

Formatting text

Web development I: Front-end engineering

Specifying fonts is more like merely *suggesting* them

We don't really have full control over which font users will see

We should use generic fonts as a *fallback*

Font Properties

font-family

Font name

font-size

Font size

font-weight

Font weight (boldness)

font-style

Font style (italics)

font-variant

Font variant (small caps)

font

Shorthand declaration

Specifying the font name

- Font names must be capitalized: “Arial” instead of “arial”
 - **Exception:** generic font families: `sans-serif`, `monospace`, **etc.**
- Use commas to separate multiple font names as fallback cases:
 - `p { font-family: Arial, sans-serif; }`
- Font names with spaces (e.g. Duru Sans) must appear within quotes:
 - `p { font-family: "Duru Sans", Arial, sans-serif; }`

Generic font families

Serif (e.g. Times New Roman)

Sans-serif (e.g. Arial)

Monospace (e.g. Courier New)

Cursive (e.g. Comic Sans)

Fantasy (e.g. Impact)

Serif



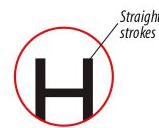
Hello
Times

Hello
Georgia

Hello
Times New Roman

Hello
Lucida (Mac)

Sans-serif



Hello
Veranda

Hello
Trebuchet MS

Hello
Arial

Hello
Arial Black

Monospace

W i
Monospace font
(equal widths)

W i
Proportional font
(different widths)

Hello
Courier

Hello
Courier New

Hello
Andale Mono

Cursive

Hello
Apple Chancery

Hello
Comic Sans

Hello
Snell

Fantasy

Hello
Impact

HELLO
Stencil

HELLO
Mojo

Custom web fonts

```
@font-face {  
    font-family: "myFont";  
    src: url("myFont.woff2");  
}
```

```
html {  
    font-family: "myFont", serif;  
}
```

Many fonts aren't free to use: check license!

All browsers understand the [WOFF](#) format

WOFF2 supports [TrueType](#) and [OpenType](#) fonts

Font declaration order is important

Specifying the font size

```
h1 { font-size: 1.5em; }
```

Specific CSS units: em, rem, px, vh, etc.

```
h1 { font-size: 150%; }
```

Percentages

```
h1 { font-size: x-large; }
```

Absolute keywords

```
h1 { font-size: larger; }
```

Relative keywords

Default font size is 16px

CSS units

Absolute:

px	pixels
pt	points
pc	picas
mm	millimeters
cm	centimeters
in	inches

(only good for **print** materials)

Relative:

em	computed font-size value
ex	x-height of the font
rem	root em, set in <code>html</code> element
ch	width of the zero (0) letter
vw	viewport width, 1% default
vh	viewport height, 1% default
vmin	viewport min(width,height) size
vmax	viewport max(width,height) size

Specifying other font styles

font-weight: normal | bold | bolder | lighter | 100 | 200 | 300 | 400 | 500 | 600 | 700
| 800 | 900 | inherit

font-style: normal | italic | oblique | inherit

font-variant: normal | small-caps | inherit

Shorthand declaration: style + weight + variant + **size**/line-height + **family**

```
h3 { font: oblique bold small-caps 1.5em/1.8em Verdana, sans-serif; }
```

Changing text color

```
p { color: gray; }
```

```
p { color: #665544; }
```

```
p { color: #654; }
```

```
p { color: rgb(10, 12, 56); }
```

```
p { color: rgba(10, 12, 56, 0.5); }
```

```
p { color: hsl(265, 23%, 90%); }
```

Color [names](#)

Hexadecimal notation (RRGGBB)

Shorthand hex notation

RGB decimal notation

RGBA decimal notation with transparency

HSL notation

line-height: number | length measurement | percentage | normal | inherit

text-indent: length measurement | percentage | inherit

text-align: left | right | center | justify | inherit

text-decoration: none | underline | overline | line-through | blink

text-transform: none | capitalize | lowercase | uppercase | inherit

letter-spacing: length measurement | normal | inherit

word-spacing: length measurement | normal | inherit

Text adjustments

vertical-align: baseline | sub | super | top | text-top | middle |

textbottom | bottom | percentage | length | inherit

white-space: normal | pre | nowrap | pre-wrap | pre-line | inherit

text-direction: ltr | rtl | inherit

text-shadow: 'horizontal offset' 'vertical offset' 'blur radius' 'color' | none

List bullets and numbers

list-style-type: none | disc | circle | square | decimal | decimal-leading-zero | lower-alpha | upper-alpha | lower-latin | upper-latin | lower-roman | upper-roman | lower-greek | inherit

list-style-position: inside | outside | inherit

list-style-image: url | none | inherit