CSS & TYPOGRAPHY

CSS Text Properties, Fonts, Font Properties



SoftUni Team Technical Trainers







Software University

https://softuni.bg

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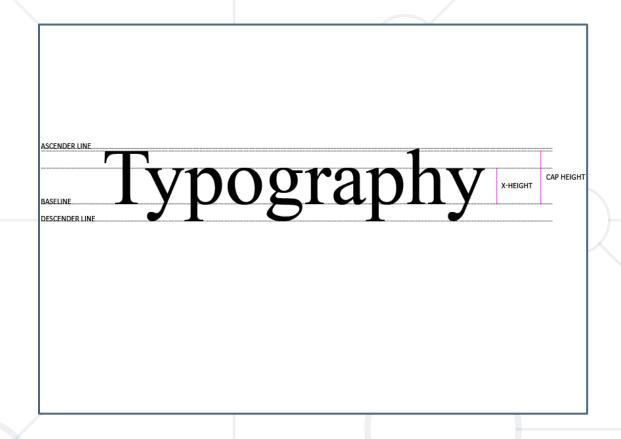


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Have a Question?



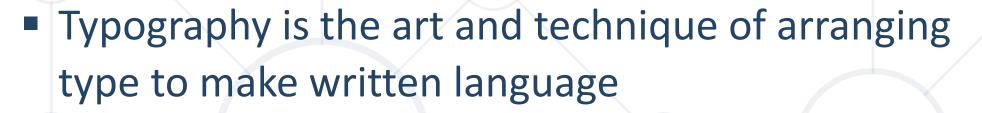




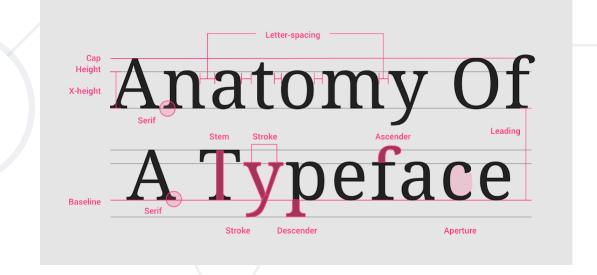
CSS Font Properties

What is Typography?





- Legible, readable and appealing
- Typography is the visual component of the written word

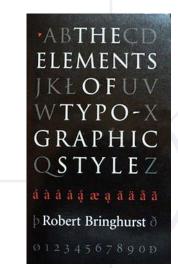




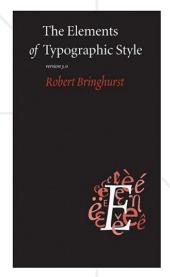
Books



The Elements of Typographic Style the authoritative book on typography
 and style



The Elements of Typographic Style
 Applied to the Web - a practical guide
 to web typography





Principles of Readability



- Readability is one of the most important aspects of Web design usability
- Website readability is a measure of how easy it is for visitors to read and understand online text
- Readability depends on both a text's presentation and its context
- Poor readability scares readers away from the content

Keys to Readable Typography





- White Space scannable and consistent text
- Emphasis of Important Elements
- Good Margins to avoid walls of text
- Scannable Text
- Consistency
- Organization of Information



Web Safe Fonts



- Maximum compatibility between browsers/operating systems
- Generic family fonts:

Font Name			
Arial	Times New Roman		
Courier New	Trebuchet MS		
Georgia	Verdana		

Font Files



- Font files contain one or more fonts that can be accessed by the OS and applications
- Most modern fonts are stored in the following formats:
 - OpenType (.OTF)
 - TrueType (.TTF)
 - Web Open Font Format (.WOFF)
 - Web Open Font Format 2 (.WOFF2)





Font Properties



- The CSS font properties styles the font of the text:
 - font-family / font-face (e. g. sans-serif, Arial)
 - font-size / line-height (e. g. 18pt)
 - font-weight (e. g. bold)
 - font-style (e. g. *italic*)
 - font-variant (e. g. SMALLCAPS)

Georgia <u>Underlined</u>

Bold italic SMALL CAPS

Comic Sans LETTER SPACING

Overline Arial

Font Family Name



- Font family name specifies one or several system font names
 - For example, "Arial" and "Helvetica" are font families

```
Arial
Times
```

Arial

Times

```
p.ar {
  font-family: Arial, Helvetica;
}
p.tim {
  font-family: "Times New Roman";
}
```

- White-space in the font name must be surrounded by quotes
- When the first font is missing, the next is loaded

Using External Fonts: @Font-face



Specifies a custom font from external file / URL

```
@font-face {
  font-family: "Open Sans";
  src: url("/fonts/opensans.woff") format("woff");
}
```

```
Open Sans Demo
```

Open Sans Demo

See <u>fonts.google.com</u> for free open Web fonts

Generic Name



- <generic-name> a broad class of similar fonts used in a prioritized list of fonts
 - serif all characters have stroke endings
 - sans-serif no character has stroke endings
 - monospace all characters have the same width
 - cursive handwritten fonts
 - fantasy decorative fonts

Serif

Sans-serif

Monospace

Cursive

Fantasy

Font Size

- font-size defines the text size
 - px / pt values (e. g. 18px / 24pt)
 - \blacksquare 1px == 0.75pt == 1/96 inch
 - em values relative to the original size, multiplied by a scale factor

```
font-size: 1.2em;
```

rem values – relative to the HTML root size (the <html> element)

```
font-size: 1.5rem;
```

Parent container: 18px Font-size: 1.2em = 21.6pxFont-size: 1.2em = 25.92px Font-size: 1.2em =31.104px

font-size: 16px

font-size: 1.5 rem == 24 px

Font Weight: Thin / Normal / Bold

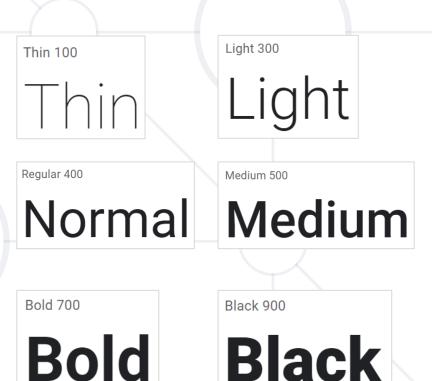


- font-weight defines how weight is the font
 - Thin, normal, bold, or value [100 ... 900]

3 7	-	1	-	
	Or	mal	RΛ	
IN	$\mathbf{O}\mathbf{I}$	mal	DU	IU

Value	Name	
100	thin	
300	light	
400	normal	
700	bold	

font-wei	ght:	thin;
font-wei	ght:	300;
font-wei	ght:	400;
font-wei	ght:	bold;



Font Style: Normal / Italic



- font-style defines how much the text is slanted
 - normal the text is not slanted

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

Normal font style

italic — the letters are slightly slanted

```
font-style: italic;
```

Italic font style

oblique – the letters are more slanted than italic

```
font-style: oblique;
```

Oblique font style

Text Align: Left / Right / Center / Justify



- text-align
 - Defines the horizontal alignment

text-align: left;

Lorem ipsum

Lorem ipsum is meaningless text used to demonstrate the graphic elements of a document.

text-align: center;

Lorem ipsum

Lorem ipsum is meaningless text used to demonstrate the graphic elements of a document.

text-align: right;

Lorem ipsum

Lorem ipsum is meaningless text used to demonstrate the graphic elements of a document.

text-align: justify;

Lorem ipsum

Lorem ipsum is meaningless text used to demonstrate the graphic elements of a document.

Line Height



- line-height defines the height of a single line of text
 - Measures: unitless / pt / px / em / rem

```
<article>
  <h1>Lorem ipsum</h1>
    Lorem ipsum is
meaningless text used to
demonstrate the graphic
elements of a document.
</article>
```

```
p { line-height: 2.1; }
```

Lorem ipsum

Lorem ipsum is meaningless text

used to demonstrate the graphic

elements of a document

Letter Spacing



- letter-spacing defines the spacing between the characters of a block of text
 - normal the spacing between the characters is normal

letter-spacing: normal;

A paragraph with normal spacing

Using pixels

letter-spacing: 2px;



Text Decoration



- text-decoration defines how the text content of the element is decorated: overline, underline, linethrough
 - none removes any text decoration

```
text-decoration: none;
```

line-through - draws a line across the text

```
text-decoration: line-through;
```



Text Indent



text-indent - defines the indentation of the element's first

line of text

The text is not indented

text-indent: 0;

The text is indented

text-indent: 40px;

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at pulvinar felis blandit. Vestibulum volutpat tellus diam, consequat gravida libero rhoncus ut. Maecenas imperdiet felis nisi, fringilla luctus felis hendrerit sit amet.

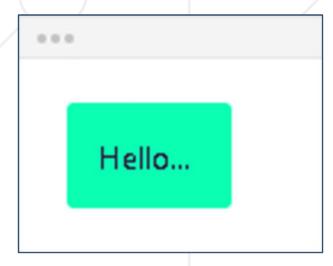
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Text Overflow



- text-overflow defines how the hidden text content behaves if it's overflowing
 - ellipsis the overflowing content is replaced by . . .

```
text-overflow: clip;
```



Text Transform



- text-transform specifies how to capitalize text
 - capitalize turns the first letter of each word into a capital letter

```
text-transform: capitalize;
```

It Is A Long Established
Fact That A Reader Will Be
Distracted.

uppercase - turns all characters to uppercase

```
text-transform: uppercase;
```

IT IS A LONG
ESTABLISHED FACT
THAT A READER WILL
BE DISTRACTED.

lowercase - turns all characters to lowercase

```
text-transform: lowercase;
```

it is a long established fact that a reader will be distracted.

Word Break



- word-break defines how words should break when reaching the end of line
 - normal words with no space will NOT break

```
word-break: normal;

Thequickbrownfoxjumpsoverthelazydog
```

break-all - words with no space will break as soon as they
 reach the end of a line

```
word-break: break-all;
```

Thequickbrownfoxjumpsoverthe lazydog

Text Shadow



- Text-shadow defines the shadow of the text content
 - None the text content has no shadow

```
p {
    text-shadow: none;
}
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at pulvinar felis blandit. Vestibulum volutpat tellus diam, consequat gravida libero rhoncus ut. Maecenas imperdiet felis nisi, fringilla luctus felis hendrerit sit amet.

Text-shadow: <horizontal> <vertical> <blur> <color>

```
p {
    text-shadow: 2px 4px 10px red;
}
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at pulvinar felis blandit. Vestibulum volutpat tellus diam, consequat gravida libero rhoncus ut. Maecenas imperdiet felis nisi, fringilla luctus felis hendrerit sit amet.

Text Color



■ 140+ predefined color names (e. g. green, red, blue, coral, ...)

```
color: red;
```

Lorem ipsum

Hexadecimal color code in format #RGB or #RRGGBB:

```
color: #05ffb0;
```

Lorem ipsum

Decimal rgb() color codes (red, green, blue values):

```
color: rgb(125, 125, 255);
```

Lorem ipsum

Decimal rgba() color codes (red, green, blue, alpha opacity):

```
color: rgba(255, 0, 0, 0.5);
```

Lorem ipsum

Background Color



- background-color defines the color of the background
 - transparent

```
background-color: transparent;
```

- Specify the background color with:
 - HEX
 - RGB/RGBA
 - Named color

```
background-color: navy;
```

Mouse Cursor



Sets the mouse cursor when hovering the element:

some text cursor: pointer; cursor: move; move cursor: none; no cursor В cursor: col-resize;

Outline



Outline

- Outline-width defines the width of the element's outlines
- Outline-style defines the style of the element's outlines
- Outline-color defines the color of the element's outlines

```
p {
   outline: 4px dotted red;
}
```



Font Awesome



- Font Awesome provides vector icons, emojis, etc.
 - Add the following link inside <head>



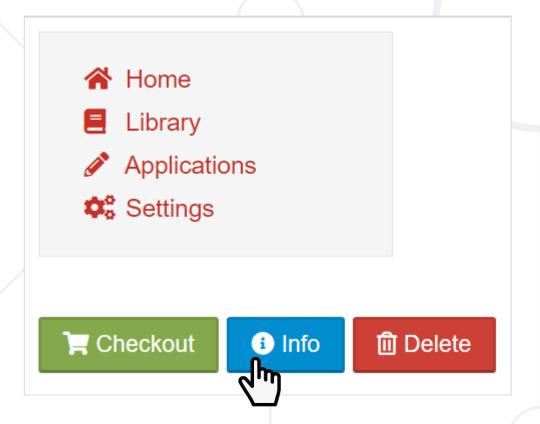


- Or import Font Awesome in the CSS file
- Choose an icon \rightarrow copy the $\langle i \rangle$ element \rightarrow paste it in your HTML file

Font Awesome Icons – Exercise



Using HTML, CSS and Font Awesome icons create a navigation menu and buttons like the following:



Hints:

```
<i class="fas fa-home"></i>
<i class="fas fa-book"></i>
<i class="fas fa-pencil-alt"></i>
<i class="fas fa-cogs"></i>
<i class="fas fa-shopping-cart"></i>
<i class="fas fa-info-circle"></i>
<i class="fas fa-info-circle"></i>
<i class="far fa-trash-alt"></i>
```

Summary



- What is Typography?
- The principles of readability
- CSS properties: font-family, font-size, font-style, color, background
- Font Awesome Icons





Questions?

















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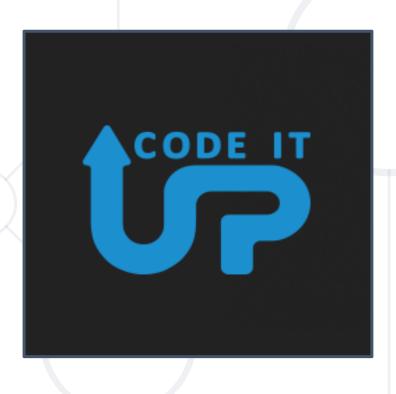






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