

# Formatting text

Web development I: Front-end engineering

Specifying fonts is more like merely *suggesting* them.

You don't really have control over which font users will see.

You 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



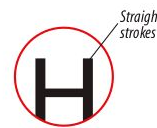
Hello  
Times

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;  
}
```

Fonts generally aren't free to use.

All browser understand the WOFF format.

WOFF2 supports TrueType and OpenType fonts.

Loading 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

## 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; }
```

Color [names](#)

```
p { color: #666666; }
```

Hexadecimal notation

```
p { color: #666; }
```

Shorthand hex notation

```
p { color: rgb(102, 102, 102); }
```

RGB decimal notation

```
p { color: rgba(102, 102, 102, 0.5); }
```

RGBA decimal notation (with transparency)

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

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