CSS & TYPOGRAPHY

CSS Text Properties, Fonts, Font Properties

SoftUni Team

Technical Trainers

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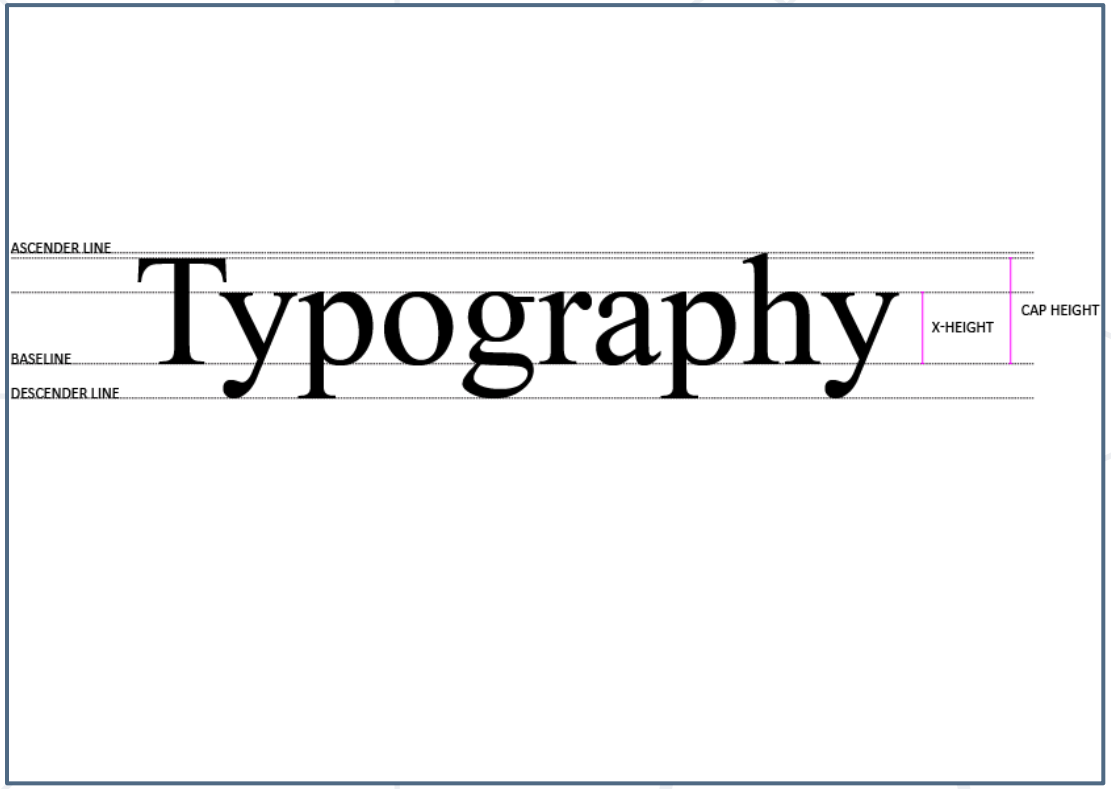
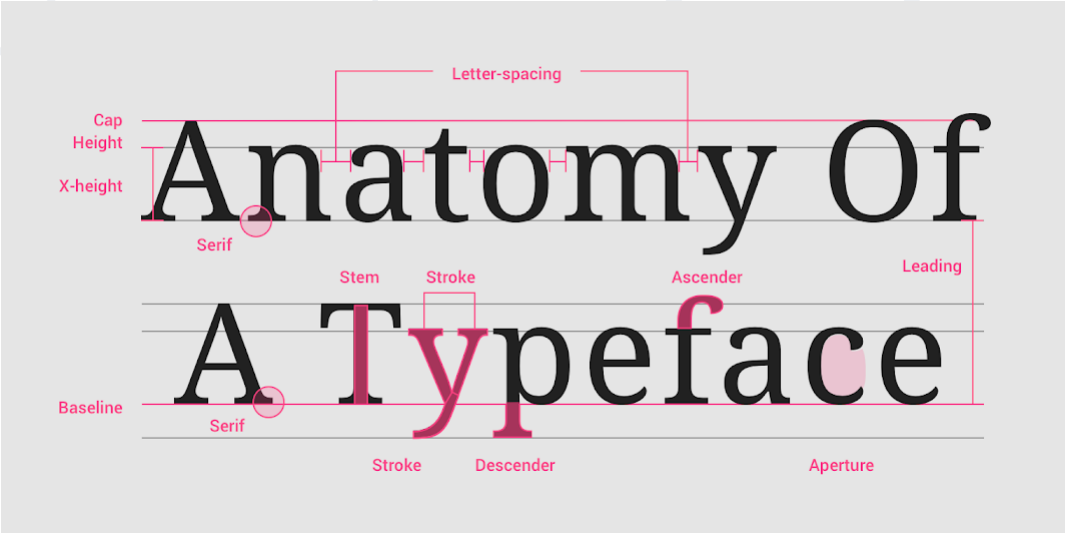
#html-css



CSS Font Properties

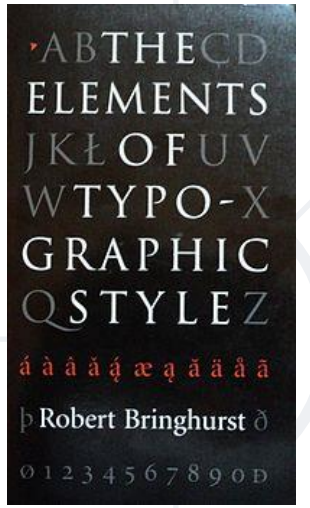
What is Typography?

- Typography is the art and technique of arranging type to make written language
  - **Legible**, **readable** and **appealing**
- Typography is the visual component of the written word

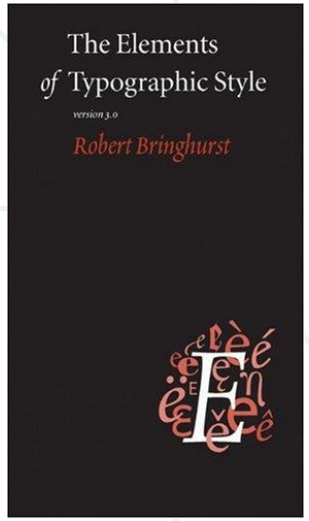


Books

- ***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

- User-Friendly Headers
- 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

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**)

Font Family Name

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

```
<p class=ar>Arial</p>
<p class=tim>Times</p>
```

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

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- Specifies a **custom font** from external file / URL

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

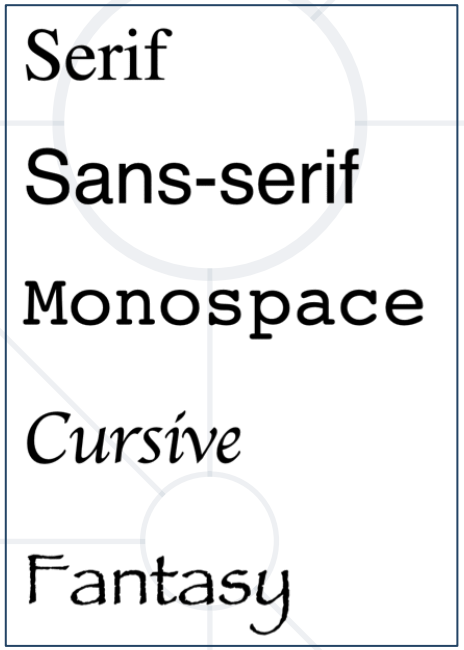
```
<p style="font-family: Open Sans">Open Sans Demo</p>
```

Open Sans Demo

- See fonts.google.com 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



Font Size

- `font-size` – defines the text size
  - `px` / `pt` values (e. g. **18px** / **24pt**)
    - 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;
```

font-size: 16px

font-size: 1.5rem == 24px

Font Weight: Thin / Normal / Bold

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

Value	Name
100	thin
300	light
400	normal
700	bold

```
font-weight: thin;
```

```
font-weight: 300;
```

```
font-weight: 400;
```

```
font-weight: 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

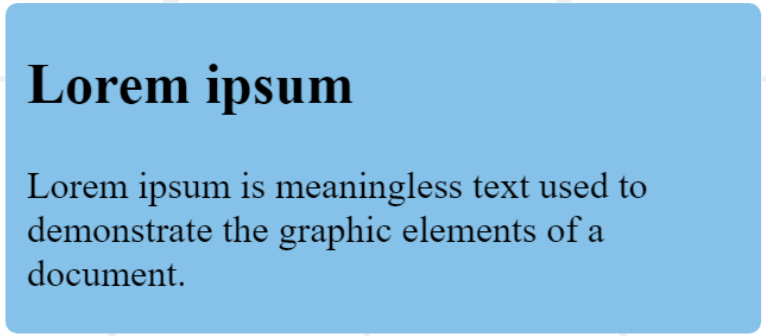
```
font-style: oblique;
```

Oblique font style

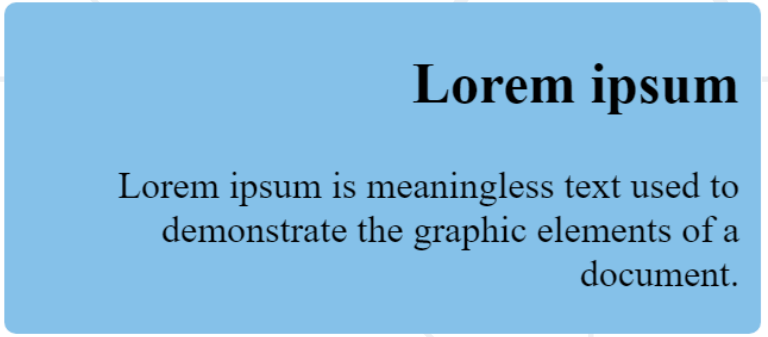
Text Align: Left / Right / Center / Justify

- `text-align`
  - Defines the **horizontal alignment**

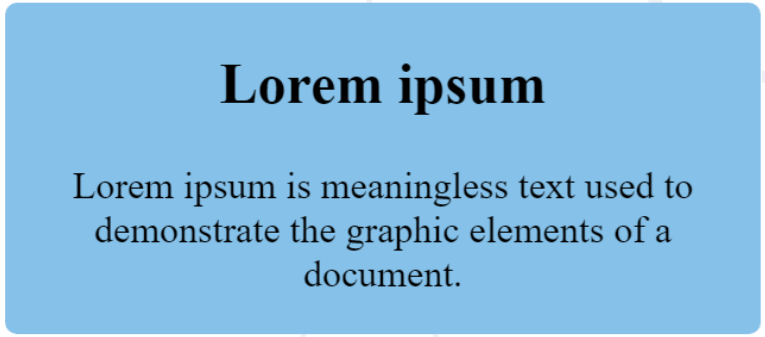
```
text-align: left;
```



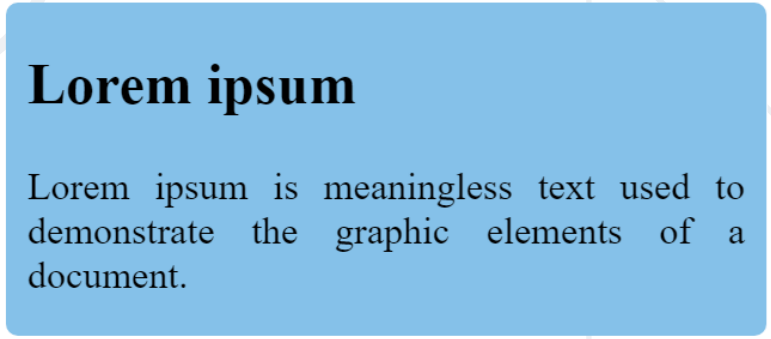

```
text-align: right;
```




```
text-align: center;
```




```
text-align: justify;
```

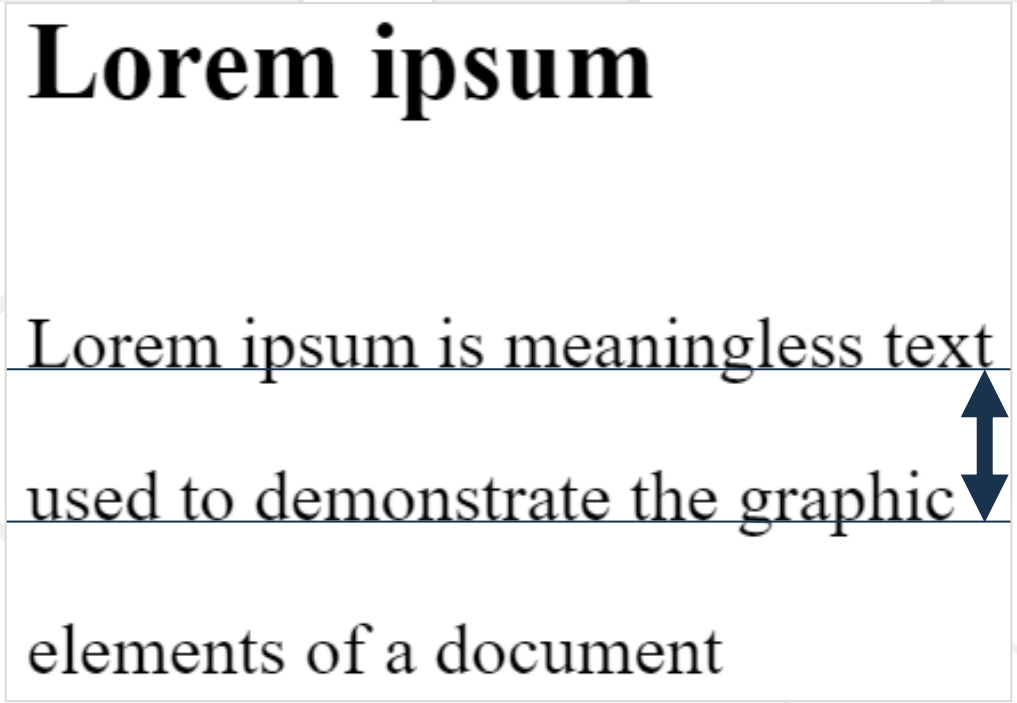


Line Height

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

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

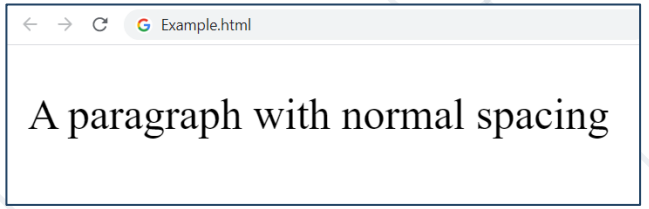
```
p { line-height: 2.1; }
```



Letter Spacing

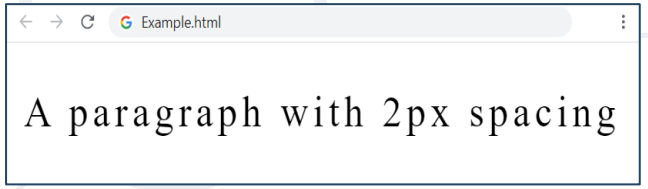
- `letter-spacing` - defines the spacing between the characters of a block of text
  - `normal` - the spacing between the characters is normal

```
letter-spacing: normal;
```



  - Using `pixels`

```
letter-spacing: 2px;
```



Text Decoration

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

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

  - `line-through` - draws a line across the text

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

~~text~~

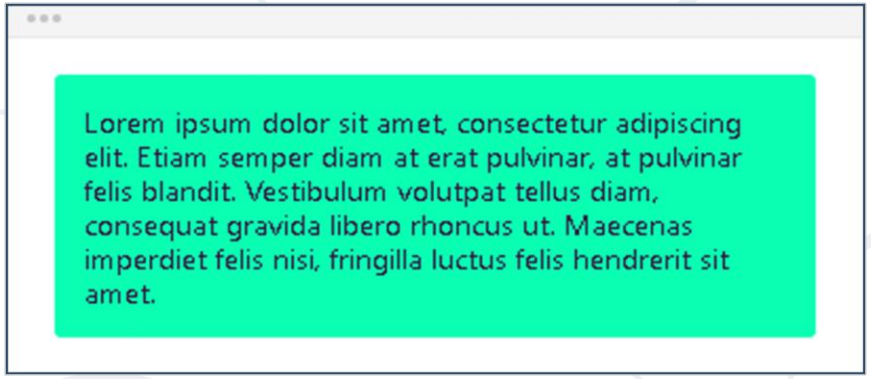
Text Indent

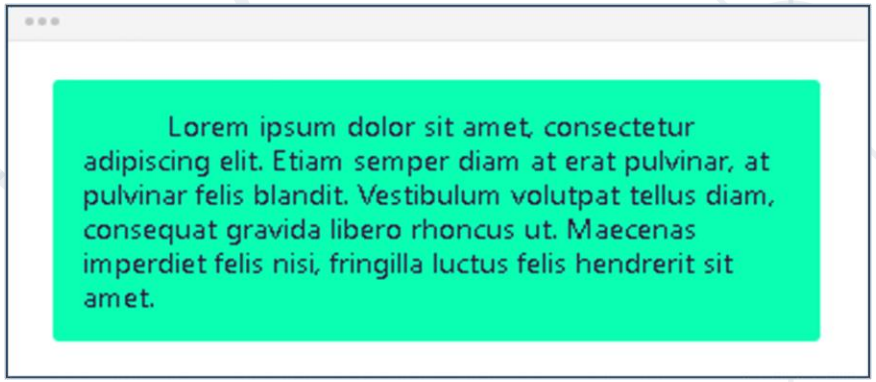
- `text-indent` - defines the indentation of the element's first line of text
  - The text is not indented

```
text-indent: 0;
```

  - The text is indented

```
text-indent: 40px;
```

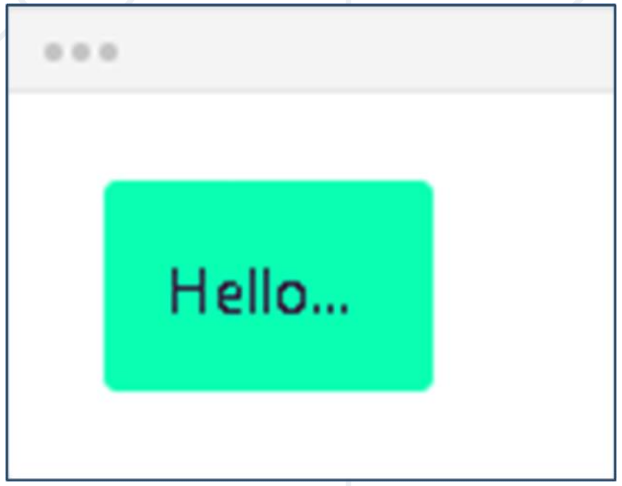




Text Overflow

- `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

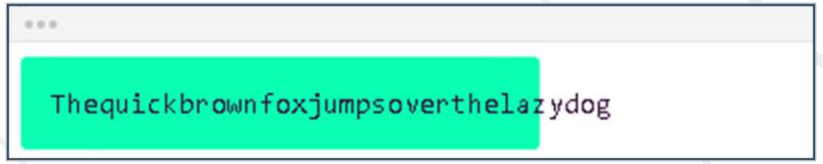
```
text-transform: lowercase;
```

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

Word Break

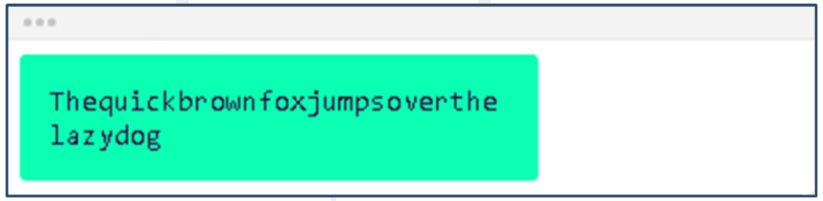
- `word-break` - defines how words should break when reaching the end of line
  - `normal` - words with no space will **NOT** break

```
word-break: normal;
```



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

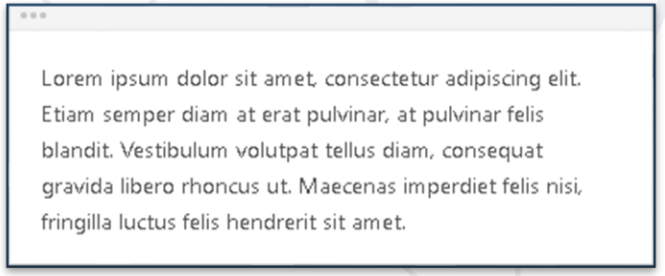
```
word-break: break-all;
```



Text Shadow

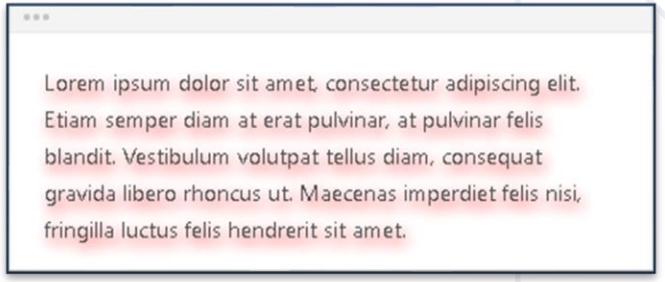
- `Text-shadow` - defines the shadow of the text content
  - None - the text content has **no shadow**

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



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

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



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:

```
cursor: pointer;
```

some text

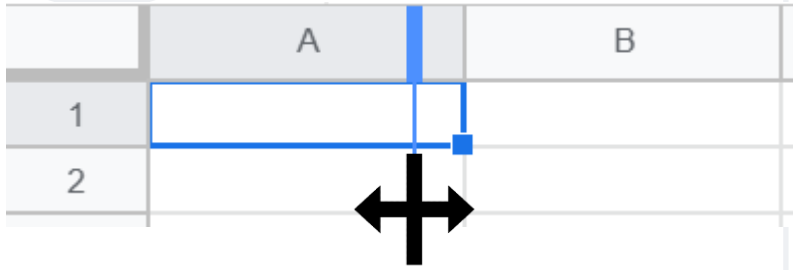
```
cursor: move;
```

move

```
cursor: none;
```

no cursor

```
cursor: col-resize;
```



Outline

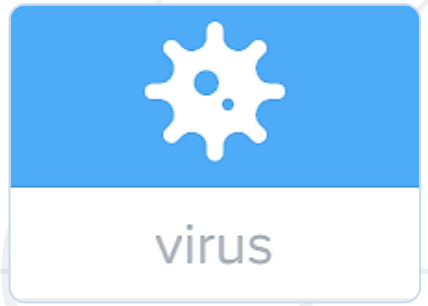
- **Outline**
  - Outline-width - defines the **width** of the element's outlines
  - Outline-style - defines the **style** of the element's outlines
  - Outline-color - defines the **color** of the element's outlines

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

Font Awesome Icons

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 → copy the **<i>** element → paste it in your HTML file

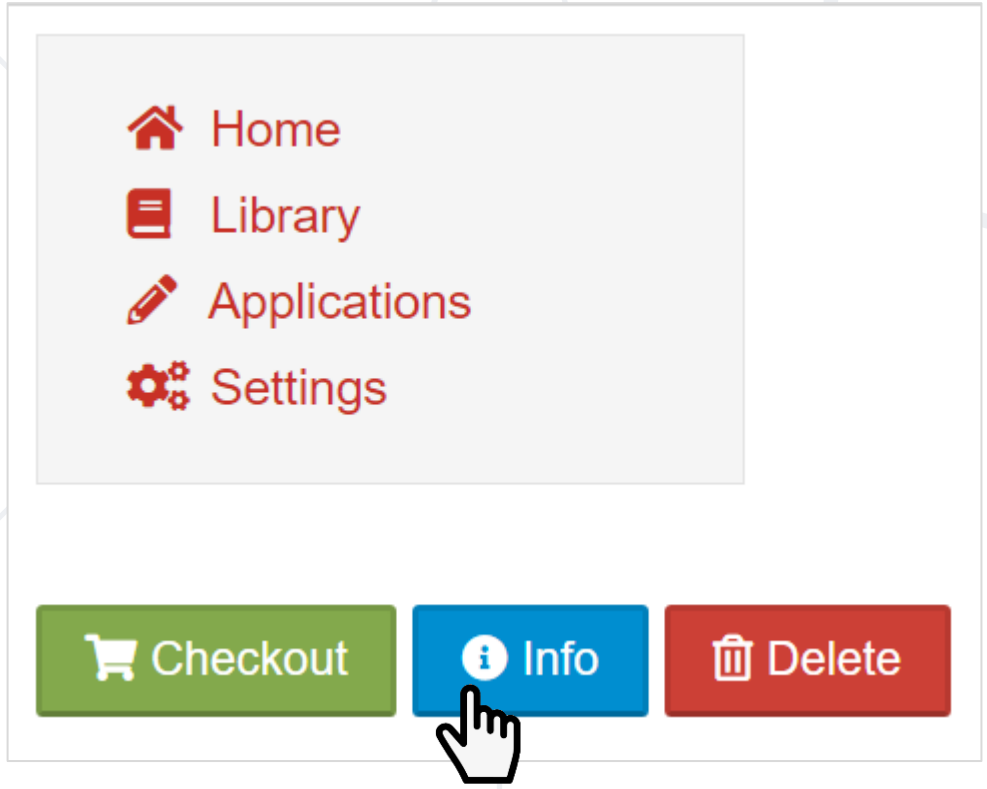



```
<head>
  <link rel="stylesheet"
href="https://use.fontawesome.com/releases/v5.10.2/css/all.css">
</head>
<body>
  <a href="#"><i class="fa fa-home fa-fw"></i>Home</a>
</body>
```

```
@import 'https://use.fontawesome.com/releases/v5.10.2/css/all.css';
```

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="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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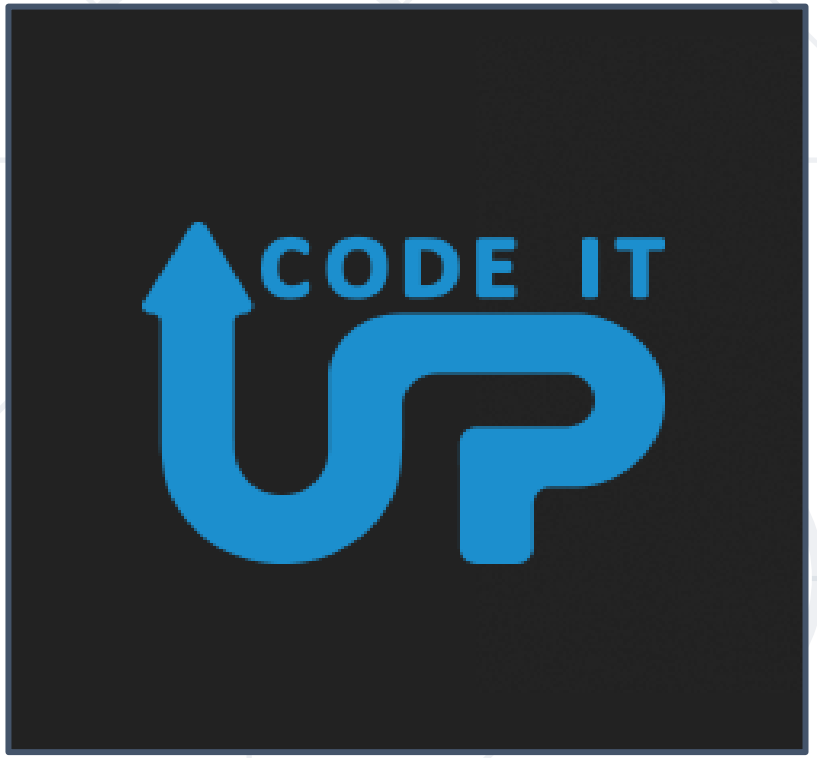

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