

CSS Typography

Fonts & Formatting

Group to whom I'm speaking

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Basics

Types

Most basic:

Serif

Sans-serif

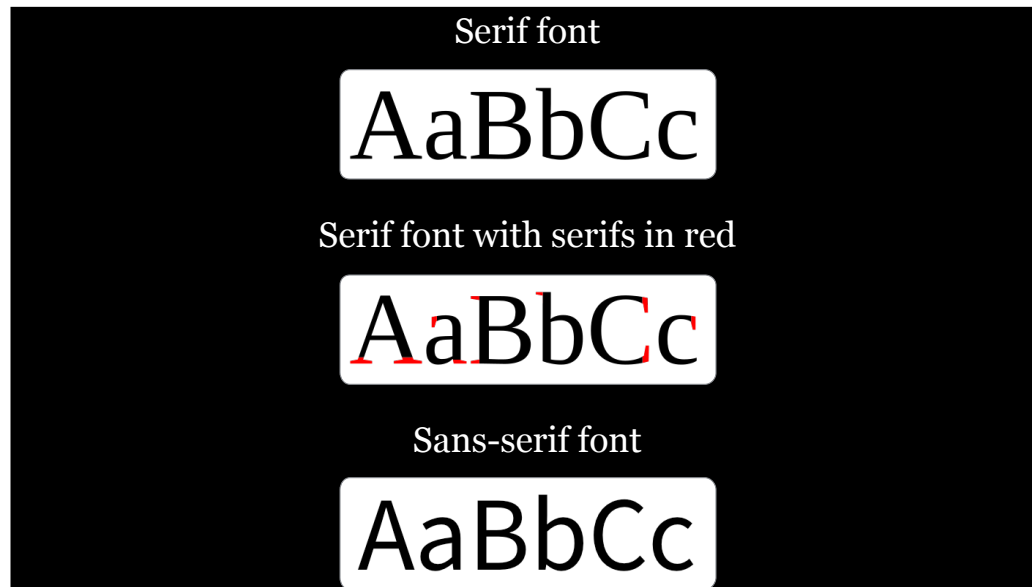
Monospaced/Monospaced

Adobe Type Classifications

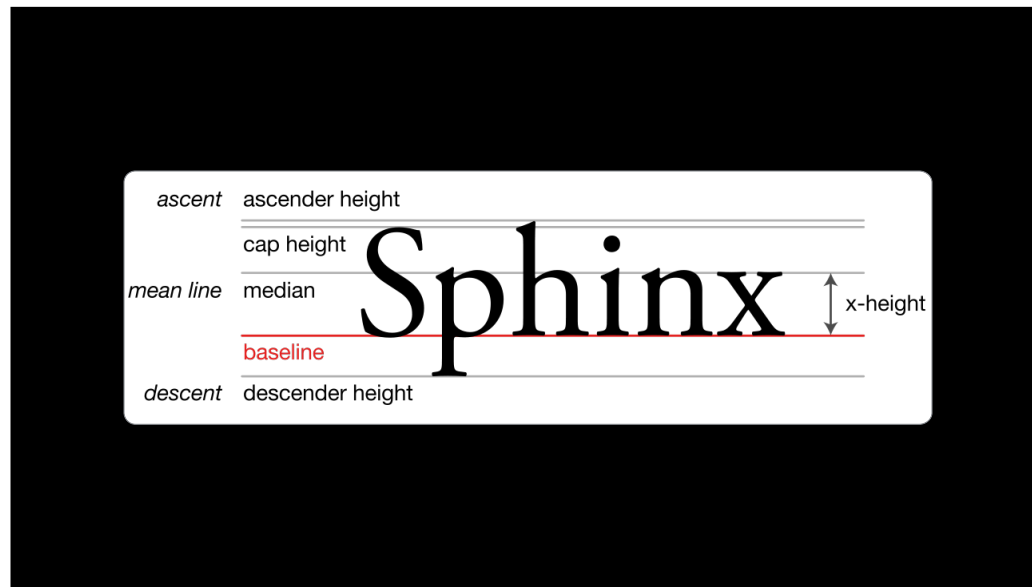
www.adobe.com/type/browser/classifications.html

				
Decorative & Display While typefaces in this group incorporate elements from many different styles, they are most effective when used at large sizes for display purposes, such as headlines and titles.	Didone (Modern) Improvements in late 18th century paper production, composition, printing and binding made it possible to develop a type style with strong vertical emphasis and fine hairlines. Named after Didot and Bodoni, Didone types include strong contrast between thick and thin strokes, curved strokes on a vertical axis, and often, serifs with no brackets.	Expert Collection The Adobe Expert Collection character sets are designed to meet the exacting requirements of professional typographers and designers. These sets include old style (lowercase) figures, small capitals, fractions, superior and inferior figures, and a complete set of f-ligatures.	Garamond Oldstyle Garamond typefaces include some of the most popular roman styles in use today. The distinguishing features of Garamond typefaces are apparent in Adobe Garamond, which has a horizontal bar on the lowercase e, a slightly greater contrast between thick and thin strokes than Venetian types, axis curves that are inclined to the left, and bracketed serifs.	Glyphic Unlike letterforms created with pen or brush, glyphic designs are based on letters carved or chiselled in stone. Since most inscribed letters are capitals, glyphic typefaces also tend to have only capitals. Some of these can be used effectively for text, but most are better suited to display applications such as posters, packaging and book titles.

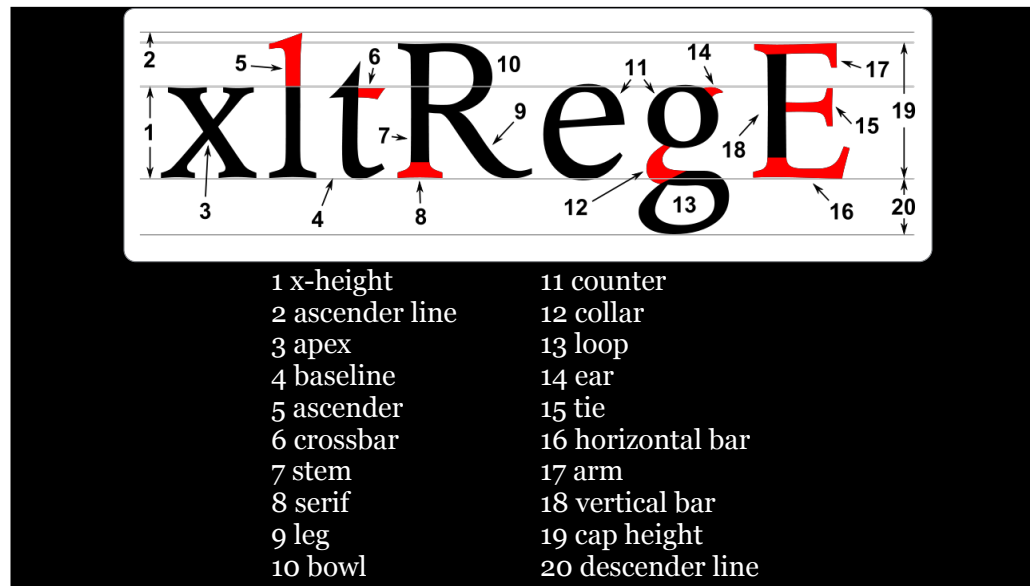
Adobe Originals	Greek	Sans Serif: Grotesque, Neo-Grotesque, Geometric and Humanist
Blackletter	Hand-tooled, Inline, Outline, Stencil	
Capitals		Script
Computer Related	Japanese	Slab Serif
Cyrillic	Mathematical	
Decorative & Display	Monospaced	Small Caps & Old Style Figures
Didone (Modern)	OpenType Pro	Swash
Expert Collection	Opticals Ornamentals	Symbol
Garalde Oldstyle	Phonetic	Transitional
Glyphic		Venetian Oldstyle



commons.wikimedia.org/wiki/File:Serif_and_sans-serif_02.svg
en.wikipedia.org/wiki/File:Serif_and_sans-serif_03.svg



en.wikipedia.org/wiki/File:Typography_Line_Terms.svg



en.wikipedia.org/wiki/File:Typographia.svg

en.wikipedia.org/wiki/Typeface_anatomy

Measure

Measure

Length of a line of text

Measure should be
pleasing to the eye & facilitate reading

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

Lorem ipsum dolor sit amet, consectetur adipiscing 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. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

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. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Shoot for between
40-80 characters, including spaces

~ 65 characters is ideal

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

Leading of 0.8

Lorem ipsum dolor sit amet, consectetur adipiscing 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.

Leading of 1.7

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

Leading of 1.3

Lorem ipsum dolor sit amet, consectetur adipiscing 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.

Rough rule of thumb:
set leading 1.3 times your font size

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

Same as:

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

Scale

Don't size text arbitrarily

Use a scale for your fonts

The Classical Scale

6 7 8 9 10 11 12 14 16 18 21 24 36 48 60 72

Fibonacci sequence scale

₈ 13 21 34 55 89

The W3 provides a very usable, standard scale

<code><absolute-size></code>	Scaling Factor	HTML <code>hx</code>
<code>xx-large</code>	$2/1$	<code>h1</code>
<code>x-large</code>	$3/2$	<code>h2</code>
<code>large</code>	$6/5$	<code>h3</code>
<code>medium</code>	1	<code>h4</code>
<code>small</code>	$8/9$	<code>h5</code>
<code>x-small</code>	$3/4$	
<code>xx-small</code>	$3/5$	<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

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 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

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 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.

Typography & the Web

Operating System Defaults

WINDOWS 95	WINDOWS 98	WINDOWS 2000	WINDOWS XP	WINDOWS Vista	WINDOWS 7
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	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	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	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 My Boli Plantagenet Cherokee Raavi Script Shruti Sylfaen Tunga Vrinda WST_Czec WST_Engl WST_Fren WST_Germ WST_Ital WST_Span WST_Swed	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 = Georgia and Times New Roman Calibri = Arial Candara = Trebuchet MS and Helvetica Consolas = Lucida Console and Courier New Constantia = Georgia and Palatino Corbel = Verdana	New Fonts Gabriola Segoe Print Segoe Print Bold Segoe Script Segoe Script Bold Segoe UI Light Segoe UI Semibold Segoe UI Symbol

www.tlccreative.com/samples/OS_Fonts_by_TLC.pdf



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

Web Browser Defaults

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

OS	Browser	Standard	Fixed-Width
		Times New Roman	Courier New
		Times	Courier

OS	Browser	Sans-serif	Serif	Mono
		Arial	Times New Roman	Courier New
		Helvetica	times-roman	Courier
		sans	serif	monospace

Microsoft's Core Fonts for the Web

Provided by Microsoft royalty-free 1996-2002
Still legally available all over the Web & on all Macs



en.wikipedia.org/wiki/File:AndaleMono.svg

Still included on Windows

Inferior knock-off
of Helvetica

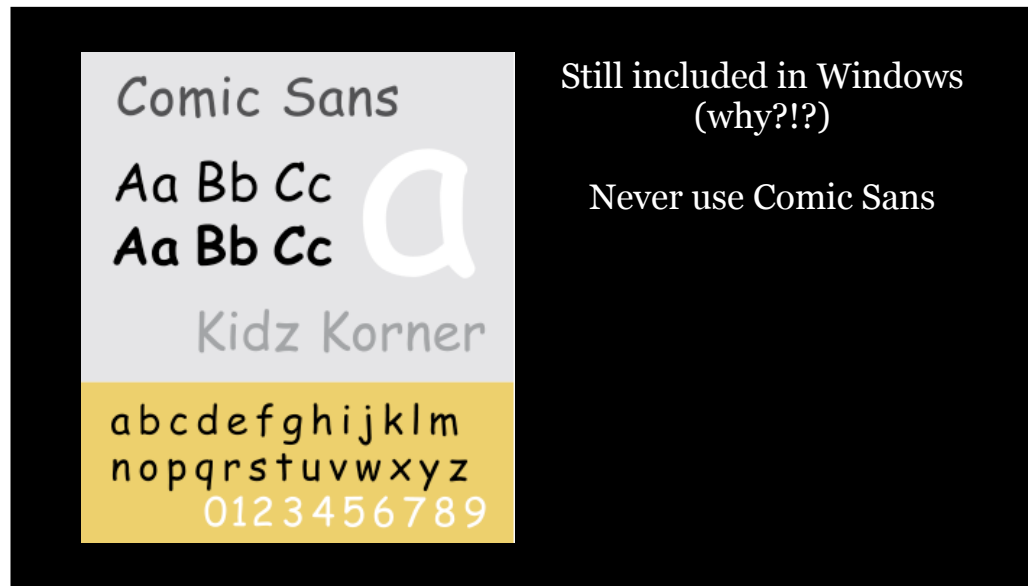
Arial

Aa Ee Rr *a*
Aa Ee Rr

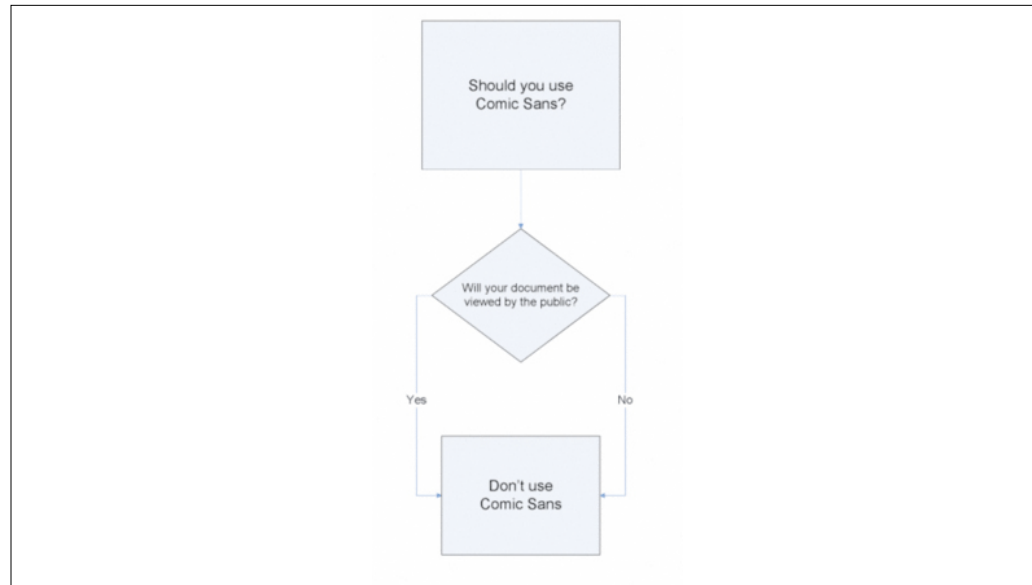
Deliverable

abcdefghijklm
nopqrstuvwxyz
0123456789

en.wikipedia.org/wiki/File:ArialMTsp.svg

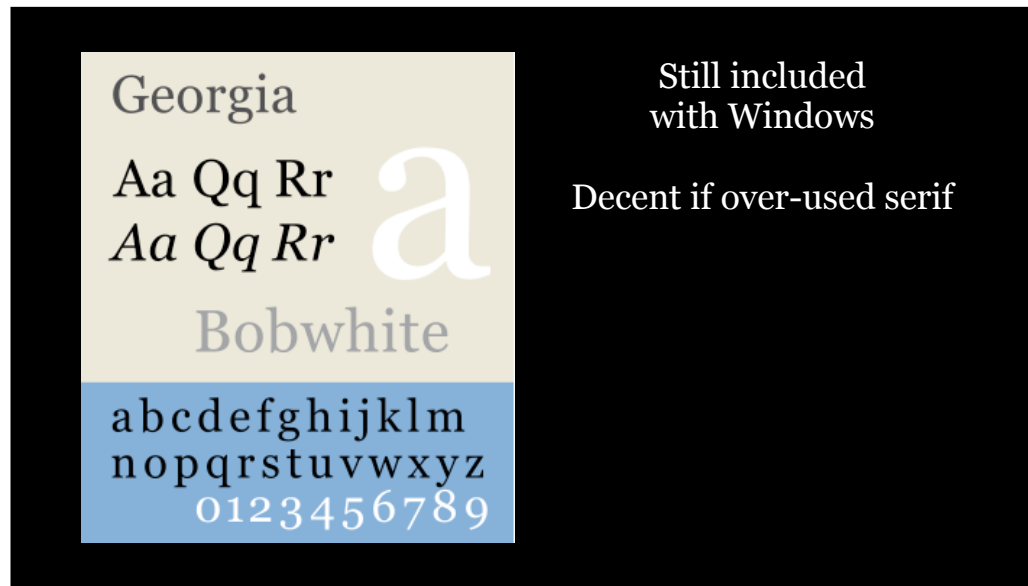


en.wikipedia.org/wiki/File:ComicSansSpec3.svg





en.wikipedia.org/wiki/File:Courier.svg



en.wikipedia.org/wiki/File:GeorgiaSpecimenAlB.svg

Still included
with Windows

Impact

Aa Ee Gg

Qq Rr Ss

a

Formaldehyde

abcdefghijklm

nopqrstuvwxyz

0123456789



en.wikipedia.org/wiki/File:Times_New_Roman-sample.svg

Georgia

Aa Qq Rr *a*
Aa Qq Rr

Bobwhite

abcdefghijklm
nopqrstuvwxyz
0123456789

Times New Roman

Aa Ee Rr *a*
Aa Ee Rr

Publisher

abcdefghijklm
nopqrstuvwxyz
0123456789

Still included in Windows

Trebuchet

Aa Qq Rr

Aa Qq Rr

a

Portmanteau

abcdefghijklm

nopqrstuvwxyz

0123456789

en.wikipedia.org/wiki/File:TrebuchetMS_SP.svg



en.wikipedia.org/wiki/File:VerdanaSpecimen.svg

Still included in Windows

en.wikipedia.org/wiki/File:Webdings-big.png

Microsoft ClearType Font Collection

Introduced with:

- » Windows Vista
- » Office 2007 for Windows
- » Office 2008 for Mac OS X

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

Calibri:
abcdefghijklm
nopqrstuvwxyz
ABCDEFGHIJKLM
NOPQRSTUVWXYZ
abcdefghijklm
nopqrstuvwxyz

Cambria:

abcdefghijklm

nopqrstuvwxyz

ABCDEFGHIJKLM

NOPQRSTUVWXYZ

abcdefghijklm

nopqrstuvwxyz

Default header type face in
Word, Excel, PowerPoint,
& Outlook
since Office 2007

Candara:
abcdefghijklm
nopqrstuvwxyz
ABCDEFGHIJKLM
NOPQRSTUVWXYZ
abcdefghijklm
nopqrstuvwxyz

Consolas:

abcdefghijklm

nopqrstuvwxyz

ABCDEFGHIJKLM

NOPQRSTUVWXYZ

abcdefghijklm

nopqrstuvwxyz

Monospaced font

Licensed by Bare Bones
as the default in BBEdit

Constantia:
abcdefghijklm
nopqrstuvwxyz
ABCDEFGHIJKLM
NOPQRSTUVWXYZ
abcdefghijklm
nopqrstuvwxyz

Corbel:
abcdefghijklm
nopqrstuvwxyz
ABCDEFGHIJKLM
NOPQRSTUVWXYZ
abcdefghijklm
nopqrstuvwxyz

Font Properties

font-size

line-height

font-style

font-variant

font-weight

font-family

font-size

Specify size using

<absolute-size>

<relative-size>

 <length>

 <percentage>

<code><absolute-size></code>	Scaling Factor	HTML <code>hx</code>
<code>xx-large</code>	$2/1$	<code>h1</code>
<code>x-large</code>	$3/2$	<code>h2</code>
<code>large</code>	$6/5$	<code>h3</code>
<code>medium</code>	1	<code>h4</code>
<code>small</code>	$8/9$	<code>h5</code>
<code>x-small</code>	$3/4$	
<code>xx-small</code>	$3/5$	<code>h6</code>

`<relative-size>`

`larger`

`smaller`

`<length>`

Fixed size measured in units that are

- » Font-relative
- » Viewport-percentage
- » Absolute

em	Originally width of capital M Now the <i>point size</i> of the font
ex	<i>x-height</i> of font $1\text{ex} \approx 0.5\text{em}$
ch	Width of o (zero)
rem	“root em” Font-size of root element

vh 1/100th of the viewport's height

vw 1/100th of the viewport's width

vmin 1/100th of the minimum value
between the viewport's height & width

vmax 1/100th of the maximum value
between the viewport's height & width

px 96 pixels per inch

mm 1 millimeter

cm 1 centimeter = 10 mm

in 1 inch = 2.54 cm

pt 1 point = 1/72 in

pc 1 pica = 12 pt

`<percentage>`

Relative to parent's font size

`150%`

`1.5em`

line-height

On block level elements,
`line-height` specifies the minimal height
of line boxes within the element

Specify size using

normal
<number>
<length>
<percentage>

`normal`

Desktop browsers use a default value of roughly `1.2`

`<number>`

Unitless

Preferred way to set `line-height`

```
font-size: 1em;  
line-height: 1.4;
```

<length>

Use standard <length> units

```
font-size: 1em;  
line-height: 1.4em;
```

```
font-size: 16px;  
line-height: 22px;
```

```
font-size: 16px;  
line-height: 1.4em;
```

Be careful—**em** may give you unexpected results

`<percentage>`

Relative to the font size of the element

```
font-size: 1em;  
line-height: 140%;
```

Be careful—% may give you unexpected results

font-style

normal

italic

oblique

italic

oblique

Cursive

Sloped

Specially-designed font

Computer simulates italic

N a

N a

font-variant

normal	Scott Granneman
small-caps	SCOTT GRANNEMAN

font-weight

Possible values

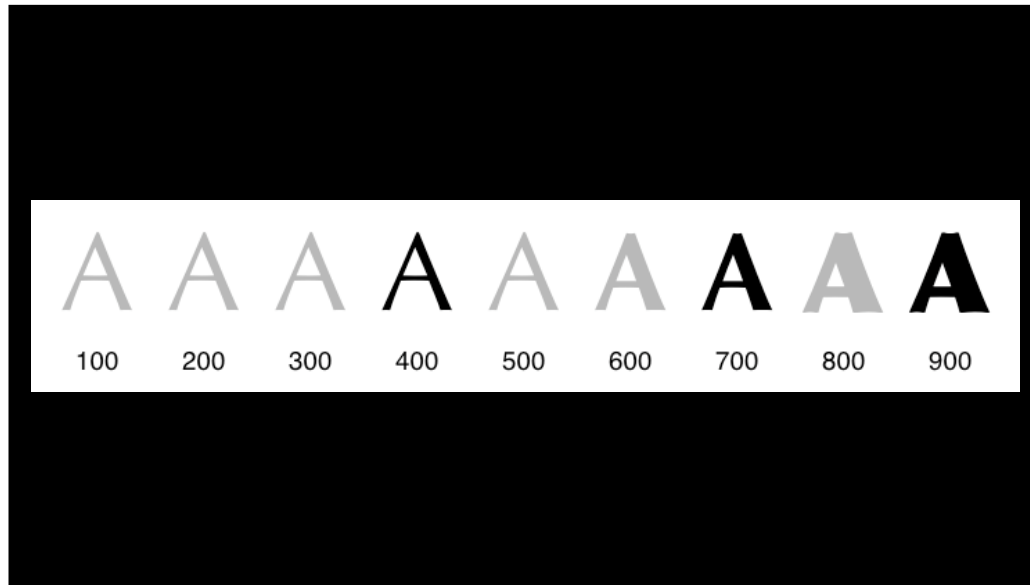
`normal`

`bold`

`bolder, lighter`

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

100	Thin	
200	Extra/Ultra Light	
300	Light	
400	Normal	normal
500	Medium	
600	Semi/Demi Bold	
700	Bold	bold
800	Extra/Ultra Bold	
900	Black/Heavy	



<http://www.w3.org/TR/css3-fonts/>

font-family

```
font-family: <family-name>|<generic-family> [,
             <family-name>|<generic-family>] [, <family-
             name>|<generic-family>]
```

family-name

Arial

Helvetica

“DejaVu Sans”

“Times New Roman”

generic-family can be

serif
sans-serif
cursive
fantasy
monospace

cursive

Savoye LET

Snell Roundhand

Zappino

fantasy

Party LET

Chalkduster

Noteworthy

Bradley Hand

Butterick's "A list: Generally tolerable"

Avenir (Mac)	Century Schoolbook	Goudy Old Style
Baskerville (Mac)	Franklin Gothic	Hoefler Text
Bell MT	Garamond	Optima
Californian FB	Gill Sans	
Calisto MT	Gill Sans MT	

practicaltypography.com/system-fonts.html

Butterick's "B list: OK in limited doses"

Agency FB	Constantia	Helvetica
Big Caslon	Corbel	Helvetica Neue
Bodoni MT	Didot	High Tower Text
Book Antiqua	Eras Medium	Modern No. 20
Calibri	ITC	Palatino
Candara	Futura	Perpetua
Centaur	Geneva	Rockwell
Century	Gloucester MT	Segoe UI
Cochin	Extra Cond.	Tw Cen MT

practicaltypography.com/system-fonts.html

Butterick's "C list: Questionable"

Andale Mono	Copperplate Gothic	Maiandra GD
Baskerville Old Face	Courier	Monaco
Berlin Sans FB	Courier New	Niagara Solid &
Bernard MT	Elephant	Engraved
Condensed	Engravers MT	Onyx
Britannic Bold	Felix Titling	Plantagenet
Cambria	Footlight MT Light	Cherokee
Castellar	Georgia	Poor Richard
Century Gothic	Goudy Stout	Skia
Consolas	Haettenschweiler	Times New Roman
Cooper Black	Impact	Wide Latin
Copperplate	Lucida (all styles)	

practicaltypography.com/system-fonts.html

Butterick's "F list: Fatal to your credibility"

Algerian	Chalkboard	Gigi
American	Chiller	Harlow Solid Italic
Typewriter	Colonna MT	Harrington
Apple Chancery	Comic Sans MS	Herculanum
Arial (all styles)	Curlz MT	Imprint MT
Bauhaus 93	Edwardian Script	Shadow
Blackadder ITC	ITC	Informal Roman
Bradley Hand ITC	Forte	Jokerman
Broadway	Freestyle Script	Juice ITC
Brush Script MT	French Script MT	Kristen ITC
Bookman Old Style	Gabriola	Kunstler Script

practicaltypography.com/system-fonts.html

Butterick's "F list: Fatal to your credibility"

Magneto	Palace Script MT	Showcard Gothic
Marker Felt	Papyrus	Tahoma
Matura MT Script Capitals	Parchment	Tempus Sans ITC
Mistral	Playbill	Trebuchet MS
Monotype	Pristina	Verdana
Corsiva	Rage Italic	Viner Hand ITC
OCR A Extended	Ravie	Vivaldi
Old English Text MT	Script MT Bold	Vladimir Script
	Snap ITC	Zapfino
	Stencil	

practicaltypography.com/system-fonts.html

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, this list has gotten shorter

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

The order:

Ideal, Alternative, Common, Generic

Key font family stacks
[safalra.com/web-design/
typography/web-safe-fonts-myth/](http://safalra.com/web-design/typography/web-safe-fonts-myth/)

Don't just focus on serif or sans-serif

Also look at width:
wide (large *x-height*) & narrow (small *x-height*)

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	

A great rule of thumb

Serifs for headers & sans-serifs for body

OR

Sans-serifs for headers & serifs for body

Narrow sans-serif header font stack

Marco Arment's The Magazine

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

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

Behind the music

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

Wide serif body font stack

Marco Arment's The Magazine

"Minion Pro", Georgia, serif;

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.

Text Properties

<code>color</code>	<code>text-indent</code>
<code>text-shadow</code>	<code>white-space</code>
<code>letter-spacing</code>	<code>word-break</code>
<code>word-spacing</code>	<code>word-wrap</code>
<code>text-decoration</code>	<code>direction</code>
<code>text-transform</code>	<code>unicode-bidi</code>

Appearance

`text-decoration`

`text-transform`

`text-decoration`

Insert or remove lines above, below, & through text

```
.under {text-decoration: underline;}  
.over {text-decoration: overline;}  
.underover {text-decoration:  
  underline overline;}  
.strike {text-decoration:  
  line-through;}  
.none {text-decoration: none;}
```

This has a line under it.

This has a line over it.

This has a line under & over it.

~~This has a line through it.~~

[This link](#) does not have a line under it.

```
<p class="under">This has a line under it.  
</p>  
<p class="over">This has a line over it.</p>  
<p class="underover">This has a line under &  
  over it.</p>  
<p class="strike">This has a line through  
  it.</p>  
<p><a href="#" class="none">This link</a> does  
  not have a line under it.</p>
```

`text-transform`

Specifies capitalization

```
.cap {text-transform:
  capitalize;}
.upper {text-transform:
  uppercase;}
.lower {text-transform:
  lowercase;}
.none {text-transform:
  none;}
```

```
<p class="cap">lorem ipsum dolor amet.</p>
<p class="upper">lorem ipsum dolor amet.</p>
<p class="lower">Lorem Ipsum Dolor Amet.</p>
<p class="none">LoReM iPsUm DoLoR aMeT.</p>
```

Lorem Ipsum Dolor Amet.

LOREM IPSUM DOLOR AMET.

lorem ipsum dolor amet.

LoReM iPsUm DoLoR aMeT.

Display

color

`color`

Specifies foreground color of text

`color: red`
Named color

`color: #00ff00`
6-character dash notation using hexadecimal values

`color: #0f0`
3-character dash notation using hexadecimal values

`color: rgba(34, 12, 64, 0.3)`
Functional notations

`color: currentColor`
Value of direct ancestor

White Space

`text-indent`

`white-space`

`text-indent`

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

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. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.

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. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.

```
p:first-child {text-indent: 1em;}  
p:nth-child(2) {width: 90%; margin-left: auto;  
margin-right: auto; text-indent: -1em;}
```

```
<p>Lorem ipsum dolor sit amet...</p>
```

```
<p>Lorem ipsum dolor sit amet...</p>
```

`white-space`

Specifies how whitespace inside an element is handled

Is whitespace collapsed?
How are newline characters in source treated?
Is text wrapped? If so, how?

	Newlines	Whitespace	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>	Preserve	Collapse	Wrap

Line Box Properties

`text-align`

Specifies how inline content
is aligned in its parent block element

CODEPEN

Save

Fork

Info

Share

Editor

HTML

```
1 <p class="left">I am left-aligned</p>
2 <p class="right">I am right-aligned</p>
3 <p class="center">I am centered</p>
4 <p class="justify">I am justified text with words of
  greatly varying lengths & vocabulary type. 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.
</p>
```

CSS

```
1 .left {text-align: left;}
2 .right {text-align: right;}
3 .center {text-align: center;}
4 .justify {text-align: justify}
```

I am left-aligned

I am right-aligned

I am centered

I am justified text with words of greatly varying lengths & vocabulary type. 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.

Collections

Embed

Details & Comments

Delete

A Pen by Scott Granneman

Shortcuts

Multi-Column Layout

`columns`

`column-count`

`column-width`

`column-gap`

- An awareness of the process in creating a website & the various roles needed in that process.

Mini-Topics ↩

During most classes I will take a few minutes & discuss a mini-topic for 10 minutes or so. Some of these mini-topics include:

- | | | |
|-------------------------------|----------------------------|---------------------------------|
| • Snippets | • Markdown | • Formatting & beautifying code |
| • Offline documentation | • Wolfram Alpha | • Minimizing code |
| • Regular Expressions (RegEx) | • Cookies | • WYSIWYG Web tools |
| • Simplenote | • LAMP (& WAMP & MAMP) | • Automating my Mac |
| • OpenDNS | • Git & GitHub | • Programming fonts |
| • Backing up | • Portable Apps | • Using Word to make webpages |
| • Password safes | • Encoding email addresses | • Pattern libraries |
| • RSS | • SEO | • The WebSanity Toolkit |
| • The best help sites | • Finding multimedia | • jQuery |
| • Ebooks | • AJAX | |

Requirements ↩

Texts ↩

There are no required books. Readings will consist of articles, analyses, & ephemera from the Internet. Virtually everything you need can be accessed via my website; however, when it's appropriate I will recommend books useful for further study & reference.

OK, if you just have to kill a tree, I highly recommend Jon Duckett's [HTML & CSS: Design and Build Websites](#). But it's not *required*.

Tasks ↩

`column-width`

Specifies *hint* of the optimal width of the columns,
as actual width may be wider or narrower

`column-count`

» Specifies ideal number of columns for content

» If `column-width` is set,
becomes maximum number of columns

`columns`

Shorthand for `column-width` & `column-count`

`column-gap`

Specifies size of the gap between columns

`column-rule`

Specifies a straight line (*rule*)
to be drawn between each column

Shorthand for

- » `column-rule-width`
(`<length>` or `thin`, `medium`, or `thick`)
- » `column-rule-style`
- » `column-rule-color`

CODEPEN
Save
Fork
Info
Share
Editor

HTML

1 <div class="multi-column">
2
3 Snippets
4 Offline documentation
5 Regular Expressions (Regex)
6 Simplenote
7 OpenDNS
8 Backing up
9 >Password safes
10 RSS
11 The best help sites
12 Ebooks
13 Markdown
14 Wolfram Alpha
15 Cookies
16 LAMP (& WAMP & MAMP)

CSS

1 .multi-column {
2 -moz-column-count: 3; /* Firefox */
3 -webkit-column-count: 3; /* Safari and Chrome */
4 column-count: 3;
5
6 -moz-column-gap: 40px;
7 -webkit-column-gap: 40px;
8 column-gap: 40px;
9
10 -moz-column-rule: 2px dotted DarkGray;
11 -webkit-column-rule: 2px dotted DarkGray;
12 column-rule: 2px dotted DarkGray;
13 }
14
15 ul {margin-top: 0;}

- Snippets
- Offline documentation
- Regular Expressions (Regex)
- Simplenote
- OpenDNS
- Backing up
- Password safes
- RSS
- The best help sites
- Ebooks

- Markdown
- Wolfram Alpha
- Cookies
- LAMP (& WAMP & MAMP)
- Git & GitHub
- Portable Apps
- Encoding email addresses
- SEO
- Finding multimedia
- AJAX

- Formatting & beautifying code
- Minimizing code
- WYSIWYG Web tools
- Automating my Mac
- Programming fonts
- Using Word to make webpages
- Pattern libraries
- The WebSanity Toolkit
- jQuery

Collections
Embed
Details & Comments
Delete
A Pen by Scott Granneman
Shortcuts



						
<code>column-count</code>	10	<code>-webkit</code>	<code>-webkit</code>	<code>-moz</code>	?	?
<code>column-width</code>	10	<code>-webkit</code>	<code>-webkit</code>	<code>-moz</code>	?	?
<code>column-gap</code>	10	<code>-webkit</code>	<code>-webkit</code>	<code>-moz</code>	?	?
<code>column-rule</code>	10	<code>-webkit</code>	<code>-webkit</code>	<code>-moz</code>	?	?

Embedded Fonts

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

Formats

EOT
Embedded OpenType

Designed by Microsoft for embedding on web pages

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

Submitted to W3 for consideration, but rejected

TTF
TrueType Fonts

Font standard released by Apple in 1991

Standard on Mac OS X & Windows

On the Web, simply link to TTF file

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

WOFF
Web Open Font Format

Developed during 2009 by Mozilla

Wrapper containing fonts in various formats
(TrueType, OpenType, or Open Font)
encoded with ZIP compression

W3 Recommendation as of 2012

SVG
Scalable Vector Graphics

XML-based file format describing 2D vector graphics,
both static & dynamic

Open standard developed by W3C since 1999

@font-face

CSS2 introduced `@font-face`

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

`src`

Location of font

Can be local or remote

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

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

Local font on user's device

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



Remote font downloaded
onto user's device

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

Local AND remote
covers all bases



```
@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!

Browser Support

					
EOT	4				
TTF		3.5	3.1	4	10
OTF		3.5	3.1		10
WOFF	9	3.6	5.1	6	11.1
SVG			3.1	4	10

Licensing

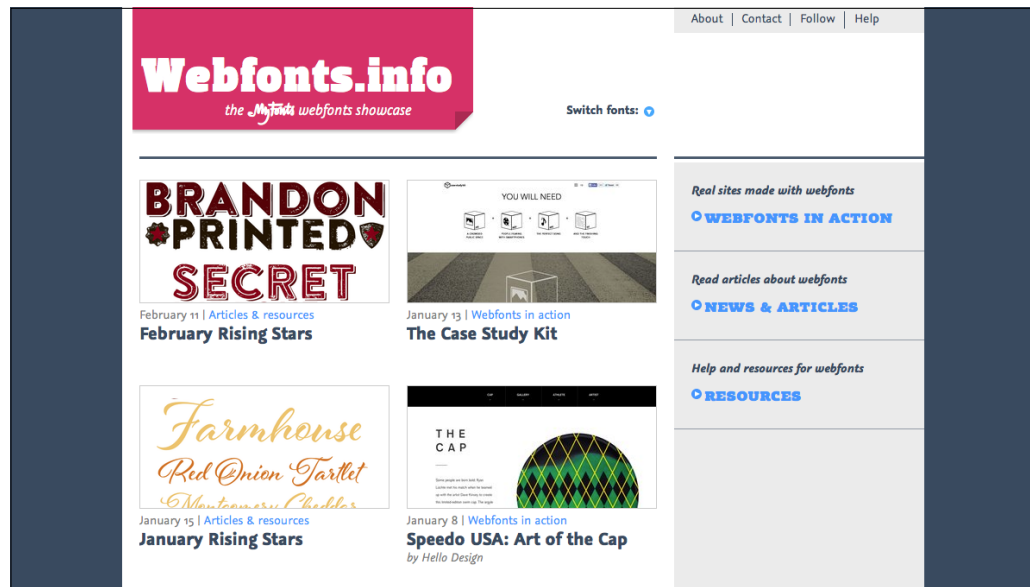
Problem:

Unauthorized copying

Solution:

- » Open, free fonts
- » Licensed fonts

Open, free fonts



www.webfonts.info

See www.webfonts.info/wiki/index.php?title=Fonts_available_for_%40font-face_embedding



openfontlibrary.org/en
286 font families



THE LEAGUE *of* MOVEABLE TYPE

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theleagueofmovabletype.com

No More Bullshit. Join the Revolution.

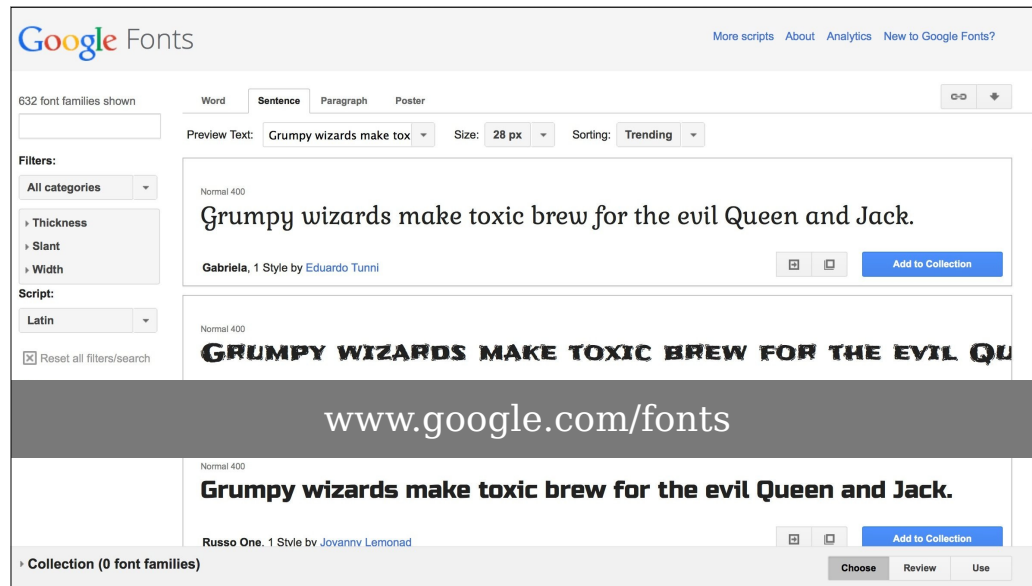
We're done with the tired old fontstacks of yesteryear. The web is no longer limited, and now it's time to raise our standards. Since 2009, The League has given only the most well-made, free & open-source, *@font-face* ready fonts.

Like any revolution, we aim to make progress, & we need help. If you want to be a part of the movement, you should [join us](#) or [subscribe to the newsletter](#). If you have any questions about The League or contributing, [get in touch](#).



OSTRICH SANS
INTERNATIONAL INLINE ITALIC À Á Â Ã Ä Å

www.theleagueofmoveabletype.com



www.google.com/fonts
632 font families

“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.”

www.google.com/fonts#AboutPlace:about

Beautiful Web Type

A showcase of the best typefaces from the Google web fonts directory.

There are over 600 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. Click the examples to get the typeface from the Google web fonts directory.

✕ MAINTAINED BY CHAD MAZZOLA

✕ WATCH THIS REPO ON GITHUB

✕ FOLLOW ME ON TWITTER

hellohappy.org/beautiful-web-type/

“I personally would rather do the existentially essential things in life on foot. If you live in England and your girlfriend is in Sicily, and it is clear you want to marry her, then you should walk to Sicily to propose. For these things travel by car or aeroplane is not the right thing.”

—Werner Herzog, *Of Walking in Ice*

Cardo

UNITY
RHYTHM
BALANCE
EMPHASIS
PROXIMITY
HIERARCHY

Lato

ON

THE ORIGIN OF SPECIES

Old Standard TT

BY MEANS OF NATURAL SELECTION

BY CHARLES DARWIN, M.A.,

FELLOW OF THE ROYAL, GEOLOGICAL, LINNÆAN, ETC., SOCIETIES;
AUTHOR OF 'JOURNAL OF RESEARCHES DURING H.M.S. BEAGLE'S VOYAGE ROUND THE WORLD.'

The right of Translation is reserved.

On the GENEALOGY of MORALS

Open Sans

FRIEDRICH NIETZSCHE

At this point I can no longer avoid giving a first, provisional statement of my own hypothesis concerning the origin of the "bad conscience": it may sound rather strange and needs to be pondered, lived with, and slept on for a long time. I regard the bad conscience as the serious illness that man was bound to contract under the stress of the most fundamental change he ever experienced—that change which occurred when he found himself finally enclosed within the walls of society and of peace. The situation that faced sea animals when they were compelled to become land animals or perish was the same as that which faced these semi-animals, well adapted to the wilderness, to war, to prowling, to adventure: suddenly all their instincts were disvalued and "suspended." From now on they had to walk on their feet and "bear

themselves" whereas hitherto they had been borne by the water: a dreadful heaviness lay upon them. They felt unable to cope with the simplest undertakings; in this new world they no longer possessed their former guides, their regulating, unconscious and infallible drives: they were reduced to thinking, inferring, reckoning, coordinating cause and effect, these unfortunate creatures; they were reduced to their "consciousness," their weakest and most fallible organ! I believe there has never been such a feeling of misery on earth, such a leaden discomfort and at the same time the old instincts had not suddenly ceased to make their usual demands. Only it was hardly or rarely possible to humor them: as a rule they had to seek new and, as it were, subterranean gratifications.

On the GENEALOGY of MORALS

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Gentium Book Basic

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.

78 Google Web Fonts Families

Because web designers want font families, not just fonts.

Exo

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*

ALEGREYA SANS SC

100, 100 *ITALIC*, 300, 300 *ITALIC*, 400, *ITALIC*, 500,
500 *ITALIC*, 700, 700 *ITALIC*, 800, 800 *ITALIC*, 900,
900 *ITALIC*

Exo 2

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*

Roboto

100, 100 *Italic*, 300, 300 *Italic*, 400, *Italic*, 500,
500 *Italic*, 700, 700 *Italic*, 900, 900 *Italic*

Alegreya Sans

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

Source Sans Pro

200, 200 *Italic*, 300, 300 *Italic*, 400, *Italic*, 600,
600 *Italic*, 700, 700 *Italic*, 900, 900 *Italic*

somedesign.ca/demos/better-google-fonts/

Lato

100, 100 *Italic*, 300, 300 *Italic*, 400, *Italic*, 700,
700 *Italic*, 900, 900 *Italic*

Open Sans

300, 300 *Italic*, 400, *Italic*, 600, 600 *Italic*, 700,
700 *Italic*, 800, 800 *Italic*

Raleway

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

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ENGLISH 

fonts.com [Browse Fonts](#) [Web Fonts](#) [Subscriptions](#) [Learn About Fonts & Typography](#)

Sync Google Fonts to your Desktop with SkyFonts



We are proud to have teamed up with Google to offer desktop versions of their popular [Google Fonts](#) free of charge. Offered for use in print, these fonts are delivered using SkyFont's patent-pending font delivery technology and can be used anywhere.

Each time a font is updated — such as when new characters are added — SkyFonts will automatically update the font on your device. Syncing Google Fonts with SkyFonts will also improve your web browsing experience, by cutting the time spent downloading fonts.

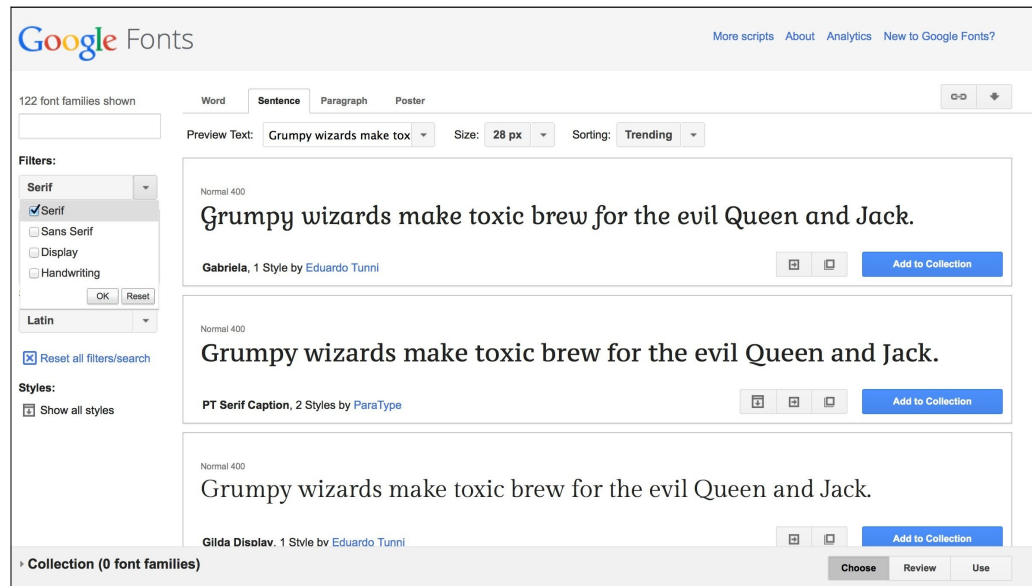
 Google Fonts [Download SkyFonts](#) [Browse Google Fonts](#)

Install Fonts
Desktop versions of Google Fonts are

About SkyFonts
SkyFonts is a lightweight, patent-

About Google Fonts
Google Fonts is the leading host of

www.fonts.com/web-fonts/google



Google Fonts

[More scripts](#) [About](#) [Analytics](#) [New to Google Fonts?](#)

57 font families shown

WordSentenceParagraphPoster

Preview Text: Grumpy wizards make tox Size: 28 px Sorting: Trending

Filters:

Serif

Thickness

Slant

Width

Script:

Latin Extended

Cyrillic

Cyrillic Extended

Greek

Greek Extended

Khmer

Latin

Latin Extended

Vietnamese

Normal 400

Grumpy wizards make toxic brew for the evil Queen and Jack.

Gabriela, 1 Style by Eduardo Tunni

Add to Collection

Normal 400

Grumpy wizards make toxic brew for the evil Queen and Jack.

PT Serif Caption, 2 Styles by ParaType

Add to Collection

Normal 400

Grumpy wizards make toxic brew for the evil Queen and Jack.

Gilda Disolav, 1 Style by Eduardo Tunni

Add to Collection

Collection (0 font families)

ChooseReviewUse

Google Fonts

[More scripts](#) [About](#) [Analytics](#) [New to Google Fonts?](#)

18 font families shown

Word Sentence Paragraph Poster

Preview Text: Grumpy wizards make tox Size: 28 px Sorting: Trending

Filters:

Serif

Thickness

thin thick

Slant

Width

Script:

Latin

Reset all filters/search

Styles:

Show all styles

Bold 700

Grumpy wizards make toxic brew for the evil Queen and Jack.

Roboto Slab, 4 Styles by [Christian Robertson](#)

Add to Collection

Bold 700

Grumpy wizards make toxic brew for the evil Queen and Jack.

Bitter, 3 Styles by [Huerta Tipográfica](#)

Add to Collection

Bold 700

Grumpy wizards make toxic brew for the evil Queen and Jack.

Podkova, 2 Styles by [Cyreal](#)

Add to Collection

Collection (0 font families)

Choose Review Use

Google Fonts

[More scripts](#) [About](#) [Analytics](#) [New to Google Fonts?](#)

12 font families shown

Word

Sentence

Paragraph

Poster

Preview Text: Grumpy wizards make tox

Size: 28 px

Sorting: Trending

Filters:

Serif

Thickness

thin

thick

Slant

Width

Show Collection only

Script: Latin Extended

Reset all filters/search

Styles:

Show all styles

Bold 700

Grumpy wizards make toxic brew for the evil Queen and Jack.

Roboto Slab, 4 Styles by [Christian Robertson](#)

Add to Collection

Bold 700 ☒ Use this style

Grumpy wizards make toxic brew for the evil Queen and Jack.

Bitter, 3 Styles by [Huerta Tipográfica](#)

Remove from Collection

Bold 700

Grumpy wizards make toxic brew for the evil Queen and Jack.

Noto Serif 4 Styles by [Google](#)

Add to Collection

Collection (1 font family)

Choose

Review

Use

Google Fonts

[More scripts](#) [About](#) [Analytics](#) [New to Google Fonts?](#)

97 font families shown

Word

Sentence

Paragraph

Poster

Preview Text: Grumpy wizards make tox Size: 28 px Sorting: Trending

Filters:

Sans Serif

☐ Serif

☒ Sans Serif

☐ Display

☐ Handwriting

OK Reset

Script:

Latin Extended

☒ Reset all filters/search

Styles:

Show all styles

Normal 400

Grumpy wizards make toxic brew for the evil Queen and Jack.

Russo One, 1 Style by Jovanny Lemonad

Add to Collection

Normal 400

Grumpy wizards make toxic brew for the evil Queen and Jack.

Exo 2, 18 Styles by Natanael Gama

Add to Collection

Normal 400

Grumpy wizards make toxic brew for the evil Queen and Jack.

Ruda, 3 Styles by Multiple Designers

Add to Collection

Collection (1 font family)

Choose Review Use

Google Fonts

[More scripts](#) [About](#) [Analytics](#) [New to Google Fonts?](#)

97 font families shown

Word

Sentence

Paragraph

Poster

Preview Text: Grumpy wizards make toxic brew for the evil Queen and Jack.

Size: 28 px

Sorting: Trending

Filters:

Sans Serif

Thickness

Slant

Width

Show Collection only

Script: Latin Extended

Reset all filters/search

Styles: Show all styles

Sintony, 2 Styles by Eduardo Rodriguez Tunni

Add to Collection

Normal 400 Use this style

Grumpy wizards make toxic brew for the evil Queen and Jack.

Pontano Sans, 1 Style by Vernon Adams

Remove from Collection

Normal 400

Grumpy wizards make toxic brew for the evil Queen and Jack.

Basic, 1 Style by Magnus Gaarde

Add to Collection

Collection (2 font families)

Choose Review Use

Google Fonts

[More scripts](#) [About](#) [Analytics](#) [New to Google Fonts?](#)

97 font families shown

Word

Sentence

Paragraph

Poster

Filters:

Sans Serif

Thickness

Slant

Width

Show Collection only

Script:

Latin Extended

Reset all filters/search

Preview Text: Grumpy wizards make toxic brew for the evil Queen and Jack.

Size: 28 px

Sorting: Trending

Grumpy wizards make toxic brew for the evil Queen and Jack.

Sintony, 2 Styles by Eduardo Rodriguez Tunni

Add to Collection

Normal 400 Use this style

Grumpy wizards make toxic brew for the evil Queen and Jack.

Pontano Sans, 1 Style by Vernon Adams

Remove from Collection

Collection (2 font families)

Choose Review Use

Bitter Normal 400 Bold 700

Pontano Sans Normal 400

Remove all families from Collection

Google

Fonts

[More scripts](#)
[About](#)
[Analytics](#)
[New to Google Fonts?](#)

Specimen

Styles

Test Drive

Character Set

Compare

Description

Try in Ttypecast

Preview Text:

Grumpy wizards make tox

Show:

Apply amount to all...

Script:

Latin Extended

Pontano Sans

Pontano Sans

Paragraph

Normal 400

Use this style

14px

Grumpy wizards make toxic brew for the evil Queen and Jack. One morning, when Gregor Samsa woke from troubled dreams, he found himself transformed in his bed into a horrible vermin. He lay on his amour-like back, and if he lifted his head a little he could see his brown belly, slightly domed and divided by arches into stiff sections. The bedding was hardly able to cover it and seemed ready to slide off any moment. His many legs, pitifully thin compared

1 Style by [Vernon Adams](#)

SIL Open Font License, 1.1

Bitter

Bitter

Headline

Bold 700

Use this style

64px

Grumpy wizards

3 Styles by [Huerta Tipográfica](#)

SIL Open Font License, 1.1

Collection (2 font families)

Choose

Review

Use

Bitter

Normal 400 Bold 700

×

Pontano Sans

Normal 400

×

Remove all families from Collection

187

Google Fonts

[More scripts](#) [About](#) [Analytics](#) [New to Google Fonts?](#)

Almost done!

Verify your settings below and then copy the code for your website.

1. Choose the styles you want:

Bitter

☒ Normal 400

☐ Normal 400 Italic

☒ Bold 700

Pontano Sans

☒ Normal 400

Grumpy wizards make toxic brew for the evil Queen and Jack.

Grumpy wizards make toxic brew for the evil Queen and Jack.

Grumpy wizards make toxic brew for the evil Queen and Jack.

Grumpy wizards make toxic brew for the evil Queen and Jack.

Page Load

195

Impact on page load time

Tip: Using many font styles can slow down your webpage, so only select the font styles that you actually need on your webpage.

Collection (2 font families)

Choose

Review

Use

Google Fonts

[More scripts](#) [About](#) [Analytics](#) [New to Google Fonts?](#)

Almost done!

Verify your settings below and then copy the code for your website.

1. Choose the styles you want:

Bitter

☐ Normal 400

☐ Normal 400 *Italic*

☒ **Bold 700**

Pontano Sans

☒ Normal 400

Grumpy wizards make toxic brew for the evil Queen and Jack.

Grumpy wizards make toxic brew for the evil Queen and Jack.

Grumpy wizards make toxic brew for the evil Queen and Jack!

Page Load

129

Impact on page load time

Tip: Using many font styles can slow down your webpage, so only select the font styles that you actually need on your webpage.

Collection (2 font families)

Choose

Review

Use

Google Fonts

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Standard @import Javascript

3. Add this code to your website:

```
<link href="http://fonts.googleapis.com/css?family=Bitter:700|Pontano+Sans&subset=latin-ext" rel="stylesheet">
```

Instructions: To embed your Collection into your web page, copy the code as the first element in the <head> of your HTML document.

[» See an example](#)

4. Integrate the fonts into your CSS:

The Google Fonts API will generate the necessary browser-specific CSS to use the fonts. All you need to do is add the font name to your CSS styles. For example:

```
font-family: 'Bitter', serif;

font-family: 'Pontano Sans', sans-serif;
```

Instructions: Add the font name to your CSS styles just as you'd do normally with any other font.

Example:

```
h1 { font-family:
'Metrophobic', Arial, serif;
font-weight: 400; }
```

Collection (2 font families)

Choose

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Use

```
<head>
  <link rel="stylesheet" href="http://
  fonts.googleapis.com/css?family=Bitter:700|
  Pontano+Sans&subset=latin-ext">

  <style>
    h1, h2, h3, h4 {
      font-family: Bitter, serif;
    }

    p {
      font-family: "Pontano Sans", sans-serif;
    }
  </style>
</head>
```

```
<head>
  <link rel="stylesheet" href="http://
fonts.googleapis.com/css?family=Bitter:700|
Pontano+Sans&subset=latin-ext">

  <link rel="stylesheet" href="styles/
main.css">
</head>
```

Google Fonts

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Standard @import Javascript

3. Add this code to your website:

@import url(http://fonts.googleapis.com/css?family=Bitter:400,700|Pontano+Sans);

Instructions: To embed your Collection into your web page, copy the code as the first element in the <head> of your HTML document.

[» See an example](#)

4. Integrate the fonts into your CSS:

The Google Fonts API will generate the necessary browser-specific CSS to use the fonts. All you need to do is add the font name to your CSS styles. For example:

font-family: 'Bitter', serif;

font-family: 'Pontano Sans', sans-serif;

Instructions: Add the font name to your CSS styles just as you'd do normally with any other font.

Example:

h1 { font-family: 'Metrophobic', Arial, serif; font-weight: 400; }

Google Fonts are powered by the

Collection (2 font families)

Choose

Review

Use

```
<head>
  <link rel="stylesheet" href="styles/main.css">
</head>
```

main.css

```
@import url(http://fonts.googleapis.com/css?
family=Bitter:400,700|Pontano+Sans);

h1, h2, h3, h4 {
  font-family: Bitter, serif;
}

p {
  font-family: "Pontano Sans", sans-serif;
}
```

Google Fonts

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Standard @import Javascript

3. Add this code to your website:

```
<link href="http://fonts.googleapis.com/css?family=Bitter:700|Pontano+Sans&subset=latin-ext" rel="stylesheet">
```

Instructions: To embed your Collection into your web page, copy the code as the first element in the <head> of your HTML document.

[» See an example](#)

4. Integrate the fonts into your CSS:

The Google Fonts API will generate the necessary browser-specific CSS to use the fonts. All you need to do is add the font name to your CSS styles. For example:

```
font-family: 'Bitter', serif;
font-family: 'Pontano Sans', sans-serif;
```

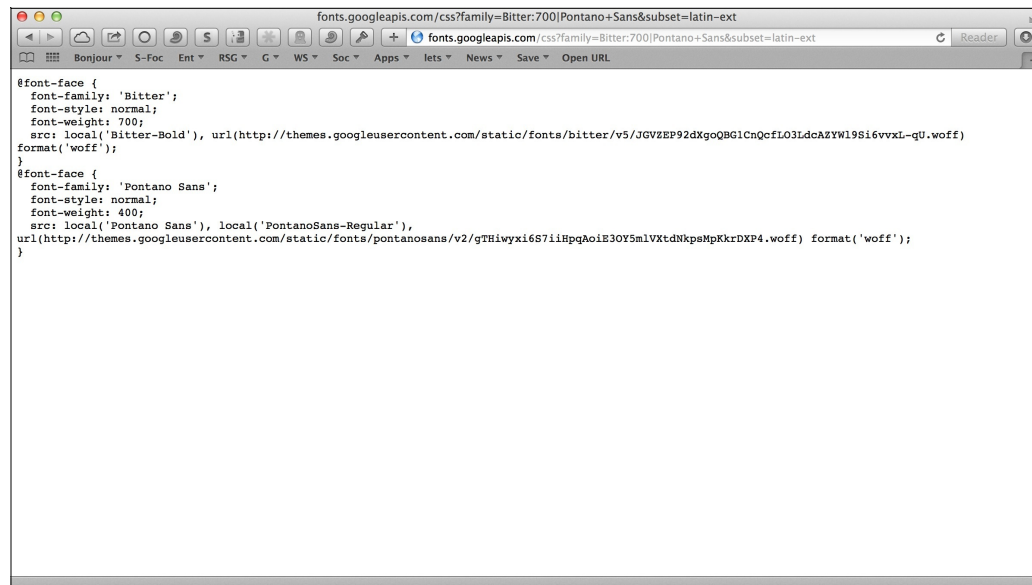
Instructions: Add the font name to your CSS styles just as you'd do normally with any other font.

Example:

```
h1 { font-family:
'Metrophobic', Arial, serif;
font-weight: 400; }
```

Collection (2 font families)

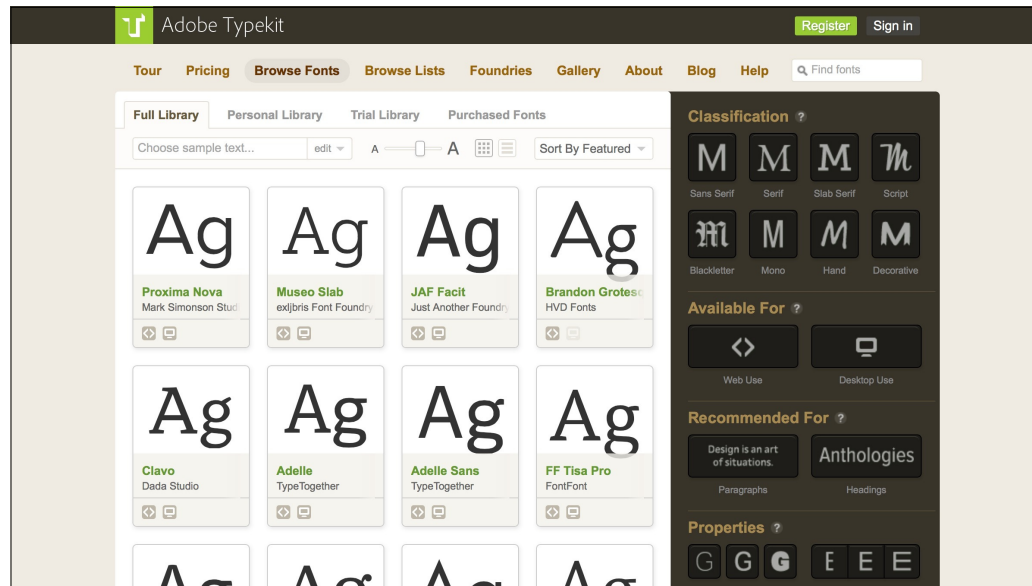
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Display

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Casual

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357

237

130

116

110

108

40

203

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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.

Choose Font Formats:

☒ TTF
 ☒ EOT
 ☒ WOFF
 ☒ SVG

Formats:

TTF - Works in most browsers except IE and iPhone.
EOT - IE only.
WOFF - Compressed, emerging standard.
SVG - iPhone/iPad.

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Handdrawn 56	Headings 116
Script 53	Casual 110
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Group to whom I'm speaking

R. Scott Granneman

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