



HTML & CSS

TechTeam | Fall 2016



What are HTML and CSS?

HyperText Markup Language: used to create web pages and web applications

Cascading Style Sheets: describes presentation of the HTML document

Two of the cornerstones technologies for the World Wide Web (along with JavaScript)

*Thanks, Wikipedia

HTML Elements

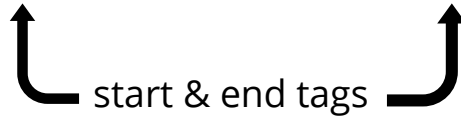
HTML documents are made up of nested, hierarchical HTML elements

```
<!DOCTYPE html>
<html>
  <head>
    <title>This is a title</title>
  </head>
  <body>
    <p>Hello world!</p>
  </body>
</html>
```

HTML Tags

HTML elements are marked by the use of tags: head, body, p, img, etc.

`<p>Hello world!</p>`



HTML Attributes

Start tags can include attributes which include other information

```
<p style="color: blue;">Hello world!</p>
```



attribute

Important HTML Elements

Headers: `<h1></h1>` `<h2></h2>` `<h3></h3>`

Paragraphs & Other Text: `<p></p>` `` `<text></text>`

Link: `A link to Google`

Image: ``

Local Hosting

Used to access network services to display a local HTML file

In terminal:

```
$ python -m SimpleHTTPServer 8000
```

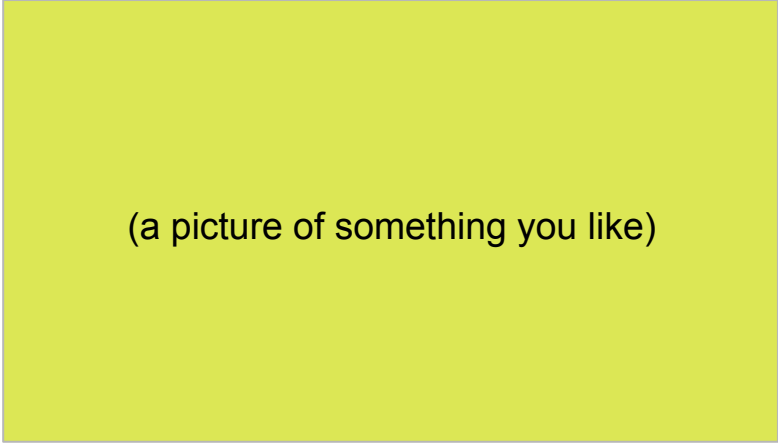
In web browser:

```
http://localhost:8000/doc-name.html
```

Assignment: Make This!

Name

[Hometown](#) (linked to your hometown's website)



(a picture of something you like)

CSS Basics

Selectors can apply to all elements of a specific type, elements specified by attribute, or elements through inheritance

```
#main {  
  margin: 20px;  
}
```



Id: used for styling a single element, demarcated with a #

```
h1 {  
  color: pink;  
}
```

```
.name {  
  font-size: 50pt;  
}
```



Class: used for consistently styling multiple elements, demarcated with a .

Assignment: Add CSS

Update your last document to make it cool!

```
<p style="color: blue;">Hello world!</p>
```

or

```
<style> #world { color: blue; } </style>  
<p id="world">Hello world!</p>
```

Linking Style Sheets

It is often neater and cleaner to create external style sheets that can be linked to in many documents

```
<link href="path/to/file.css" rel="stylesheet">
```

Assignment: Create a Style Sheet

Move your CSS to the external file and link it!

Intro to HTML & CSS Resource

<https://www.khanacademy.org/computing/computer-programming/html-css>