

Group to whom I'm speaking

R. Scott Granneman

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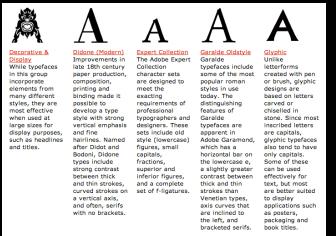
Basics

Types

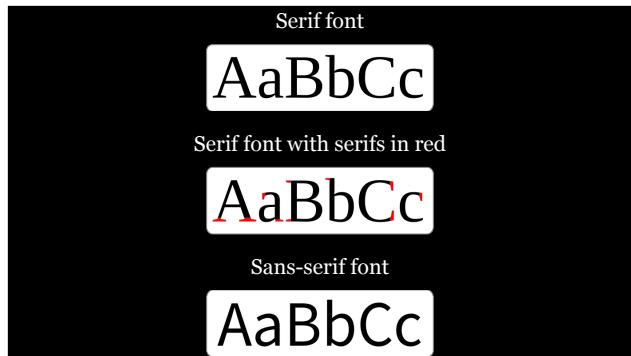
Most basic:

Serif
Sans-serif
Monospaced/Monospaced

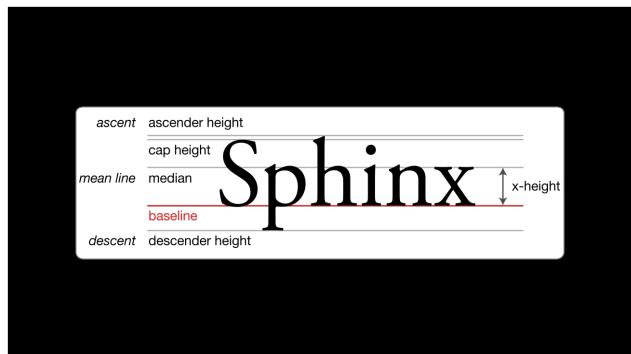
Adobe Type Classifications
www.adobe.com/type/browser/classifications.html



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



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:Typoghaphia.svg
en.wikipedia.org/wiki/Typeface_anatomy

Measure

10

Measure

Length of a line of text

Measure should be
pleasing to the eye & facilitate reading

11

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

12

13

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.

14

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.

15

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

19

Leading of 0.8

 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.

20

Leading of 1.7

 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.

21

Leading of 1.3

 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.

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

25

Don't size text arbitrarily

Use a scale for your fonts

26

The Classical Scale

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

27

Fibonacci sequence scale

1 1 2 3 5 8 13 21 34 55 89

The W3 provides a very usable, standard scale

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

```
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

Lore ipsum dolor sit amet, consectetur adipisic 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

Lore ipsum dolor sit amet, consectetur adipisic 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

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Heading Level 5 Lorem Ipsum

Lore ipsum dolor sit amet, consectetur adipisic 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

Lore ipsum dolor sit amet, consectetur adipisic 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.

31

Typography & the Web

32

Operating System Defaults

33

WINDOWS 95	WINDOWS 98	WINDOWS 2000	WINDOWS XP	WINDOWS Vista	WINDOWS 7
Arial Arial Bold Arial Black Arial Italic Arial Bold Italic Arial Italic Century Century New Century New Bold Century New Bold Italic Century New Italic Modern MS Sans MS Sans serif MS Serif Small Fonts Symbol Times New Roman Times New Roman Bold Times New Roman Italic Times New Roman Bold Italic Wingdings	New Fonts Abadi MT Condensed Light Abhiro Bold Abhiro Italic Book Antiqua Calisto Centaur Gothic Century Gothic Bold Century Gothic Italic Mangal Palatino Linotype Palatino Linotype Bold Corporation Gothic Bold Corporation Gothic Light Script Times New Roman Lucida Console Lucida Handwriting Italic Lucida Sans Lucida Sans Unicode Monospace ITC News Gothic MT News Gothic MT Bold News Gothic MT Italic OCR A Extended Tahoma Tempus Sans ITC Vernon Verdana Bold Verdana Italic Verdana Bold Italic Wingdings Westminster	New Fonts Comic Sans MS Comic Sans MS Bold Georgia Georgia Bold Georgia Italic Georgia Bold Italic Georgia Georgia Bold Georgia Italic Georgia Bold Italic Lucida Lucida Calligraphy Lucida Console Lucida Handwriting Lucida Sans Lucida Sans Unicode Monospace Monospace Palatino Linotype Palatino Linotype Bold Corporation Gothic Bold Corporation Gothic Light Script Times New Roman Lucida Console Lucida Handwriting Italic Lucida Sans Lucida Sans Unicode Monospace ITC News Gothic MT News Gothic MT Bold News Gothic MT Italic OCR A Extended Tahoma Tempus Sans ITC Vernon Verdana Bold Verdana Italic Verdana Bold Italic Wingdings Westminster	New Fonts Estrangelo Edessa Franklin Gothic Medium Franklin Gothic Medium Italic Garamond Garamond Italic Karika Litho Lucida Console Lucida Sans Lucida Sans Demibold Lucida Sans Demibold Italic Lucida Sans Unicode Monospace Me Boli Script Shruti Sylfaen Tunga Vienna WST_Cacc WST_Engl WST_Itali WST_Germ WST_Ind WST_Span WST_Swed	New Fonts Cambria Calibri Droid Sans Consolas Constantia Nyala Segoe UI Segoe UI Symbol Live Font Gabriola Segoe Print Segoe Print Bold Segoe Script Segoe Script Bold Segoe UI Segoe UI Bold Segoe UI Symbol NOTE: The new Vista fonts are the new fonts designed for the new Vista display technology. Microsoft has provided some replacements for: Cambria = Georgia and Times New Roman Calibri = Arial Cambria = Trebuchet MS and Helvetica Consolas = Lucida Console Constantia = Century New Comicsans = Georgia and Palatino Corbel = Verdana	Cambria Calibri Droid Sans Consolas Constantia Nyala Segoe UI Segoe UI Symbol Live Font Gabriola Segoe Print Segoe Print Bold Segoe Script Segoe Script Bold Segoe UI Segoe UI Bold Segoe UI Symbol NOTE: The new Vista fonts are the new fonts designed for the new Vista display technology. Microsoft has provided some replacements for: Cambria = Georgia and Times New Roman Calibri = Arial Cambria = Trebuchet MS and Helvetica Consolas = Lucida Console Constantia = Century New Comicsans = Georgia and Palatino Corbel = Verdana

34

www.tlccreative.com/samples/OS_Fonts_by_TLC.pdf



XP	133
Vista	191
7	235
8	278

35



10.5 Leopard	160
10.6 Snow Leopard	248
10.7 Lion	225
10.8 Mountain Lion	242
10.9 Mavericks	247

36

iOS

	iPhone	iPad
3	44	—
4	41	67
5	57	57
6	61	61
7	71	71

37



1-3	3
4	6

38



7	25
8	37

39

Web Browser Defaults

40

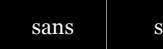
41

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

42

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

43

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

44

Microsoft's Core Fonts for the Web

45

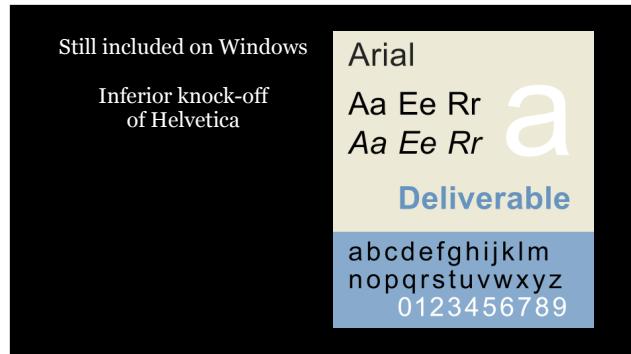
Provided by Microsoft royalty-free 1996-2002

Still legally available all over the Web & on all Macs



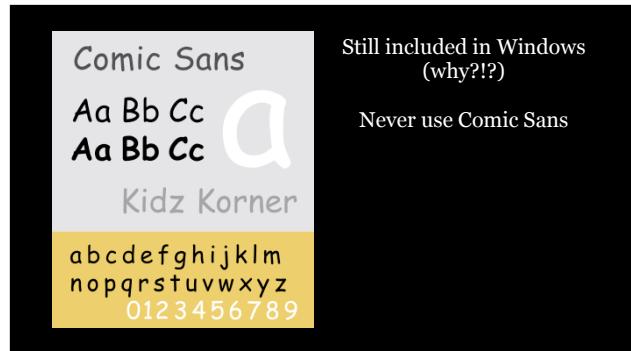
46

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



47

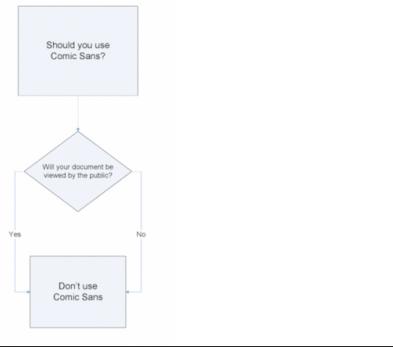
en.wikipedia.org/wiki/File:ArialMTsp.svg



48

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

49



Actually Courier New

Inferior version of Courier
Still included in Windows



50

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

Georgia

Aa Qq Rr
Aa Qq Rr

a

Bobwhite

abcdefghijklmnopqrstuvwxyz
0123456789

Still included
with Windows

Decent if over-used serif

51

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

Still included
with Windows



52

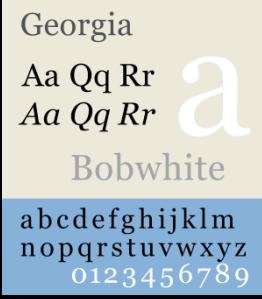


Still included in Windows

OK for print;
horrible for screens

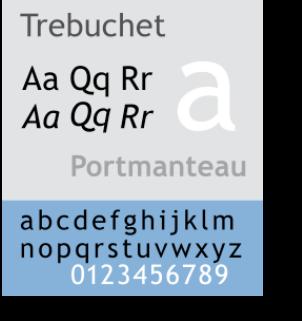
53

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



54

Still included in Windows



55

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

Verdana

Aa Ee Rr

Aa Ee Rr

Sylvestris

abcdefghijklmnopqrstuvwxyz

0123456789

Still included in Windows

56

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

Still included in Windows



57

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

Microsoft ClearType Font Collection

58

Introduced with:

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

59

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

Calibri:
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz

60

61

Cambria:
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

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

62

Candara:
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

63

Consolas:
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

Monospaced font
Licensed by Bare Bones
as the default in BBEdit

64

Constantia:

abcdefghijklm
nopqrstuvwxyz
ABCDEFGHIJKLM
NOPQRSTUVWXYZ
abcdefghijklm
nopqrstuvwxyz

65

Corbel:

abcdefghijklm
nopqrstuvwxyz
ABCDEFGHIJKLM
NOPQRSTUVWXYZ
abcdefghijklm
nopqrstuvwxyz

66

Font Properties

```
font-size  
line-height  
font-style  
font-variant  
font-weight  
font-family
```

67

font-size

68

Specify size using

```
<absolute-size>  
<relative-size>  
  <length>  
  <percentage>
```

69

70

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

71

<relative-size>

- larger
- smaller

72

<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	x-height 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

76

<percentage>
Relative to parent's font size

150%
1.5em

77

line-height

78

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

79

Specify size using

```
normal  
<number>  
<length>  
<percentage>
```

80

normal

Desktop browsers use a default value of roughly 1.2

81

<number>

Unitless

Preferred way to set `line-height`

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

<length>

82

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>

83

Relative to the font size of the element

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

Be careful—`%` may give you unexpected results

font-style

84

85

normal
italic
oblique

86

italic **oblique**
Cursive Sloped
Specially-designed font Computer simulates italic

N a *N a*

87

font-variant

normal	Scott Granneman
small-caps	SCOTT GRANNEMAN

88

font-weight

89

Possible values

normal

bold

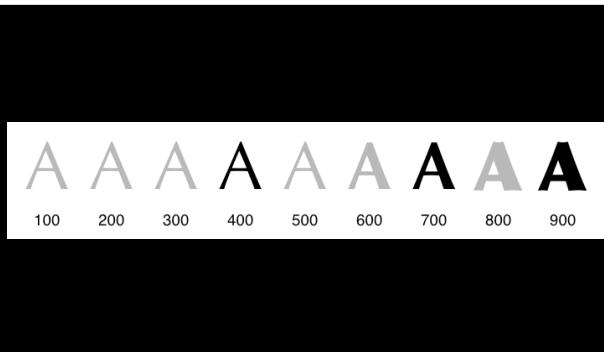
bolder, lighter

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

90

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	

91



92

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



93

94

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

95

```
family-name  
Arial  
Helvetica  
“DejaVu Sans”  
“Times New Roman”
```

96

```
generic-family can be  
serif  
sans-serif  
cursive  
fantasy  
monospace
```

97

cursive

Savoye LET

Snell Roundhand



98

fantasy

Poetica LET

Chalkduster

Noteworthy

Bradley Hand

99

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"

100

practicaltypography.com/system-fonts.html

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

Butterick's "C list: Questionable"

101

practicaltypography.com/system-fonts.html

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)	

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

102

practicaltypography.com/system-fonts.html

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

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

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;
```

106

The order:

Ideal, Alternative, Common, Generic

107

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

108

Sans serif	
Wide	Narrow
Verdana	Futura
Trebuchet MS	Helvetica
	Arial
	Avenir

109

Serif	
Wide	Narrow
Georgia	Times New Roman
Iowan Old Style	Times
Palatino	Baskerville
Superclarendon	Cochin

110

Monospace	
Wide	Narrow
Courier	Andale Mono
Courier New	Menlo
American Typewriter	

111

A great rule of thumb

Serifs for headers & sans-serifs for body

OR

Sans-serifs for headers & serifs for body

112

Narrow sans-serif header font stack

Marco Arment's The Magazine

113

"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 releasing official live recordings.

Behind the music

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

114

Wide serif body font stack

"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

Text Properties

```
color           text-indent
text-shadow     white-space
letter-spacing   word-break
word-spacing     word-wrap
text-decoration  direction
text-transform    unicode-bidi
```

118

Appearance

119

text-decoration
text-transform

120

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;}  
  
<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>
```

121

text-transform

Specifies capitalization

122

```
.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>
```

123

124

Display

125

color

126

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
```

127

White Space

128

```
text-indent  
white-space
```

129

130

text-indent

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

131

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.

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>
```

132

white-space

Specifies whitespace inside an element is handled

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

133

	Newlines	Whitespace	Wrapping
normal	Collapse	Collapse	Wrap
nowrap	Collapse	Collapse	No wrap
pre	Preserve	Preserve	No wrap
pre-wrap	Preserve	Preserve	Wrap
pre-line	Preserve	Collapse	Wrap

134

Line Box Properties

135

`text-align`

Specifies how inline content
is aligned in its parent block element

CODEPEN

Save Fork Info Share Editor 136

HTML

```
<p class="left">I am left-aligned</p>
<p class="right">I am right-aligned</p>
<p class="center">I am centered</p>
<p class="justify">I am justified text with words of greatly varying lengths & vocabulary type. My knowledge of the Semitic languages is derived from my study of my great-uncle, George Gamaliel 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>
```

I am left-aligned

I am centered

I am right-aligned

I am justified text with words of greatly varying lengths & vocabulary type. My knowledge of the Semitic languages is derived from my study of my great-uncle, George Gamaliel 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 ⌂ ⌂ ⌂

137

Multi-Column Layout

columns
column-count
column-width

column-gap

138

- 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
- Offline documentation
- Regular Expressions (RegEx)
- SimpleSite
- OpenDNS
- Backing up
- Password safes
- SSL
- The best help sites
- Ebooks
- Markdown
- Wolfram Alpha
- Cookies
- LAMP (or 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

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 ↴

139

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`

140

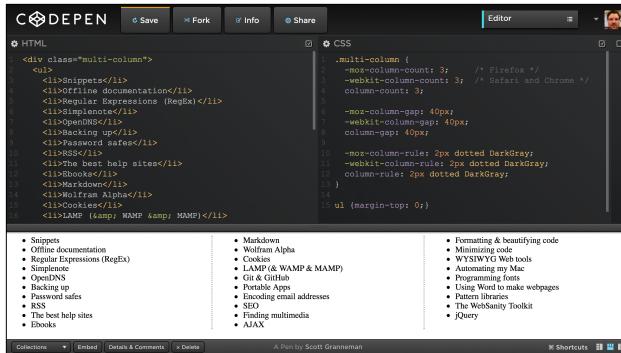
column-gap

Specifies size of the gap between columns

141

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**



The screenshot shows a CodePen interface with an HTML section containing a list of links and a CSS section with the following code:

```


- Snippets
- Offline documentation
- Regular Expressions \(RegEx\)
- Simplexite
- OpenDNS
- Dnsimple
- Upgrading up!
- Patching up!
- RSS
- MDNS
- Help sites
- CloudFlare
- Markdown
- Wolfram Alpha
- Cookies
- LAMP \(& WAMP & MAMP\)


```

The CSS section includes vendor prefixes for Firefox, Safari, and Chrome, defining column-count, column-gap, and column-rule properties.



The chart shows the compatibility of four column-related CSS properties across six different platforms: Internet Explorer (IE), Opera, Google Chrome, Mozilla Firefox, Android, and iOS. The 'column-count' property is supported by all platforms. The 'column-width' property is supported by IE, Opera, and Chrome. The 'column-gap' property is supported by IE, Opera, and Mozilla Firefox. The 'column-rule' property is supported by IE, Opera, Mozilla Firefox, and iOS.

	IE	Opera	Chrome	Firefox	Android	iOS
column-count	10	-webkit -webkit	-moz	?	?	
column-width	10	-webkit -webkit	-moz	?	?	
column-gap	10	-webkit -webkit	-moz	?	?	
column-rule	10	-webkit -webkit	-moz	?	?	

Embedded Fonts

145

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

146

Formats

147

148

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

149

TTF
TrueType Fonts

Font standard released by Apple in 1991

Standard on Mac OS X & Windows

On the Web, simply link to TTF file

150

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

151

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

152

SVG
Scalable Vector Graphics

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

Open standard developed by W3C since 1999

153

@font-face

154

CSS2 introduced @font-face

155

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

156

src

Location of font

Can be local or remote

157

```
@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

158

```
@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

159

```
@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!

160

Browser Support

161

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

162

Licensing

Problem:

Unauthorized copying

Solution:

- » Open, free fonts
- » Licensed fonts

Open, free fonts

The screenshot shows the homepage of Webfonts.info. At the top, there's a navigation bar with links for 'About', 'Contact', 'Follow', and 'Help'. Below the header, there's a section titled 'BRANDON PRINTED SECRET' with a link to 'February 11 | Articles & resources'. There are also sections for 'Farmhouse Red Onion Tartlet' (January 15) and 'Speedo USA: Art of the Cap' (January 8). On the right side, there's a sidebar with links for 'Real sites made with webfonts', 'WEBFONTS IN ACTION', 'Read articles about webfonts', 'NEWS & ARTICLES', and 'Help and resources for webfonts', with a 'RESOURCES' link.

166

www.webfonts.info

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

The screenshot shows the homepage of the Open Font Library. At the top, there's a navigation bar with links for 'OPEN FONT LIBRARY', 'CATALOGUE', 'GUIDEBOOK', 'SIGN UP', 'SIGN IN', 'English', and a search bar. Below the header, there's a section titled 'Featured Fonts' with a red banner containing the text 'Heavy boxes perform quick waltzes and jigs.' Below this, there are sections for 'Latest Fonts' and a 'WELCOME' message. The 'WELCOME' message states: 'The Open Font Library promotes your freedoms as it relates to the use of type. All the fonts that appear on this site come with the freedom to use, study, share and remix them. Browse our catalogue and see what's new.' There are also links for 'PECOIA', 'NEWS CYCLE', 'AVIERIA', 'GOTHICWRITER', 'NET_TALAT', and 'SHARE YOUR FONTS'.

167

openfontlibrary.org/en

286 font families

The screenshot shows the homepage of The League of Moveable Type. At the top, there's a navigation bar with links for 'Newsletter', 'Books', 'Manifesto', 'Blog', 'Join', and 'Login'. Below the header, there's a main heading 'theleagueofmovabletype.com'. Underneath this, there's a sub-headline 'No More Bullshit. Join the Revolution.' followed by a paragraph of text about the League's mission. At the bottom, there's a large yellow banner with the text 'NEW OSTRICH SANS INTERNATIONAL INLINE ITALIC ÅÅÅÅÅÅ'.

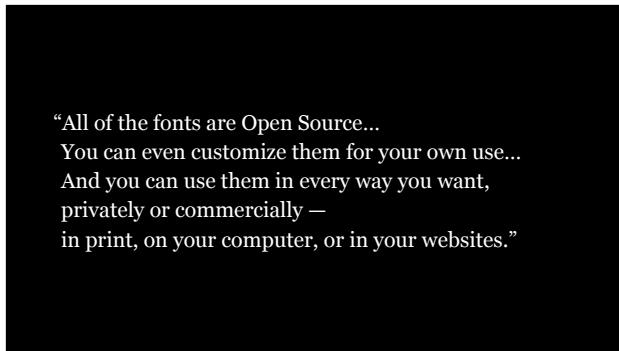
168

www.theleagueofmoveabletype.com

The screenshot shows the Google Fonts interface with a search bar at the top containing the text "Grumpy wizards make toxic brew for the evil Queen and Jack." Below the search bar are filter options: "Word", "Sentence", "Paragraph", and "Poster". The "Sentence" option is selected. There are also dropdown menus for "Preview Text" (set to "Grumpy wizards make tox"), "Size" (set to "28 px"), and "Sorting" (set to "Trending"). A "More scripts" link is visible at the top right. On the left, there's a sidebar with "Filters" for "All categories", "Thickness", "Slant", "Width", and "Script" (set to "Latin"). Below the filters is a "Reset all filters/search" button. The main content area displays two font results. The first result is "Gabriola, 1 Style by Eduardo Tunni" in a normal weight, with the preview text "Grumpy wizards make toxic brew for the evil Queen and Jack." The second result is "Russo One, 1 Style by Jovanny Lemonad" in a bold weight, with the preview text "GRUMPY WIZARDS MAKE TOXIC BREW FOR THE EVIL QU". At the bottom, there's a "Collection (0 font families)" section with "Choose", "Review", and "Use" buttons.

169

www.google.com/fonts
632 font families



170

www.google.com/fonts#AboutPlace:about

The screenshot shows the Beautiful Web Type website. The main title "Beautiful Web Type" is displayed in a large, bold, serif font. Below the title, a subtitle reads "A showcase of the best typefaces from the Google web fonts directory." There is a small note: "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." At the bottom of the page, there's a dark footer bar with the URL "hellohappy.org/beautiful-web-type/" in white text.

171

171

172

"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*

Coda

173

UNITY
RHYTHM
BALANCE
EMPHASIS
PROXIMITY
HIERARCHY

Lato

174

ON
THE ORIGIN OF SPECIES

Old Standard TT

BY MEANS OF NATURAL SELECTION

BY CHARLES DARWIN, M.A.,
FELLOW OF THE ROYAL GEOLOGICAL, LINNEAN, 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

FRIEDRICH NIETZSCHE

[Open Sans](#)

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 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 perhaps 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 leader's 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.

175

On the
GENEALOGY of MORALS

FRIEDRICH NIETZSCHE

[Open Sans](#)

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 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 perhaps 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 leader's 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.

[Garamond Book Basic](#)

176

bueltge.de/free-web-font-combinations/

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.

177

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*, 200, 200 *italic*, 300, 300 *italic*,
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*, 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

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*

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

Lato

100, 100 *italic*, 200, 200 *italic*, 300, 300 *italic*,
400, *italic*, 700, 700 *italic*, 800, 800 *italic*, 900,
900 *italic*

Open Sans

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*

Raleway

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

178

MEMBER SIGN IN ▾ BECOME A MEMBER ▾ NEED SUPPORT? ▾ 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 About SkyFonts About Google Fonts

Desktop versions of Google Fonts are SkyFonts is a lightweight, patent- Google Fonts is the leading host of

www.fonts.com/web-fonts/google

179

Google Fonts

122 font families shown Word Sentence Paragraph Poster

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

Filters: Serif Sans-Serif Display Handwriting

Latin Reset all filters/search

Styles: Show all styles

Gabriola, 1 Style by Eduardo Tumil

Normal 400

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

PT Serif Caption, 2 Styles by ParaType

Normal 400

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

Gilda Discov, 1 Style by Eduardo Tumil

Normal 400

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

Collection (0 font families)

180

Google Fonts

More scripts About Analytics New to Google Fonts?

57 font families shown Word Sentence Paragraph Poster

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

Filters: **Serif**

- Thickness
- Slant
- Width

Script:

- Latin Extended
- Cyrillic
- Cyrilic Extended
- Greek
- Greek Extended
- Khmer
- Latin
- Latin Extended
- Vietnamese

Collection (0 font families)

Normal 400
Grumpy wizards make toxic brew for the evil Queen and Jack.
Gabriola, 1 Style by Eduardo Torni

Normal 400
Grumpy wizards make toxic brew for the evil Queen and Jack.
PT Serif Caption, 2 Styles by ParaType

Normal 400
Grumpy wizards make toxic brew for the evil Queen and Jack.
Gilda Display, 1 Style by Eduardo Torni

181

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

Collection (0 font families)

Bold 700
Grumpy wizards make toxic brew for the evil Queen and Jack.
Robot Slab, 4 Styles by Christian Robertson

Bold 700
Grumpy wizards make toxic brew for the evil Queen and Jack.
Bitter, 3 Styles by Huerta Tipografica

Bold 700
Grumpy wizards make toxic brew for the evil Queen and Jack.
Poldava, 2 Styles by Orneel

182

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

Collection (1 font family)

Bold 700
Grumpy wizards make toxic brew for the evil Queen and Jack.
Robot Slab, 4 Styles by Christian Robertson

Bold 700
Grumpy wizards make toxic brew for the evil Queen and Jack.
Bitter, 3 Styles by Huerta Tipografica

Bold 700
Grumpy wizards make toxic brew for the evil Queen and Jack.
Noto Sans, A SIL Open Font by Google

183

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
- Script
- Latin Extended
- Reset all filters/search
- Show all styles

Collection (1 font family)

Russo One, 1 Style by Jovanny Lemonad

Normal 400 Grumpy wizards make toxic brew for the evil Queen and Jack.

Exo 2, 18 Styles by Natanael Gama

Normal 400 Grumpy wizards make toxic brew for the evil Queen and Jack.

Ruda, 3 Styles by Multiple Designers

Choose Review Use

184

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
- Show all styles

Collection (2 font families)

Sintony, 2 Styles by Eduardo Rodriguez Tunil

Normal 400 Use this style Grumpy wizards make toxic brew for the evil Queen and Jack.

Pontano Sans, 1 Style by Vernon Adams

Normal 400 Grumpy wizards make toxic brew for the evil Queen and Jack.

Basic, 1 Style by Magnus Gaarde

Choose Review Use

185

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
- Show all styles

Collection (2 font families)

Sintony, 2 Styles by Eduardo Rodriguez Tunil

Normal 400 Use this style Grumpy wizards make toxic brew for the evil Queen and Jack.

Pontano Sans, 1 Style by Vernon Adams

Normal 400 Grumpy wizards make toxic brew for the evil Queen and Jack.

Bitter, Normal 400 Bold 700

Pontano Sans Normal 400

Remove all families from Collection

186

Specimen Styles Test Drive Character Set Compare Description Try in Typecast

Preview Text: Grumpy wizards make tox... Show Apply amount to all...

Script Latin Extended

Pontano Sans

Paragraph Normal 400 Use this style

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 armour-like back, and if he lifted his head a little he could see his brown belly, slightly ribbed and divided by etches into stiff sections. The bedding was hardly able to cover it and seemed ready to slide off at any moment. His many legs, pitifully thin compared

1 Style by Vernon Adams
SIL Open Font License, 1.1

- Collection (2 font families)

Bitter Normal 400 Italic 700
Pontano Sans Normal 400

Remove all families from Collection

187

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 Jac

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.

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

Choose Review Use

188

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 Jac

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.

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

Choose Review Use

189

190

The screenshot shows the Google Fonts interface for a collection of two font families. It includes sections for 'Standard', 'Import', and 'Javascript' options. Below these are instructions for adding code to your website and integrating the fonts into CSS. A preview section shows a snippet of CSS with font-family declarations for 'Bitter' and 'Pontano Sans'. At the bottom, there are 'Choose', 'Review', and 'Use' buttons.

191

```
<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>
```

192

```
<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>
```

193

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.
x 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;
```

Google Fonts are powered by the

Collection (2 font families) Choose Review Use

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```
<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;
}
```

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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.
x 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:

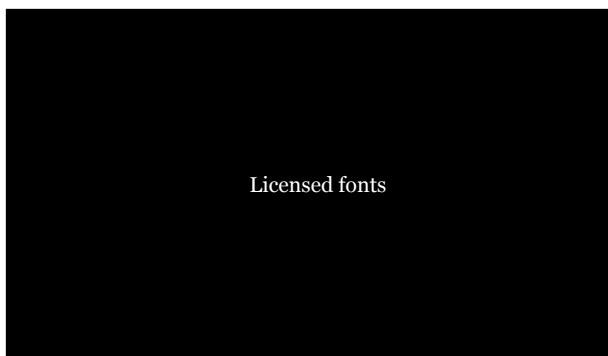
```
font-family: 'Bitter', serif;
font-family: 'Pontano Sans', sans-serif;
```

Collection (2 font families) Choose Review Use

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```
font-family: 'Bitter';
font-style: normal;
font-weight: 700;
src: url('http://themes.googleapiscontent.com/static/fonts/bitter/v5/JQVEZP92dkpqQBGICnqrlfGtHdcATWV19SiKvvxL-qtl.woff');
format('woff');

font-face {
  font-family: 'Pontano Sans';
  font-style: normal;
  font-weight: 400;
  src: local('Pontano Sans'), local('Pontano Sans-Regular'),
  url('http://themes.googleapiscontent.com/static/fonts/pontanosans/v2/g7Hiwyxi6071iBpgkoiE3OY5elVxtd8XpelpgKxrDXP4.woff') format('woff');
```



Licensed fonts



typekit.com

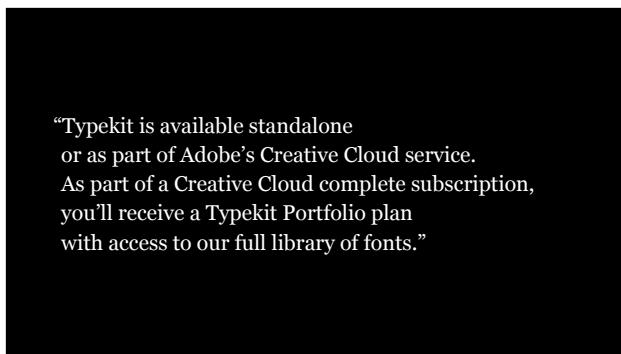


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typekit.com/fonts

Plan	Features	Price
Trial	This one's on us Trial Library access Not available Not available Web fonts 25,000 Pageviews/month 1 Website 2 Fonts per site Typekit badge required	\$0.00
Personal	Perfect for your blog Personal Library access Selector fonts Not available Web fonts 50,000 Pageviews/month 2 Websites 8 Fonts per site	\$24.99 per year That's just \$2 per month!
Portfolio	Everything you need Full Library access Selector fonts 100 Fonts syndicated once Web fonts 500,000 Pageviews/month Unlimited Websites Unlimited Fonts per site	\$49.99 per year That's just \$4 per month!
Business	Awesome capacity Full Library access Selector fonts 200 Fonts syndicated once Web fonts 1M Pageviews/month Unlimited Websites Unlimited Fonts per site	\$99.99 That's just \$8 per month!

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help.typekit.com/customer/portal/articles/529506-getting-started-with-typekit-and-creative-cloud

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HOME FIND FONTS HOT RECENT ALMOST FREE WEBFONT GENERATOR FAQ

SEARCH FONTS & FOUNDRIES

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 AaBbCcDdEeFfGgHhIi

[Source Sans Pro](#) Adobe 12 Styles DOWNLOAD OTF

Source Code Pro AaBbCcDdEe

[www.fontsquirrel.com](#)



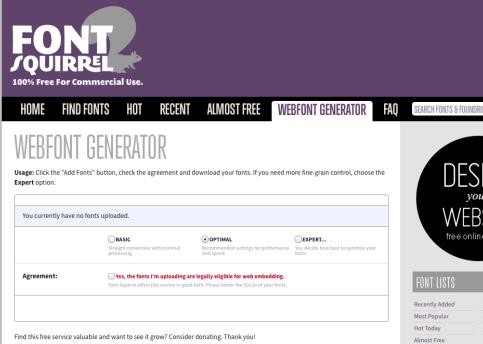
202 www.fontsquirrel.com

The screenshot shows the 'GOODDOG' font page. At the top, there's a navigation bar with links for HOME, FIND FONTS, HOT, RECENT, ALMOST FREE, WEBFONT GENERATOR, and FAQ. Below the navigation is a search bar labeled 'SEARCH FONTS & FOUNDRIES'. The main content area features a large, stylized font sample for 'GOODDOG' with the tagline 'The spirit is willing but the flesh is weak'. Below the sample are sections for 'Specimens', 'Text Drive', 'Glyphs', 'License', and 'Webfont Kit'. A 'DOWNLOAD OTF' button is prominently displayed. To the right of the font sample, there's a sidebar titled 'DESIGN your WEBSITE free online editor' with a 'FONT LISTS' section containing links like 'Recently Added', 'Most Popular', 'Hot Today', and 'Almost Free'. There's also a 'FIND FONTS' section with classification and tag filters.

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This screenshot is identical to the one above, showing the 'GOODDOG' font page. However, it includes additional options under the 'Webfont Kit' section: 'Subsetting' (with a dropdown menu for 'Western Latin (Default)'), 'Choose a Subset:', and 'Choose Font Formats:' (checkboxes for TTF, EOT, WOFF, and SVG). A note below these says: '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.' Below this are buttons for 'DOWNLOAD OTF & WEBKIT' and 'FONTS'. The 'FONTS' section shows a preview of the font 'GoodDog AaBbCcDdEeFfGgHhIiJjKkLlMmNn' and a note 'GoodDog Regular | 155 Glyphs'. At the bottom is a 'FONT INFORMATION' link.

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CSS Typography Fonts & Formatting

Group to whom I'm speaking

R. Scott Granneman

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