

COMP 1017

Day 11

Introduction to CSS

CSS

What is CSS?

CSS, or Cascading Style Sheets, tells your browser how everything should look.

It's a set of rules, which you write, for
presenting HTML elements.

Because HTML was never designed for formatting, CSS can:

→ lay out the content

→ style the content

The best part is that **one** stylesheet can control the look of all of the pages in your website.

This can save you a lot of work and go a long way towards making your site look and feel consistent.

CSS Rules

So, a stylesheet has a bunch of **rules** that tell a browser how to present your HTML.

What do these rules look like?

selector

property

value



p { color: red; }

A **selector** is the HTML element that you want to style.

A **property** is the type of style you want to change.

A **value** is what you want to set that property to.

A **declaration** is a property and a value pair.

You can have multiple declarations in one rule.

```
p {  
    color: red;  
    font-size:  
12px;  
}
```

Syntax

Okay, so what about **syntax**?

Just like HTML elements need to be inside < angle brackets >, CSS declarations need to be inside { curly braces }.

Properties and values must be separated by a colon (:).

All declarations must end with a semicolon (;).

If you do not end your declarations with a semicolon, it would be like not closing an HTML tag.

Hint: this is one (1) bad.

Including CSS

How do we include CSS in our website?

There are three ways:

1. linking
2. embedding
3. inline styles*

* don't actually do this.

Linking to CSS

Linking to a CSS file* is best practice.

* AKA an external stylesheet

To do it, use the following tag in your `<head>`:

```
<link rel="stylesheet" href="css/styles.css">
```

Your `<head>` should look something like the following ...

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title>My test page</title>
    <!-- CSS style sheet -->
    <link rel="stylesheet" type="text/css"
      href="css/styles.css">
    <!-- End of CSS files -->
  </head>
```


Embedding CSS

This is the next-best option.

Alright, so that's how you link to an external stylesheet.

What about **embedding**?

Using a **special tag**, you can totally write CSS in your `<head>`.

```
<style>
```

```
  p {
```

```
    color: red;
```

```
  }
```

```
</style>
```

Altogether, this would make your
<head> look something like ...

```
<!DOCTYPE html>

<html>

  <head>

    <meta charset="utf-8">

    <title>My test page</title>

    <style>

      p {

        color: red;

      }

    </style>

  </head>
```

Inline Styles

Not Recommended

You want **validation errors**? Because
this is how you get validation errors!


```
<p style="color:red;">Don't do this.</p>
```

The reason that we don't do this anymore is that it's really hard to edit everything line-by-line.

This means that your website won't be maintainable.

The Cascade

The victor is always the last rule standing.

We figured out what 'stylesheets' means; what about 'cascading'?

This means that if you have **multiple styles** applied to an element, the **last rule applied** will win.