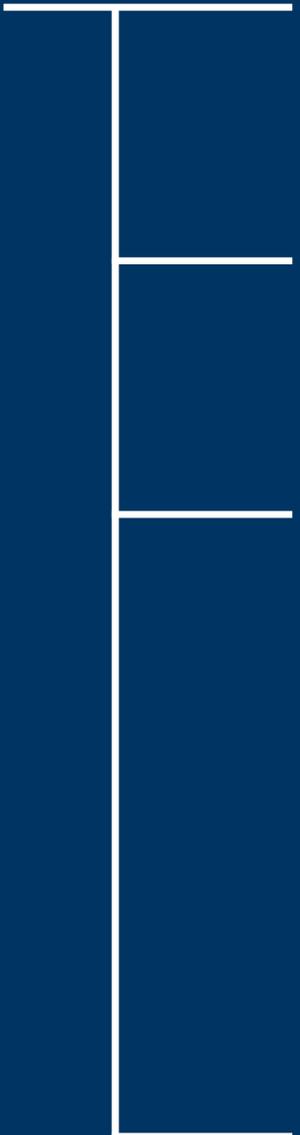


CSS

Cascading Style Sheets

360



index.html



stylesheet.css



images



boris.jpg



project-one



casestudy.pdf

# Types of CSS

External

Internal

Inline

## External CSS

An external style sheet is a text document with a .css extension that links to your HTML page from the <head> element. This allows all of your webpages to share the same style sheet.

```
<head>  
<link rel="stylesheet" type="text/css"  
href="stylesheet.css">  
</head>
```

## Internal CSS

Embedded styles are found in the <head> of your HTML document. Embedded styles only apply to that one page.

```
<head>
<style type="text/css">
body {
font-family: arial;
}
</style>
</head>
```

## Inline CSS

Inline styles are nestled in with the HTML syntax using a style attribute. Inline styles are used to override external style sheets and only apply to that one element.

```
<p>The quick <style="color: red">red</style>fox  
jumped over the six lazy <style="color:  
brown">brown</style>dogs.</p>
```

## Selectors and Declarations

A CSS rule contains two parts: a **selector** and a **declaration**.

```
h1 {  
font-family: serif;  
}
```

**Selectors** indicate which element the rule applies to.

```
h1 {  
font-family: serif;  
}
```

**Declarations** indicate how the elements selected are to be styled.

They are made up of two parts: **property** and **value**. Properties indicate what you want to change. Values specify the settings you want for the property.

```
h1 {  
font-family: serif;  
}
```

You can specify many declarations for each selector, just separate them by a semicolon.

```
h1 {  
  font-family: serif;  
  font-size: 20px;  
  color: pink;  
}
```

There lots of properties available in css. These are some of the most frequently used:

align	font-size	src
background-color	font-style	title
background-image	font-weight	text-align
border	height	text-decoration
cellpadding	href	text-indent
cellspacing	letter-spacing	text-transform
color	margin	white-space
float	name	width
font	padding	word-spacing
font-family	rel	

## CSS Selectors

**Universal** `*{ }`

Targets all elements on the same page

**Text** `h1, h2, h3 { }`

Targets all the `<h1>` `<h2>` `<h3>` elements

**Child** `li>a { }`

Targets any `<a>` elements that are children of an `<li>` element (but not other `<a>` elements in the page)

**Descendent** `p a { }`

Targets any `<a>` elements in the `<p>` element, even if it is not a direct child)

## Child `div>p { }`

```
<!DOCTYPE html>
<html>
<head>
<style>
div > p {
  background-color: yellow;
}
</style>
</head>
<body>

<h1>Welcome to My Homepage</h1>

<div>
  <h2>My name is Donald</h2>
  <p>I live in Duckburg.</p>
</div>

<div>
  <span><p>I will not be styled.</p>
</span>
</div>

<p>My best friend is Mickey.</p>

</body>
</html>
```

# Welcome to My Homepage

## My name is Donald

I live in Duckburg.

I will not be styled.

My best friend is Mickey.

## Descendent `div p { }`

```
<!DOCTYPE html>
<html>
<head>
<style>
div p {
  background-color: yellow;
}
</style>
</head>
<body>

<h1>Welcome to My Homepage</h1>

<div>
  <h2>My name is Donald</h2>
  <p>I live in Duckburg.</p>
</div>

<div>
  <span><p>I will not be styled.</p>
</span>
</div>

<p>My best friend is Mickey.</p>

</body>
</html>
```

# Welcome to My Homepage

## My name is Donald

I live in Duckburg.

I will not be styled.

My best friend is Mickey.

## Naming Elements with an ID or Class

To have more control over your CSS you can name your HTML elements with an ID or Class. Identifiers (ID) are unique names given to an element. A class can be used to name more than one element.

Name your `<div>` with an ID or class within the opening tag of the element:

```
<div id="sidebar"> </div>
```

```
<div class="left-column"> </div>
```

In your CSS document, ID selectors begin with a hashtag, and class selectors begin with a period:

### ID

```
html <div id="sidebar"> </div>
```

```
css #sidebar { float: left; }
```

### Class

```
html <div class="left-column"> </div>
```

```
css .left-column { float: left; }
```

## Color

**RGB**      `h1 { color: rgb(140,200,238); }`

**RGBa**     `h1 { color: rgba(140,200,238,0.5); }`

**Color**    `h1 { color: red; }`

**HEX**      `h1 { color: #ff3344; }`

## font-family

The font-family property allows you to specify a typeface.

```
p { font-family: Georgia, Times, serif; }
```

You can specify a list of fonts separated by commas so that if the user does not have your first choice typeface installed, the browser can try to use an alternative font from the list.

## Google Fonts

For more type options, go to [fonts.google.com](https://fonts.google.com).

Click on the font family you wish to use. Then click on Select This Font. A panel should popup, copy/paste the first line of code into the `<head>` of your HTML document. It should look like this:

```
<link href="https://fonts.googleapis.com/  
css?family=Roboto" rel="stylesheet">
```

Then copy the provided CSS from the same Google popup panel and paste it into your external CSS document. This will be your font-family for whatever HTML element you wish to style. Here is an example:

```
body { font-family: 'Roboto', sans-serif;}
```

## font-size

There are several ways to specify the size of a font.

The default font-size of the browser or `<html>` element is **16px**.

**pixels**                    **px** this is an absolute unit. the rest are relative

**percentages**            **%** relative to parent element

**ems**                        **em** relative to the font-size of the element

**rems**                      **rem** relative to font-size of the root element,  
a.k.a the `<html>` element

```
<!DOCTYPE html>
<html>
<head>
<style>

html {font-size: 16px;}

h1 {font-size: 16px;}

h2 {font-size: 100%;}

h3 {font-size: 1em;}

h4 {font-size: 1rem;}

div {
  font-size: 32px;
  border: 1px solid black;
}

</style>
</head>
<body>

<h1>This heading is 16px.</h1>
<h2>This heading is 100%.</h2>
<h3>This heading is 1em.</h3>
<h4>This heading is 1rem.</h4>
<div>
The font-size of the div element is set to 32px.
<h3>This heading is 1em which is multiplied by the size of this div.</h3>
<h4>This heading is 1rem which is multiplied by the size of the html element and
not this div.</h4>
</div>

</body>
</html>
```

**This heading is 16px.**

**This heading is 100%.**

**This heading is 1em.**

**This heading is 1rem.**

The font-size of the div element is set to 32px.

**This heading is 1em which is multiplied by the size of  
this div.**

**This heading is 1rem which is multiplied by the size of the html element and not this div.**

## Formatting Link States

normal, unvisited link

link the user has visited

link when the user mouses over it

link the moment it is clicked

```
a:link { color: red; }
```

```
a:visited { color: orange; }
```

```
a:hover { color:yellow; }
```

```
a:active { color: purple; }
```

Note: Must be in this order!

## Text Properties

color

font-family

font-size

font-weight

font-style

text-transform

text-decoration

text-align

text-indent

text-shadow

line-height

letter-spacing

word-spacing

vertical-align

## Box Model

When setting heights and widths for an element in CSS you must take into account accurate measurements for all your boxes' properties (i.e. padding, margins, etc).



```
.column {  
  width: 300px;  
  padding: 10px;  
  margin: 20px;  
  border: 5px solid green;  
}
```

**Total Width of Box=**  
**370px**

## Box Dimensions

When using **percentages**, the size of the box is relative to the size of the browser window, or if the box is encased within another box, it is a percentage of the size of the containing box.

When using **ems**, the size of the box is based on the the size of the text that it sits inside of.

```
<!DOCTYPE html>
<html>
<head>
<style>

#yellowbox {
height: 300px;
width: 50%;
background-color: yellow;
}

#bluebox {
height: 200px;
width: 50%;
background-color: powderblue;
}

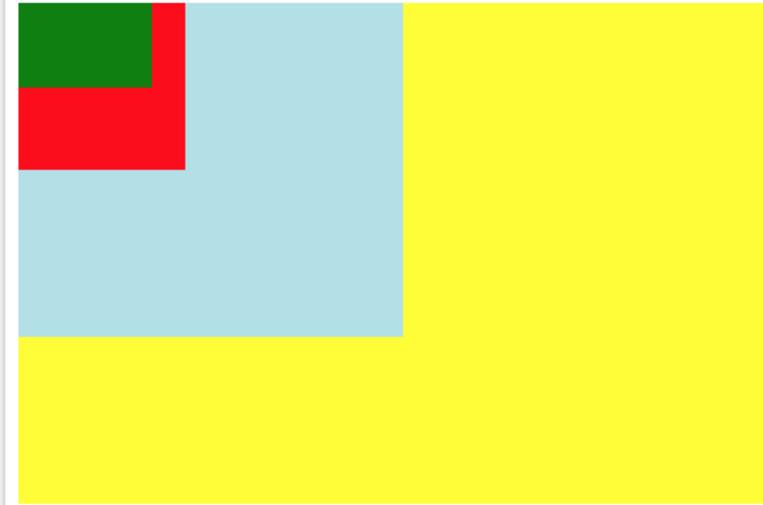
#redbox {
font-size: 20px;
height: 100px;
width: 5em;
background-color: red;
}

#greenbox {
height: 50px;
width: 5rem;
background-color: green;
}

</style>
</head>
<body>

<div id="yellowbox">
<div id="bluebox">
  <div id="redbox">
    <div id="greenbox">
    </div>
  </div>
</div>
</div>

</body>
</html>
```



## border properties

`border`

`border-top`

`border-right`

`border-bottom`

`border-left`

`border-size`

`border-style`

`border-height`

`border-width`

`border-style` must be defined for the border to appear:

<code>dotted</code>	<code>ridge</code>
<code>dashed</code>	<code>inset</code>
<code>solid</code>	<code>outset</code>
<code>double</code>	<code>none</code>
<code>groove</code>	<code>hidden</code>

You can also use shorthand for the different properties.

```
border: 5px solid red;
```

## margin and padding properties

margin	padding
margin-top	padding-top
margin-right	padding-right
margin-bottom	padding-bottom
margin-left	padding-left

You can also use shorthand for the different properties.

```
margin: 25px 50px 75px 100px;
```