it's trying to eventually cover all 128,000 characters in Unicode 9

Georgia Pro (the font you're seeing here) has 857 glyphs

Recia contains 516 glyphs



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	Æ	Œ
Ł	Ø	Ð	Þ	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	æ	œ	ł	ø	ð	þ	ß	ı	ı	fi	fl	ff
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\$	¥	£	₹	¢	0	1	2	3	4	5	6	7	8
9	0	°	%	‰	/	/	0	1	2	3	4	5	6
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3/5	4/5	1/6	5/6	1/7	2/7	3/7	4/7	5/7	6/7	1/9	2/9	4/9	5/9
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∞	◇	√	∫	∂	Π	π	μ	Σ	Ω	Ω	Δ	Δ	ℓ
e													

RECIA COMPLETE (10 fonts)

240.00 USD

[←](#) Back (94 Fonts) [→](#)

Numbers are often either *modern* or *old style*

0123456789 or 0123456789

Modern figures 0123456789

- » AKA *lining* or *titling* figures
- » All numbers are same height as uppercase letters
- » Great for math & science, but not as attractive in text

Old style figures 0123456789

- » *AKA text, non-lining, lowercase, ranging, hanging, medieval, billing, or antique figures*
- » Varying heights to fit in more with text, with ascenders & descenders
- » Great for text, as they fit in more with letters & are easier to read

Fonts

“*font* is what you use, and *typeface* is what you see.”
—Norbert Florendo

Weight: thickness of the strokes that make up the letters, numbers, etc. of the typeface (e.g., light, normal, bold, black)

Style: distinct design variations within a typeface family (*italic*, condensed, etc.)

Typefaces

A typeface (AKA font family) is a collection of fonts (composed of glyphs, which represent characters) that share common design features, including...

- » weight
- » style
- » width
- » slope or slant
- » optical size
- » stroke
- » designer or foundry

Proxima Nova Thin & *Italic*

Proxima Nova Light & *Italic*

Proxima Nova Regular & *Italic*

Proxima Nova Medium & *Italic*

Proxima Nova Semibold & *Italic*

Proxima Nova Bold & *Italic*


Proxima Nova Extrabold & *Italic*

Proxima Nova Black & *Italic*



All fonts ▼

GO

sign in ▼ 
0 items, \$0.00

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WhatTheFont ▼

Georgia Pro

by [Ascender](#)

20 fonts: \$560.00



Album ▼

Buying choices

[buying choices](#) from \$40.00

Overview

Webfont

Gallery

Buying choices

Licensing

Alternate cuts

About this font family

Originally designed in 1996 by Matthew Carter and hand-tuned for the screen by Tom Rickner. The Georgia typeface family received a major update in 2010 by Monotype, The Font Bureau and Matthew Carter. [More...](#)

See a typo? [Edit the description!](#)

Designers: [Matthew Carter](#), [Steve Matteson](#)

Design date: 2010

Publisher: [Ascender](#)

Design owner: [Font Bureau](#)

MyFonts debut: May 7, 2012

Pangrams



Enter your own text

A  A

☐ fit to width



ff ▼



[Georgia Pro Light](#)

\$40.00



Album ▼

Buying choices

More fonts like this



[view all 273 fonts](#)

Tags

public tags

[capital sharp s](#)
[versal eszett](#)

your public tags
(none)

your private tags
(none)



Tag it

When we go back to Ju

Georgia Pro Light

\$40.00



Album ▼

Buying choices

When we go back to Ju

Georgia Pro Light Italic

\$40.00



Album ▼

Buying choices

Turgid saxophones ble

Georgia Pro

\$40.00



Album ▼

Buying choices

Mix Zapf with Veljovic

Georgia Pro Italic

\$40.00



Album ▼

Buying choices

Jaded zombies acted

Georgia Pro SemiBold

\$40.00



Album ▼

Buying choices

Suez sailor vomits ja

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Georgia Pro SemiBold Italic

\$40.00



Album ▼

Buying choices

Queen Elizabeth's pr

Georgia Pro Bold

\$40.00



Album ▼

Buying choices

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\$40.00



Album ▼

Buying choices

Was there a quoru

Georgia Pro Black

\$40.00



Album ▼

Buying choices

Alfredo just must

Georgia Pro Black Italic

\$40.00



Album ▼

Buying choices

Would you please

Georgia Pro Condensed Light

\$40.00



Album ▼

Buying choices

Murky haze enveloped a c

Georgia Pro Condensed Light Italic

\$40.00



Album ▼

Buying choices

Astronaut Quincy B. Zac

Georgia Pro Condensed

\$40.00



Album ▼

Buying choices

Fred specialized in the j

Georgia Pro Condensed Italic

\$40.00



Album ▼

Buying choices

A large fawn jumped qu

Georgia Pro Condensed SemiBold

\$40.00



Album ▼

Buying choices

Jeb quickly drove a few

Georgia Pro Condensed SemiBold Italic

\$40.00



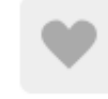
Album ▼

Buying choices

The quick brown fox j

Georgia Pro Condensed Bold

\$40.00



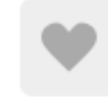
Album ▼

Buying choices

Five big quacking zep

Georgia Pro Condensed Bold Italic

\$40.00



Album ▼

Buying choices

Blowzy red vixens fi

Georgia Pro Condensed Black

\$40.00



Album ▼

Buying choices

Jail zesty vixen who

Georgia Pro Condensed Black Italic

\$40.00



Album ▼

Buying choices

Sexy diva Jennifer

Types

Serif, from Dutch *schreef*

Sans-serif aka *grotesque*

Monospace/Monospace

Most basic types of fonts

Serif font

AaBbCc

Serifs in red

AaBbCc

Sans-serif font

AaBbCc

Monospaced typefaces can be either serif (`01amT`) or sans-serif (`01amT`)

Often needed for presenting columns of numbers

Remember, `<pre>` uses a monospaced typeface by default (& is perfect for presenting columns of numbers)

There are many ways to characterize typefaces

Sentence

Type something

40px



Categories

Language

Font properties

☐ Show only variable fonts

☐ Show only color fonts

- ☒ Serif
- ☒ Sans Serif
- ☒ Display
- ☒ Handwriting
- ☒ Monospace

Reset

About these results

Sort by: Trending



12 styles

s recognition of the
inherent dignity

Reem Kufi Fun

Khaled Hosny, Santiago Orozco

Variable

لما كان الاعتراف بالكرامة المتأصلة
في جميع

Reem Kufi Ink

Khaled Hosny

1 style

Bungee Spice

David Jonathan Ross

1 style

▼ CLASSIFICATION

M

Sans Serif

M

Serif

M

Slab Serif

M

Script

M

Mono

M

Hand

Adobe Fonts

▼ TAGS

Calligraphic

Clean

Brush Pen

Geometric

Funky

ART DECO

Friendly

Rounded

Cursive

Luxury

Rough

Fun

Futuristic

Marker

Comic

Western

Blackletter

Wedding

School

College

Typewriter

SHADED

STENCIL

INLINE

HORROR

Ornaments

Adobe Fonts

Serif (Minion Pro)

- Old Style (Adobe Jenson Pro)
- Transitional (ITC New Baskerville)
- Modern (Bodoni)

Slab Serif (Clarendon)

Sans serif (Myriad)

Script (Coronet)

Blackletter (Teutonic No. 1)

DISPLAY (LiquidCrystal)

Monospaced (Courier)

❖❖■❖⊗❖▼
(Dingbat) (ITC Zapf Dingbats)

Wikipedia

More from Wikipedia:

Serif (Old Style, Transitional, Didone, & Slab serif) & Sans-serif • Blackletter • Gaelic • Monospaced (usually sans-serif or slab serif) • CJK/Chinese, Japanese, & Korean (Mincho, Gothic, & Maru) • Display (Script, Ethnic, Reverse-contrast, Effect, & Small print) • Ornamental • Symbol/dingbat • Emoji • Music

Measure

Measure

Length of a line of text

Measure should be pleasing to the eye & facilitate reading

Too short!

I developed a queer fear of seeing my
own form, as if my eyes would find it
something utterly alien and
inconceivably abhorrent.

I developed a queer fear of seeing my
own form, as if my eyes would find it
something utterly alien and
inconceivably abhorrent.



Why justifying text is
usually a very bad idea

Too long!

They did not call the condition true insanity, but classed it rather among neurotic disorders. My course in trying to track down and analyze it, instead of vainly seeking to dismiss or forget it, they heartily endorsed as correct according to the best psychological principles. I especially valued the advice of such physicians as had studied me during my possession by the other personality.

Ahhhh!

They did not call the condition true insanity, but classed it rather among neurotic disorders. My course in trying to track down and analyze it, instead of vainly seeking to dismiss or forget it, they heartily endorsed as correct according to the best psychological principles. I especially valued the advice of such physicians as had studied me during my possession by the other personality.

Shoot for between 40-80 characters, including spaces

~ 65 characters is ideal

This becomes more difficult with Responsive Web Design

Leading

Leading

Space between lines of type

Very important for readability

The longer the measure, the *more* leading is needed

The larger the font, the *less* leading is needed

Too small!

Leading of 0.9

There was, too, a feeling of profound and inexplicable horror concerning myself. I developed a queer fear of seeing my own form, as if my eyes would find it something utterly alien and inconceivably abhorrent.

Too much!

Leading of 1.7

There was, too, a feeling of profound and inexplicable horror concerning myself. I developed a queer fear of seeing my own form, as if my eyes would find it something utterly alien and inconceivably abhorrent.

Ahhhh!

Leading of 1.2

There was, too, a feeling of profound and inexplicable horror concerning myself. I developed a queer fear of seeing my own form, as if my eyes would find it something utterly alien and inconceivably abhorrent.

`line-height` CSS property sets leading

Default is `line-height: normal`

“Tells user agents to set the used value to a ‘reasonable’ value based on the font of the element. ... We recommend a used value for `normal` between 1.0 to 1.2.”
—W3C

“Desktop browsers (including Firefox) use a default value of roughly 1.2, depending on the element’s font-family.”
—Mozilla Developer Network

Rough rule of thumb: using the `line-height` property, set leading between 1.3 to 1.5 times your font size

```
line-height: 1.4;
```

No units after the value!

```
* {  
  font-family: Helvetica, sans-serif;  
  font-size: 1em;  
  line-height: 1.3;  
}
```

Same as:

```
* {  
  font: 1em/1.3 Helvetica, sans-serif;  
}
```


Scale

Do not size text arbitrarily

Use a scale for your fonts

6 7 8 9 10 11 12 14

16 18 21 24 36 48 60 72

The Classical Scale, developed in the 16th century

8 13 21 34 55 89

Fibonacci sequence scale

Base Size

16

px = 1em

Scale

1.333 — Perfect Fourth

Preview Text

A Visual Type Scale

Google Fonts

[Find a Font](#)

Libre+Baskerville

Font Family

'Libre Baskerville', serif

Weight

400

Permalink

<http://type-scale.com/?size=16&scale=1.333&text=A Visual>

3.157em

A Visual Type Scale

2.369em

A Visual Type Scale

1.777em

A Visual Type Scale

1.333em

A Visual Type Scale

1em

A Visual Type Scale

0.75em

A Visual Type Scale

0.563em

A Visual Type Scale

0.422em

A Visual Type Scale

▼ Grab the CSS

Edit on CodePen

▼ More



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Base Size

16

px = 1em

Scale

1.200 — Minor Third

Preview Text

A Visual Type Scale

Google Fonts

[Find a Font](#)

Libre+Baskerville

Font Family

'Libre Baskerville', serif

Weight

400

Permalink

<http://type-scale.com/?size=16&scale=1.200&text=A Visual>

2.074em

A Visual Type Scale

1.728em

A Visual Type Scale

1.44em

A Visual Type Scale

1.2em

A Visual Type Scale

1em

A Visual Type Scale

0.833em

A Visual Type Scale

0.694em

A Visual Type Scale

0.579em

A Visual Type Scale

▼ Grab the CSS

Edit on CodePen

▼ More



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A type tool by [Jeremy Church](#)

Base Size

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px = 1em

Scale

1.200 — Minor Third

Preview Text

A Visual Type Scale

Google Fonts

[Find a Font](#)

Libre+Baskerville

Font Family

'Libre Baskerville', serif

Weight

400

Permalink

<http://type-scale.com/?size=16&scale=1.200&text=A Visual>

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A Visual Type Scale

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A Visual Type Scale

0.833em

A Visual Type Scale

0.694em

A Visual Type Scale

0.579em

A Visual Type Scale

✕ Grab the CSS

Edit on CodePen

```
html {font-size: 1em;}
```

```
body {  
  background-color: white;  
  font-family: 'Libre Baskerville', serif;  
  font-weight: 400;  
  line-height: 1.45;  
  color: #333;  
}
```

```
p {margin-bottom: 1.3em;}
```

The W3C provides a standard scale that is very usable & sane

<code><absolute-size></code>	Scaling Factor	Percent	HTML <code>h_x</code>
------------------------------------	----------------	---------	---------------------------------

<code>xx-large</code>	2/1	200%	<code><h1></code>
-----------------------	-----	------	-------------------------

<code>x-large</code>	3/2	150%	<code><h2></code>
----------------------	-----	------	-------------------------

<code>large</code>	6/5	120%	<code><h3></code>
--------------------	-----	------	-------------------------

<code>medium</code>	1	100%	<code><h4></code> (& <code><p></code>)
---------------------	---	------	---

<code>small</code>	8/9	89%	<code><h5></code>
--------------------	-----	-----	-------------------------

<code>x-small</code>	3/4		
----------------------	-----	--	--

<code>xx-small</code>	3/5	60%	<code><h6></code>
-----------------------	-----	-----	-------------------------

```
body {font: 1em/1.3 "Lucida Grande";}
h1, h2, h3, h4, h5, h6 {font-family: Georgia;}
h1 {font-size: 200%;}
h2 {font-size: 150%;}
h3 {font-size: 120%;}
h4 {font-size: 100%;}
h5 {font-size: 89%;}
h6 {font-size: 60%;}
```


Heading Level 1 Lorem Ipsum

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

Heading Level 2 Lorem Ipsum

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

Heading Level 3 Lorem Ipsum

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Heading Level 4 Lorem Ipsum

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

Heading Level 5 Lorem Ipsum

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Heading Level 6 Lorem Ipsum

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

Terminology

Sphinx



Baseline

Sphinx



The diagram illustrates the vertical alignment of the word 'Sphinx' on a black background. Two horizontal orange lines are positioned below the text. The top line, labeled 'Baseline', aligns with the bottom of the lowercase letters 'p', 'h', 'i', and 'n'. The bottom line, labeled 'Descender Height', aligns with the bottom of the lowercase letter 'x'. The letter 'S' is positioned above the baseline, and the letter 'x' is positioned between the baseline and the descender height line.

Baseline

Descender Height

Sphinx

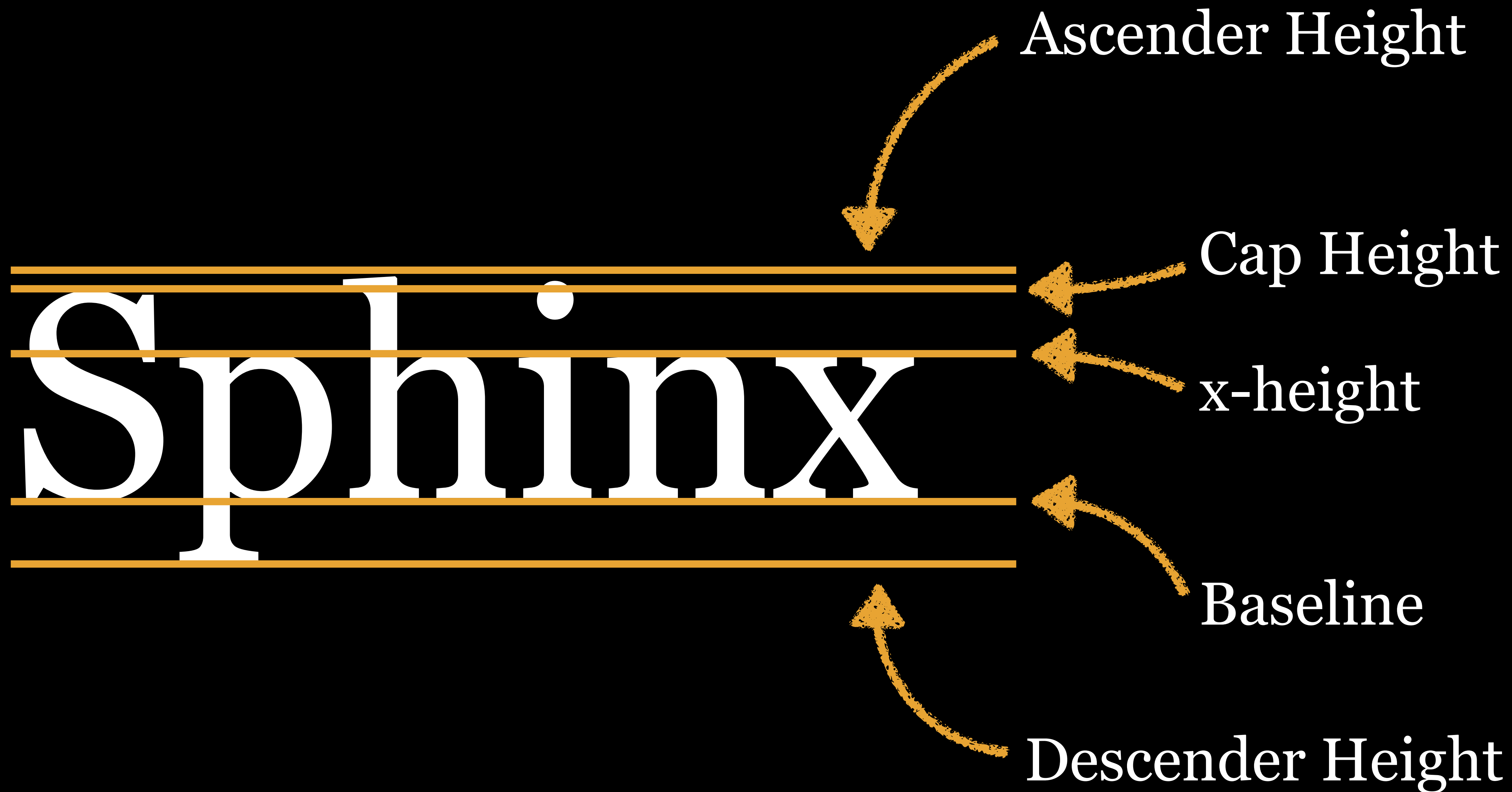
The diagram shows the word 'Sphinx' in a white serif font on a black background. Three horizontal orange lines are drawn across the text: the top line is at the height of the 'x', the middle line is at the height of the lowercase 'p', and the bottom line is at the baseline. Three orange arrows point from text labels to these lines: 'x-height' points to the top line, 'Baseline' points to the middle line, and 'Descender Height' points to the bottom line.

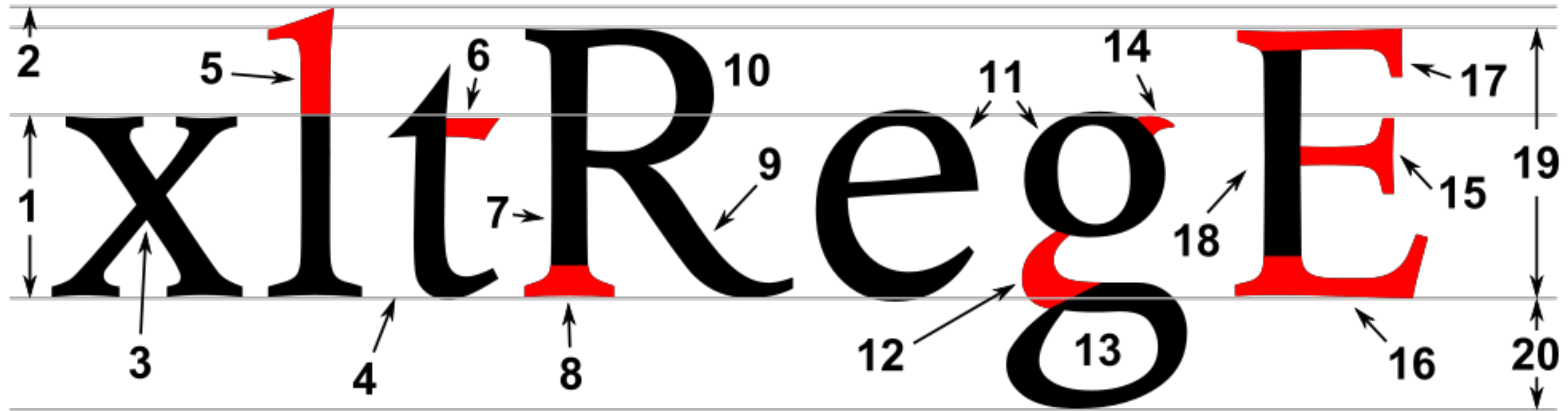
x-height

Baseline

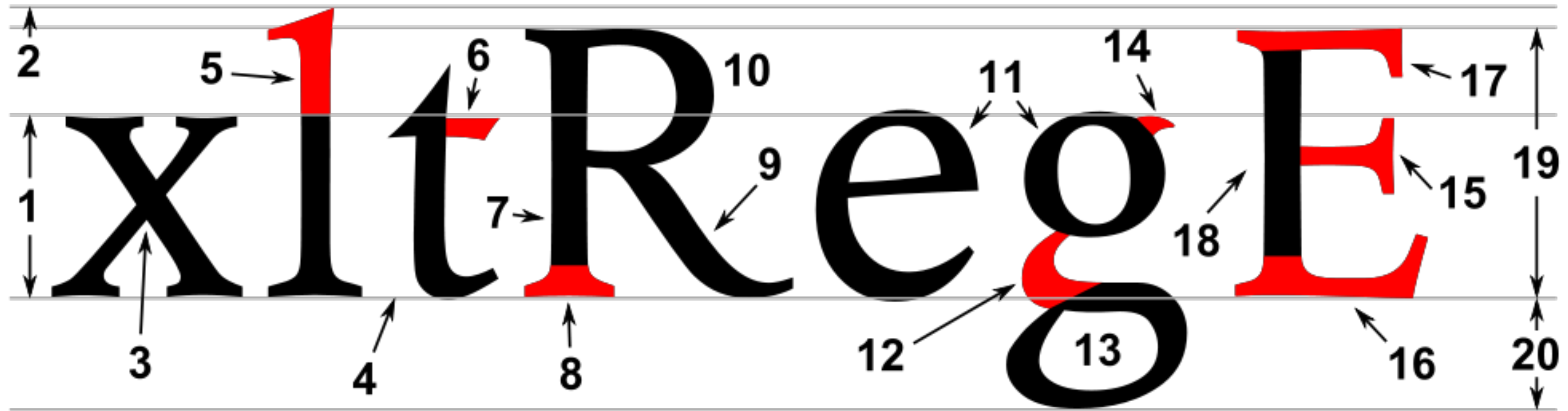
Descender Height







- | | |
|-----------------|-------------------|
| 1 x-height | 11 counter |
| 2 ascender line | 12 collar |
| 3 apex | 13 loop |
| 4 baseline | 14 ear |
| 5 ascender | 15 tie |
| 6 crossbar | 16 horizontal bar |
| 7 stem | 17 arm |
| 8 serif | 18 vertical bar |
| 9 leg | 19 cap height |
| 10 bowl | 20 descender line |



- | | |
|-----------------|-------------------|
| 1 x-height | 11 counter |
| 2 ascender line | 12 collar |
| 3 apex | 13 loop |
| 4 baseline | 14 ear |
| 5 ascender | 15 tie |
| 6 crossbar | 16 horizontal bar |
| 7 stem | 17 arm |
| 8 serif | 18 vertical bar |
| 9 leg | 19 cap height |
| 10 bowl | 20 descender line |

g b 8

g b 8

Counter: area of a letter or number that is entirely (*closed*, like a lake) or partially (*open*, like a bay) enclosed

g b 8

g b 8

Counter: area of a letter or number that is entirely (*closed*) or partially (*open*) enclosed

Bowl: curved stroke that creates a counter (bottom bowl of **g** is aka a *loop*)

g b 8

g b 8

Counter: area of a letter or number that is entirely (*closed*) or partially (*open*) enclosed

Bowl: curved stroke that creates a counter (bottom bowl of **g** is a *loop*)

Aperture: opening between an open counter & the outside of the letter

Closed counters

A B D O P Q R a b d e g o p q
A B D O P Q R a b d e g o p q
0 4 6 8 9 • 0 6 8 9

Open counters

C G S a c h m n s u v w x y z
C G S a c g h m n s u v w y z
2 3 5 6 9 • 4 • 2 3 4 5 6 9

g	single-story g	1 closed counter & 1 open counter (& therefore 1 aperture)
g	double-story g	2 closed counters

The lowercase g is interesting!

Common Fonts & Defaults

Microsoft's Core Fonts for the Web

Provided by Microsoft royalty-free 1996–2002

Still legally available all over the Web & on all Macs

Sans-serif fonts

Arial

Aa Ee Rr *a*
Aa Ee Rr

Deliverable

abcdefghijklm
nopqrstuvwxyz
0123456789

Verdana

Aa Ee Rr *a*
Aa Ee Rr

Sylvestris

abcdefghijklm
nopqrstuvwxyz
0123456789

Trebuchet

Aa Qq Rr *a*
Aa Qq Rr

Portmanteau

abcdefghijklm
nopqrstuvwxyz
0123456789

Arial

Aa Ee Rr

Aa Ee Rr

a

Deliverable

abcdefghijklm

nopqrstuvwxyz

0123456789

“Arial is just an ugly bastard son of Helvetica.” —King Sidharth

“I try to keep the litmus tests to a minimum, but this must be one: you cannot create good typography with Arial.” —Matthew Butterick, typographer & author of *Butterick's Practical Typography*

Helvetica was designed for traditional print originally

Arial was designed for laser printers & computer screens

“Helvetica is a sharper, crisper design with more stylish details and a slightly more rectangular (or, less rounded) appearance. ... Arial is the more rounded of the two designs, with softer, fuller curves, and more open counters. It has an overall less elegant, blander appearance that reproduces well in lower resolutions environments.” —Ilene Strizver

Helvetica: G R Q at

Arial: G R Q at

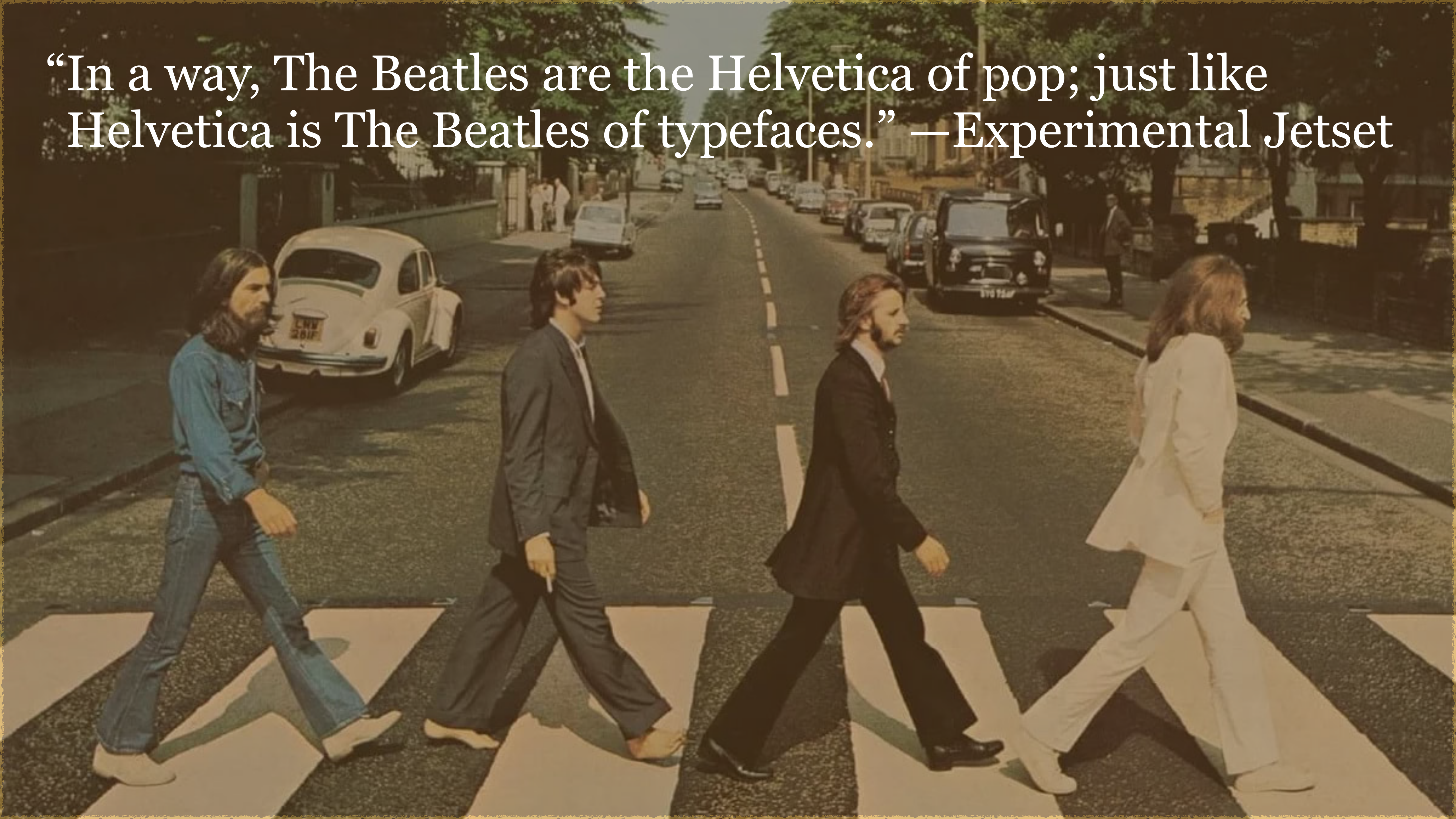
Helvetica: Cefrgi

Arial: Cefrgi

Helvetica: 1 2 3 & %

Arial: 1 2 3 & %

“In a way, The Beatles are the Helvetica of pop; just like Helvetica is The Beatles of typefaces.” —Experimental Jetset



Verdana

Aa Ee Rr

Aa Ee Rr

a

Sylvestris

abcdefghijklm

nopqrstuvwxyz

0123456789

Verdana designed in 1993
by Matthew Carter as sans-
serif companion to serif
Georgia

Intended to be pleasing,
clear, & legible even at
small sizes

Trebuchet

Aa Qq Rr

Aa Qq Rr

a

Portmanteau

abcdefghijklm
nopqrstuvwxyz
0123456789

A trebuchet is a type of medieval catapult

Trebuchet was the font's name because it “launches words across the Internet”

Interesting glyphs:

A Q e g i j l \$! &

Serif fonts

Times New Roman

Aa Ee Rr *a*

Aa Ee Rr

Publisher

abcdefghijklm
nopqrstuvwxyz
0123456789

Georgia

Aa Qq Rr *a*

Aa Qq Rr

Bobwhite

abcdefghijklm
nopqrstuvwxyz
0123456789

Times New Roman

Aa Ee Rr a

Aa Ee Rr a

Publisher

abcdefghijklm

nopqrstuvwxyz

0123456789

“When Times New Roman appears in a book, document, or advertisement, it connotes apathy. It says, ‘I submitted to the font of least resistance.’ Times New Roman is not a font choice so much as the absence of a font choice, like the blackness of deep space is not a color. To look at Times New Roman is to gaze into the void.” —Matthew Butterick

The New York Times changed its standard typeface
from Times New Roman to Georgia in 2007

Georgia

Aa Qq Rr

Aa Qq Rr

a

Bobwhite

abcdefghijklm

nopqrstuvwxyz

0123456789

Georgia designed in 1993 by Matthew Carter as serif companion to sans-serif Verdana, with name referring to a tabloid headline: “Alien heads found in Georgia”

Georgia is intended to be elegant but legible when printed at small sizes or on low-resolution monitors by using large x-heights, fewer fine details, & thicker thin strokes

Bold is very bold, almost black

Georgia Pro released in 2013 & includes:

- » Additional weights, including condensed
- » Specialized small caps
- » Extensions to character sets
- » Extensions to kerning
- » Ligatures 🎉🥳
- » Lining figures

That's the typeface I use in all my presentations

Monospace

Andalé Mono

Aa Ee Qq
Rr Tt Zz a

Calibrate

abcdefghijklm
nopqrstuvwxyz
0123456789

Courier New

Aa Ee Qq
Aa Ee Qq

a

Think.

abcdefghijklm
nopqrstuvwxyz
0123456789

Courier New

Aa Ee Qq

Aa Ee Qq

a

Think.

abcdefghijklm

nopqrstuvwxyz

0123456789

“The golden age of monospaced fonts was probably the 1950s, when IBM led the typewriter industry and released a series of great monospaced designs. One of these was Courier, designed by Howard Kettler. But the system font Courier New is a beastly imitation of the original: spindly, lumpy, and just plain ugly.”
—Matthew Butterick

ABCDEFGHabcdefgh012345: Courier 

ABCDEFGHabcdefgh012345: Courier New 

Impact

Aa Gg Xx YELL!
(16½")

Am **lautesten**

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

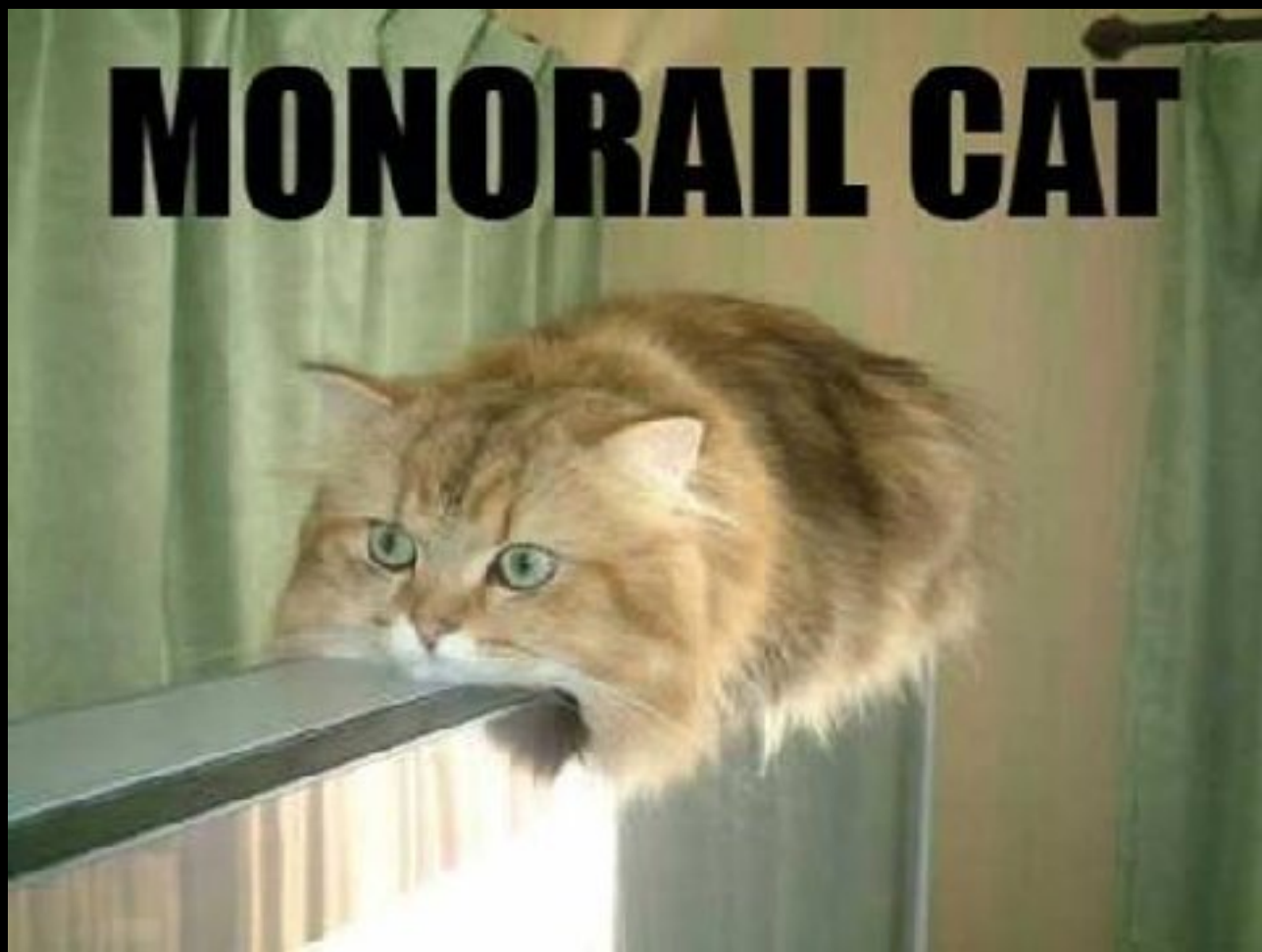
[0123456789]

A condensed, bold, “industrial” sans-serif font that dates back to Geoffrey Lee’s original design in 1965

Used widely in memes



DO NOT WANT.



MONORAIL CAT



INVASION KITTIES

ACCEPT YOUR OFFERING



INVISIBLE BIKE

LOLCats



I IZ NOT IN TEH HOLIDAY SPIRIK



**WE HAZA
BIZNESS PLAN**

Comic Sans

Aa Bb Cc

Aa Bb Cc

a

Kidz Korner

abcdefghijklm

nopqrstuvwxyz


0123456789

Still included in Windows

Never use Comic Sans



DAVID KADAVY IS AUTHOR OF THE #18 AMAZON BEST-SELLER,
DESIGN FOR HACKERS

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Why You Hate Comic Sans

JANUARY 25 2011 - 10:00AM

Everyone loves to hate Comic Sans. The child-like handwriting font is so infamous, there is a movement to try to ban it. Mention its name to the common layman (aside from a preschool teacher), and you will likely get a chuckle, mention it to a trained designer, and you'll get a look of disgust. But what exactly makes Comic Sans so horrible?

“childish and inappropriate ... for most purposes”

“much-maligned” ... “much-mocked and widely-reviled”

“the favored font of middle-school breakup letters everywhere”

“analogous to showing up for a black tie event in a clown costume”

“...probably the worst font ever to grace the computer screen.
Normally a staple among six year old[s] and grandmothers”

“oh-so-mockable ... Unless you’re a fourth-grader, or being ironic,
or the author of a comic book, or on vacation from the 1990s,
never use that typeface.”



Just imagine!



Real, yet inappropriate or wrong, uses of Comic Sans

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Don Green

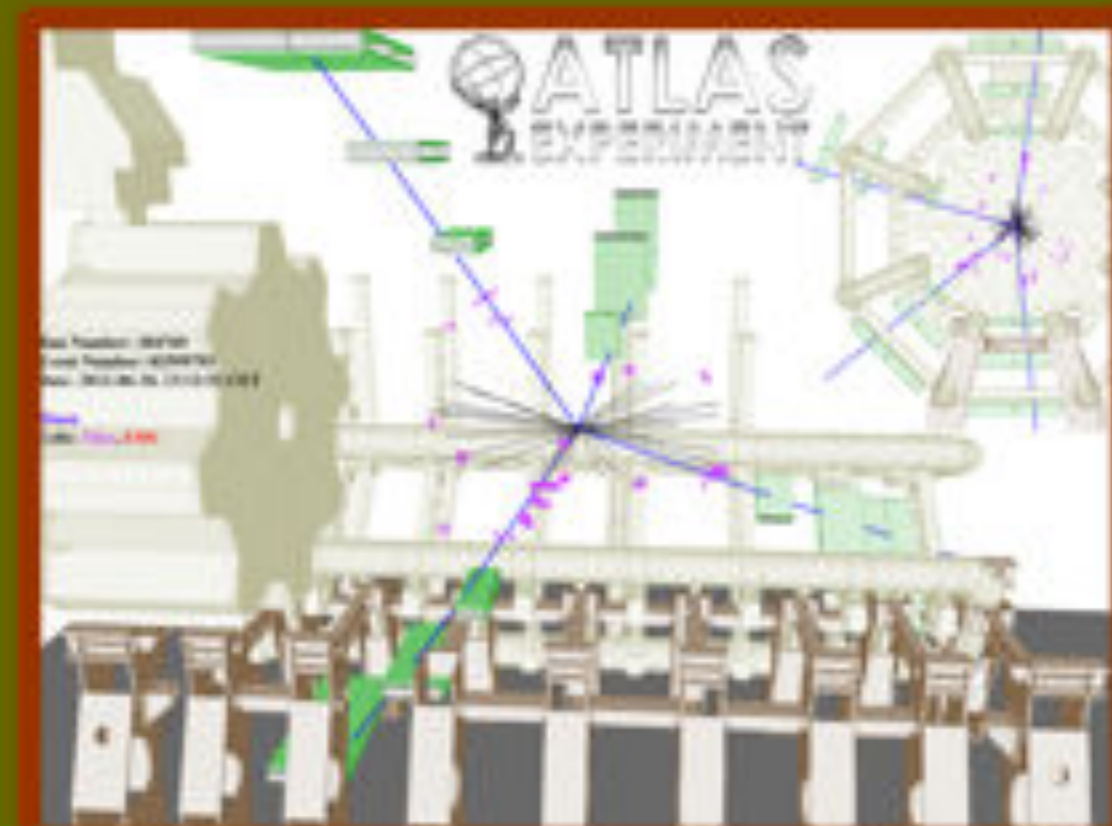
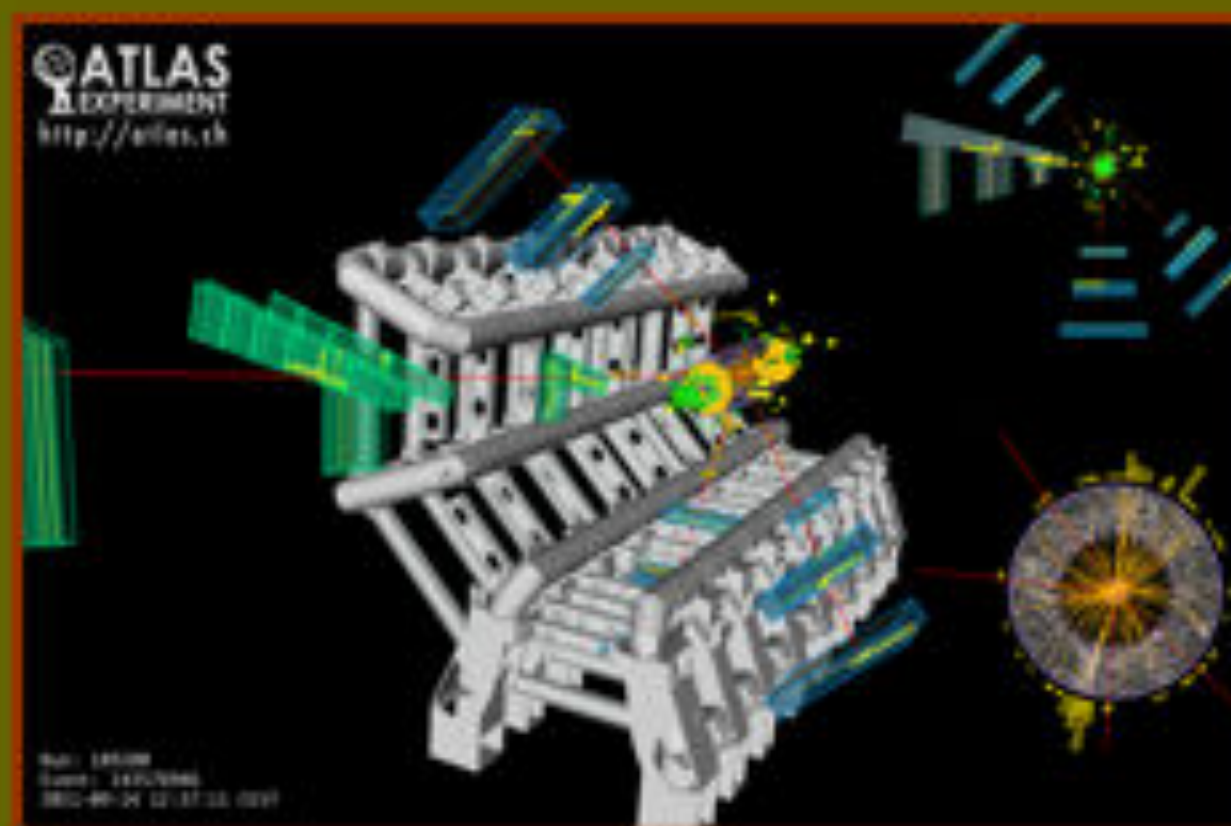
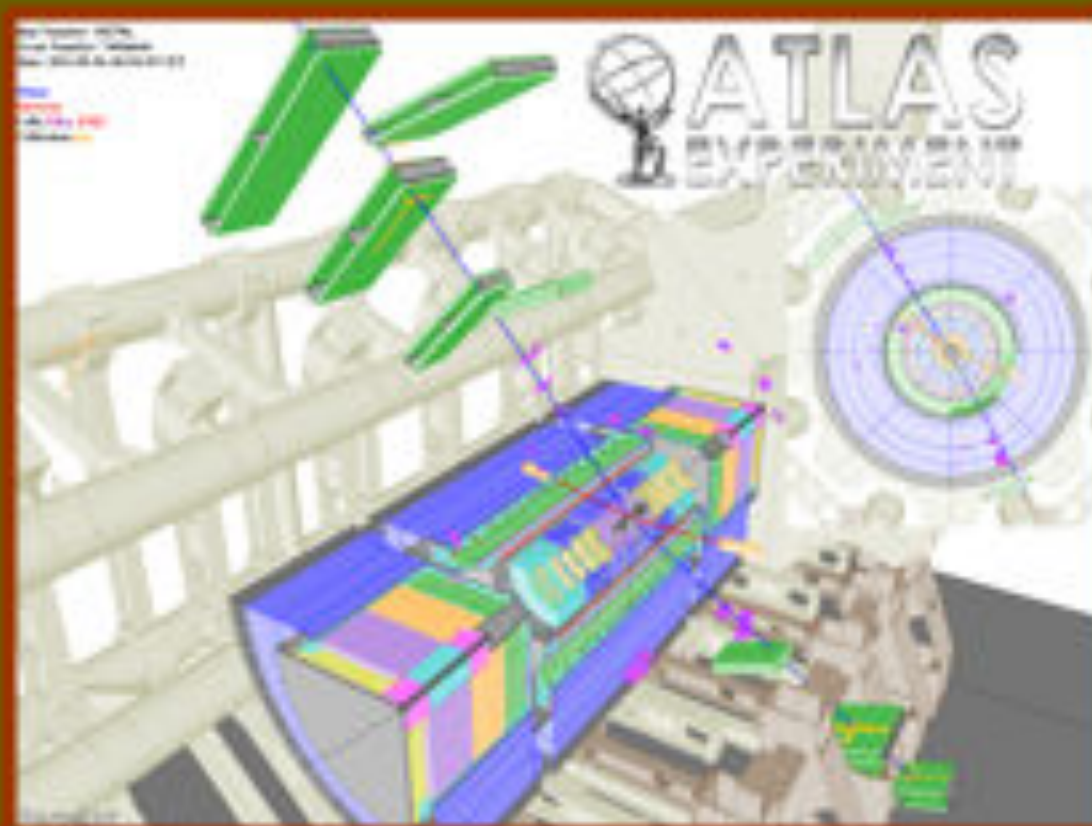
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Annette Hill Green

ANTIQUES ★

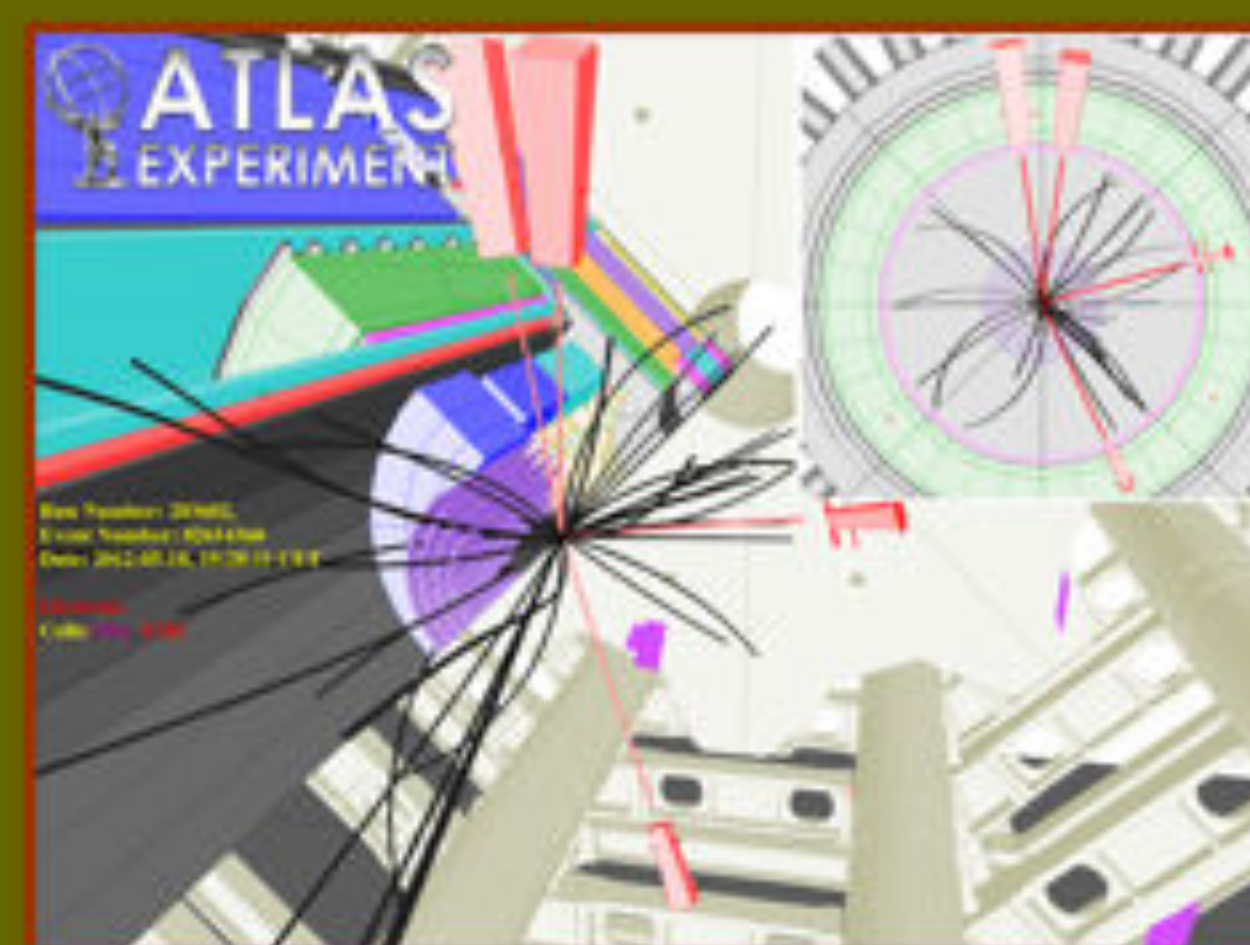
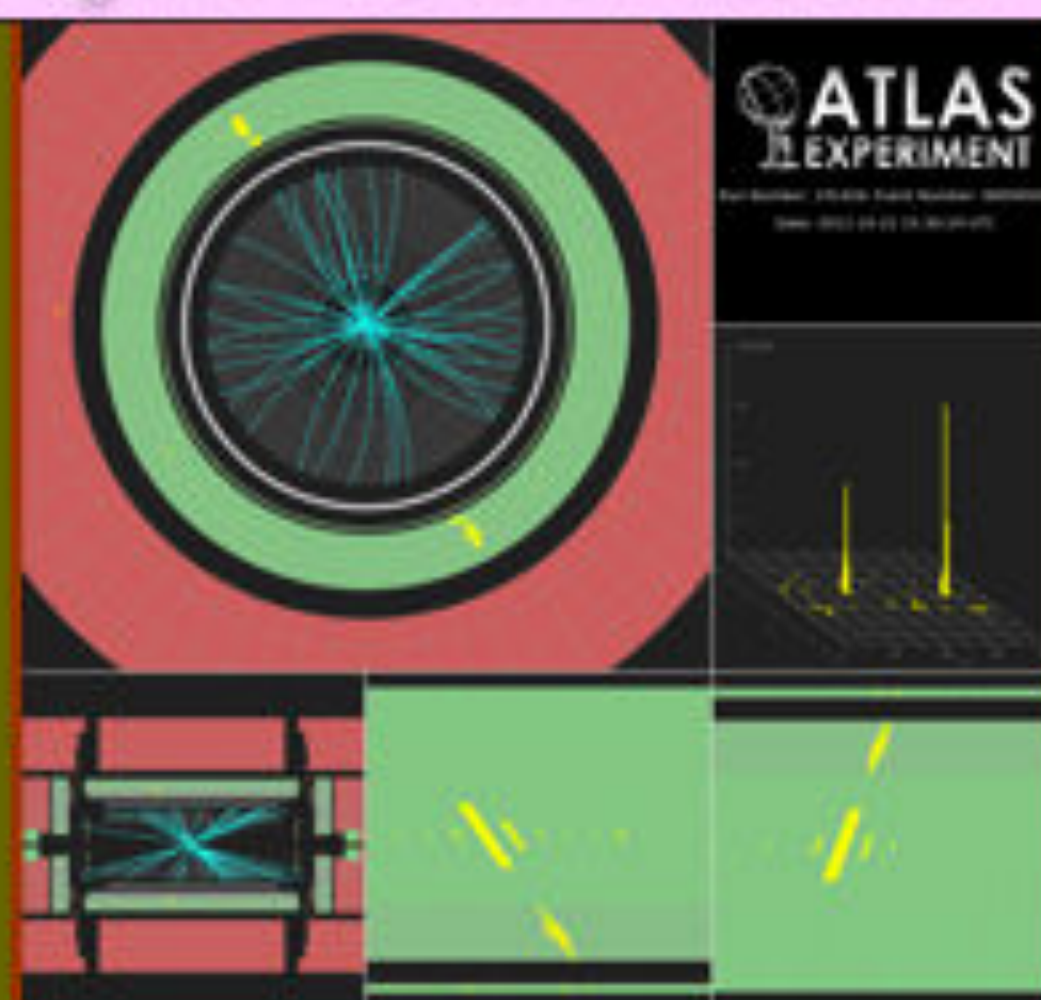
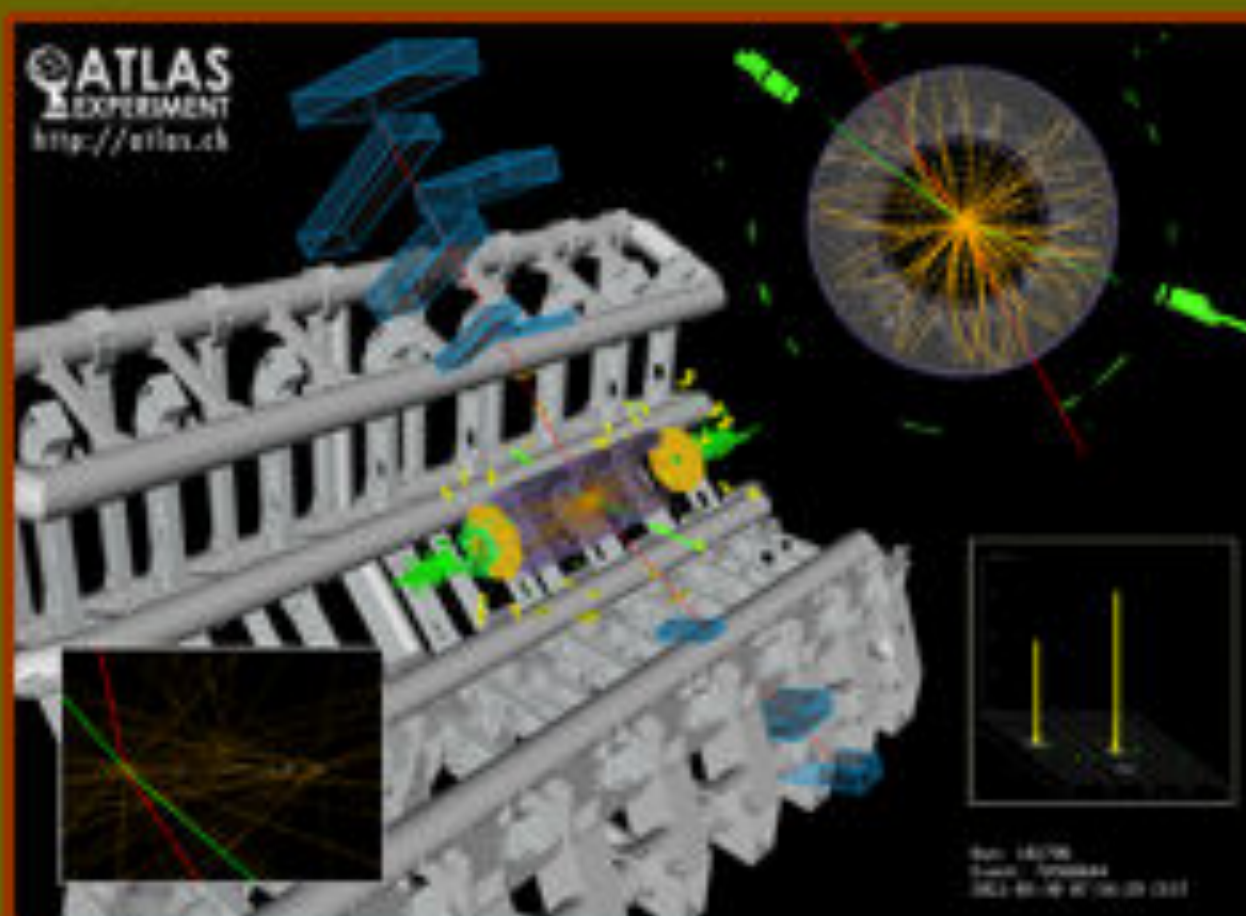
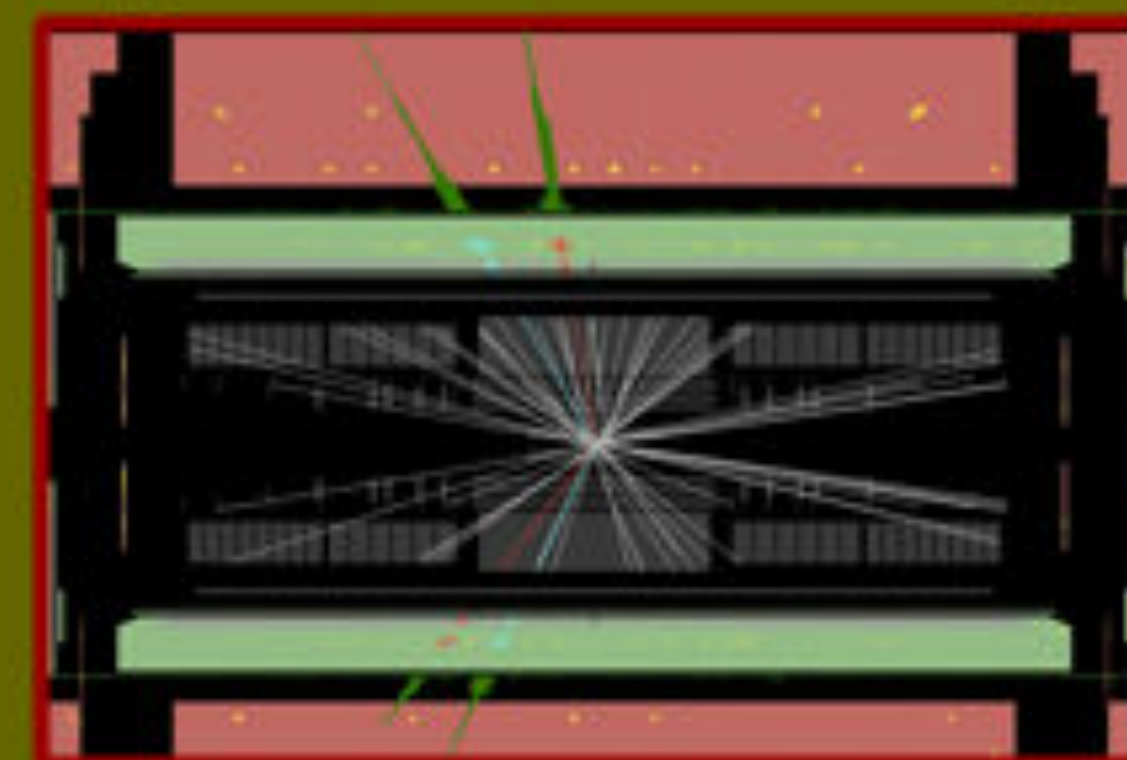




Status of Standard Model Higgs searches in ATLAS

Using the full datasets recorded in 2011 at $\sqrt{s}=7$ TeV and 2012 at $\sqrt{s}=8$ TeV: up to 10.7 fb^{-1}

Fabiola Gianotti (CERN), representing the ATLAS Collaboration



$$H \rightarrow \gamma\gamma$$

$$110 \leq m_H \leq 150 \text{ GeV}$$

$$\sigma \times \text{BR} \sim 50 \text{ fb } m_H \sim 126 \text{ GeV}$$

- Simple topology: two high- p_T isolated photons
 $E_T(\gamma_1, \gamma_2) > 40, 30 \text{ GeV}$
- Main background: $\gamma\gamma$ continuum (irreducible, smooth, ..)

To increase sensitivity, events divided in 10 categories based on γ rapidity, converted/unconverted γ ; $p_{T\perp}$ ($p_T^{\gamma\gamma}$ perpendicular to $\gamma\gamma$ thrust axis); 2jets

Main improvements in new analysis:

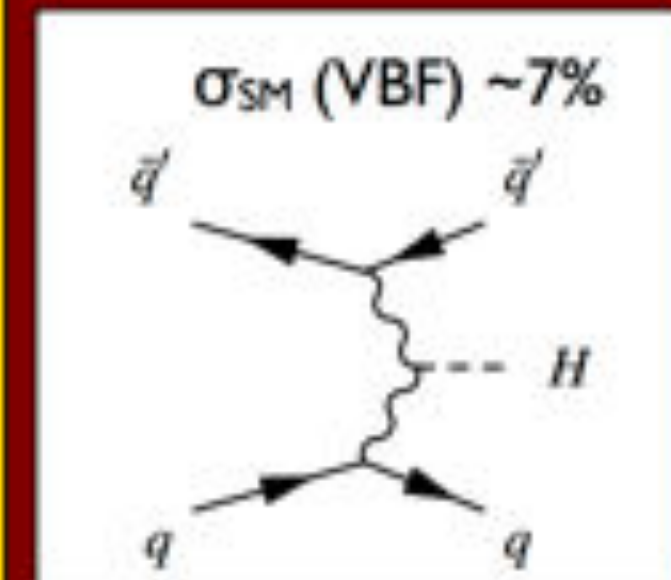
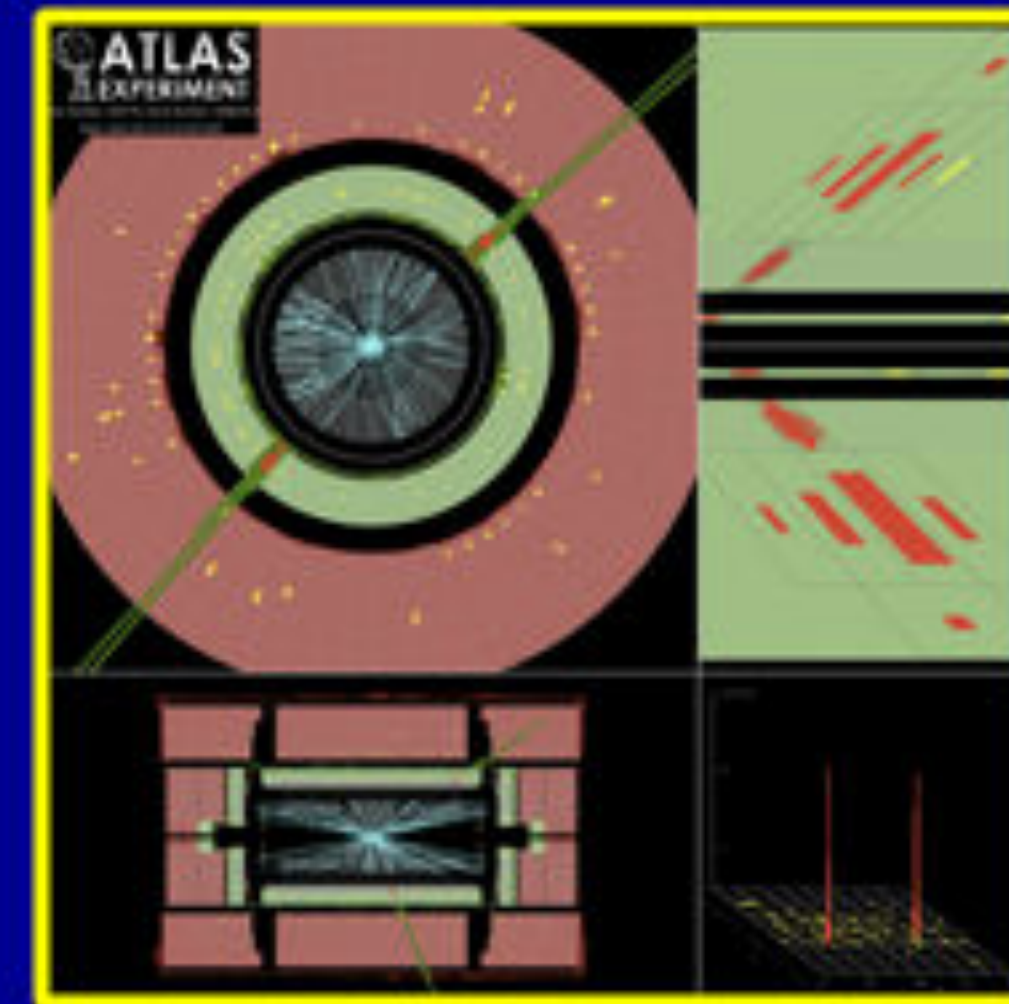
- 2jet category introduced \rightarrow targeting VBF process
- γ identification (NN used for 2011 data) and isolation
 \rightarrow Expected gain in sensitivity: + 15%

Background fit procedure also improved

After all selections, expect (10.7 fb^{-1} , $m_H \sim 126 \text{ GeV}$)
 ~ 170 signal events (total signal efficiency $\sim 40\%$)
 ~ 6340 background events in mass window
 \rightarrow S/B $\sim 3\%$ inclusive ($\sim 20\%$ 2jet category)

Crucial experimental aspects:

- excellent $\gamma\gamma$ mass resolution to observe narrow signal peak above irreducible background
- powerful γ identification to suppress γj and $j j$ background with jet $\rightarrow \pi^0 \rightarrow$ fake γ
(cross sections are 10^4 - 10^7 larger than $\gamma\gamma$ background)



2 jets with
 $p_T > 25-30 \text{ GeV}$
 $|\eta| < 4.5$
 $|\Delta\eta|_{jj} > 2.8$
 $M_{jj} > 400 \text{ GeV}$
 $|\Delta\phi|(\gamma\gamma-jj) > 2.6$

Expected gain in sensitivity: 5%

The next steps ...

ATLAS plans to submit a paper based on the data presented today at the end of July, at the same time as CMS and to the same journal

$H \rightarrow WW^{(*)} \rightarrow l\nu l\nu$ channel: plan is to include results in the July paper

$H \rightarrow \tau\tau, W/ZH \rightarrow W/Z b\bar{b}$: first results with 2012 data expected later in the Summer

MORE DATA will be essential to:

- ☐ Establish the observation in more channels, look at more exclusive topologies
- ☐ start to understand the nature and properties of the new particle

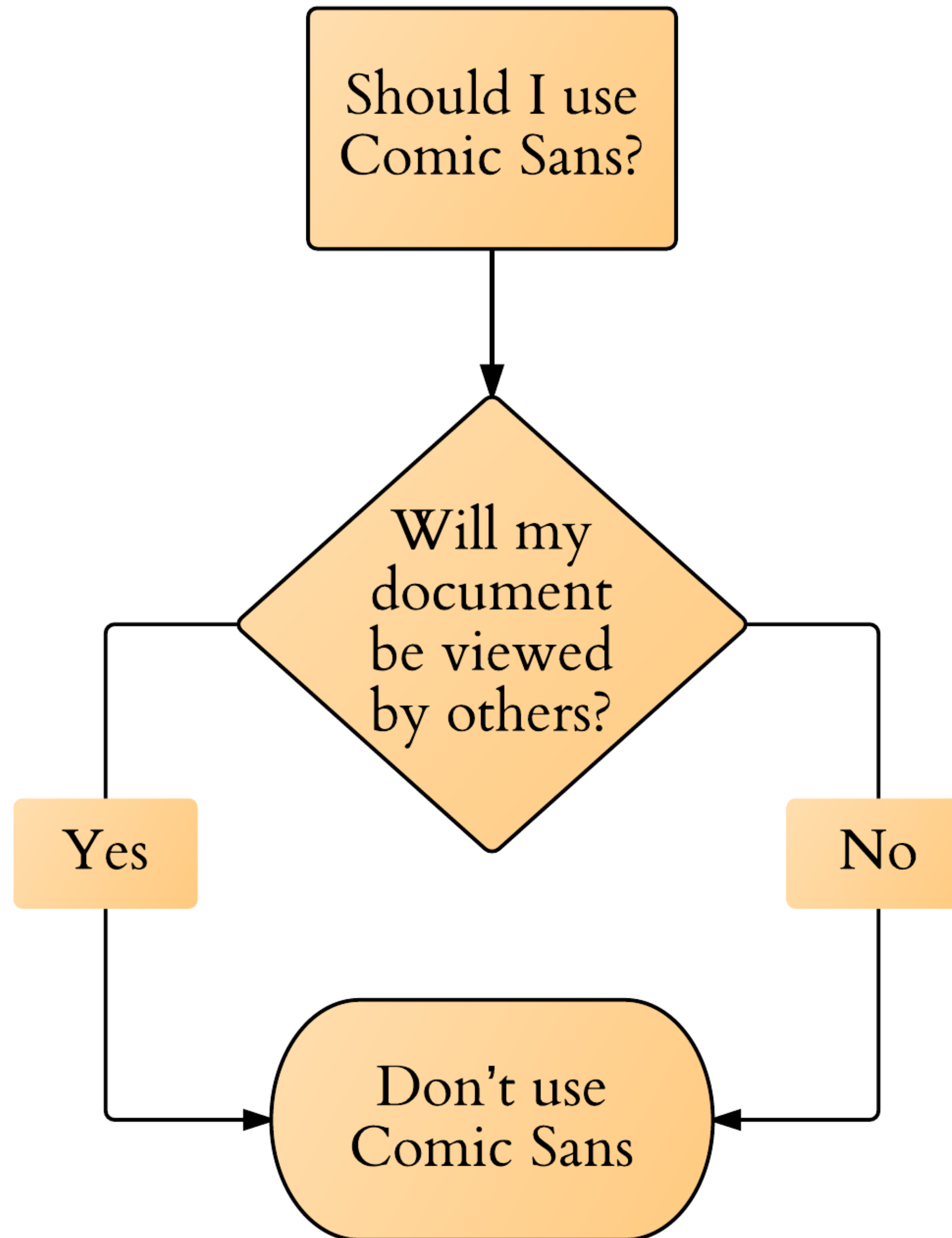
This is just the BEGINNING !

We are entering the era of "Higgs" measurements

First question: is the observed excess due to the production of a SM Higgs boson ?

Note:

- ☐ we have only recorded $\sim 1/3$ of the data expected in 2012
- ☐ the LHC and experiments have already accomplished a lot and much faster than expected



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Comic Sans Alternatives

It's the typeface that designers love to hate. Websites have been built to mock it and campaigns mounted to ban it. Unflinching, it continues to show its ungainly face on flyers, signs, and anything meant to be "fun" simply because it's the only casual font that comes with Windows. Here are some more professional ways ... [Read more »](#)

[A FontList](#)

Curated by
FontShop Staff

Filed in
[Alternatives to
Common Fonts](#)



36pt

[RESET](#)

AaBbCc Handgloves

FF Sanuk Black Italic by [FontFont](#)

MULTI | 1 font | \$55

[🛒 ADD](#)

AaBbCc Handgloves

Ciudadella Regular OT by [Emtype](#)

🍏 🍏 OT | 1 font | \$50

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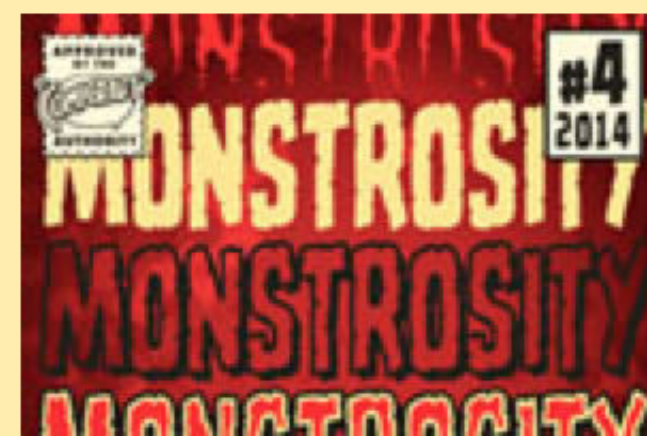
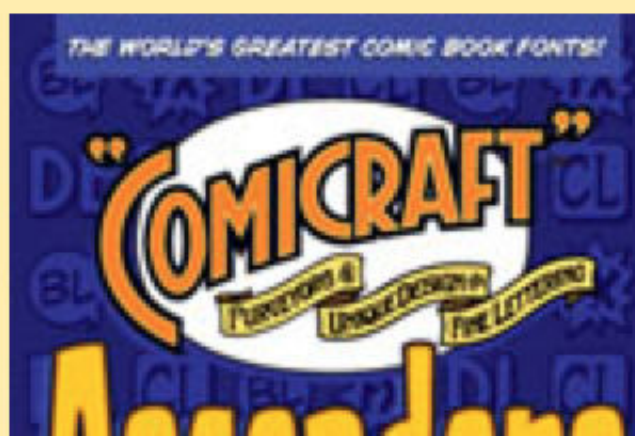
Keyword...

SEARCH

SINCE
1995

WORD BALLOON FONTS OTHER CATEGORIES STYLES ARTISTS SPECIAL OFFERS MORE

HEY, KIDS!



MOST POPULAR

Every one's a winner but some fonts get heavier leading than others... here are our top-selling, high kerning fonts this past month...

Sort By:

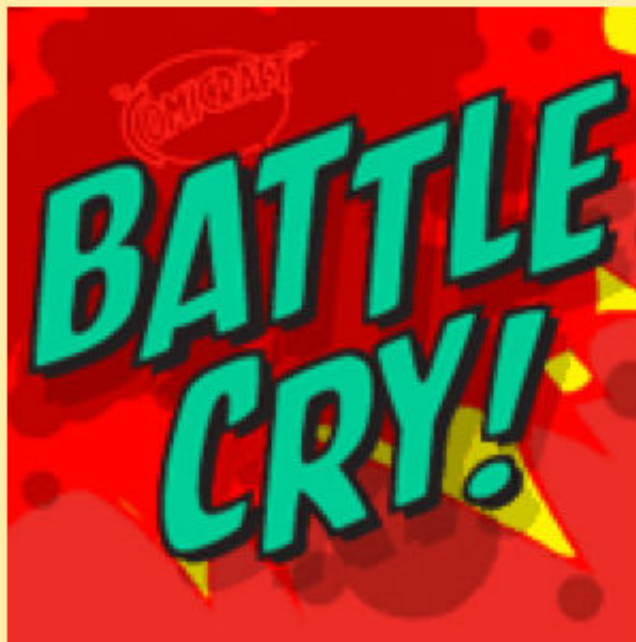
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20 per page

Page 1

of 1



☐ [Compare](#)

Battle Cry

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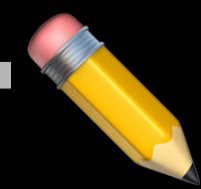


☐ [Compare](#)

Mild Mannered

Price: **\$129.00**

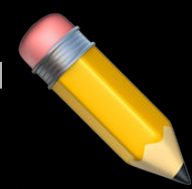




SIDE NOTE

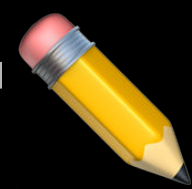
As of Windows 10, you can download & install good (or at least decent) full-featured font families for free

- » Arial Nova (12 weights & styles)
- » Georgia Pro (20!)
- » Gill Sans Nova (16)
- » Neue Haas Grotesk Text Pro (6)
- » Rockwell Nova (14)
- » Verdana Pro (20!)



SIDE NOTE

Look in the Microsoft Store for the fonts & install them
(links in the Notes)



SIDE NOTE

Or...

Start > Settings > Apps > Apps & features > Manage optional features

Select *Pan-European Supplemental Fonts*

Microsoft
ClearType
Font Collection

Introduced in 2007 with:

- » Windows Vista
- » Office 2007 for Windows
- » Office 2008 for macOS

Candara

Aa Ee Xx

Aa **Gg** Xx

N

Bildersturm

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

0 1 2 3 4 5 6 7 8 9

Candara

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

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

0 1 2 3 4 5 6 7 8 9

! @ # \$ % ^ & * () + - = ? /

< > ; : “ ” ’ |

Constantia

Aa Rr Gg a
Aa Rr Gg
Jezyk

abcdefghijklm
nopqrstuvwxyz
0123456789

Constantia

ABCDEFGHIJKLM
NOPQRSTUVWXYZ
abcdefghijklm
nopqrstuvwxyz
0123456789
!@#\$%^&*()+-=?/
<>;:“”|

Corbel

Aa Bb Cc

Aa Bb Cc

a

On-screen

abcdefghijklm
nopqrstuvwxyz
0123456789

Corbel

ABCDEFGHIJKLM

NOPQRSTUVWXYZ

abcdefghijklm

nopqrstuvwxyz

0123456789

!@#\$%^&*()+-=?/

<>;:“”’|

Calibri

Aa Ee Gg

Aa Ee Gg

a

Eiganes

abcdefghijklm

nopqrstuvwxyz

0 1 2 3 4 5 6 7 8 9

Calibri

ABCDEFGHIJKLM

NOPQRSTUVWXYZ

abcdefghijklm

nopqrstuvwxyz

0123456789

!@#\$%^&*()+-=?/

<>;:“””|

Calibri

Aa Ee Gg

Aa Ee Gg

a

Eiganes

abcdefghijklm

nopqrstuvwxyz

0 1 2 3 4 5 6 7 8 9

Default body typeface in
Word, Excel, PowerPoint, &
Outlook since Office 2007

Cambria

Aa Ee Rr

Aa Ee Rr

a

Doppelgänger

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

0 1 2 3 4 5 6 7 8 9

Cambria

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

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

0 1 2 3 4 5 6 7 8 9

! @ # \$ % ^ & * () + - = ? /

< > ; : " " " |

Cambria

Aa Ee Rr

Aa Ee Rr

a

Doppelgänger

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

0 1 2 3 4 5 6 7 8 9

Default heading typeface in
Word, Excel, PowerPoint, &
Outlook since Office 2007

Conso1as

Aa Kk Jj

Aa Kk Jj

Registration

abcdefghijklm

nopqrstuvwxyz

0123456789

a

Conso1as

ABCDEFGHIJKLM

NOPQRSTUVWXYZ

abcdefghijklm

nopqrstuvwxyz

0123456789

!@#\$%^&*()+-

=?/<>;:“”‘’|

Conso1as

Aa Kk Jj

Aa Kk Jj

a

Registration

abcdefghijklm

nopqrstuvwxyz

0123456789

Monospaced font
that's popular with
some developers

00

111

, · ; :

Web Browser Defaults

OS	Browser	Sans-Serif	Serif	Monospace
		Arial	Times New Roman Batang*	Courier New
		Arial	Times New Roman	Consolas

* IE 9 & 10; 11 switches back to Times New Roman

OS	Browser	Sans-Serif	Serif	Monospace
		Arial	Times New Roman	Courier New
		Helvetica	Times	Courier
		sans-serif	serif	monospace

* IE 9 & 10; 11 switches back to Times New Roman

OS	Browser	Sans-Serif	Standard	Fixed-Width
----	---------	------------	----------	-------------



		Helvetica San Francisco		
--	--	----------------------------	--	--

			Times	
--	--	--	-------	--

				Courier
--	--	--	--	---------




Since Safari 6, user stylesheets are the *only* way for users to change defaults

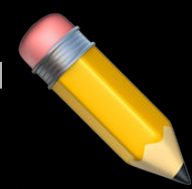
OS	Browser	Sans-Serif	Serif	Mono
		Arial	Times New Roman	Courier New Consolas*
		Helvetica	Times	Courier
		sans	serif	monospace

* Windows 7 & up

Other browsers based on Chromium share the same
typeface defaults

- » Blink
- » Brave
- » Edge
- » Opera
- » Vivaldi

OS	Browser	Sans-Serif	Serif	Mono
iOS		Helvetica (1–8) San Francisco (9+)	Times	Courier
		Droid Sans	Droid Serif	Droid Sans Mono



SIDE NOTE

Adobe makes 3 excellent fonts available that are open source & free

- » ~~Source Sans Pro~~ Source Sans
- » ~~Source Serif Pro~~ Source Serif
- » Source Code Pro

Here's how to download them



Adobe Fonts

437 followers



github.com/adobe-fonts

Follow

- Overview
- Repositories 38
- Projects
- Packages
- People 4

Pinned




 **source-serif** Public

Typeface for setting text in many sizes, weights, and languages. Designed to complement Source Sans.

 CSS  2k  157

 **source-sans** Public

Sans serif font family for user interface environments

 CSS  3.2k  231

 **source-code-pro** Public

Monospaced font family for user interface and coding environments

 CSS  18.8k  1.6k

 **source-han-serif** Public

Source Han Serif | 思源宋体 | 思源宋體 | 思源宋體
香港 | 源ノ明朝 | 본명조

 Shell  6.9k  655

People



Top languages

 PostScript  Shell  CSS

 Python  HTML

Most used topics

[opentype](#) [otf](#) [font](#) [fonts](#)



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Shell 6.9k 655

People



Top languages

PostScript Shell CSS

Python HTML

Most used topics










opentype otf font fonts

release

Go to file

Add file

<>Code

	frankrolf Update font files to version 4.005	on Jan 20 40
	OTF Update font files to version 4.005	2 months ago
	TTF Update font files to version 4.005	2 months ago
	VAR Update font files to version 4.005	2 months ago
	WOFF Update font files to version 4.005	2 months ago
	WOFF2 Update font files to version 4.005	2 months ago
	demo Updated styles.css - normal font is 400	2 years ago
	.gitignore Add .gitignore	2 months ago
	LICENSE.md Update LICENSE.md	2 months ago

About

Typeface for setting text in many sizes, weights, and languages. Designed to complement Source Sans.

[adobe-fonts.github.io/source-se...](#)

fonts

otf

afdko

opentype-fonts

variable-fonts

ttf-fonts

Readme

OFL-1.1 license

2k stars










95 watching

release

Go to file

Add file

<> Code

	frankrolf Update font files to version 4.005	on Jan 20 40
	OTF Update font files to version 4.005	2 months ago
	TTF Update font files to version 4.005	2 months ago
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Typeface for setting text in many sizes, weights, and languages. Designed to complement Source Sans.

[adobe-fonts.github.io/source-se...](#)

fonts

otf

afdko

opentype-fonts

variable-fonts

ttf-fonts

Readme

OFL-1.1 license

2k stars


95 watching

Fonts version 4.005 (OTF, TTF, WOFF, WOFF2, Variable)

Compare ▾

 frankrolf released this Jan 20  4.005R  2823e99

Technical update – the CFF2 variable fonts (.otf) are now hinted.

 CAUTION:
Windows 10 and 11 currently have a major bug handling CFF2 variable fonts that could result in text corruption; we recommend using the TTF files on Windows machines until Microsoft addresses this. Microsoft is aware of the issue.

▼Assets 5


 source-serif-4.005_Desktop.zip	16.8 MB	Jan 20
 source-serif-4.005_WOFF.zip	13.9 MB	Jan 20
 source-serif-4.005_WOFF2.zip	11.1 MB	Jan 20
 Source code (zip)		Jan 20

Fonts version 4.005 (OTF, TTF, WOFF, WOFF2, Variable)

Compare ▾

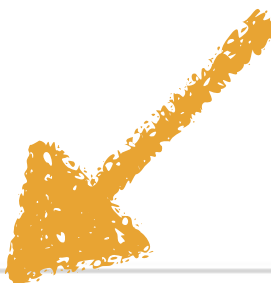
 frankrolf released this Jan 20  4.005R  2823e99

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Windows 10 and 11 currently have a major bug handling CFF2 variable fonts that could result in text corruption; we recommend using the TTF files on Windows machines until Microsoft addresses this. Microsoft is aware of the issue.

▼Assets

5



 source-serif-4.005_Desktop.zip	16.8 MB	Jan 20
 source-serif-4.005_WOFF.zip	13.9 MB	Jan 20
 source-serif-4.005_WOFF2.zip	11.1 MB	Jan 20
 Source code (zip)		Jan 20



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 CSS  18.8k  1.6k

 **source-han-serif** Public

Source Han Serif | 思源宋体 | 思源宋體 | 思源宋體
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 Shell  6.9k  655

People



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 Shell  6.9k  655

People



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[opentype](#) [otf](#) [font](#) [fonts](#)

release

Go to file

Add file

<> Code

frankrolf Update npm package ...

on Sep 7, 2021 56

OTF	Updates all compiled fonts to version 3.046.	2 years ago
TTF	Updates all compiled fonts to version 3.046.	2 years ago
VAR	Updates all compiled fonts to version 3.046.	2 years ago
WOFF	Updates all compiled fonts to version 3.046.	2 years ago
WOFF2	Updates all compiled fonts to version 3.046.	2 years ago
LICENSE.md	Updates all font files + CSS files. Updates y...	3 years ago
README.md	Update README.md	2 years ago
package.json	Update npm package	2 years ago
source-sans.woff2	Updates all font files + CSS files. Updates y...	2 years ago

About

Sans serif font family for user interface environments

[adobe-fonts.github.io/source-sa...](#)

fontsotfafdko

opentype-fontsvariable-fonts

ttf-fonts

Readme

OFL-1.1 license

3.2k stars

142 watching

231 forks

release

Go to file

Add file

<> Code

frankrolf Update npm package on Sep 7, 2021 56

OTF	Updates all compiled fonts to version 3.046.	2 years ago
TTF	Updates all compiled fonts to version 3.046.	2 years ago
VAR	Updates all compiled fonts to version 3.046.	2 years ago
WOFF	Updates all compiled fonts to version 3.046.	2 years ago
WOFF2	Updates all compiled fonts to version 3.046.	2 years ago
LICENSE.md	Updates all font files + CSS files. Updates y...	3 years ago
README.md	Update README.md	2 years ago
package.json	Update npm package	2 years ago



About

Sans serif font family for user interface environments

[adobe-fonts.github.io/source-sa...](https://adobe-fonts.github.io/source-sans-pro/)

fonts

otf

afdko

opentype-fonts

variable-fonts

ttf-fonts

Readme

OFL-1.1 license

3.2k stars

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231 forks

Source Sans 3

[Source Sans](#) is a set of OpenType fonts that have been designed to work well in user interface (UI) environments.

Open source files

The fonts' source files and build instructions are available in the [repository's master branch](#).

Getting involved

[Open an issue](#) or send a suggestion to Source Sans' designer [Paul D. Hunt](#), for consideration.

Releases

- [Latest release](#)
- [All releases](#)

[+ 14 releases](#)

Packages

No packages published

Used by 125



Contributors 3



Environments 1

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[+ 14 releases](#)

Packages

No packages published

Used by 125



Contributors 3

 **miguelsousa** Miguel Sousa




 **pauldhunt** Paul D. Hunt

 **frankrolf** Frank Griebhammer

Environments 1








Fonts version 3.046 (OTF, TTF, WOFF, WOFF2, Variable)

Compare ▾

 pauldhunt released this Jul 14, 2021 · [1 commit](#) to release since this release  3.046R  c1a1caa




Corrects copyright notice. (GitHub issue [#223](#))

▼ Assets 7

 OTF-source-sans-3.046R.zip	1.97 MB	Jul 14, 2021
 TTF-source-sans-3.046R.zip	2.02 MB	Sep 7, 2022
 VAR-source-sans-3.046R.zip	769 KB	Jul 14, 2021
 WOFF-source-sans-3.046R.zip	4.01 MB	Jul 14, 2021
 WOFF2-source-sans-3.046R.zip	3.23 MB	Jul 14, 2021
 Source code (zip)		Jul 14, 2021
 Source code (tar.gz)		Jul 14, 2021

Fonts version 3.046 (OTF, TTF, WOFF, WOFF2, Variable)








Compare ▾

 pauldhunt released this Jul 14, 2021 · [1 commit](#) to release since this release  3.046R  c1a1caa

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 VAR-source-sans-3.046R.zip	769 KB	Jul 14, 2021
 WOFF-source-sans-3.046R.zip	4.01 MB	Jul 14, 2021
 WOFF2-source-sans-3.046R.zip	3.23 MB	Jul 14, 2021
 Source code (zip)		Jul 14, 2021
 Source code (tar.gz)		Jul 14, 2021



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github.com/adobe-fonts

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 CSS  2k  157

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 **source-han-serif** Public

Source Han Serif | 思源宋体 | 思源宋體 | 思源宋體
香港 | 源ノ明朝 | 본명조

 Shell  6.9k  655

People



Top languages

 PostScript  Shell  CSS

 Python  HTML

Most used topics

[opentype](#) [otf](#) [font](#) [fonts](#)



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● Shell ☆ 6.9k 🍴 655

People



Top languages

● PostScript ● Shell ● CSS

● Python ● HTML

Most used topics











[opentype](#) [otf](#) [font](#) [fonts](#)

release

Go to file

Add file

<>Code

	punchcutter Update README.md	on Jan 20 29
	OTF	Source Code Pro, version 2038 (roman), ver... 2 years ago
	TTF	Source Code Pro, version 2038 (roman), ver... 2 years ago
	VAR	Source Code Pro, version 2038 (roman), ver... 2 years ago
	WOFF	Source Code Pro, version 2038 (roman), ver... 2 years ago
	WOFF2	Source Code Pro, version 2038 (roman), ver... 2 years ago
	LICENSE.md	Remove executable bit from non-executable... 3 years ago
	README.md	Update README.md 2 months ago
	package.json	Update package.json 2 years ago
	source-code-pro-oss	Remove executable bit from non-executable... 2 years ago

About

Monospaced font family for user interface and coding environments

[adobe-fonts.github.io/source-co...](#)

fontsotfafdko

opentype-fontsvariable-fonts

ttf-fonts

Readme

OFL-1.1 license

18.8k stars

613 watching


1.6k forks

release

Go to file

Add file










<> Code



punchcutter

Update README.md

on Jan 2029

	OTF	Source Code Pro, version 2038 (roman), ver...	2 years ago
	TTF	Source Code Pro, version 2038 (roman), ver...	2 years ago
	VAR	Source Code Pro, version 2038 (roman), ver...	2 years ago
	WOFF	Source Code Pro, version 2038 (roman), ver...	2 years ago
	WOFF2	Source Code Pro, version 2038 (roman), ver...	2 years ago
	LICENSE.md	Remove executable bit from non-executable...	3 years ago
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otf

afdko

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18.8k stars

613 watching

1.6k forks

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Getting involved

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Releases

- [Latest release](#)
- [All releases](#)

[+ 12 releases](#)

Packages

No packages published

Used by 463



Contributors 6



Environments 1

 [github-pages](#) Active

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- [All releases](#)



[+ 12 releases](#)

Packages

No packages published

Used by 463



Contributors 6



Environments 1

 [github-pages](#) Active

Roman fonts version 2.038, Italic fonts version 1.058 and VAR fonts version 1.018 (OTF, TTF, WOFF, WOFF2)






Latest

Compare

 pauldhunt released this Jan 14, 2021 · [2 commits](#) to release since this release  2.038R-ro/1.0...  678cc31

Resolves issue with faulty style linking in variable fonts. (issue [#256](#))

▼ Assets 7

 OTF-source-code-pro-2.038R-ro-1.058R-it.zip	1.11 MB	Jan 14, 2021
 TTF-source-code-pro-2.038R-ro-1.058R-it.zip	919 KB	Jan 14, 2021
 VAR-source-code-var-1.018R.zip	376 KB	Jan 14, 2021
 WOFF-source-code-pro-2.038R-ro-1.058R-it.zip	2.24 MB	Jan 14, 2021
 WOFF2-source-code-pro-2.038R-ro-1.058R-it.zip	1.89 MB	Jan 14, 2021

Roman fonts version 2.038, Italic fonts version 1.058 and VAR fonts version 1.018 (OTF, TTF, WOFF, WOFF2)

Compare ▾

Latest



pauldhunt released this Jan 14, 2021

· [2 commits](#) to release since this release



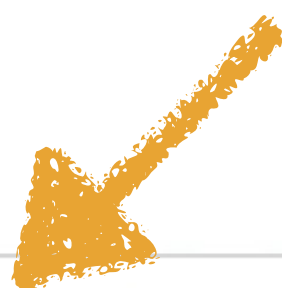
2.038R-ro/1.0...

678cc31

Resolves issue with faulty style linking in variable fonts. (issue [#256](#))

▼ Assets

7



 [OTF-source-code-pro-2.038R-ro-1.058R-it.zip](#)

1.11 MB

Jan 14, 2021

 [TTF-source-code-pro-2.038R-ro-1.058R-it.zip](#)

919 KB

Jan 14, 2021

 [VAR-source-code-var-1.018R.zip](#)

376 KB

Jan 14, 2021

 [WOFF-source-code-pro-2.038R-ro-1.058R-it.zip](#)

2.24 MB

Jan 14, 2021

 [WOFF2-source-code-pro-2.038R-ro-1.058R-it.zip](#)

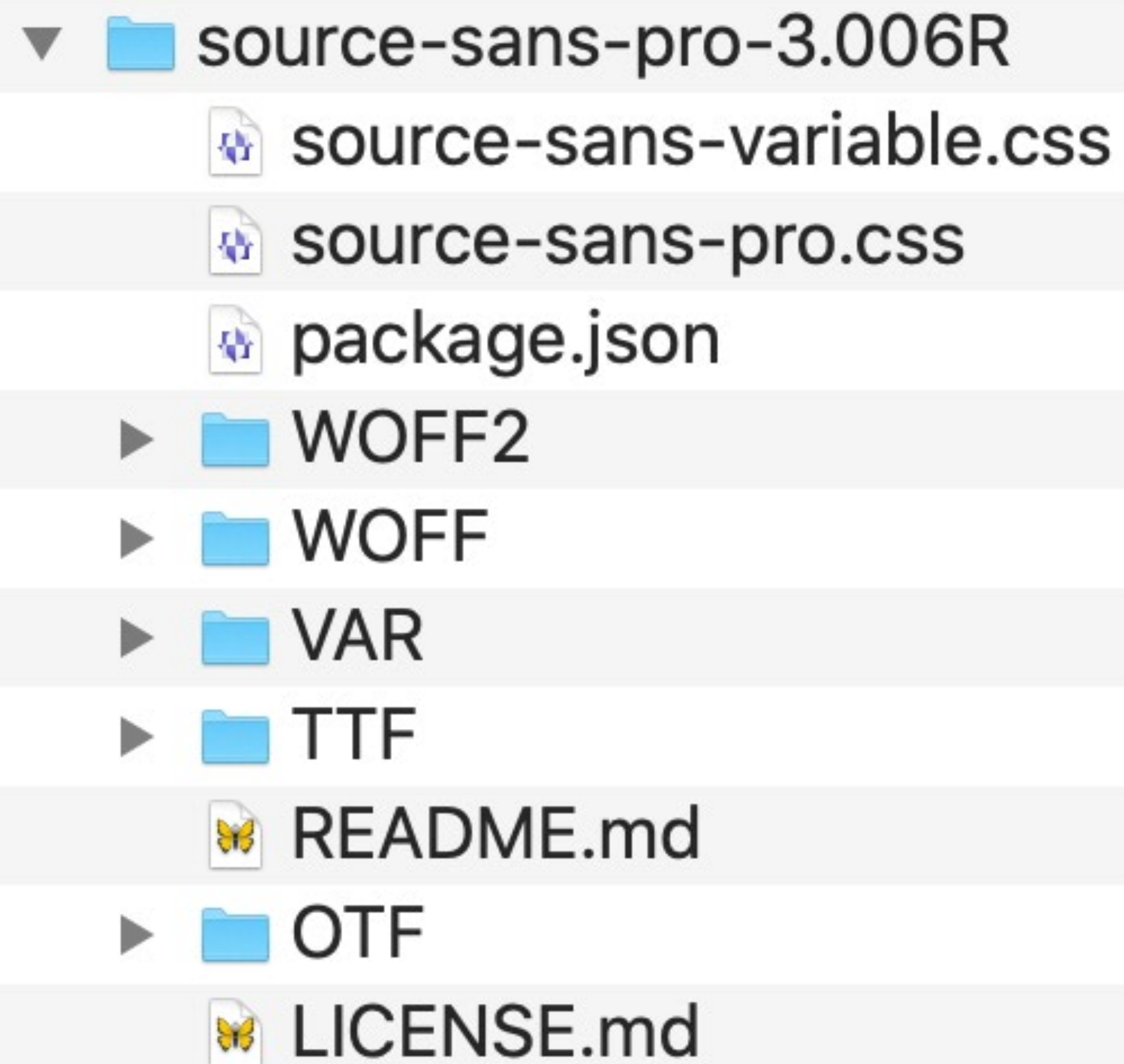
1.89 MB

Jan 14, 2021

You should have 3 files in Downloads (of course, you'll see different versions):

- » `OTF-source-code-pro-2.038R-ro-1.058R-it.zip`
- » `OTF-source-sans-3.046R.zip`
- » `source-serif-4.005_Desktop.zip`

Unzip them



Open each folder & you'll see an OTF folder

The files in the OTF folder are what you want to install

My web browser defaults

Sans-serif: Source Sans

Serif: Source Serif or Georgia Pro

Monospace: Source Code Pro

Standard font

Source Sans 3 ▼

16: The quick brown fox jumps over the lazy dog

Serif font

Source Serif 4 ▼

16: The quick brown fox jumps over the lazy dog

Sans-serif font

Source Sans 3 ▼

16: The quick brown fox jumps over the lazy dog

Fixed-width font

Source Code Pro ▼

13: The quick brown fox jumps over the lazy dog

Chromium-based browsers
(e.g., Chrome, Brave,
Vivaldi): Settings >
Appearance > Customize
Fonts...

Fonts

×

Fonts for

Latin

Proportional

Sans Serif

Size

16

Serif

Source Serif 4

Sans-serif

Source Sans 3

Monospace

Source Code Pro

Size

14

Minimum font size

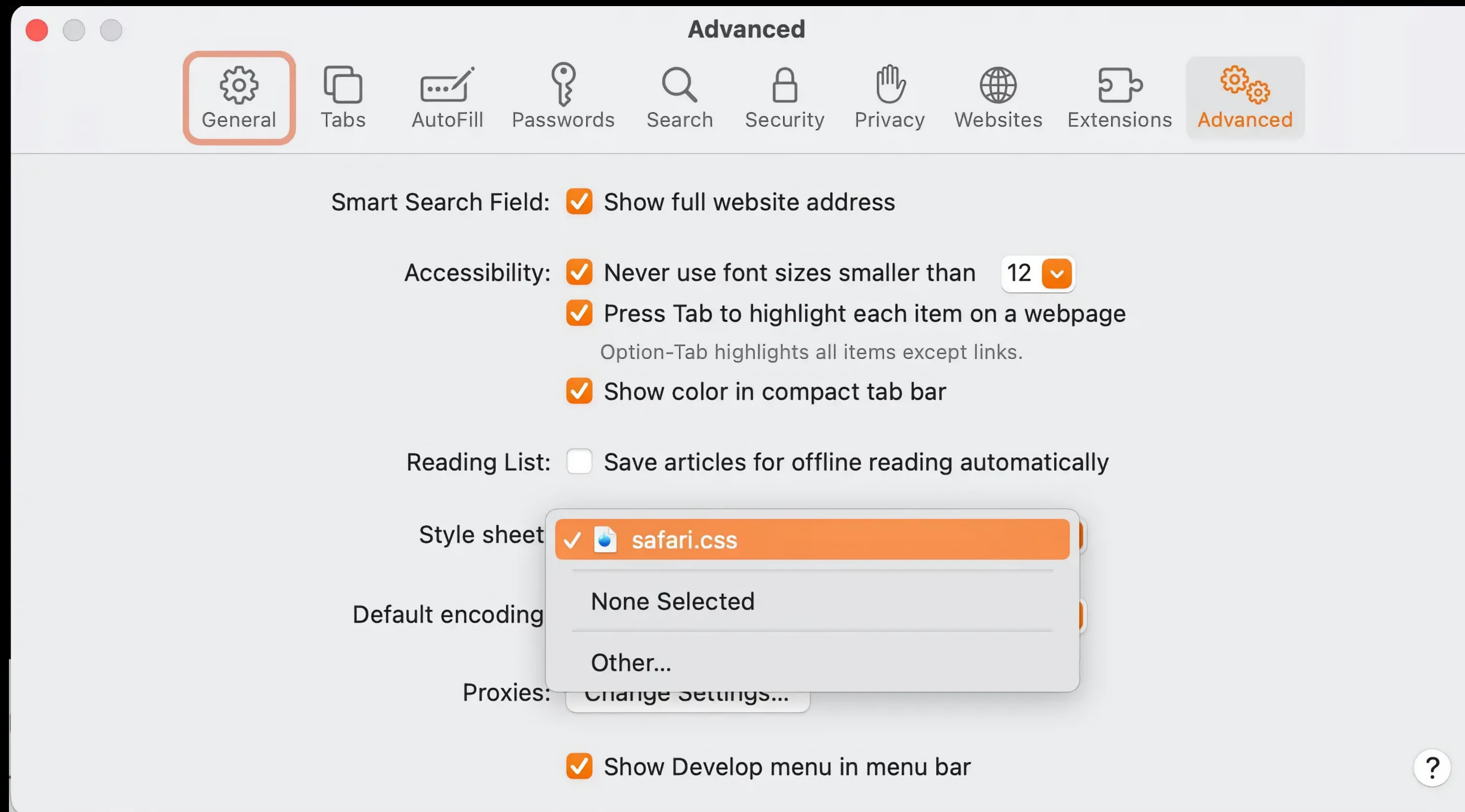
12

☒ Allow pages to choose their own fonts, instead of your selections above

Cancel

OK

Firefox: Preferences > General > Fonts > Advanced...



Safari: Preferences > Advanced > Style Sheet



Pre-Chromium Edge: *No way* to set your own default fonts!



Pre-Chromium Edge: *No way* to set your own default fonts!

HTML

```
1 <div class="serif">
2   <h2>Serif</h2>
3   <p></p>
4 </div>
5
6 <div class="sans-serif">
7   <h2>Sans-Serif</h2>
8   <p></p>
9 </div>
10
11 <div class="monospace">
12   <h2>Monospace</h2>
13   <p></p>
14 </div>
```

CSS

```
1 .serif {
2   font-family: serif;
3 }
4
5 .sans-serif {
6   font-family: sans-serif;
7 }
8
9 .monospace {
10  font-family: monospace;
11 }
```

JS

Serif

This is your default serif font. ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 0123456789

Sans-Serif

This is your default sans-serif font. ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 0123456789

Monospace

This is your default monospace font.
ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz
0123456789

Check out your browser defaults

Installing Fonts

The following example uses fonts downloaded from Google Fonts, but the methods apply to any fonts

Bungee Spice

Designed by [David Jonathan Ross](#)

KU AYANA TIMBANGAN
YEN NGALELEWODEHKEUN
KATUT NGANGGAP ENTENG

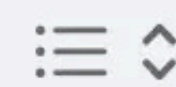


Bungee Spice

Designed by [David Jonathan Ross](#)

KU AYANA TIMBANGAN
YEN NGALELEWODEHKEUN
KATUT NGANGGAP ENTENG






+

108 KB ZIP archive

Simply double-click on the zip file...

Macintosh HD > Users > rsgranne > Downloads > Downloads

1 item, 266.91 GB available

 GranneBook Pro



Favorites

- rsgranne
- Desktop
- Dropbox
- Documents
- Downloads
- Applications
- Photos
- Library
- AirDrop
- Recents
- Inbox
- DEVONthink PDF
- Git
- Web Dev Projects
- WebSanity
- Collections

iCloud

- iCloud Drive
- Shared

Locations

GranneBook Pro

Downloads



Desktop

Downloads

Presentati...

Decision T...

+Screenfl...

Vidzu - lo...

+PUT AW...

6045-47...

.

+

Name

Version

Date Modified

Size

Kind

✓ Bungee_Spice		2022-09-19	506 KB	Folder
BungeeSpice-Regular.ttf	Ver....0.1	2021-12-07	501 KB	TrueType® font
OFL.txt		2021-12-07	4 KB	text
Bungee_Spice.zip		2022-09-19	108 KB	ZIP archive

It unzips into a folder

The `ttf` is the font file, while `OFL.txt` is the license

Now double-click on the `ttf` file...

Macintosh HD > Users > rsgranne > Downloads > Downloads > Bungee_Spice

1 of 4 selected, 266.92 GB available



Bungee Spice

Regular



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

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

1 2 3 4 5 6 7 8 9 0

(Not Installed)

Install Font

Click here



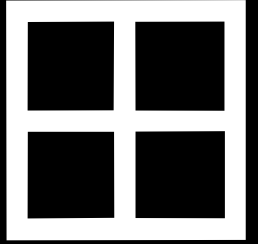
- > Audiowide
- > Batang
- > Bembo Std
- > Bentham
- > Bison
- > Born
- > Broadway
- > Bungee Spice
- > Butler
- > Calibri
- > Cambria
- > Cambria Math
- > Candara
- > Cardo
- > Caslon Antique
- > Caxton Light Italic
- > Caxton Roman Bold
- > Caxton Roman Book
- > Caxton Roman Light
- > CC demo
- > CCComicrazy
- > CCDigitalDelivery
- > CCDigitalDeliveryDisplay
- > CCEmpireStateDeco
- > CCEmpireStateDecoInline
- > CCEmpireStateDecoOutline
- > CCEmpireStateDecoSplit
- > CCExtraExtra
- > CCExtraExtraEngraved
- > CCHedgeBackwards
- > CCHedgeBackwardsLower
- > CCHookySolid
- > CCMonologous
- > CCScoundrel
- > CCScoundrel

Bungee Spice Regular

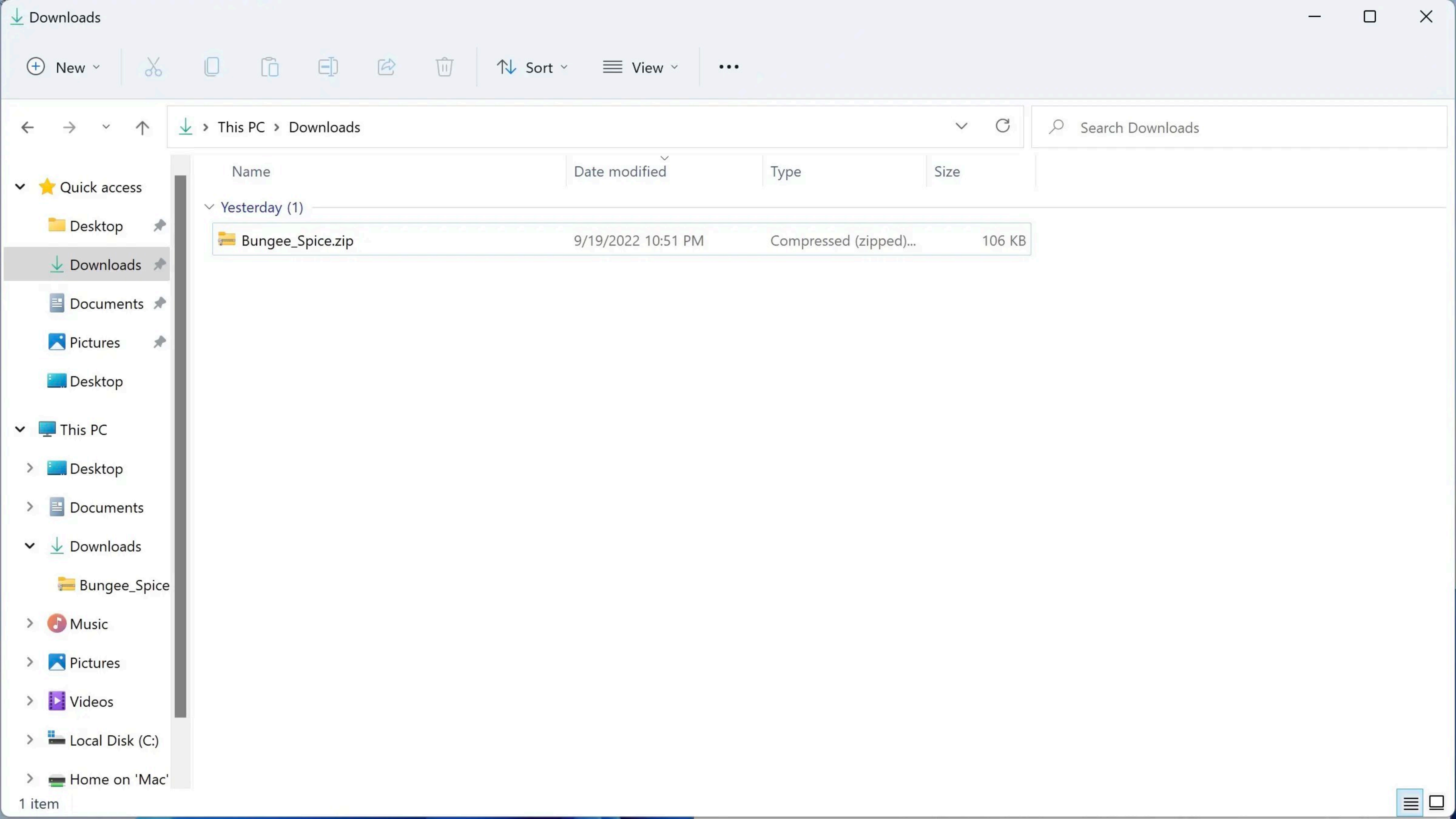
Size: 36

Once the font is installed, the
built-in app Font Book opens
to show you the font

À Á Â Ã Ä Å Æ Ç È É Ê Ë Ì Í Î Ï Ñ Ò Ó Ô Õ Ö × Ø Ù Ú Û Ü Ý Þ ß à á â ã

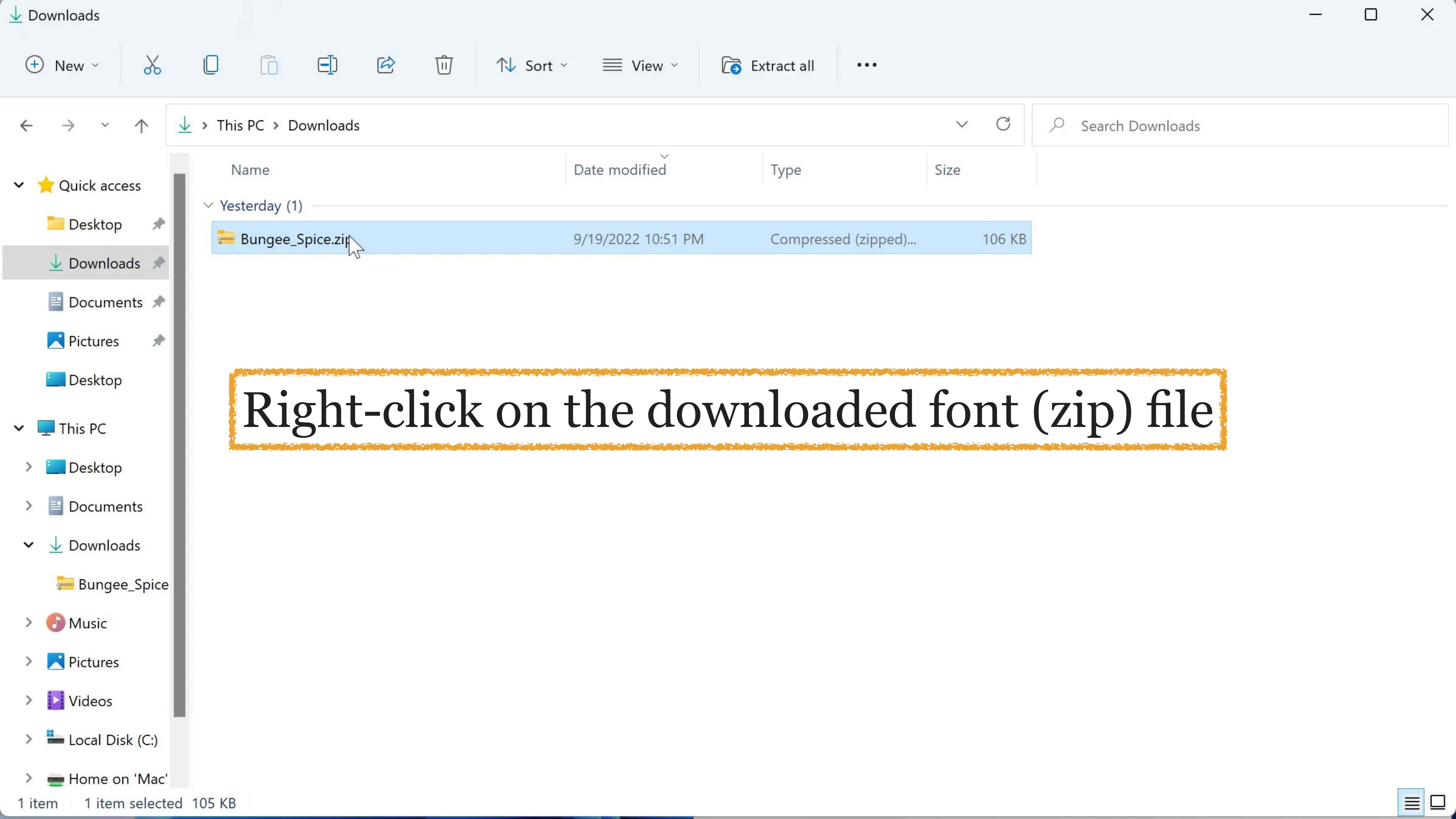


Installing fonts on Windows takes a lot more steps, so
buckle up

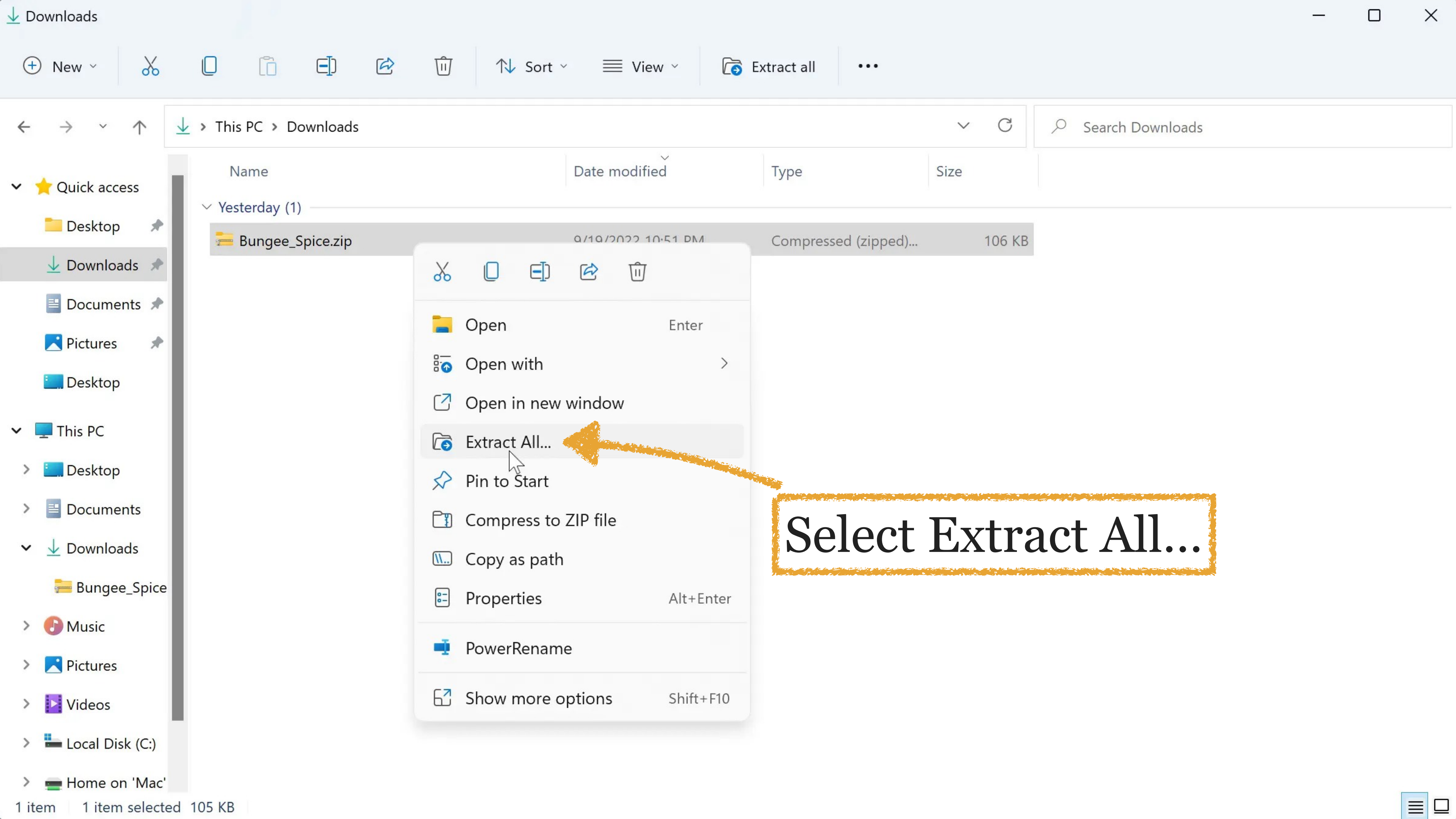


- ▼ ★ Quick access
 - 📁 Desktop ↗
 - Downloads ↗
 - 📄 Documents ↗
 - 🖼️ Pictures ↗
 - 🖥️ Desktop
- ▼ 🖥️ This PC
 - > 🖥️ Desktop
 - > 📄 Documents
 - ▼ Downloads
 - 📁 Bungee_Spice
 - > 🎵 Music
 - > 🖼️ Pictures
 - > 🎬 Videos
 - > 💿 Local Disk (C:)
 - > 🏠 Home on 'Mac'

Name	Date modified ▾	Type	Size
▼ Yesterday (1)			
📁 Bungee_Spice.zip	9/19/2022 10:51 PM	Compressed (zipped)...	106 KB



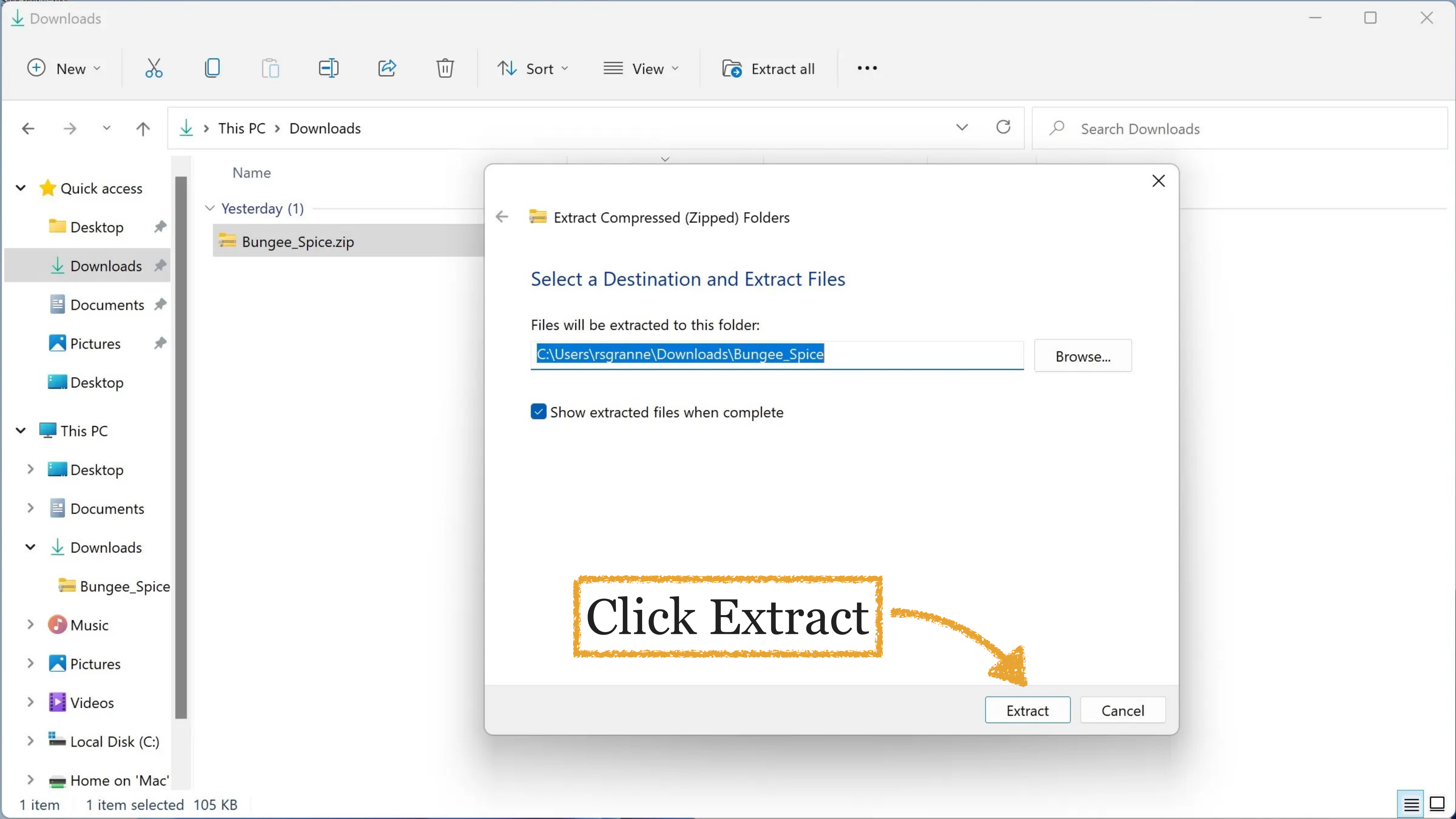
Right-click on the downloaded font (zip) file

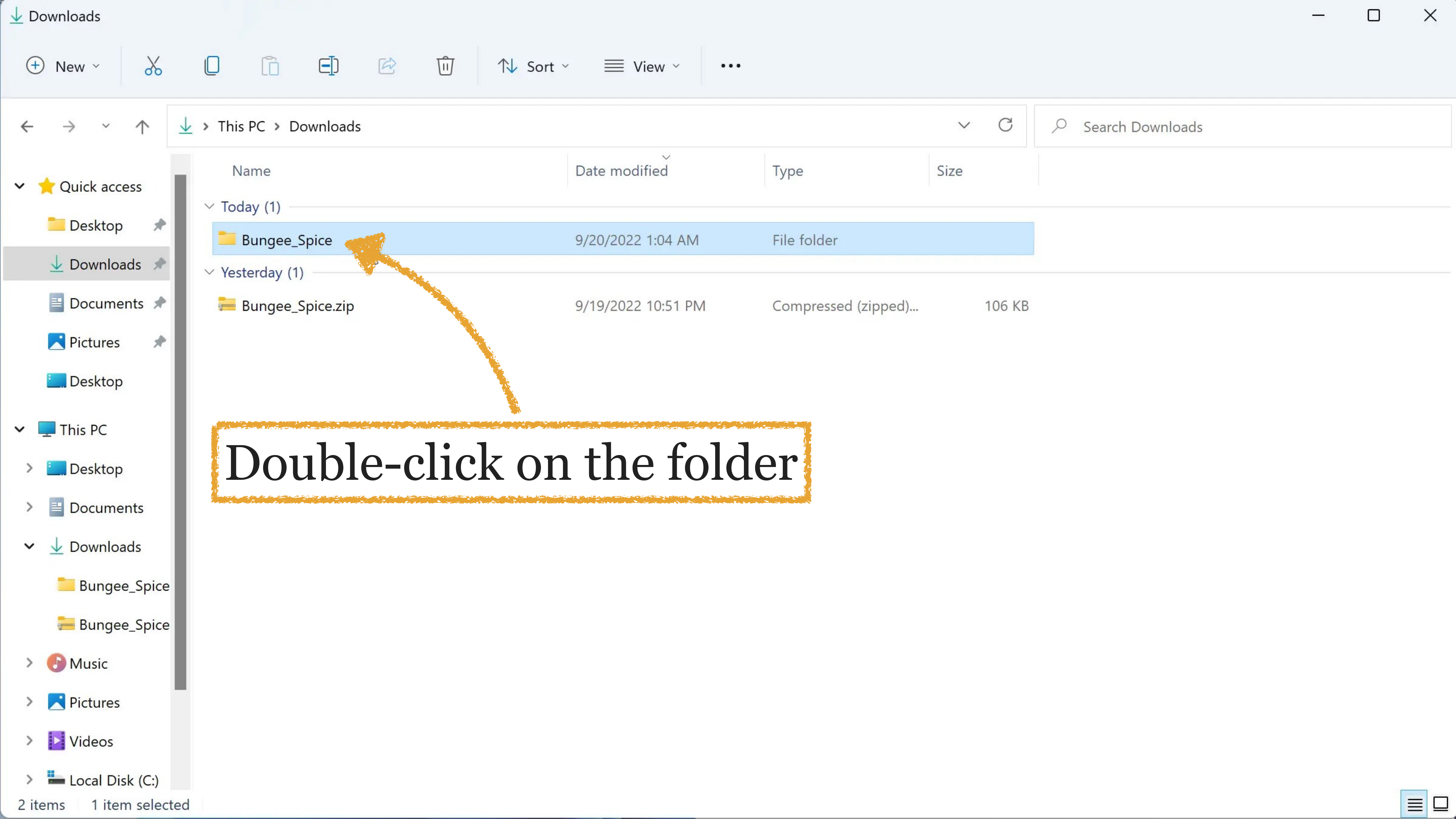


Name	Date modified	Type	Size
Yesterday (1)			
Bungee_Spice.zip	9/19/2022 10:51 PM	Compressed (zipped)...	106 KB

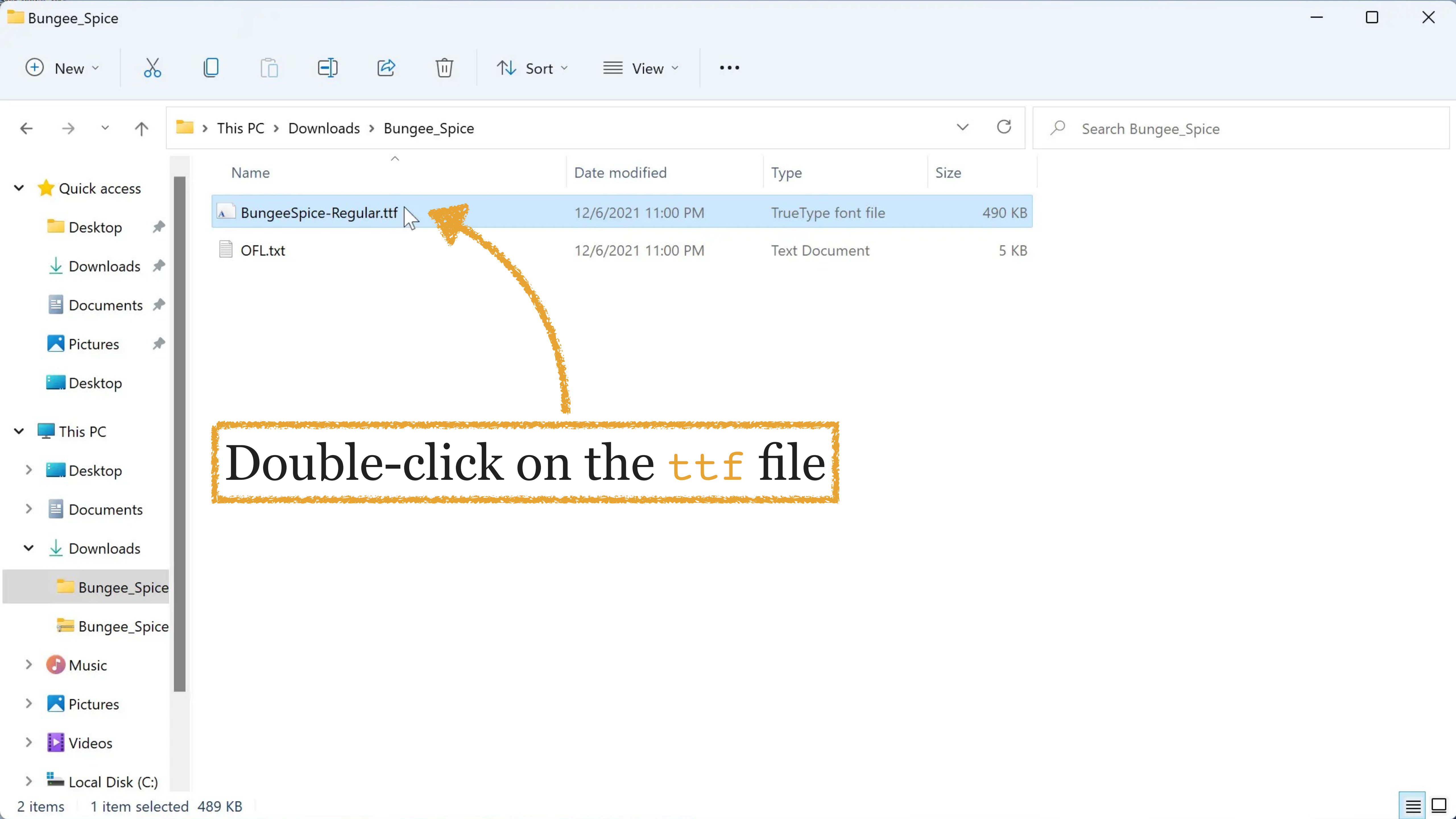
- Cut Copy Paste Share Delete
- Open Enter
- Open with >
- Open in new window
- Extract All...
- Pin to Start
- Compress to ZIP file
- Copy as path
- Properties Alt+Enter
- PowerRename
- Show more options Shift+F10

Select Extract All...

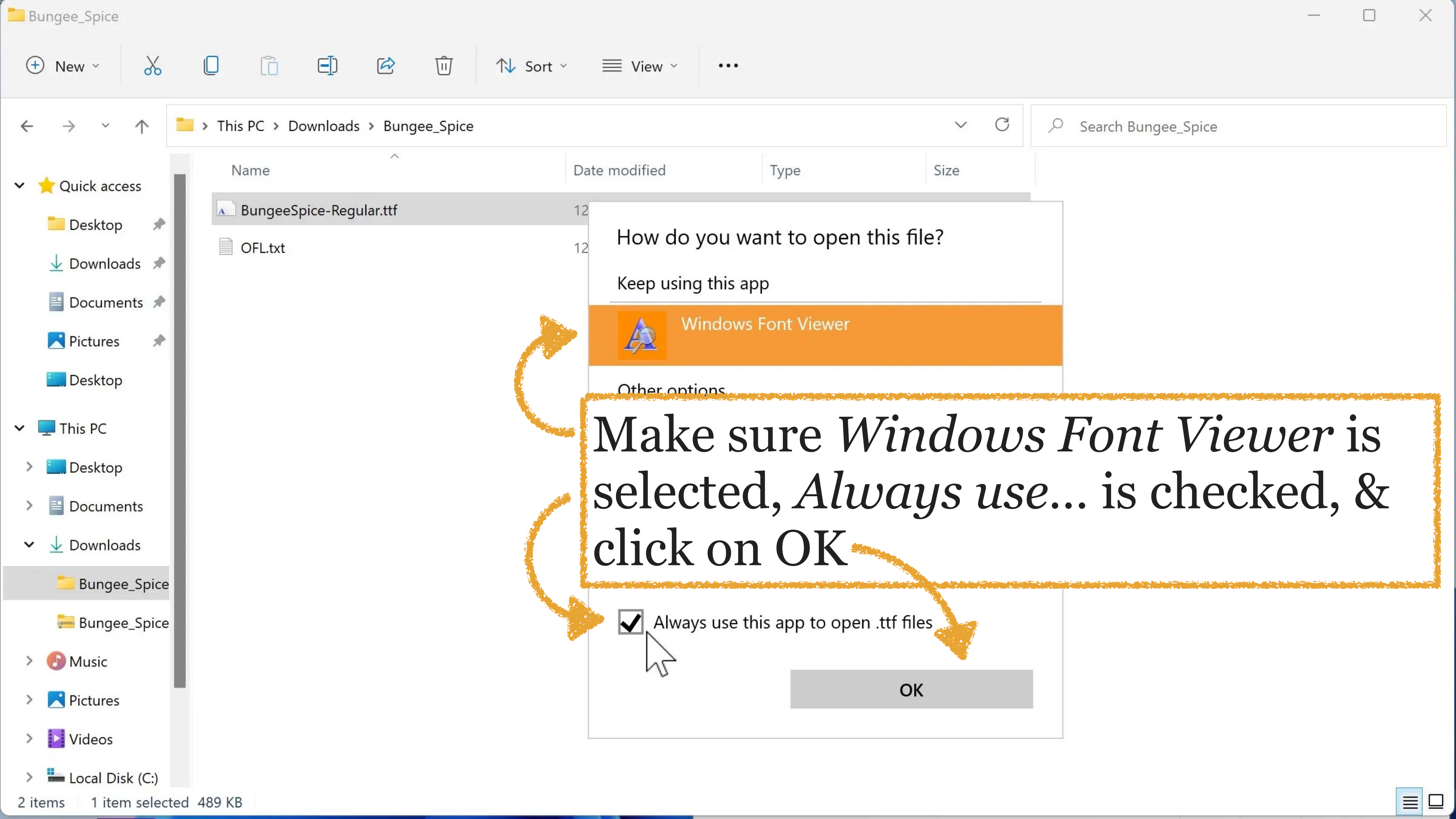




Double-click on the folder



Double-click on the ttf file



New ▾

✂

📄

📁

📄

📄

🗑

Sort ▾

View ▾

...

←

→

▾

↑

📁 > This PC > Downloads > Bungee_Spice

🔍 Search Bungee_Spice

Name

Date modified

Type

Size

📄 BungeeSpice-Regular.ttf

12

📄 OFL.txt

12

How do you want to open this file?

Keep using this app



Windows Font Viewer

Other options

Make sure *Windows Font Viewer* is selected, *Always use...* is checked, & click on OK

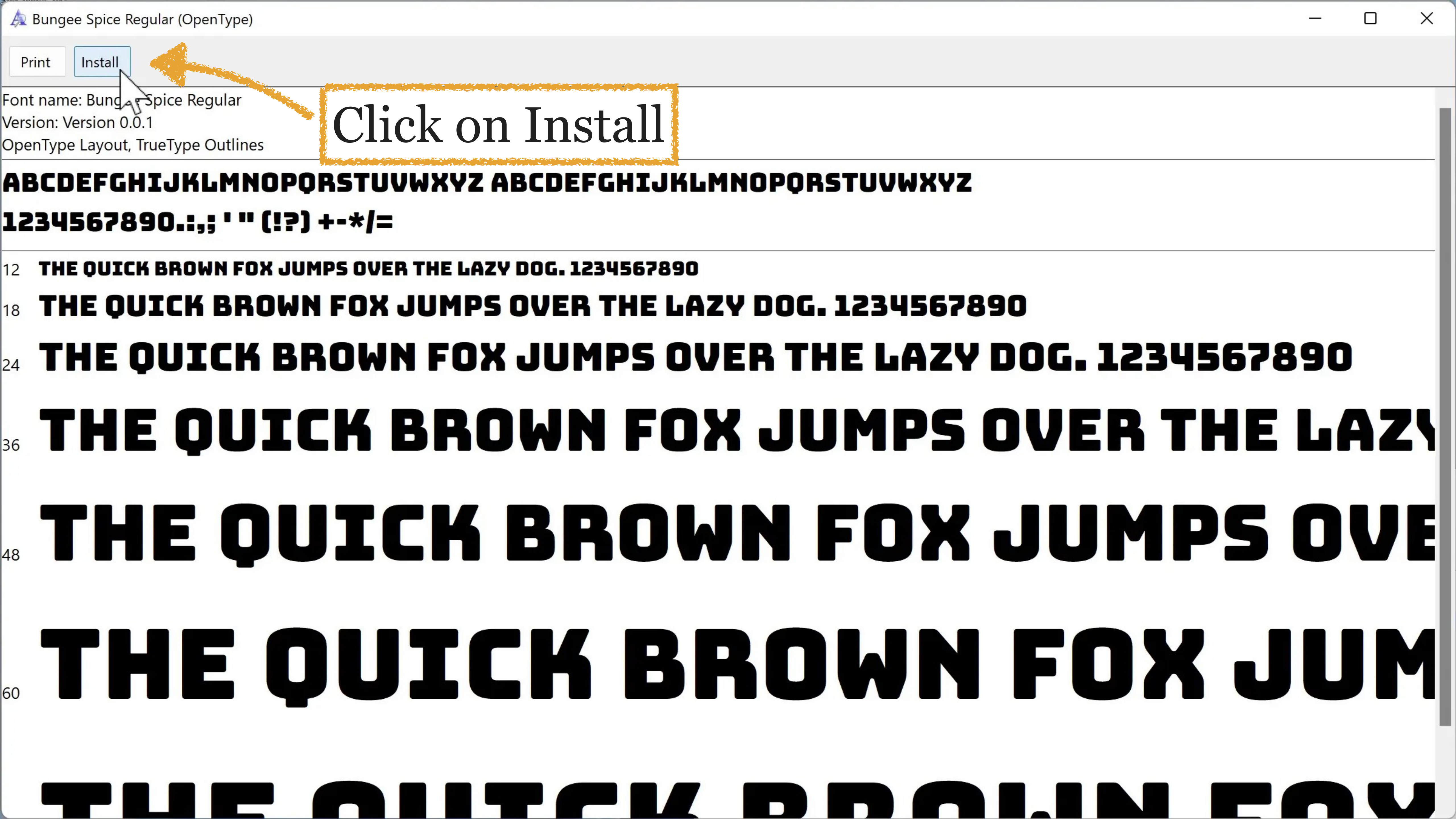


Always use this app to open .ttf files

OK

2 items | 1 item selected | 489 KB





Print

Install

Click on Install

Font name: Bungee Spice Regular
Version: Version 0.0.1
OpenType Layout, TrueType Outlines

ABCDEFGHIJKLMNOPQRSTUVWXYZ ABCDEFGHIJKLMNOPQRSTUVWXYZ

1234567890.:,: ' " (!?) +-*/=

12 THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG. 1234567890

18 THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG. 1234567890

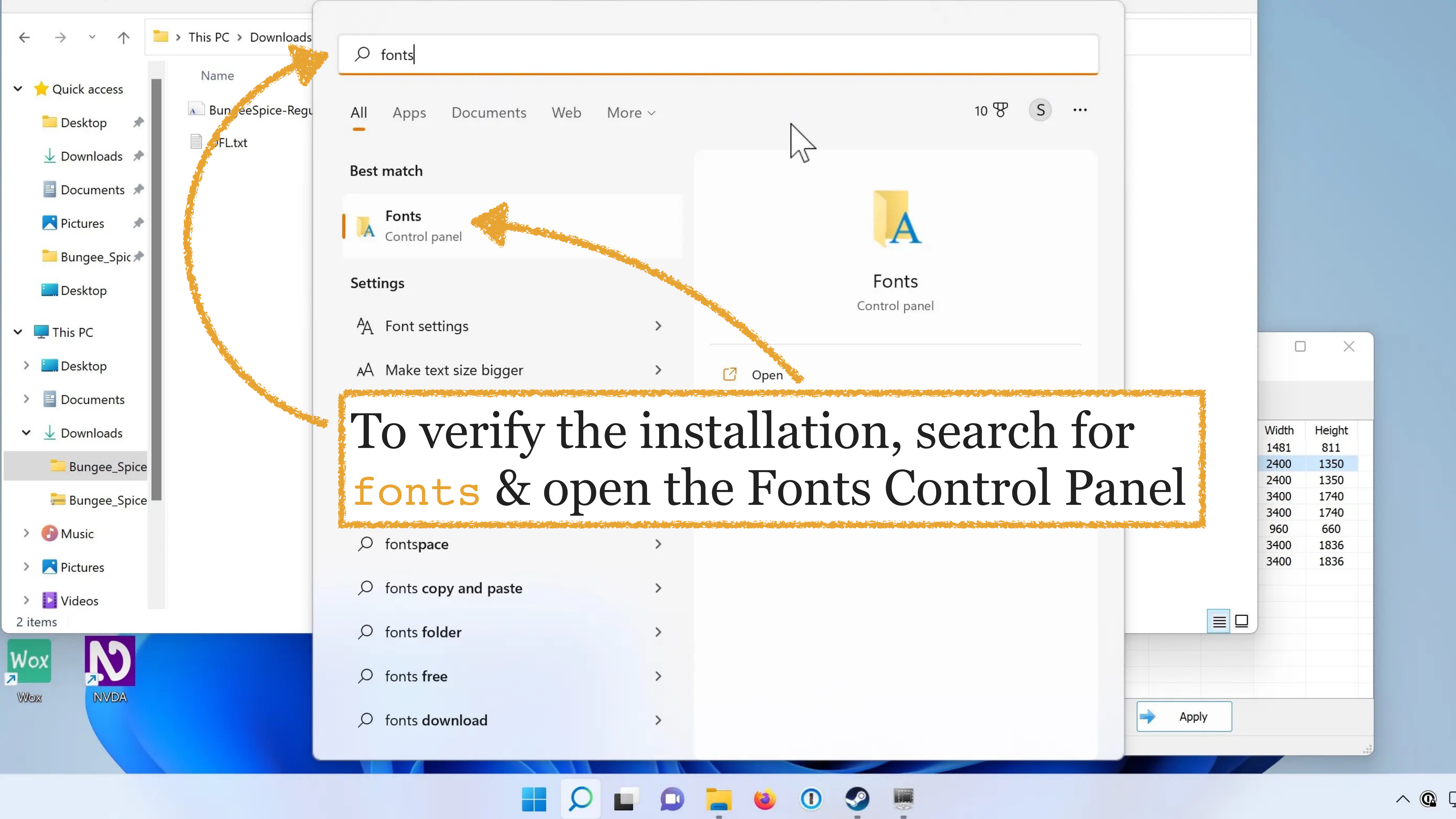
24 THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG. 1234567890

36 THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG. 1234567890

48 THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG. 1234567890

60 THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG. 1234567890

THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG. 1234567890



To verify the installation, search for
fonts & open the Fonts Control Panel

Width	Height
1481	811
2400	1350
2400	1350
3400	1740
3400	1740
960	660
3400	1836
3400	1836

Apply

Fonts

Control Panel > Appearance and Personalization > Fonts

Control Panel Home

Font settings

Get more font information online

Adjust ClearType text

Find a character

Download fonts for all languages

Preview, delete, or show and hide the fonts in your computer

Organize

8514oem Regular

Arial

Bahnschrift

Bungee Spice Regular

Calibri

Cambria

Cambria Math Regular

Candara

Comic Sans MS

Consolas

Constantia

Corbel

Courier New

Courier Regular

Ebrima

Fixedsys Regular

Franklin Gothic

Gabriola Regular

Lucida Sans Unicode Regular

한글

ଂବଂ

繁體

繁體

၂၀၀၀

ᄀᄂᄄ

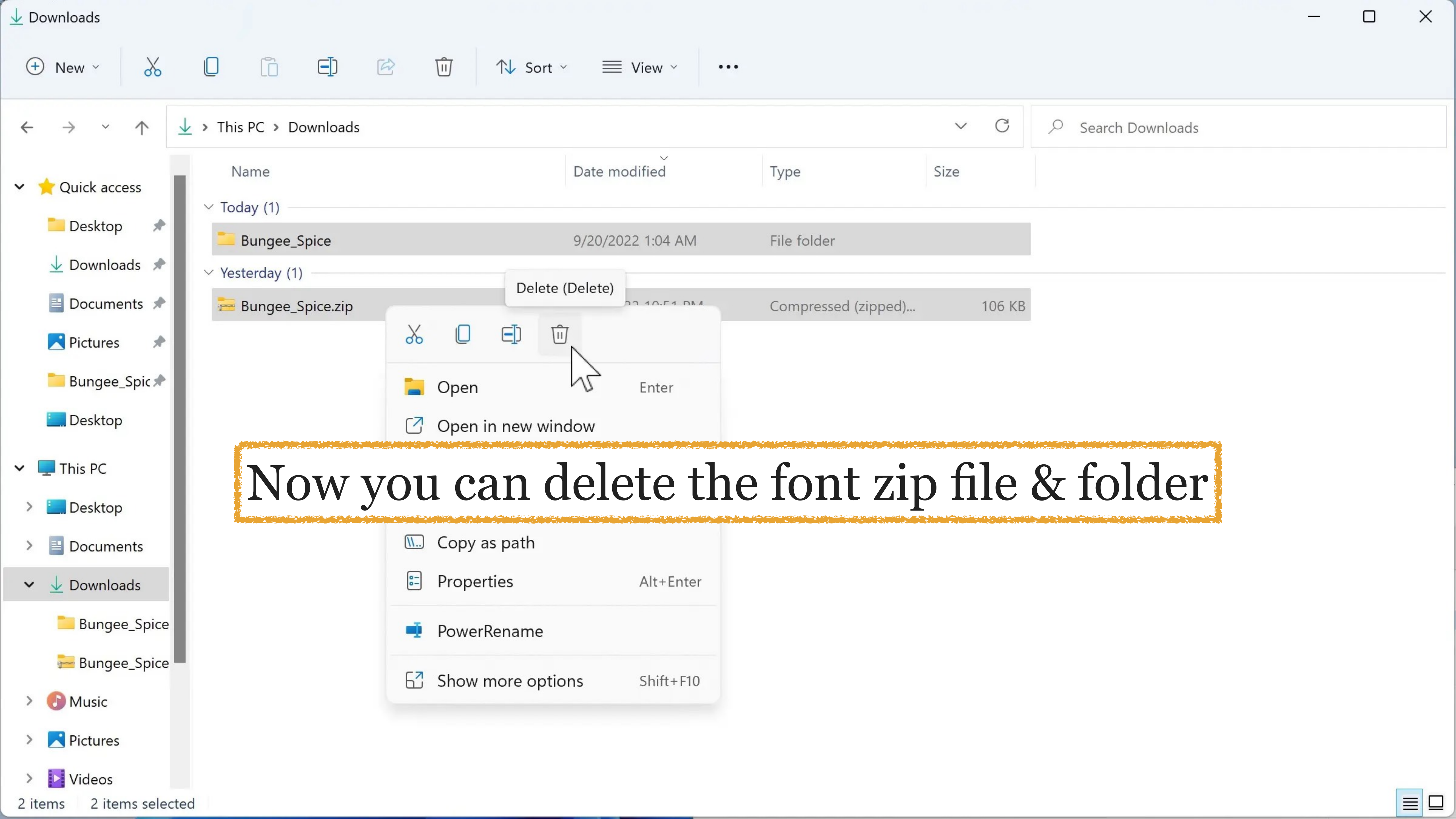
Abg

၂၀၀၀

简体

96 items

Once you're sure it's there (& you really don't *need* to do this step — I just wanted you to see how to find out what fonts you have installed), close the window



Now you can delete the font zip file & folder

Font Properties

font-size

line-height

font-style

font-variant

font-stretch

font-weight

font-family

font-size

6pt	nonpareil	12pt	pica or cicero
7pt	minion	14pt	english or augustin
8pt	brevier or small text	18pt	great primer
9pt	bourgeois or galliard	21pt	double small pica or double pica
10pt	long primer or garamond	24pt	double pica or two-line pica
11pt	small pica or philosophy	36pt	double great primer or 2-line great primer

Traditional point-size names

And finally you will read this

This is the first thing you will read

You will read this afterward

And then you will read this

And finally you will read this

This is the first thing you will read

You will read this afterward

And then you will read this

And finally you will read this

This is the first thing you will read

You will read this afterward

And then you will read this

`font-size`

Sets size of fonts

Values

- » Absolute size keywords
- » Relative size keywords
- » `<length>` data type
- » `<percentage>` data type

Absolute size	Scaling Factor	Percent	HTML <code>h_x</code>
<code>xx-large</code>	2/1	200%	<code><h1></code>
<code>x-large</code>	3/2	150%	<code><h2></code>
<code>large</code>	6/5	120%	<code><h3></code>
<code>medium</code>	1	100%	<code><h4></code> (& <code><p></code>)
<code>small</code>	8/9	89%	<code><h5></code>
<code>x-small</code>	3/4		
<code>xx-small</code>	3/5	60%	<code><h6></code>

Relative size

larger

smaller

<length>

Represents *distance measurements*: a <number> immediately followed by a unit

Units

- » Absolute
- » Relative (font-relative or viewport-percentage)

Absolute *<length>*

px 96 pixels per inch

cm 1 centimeter = $96\text{px}/2.54$

mm 1 millimeter = $1/10$ of 1cm

Q 1 quarter-millimeter = $1/40$ of 1cm

in 1 inch = 2.54 cm = 96px

pc 1 pica = $1/6$ of 1in = 12 pt

pt 1 point = $1/72$ of 1in

My advice

Use **px** where appropriate (that's coming up!)

Use **12pt** when printing because that's the standard
(more on that in *CSS Media-Specific Styles*)

Font-Relative *<length>*

ch

ex

em & rem

cap

ic

lh & rlh

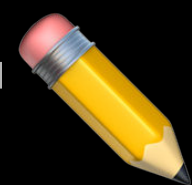
ch

Width (actually, the *advance measure*) of *o* (zero)
character

Only font-relative length based on width instead of height

Great for usage with monospaced fonts

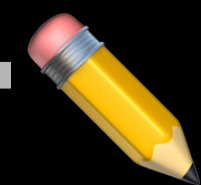
On non-monospaced fonts, 1 ch is 15–30% larger than
the width of other glyphs



SIDE NOTE

The *advance measure* of a glyph is width or height, depending upon the element's inline axis

- » If inline axis of text is horizontal, it's width
- » If vertical, it's height



SIDE NOTE

Advance measure depends upon properties that affect glyph orientation

- » `direction: ltr` or `direction: rtl`
- » `writing-mode`: specifies if lines of text are laid out horizontally or vertically
- » `text-orientation`: orientation of text characters in a line, but only if `writing-mode` is vertical
- » `font-size`, `font-stretch`, `font-variant`, etc.
- » `text-transform`: `capitalize`, `uppercase`, `lowercase`, `full-width`

HTML

1

2

<p>

3

At noon he walked through the one broad high street of Nir, which he had once visited and which marked his farthest former travels in this direction; and soon afterward he came to the great stone bridge across the Skai, into whose central piece the masons had sealed a living human sacrifice when they built it thirteen-hundred years before.

CSS

1

img {

2

float: left;

3

margin: .5ch 1ch .5ch 0;

4

}

5

JS



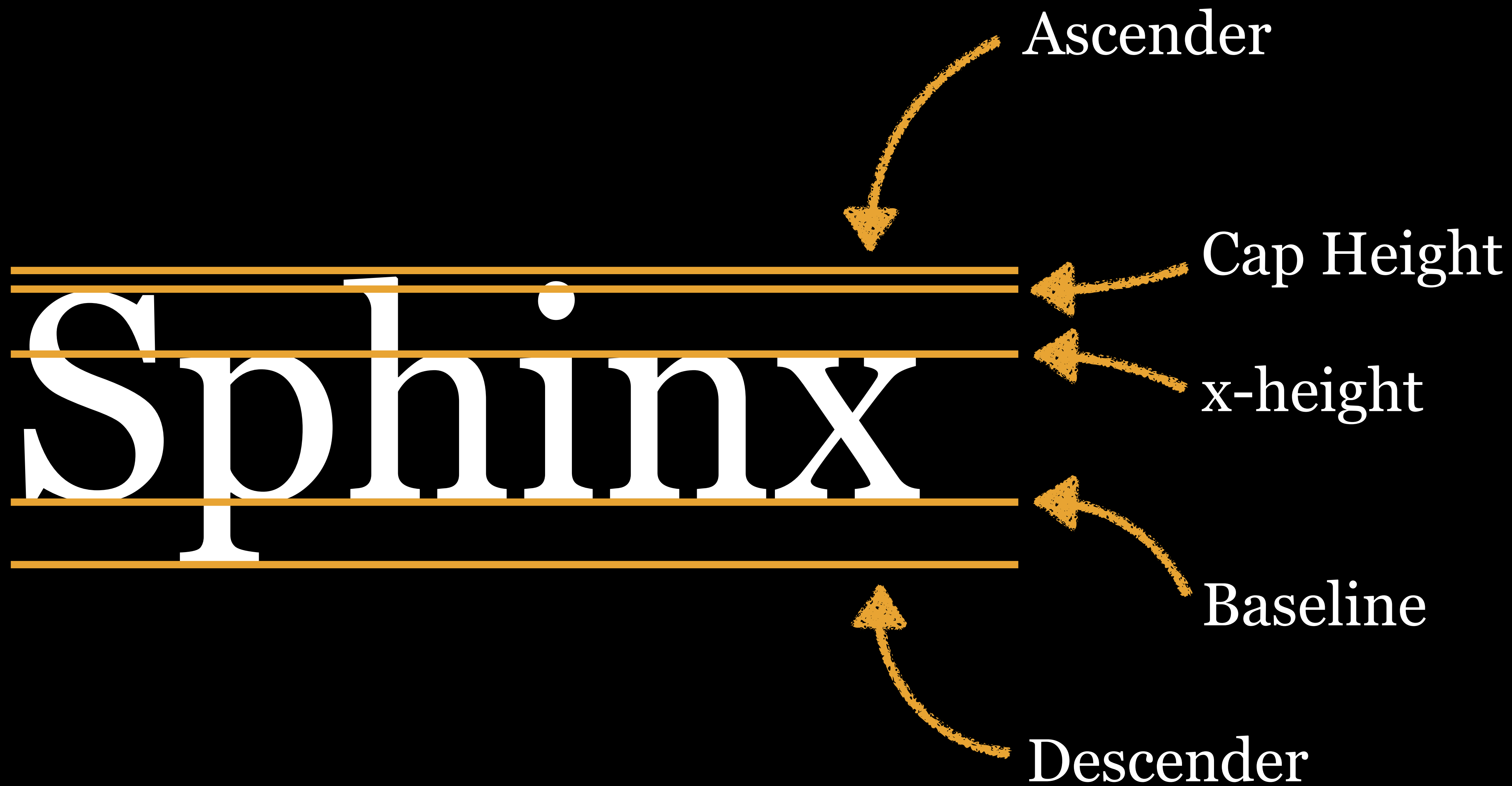
At noon he walked through the one broad high street of Nir, which he had once visited and which marked his farthest former travels in this direction; and soon afterward he came to the great stone bridge across the Skai, into whose central piece the masons had sealed a living human sacrifice when they built it thirteen-hundred years before. Once on the other side, the frequent presence of cats (who all arched their backs at the trailing Zoogs) revealed the near neighborhood of Ulthar; for in Ulthar, according to an ancient and significant law, no man may kill a cat. Very pleasant were the suburbs of Ulthar, with their little green cottages and neatly fenced farms; and still pleasanter was the quaint town itself, with its old peaked roofs and overhanging upper stories and numberless chimney-pots and narrow hill streets where one can see old cobbles whenever the graceful cats afford space enough.

If 0 cannot be measured, it is assumed to be 0.5em wide
by 1em tall

ex

x-height of font

If **x** cannot be measured, it is assumed to be 0.5em



em

Originally width of capital M

Now the *calculated font-size* of an element

1 em is the height of a font, so if your font is set to be 16px tall, then $1\text{ em} = 16\text{ px}$


```
HTML
2 <h2>em units are parent-
  relative</h2>
3 <ul class="parent-relative">
4   <li>Foo</li>
5   <li>Bar
6     <ul>
7       <li>Baz
8         <ul>
9           <li>Qaz</li>
10          <li>Tub</li>
11        </ul>
12      </li>
13      <li>Alf</li>
14    </ul>
15  </li>

CSS
1 .parent-relative li {
2   font-size: .8em;
3 }
4
5 .root-relative li {
6   font-size: .8rem;
7 }
8

JS
```

em units are parent-relative

- Foo
- Bar
 - Baz
 - Qaz
 - Tub
 - Alf
- Pru

rem units are root-relative

- Foo
- Bar
 - Baz
 - Qaz
 - Tub
 - Alf
- Pru

em sizing is compounded!

rem

Font-size of the *root element* (<html>)

Great for creating perfectly scalable layouts

HTML

```
21 <h2>rem units are root-  
    relative</h2>  
22 <ul class="root-relative">  
23   <li>Foo</li>  
24   <li>Bar  
25     <ul>  
26       <li>Baz  
27         <ul>  
28           <li>Qaz</li>  
29           <li>Tub</li>  
30         </ul>  
31       </li>  
32       <li>Alf</li>  
33     </ul>
```

CSS

```
1 .parent-relative li {  
2   font-size: .8em;  
3 }  
4  
5 .root-relative li {  
6   font-size: .8rem;  
7 }  
8
```

JS

em units are parent-relative

- Foo
- Bar
 - Baz
 - Qaz
 - Tub
 - Alf
- Pru

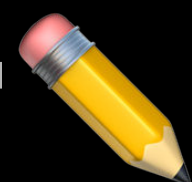
rem units are root-relative

- Foo
- Bar
 - Baz
 - Qaz
 - Tub
 - Alf
- Pru



cap

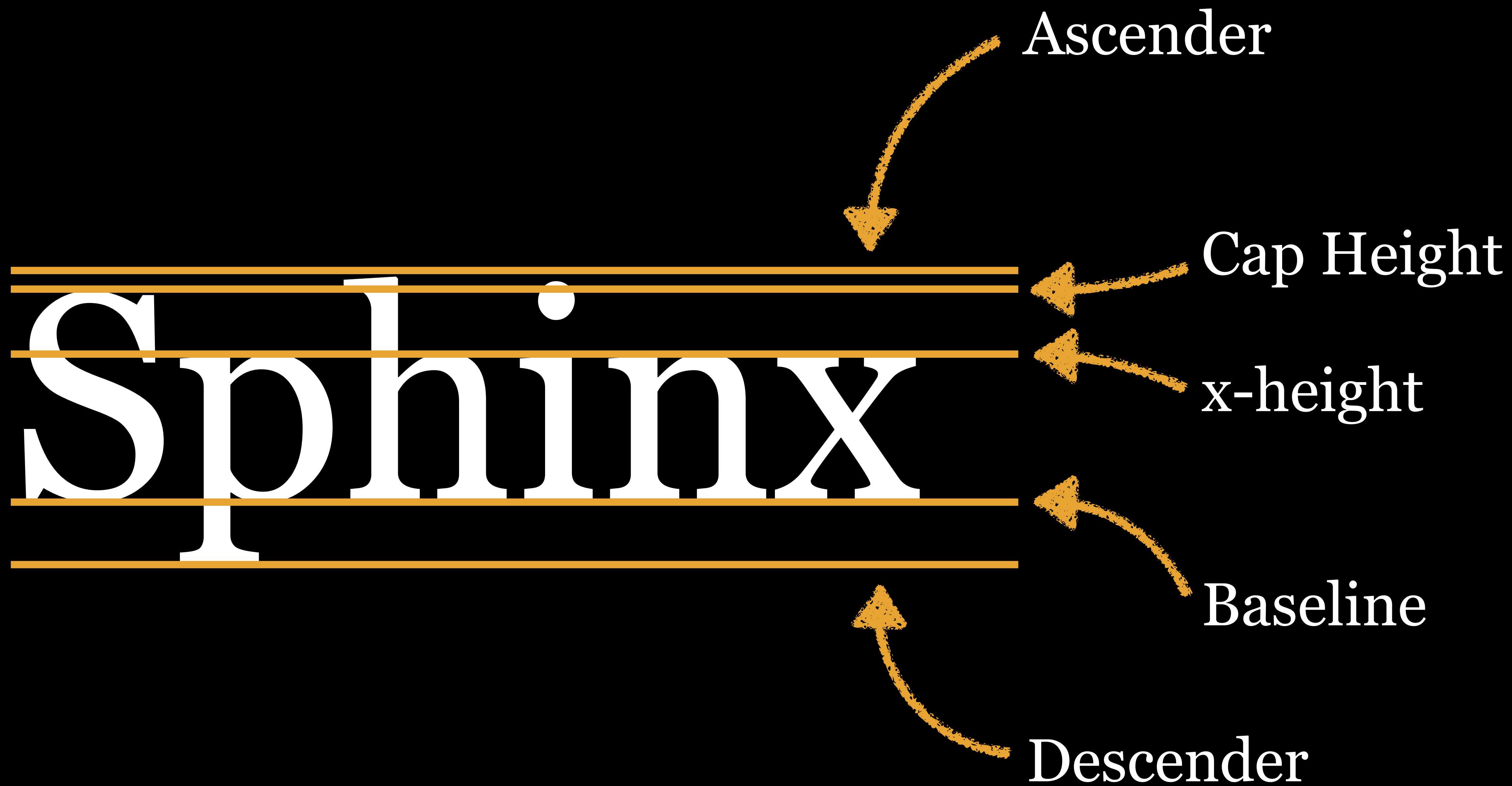
Equals the *cap-height of the font* (height of capital letters)



SIDE NOTE

What if the font doesn't contain Latin characters?
The rendering engine can still figure out a cap-height by progressing through the following list

1. Look in the font's metadata
2. Look at the height of an uppercase glyph
3. If it's still not clear, use the font's ascender



ic

Ideograph count representing the *advance measure* of the CJK ideograph for water: 水

If inline axis of text is horizontal, ic is width; if vertical, ic is height

Eastern equivalent of ch

lh




Computed value of line-height property of the element

rlh

Computed value of line-height property on the root element, `<html>`

					ios		
ch	9	12	4	7	7.1	27	4.4
ex	5.5	12	1	1	1	1	1
em	5.5	12	1	1	1	1	1
rem	9	12	3.6	4.1	4	4	2.1



					ios		
cap	—	—	97	—	—	—	—
ic	—	—	97	15.4	15.4	—	—
lh	—	—	—	—	—	—	—
rlh	—	—	—	—	—	—	—

Viewport-Percentage <length>

vh 1% of the viewport's height

vw 1% of the viewport's width

vmin 1% of **vh** or **vw** — whichever is smaller

vmax 1% of **vh** or **vw** — whichever is larger

The only one to worry about for typography is `vw` if you'd like to scale your font along with the size of the screen

This was covered earlier in *CSS Data Types*

vi 1% of the initial containing block, in the direction of the root element's *inline* axis

vb 1% of the initial containing block, in the direction of the root element's *block* axis

`<percentage>`

Relative to calculated font size

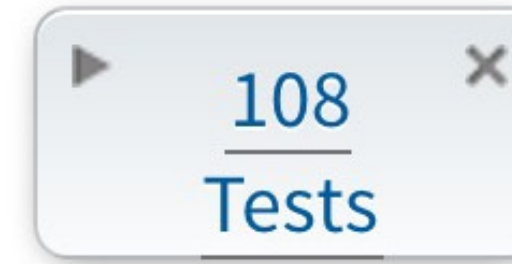
150%

Similar to `em` — `1.2em` is equivalent to 120%

`<percentage>` is ambiguous — whenever possible, use another, less ambiguous alternative

CSS Values and Units Module Level 3

Editor's Draft, 24 September 2018



► Specification Metadata

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Abstract

This CSS module describes the common values and units that CSS properties accept and the syntax used for describing them in CSS property definitions.

CSS is a language for describing the rendering of structured documents (such as HTML and XML) on screen, on paper, etc.

Status of this document

This is a public copy of the editors' draft. It is provided for discussion only and may change at any moment. Its publication here does not imply endorsement of its contents by W3C. Don't cite this document other than as work in progress.

For more on `<length>` & other units...

Our recommendation

`px` for `<html>`

`rem` for regions (sectioning elements like `<aside>` & `<div>`) in which you want all the text to zoom uniformly

`em` for actual text elements (`<h2>` & `<p>`) & non-inherited properties (e.g., `margin` & `padding`)


```

25 </p>
26 </section>
27 <aside>
28 <h1>Heading Level 1 Lorem Ipsum</h1>
29 <p>
30 Lorem ipsum dolor sit amet, per
    choro veritus forensibus ut. Ea vel
    autem salutatus. Pro in dico vitae
    audire. In case ipsum aeterno vel,
    ex vis dico audiam. Eirmod legimus
    ut per, ut vim clita primis.
31 </p>
32 <h2>Heading Level 2 Lorem Ipsum</h2>
33 <p>
34 Lorem ipsum dolor sit amet, per
    choro veritus forensibus ut. Ea vel
    autem salutatus. Pro in dico vitae
    audire. In case ipsum aeterno vel,
    ex vis dico audiam. Eirmod legimus
    ut per, ut vim clita primis.
35 </p>
36 <h3>Heading Level 3 Lorem Ipsum</h3>
37 <p>
38 Lorem ipsum dolor sit amet, per
    choro veritus forensibus ut. Ea vel
    autem salutatus. Pro in dico vitae
    audire. In case ipsum aeterno vel,

```

Heading Level 1 Lorem Ipsum

Lorem ipsum dolor sit amet, per choro veritus forensibus ut. Ea vel autem salutatus. Pro in dico vitae audire. In case ipsum aeterno vel, ex vis dico audiam. Eirmod legimus ut per, ut vim clita primis.

Heading Level 2 Lorem Ipsum

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Heading Level 3 Lorem Ipsum

Lorem ipsum dolor sit amet, per choro veritus forensibus ut. Ea vel autem salutatus. Pro in dico vitae audire. In case ipsum aeterno vel, ex vis dico audiam. Eirmod legimus ut per, ut vim clita primis.

Heading Level 4 Lorem Ipsum

Lorem ipsum dolor sit amet, per choro veritus forensibus ut. Ea vel autem salutatus. Pro in dico vitae audire. In case ipsum aeterno vel, ex vis dico audiam. Eirmod legimus ut per, ut vim clita primis.

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⚙ HTML

⚙ CSS

1 /* Root font size set in pixels */
2 html {
3 font: 16px/1.3 "Lucida Grande", sans-serif;
4 }
5
6 /* Adjust text size in regions using rem */
7 aside {
8 font-size: .9rem;
9 }
10
11 /* Set text sizes using em */
12 h1, h2, h3, h4, h5, h6 {
13 font-family: Georgia, serif;
14 }
15 h1 {
16 font-size: 2em;
17 }
18 h2 {
19 font-size: 1.5em;
20 }
21 h3 {
22 font-size: 1.2em;
23 }
24 h4 {
25 font-size: 1em;
⚙ JS

👁 🔍 ↺ ↻

Let's break
this down



Heading Level 1 Lorem Ipsum

Lorem ipsum dolor sit amet, per choro veritus forensibus ut. Ea vel autem salutatus. Pro in dico vitae audire. In case ipsum aeterno vel, ex vis dico audiam. Eirmod legimus ut per, ut vim clita primis.

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⚙ HTML

⚙ CSS

⚙ JS

```
1  /* Root font size set in pixels */
2  html {
3    font: 16px/1.3 "Lucida Grande", sans-
4    serif;
5  }
6  /* Adjust text size in regions using
7  rem */
8  aside {
9    font-size: .9rem;
10 }
11 /* Set text sizes using em */
12 h1, h2, h3, h4, h5, h6 {
13   font-family: Georgia, serif;
14 }
15 h1 {
16   font-size: 2em;
17 }
18 h2 {
19   font-size: 1.5em;
20 }
21 h3 {
22   font-size: 1.2em;
23 }
24 h4 {
25   font-size: 1em;
```

Heading Level 1 Lorem Ipsum

Lorem ipsum dolor sit amet, per choro veritus forensibus ut. Ea vel autem salutatus. Pro in dico vitae audire. In case ipsum aeterno vel, ex vis dico audiam. Eirmod legimus ut per, ut vim clita primis.

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Heading Level 3 Lorem Ipsum

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Lorem ipsum dolor sit amet, per choro veritus forensibus ut. Ea vel autem salutatus. Pro in dico vitae audire. In case ipsum aeterno vel, ex vis dico audiam. Eirmod legimus ut per, ut vim clita primis.

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Heading Level 2 Lorem Ipsum

Lorem ipsum dolor sit amet, per choro veritus forensibus ut. Ea vel autem salutatus. Pro in dico vitae audire. In case ipsum aeterno vel, ex vis dico audiam. Eirmod legimus ut per, ut vim clita primis.

Heading Level 3 Lorem Ipsum

Lorem ipsum dolor sit amet, per choro veritus forensibus ut. Ea vel autem salutatus. Pro in dico vitae audire. In case ipsum aeterno vel, ex vis dico

HTML

CSS

1 /* Root font size set in pixels */

2 html {

3 font: 16px/1.3 "Lucida Grande", sans-serif;

4 }

5

6 /* Adjust text size in regions using rem */

7 aside {

8 font-size: .9rem;

9 }

10

11 /* Set text sizes using em */

12 h1, h2, h3, h4, h5, h6 {

13 font-family: Georgia, serif;

14 }

15 h1 {

16 font-size: 2em;

17 }

18 h2 {

19 font-size: 1.5em;

20 }

21 h3 {

22 font-size: 1.2em;

23 }

24 h4 {

25 font-size: 1em;

JS

No font-size for <section>?

We're using the default!

Heading Level 1 Lorem Ipsum

Lorem ipsum dolor sit amet, per choro veritus forensibus ut. Ea vel autem salutatus. Pro in dico vitae audire. In case ipsum aeterno vel, ex vis dico audiam. Eirmod legimus ut per, ut vim clita primis.

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Lorem ipsum dolor sit amet, per choro veritus forensibus ut. Ea vel autem salutatus. Pro in dico vitae audire. In case ipsum aeterno vel, ex vis dico audiam. Eirmod legimus ut per, ut vim clita primis.

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Heading Level 4 Lorem Ipsum

Lorem ipsum dolor sit amet, per choro veritus forensibus ut. Ea vel autem salutatus. Pro in dico vitae audire. In case ipsum aeterno vel, ex vis dico audiam. Eirmod legimus ut per, ut vim clita primis.

Heading Level 1 Lorem Ipsum

Lorem ipsum dolor sit amet, per choro veritus forensibus ut. Ea vel autem salutatus. Pro in dico vitae audire. In case ipsum aeterno vel, ex vis dico audiam. Eirmod legimus ut per, ut vim clita primis.

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⚙ HTML

⚙ CSS

👁

⌵ ⌵

```
1  /* Root font size set in pixels */
2  html {
3    font: 16px/1.3 "Lucida Grande", sans-serif;
4  }
5
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12 h1, h2, h3, h4, h5, h6 {
13   font-family: Georgia, serif;
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15 h1 {
16   font-size: 2em;
17 }
18 h2 {
19   font-size: 1.5em;
20 }
21 h3 {
22   font-size: 1.2em;
23 }
24 h4 {
25   font-size: 1em;
26 }
```

Heading Level 1 Lorem Ipsum

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CSS

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9 }
10
11 /* Set text sizes using em */
12 h1, h2, h3, h4, h5, h6 {
13   font-family: Georgia, serif;
14 }
15 h1 {
16   font-size: 2em;
17 }
18 h2 {
19   font-size: 1.5em;
20 }
21 h3 {
22   font-size: 1.2em;
23 }
24 h4 {
25   font-size: 1em;
26 }
```

Heading Level 1 Lorem Ipsum

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line-height

line-height

Specifies the *minimal height of line boxes* within block box elements

Values

- » **normal**: Desktop browsers use a default value of roughly 1.2
- » **<number>**: unitless number (e.g., 1.4) is the preferred method
- » **<length>**: **em** in particular may be problematic
- » **<percentage>**: may be very problematic


```
HTML
5 </p>
6 <p class="lh-14">
7   <i>The Shadow Over Innsmouth</i>
  (line-height: 1.4): All at once I
  began dreading to look at them as
  they passed. I saw the close
  moonlit space where they would
  surge by, and had curious thoughts
  about the irredeemable pollution of
  that space.
8 </p>
9 <p class="lh-16">
10  <i>The Call of Cthulhu</i> (line-
  height: 1.6): He talked of his
  dreams in a strangely poetic
CSS
9 .lh-14 {
10   line-height: 1.4;
11 }
12
13 .lh-16 {
14   line-height: 1.6;
15 }
JS
```

From Beyond (line-height: 1): “Do you know what that is?” he whispered, “That is ultra-violet.” He chuckled oddly at my surprise. “You thought ultra-violet was invisible, and so it is — but you can see that and many other invisible things now.”

The Dunwich Horror (line-height: 1.2): There was a brief silence, and in that pause the scattered senses of poor Curtis Whateley began to knit back into a sort of continuity; so that he put his hands to his head with a moan. Memory seemed to pick itself up where it had left off, and the horror of the sight that had prostrated him burst in upon him again.

The Shadow Over Innsmouth (line-height: 1.4): All at once I began dreading to look at them as they passed. I saw the close moonlit space where they would surge by, and had curious thoughts about the irredeemable pollution of that space.

The Call of Cthulhu (line-height: 1.6): He talked of his dreams in a strangely poetic fashion; making me see with terrible vividness the damp Cyclopean city of slimy green stone — whose *geometry*, he oddly said, was *all wrong* — and hear with frightened expectancy the ceaseless, half-mental calling from underground: “*Cthulhu fhtagn*”,

font-style

font-style

Selects *italic or oblique* face for the selected font

Values

- » **italic**: Specially designed by typographers to complement the upright (*roman*) font
- » **oblique**: Slanted version of the roman font (ugly, so avoid)
- » **normal**: Not italic or oblique

Italic typefaces...

- » are usually cursive in nature
- » use less horizontal space than their unstyled counterparts
- » are specifically created by the typographer so they look different from their upright versions

Oblique typefaces usually do not involve any character substitution at all

If `font-style: italic` is chosen & is not available, an *oblique* version is used instead

If `font-style: oblique` is chosen & is not available, an *italic* version is used instead

If neither italic or oblique version is available, the computer *dynamically create an oblique font by slanting* the roman font, which looks hideous


```
HTML
1 <h2>
2   Italic
3 </h2>
4 <p>
5   Italic (not oblique)
   fonts are specially
   designed by
   typographers to
   complement the upright
   (<i>roman</i>) font.

CSS
1 .italic {
2   font-style: italic;
3 }
4
5 .ssp {
6   font-family: "Source
   Serif Pro", Adamina;
7 }
8
9 .oblique {
10  font-style: oblique;
11 }

JS
```

Italic

Italic (not oblique) fonts are specially designed by typographers to complement the upright (*roman*) font.

Iowan Old Style (or Georgia, if you don't have it) has a very nice italic.

Iowan Old Style (or Georgia, if you don't have it) has a very nice italic, as you can see.

Oblique

Oblique (not italic) fonts are just slanted versions of the upright (*roman*) font.

Source Serif Pro (or Adamina, if you don't have it) does not have an italic font.

Source Serif Pro (or Adamina, if you don't have it) does not have an italic font, so this is oblique.

font-variant

`font-variant`

Changed between CSS 2 & CSS 3

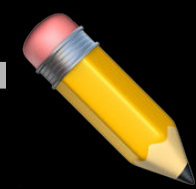
In CSS 2, selects *normal or small cap letters* for lower case characters

In CSS3, it still supports what it does in CSS 2, but it is also *shorthand for several longhand properties*

Values for `font-variant`:

- » `normal`: Normal glyphs (default)
- » `small-caps`: Small capital letters specially designed by the typographer; if none exist, browser just reduces capital letters, which is ugly

Georgia Pro	normal	Charles Dexter Ward
	small-caps	CHARLES DEXTER WARD
Calibri	normal	Charles Dexter Ward
	small-caps	CHARLES DEXTER WARD
Hoefler Text	normal	Charles Dexter Ward
	small-caps	CHARLES DEXTER WARD



SIDE NOTE

On Google Fonts, you can use Spectral as a standard serif typeface & Spectral SC for small caps

`font-variant` CSS3 values are shorthand for these longhand properties:

- » `font-variant-caps`
- » `font-variant-numeric`
- » `font-variant-alternates`
- » `font-variant-ligatures`
- » `font-variant-east-asian`

font-variant-caps

Alternate versions of small capital letters specially designed by the typographer

Normally *small capitals* are **1ex**, the height of the **x** in the typeface, but they may be taller

Petite capitals are always **1ex**; in which case, small caps are the larger variant

Titling capitals are designed for headings & titles, with reduced stroke widths

Values for `font-variant-caps`

- » `normal`: no small caps
- » `small-caps`: use small capitals
- » `all-small-caps`: use small capitals for upper & lowercase letters
- » `petite-caps`: use petite capitals
- » `all-petite-caps`: use petite capitals for upper & lowercase letters
- » `unicase`: use small capitals for uppercase letters & normal lowercase letters
- » `titling-caps`: use titling capitals

font-variant-numeric

Alternate versions of numbers, fractions, & ordinal markers specially designed by the typographer

Alternate fractions would be $\frac{1}{4}$ & $\frac{3}{4}$ instead of $\frac{1}{4}$ & $\frac{3}{4}$

Alternate ordinals would be 1st & 3rd instead of 1st & 3rd

Values for `font-variant-numeric`:

- » `normal`: no alternate numbers, fractions, & ordinals
- » `ordinal`: use ordinal markers, like 1st & 3rd
- » `slashed-zero`: use 0 with a slash, e.g., ∅
- » `<numeric-figure-values>`: use lining or old style numbers
- » `<numeric-spacing-values>`: use numbers that are or are not the same size, e.g., 12345 or 12345
- » `<numeric-fraction-values>`: use a / or a — between numerators & denominators, e.g., 1/4 or $\frac{1}{4}$

<numeric-figure-values>: use lining (`lining-nums`) or old style numbers (`oldstyle-nums`)

<numeric-spacing-values>: use numbers that are the same size (`tabular-nums`) or are not the same size (`proportional-nums`)

<numeric-fraction-values>: use a / (`diagonal-fractions`) or a — (`stacked-fractions`) between numerators & denominators

font-variant-alternates

Alternate glyphs, such as swashes, ornaments, or annotations

Values for `font-variant-alternates`:

- » `normal`: deactivates alternate glyphs
- » `historical-forms`: enables formerly common glyphs not widely used today, e.g., **Profeffor Aſtwood**
- » `stylistic()`: stylistic alternates for individual characters
- » `styleset()`: stylistic alternatives for sets of characters
- » `character-variant()`: specific stylistic alternatives for characters
- » `ornaments()`: ornaments, e.g., ❖
- » `annotation()`: annotations, e.g., like ② or **ⓂⓅⓁ** (inverted)
- » `swash()`: swash glyphs, e.g., *Quayagen Quayagen Quayagen*

`font-variant-ligatures`

Ligatures & contextual forms

Ligatures combine 2 or more letters into a single glyph

Without ligatures

office

floor

Thus

stairs

loft

archaeology

foetus

With ligatures

office

floor

Thus

ſtairs

loft

archæology

foetus







`font-variant-east-asian`

Alternate glyphs for East Asian scripts like Chinese,
Japanese, & Korean

							
<code>font-variant*</code>	6	12	2	3.1	3.2	4	2.1
<code>font-variant†</code>	—	79	34	9.1	9.3	52	Y

* CSS 2 support for `small-caps` & `normal`

† CSS 3 support as shorthand for other `font-variant-*` properties

font-variant-*					ios		
alternates	—	—	34	9.1	9.3	—	—
caps	—	79	34	—	—	52	Y
east-asian	—	79	34	—	—	63	63
emoji	—	—	—	—	—	—	—
ligatures	—	79	34	9.1	9.3	34	4.4.4
numeric	—	79	34	9.1	9.3	52	Y
position	—	—	34	—	—	—	—

font-stretch

`font-stretch`

Specify *normal*, *condensed*, or *expanded* face for fonts in `@font-face`

Values:

- » keywords
- » percentage between 50% & 200%

50%	ultra-condensed	112.5%	semi-expanded
62.5%	extra-condensed	125%	expanded
75%	condensed	150%	extra-expanded
87.5%	semi-condensed	200%	ultra-expanded
100%	normal		

Keywords correspond to percentages

If a font doesn't exactly matches a value...

- » values $<100\%$ map to a narrower face
- » values $\geq 100\%$ map to a wider face

Keep in mind, the font must have condensed or expanded faces, or `font-stretch` has no effect

Can also use 2 values to specify a range; e.g.,

» 90% 150%

» semi-expanded extra-expanded

💡 PRO TIP

When using `font-stretch` with `@font-face` (more on that in *Embedded Fonts*) with Chrome, you must include `font-stretch` in both `@font-face` and in the rule set; e.g.:

```
@font-face {  
    ...  
    font-stretch: 1% 500%; /* required by Chrome */  
}  
  
.foo {  
    font-stretch: 125%;  
}
```


							
font-stretch	9	12	9	11	–	48	81
<percentage>	–	18	61	11.1	11.3	62	81

As of July 2020

font-weight

font-weight

Specifies the *weight—or boldness*—of the font

Values

- » **100–900**: Numeric weights from lightest to darkest
- » **normal**: Same as **400**
- » **bold**: Same as **700**
- » **bolder**: 1 font weight darker than parent
- » **lighter**: 1 font weight lighter than parent

This assumes the font supports those weights!

Font Name	CSS Value	CSS Keyword
Thin	100	
Extra-light, Ultra-light	200	
Light	300	
Normal, Regular, Book	400	normal
Medium	500	
Semi-bold, Demi-bold	600	
Bold	700	bold
Extra-bold, Ultra-bold	800	
Black, Heavy	900	

A

100

A

200

A

300

A

400

A

500

A

600

A

700

A

800

A

900

Effort affiliate final Lorem ipsum
dolor sit amet, consectetur
adipisici elit, sed do eiusmod
tempor incididunt ut labore et
dolore magna aliqua.

Proxima Nova Regular

Effort affiliate final Lorem
ipsum dolor sit amet,
consectetur adipisicing elit, sed
do eiusmod tempor incididunt
ut labore et dolore magna
aliqua.

Proxima Nova Semibold

**Effort affiliate final Lorem
ipsum dolor sit amet,
consectetur adipiscing elit, sed
do eiusmod tempor incididunt
ut labore et dolore magna
aliqua.**

Proxima Nova Bold

**Effort affiliate final Lorem
ipsum dolor sit amet,
consectetur adipiscing elit, sed
do eiusmod tempor incididunt
ut labore et dolore magna
aliqua.**

Proxima Nova Extrabold

**Effort affiliate final Lorem
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consectetur adipiscing elit, sed
do eiusmod tempor
incididunt ut labore et dolore
magna aliqua.**

Proxima Nova Black

**Effort affiliate final Lorem
ipsum dolor sit amet,
consectetur adipiscing elit, sed
do eiusmod tempor
incididunt ut labore et dolore
magna aliqua.**

font-family

`font-family`

Prioritized list of font family names and/or generic family names for the selected element

Values

- » `<family-name>`: name of a font family, e.g., `Lato` or `"Iowan Old Style"` (quotation marks if spaces!)
- » `<generic-family>`: name of a generic fallback font family

<generic-family> can be:

serif

sans-serif

cursive

fantasy

monospace

font-family: cursive

Savoye LET

Snell Roundhand

Zapfino

font-family: fantasy

Party LET

Chalkduster

Playbill

Jazz LET

Harrington

Font Stacks

List fonts in the order you want them to be used,
from most specific to generic

```
font-family: "DejaVu Serif", Constantia,  
Georgia, serif;
```

With font embedding (coming later!), this list has
gotten shorter

```
font-family: Lato, Verdana, sans-serif;
```


The order:

Ideal, Alternative, Common, Generic

A great rule of thumb

Serifs for headers & sans-serifs for body

OR

Sans-serifs for headers & serifs for body

The Call of Cthulhu- A Lovecraftian Tale



Arnold Khan [Follow](#)

Apr 29 · 5 min read ★



A hidden and forgotten research. Mysterious links to dreams and rituals. An interconnecting tale to the rise of an ancient one. A journey to the very edge of the Earth. Another great Lovecraft story. One of his most well-known material.

Great Uncle's Death and Notes

My uncle passed away. He was 92. He was a leading archaeologist or paleontologist. An eminent professor. I was cleaning up his room, when I came across some archival material. It turned out to be a research of a global phenomenon, analysing rituals of various tribes and customs.

“Bird Box” taps into a Lovecraftian horror tradition rising from the deep

January 9, 2019



By **Adam Epstein**
Entertainment reporter

Last month, Netflix [claimed](#) that 45 million people had watched its horror-thriller *Bird Box*. Yesterday Nielsen confirmed that the film is indeed a hit: 26 million people in the US alone [watched *Bird Box*](#) in the week after its Dec. 21 release, according to the audience measurement firm. That’s nearly the number of Americans who [bought a ticket](#) to see *Aquaman*, one of the highest-grossing films of 2018.

The 6-Foot Rule Will Guide Architects in a Post-Covid World

Past pandemics also forced a rethinking of physical space.

By Kristen V Brown

July 17, 2020, 10:00 AM UTC

Six feet. As Covid-19 has torn through the world, that distance has come to define daily life. Six feet is how far we stand from other shoppers or the space we try to maintain while catching up with a friend.

It's painfully clear that our world has been constructed for a reality that no longer exists. Crowded subway cars, packed restaurants, and bustling sidewalks all pose a threat every time someone nearby sneezes, talks, or even just breathes.

The 6-Foot Rule Will Guide Architects in a Post-Covid World

BW Haas Grotesk Web 75 Bold

Past pandemics also forced a rethinking of physical space.

By Kristen V Brown

July 17, 2020, 10:00 AM UTC

BW Haas Grotesk Web 55 Roman

Six feet. As Covid-19 has torn through the world, that distance has come to define daily life. Six feet is how far we stand from other shoppers or the space we try to maintain while catching up with a friend.

It's painfully clear that our world has been constructed for a reality that no longer exists: packed restaurants, and bustling streets that pose a health threat every time someone nearby sneezes, talks, or even just breathes.

Publico Text Web Roman

COMMENT JULY 27, 2020 ISSUE

JOHN LEWIS'S LEGACY AND AMERICA'S REDEMPTION

The civil-rights leader, who died Friday, acknowledged the darkest chapters of the country's history, yet insisted that change was always possible.



By David Remnick

July 18, 2020

John Robert Lewis was born in 1940 near the Black Belt town of Troy, Alabama. His parents were sharecroppers, and he grew up spending Sundays with a great-grandfather who was born into slavery, and hearing about the lynchings of Black men and women that were still a commonplace in the region. When Lewis was a few months old, the manager of a chicken farm named Jesse Thornton was lynched about twenty miles down the road, in the town of Luverne. His offense was referring to a police officer by his first

COMMENT JULY 27, 2020 ISSUE

IRVINHEADINGWEB

JOHN LEWIS'S LEGACY AND AMERICA'S REDEMPTION

*The civil-rights leader, a
country's history, yet insis*

Neutraface New Yorker Web SemiBold



By David Remnick
July 18, 2020

Graphik

John Robert Lewis was born in 1940 near the Black Belt town of Troy, Alabama. His parents were sharecroppers, and he grew up spending Sundays with a great-grandfather who was born into slavery, and hearing about the lynchings of Black men and women that were still a commonplace in the region. When Lewis was a few months old, the manager of a chicken farm named Jesse Thornton was lynched about twenty miles down the road, in the town of Luverne. His offense was referring to a police officer by his first

TNYAdobeCaslonPro

Narrow sans-serif header font stack

And in the past few years, bands themselves have gone
releasing official live recordings.

Behind the music

I love concerts. Sitting (or more often, standing) with
of like-minded people and listening to a small slice of

Marco Arment's The Magazine

"Avenir Next Condensed", "Helvetica Neue
Condensed", "Arial Narrow", Avenir, "Helvetica
Neue", sans-serif;

Wide serif body font stack

I love concerts. Sitting (or more often, standing) with hundreds or thousands of like-minded people and listening to a small slice of music history has always excited me. Recordings of live shows are obviously not the same, but they do give me similar pleasure. There's just something ineffable about hearing a band as they were on a particular date, warts and all, including the stage banter, flubs, and musical selection.

Marco Arment's The Magazine

"Minion Pro", Georgia, serif;

Native Font Stacks

Bootstrap & others are moving toward *native font stacks*

```
font-family: system-ui, -apple-system, "Segoe UI", Roboto, "Helvetica Neue", "Noto Sans", "Liberation Sans", Arial, sans-serif, "Apple Color Emoji", "Segoe UI Emoji", "Segoe UI Symbol", "Noto Color Emoji";
```

Let's break that down...

Bootstrap 5.2.2 native font stack

```
font-family: system-ui, /* Cross-platform default */  
  -apple-system, /* Safari on 🍏 (San Francisco) */  
  "Segoe UI", /* 🏠 */  
  Roboto, /* 🤖 */  
  "Helvetica Neue" /* Older 🍏 */  
  "Noto Sans", "Liberation Sans", /* 🐧 */  
  Arial, /* Basic fallback */  
  sans-serif, /* Generic fallback */  
  "Apple Color Emoji", "Segoe UI Emoji", "Segoe UI  
Symbol", "Noto Color Emoji"; /* Emoji */
```




rsgranne / system-fonts.css

Last active 4 minutes ago

Edit

Delete

Unsubscribe

Star

0

<> Code

Revisions 2

Embed

<script src="http



Download ZIP

system-fonts.css

Raw

```
1 font-family: -apple-system, BlinkMacSystemFont, "Segoe UI", Roboto, "Helvetica
```



Write

Preview

H B I ≡ <> 🔗 ≡ ≡ ☑ @ ↗

Leave a

If you want to copy that font stack for your use, here's a link: chnsa.ws/24i

Attach file



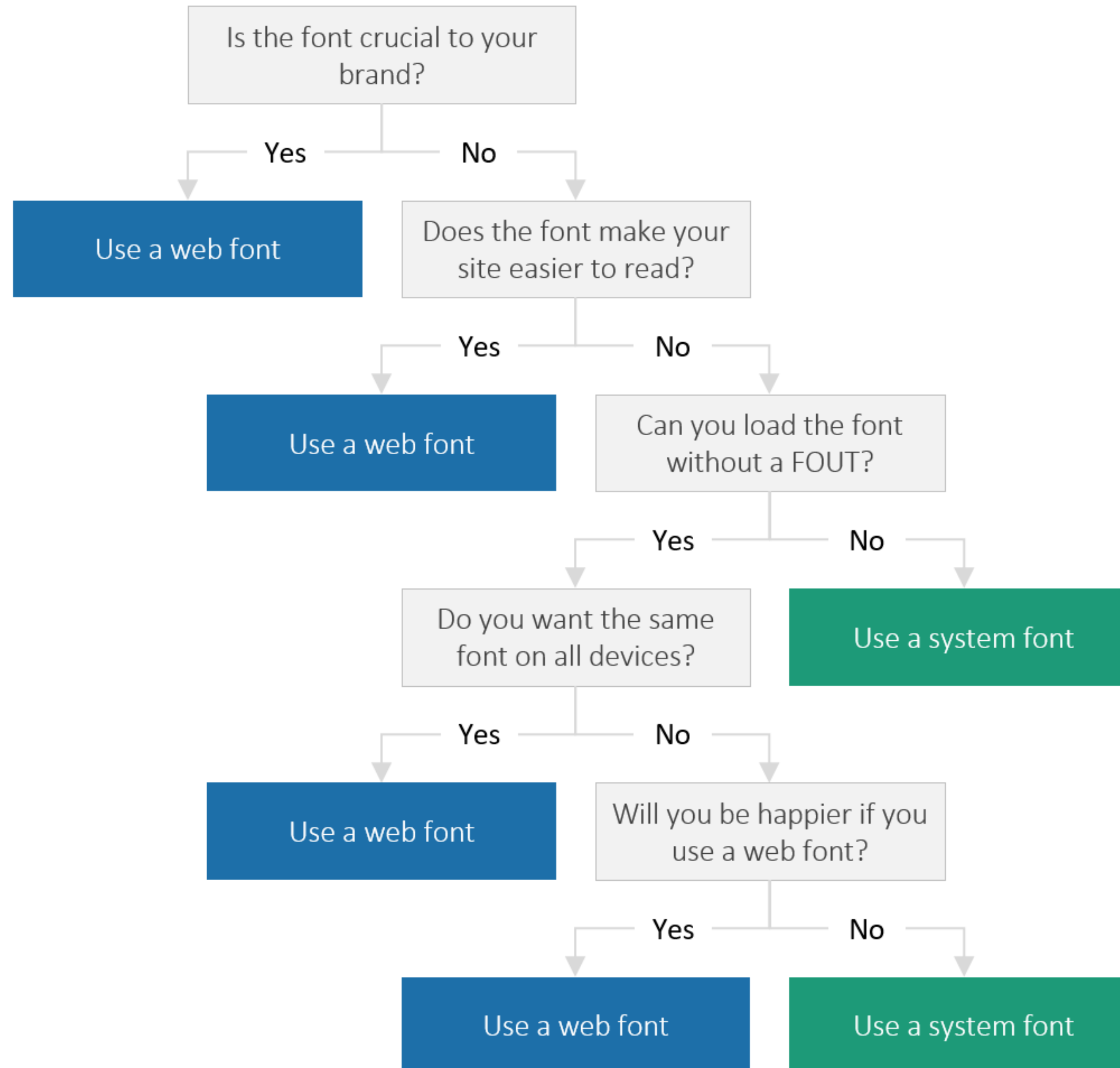
Comment



GitHub native font stack

```
font-family: -apple-system,  
BlinkMacSystemFont, "Segoe UI", "Noto Sans",  
Helvetica, Arial, sans-serif, "Apple Color  
Emoji", "Segoe UI Emoji"
```

Should I use a web font?



Text Properties

color

text-shadow

letter-spacing

word-spacing

text-decoration

text-decoration-skip-
ink

text-transform

text-indent

hanging-punctuation

white-space

word-break

direction

overflow-wrap (word-
wrap)

text-overflow

line-clamp

font-size, font-weight, font-family, but also text-decoration, text-transform, & text-indent?

Why the split between font- & text-?

font- defines the *shapes* of typefaces on the screen

text- defines *positioning* or *visual* changes to already-drawn characters, independent of typeface

color

Specifies *foreground color of text* using `<color>` data type

Should really be `text-color`, but it's too late to change now

| Descriptor | Value |
|-----------------------------------|-------------------------------------|
| Keywords | <code>magenta</code> |
| RGB 6-character hexadecimal | <code>#FF0033</code> |
| RGB 3-character hexadecimal | <code>#F03</code> |
| RGB functional notation (integer) | <code>rgb(255,0,51)</code> |
| RGB functional notation (%) | <code>rgb(100%,0%,20%)</code> |
| Red-Green-Blue-Alpha | <code>rgba(255,0,51,0.7)</code> |
| Hue-Saturation-Lightness | <code>hsl(348,100%,50%)</code> |
| Hue-Saturation-Lightness-Alpha | <code>hsla(348,100%,50%,0.7)</code> |

text-shadow

Adds *shadow(s) or glow effects* to text — use sparingly!

Values:

- » `<offset-x>`: `<length>` of shadow's horizontal offset from text
- » `<offset-y>`: `<length>` of shadow's vertical offset from text
- » `<blur-radius>`: `<length>` of blur (optional)
- » `<color>` data type (optional)

Order must always be `<offset-x> <offset-y> <blur-radius>`, where `<blur-radius>` is optional

`<color>` can go before or after, so any of these are valid:

- » `<color> <offset-x> <offset-y> <blur-radius>`
- » `<offset-x> <offset-y> <blur-radius> <color>`
- » `<offset-x> <offset-y> <blur-radius>`
- » `<offset-x> <offset-y> <color>`
- » `<color> <offset-x> <offset-y>`
- » `<offset-x> <offset-y>`

<offset-x> & <offset-y> values are required

- » Specify shadow's distance from text
- » If negative <length> is used, <offset-x> is to left of text & <offset-y> is above text
- » If both are 0, shadow is behind text (may still be seen due to <blur-radius>)

`<blur-radius>` is optional

- » Default is `0` — no blur
- » Larger value makes the blur wider & lighter

`<color>` is optional; if unspecified, the user agent chooses the value

- » Firefox uses the element's `<color>`
- » Safari makes the shadow transparent

You can provide more than one shadow; e.g.:

```
text-shadow: 1px 1px 2px black, 0 0 1em blue,  
0 0 0.2em blue;
```

Multiple shadows are applied in order, from front to back, with first-specified shadow on top

```
HTML
1 R'lyen wgan'nagl fhtagn!
2 </p>
3
4
5 <p class="orange">
6   Ph'nglui mglw'nafh Cthulhu
7   R'lyeh wgah'nagl fhtagn!
8 </p>
9
10 <p class="blue">
11   Ph'nglui mglw'nafh Cthulhu
12   R'lyeh wgah'nagl fhtagn!
13 </p>
```






```
CSS
1 .orange {
2   text-shadow: orange 0 -2px;
3 }
4
5 .blue {
6   text-shadow: 1px 1px 2px black,
7               0 0 1em blue, 0 0 0.2em blue;
8   color: white;
9 }
```

```
JS
```

Ph'nglui mglw'nafh Cthulhu R'lyeh wgah'nagl fhtagn!

Ph'nglui mglw'nafh Cthulhu R'lyeh wgah'nagl fhtagn!

Ph'nglui mglw'nafh Cthulhu R'lyeh wgah'nagl fhtagn!

| | | | | | | |
|-------------|---|---|---|-----|---|---|
| |  |  |  | iOS |  |  |
| text-shadow | 10 | 3.5 | 4 | 3.2 | 4 | 2.1 |

letter-spacing

Add additional *spacing between adjacent characters*
(like part of *kerning*)

word-spacing

Add additional *spacing between words*

Do not use either property, as browser support is poor
& the effects are crude & ugly

text-decoration

Insert or remove lines above, below, & through text

Values

- » **underline**: draws a line under text (do not use)
- » **overline**: draws a line above text
- » **underline overline**: draws lines under & above text
- » **line-through**: draws line through text (like **<s>**)
- » **none**: removes lines (from **<a>** in particular, but be careful with this!)

⚙ HTML

⚙ CSS

1 .under {
2 text-decoration: underline;
3 }
4
5 .over {
6 text-decoration: overline;
7 }
8
9 .underover {
10 text-decoration: underline overline;
11 }
12
13 .strike {
14 text-decoration: line-through;
15 }
16
17 .none {
18 text-decoration: none;
19 }
20
21 /* Uninteresting stuff below here */
22
23 html {
24 font-size: 24px;
25 font-family: "Iowan Old Style",
26 Georgia, serif;
27 }

⚙ JS

underline

Ph'nglui mglw'nafh Cthulhu R'lyeh wgah'nagl fhtagn!

overline

Ph'nglui mglw'nafh Cthulhu R'lyeh wgah'nagl fhtagn!

underline overline

Ph'nglui mglw'nafh Cthulhu R'lyeh wgah'nagl fhtagn!

line-through

~~Ph'nglui mglw'nafh Cthulhu R'lyeh wgah'nagl fhtagn!~~

none

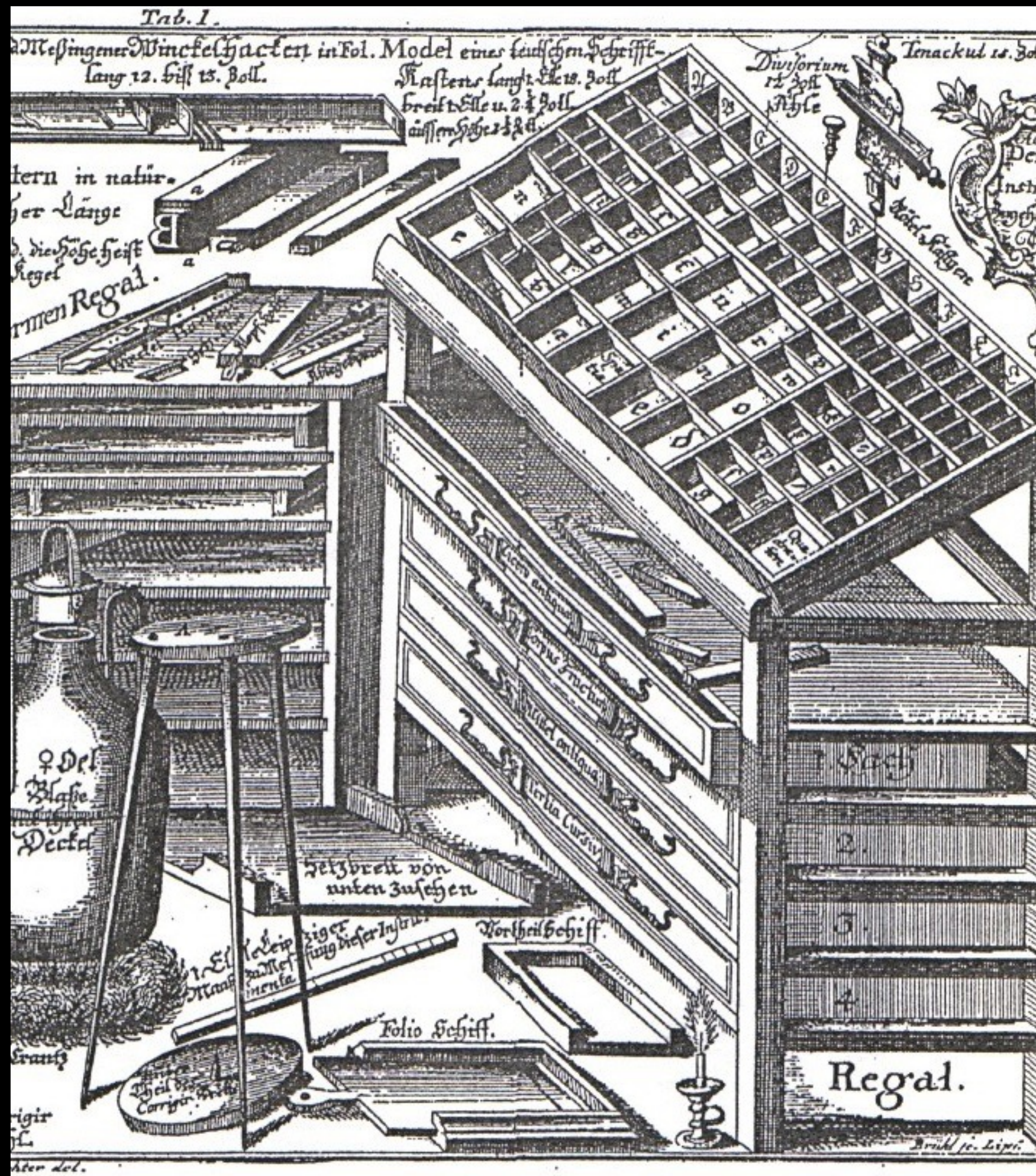
Ph'nglui mglw'nafh Cthulhu R'lyeh wgah'nagl fhtagn!

`text-transform`

Specifies *capitalization*

Values

- » `capitalize`: capitalize every word (headline case)
- » `uppercase`: capitalize every letter (all caps)
- » `lowercase`: lowercase every letter
- » `none`: do not change capitalization



Typesetter's sorting case

Capital letters stored in a separate drawer/case located above the case holding the other letters

Hence *uppercase* & *lowercase*

⚙ HTML

⚙ CSS

⚙ JS

```
1  .cap {
2    text-transform: capitalize;
3  }
4
5  .upper {
6    text-transform: uppercase;
7  }
8
9  .lower {
10   text-transform: lowercase;
11 }
12
13 .none {
14   text-transform: none;
15 }
16
17 /* Uninteresting stuff below here */
18
19 html {
20   font-size: 24px;
21   font-family: "Iowan Old Style",
     Georgia, serif;
22 }
23
24 h3:first-of-type {
25   margin-top: 0;
26 }
```

Default

Ph'nglui mglw'nafh Cthulhu R'lyeh wgah'nagl fhtagn!

capitalize

Ph'nglui Mglw'nafh Cthulhu R'lyeh Wgah'nagl Fhtagn!

uppercase

PH'NGLUI MGLW'NAFH CTHULHU R'LYEH WGAH'NAGL
FHTAGN!

lowercase

ph'nglui mglw'nafh cthulhu r'lyeh wgah'nagl fhtagn!

none

Ph'nglui mglw'nafh Cthulhu R'lyeh wgah'nagl fhtagn!

`text-indent`

Specifies how much horizontal space should be before the beginning of the first line of the text

Values

- » `<length>` data type
- » `<percentage>` data type

⚙ HTML ▾

1 ▾ <p>

2 During the winter of 1927–28 officials of the Federal government made a strange and secret investigation of certain conditions in the ancient Massachusetts seaport of Innsmouth. The public first learned of it in February, when a vast series of raids and arrests occurred, followed by the deliberate burning and dynamiting—under suitable precautions—of an enormous number of crumbling, worm-eaten, and supposedly empty houses along the abandoned waterfront. Uninquiring souls let this occurrence pass as one

⚙ CSS ▾

1 ▾ p:first-child {

2 text-indent: 2em;

3 }

⚙ JS ▾

During the winter of 1927–28 officials of the Federal government made a strange and secret investigation of certain conditions in the ancient Massachusetts seaport of Innsmouth. The public first learned of it in February, when a vast series of raids and arrests occurred, followed by the deliberate burning and dynamiting—under suitable precautions—of an enormous number of crumbling, worm-eaten, and supposedly empty houses along the abandoned waterfront. Uninquiring souls let this occurrence pass as one of the major clashes in a spasmodic war on liquor.

Keener news-followers, however, wondered at the prodigious number of arrests, the abnormally large force of men used in making them, and the secrecy surrounding the disposal of the prisoners. No trials, or even definite charges, were reported; nor were any of the captives seen thereafter in the regular gaols of the nation.



PRO TIP

For poetry, you should use the following CSS in case of longer lines rendered on smaller screens

```
.poetry > span {  
  text-indent: -1em;  
  display: inline-block;  
  margin-left: 1em;  
}
```


HTML

4

5<div><p class="poetry">

6<div>I sing the body electric,

7<div>

8<div>
The armies of those I love

9<div>engirth me and I engirth them,

10<div>
They will not let me off

11<div>till I go with them, respond to

12<div>them,

13<div>
And disccorrupt them, and

14<div>charge them full with the charge of the

CSS (SCSS)

1<div>.poetry > span {

2<div> /* Pulls 1st line to left */

3<div> text-indent: -1em;

4<div> /* Allows margin-left to work on inline

5<div> elements */

6<div> /* Still need
 so copying & pasting

7<div> works correctly */

8<div> display: inline-block;

9<div> /* Wrapped lines are "indented" */

10<div> margin-left: 1em;

11<div> }

JS

I Sing the Body Electric

by Walt Whitman

1

I sing the body electric,
The armies of those I love engirth me and I engirth
them,
They will not let me off till I go with them, respond to
them,
And disccorrupt them, and charge them full with the
charge of the soul.

Was it doubted that those who corrupt their own
bodies conceal themselves?
And if those who defile the living are as bad as they
who defile the dead?

`white-space`

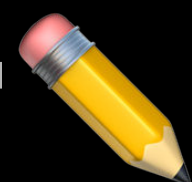
Specifies how whitespace inside an element is handled

Is whitespace collapsed?

How are newline characters in source treated?

Is text wrapped?

| Values | Whitespace | Newlines | Wrapping |
|-----------------------|------------|----------|----------|
| <code>normal</code> | Collapse | Collapse | Wrap |
| <code>nowrap</code> | Collapse | Collapse | No wrap |
| <code>pre</code> | Preserve | Preserve | No wrap |
| <code>pre-wrap</code> | Preserve | Preserve | Wrap |
| <code>pre-line</code> | Collapse | Preserve | Wrap |



SIDE NOTE

EM

IDEOGRAPHIC

FIGURE

EN

PUNCTUATION

THREE-PER-EM

NORMAL

MEDIUM MATHEMATICAL

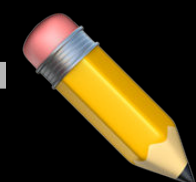
NARROW NO-BREAK

THIN

SIX-PER-EM

HAIR

25 different whitespace
characters are defined
in UTF-8



SIDE NOTE

| Unicode | Name | HTML | Notes |
|---------|-------------------|---------------------------|------------------------|
| 0009 | Tab | <code>&tab;</code> | |
| 0020 | Word space | ␣ | |
| 00A0 | No-break space | <code>&nbsp;</code> | |
| 2002 | En space | <code>&ensp;</code> | AKA <i>nut</i> |
| 2003 | Em space | <code>&emsp;</code> | AKA <i>mutton</i> |
| 2004 | 3-per-em space | <code>&emsp13;</code> | AKA <i>thick space</i> |
| 2008 | Punctuation space | <code>&puncsp;</code> | After punctuation |
| 2009 | Thin space | <code>&thinsp;</code> | 1/5 of em |

font Shorthand
Property

CSS *shorthand properties* allow you to set the values of multiple, related properties in one declaration

This is a lot of CSS:

```
font-size: 1.25em;  
line-height: 1.5;  
font-weight: 300;  
font-style: italic;  
font-variant: small-caps;  
font-family: "Georgia Pro", serif;
```

Using CSS *shorthand properties*, we can do this:

```
font: 300 italic small-caps 1.25em/1.5 "Georgia  
Pro", serif;
```

The `font` property *must* contain `font-size` & `font-family`

`font` can also contain:

- » `font-style`
- » `font-variant`
- » `font-weight`
- » `line-height`

A few rules about `font`:

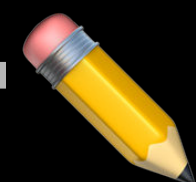
- » `font-style` (e.g., `italic`), `font-variant`, & `font-weight` must come before `font-size`
- » `line-height` must immediately follow `font-size`, separated by `/`, e.g., `16px/1.5`
- » `font-variant` may only specify `normal` or `small-caps` as values
- » `font-family` must be the last value specified

Correct examples

```
font: 1.1em "Adobe Caslon Pro";
```

```
font: 1.1em/1.4 "Adobe Caslon Pro";
```

```
font: italic 300 1.1em/1.4 "Adobe Caslon Pro";
```



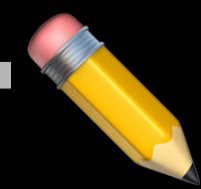
SIDE NOTE

Et → & → & → & → &

My favorite punctuation mark is the ampersand

Et is Latin for *and*

Starting in ancient Rome, writers combined the letters of *et* together as a ligature & it became the ampersand



SIDE NOTE

& Adobe Caslon Pro • & Avant Garde • & Avenir Next •
& Baskerville • & Bodoni 72 • & Calibri • & CCEXtraExtra
• & Courier • & Crimson Text • & Didot • & Futura • &
Georgia Pro • & Gill Sans • & Harrington • & Helvetica
Neue • & Hoefler Text • & Iowan Old Style • & Myriad
Pro • & Noto Sans • & Oswald • & Palatino • & Proxima
Nova • & San Francisco • & *Snell Roundhand* • & Source
Sans Pro • & Times • & Univers • & Verdana

Line Box Properties

`text-align`

Specifies how inline content is aligned in its parent block element

Values

- » `left`: align left (default)
- » `right`: align right
- » `center`: center content
- » `justify`: left & right edges of content line up to left & right edges of container (do not use!)

“Justifying text can present problems for people with Dyslexia ... Another user group affected by text justification is screen magnification users.

...

The Web Content Accessibility Guidelines (WCAG) 2.0 recommend that text be left-justified...”

HTML

CSS

```

1  .left {
2      text-align: left;
3  }
4
5  .right {
6      text-align: right;
7  }
8
9  .center {
10     text-align: center;
11 }
12
13 .justify {
14     text-align: justify;
15 }
16
17 /* Uninteresting stuff below here */
18
19 html {
20     font-size: 24px;
21     font-family: "Iowan Old Style", Georgia,
22         serif;

```

JS

Cthulhu to the left

Yog-Sothoth to the right

Nyarlathep in the center

My knowledge of the thing began in the winter of 1926-27 with the death of my great-uncle, George Gammell Angell, Professor Emeritus of Semitic Languages in Brown University, Providence, Rhode Island. Professor Angell was widely known as an authority on ancient inscriptions, and had frequently been resorted to by the heads of prominent museums; so that his passing at the age of ninety-two may be recalled by many.

Special Cases

Printing

:first

:left

:right

:blank

@page

Terms

First page is easy

Left page or *right page*?

If the first page's writing direction is...

- » left-to-right: it's a **:right** page
- » right-to-left: it's a **:left** page

:first

Selects the *1st page when printing* a document

:left

Selects any *left page when printing* a document

:right

Selects any *right page when printing* a document

Why `:left` & `:right`?

Because the W3C is helping you create a printed book,
& you want to change the right margin on the left page,
& the left margin on the right page

Outer Margin

Top Margin

Gutter ^A

Outer Margin

134

HISTORY OF MEDICINE

earliest printed document relating to medicine is the unique "Purgation-Calendar" (*Laxierkalender*) of 1457, printed in the type of Gutenberg's 36-line Bible,¹ and contained (asheet of paper only) in the Bibliothèque nationale at Paris. A unique copy of a "Calendar for Blood-Letting" (*Aderlasskalender*), printed at Mainz in 1462,¹ is one of the treasures of the Fürstenberg Library at Donaueschingen (Baden). These popular almanacs, consisting



of loose leaves or broadsides, printed on one side only, show the hold which judicial astrology (the *Lasstafelkunst*) had taken upon the people. In some of them, a special figure, the "zodiac-man" (*Tierkreiszeichenmann*), indicates, as in drug-store almanacs of more recent date, the parts of the body influenced by the different planetary conjunctions the

Left (Verso) Page



Zodiac-man. Miniature, from a blood-letting calendar by Johann Nider von Gmünd (Vienna), painted at Braunau in 1470. Courtesy of Professor Karl Sudhoff, Leipzig, Germany.

to befall humanity under different ascendancies and conjunctions of the planets. More scientific interest attaches to the *Regiment der jungen Kinder* of Bartholomæus Metlinger (Augsburg, 1473), a little book on infant hygiene, which would be the first Renaissance contribution to pediatrics had it not been preceded by Paolo

Bagellardo's *De ægreditudinibus infantum* (Padua, 1472).

The *Arztneibuch* of Ortolff of Bavaria (Nuremberg, 1477) was an important German text of popular medicine in its day, followed, about 1500, by Ortolff's quaint little *Frauenbüchlein*, or popular handbook for lying-in women. A few years later (in 1513) there appeared, at Worms, the *Rosegarten* of Eucharius Röslin, a work

¹ For a facsimile of either, see Sudhoff's interesting "Lasstafelkunst in Drucken des 15. Jahrhunderts," in his *Arch. f. Gesch. d. Med.*, Leipzig, 1907, 8, i, pp. 223 and 227 and p. 135 (opposite).

Coniunctio et oppositio solis et lune ac minoris electe nec nō dies p̄ medicis
 laxariis sumendis In anno dñi MCCCXIIJ. Quia b̄ta dñcalis xñij aure⁹ nūc
 Inuallū ie r̄bdm̄it. Conuenerunt una dies.

Ep̄ochis sc̄ia sc̄ia p̄ edwardi hora xi p̄ meridie Inensis In die cōuēctio
 pauli hora u post meridie Minutōes sc̄ia sc̄ia et media post meridie sc̄ia dñi
 Laxaria sumenda ie x xi xñij xxi xxi xxi ac vicissim homo die hui⁹ mensis
 Ep̄ochis die ap̄lonie hora xi an̄ meridie Inensis die machi ap̄st hora u an̄
 meridie Minutōes sabbo et dñica p̄ ap̄lonie u et uij p̄ ualsuni et iij p̄ mathie
 Laxaria sumenda u uij xi xñij xxi xxi xxi ac xxi die huius mensis
 Ep̄ochis sc̄ia q̄ta an̄ gregori hora xi p̄ meridie Inensis annūciatio ma-
 rie hora sc̄ia post meridie Minutōes p̄die et die gercudis et dñica p̄ gercudis
 Laxaria sumenda iij u uij xi xñij xxi xxi xxi ac xxi die huius mensis
 Ep̄ochis sabbo post ambrosij in meridie Inensis crastino gregori hoā sc̄ia
 an̄ meridiem Minutōes sc̄ia p̄ ambrosij p̄die et die rybucij dñica et sc̄ia sc̄ia p̄
 rybucij Laxaria sumenda iij iij xi xxi xxi xxi xxi ac xxi die hui⁹ mensis
 Ep̄ochis sc̄ia p̄ gorbardi in media nocte Inensis sc̄ia an̄ urbani hoā uij p̄ meridie
 Minutōes die gorbardi et die sc̄gi die gordiani et die sc̄gi p̄die sc̄p̄die et die
 eudem Laxaria sumenda uij uij xi xxi xxi xxi xxi ac xxi die hui⁹ mensis
 Ep̄ochis sc̄ia post bonificij hoā p̄ma p̄ meridie Inensis q̄ta post albanī
 hoā an̄ an̄ mēd Minutōes q̄ta u an̄ bonificij u i sabbo p̄ bonificij u uij
 ante albanī Laxaria sumenda iij iij xi xñij xxi xxi xxi ac xxi die hui⁹ mensis
 Ep̄ochis q̄ta p̄ utalci hoā xi p̄ meridie Inensis p̄die marie magd̄ hoā u p̄

Right (Recto) Page



Specimens of the *Lasstafelkunst* (Horoscopic Medicine or Judicial Astrology). (By kind permission of Professor Karl Sudhoff, University of Leipzig.) A: Fragment of Purgation Calendar (*Lazierkalender*), printed with the types of Guttenberg's 36-line Bible (1457), and discovered by Professor Sudhoff in the Bibliothèque nationale, Paris. B: Blood-letting man (*Aderlassmann*), from the Calendar of Regiomontanus (1475), showing the points of election for blood-letting under the signs of the Zodiac. C: Wound-man (*Wundenmann*), from Gersdorff's *Feldtbuch* (1517), showing the sites for ligation of the different arteries or for blood-letting. C is a later evolutionary form of the old zodiacal diagrams, which combined an exposition of planetary influences with schemata of the viscera (B).

135

Inner Margins

Bottom Margin

@page

Modifies some CSS properties when printing a document:

- » `margin`: absolute `<length>` units only
- » `orphans`
- » `widows`
- » `page-break-after`, `page-break-before`, & `page-break-inside`

Can modify only the page box, not the document content!

```
@page :first {  
    margin: 2in 3in;  
}
```




| |  |  |  | ios |  |  |
|--------|--|---|---|-----|---|---|
| :first | 8 | — | 6 | 6 | 18 | 4.4 |
| :left | 8 | — | 5.1 | 6 | 6 | Y |
| :right | 8 | — | 5.1 | 6 | 6 | Y |
| @page | 8 | 19 | — | — | 4 | Y |

As of July 2020

Embedded Fonts

Wouldn't it be nice if you could use any font you wanted
& users could automatically download & use the font?

Formats

TTF: *TrueType Fonts*

Font standard released by Apple in 1991

Standard on macOS & Windows

On the Web, simply link to TTF file

Professional font foundries hate this — you can copy & save the font

OTF: *Open Type Fonts*

Developed by Microsoft & Adobe & now an open standard as of 2007 called *Open Font Format*

On the Web, simply link to OTF file

Professional font foundries hate this — you can copy & save the font

EOT: *Embedded OpenType*

Designed by Microsoft for embedding on webpages
while making font foundries happy

DRM used to prevent fonts from being copied & used
without a license

Submitted to W3 for consideration, but rejected

WOFF: *Web Open Font Format*

Developed during 2009 by Mozilla

Wrapper containing fonts in various formats (e.g., TrueType or OpenType) encoded with ZIP compression

Only stored in RAM, so no way to copy & save the font
— so font foundries are happy!

W3 Recommendation as of 2012

WOFF2: Web Open Font Format 2.0, AKA WOFF Ultra Condensed

Developed by Google Web Fonts team

30% better compression than WOFF 1

W3 Recommendation as of March 2018



PRO TIP

Server admins should disable GZIP compression for WOFF files, because WOFF is already compressed

| |  |  |  |  |  |  |  |
|-------------------|--|---|---|---|---|---|---|
| EOT | 4 | — | — | — | — | — | — |
| TTF | — | 12 | 3.5 | 3.1 | 4.3 | 4 | 10 |
| OTF | — | 12 | 3.5 | 3.1 | 4.3 | 4 | 10 |
| WOFF | 9 | 12 | 3.6 | 5.1 | 5.1 | 6 | 11.1 |
| WOFF ₂ | — | 14 | 39 | 10 [*] | 10.2 | 36 | 24 |
| SVG [†] | — | — | — | 3.2 | 3.2 | 4–37 | 3–4.4 |

^{*} macOS 10.12 Sierra & up

[†] Removed from SVG 2 with browser support removed

@font-face

CSS2 introduced `@font-face`

```
@font-face {  
    font-family: <font-name>;  
    src: <source>, <source>;  
}
```

```
.class {  
    font-family: <font-name>, generic;  
}
```

src

Location of font

Can be local or remote

Can use any name (value)
for `font-family` you want

```
@font-face {  
  font-family: Foobar;  
  src: local(Foobar.ttf);  
}
```

Local font on user's device

```
p {  
  font-family: Foobar, sans-serif;  
}
```

```
@font-face {  
  font-family: Foobar;  
  src: url(http://www.fonts.com/foobar.woff);  
}
```

Remote font downloaded
onto user's device



```
p {  
  font-family: Foobar, sans-serif;  
}
```

Local AND remote
covers all bases—
but don't use `local`!



```
@font-face {  
  font-family: Foobar;  
  src: local(Foobar.ttf),  
       url(http://www.fonts.com/foobar.woff);  
}
```

```
p {  
  font-family: Foobar, sans-serif;  
}
```


Use a `font-family` name that is descriptive of its purpose; e.g., `Heading`, `Body`, `Code`, `Footer`



```
@font-face {  
  font-family: Heading;  
  src: url(http://www.fonts.com/foobar.woff);  
}
```

```
h1, h2, h3, h4, h5, h6 {  
  font-family: Heading, sans-serif;  
}
```



PRO TIP

Browsers download a web font only when a CSS selector that matches a DOM node uses it

...however, IE 6–8 & IE 9+ with compatibility mode turned on download *all* fonts declared in `@font-face`, even though they can only use EOT 🤪

Licensing

Problem: unauthorized copying, which type foundries do not want

Solution:

- » Open, free fonts
- » Licensed fonts

Open, Free Fonts



FEATURED FONTS

[DATALEGREYA](#)

[COOPER HEWITT](#)

[JELLEE TYPEFACE](#)

[AVARA](#)

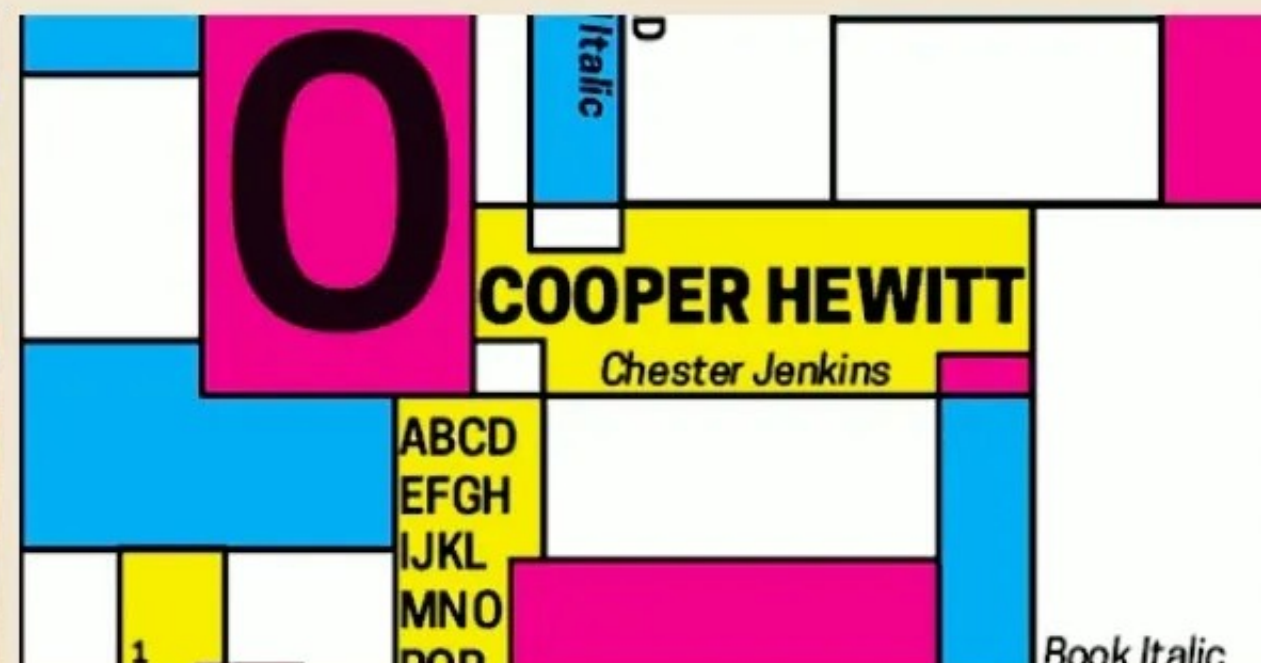
[FANTASQUE SANS MONO](#)

Cooper Hewitt: The Typeface

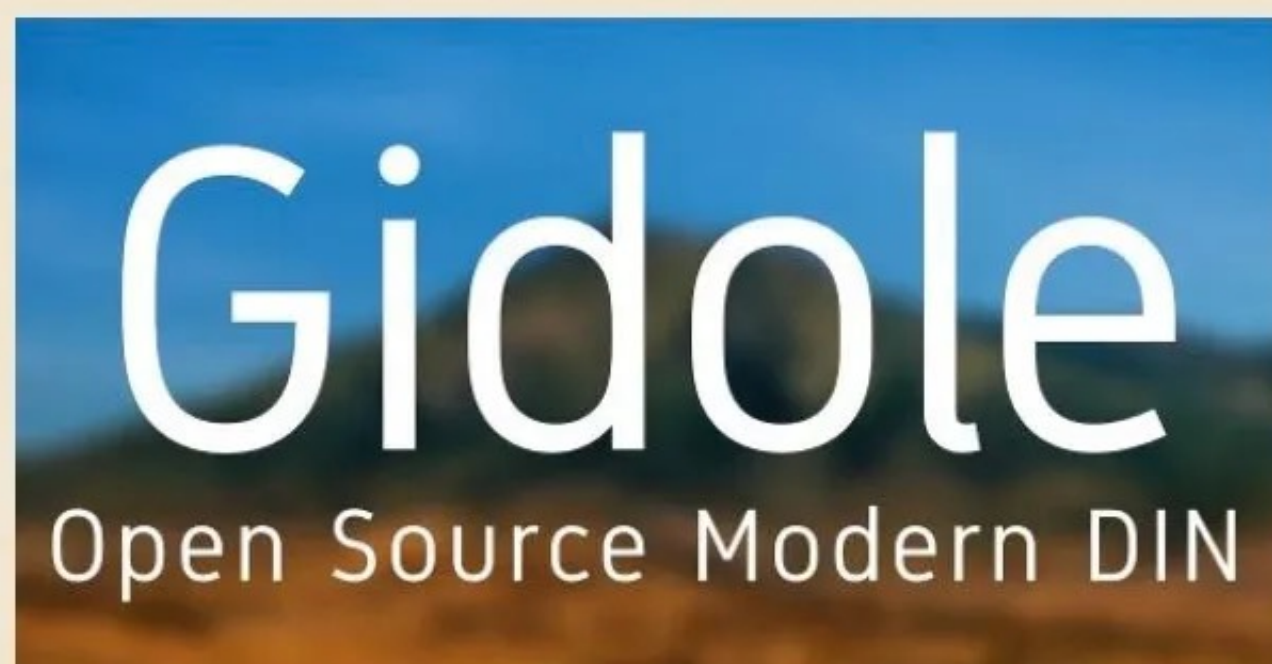
Cooper Hewitt · Village Type and Design LLC



NEMOY



COOPER HEWITT



GIDOLE REGULAR



AVARA

CATEGORIES

[Sans-serif](#) · 435

[Serif](#) · 427

[Display](#) · 212

[Handwriting](#) · 125

[Monospaced](#) · 103

[Dingbat](#) · 53

[Blackletter](#) · 37

LANGUAGES

[Arabic](#), [Cyrillic](#), [Euro](#), [Hebrew](#), [Greek](#), [Thai](#),
[Turkish](#), [Vietnamese](#), [Western European](#)

[View complete language list](#)

THE LEAGUE OF MOVEABLE TYPE

The original, the first, *the open-source* font foundry.

OPEN-SOURCE FONTS • EST. 2009 • TRUSTED & USED BY



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DISCOVERY CHANNEL

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Sentence ▾ Type something

40px ▾



Categories ▾

Language ▾

Font properties ▾



Show only variable fonts



Show only color fonts



1451 of 1451 families

About these results ⓘ

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Christian Robertson

12 styles

Whereas recognition of the
inherent dignity

Reem Kufi Ink

Khaled Hosny

1 style

لَمَّا كَانَ الْإِعْتِرَافُ بِالظَّالِمَةِ الْغَلَاظِلَةِ
فِي جَمِيعِ

Reem Kufi Fun

Khaled Hosny, Santiago Orozco

Variable

Bungee Spice

David Jonathan Ross

1 style



“All of the fonts are Open Source... You can even customize them for your own use... And you can use them in every way you want, privately or commercially—in print, on your computer, or in your websites.”

—Google Fonts in 2015

Sort & filter results

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في جميع

Trending

Most popular

Newest

Name

Variable

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Khaled Hosny

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Paragraph

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Font properties ▼

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- ☒ Serif
- ☒ Sans Serif
- ☒ Display
- ☒ Handwriting
- ☒ Monospace

Reset

About these results ⓘ

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Sentence ▴

Type something

40px ▾



Categories ▾

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Font properties ▴

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Whereas reco
inherent digni

Number of styles



Thickness



Slant



Width



Reset

Reem Kufi Fun

Khaled Hosny, Santiago Orozco

Variable

لما كان الاعتراف بالكرامة المتأصلة
في جميع

Reem Kufi Ink

Khaled Hosny

1 style

Bungee Spice

David Jonathan Ross

1 style



View extensive info about individual typefaces



Source Sans Pro

Designed by [Paul D. Hunt](#)

Whereas disregard and contempt
for human rights have resulted

Select preview text:

Americas ▼

English ▼

Regular 400 ▼

☐ Italic

Regular 400 at 48px

Whereas a common
understanding of these
rights and freedoms is

Regular 400 at 36px

No one shall be held in slavery
or servitude; slavery and the
slave trade shall be prohibited
in all their forms.

Regular 400 at 21px

No one shall be subjected to arbitrary arrest,
detention or exile. Everyone is entitled in full equality
to a fair and public hearing by an independent and
impartial tribunal, in the determination of his rights
and obligations and of any criminal charge against
him. No one shall be subjected to arbitrary
interference with his privacy, family, home or
correspondence, nor to attacks upon his honour and
reputation. Everyone has the right to the protection
of the law against such interference or attacks.

Regular 400 at 16px

Everyone has the right to freedom of thought, conscience and
religion; this right includes freedom to change his religion or belief,
and freedom, either alone or in community with others and in public
or private, to manifest his religion or belief in teaching, practice,
worship and observance. Everyone has the right to freedom of
opinion and expression; this right includes freedom to hold opinions
without interference and to seek, receive and impart information and

Styles

Type here to preview text

Whereas recognition of the inherent dignity

64px ▼



ExtraLight 200

Whereas recognition of the inherent

ExtraLight 200 ⊕

ExtraLight 200 Italic

Whereas recognition of the inherent

ExtraLight 200 Italic ⊕

Light 300

Whereas recognition of the inherent

Light 300 ⊕

Light 300 Italic

Whereas recognition of the inherent Light 300 Italic ⊕

Regular 400

Whereas recognition of the inherent Regular 400 ⊕

Regular 400 Italic

Whereas recognition of the inherer Regular 400 Italic ⊕

SemiBold 600

Whereas recognition of the inherer SemiBold 600 ⊕

SemiBold 600 Italic

SemiBold 600 Italic

Whereas recognition of the inher SemiBold 600 Italic 

Bold 700

Whereas recognition of the inher Bold 700 

Bold 700 Italic

Whereas recognition of the inher Bold 700 Italic 

Black 900

Whereas recognition of the inher Black 900 

Black 900 Italic

Source Sans Pro

Designed by [Paul D. Hunt](#)

Select preview text:

Americas ▼

English ▼

Heading ▼

−

48px

+

Regular 400 ▼

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↕

Whereas recognition of the inherent dignity

No one shall be subjected to arbitrary arrest, detention or exile. Everyone is entitled in full equality to a fair and public hearing by an independent and impartial tribunal, in the determination of his rights and obligations and of any criminal charge against him. No one shall be subjected to arbitrary interference with his privacy, family, home or correspondence, nor to attacks upon his honour and reputation. Everyone has the right to the protection of the law against such interference or attacks.

Source Sans Pro

Designed by [Paul D. Hunt](#)

Only a subset of all the glyphs are shown here. Download the font to view the full set.

Latin Lowercase



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| a | á | à | ă | ǎ | ǎ | ǎ | ǎ |
| â | ă | ă | ă | ă | ă | ă | ă |
| ă | ă | ă | ă | ă | ă | ă | ă |
| ă | ă | ă | ă | ă | ă | ă | ă |
| ă | ă | ă | ă | ă | ă | ă | ă |
| ă | ă | ă | ă | ă | ă | ă | ă |
| ă | ă | ă | ă | ă | ă | ă | ă |
| ă | ă | ă | ă | ă | ă | ă | ă |

a

Latin Uppercase

▼

Greek Lowercase

▼

Greek Uppercase

▼

Greek

▼

Cyrillic Lowercase

▼

Cyrillic Uppercase

▼

Numbers

▼

Common Latin

▼

Spacing Modifiers

▼

Arrows

▼

Math Operators

▼

Punctuation

▼

Language support

310 languages available

| | |
|---|---|
| <div><div>Africa</div><div>78 Languages</div></div> <div></div> | ▼ |
| <div><div>Americas</div><div>37 Languages</div></div> <div></div> | ▼ |
| <div><div>Asia</div><div>62 Languages</div></div> <div></div> | ▼ |
| <div><div>Europe</div><div>110 Languages</div></div> <div></div> | ▼ |
| <div><div>Oceania</div><div>23 Languages</div></div> <div></div> | ▼ |

Source Sans Pro

Designed by [Paul D. Hunt](#)

About

Source® Sans Pro, Adobe's first open source typeface family, was designed by Paul D. Hunt. It is a sans serif typeface intended to work well in user interfaces.

Designer



[Paul D. Hunt](#)

Principal design

License

These fonts are licensed under the [Open Font License](#).

You can use them in your products & projects – print or digital, commercial or otherwise.

This isn't legal advice, please consider consulting a lawyer and see the full license for all details.

Usage



[Have feedback on Source Sans Pro?](#)



[Have feedback on Source Sans Pro?](#)

Usage

5.11 billion

Number of times Google Fonts API served Source Sans Pro over the last week. Source Sans Pro is featured in more than 19,000,000 websites.

Top countries

| | |
|---------------|---------------|
| United States | 2,117,005,722 |
| Turkey | 386,698,612 |
| Poland | 212,826,610 |
| Philippines | 3,677,170 |
| Netherlands | 7,862,261 |

There are over 1,450 fonts at Google Fonts

To save time, see what others have said are the best fonts



best google fonts



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A Curated Collection of the 30 Best Google Fonts ... - Typewolf

A collection of the absolute **best** free **fonts** available on **Google Fonts** in 2016—open-source and 100% free for commercial use.

typewolf.com/open-source-web-fonts

Google Fonts

Google Fonts

google.com/fonts

The 10 best Google Fonts for print, web and mobile | Creative ...

Google Fonts make it quicker and easier for everyone to use web **fonts**, including professional designers and developers. All of the **fonts** are Open Source, which mean ...

creativebloq.com/typography/10-best-google-fonts-print-web...

20 Best Web Fonts from Google Web Fonts and @font-face

At the moment there are several ways to use non-system **fonts** on a website. We will focus on the two least complicated, least expensive systems, **Google Web Fonts** and ...

awwwards.com/20-best-web-fonts-from-google-web-fonts-a...

Beautiful web type — the best typefaces from the Google web ...

Beautiful W eb Type A showcase of the **best** typefaces from the **Google** web **fonts** directory. There are over 600 typefaces in the **Google** web **fonts** directory.

hellohappy.org/beautiful-web-type/

The 10 Best Script and Handwritten Google Web Fonts

Beautiful Web Type Combinations

A showcase of great typeface combinations from the Google web fonts directory.

There are so much typefaces in the Google web fonts directory. Many of them are awful. But there are also high-quality typefaces that deserve a closer look. Below are examples of these typefaces in action. Hover for name of typeface and click the texts of examples to get the typeface from the Google web fonts directory.

462 Google Web Fonts Families

Because web designers want font families, not just fonts.

Albert Sans

100, 200, 300, 400, **500, 600, 700, 800, 900**,
100 Italic, 200 Italic, 300 Italic, Italic, 500 Italic,
600 Italic, 700 Italic, 800 Italic, 900 Italic

Archivo

100, 200, 300, 400, **500, 600, 700, 800, 900**,
100 Italic, 200 Italic, 300 Italic, Italic, 500 Italic,
600 Italic, 700 Italic, 800 Italic, 900 Italic

Barlow Condensed

100, *100 Italic*, 200, *200 Italic*, 300, *300 Italic*, 400, *Italic*, **500,**
500 Italic, 600, 600 Italic, 700, 700 Italic, 800, 800 Italic,
900, 900 Italic

Bitter

Alumni Sans

100, 200, 300, 400, 500, **600, 700, 800, 900**, *100 Italic, 200 Italic,*
300 Italic, Italic, 500 Italic, 600 Italic, 700 Italic, 800 Italic,
900 Italic

Azeret Mono

100, 200, 300, **400, 500, 600, 700, 800,**
900, *100 Italic, 200 Italic,*
300 Italic, Italic, 500 Italic,
600 Italic, 700 Italic, 800 Italic,
900 Italic

Barlow Semi Condensed

100, *100 Italic*, 200, *200 Italic*, 300, *300 Italic*, 400, *Italic*,
500, 500 Italic, 600, 600 Italic, 700, 700 Italic, 800,
800 Italic, 900, 900 Italic

Epilogue

100, 200, 300, 400, 500, 600, 700, 800, 900

Anybody

100, 200, 300, **400, 500, 600, 700, 800, 900**,
100 Italic, 200 Italic, 300 Italic, Italic, 500 Italic,
600 Italic, 700 Italic, 800 Italic, 900 Italic

Barlow

100, *100 Italic*, 200, *200 Italic*, 300, *300 Italic*, 400,
Italic, 500, *500 Italic*, **600, 600 Italic, 700,**
700 Italic, 800, 800 Italic, 900, 900 Italic

Be Vietnam Pro

100, *100 Italic*, 200, *200 Italic*, 300, *300 Italic*,
400, *Italic*, 500, *500 Italic*, **600, 600 Italic,**
700, 700 Italic, 800, 800 Italic, 900,
900 Italic

Exo

100, 200, 300, 400, 500, 600, 700, 800, 900



Typewolf

WHAT'S TRENDING IN TYPE

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[Font Recommendations & Lists](#)

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Five Fresh Headline & Body Text Pairings on Google Fonts

BY JEREMIAH SHOAF



OCTOBER 12, 2016

The recent relaunch of Google Fonts prompted me



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12

Pikachu ↗

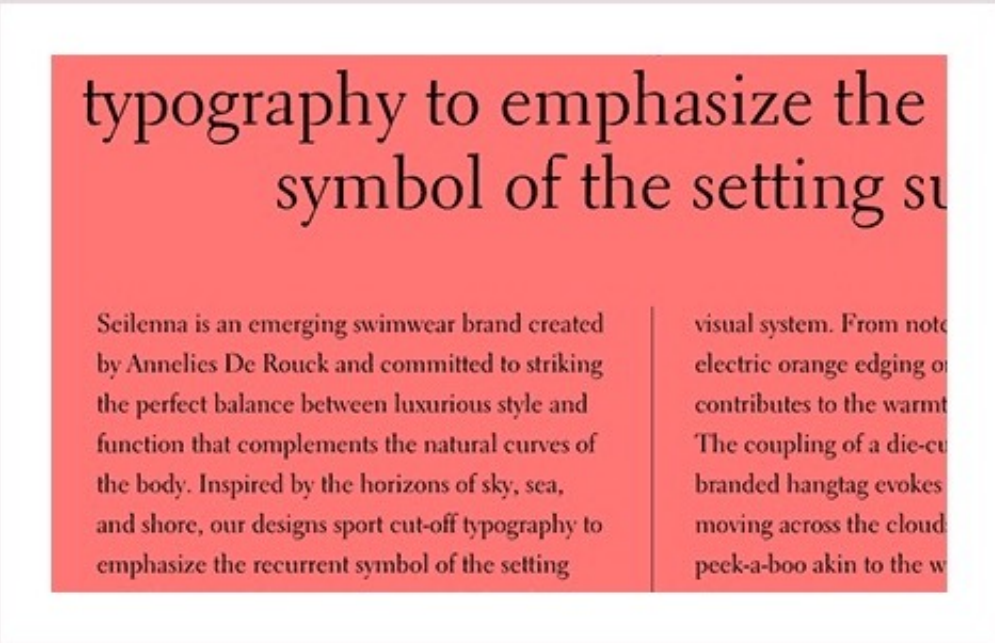
13

Zombie ↘

Karl Anders

**Unsere Arbeiten wi
nationalen und inte
Magazinen und Blo**

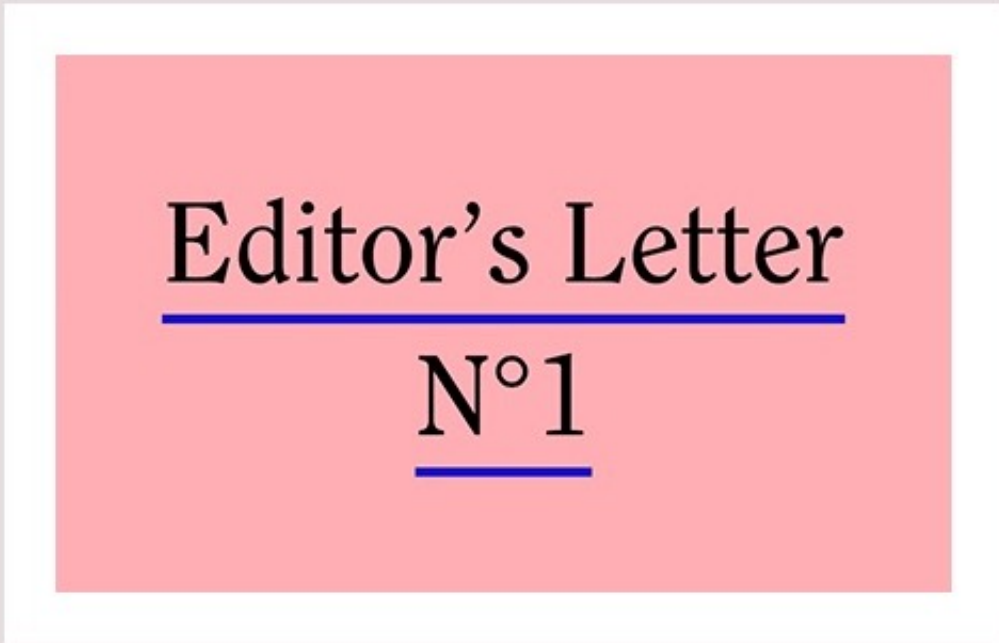
Favorites Lists



Top 10 Favorite Body Text Fonts



Top 10 Favorite Fonts That Are Underused



Top 30 Favorite Sites



Top 10 Favorite Typekit Font Combinations

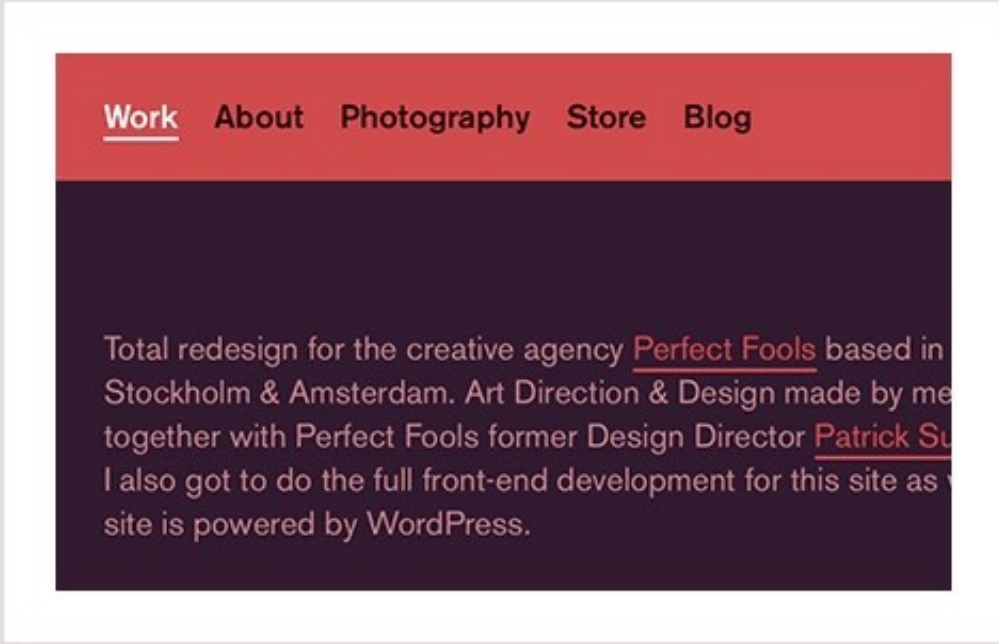
Alternative Lists



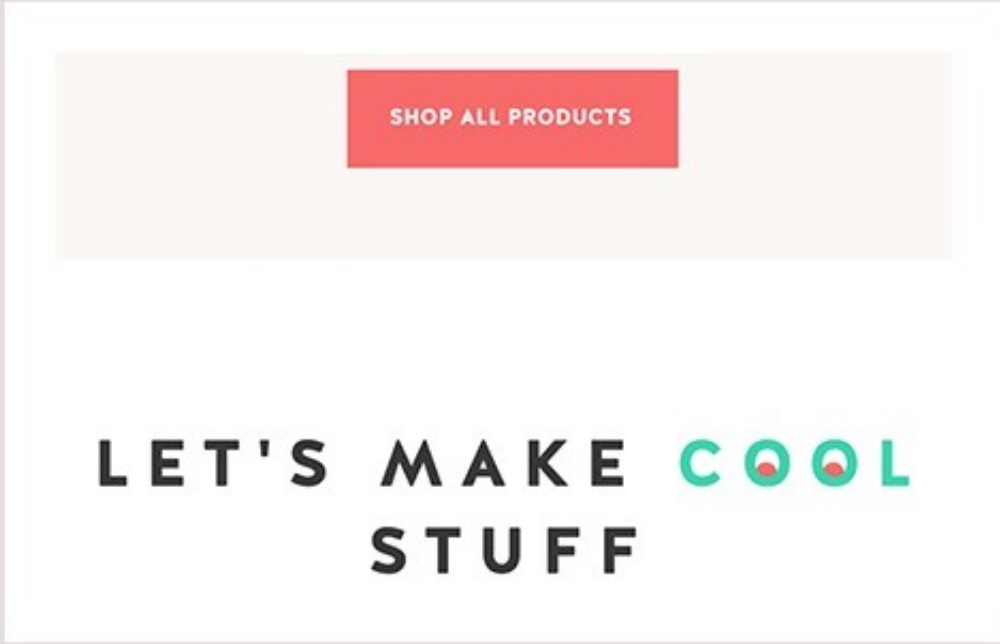
Top 10 Helvetica Alternatives



Top 10 Futura Alternatives

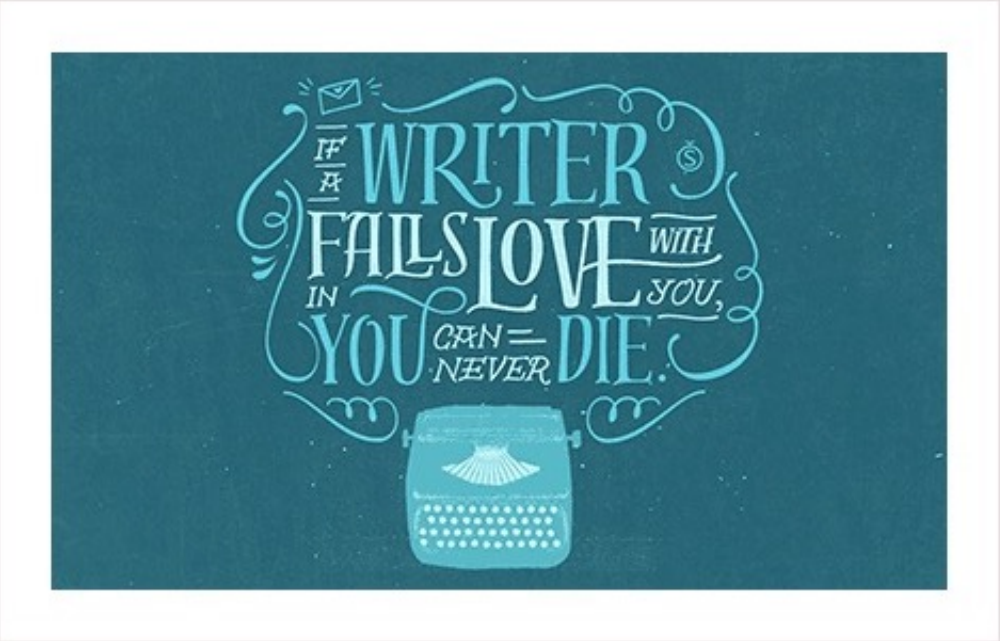


Top 10 Proxima Nova & Gotham Alternatives



Top 10 Brandon Grotesque Alternatives

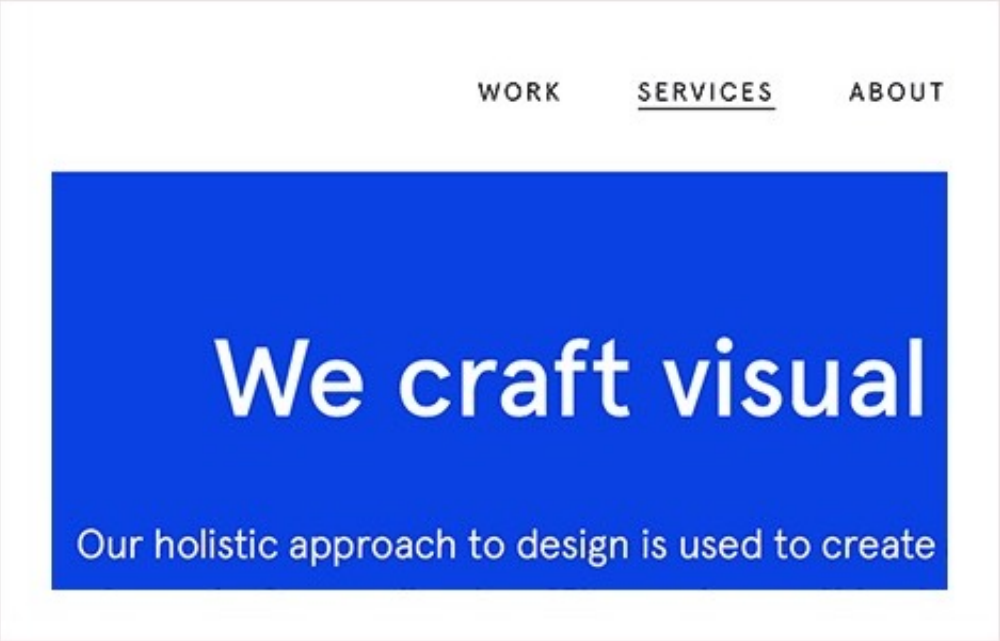
Fun Lists



Top 10 “Hipster” Fonts

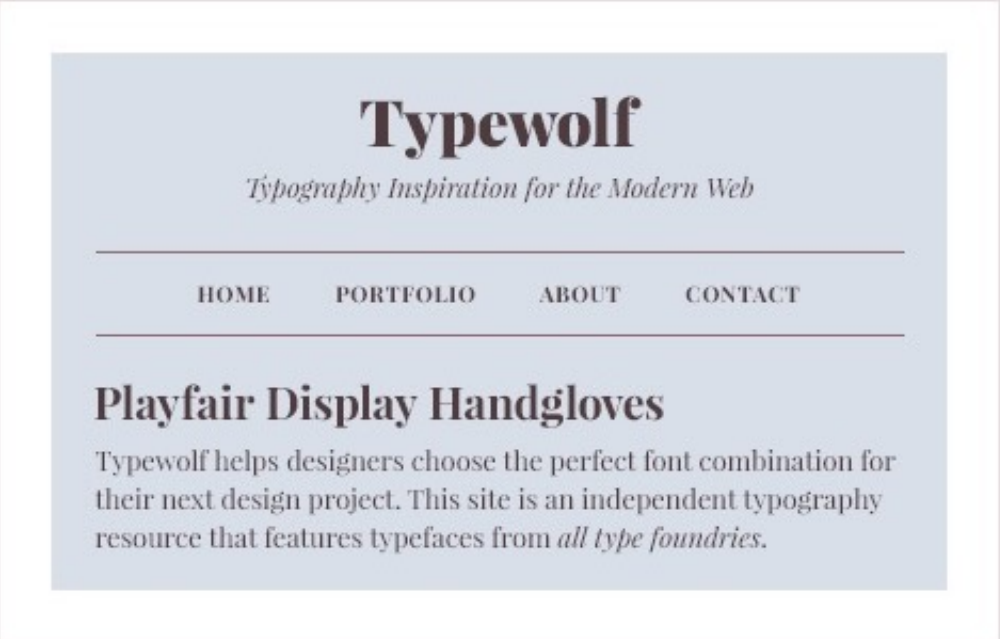


Top 10 1970s Album Cover Fonts



Top 10 Quirky Grotesque Fonts

Free Font Lists



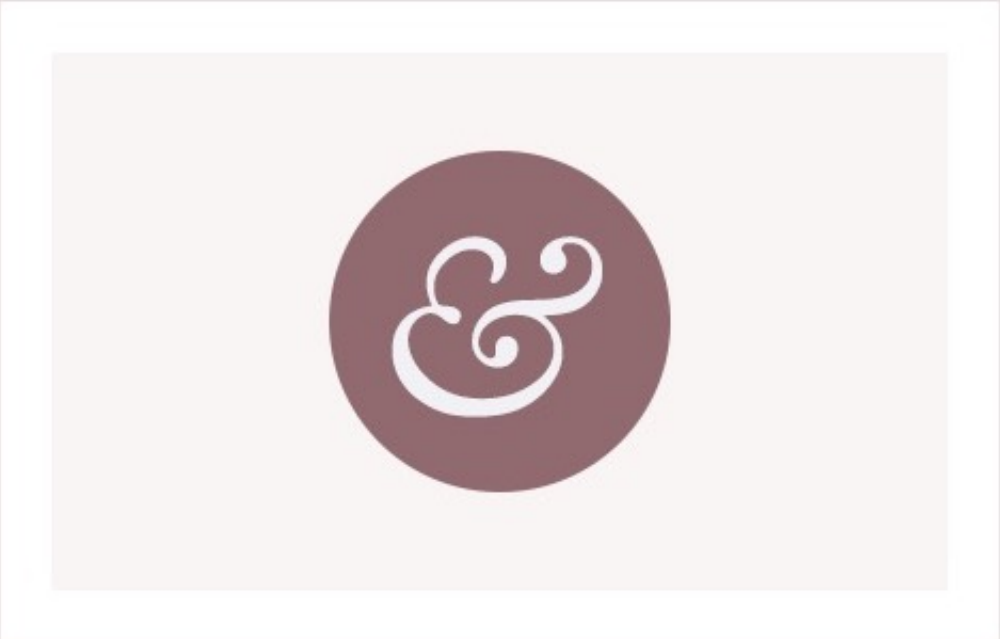
Top 40 Google Fonts



Top 10 Free “Hipster” Fonts

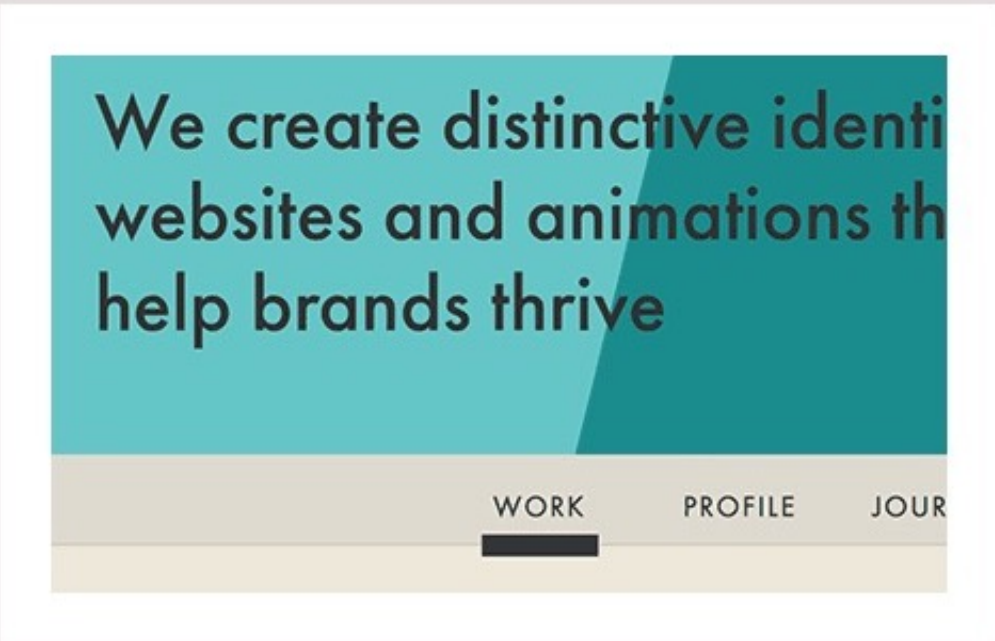


Top 10 Serif + Sans-Serif Font Combos on Google Fonts



Top 10 Free Fonts That Aren’t on Google Fonts

Classification Lists



Top 10 Sans-Serif Fonts



Top 10 Serif Fonts



Top 10 Slab Serif Fonts



Top 10 Humanist Sans-Serif Fonts



Top 10 Monospaced Fonts



Top 10 Rounded Fonts

The Most Popular Fonts on Typewolf

- 1) Futura
- 2) Apercu
- 3) Proxima Nova
- 4) Brandon Grotesque
- 5) Avenir
- 6) Gotham
- 7) Circular
- 8) GT Walsheim
- 9) Caslon
- 10) Georgia
- 11) Garamond
- 12) Franklin Gothic
- 13) Neuzeit
- 14) Freight Text
- 15) Sentinel
- View More →

Search

Search is coming soon. For now, just Google “typewolf” followed by the name of a font.

Font Recommendations

- Top 40 Google Fonts
- Top 10 “Hipster” Fonts
- Top 10 Helvetica Alternatives

Popular Blog Posts

- The Ten Most Popular Web Fonts of 2015
- Will Google Fonts Ever Be Shut Down?
- Industry-Leading Designers Share Their 3 Favorite Typefaces

Monthly Typography News Roundup


hello@example.com

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- Typography Cheatsheet
- The Definitive Guide to Free Fonts
- Typography Resources

How to Support Typewolf



Typewolf is an independent typography resource created by [Jeremiah Shoaf](#). The site gets over 1,000,000 pageviews a month; running it is expensive and time-consuming. If you find Typewolf useful, please consider [supporting the site](#) to help make it a sustainable and ad-free side project.

Follow Typewolf



Brandon Grotesque

Released in 2010, Brandon Grotesque is a geometric sans-serif typeface designed by German type designer Hannes von Döhren of HVD Fonts. The design was heavily influenced by the geometric typefaces that originated in the 1920s, taking a little more influence from [Erbar](#) rather than the more well-known design from that time period, [Futura](#). It's a font that seems to be much more popular on the web than in print, in contrast to the similar design, [Neutraface](#), which is extremely popular in the print world but seldom used on the web. Brandon Grotesque is available in six weights—thin, light, regular, medium, bold and black—each with matching italics. There is also a text version available called *Brandon Text* that features a larger x-height, making it more suitable for [body copy](#).

[Download Brandon Grotesque →](#)

Brandon Grotesque Specimen

Handgloves

Similar Fonts

[Top 10 Brandon Grotesque Alternatives](#)

[MTT Milano](#)

[Halis Rounded](#)

Suggested Font Pairing

Brandon Grotesque + [Ambroise](#)

Closest Free Alternative on Google Fonts

See my [PDF guide →](#)

Brandon Grotesque Font Pairings



PRODUCERS

ABOUT US

CONTACT

**Our company was founded
brothers David and Matt
McCarus, the strength of t
the backbone of everythin**

McCarus Beverage Company

Aug 6, 2016

Fonts—[Freight Display](#), [Brandon Grotesque](#), [Plantin](#)

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Gallantry

Jul 23, 2016

Fonts—[Brandon Grotesque](#), [Montserrat](#), [Proxima Nova](#), [Abolition](#)

PRE-K [GROWING READER](#) [TWEEN](#) [TEEN](#)

FREE VIDEOS

MONTHLY

Open "<https://www.typewolf.com/site-of-the-day/mccarus-beverage-company>" in a new tab



Google Fonts

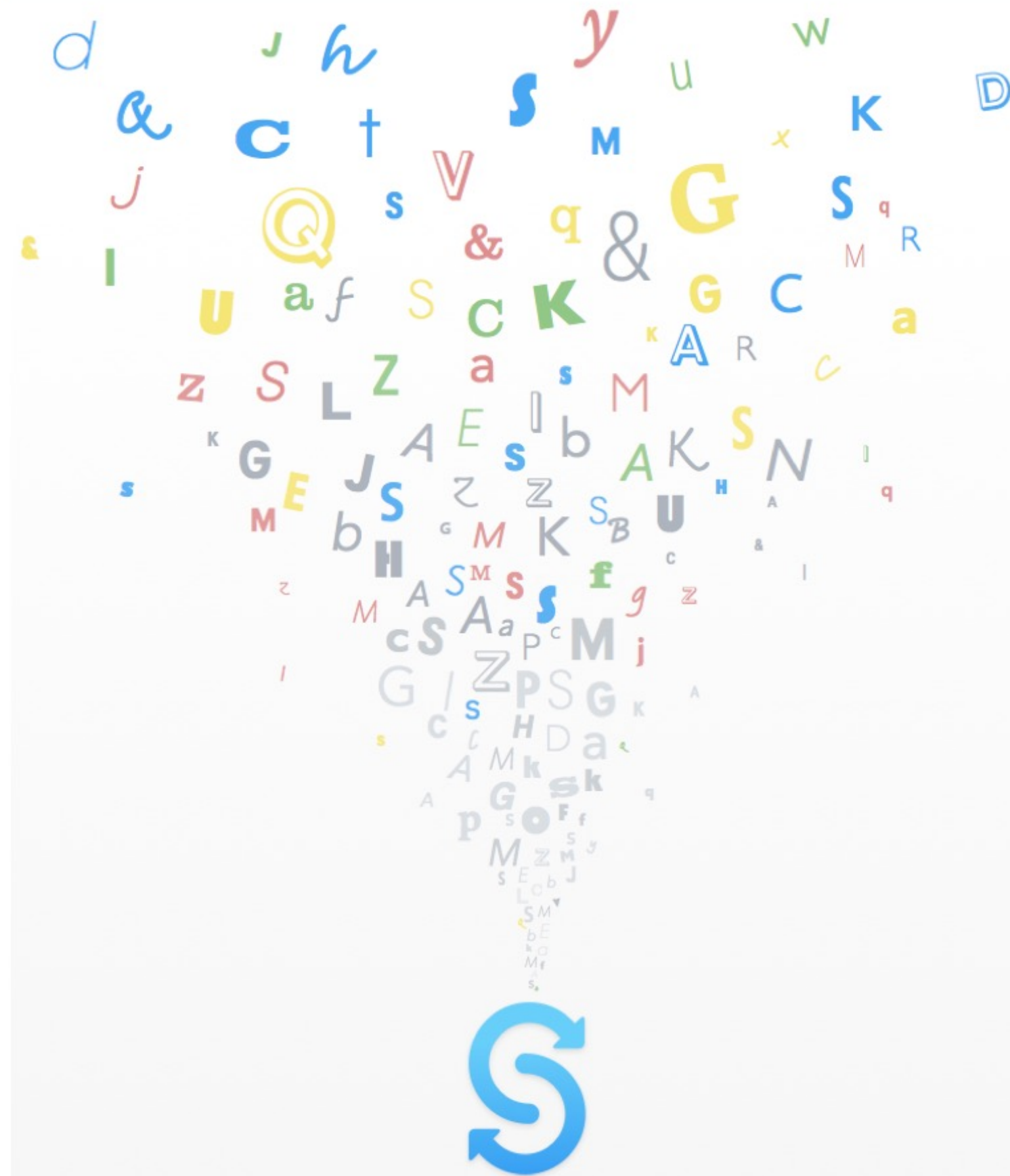
Sync Google Fonts to your Desktop with SkyFonts.

[Install SkyFonts](#)

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FREE WEB FONTS

Your fonts



To start building your font library, check out the most popular free fonts from **Google Fonts**.

[View Google Fonts](#)



GOOGLE FONTS



GOOGLE

The use of these fonts are governed by the [Google Fonts EULA](#)

1753 fonts

Fonts will be installed through the SkyFonts client and are free to use. If you have a Fonts.com Web Fonts subscription, using these fonts will not count against your subscription desktop font allowance.

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



[BATCH INSTALL](#) the top [10](#) | [20](#) | [50](#) Google font families.

ABEEZEE REGULAR

The quick brown fox jumps over the lazy dog

Google Fonts

SkyFonts ▼

ABEEZEE ITALIC

The quick brown fox jumps over the lazy dog

Google Fonts

SkyFonts ▼

ABEL REGULAR

The quick brown fox jumps over the lazy dog. The quick

Google Fonts

SkyFonts ▼

ABHAYA LIBRE REGULAR

The quick brown fox jumps over the lazy dog. The quick

Google Fonts

SkyFonts ▼

ABHAYA LIBRE 500

The quick brown fox jumps over the lazy dog. The quick

Google Fonts

SkyFonts ▼



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Commercial Fonts



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Subscribe to any Adobe creative app such as Photoshop, Illustrator, or Xd to

ADOBE EXPRESS

Adobe Express includes access to the Adobe Fonts library at no additional cost



▼ TAGS

| | |
|---------------------|-----------------|
| <i>Calligraphic</i> | Clean |
| <i>Brush Pen</i> | Geometric |
| Funky | ART DECO |
| Friendly | Rounded |
| <i>Cursive</i> | Luxury |
| Rough | Fun |
| Futuristic | Marker |
| <i>Comic</i> | Western |
| Blackletter | <i>Wedding</i> |
| School | College |
| Typewriter | SHADED |
| STENCIL | INLINE |
| HORROR | Ornaments |

▼ CLASSIFICATION

| | |
|------------|----------|
| M | M |
| Sans Serif | Serif |
| M | <i>M</i> |
| Slab Serif | Script |
| M | <i>M</i> |
| Mono | Hand |

▼ PROPERTIES

Number of fonts in family 1 - 25+

○ ————— ○

| | | |
|-----------------------|-----|----------|
| G | G | G |
| Weight | | |
| A | A | A |
| Width | | |
| h | h | h |
| x-Height | | |
| O | O | O |
| Contrast | | |
| Ab | AB | |
| Standard or Caps Only | | |
| 246 | 246 | |
| Default Figure Style | | |

Filters for Adobe Fonts

Enjoy unlimited access to more than 20,000 fonts today

Not a subscriber yet? Find the right Creative Cloud plan for you

Sign in

SINGLE-APP CREATIVE CLOUD SUBSCRIPTION

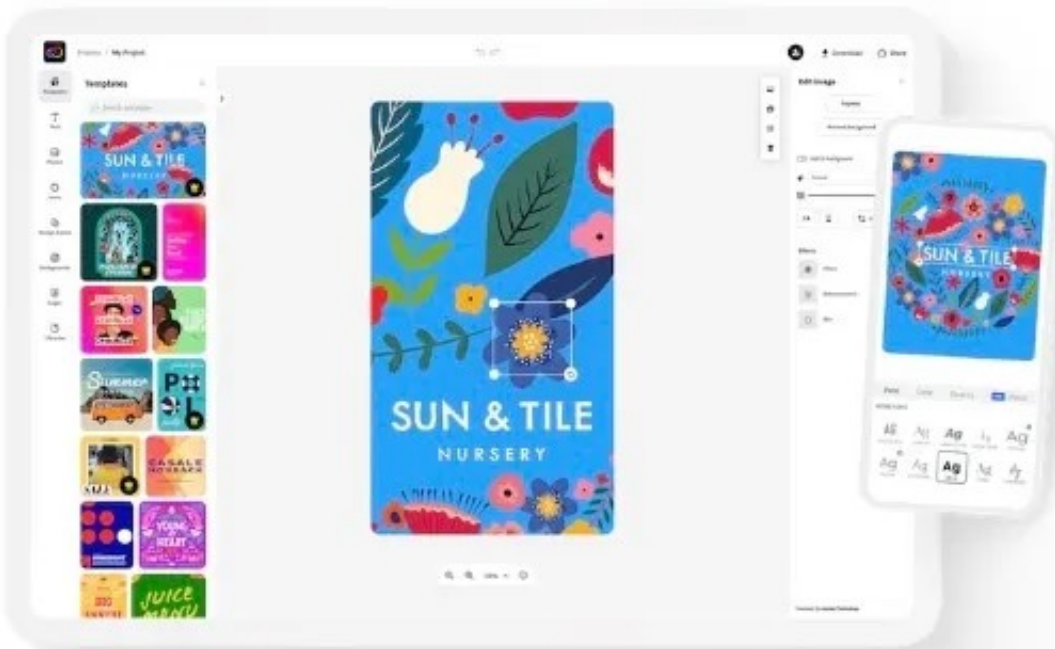
Subscribe to any Adobe creative app such as Photoshop, Illustrator, or Xd to access the entire Adobe Fonts library at no additional cost



See plans

ADOBE EXPRESS

Adobe Express includes access to the Adobe Fonts library at no additional cost



See plans

Sign up for a **free** Adobe ID and try out our basic library of over 1,000 fonts

Sign up

typography.com 19 September 2022



Sans Serif Symbols

In each of its ten weights, our *Decimal*

<https://www.typography.com/fonts/operator/overview>

```

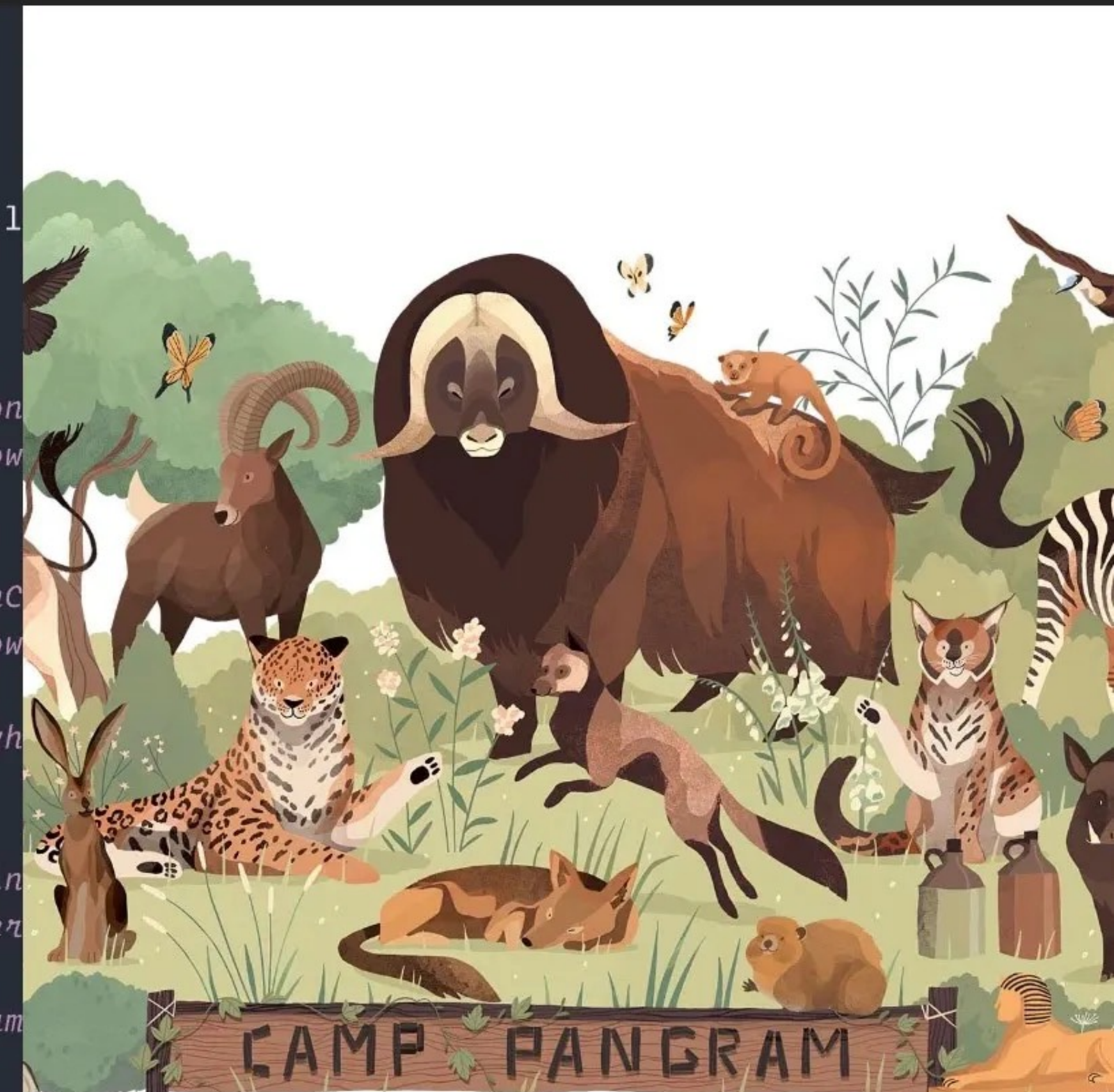
45 const styles = require('./Selector.css');
46 const toggleClasses = classNames({
47   [styles.Base]: true,
48   [styles['Base--isOpen']]: isOpen,
49   [styles['Base--isSet']]: isDisabled || items.1
50 });
51
52 return (
53   <div className={baseClasses} ref="selector" on
54   <div className={styles.Wrapper} onMouseDown
55     { currentFont || labelValue }
56   </div>
57   {this.state.isOpen && <ClickOutHandler onC
58   <div className={styles.Wrapper} onMouseDown
59     <figure className={styles.Figure}>
60       <img src={image} width="375" height
61     </figure>
62     <div className={styles.Content}>
63       <h1 className={headlineClasses} in
64       <div className={bodyClasses} inner
65       <div className={styles.CTA}>
66         { buttonLabel ? <span classNam
67         <Button

```

A Font for Developers

The screen-optimized *Operator Mono*

ScreenSmart is designed for



A fond farewell to The Quick Brown Fox

Why 26 letter "pangrams" make every

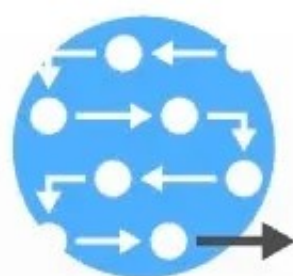
Cloud-Hosted Web Fonts

Designed for developers, Cloud.typography is a subscription service that lets you use the *entire* H&Co font library on the websites you create, all delivered using a world-class CDN. Plans start at \$199/year for 250,000 monthly pageviews.



The whole H&Co library

Access the more than 1,500 fonts in our continuously growing collection



Easy to integrate

Configure and manage your site's typography directly from the browser



A 100% CSS solution

Using no JavaScript, Cloud.typography is a safe way to deliver files, not code

Start your **Cloud.typography subscription** at the pageview level that's right for you:

Self-Hosted Web Fonts

For website owners, H&Co web fonts can be downloaded and hosted on your own server. Included in both woff and woff2 formats, font licenses are priced by total monthly traffic.



Delivered from your architecture

Avoid third-party integrations by serving fonts directly from your own hardware



Designed to grow with you

Choose the plan that's right for you, from 250,000 pageviews/month to unlimited traffic

Explore our most popular **self-hosted web fonts**, ready to download and start serving today:



Configure and manage your site's typography directly from the browser



A 100% CSS solution

Using no JavaScript, Cloud.typography is a safe way to deliver files, not code

Start your **Cloud.typography subscription** at the pageview level that's right for you:

\$199/year

250,000

monthly pageviews

Add to Cart

\$599/year

1,000,000

monthly pageviews

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Need more than 1 million pageviews? Please [contact our sales office](#).

pageviews/month to unlimited traffic

Explore our most popular **self-hosted web fonts**, ready to download and start serving today:

Gotham

from \$219

Vitesse

from \$259

Sentinel

from \$259

Ideal Sans

from \$199

TUNGSTEN

from \$259

Inkwell

from \$159

Ringside

from \$259

Surveyor

from \$259



No Computers

Websites with 250,000 pageviews/month
One-year license to self-host web fonts

Apps...



PACKAGES AVAILABLE:

- ☒ **Gotham** Multipurpose fonts
- ☐ **Gotham ScreenSmart** for the web
- ☐ **Gotham Office** for business

* **GOTHAM COMPLETE** — *Best Value*

All 66 styles of Gotham. **Save \$0** when buying the complete collection!

~~\$519.00~~ **\$519.00**

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STYLES INCLUDED

Gotham Thin. Every designer h

Gotham Thin

Gotham Thin Italic. From these

Gotham Thin Italic

Gotham Extra Light. New York

Gotham Extra Light

Gotham Extra Light Italic. The

No Computers

Websites with 1 million pageviews/month

One-year license to self-host web fonts

Apps...



PACKAGES AVAILABLE:

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* **GOTHAM COMPLETE** — *Best Value*

All 66 styles of Gotham. **Save \$0** when buying the complete collection!

~~\$719.00~~ **\$719.00**

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STYLES INCLUDED

Gotham Thin. Every designer h

Gotham Thin



[Log in](#) | [Sign Up](#) 0 items, \$0.00

All fonts ▼

Search over 130,000 fonts... and counting!

Search

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Browse Fonts by category

| | | |
|------------|-------------|--------|
| Sans Serif | Slab Serif | Serif |
| DISPLAY | HANDWRITTEN | Script |

MyFonts offers the largest selection of professional fonts for any project.

Individual Pro +250,000 web page views

Best Value! Take your brand to new typographic heights and make a lasting impression with quality designs. Starting at **\$199 per year**, this plan offers hosted web fonts, endless prototyping, unlimited monthly syncs, and exclusive early access to deals.

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Individual Pro +1,000,000 web page views

For the seriously dedicated creative with a large online audience. Starting at **\$599 per year**, this plan includes everything in the Individual plan, plus four times the web page views, allowing you to use your fonts on all of your high traffic websites.

- **Unlimited prototyping with 30,000+ fonts**
- **Access for 1 user**
- **1,000,000 monthly web page views**

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Individual Standard

Unlimited prototyping, without the web fonts. Level up your personal brand and discover new typefaces while you're at it. Starting at **\$99 per year**, this plan is perfect for the curious designer looking to prototype with world-class fonts.

→ Unlimited prototyping with 30,000+ fonts

→ Access for 1 user

Subscribe now →



Embedding

Google Fonts the Google Way

(Don't do this)

Time to pick out a nice font...

[Select styles](#) [Glyphs](#) [About](#) [License](#) [Pairings](#)

[Review](#) [Embed](#)

Almost before we knew it, we had left the ground.

Light 300

Almost before we knew it, we had left the ground.

— Remove this style

Regular 400

Almost before we knew it, we had left the ground.

+ Select this style

Medium 500

Almost before we knew it, we had left the ground.

+ Select this style

Semi-bold 600

Almost before we knew it, we had left the ground.

+ Select this style

Bold 700

Almost before we knew it, we had left the ground.

+ Select this style

Oswald

Light 300



[Add more styles](#) [Remove all](#)

Select styles

Glyphs

About

License

Pairings

Review

Embed

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Almost before we knew it, we had left the ground.

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+ Select this style

Semi-bold 600

Almost before we knew it, we had left the ground.

+ Select this style

Bold 700

Almost before we knew it, we had left the ground.

— Remove this style

Oswald

Light 300



Regular 400



Bold 700



Add more styles

Remove all



Select styles

Glyphs

About

License

Pairings

Review

Embed

Almost before we knew it, we had left the ground.

Light 300

Almost before we knew it, we had left the ground.

Remove this style

Regular 400

Almost before we knew it, we had left the ground.

Don't do this

Medium 500

Almost before we knew it, we had left the ground.

+ Select this style

Semi-bold 600

Almost before we knew it, we had left the ground.

+ Select this style

Bold 700

Almost before we knew it, we had left the ground.

Remove this style

To embed a font, copy the code into the <head> of your html

<link> @import

```
<link href="https://fonts.googleapis.com/css2?family=Oswald:weight@300;400;700&display=swap" rel="stylesheet">
```

CSS rules to specify families

```
font-family: 'Oswald', sans-serif;
```

Let's see it in action

Let's see it in action

DEMO!

Serving Google Fonts Locally

(Do this)

Many website visitors will never see your chosen Google Fonts

- » Most ad- & tracking-blockers filter out access to third-party fonts by default
- » Google serves different fonts to users depending upon their operating systems

In order to provide a consistent set of fonts that all users can view, you should locally host selected Google Fonts

ABeeZee sans-serif

Abel sans-serif

Abhaya Libre serif

Abril Fatface display

Aclonica sans-serif

Acme sans-serif

Actor sans-serif

Adamina serif

Advent Pro sans-serif

Aguafina Script
handwriting

Akronim display

Aladin handwriting

Alata sans-serif

Alatsi sans-serif

Aldrich sans-serif

Alef sans-serif

google-webfonts-helper

A Hassle-Free Way to Self-Host Google Fonts

by [Mario Ranftl](#) Select a font to continue...[View project on GitHub](#)[Read the author's note](#)[API](#)

Useful resources

[Google Fonts Open Source Font Attribution](#)[Using @font-face](#)[Beautiful Web Type - A showcase of the best typefaces from the Google web fonts directory](#)[Can I use woff? \(compatibility information\)](#)

999 fonts by fam



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Get eot, ttf, svg, woff and woff2 files + CSS snippets

Star

6,770

Order by

Family

Category

Popularity

Last modified

Number of styles

Number of charsets

↓ descending

ABeeZee sans-serif

Abel sans-serif

Abhaya Libre serif

Abril Fatface display

Aclonica sans-serif

Acme sans-serif

Actor sans-serif

Adamina serif

Advent Pro sans-serif

Aguafina Script
handwriting

Akronim display

Aladin handwriting

Alata sans-serif

Alatsi sans-serif

Aldrich sans-serif

Alef sans-serif

Algrove serif

Various ways to sort

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Star

6,770

Roboto Rank 1

Open Sans Rank 2

Lato Rank 3

Noto Sans JP Rank 4

Montserrat Rank 5

Roboto Condensed Rank 6

Source Sans Pro Rank 7

Oswald Rank 8

Raleway Rank 9

Roboto Mono Rank 10

Poppins Rank 11

Noto Sans Rank 12

Roboto Slab Rank 13

Merriweather Rank 14

Ubuntu Rank 15

Ordered by popularity at Google Fonts

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Star

6,770

Barlow 18 styles

Barlow Condensed
18 styles

Barlow Semi
Condensed 18 styles

Epilogue 18 styles

Exo 18 styles

Exo 2 18 styles

Fira Sans 18 styles

Fira Sans
Condensed 18 styles

Fira Sans Extra
Condensed 18 styles

Grenze 18 styles

Jost 18 styles

Kanit 18 styles

Libre Franklin 18
styles

Montserrat 18 styles

Montserrat
Alternates 18 styles

Ordered by number of styles (fonts)

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source



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Star

6,770

Source Code Pro 14
styles

Source Sans Pro 12
styles

Source Serif Pro 12
styles

Filter typefaces by name

google-webfonts-helper

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Select a font to continue...

[View project on GitHub](#)

[Read the author's note](#)

[API](#)

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[Beautiful Web Type - A showcase of the best typefaces from the Google web fonts directory](#)

[Can I use woff? \(compatibility information\)](#)

[WOFF 2.0 – Learn more about the next generation Web Font Format](#)

Arimo 4 styles

Arimo

sans-serif

4 styles regular, italic, 700, 700italic

8 charsets cyrillic, cyrillic-ext, greek, greek-ext, hebrew, latin, latin-ext, vietnamese

Rank 41 in popularity of 999 fonts in total

Last modified 2019-07-22 (v13)



1. Select charsets: (default is latin)

☐ cyrillic ☐ cyrillic-ext ☐ greek ☐ greek-ext ☐ hebrew ☒ latin ☐ latin-ext ☐ vietnamese

2. Select styles: (default is regular)

Preview size

16

px

-

+

Sample text editable.

- ☒ regular
- The quick brown fox jumps over the lazy dog.
- ☐ italic
- The quick brown fox jumps over the lazy dog.*
- ☐ 700
- The quick brown fox jumps over the lazy dog.**
- ☐ 700italic
- The quick brown fox jumps over the lazy dog.***

3. Copy CSS: (default is Best Support)

Best Support

Modern Browsers

Arimo 4 styles

Arimo

sans-serif

4 styles regular, 700, italic, 700italic

8 charsets cyrillic, cyrillic-ext, greek, greek-ext, hebrew, latin, latin-ext, vietnamese

Rank 41 in popularity of 999 fonts in total

Last modified 2019-07-22 (v13)

1. Select charsets: (default is latin)

☐ cyrillic

☐ cyrillic-ext

☐ greek

☐ greek-ext

☐ hebrew

☒ latin

☒ latin-ext

☐ vietnamese

2. Select styles: (default is regular)

Preview size

16

px

-

+

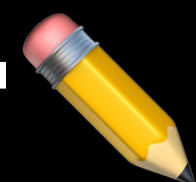
Sample text editable.

- ☒ regularThe quick brown fox jumps over the lazy dog.
- ☐ 700**The quick brown fox jumps over the lazy dog.**
- ☐ italic*The quick brown fox jumps over the lazy dog.*
- ☐ 700italic***The quick brown fox jumps over the lazy dog.***

3. Copy CSS: (default is Best Support)

Best Support

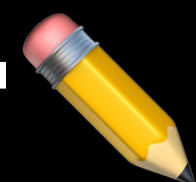
Modern Browsers



SIDE NOTE

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|--------|----|----|----|----|---|---|---|---|---|---|----|---|---|----|----|----|
| U+010x | Ā | ā | Ă | ă | Ą | ą | Ć | ć | Ĉ | ĉ | Ċ | ċ | Č | č | Ď | ď |
| U+011x | Đ | đ | Ē | ē | Ě | ě | Ė | ė | Ę | ę | Ĕ | ĕ | Ĝ | ĝ | Ğ | ğ |
| U+012x | Ġ | ġ | Ģ | ģ | Ĥ | ĥ | Ħ | ħ | Ĩ | ĩ | Ī | ī | Ĭ | ĭ | Ĵ | ĵ |
| U+013x | İ | ı | Ĳ | ĳ | Ĵ | ĵ | Ķ | ķ | κ | Ĺ | ĺ | Ł | ł | Ł' | ł' | Ł̣ |
| U+014x | Ł̣ | ł̣ | Ł̇ | ł̇ | Ń | ń | Ņ | ņ | Ň | ň | 'n | Ŋ | ŋ | Ō | ō | Ŏ |
| U+015x | Ŏ | ŏ | Œ | œ | Ř | ř | Ŕ | ŗ | Ř | ř | Ś | ś | Ŝ | ŝ | Ş | ş |
| U+016x | Š | š | Ț | ț | Ț | ț | Ț | ț | Ț | ț | Ț | ț | Ț | ț | Ț | ț |
| U+017x | Ț | ț | Ț | ț | Ț | ț | Ț | ț | Ț | ț | Ț | ț | Ț | ț | Ț | ț |

Latin Extended-A: Unicode block for Latin, Czech, Dutch, Polish, & Turkish alphabets



SIDE NOTE

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U+018x | Ḕ | Ḗ | Ḑ | Ḓ | Ḕ | Ḗ | Ḑ | Ḓ | Ḕ | Ḗ | Ḑ | Ḓ | Ḕ | Ḗ | Ḑ | Ḓ |
| U+019x | Ḙ | Ḛ | Ḝ | Ḟ | Ḡ | Ḣ | Ḥ | Ḧ | Ḩ | Ḫ | Ḭ | Ḯ | Ḱ | Ḳ | Ḵ | Ḷ |
| U+01Ax | Ḙ | Ḛ | Ḝ | Ḟ | Ḡ | Ḣ | Ḥ | Ḧ | Ḩ | Ḫ | Ḭ | Ḯ | Ḱ | Ḳ | Ḵ | Ḷ |
| U+01Bx | Ḙ | Ḛ | Ḝ | Ḟ | Ḡ | Ḣ | Ḥ | Ḧ | Ḩ | Ḫ | Ḭ | Ḯ | Ḱ | Ḳ | Ḵ | Ḷ |
| U+01Cx | Ḙ | Ḛ | Ḝ | Ḟ | Ḡ | Ḣ | Ḥ | Ḧ | Ḩ | Ḫ | Ḭ | Ḯ | Ḱ | Ḳ | Ḵ | Ḷ |
| U+01Dx | Ḙ | Ḛ | Ḝ | Ḟ | Ḡ | Ḣ | Ḥ | Ḧ | Ḩ | Ḫ | Ḭ | Ḯ | Ḱ | Ḳ | Ḵ | Ḷ |
| U+01Ex | Ḙ | Ḛ | Ḝ | Ḟ | Ḡ | Ḣ | Ḥ | Ḧ | Ḩ | Ḫ | Ḭ | Ḯ | Ḱ | Ḳ | Ḵ | Ḷ |
| U+01Fx | Ḙ | Ḛ | Ḝ | Ḟ | Ḡ | Ḣ | Ḥ | Ḧ | Ḩ | Ḫ | Ḭ | Ḯ | Ḱ | Ḳ | Ḵ | Ḷ |
| U+020x | Ḙ | Ḛ | Ḝ | Ḟ | Ḡ | Ḣ | Ḥ | Ḧ | Ḩ | Ḫ | Ḭ | Ḯ | Ḱ | Ḳ | Ḵ | Ḷ |
| U+021x | Ḙ | Ḛ | Ḝ | Ḟ | Ḡ | Ḣ | Ḥ | Ḧ | Ḩ | Ḫ | Ḭ | Ḯ | Ḱ | Ḳ | Ḵ | Ḷ |
| U+022x | Ḙ | Ḛ | Ḝ | Ḟ | Ḡ | Ḣ | Ḥ | Ḧ | Ḩ | Ḫ | Ḭ | Ḯ | Ḱ | Ḳ | Ḵ | Ḷ |
| U+023x | Ḙ | Ḛ | Ḝ | Ḟ | Ḡ | Ḣ | Ḥ | Ḧ | Ḩ | Ḫ | Ḭ | Ḯ | Ḱ | Ḳ | Ḵ | Ḷ |
| U+024x | Ḙ | Ḛ | Ḝ | Ḟ | Ḡ | Ḣ | Ḥ | Ḧ | Ḩ | Ḫ | Ḭ | Ḯ | Ḱ | Ḳ | Ḵ | Ḷ |

Latin Extended-B: Africa, Pan-Nigerian, Americanist, Khoisan, Pinyin, & Romanian alphabets

- ABeeZee sans-serif
- Abel sans-serif
- Abril Fatface display
- Aclonica sans-serif
- Acme sans-serif
- Actor sans-serif
- Adamina serif
- Advent Pro sans-serif
- Aguafina Script handwriting
- Akronim display
- Aladin handwriting
- Aldrich sans-serif
- Alef sans-serif
- Alegreya serif
- Alegreya Sans sans-serif
- Alegreya Sans SC

Arimo

sans-serif

4 styles regular, italic, 700, 700italic

8 charsets latin, cyrillic-ext, hebrew, vietnamese, cyrillic, latin-ext, greek, greek-ext

Rank 17 in popularity of 733 fonts in total

Last modified 2016-02-23 (v9)

1. Select charsets: (default is latin)

☐ cyrillic ☐ cyrillic-ext ☐ greek ☐ greek-ext ☐ hebrew ☒ latin ☐ latin-ext ☐ vietnamese

2. Select styles: (default is regular)

Preview size

16

⌵

px

-

+

Sample text editable.

- ☒ regularThe quick brown fox jumps over the lazy dog.
- ☒ italic*The quick brown fox jumps over the lazy dog.*
- ☒ 700**The quick brown fox jumps over the lazy dog.**
- ☐ 700italic***The quick brown fox jumps over the lazy dog.***

Choose styles (fonts)

3. Copy CSS: (default is Best Support)

Best Support

Modern Browsers

Arimo 4 styles

3. Copy CSS: (default is **Best Support**)

Best Support

Modern Browsers

Choose **Best Support** if old browsers still need to be supported. Formats in this snippet: **[eot,woff,woff2,ttf,svg]**

```
/* arimo-regular - latin-ext_latin */
@font-face {
  font-family: 'Arimo';
  font-style: normal;
  font-weight: 400;
  src: url('../fonts/arimo-v13-latin-ext_latin-regular.eot'); /* IE9 Compat Modes */
  src: local('Arimo Regular'), local('Arimo-Regular'),
        url('../fonts/arimo-v13-latin-ext_latin-regular.eot?#iefix') format('embedded-opentype'), /* IE6-IE8 */
        url('../fonts/arimo-v13-latin-ext_latin-regular.woff2') format('woff2'), /* Super Modern Browsers */
        url('../fonts/arimo-v13-latin-ext_latin-regular.woff') format('woff'), /* Modern Browsers */
        url('../fonts/arimo-v13-latin-ext_latin-regular.ttf') format('truetype'), /* Safari, Android, iOS */
        url('../fonts/arimo-v13-latin-ext_latin-regular.svg#Arimo') format('svg'); /* Legacy iOS */
}

/* arimo-700 - latin-ext_latin */
@font-face {
  font-family: 'Arimo';
  font-style: normal;
  font-weight: 700;
  src: url('../fonts/arimo-v13-latin-ext_latin-700.eot'); /* IE9 Compat Modes */
  src: local('Arimo Bold'), local('Arimo-Bold'),
        url('../fonts/arimo-v13-latin-ext_latin-700.eot?#iefix') format('embedded-opentype'), /* IE6-IE8 */
        url('../fonts/arimo-v13-latin-ext_latin-700.woff2') format('woff2'), /* Super Modern Browsers */
        url('../fonts/arimo-v13-latin-ext_latin-700.woff') format('woff'), /* Modern Browsers */
        url('../fonts/arimo-v13-latin-ext_latin-700.ttf') format('truetype'), /* Safari, Android, iOS */
}
```


Arimo 4 styles

3. Copy CSS: (default is **Best Support**)

Best Support

Modern Browsers

Choose **Modern Browsers** if supporting old browsers is not relevant. Formats in this snippet: **[woff,woff2]**

```
/* arimo-regular - latin-ext_latin */
@font-face {
  font-family: 'Arimo';
  font-style: normal;
  font-weight: 400;
  src: local('Arimo Regular'), local('Arimo-Regular'),
       url('../fonts/arimo-v13-latin-ext_latin-regular.woff2') format('woff2'), /* Chrome 26+, Opera 23+, Firefo
x 39+ */
       url('../fonts/arimo-v13-latin-ext_latin-regular.woff') format('woff'); /* Chrome 6+, Firefox 3.6+, IE 9+,
Safari 5.1+ */
}
/* arimo-700 - latin-ext_latin */
@font-face {
  font-family: 'Arimo';
  font-style: normal;
  font-weight: 700;
  src: local('Arimo Bold'), local('Arimo-Bold'),
       url('../fonts/arimo-v13-latin-ext_latin-700.woff2') format('woff2'), /* Chrome 26+, Opera 23+, Firefox 39
+ */
       url('../fonts/arimo-v13-latin-ext_latin-700.woff') format('woff'); /* Chrome 6+, Firefox 3.6+, IE 9+, Saf
ari 5.1+ */
}
/* arimo-italic - latin-ext_latin */
@font-face {
```


arimo



google-webfonts-helper

Get eot, ttf, svg, woff and woff2 files + CSS snippets



6,770

Arimo 4 styles

```
url('../fonts/arimo-v13-latin-ext_latin-700.woff2') format('woff2'), /* Chrome 26+, Opera 23+, Firefox 39
+ */
url('../fonts/arimo-v13-latin-ext_latin-700.woff') format('woff'); /* Chrome 6+, Firefox 3.6+, IE 9+, Saf
ari 5.1+ */
}
/* arimo-italic - latin-ext_latin */
@font-face {
  font-family: 'Arimo';
  font-style: italic;
  font-weight: 400;
  src: local('Arimo Italic'), local('Arimo-Italic'),
      url('../fonts/arimo-v13-latin-ext_latin-italic.woff2') format('woff2'), /* Chrome 26+, Opera 23+, Firefox
39+ */
      url('../fonts/arimo-v13-latin-ext_latin-italic.woff') format('woff'); /* Chrome 6+, Firefox 3.6+, IE 9+,
Safari 5.1+ */
}
```

Customize folder prefix (optional):

Click on code to select all statements, then copy/paste it into your own CSS file

4. Download files:

Your generated archive for **Arimo** with charsets **[latin-ext,latin]** and styles **[700,regular,italic]** includes the formats **[woff,woff2]**.



arimo-v13-latin-ext_latin.zip

Fonts are copyright of their respective authors.

See [Google Fonts Open Source Font Attribution](#) to find out the specific license that this font uses.

I don't want to
use **../fonts/**
with **..** at the start

arimo



google-webfonts-helper

Get eot, ttf, svg, woff and woff2 files + CSS snippets



6,770

Arimo 4 styles

```
url('/fonts/arimo-v13-latin-ext_latin-700.woff2') format('woff2'), /* Chrome 26+, Opera 23+, Firefox 39+ */
url('/fonts/arimo-v13-latin-ext_latin-700.woff') format('woff'); /* Chrome 6+, Firefox 3.6+, IE 9+, Safari 5.1+ */
/* arimo-italic - latin-ext_latin */
@font-face {
  font-family: 'Arimo';
  font-style: italic;
  font-weight: 400;
  src: local('Arimo Italic'), local('Arimo-Italic'),
       url('/fonts/arimo-v13-latin-ext_latin-italic.woff2') format('woff2'), /* Chrome 26+, Opera 23+, Firefox 39+ */
       url('/fonts/arimo-v13-latin-ext_latin-italic.woff') format('woff'); /* Chrome 6+, Firefox 3.6+, IE 9+, Safari 5.1+ */
}
```

Customize folder prefix (optional):

Click on code to select all statements, then copy/paste it into your own

The correct path is `/fonts/`
(assuming CSS in `/css` &
fonts in `/fonts`)

4. Download files:

Your generated archive for **Arimo** with charsets `[latin-ext,latin]` and styles `[700,regular,italic]` includes the formats `[woff,woff2]`.

arimo-v13-latin-ext_latin.zip

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arimo



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Get eot, ttf, svg, woff and woff2 files + CSS snippets



6,770

Arimo 4 styles

```
        url('/fonts/arimo-v13-latin-ext_latin-700.woff2') format('woff2'), /* Chrome 26+, Opera 23+, Firefox 39+
*/
        url('/fonts/arimo-v13-latin-ext_latin-700.woff') format('woff'); /* Chrome 6+, Firefox 3.6+, IE 9+, Safari
5.1+ */
}
/* arimo-italic - latin-ext_latin */
@font-face {
  font-family: 'Arimo';
  font-style: italic;
  font-weight: 400;
  src: local('Arimo Italic'), local('Arimo-Italic'),
        url('/fonts/arimo-v13-latin-ext_latin-italic.woff2') format('woff2'), /* Chrome 26+, Opera 23+, Firefox 3
9+ */
        url('/fonts/arimo-v13-latin-ext_latin-italic.woff') format('woff'); /* Chrome 6+, Firefox 3.6+, IE 9+, Sa
fari 5.1+ */
}
```

Customize folder prefix (optional):

Click on code to select all statements, then copy/paste it into your own CSS file.

4. Download files:

Your generated archive for **Arimo** with charsets **[latin-ext,latin]** and styles **[700,regular,italic]** includes the formats **[woff,woff2]**.



arimo-v13-latin-ext_latin.zip

Click to download fonts

Fonts are copyright of their respective authors.

See [Google Fonts Open Source Font Attribution](#) to find out the specific license that this font uses.

arimo



google-webfonts-helper

Get eot, ttf, svg, woff and woff2 files + CSS snippets



6,770

Arimo 4 styles

```
url('/fonts/arimo-v13-latin-ext_latin-700.woff2') format('woff2'), /* Chrome 26+, Opera 23+, Firefox 39+
*/
url('/fonts/arimo-v13-latin-ext_latin-700.woff') format('woff'); /* Chrome 6+, Firefox 3.6+, IE 9+, Safari
5.1+ */
}

/* arimo-italic - latin-ext_latin */
@font-face {
  font-family: 'Arimo';
  font-style: italic;
  font-weight: 400;
  src: local('Arimo Italic'), local('Arimo-Italic'),
    url('/fonts/arimo-v13-latin-ext_latin-italic.woff2') format('woff2'), /* Chrome 26+, Opera 23+, Firefox 3
9+ */
    url('/fonts/arimo-v13-latin-ext_latin-italic.woff') format('woff'); /* Chrome 6+, Firefox 3.6+, IE 9+, Sa
fari 5.1+ */
}
```

Customize folder prefix (optional):

Click on code to select all statements, then copy/paste it into your own CSS file.

4. Download files:

Your generated archive for **Arimo** with charsets **[latin-ext, latin]** and styles **[7**



arimo-v13-latin-ext_latin.zip

Fonts are copyright of their respective authors.

See [Google Fonts Open Source Font Attribution](#) to find out the specific license that this font uses.

Click anywhere in
gray box to select all
the CSS, then copy &
paste into your CSS

- arimo-v11-latin-700.woff
- arimo-v11-latin-700.woff2
- arimo-v11-latin-italic.woff
- arimo-v11-latin-italic.woff2
- arimo-v11-latin-regular.woff
- arimo-v11-latin-regular.woff2

After unzipping `arimo-v11-latin-ext_latin.zip`, (or whatever it's named) move the font files into your project's `fonts` folder

Now let's correct the CSS...

Change name to Body

```
/* arimo-regular - latin */
```

```
@font-face {
```

```
  font-family: 'Arimo';
```

```
  font-style: normal;
```

```
  font-weight: 400;
```

Remove local('Arimo'),

```
  src: local('Arimo Regular'), local('Arimo-  
Regular');
```

```
    url('/fonts/arimo-v13-latin-regular.woff2')
```

```
format('woff2'), /* Chrome 26+, Opera 23+, Firefox  
39+ */
```

```
    url('/fonts/arimo-v13-latin-regular.woff')
```

```
format('woff'); /* Chrome 6+, Firefox 3.6+, IE 9+,  
Safari 5.1+ */
```

Remove comments

```
}
```



```
@font-face {  
  font-family: 'Body';  
  font-style: normal;  
  font-weight: 400;  
  src: url('/fonts/arimo-v13-latin-regular.  
woff2') format('woff2'),  
        url('/fonts/arimo-v13-latin-regular.  
woff') format('woff');  
}
```

Much better!

```
@font-face {  
  font-family: 'Arimo';  
  font-style: normal;  
  font-weight: 400;  
}
```

```
@font-face {  
  font-family: 'Arimo';  
  font-style: italic;  
  font-weight: 400;  
}
```

```
@font-face {  
  font-family: 'Arimo';  
  font-style: normal;  
  font-weight: 700;  
}
```

```
@font-face {  
  font-family: 'Source Serif Pro';  
  font-style: normal;  
  font-weight: 700;  
}
```

Change all **Arimo** to **Body**
& **Source Serif Pro** to **Heading**
& get rid of all useless '

```
@font-face {  
  font-family: 'Body';  
  font-style: normal;  
  font-weight: 400;  
  src: ...  
}  
  
@font-face {  
  font-family: 'Arimo';  
  font-style: italic;  
  font-weight: 400;  
  src: ...  
}
```

```
@font-face {  
  font-family: 'Arimo';  
  font-style: normal;  
  font-weight: 700;  
  src: ...  
}  
  
@font-face {  
  font-family: 'Source  
Serif Pro';  
  font-style: normal;  
  font-weight: 700;  
  src: ...  
}
```

Change Arimo to Body & Source Serif Pro to Heading


```
@font-face {  
  font-family: 'Body';  
  font-style: normal;  
  font-weight: 400;  
  src: ...  
}  
  
@font-face {  
  font-family: 'Body';  
  font-style: italic;  
  font-weight: 400;  
  src: ...  
}
```

```
@font-face {  
  font-family: 'Body';  
  font-style: normal;  
  font-weight: 700;  
  src: ...  
}  
  
@font-face {  
  font-family:  
  'Heading';  
  font-style: normal;  
  font-weight: 700;  
  src: ...  
}
```

Since our `font-family` is 1 word, get rid of all useless '

```
@font-face {  
  font-family: Body;  
  font-style: normal;  
  font-weight: 400;  
  src: ...  
}
```

```
@font-face {  
  font-family: Body;  
  font-style: italic;  
  font-weight: 400;  
  src: ...  
}
```

```
@font-face {  
  font-family: Body;  
  font-style: normal;  
  font-weight: 700;  
  src: ...  
}  
  
@font-face {  
  font-family: Heading;  
  font-style: normal;  
  font-weight: 700;  
  src: ...  
}
```

The browser knows when to use `400`, `400 italic`, `700`, ...

Variable Fonts

| Variation | Example | CSS |
|-----------|------------------------|--------------------------|
| weight | Univers-Bold.ttf | font-weight: bold; |
| width | UniversCond.ttf | font-stretch: condensed; |
| style | UniversCond-BoldIt.ttf | font-style: italic; |

Currently you have a different font file for each weight, style, & width variation of a typeface, along with the appropriate CSS

That's a lot of files potentially to manage

And, if you embed the fonts, visitors need to download every file individually, leading to multiple server calls

For instance, Oswald consists of 6 different fonts:

Oswald-Bold.ttf (89.5 KB)

Oswald-ExtraLight.ttf (89.2 KB)

Oswald-Light.ttf (89.3 KB)

Oswald-Medium.ttf (89.5 KB)

Oswald-Regular.ttf (89.2 KB)

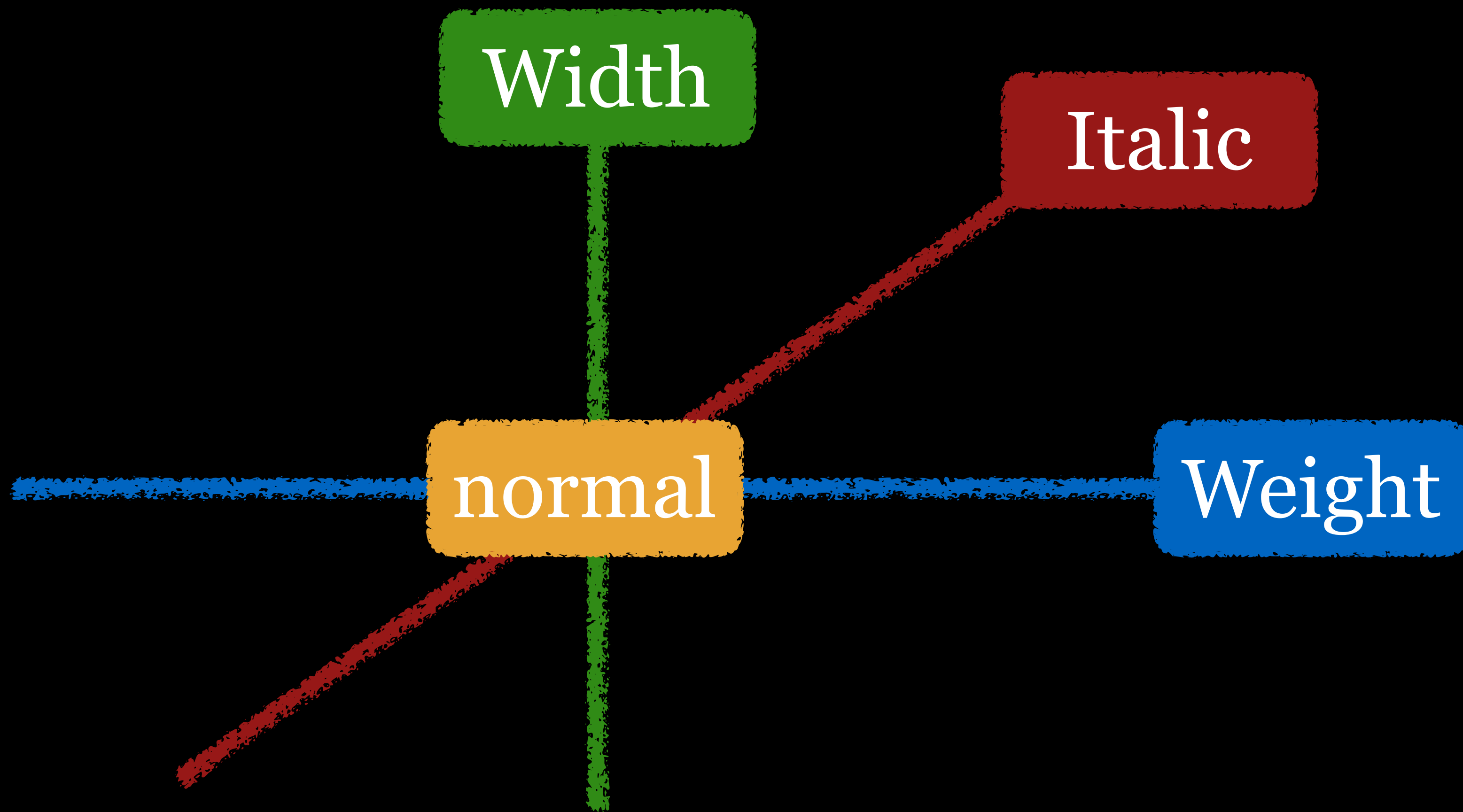
Oswald-SemiBold.ttf (89.5 KB)

Total: 536.2 KB

Variable fonts combine all of those variations into a single file; e.g., `CrimsonPro-VariableFont_wght.ttf`

Oswald's 6 different fonts totaled 536.2 KB

`Oswald-VariableFont_wght.ttf` is 149.5 KB!



There is one central default master (usually equivalent to `font-style: normal`) & 1 or more *axes of variation* which tie the central default master to other masters that define design aspects of the font

Each axis of variation provides an allowable range for that aspect of the typeface design, labeled using a 4-letter tag; e.g., weight (**wght**) or width (**wdth**)

Instances are the individual styles located along particular axes; e.g.:

```
font-variation-settings: 'wght' 375, 'wdth' 85;
```

2 kinds of axis:

- » *registered*: 5 common axes standardized by the W3C
- » *custom*: axes created by the typeface designer

Some custom axes may become so common that the W3C eventually adds them to the registered group

Registered axes must use lowercase tags, while custom axes must use uppercase tags

```
font-variation-settings: 'wght' 475, 'GRAD' 88;
```


Registered Axes of Variation

The 5 registered axes:

1. Weight
2. Width
3. Italic
4. Slant
5. Optical Size

Weight

Weight goes from thin to thick, from light to heavy

W3C sets range between 1–1000

Tag: `wght`

```
font-weight: 575;
```

```
font-variation-settings: 'wght' 575;
```

Width

Width goes from narrow to wide, from condensed to extended

W3C sets range between 50–200%, but commonly set between 75–125%

Tag: `width`

```
font-stretch: 85%;
```

```
font-variation-settings: 'width' 85; (note: no %  
here)
```


The W3C range of 50–200% means the following:

- » 50% is ultra-condensed
- » 100% is normal
- » 200% is ultra-expanded

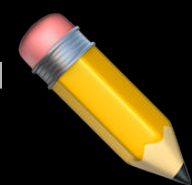
Italic

Italic is either off or on

W3C sets values to either 0 (off) or 1 (on)

Tag: *ital*

```
font-style: italic;  
font-variation-settings: 'ital' 1;  
font-synthesis: none;
```

SIDE NOTE

font-synthesis

Tells browsers if they can *create bold or italic typefaces on the fly* if they are missing

Values:

- » **weight**: create bold if needed
- » **style**: create italic if needed
- » **weight style**: create both bold & italic if needed (default)
- » **none**: create neither bold nor italic

| | | | | | | | |
|----------------|--|---|---|---|-----|---|---|
| |  |  |  |  | ios |  |  |
| font-synthesis | — | 97 | 34 | 9 | 9 | 97 | 97 |

Slant

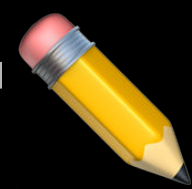
Slant changes the angle the typeface leans

W3C sets range between $-90-90^\circ$, but commonly set between $0-20^\circ$

Tag: `slnt`

```
font-style: oblique 14deg;
```

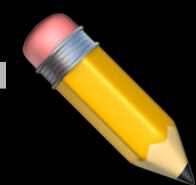
```
font-variation-settings: 'slnt' 14; (note: no deg  
here)
```



SIDE NOTE

For centuries, typographers have used *optical sizing* to make text look better at different sizes, for legibility or aesthetic reasons

Optical sizing varies the overall stroke thickness of glyphs based on how big they are

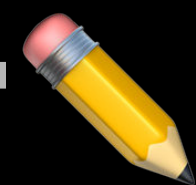


SIDE NOTE

For example:

- » If the size was small (e.g., `10px` or `12px`), characters have a thicker stroke & larger serifs for better readability
- » If the size was larger (e.g., `48px` or `60px`), characters vary thick & thin strokes

Before variable fonts, we had to try to do everything with `font-size`, but now we have more control



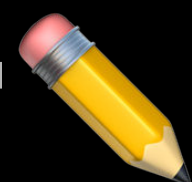
SIDE NOTE

`font-optical-sizing`

Created to support variable fonts & specifies whether text rendering is optimized for viewing at different sizes

Values:

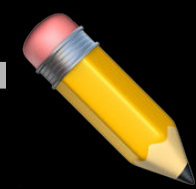
- » `none`: browser *will not* modify glyph shapes for optimal viewing
- » `auto`: browser *will* modify glyph shapes for optimal viewing



SIDE NOTE

Obviously `font-optical-sizing` only works for fonts that have a variation axis for *optical size* (coming up!)

| | | | | | | | |
|-----------------------------|--|---|---|---|-----|---|---|
| |  |  |  |  | ios |  |  |
| font-
optical-
sizing | – | 17 | 66 | 11 | 11 | 79 | 79 |



SIDE NOTE

Note that `font-optical-sizing` is limited to on (`auto`) or off (`none`), but what if you want to be more specific?

Use `font-variation-settings` with the `opxz` tag

Optical Size

Optical size specifies a numeric value for font size

Normally the same number as `font-size` property, but you can provide a different number if it is necessary to override the default

Tag: `opxz`

```
font-optical-sizing: auto;  
font-variation-settings: 'opsz' 36;
```


Custom Axes of Variation

Grade

Grade (' **GRAD** ') is widely used & may become registered, as it has been used in typography historically

Grade refers to the relative weight or density of the typeface

When a typeface's *weight* changes, the physical space taken up by the text changes too, which also changes the layout of the text & the elements around it

When a typeface's *grade* changes, the physical space taken up by the text does *not* change, so it does *not* change any layout

Grade can therefore be used to vary or animate text without causing reflow of the layout

```
font-variation-settings: 'GRAD' 88;
```

Finding Out a Font's Axes of Variation

Axes have very broad ranges; e.g., `wght` can be anywhere from `1–1000` & `wdth` can be anywhere from `50–200%`

Most typographers set smaller ranges than those, however!

But how do you find out what the ranges are for a specific font?

[Help](#)[Sponsor](#)[Log in](#)[Register](#)

fonttools 4.10.2

[Latest version](#)

```
pip install fonttools
```



Released: May 20, 2020

Tools to manipulate font files

Navigation

[Project description](#)[Release history](#)[Download files](#)

Project links

Project description

build passing build passing codecov 80% pypi v4.10.2 chat on gitter

What is this?

fontTools is a library for manipulating fonts, written in Python. The project includes the TTX tool, that can convert TrueType and OpenType fonts to and from an XML text format, which is also called TTX. It supports TrueType, OpenType, AFM and to an extent Type 1 and some Mac-specific formats. The project has an [MIT open-source licence](#). Among other things this means you can use it free of charge.

User documentation <<https://fonttools.readthedocs.io/en/latest/>> and developer documentation

[Help](#)[Sponsor](#)[Log in](#)[Register](#)

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User documentation <<https://fonttools.readthedocs.io/en/latest/>> and developer documentation

To install fonttools, install Python (already installed on macOS & Linux) & then `pip install fonttools`

On my Mac, I installed Homebrew (see [brew.sh](#)) & then ran `brew install fonttools`

Once installed, I wanted to see the axes available in Oswald-VariableFont.ttf

```
$ ttx Oswald-VariableFont.ttf
```

```
Dumping "Oswald-VariableFont.ttf" to "Oswald-VariableFont.ttx"...
```

```
Dumping 'GlyphOrder' table...
```

```
Dumping 'head' table...
```

```
...
```

```
Dumping 'glyf' table...
```

```
Dumping 'name' table...
```

```
Dumping 'post' table...
```

```
Dumping 'gasp' table...
```

```
Dumping 'GDEF' table...
```

```
Dumping 'GPOS' table...
```

```
...
```

```
Dumping 'fvar' table...
```

```
Dumping 'gvar' table...
```

24 tables were dumped

Oswald-VariableFont.ttx
was 88,248 lines!

Instead use the `-t` option, which lets you specify a table to dump

```
$ ttx -t fvar CrimsonPro-Italic-  
VariableFont.ttf  
Dumping "CrimsonPro-Italic-VariableFont.ttf"  
to "CrimsonPro-Italic-VariableFont.ttx"...  
Dumping 'fvar' table...
```



```
<?xml version="1.0" encoding="UTF-8"?>
<ttFont sfntVersion="\x00\x01\x00\x00" ttLibVersion="4.10">
```

```
<fvar>
```

```
<!-- Weight -->
```

```
<Axis>
```

```
<AxisTag>wght</AxisTag>
```

```
<Flags>0x0</Flags>
```

```
<MinValue>200.0</MinValue>
```

```
<DefaultValue>200.0</DefaultValue>
```

```
<MaxValue>900.0</MaxValue>
```

```
<AxisNameID>256</AxisNameID>
```

```
</Axis>
```

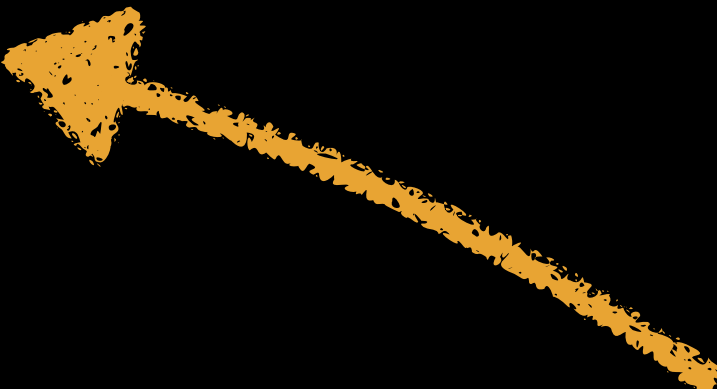
```
</fvar>
```

```
</ttFont>
```

Only 1 axis: **wght**



Values range from
200 to **900**,
defaulting to **200**



Let's try a different font

```
$ ttx -t fvar Amstelvar-Roman.ttf  
Dumping "Amstelvar-Roman.ttf" to "Amstelvar-  
Roman.ttx"...  
Dumping 'fvar' table...
```

```
<?xml version="1.0" encoding="UTF-8"?>
<ttFont sfntVersion="\x00\x01\x00\x00"
ttLibVersion="4.10">
```

```
<fvar>
```

```
<!-- wght -->
```

```
<Axis>
```

```
<AxisTag>wght</AxisTag>
```

```
<Flags>0x0</Flags>
```

```
<MinValue>100.0</MinValue>
```

```
<DefaultValue>400.0</DefaultValue>
```

```
<MaxValue>900.0</MaxValue>
```

```
<AxisNameID>256</AxisNameID>
```

```
</Axis>
```

wght: 100—900,
defaulting to 400


```
<!-- width -->
<Axis>
  <AxisTag>width</AxisTag>
  <Flags>0x0</Flags>
  <MinValue>50.0</MinValue>
  <DefaultValue>100.0</DefaultValue>
  <MaxValue>125.0</MaxValue>
  <AxisNameID>257</AxisNameID>
</Axis>
```

width: 50–125,
defaulting to 100

```
<!-- opsz -->
<Axis>
  <AxisTag>opsz</AxisTag>
  <Flags>0x0</Flags>
  <MinValue>8.0</MinValue>
  <DefaultValue>14.0</DefaultValue>
  <MaxValue>144.0</MaxValue>
  <AxisNameID>258</AxisNameID>
</Axis>
```

opsz: 8–144,
defaulting to 14

```
<!-- GRAD -->
```

```
<Axis>
```

```
<AxisTag>GRAD</AxisTag>
```

```
<Flags>0x0</Flags>
```

```
<MinValue>-1.0</MinValue>
```

```
<DefaultValue>0.0</DefaultValue>
```

```
<MaxValue>1.0</MaxValue>
```

```
<AxisNameID>259</AxisNameID>
```

```
</Axis>
```

```
...
```

```
</fvar>
```

```
</ttFont>
```

GRAD: -1.0 — 1.0 ,
defaulting to 0



iOS



font-
variation-
settings

—

17

62

11

11

62

62

font-
variation-
settings
in @font-face

—

—

62

—

—

—

—

Variable Fonts

—

17

71^{*†}

13^{*}

13

67

81

* Requires macOS 10.15 Catalina & up † Requires Windows 10 1709 & up

Learn



Typography.Guru

The biggest online community for the field of typography.

Search term

[Search](#)

[Or sign up to post](#)

Thank you!

scott@granneman.com

www.granneman.com

ChainsawOnATireSwing.com

@scottgranneman

jans@websanity.com

websanity.com

Appendix A

font-variant &

OpenType Equivalents

Values for `font-variant-caps` & their OpenType equivalents:

- » `small-caps: smcp`
- » `all-small-caps: c2sc, smcp`
- » `petite-caps: pcap`
- » `all-petite-caps: c2pc, pcap`
- » `unicase: unic`
- » `titling-caps: titl`

Values for `font-variant-numeric` & their OpenType equivalents:

- » `ordinal: ordn`
- » `slashed-zero: zero`
- » `lining-nums: lnum`
- » `oldstyle-nums: onum`
- » `proportional-nums: pnum`
- » `tabular-nums: tnum`
- » `diagonal-fractions: frac`
- » `stacked-fractions: afrc`

Bonus

The following slides contain extra, bonus information
that we don't have time to cover in class

Basics

Testing

Typographers have certain words & phrases they use to
test their fonts

Xiite

Tobias Frere-Jones

Futura Std

HAMBURGFONTSIV

Jesse Ragan

Caxton Roman Book

zwyły

Verena Gerlach

Avenir Next

• •
minimom

Matteo Bologna

Didot

Högertrafikomläggningen

Jackson Cavanaugh

Source Serif Pro

Handgloves

Erik Spiekermann

CMU Serif

Château d'Yquem

Malou Verlomme

Oswald

difficult waffles

Berton Hasebe

Adobe Caslon Pro

Typography & the Web

Operating System Defaults

WINDOWS 95

Fonts
Arial
Arial Bold
Arial Bold Italic
Arial Italic
Courier
Courier New
Courier New Bold
Courier New Bold Italic
Courier New Italic
Modern
MS Sans Serif
MS Serif
Small Fonts
Symbol
Times New Roman
Times New Roman Bold
Times New Roman Italic
Times New Roman Bld Italic
Wingdings

WINDOWS 98

New Fonts
Abadi MT Condensed Light
Aharoni Bold
Arial Black
Book Antiqua
Calisto MT
Century Gothic
Century Gothic Bold
Century Gothic Bold Italic
Century Gothic Italic
Comic San MS
Comic San MS Bold
Copperplate Gothic Bold
Copperplate Gothic Light
Impact
Lucida Console
Lucida Handwriting Italic
Lucida Sans Italic
Lucida Sans Unicode
Marlett
Matisse ITC
News Gothic MT
News Gothic MT Bold
News Gothic MT Italic
OCR A Extended
Tahoma
Tahoma Bold
Tempus Sans ITC
Verdana
Verdana Bold
Verdana Bold Italic
Verdana Italic
Webdings
Westminster

WINDOWS 2000

New Fonts
Comic Sans MS
Comic Sans MS Bold
Georgia
Georgia Bold
Georgia Bold Italic
Georgia Italic
Impact
Mangal
Microsoft Sans Serif
Palatino Linotype
Palatino Linotype Bold
Palatino Linotype Bld Italic
Palatino Linotype Italic
Roman
Script
Trebuchet MS
Trebuchet MS Bold
Trebuchet MS Bold Italic
Trebuchet MS Italic
Wingdings

WINDOWS XP

New Fonts
Estrangelo Edessa
Franklin Gothic Medium
Franklin Gothic Med. Italic
Gautami
Kartika
Latha
Lucida Console
Lucida Sans Demibold
Lucida Sans Demibold Italic
Lucida Sans Unicode
Modern
Mv Boli
Plantagenet Cherokee
Raavi
Script
Shruti
Sylfaen
Tunga
Vrinda
WST_Czec
WST_Engl
WST_Fren
WST_Germ
WST_Ital
WST_Span
WST_Swed

WINDOWS Vista

New Fonts
Cambria
Calibri
Candara
Consolas
Constantina
Corbel
Nyala
Segoe UI

NOTE:
The new Vista fonts are the newer cleartype format designed for the new Vista display technology. Microsoft designed these to become replacements for:

Cambria = Georga and Times New Roman

Calibri = Arial

Candara = Trebuchet MS and Helvetica

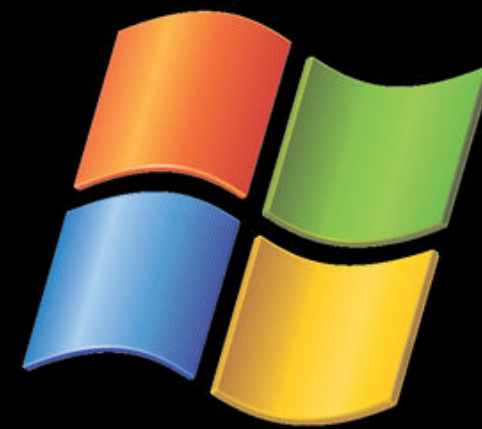
Consolas = Lucidia Console and Courier New

Constantia = Georga and Palatino

Corbel = Verdana

WINDOWS 7

New Fonts
Gabriola
Segoe Print
Segoe Print Bold
Segoe Script
Segoe Script Bold
Segoe UI Light
Segoe UI Semibold
Segoe UI Symbol



| | |
|-------|-----|
| XP | 133 |
| Vista | 191 |
| 7 | 235 |
| 8 | 278 |



| | |
|--------------------|-----|
| 10.5 Leopard | 160 |
| 10.6 Snow Leopard | 248 |
| 10.7 Lion | 225 |
| 10.8 Mountain Lion | 242 |
| 10.9 Mavericks | 247 |

iOS

| | iPhone | iPad |
|---|--------|------|
| 3 | 44 | — |
| 4 | 41 | 67 |
| 5 | 57 | 57 |
| 6 | 61 | 61 |
| 7 | 71 | 71 |



| | |
|-----|---|
| 1-3 | 3 |
| 4 | 6 |



| | |
|---|----|
| 7 | 25 |
| 8 | 37 |

Font Stacks

Don't just focus on serif or sans-serif

Also look at width: wide (large *x-height*) & narrow (small *x-height*)

Try to group fonts in your stack by x-height for unity

| Sans serif | |
|--------------|-----------|
| Wide | Narrow |
| Verdana | Futura |
| Trebuchet MS | Helvetica |
| | Arial |
| | Avenir |

| Serif | |
|-----------------|-----------------|
| Wide | Narrow |
| Georgia | Times New Roman |
| Iowan Old Style | Times |
| Palatino | Baskerville |
| Superclarendon | Cochin |

| Monospace | |
|---------------------|-------------|
| Wide | Narrow |
| Courier | Andale Mono |
| Courier New | Menlo |
| American Typewriter | |

Punctuation

Generated Content

quotes

Specifies how rendering engines should render quotation marks

Only works with...

- » Elements that already generate quotation marks (**q**)
- » Quotation marks generated with **::before** & **::after**

⚙ HTML

```
1 <p>Lorem ipsum <q>dolor sit</q> amet.</p>
2
3 <p>Lorem ipsum <q lang="fr">dolor
  sit</q> amet.</p>
4
5 <p>Lorem ipsum <q>dolor <q>Lorem
  ipsum</q> sit</q> amet.</p>
6
7 <p lang="fr">Lorem ipsum <q>dolor
  <q>Lorem ipsum</q> sit</q> amet.</p>
8
9 <p lang="en">Lorem ipsum <q>dolor
  <q>Lorem ipsum</q> sit</q> amet</p>
```

⚙ CSS

```
1 /* These are default values set by the
   user agent (browser) */
2
3 [lang|=fr] {
4   quotes: "«" "»" "<" ">"
5 }
6
7 [lang|=en] { /* Needed for Safari */
8   quotes: "\"" "\"" "\'" "\'"
9 }
10
11 /* Not part of the lesson */
```

⚙ JS

Lorem ipsum “dolor sit” amet.

Lorem ipsum «dolor sit» amet.

Lorem ipsum “dolor ‘Lorem ipsum’ sit” amet.

Lorem ipsum «dolor ‹Lorem ipsum› sit» amet.

Lorem ipsum “dolor ‘Lorem ipsum’ sit” amet

HTML

```

1 <p>Lorem ipsum <q>dolor sit</q> amet.</p>
2
3 <p>Lorem ipsum <q lang="fr">dolor sit</q> amet.
  </p>
4
5 <p>Lorem ipsum <q>dolor <q>Lorem ipsum</q>
  sit</q> amet.</p>
6
7 <p lang="fr">Lorem ipsum <q>dolor <q>Lorem
  ipsum</q> sit</q> amet.</p>
8
9 <p lang="en">Lorem ipsum <q>dolor <q>Lorem
  ipsum</q> sit</q> amet</p>

```

CSS

```

1 /* These are default values set by the user
   agent (browser) */
2
3 [lang|=fr] {
4     quotes: "«" "»" "<" ">"
5 }
6
7 [lang|=en] { /* Needed for Safari */
8     quotes: "\"" "\"" "\"" "\""
9 }
10
11 /* Not part of the lesson */

```

JS

Lorem ipsum "dolor sit" amet.

Lorem ipsum «dolor sit» amet.

Lorem ipsum "dolor 'Lorem ipsum' sit" amet.

Lorem ipsum «dolor <Lorem ipsum> sit» amet.

Lorem ipsum “dolor ‘Lorem ipsum’ sit” amet

Embedded Fonts

Formats

SVG: Scalable Vector Graphics

XML-based file format describing 2D vector graphics,
both static & dynamic

Open standard developed by W3C since 1999

Warning! SVG was not designed for displaying fonts, so it
does a horrible job with multi-line text

If you're to use it for a word (like a logo), use SVG, not
SVG fonts

@font-face

```
@font-face {  
    font-family: MyHelvetica;  
    src: local("Helvetica Neue Bold.ttf"),  
        local("HelveticaNeue-Bold.ttf"),  
        url("http://www.foobar.com/  
            MgOpenModernaBold.ttf");  
}
```



local & url don't
have to point
to same font!

Licensing

Licensed fonts



FREE FONT UTOPIA

Free fonts have met their match. We know how hard it is to find quality freeware that is licensed for commercial work. We've done the hard work, hand-selecting these typefaces and presenting them in an easy-to-use format. Here are some of our favorites:

Source Sans Pro AaBbCcDdEeFfGgHhI

[Source Sans Pro](#)[Adobe](#)[12 Styles](#)[DOWNLOAD TTF](#)

Source Code Pro AaBbCcDdEe

[Source Code Pro](#)[Adobe](#)[7 Styles](#)[DOWNLOAD OTF](#)

Fira Sans AaBbCcDdEeFfGgHhIiJk

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your
WEBSITE
free online editor

FONT LISTS

[Recently Added](#)[Most Popular](#)[Hot Today](#)[Almost Free](#)[Tags](#)[Classifications](#)[Languages](#)[Foundries](#)

Specimens | Test Drive | Glyphs | License | Webfont Kit

abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
0123456789 (!@#\$%^&.,?;:)

Penultimate

The spirit is willing but the flesh is weak

SCHADENFREUDE



FONT LISTS

- Recently Added
- Most Popular
- Hot Today
- Almost Free
- Tags
- Classifications
- Languages
- Foundries

FIND FONTS

| CLASSIFICATIONS | | TAGS | |
|-----------------|-----|--------------|-----|
| Display | 264 | Paragraph | 357 |
| Sans Serif | 199 | Display | 237 |
| Serif | 114 | Oblique | 130 |
| Handdrawn | 56 | Headings | 116 |
| Script | 53 | Casual | 110 |
| Retro | 35 | Sans Serif | 108 |
| Slab Serif | 35 | Calligraphic | 80 |

Specimens

Test Drive

Glyphs

License

Webfont Kit

Webfont Kit

This font's license appears to allow you to use @font-face css embedding!

Choose a Subset:

Western Latin (Default)

Choose Font Formats:

☒ TTF ☒ EOT ☒ WOFF ☒ SVG

DOWNLOAD @FONT-FACE KIT

Subsetting:

Subsetting reduces the number of glyphs in the font to make a smaller file. If the font supports a particular language, it will appear in the menu.

Formats:

TTF - Works in most browsers except IE and iPhone.

EOT - IE only.

WOFF - Compressed, emerging standard.

SVG - iPhone/iPad.

Fonts

GoodDog AaBbCcDdEeFfGgHhIiJjKkLlMmNn

GoodDog Regular | 158 Glyphs

Font Information



Font Lists

Recently Added

Most Popular

Hot Today

Almost Free

Tags

Classifications

Languages

Foundries

Find Fonts

Classifications

| | |
|------------|-----|
| Display | 264 |
| Sans Serif | 199 |
| Serif | 114 |
| Handdrawn | 56 |
| Script | 53 |
| Retro | 35 |
| Slab Serif | 35 |

Tags

| | |
|--------------|-----|
| Paragraph | 357 |
| Display | 237 |
| Oblique | 130 |
| Headings | 116 |
| Casual | 110 |
| Sans Serif | 108 |
| Calligraphic | 80 |



WEBFONT GENERATOR

Usage: Click the "Add Fonts" button, check the agreement and download your fonts. If you need more fine-grain control, choose the **Expert** option.

You currently have no fonts uploaded.

☐ **BASIC**

Straight conversion with minimal processing.

☒ **OPTIMAL**

Recommended settings for performance and speed.

☐ **EXPERT...**

You decide how best to optimize your fonts.

Agreement:

☐ **Yes, the fonts I'm uploading are legally eligible for web embedding.**

Font Squirrel offers this service in good faith. Please honor the EULAs of your fonts.

Find this free service valuable and want to see it grow? Consider donating. Thank you!

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your
WEBSITE
free online editor

FONT LISTS

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Typefaces used

Georgia Pro • Avenir • Avenir Next • Adobe Caslon Pro •
Apple Color Emoji • Arial • Arial Nova • Avant Garde •
Avenir Next • Baskerville • Batang • Bodoni 72 • Calibri •
Cambria • Candara • Caxton Roman Book • CCEXtraExtra
• CCEXtraExtraEngraved • Chalkboard • CMU Serif • CMU
Serif Upright Italic • Comic Sans MS • Coming Together •
Consolas • Constantia • Corbel • Courier • Courier New •
Crimson Text • DejaVu Sans • DejaVu Sans Mono •
DejaVu Serif • Didot • Droid Sans • Droid Sans Mono •
Droid Serif • Futura • Futura Std • Georgia • Gill Sans •

Gill Sans Nova • Harrington • Helvetica • Helvetica
Neue • Hoefler Text • Iowan Old Style • Jazz LET •
Linux Libertine • Lucida Handwriting • Menlo • Myriad
Pro • Neue Haas Grotesk Text Pro • Noto Sans • Oswald
• Palatino • Party LET • Perpetua Titling MT • Playbill •
Proxima Nova • Rockwell Nova • SF Pro Text • Savoye
LET • Snell Roundhand • Source Code Pro • Source
Sans Pro • Source Serif Pro • Times • Times New
Roman • Univers • Verdana • Verdana Pro • Zapfino •
_P22 Franklin Caslon Italic • _P22 Franklin Caslon
Regular

CSS Typography

Typefaces, Fonts, & Formatting

R. Scott Granneman & Jans Carton

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Last updated 2023-03-12

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Changelog

2023-03-12 2.7: Updated screenshots & citations for Adobe Source fonts; moved “Should I use a web font?” to *Native Font Stacks*

Changelog

2022-09-21 2.6: Updated theme to Granneman 1.7; fixed any errors; improved & cited Core Fonts for the Web & ClearType Font Collection, including screenshots; added more ways to characterize typefaces; new screenshots for settings web browser fonts; added section *Installing Fonts*; added citations everywhere; updated several browser compatibility charts; tons of fixes & improvements!

2021-11-20 2.5: Updated native font stack; added free pro fonts that Windows can download

Changelog

2021-07-02 2.4: Added examples under `font-size`;
updated links in `font-size`

2020-08-31 2.3: Lovecraft-ized sample text in *Measure & Leading*; added slide about Beatles & Helvetica; added Steve Jobs example of hanging punctuation; took slides out of *Types* in *Basics* to create new sub-section *Terminology*; added slides in *Basics* about counters, bowls, & apertures

Changelog

2020-07-28 2.2: Updated & improved all screenshots & explanations for Google Webfonts Helper; added *Learn* section with Typography.Guru

2020-07-18 2.1: Added CodePen slide for showing default browser fonts; added screenshots for mixing serifs & sans-serifs; added Side Note on ampersands; removed URLs from slides since they're already in the Notes

Changelog

2020-07-16 2.0: Added *Printing* from *Media-Specific Styles*; added quotation by Jan Tschichold; moved almost everything about `color` into *CSS Data Types*; updated compatibility tables; lots more about `font-variant`; nice compare/contrast of ligatures; more on `font-stretch`; added example for `text-indent`; added *Special Cases* section with sub-section on *Printing*; added very complete *Variable Fonts* section; so many changes I bumped it up to 2.0!

Changelog

2020-06-10 1.23: Added Edge to, & cleaned up, *Browser Defaults*; detailed how to install Adobe Source fonts; added `font-stretch`; lots more on `text-shadow`

2018-11-08 1.22: Added San Francisco to list of iOS defaults; added arrows to `em/rem`; moved `white-space` back under *Text Properties* & added details re Unicode; added note re: `<percentage>` like `em` & avoiding its use; changed hex values to `code style` & then colored; added screenshot of CSS Values & Units

Changelog

2018-11-06 1.21: Completely removed localfont.com info; removed bad `currentcolor` example; fixed minor formatting issues; better intro to native font stacks; added & cited content in `<length>`: viewport-percentage, font-length, font-relative (more on `ch`; added *advance measure*, better `em` & `rem` screenshots); moved Multi-Column Layout to CSS Layout slide deck; updated icons & column order in compatibility table

Changelog

2018-06-21 1.20: Removed unneeded animation & improved text in `@font-face/src`; moved TTF & OTF from Bonus back up to Embedded Fonts/Formats & added details re font foundries; WOFF2 now a W3C Recommendation; added A Visual Type Scale screenshot; added detail on `font-style`; re-did slides showing font scales; fixed the Classical Scale; added slide on traditional point-size names

Changelog

2017-12-16 1.19: Added better explanation & example of `font-variant`, but then hid it; fixed minor wording; added `line-height` example; added native font stacks; minor formatting fixes; updated font formats compatibility table; changed “Mac OS X” to “macOS”; better screenshots for Google Webfonts Helper; changed theme to 1.4 & fixed formatting issues; better presentation of Microsoft ClearType Font Collection; better slide on serif, sans-serif, & monospace; re-did terms in Types; added typographer test words to Bonus

Changelog

2017-06-11 1.18: Changed Body font style (Georgia Pro) to use all ligatures & old style numbers; better example of `font-weight` using CodePen; added section on Typefaces, Fonts, Glyphs, & Characters; replaced example for `text-indent` with CodePen example; added browser defaults & example re: `line-height`; added examples of serif & sans-serif mono fonts; much improved `font-size` recommendation examples; added better explanation & example of `font-style`

Changelog

2016-10-31 1.17: Changed & added a huge amount about Google Fonts; added Typewolf

2016-10-13 1.16: Added slide re: when web fonts get downloaded, except for IE; improved typography terms slides; tweaked recommendation for leading (**line-height**); improved W3 scale table; added slide for monospaced typefaces; added my web browser default fonts & how to set them; fixed formatting; brought back localfont with caveats & added slides; better Comic Sans flowchart

Changelog

2016-04-16 1.15: Added slide showing search results for “best google fonts”; added Seurat example to pixels; added note on meaning of *resolution*; added explanation of *Latin Extended*; deprecated localfont & added Google Webfonts Helper

2016-01-20 1.14: Added mosaics to illustrate pixels

2015-11-23 1.13: Removed Font Deck (shut down); changed the Google Fonts/Firefox slide(s); added slides showing localfont.com process

2015-08-10 1.12: Added slide about justified text & accessibility; added quote from Kanye West

Changelog

2015-10-13 1.11: Added more detail & citations to Web Browser Defaults section; added quote about Arial; added Comic Sans examples; changed subtitle by adding Typefaces

2015-06-06 1.10: Added “Why” section to beginning; switched over theme to use Georgia Pro instead of Georgia; better formatting of Microsoft ClearType Fonts; fixed Web Browser Defaults tables to show fonts & look better; fixed slides that were formatted wrong & did a lot of clean up work; removed slide in `font-family` that showed order

Changelog

2015-05-27 1.9: Moved `<length>` data type from Data Types presentation to here; added browser support chart for viewport-percentage `font-size`; added chart info for `em` & `ch`; added slide about typography terms with important terms bolded; added note about overshoots on the e in the initial diagram

2015-05-09 1.8: Added info about Google Fonts adjusting font format depending upon browser; added info about WOFF 2; added info about Font Deck; added slide showing Presentations on granneman.com

Changelog

2015-04-27 1.7: Fixed some `font-weight` names; added examples of font weights using Proxima Nova

2015-01-15 1.6: Rearranged Text Properties properties; added `letter-spacing` & `word-spacing`; minor fixes; moved a few things from Bonus back into main presentation; added `text-shadow`

2014-10-23 1.5: Removed & added some fantasy fonts; added `column-rule`; minor fixes

Changelog

2014-08-11 1.4: Added details on colors & `currentcolor`

2014-08-03 1.3: Moved bonus stuff to Extras section at end; fixed typos; added more detail on `<color>`; difference between `font-` & `text-`; better screenshot for columns

2014-07-30 1.2.2: Added more on Comic Sans

2014-07-27 1.2.1: Added more to `color` property

2014-07-23 1.2: Shortened

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