

HTML and CSS

Our Goals

- History of the web and how it works
- Introduction to HTML
 - Understanding Structure
 - Learning about markup
 - Tags and elements
- Introduction to CSS
 - What CSS does
 - How CSS works
 - Rules, properties and values

History of the web

- J.C.R. Licklider - "The Galactic Network"
- ARPANet for the US Government
- Vint Cerf and Bob Kahn developed TCP/IP in 1974
- Then there was Tim Berners-Lee, who made the WWW in 1990
 - Here is the [first website](#)

History of the web

- Evolution
- Infographic

How the web works

1. You connect to the web through an Internet Service Provider (**ISP**)
2. You type in a domain name (or web address)
3. Your computer contacts a network of servers called the Domain Name System (**DNS**), they give back an IP address
4. This **IP address** allows us to contact the right web server
5. The right web server then sends the requested file back to your web browser

**Those files are what we
care about today**

Our body of work

- **HTML** - The Bones - Content
- **CSS** - The Skin - Style
- **JS** - The Brain - Functionality

HTML

Some links

- [HTML5 Specification](#)
- [HTML5.1 Working Draft](#)
- [Github Documentation](#)
- [HTML on MDN](#)
- [Dive into HTML5](#)

But, wait, why do we need it?



HTML

- Stands for Hyper Text Markup Language
- It is a system for defining or "tagging" pieces of text
- Currently at version 5 (October, 2014)

```
<tagname> This isn't real </tagname>
```

```
<h1> But this is a main heading </h1>
```

```
<p> This is a paragraph </p>
```

What is HTML5?

- It's ***not*** just elements
- It doesn't break anything
- It just works
- It's not going anywhere
- A lot of it is semantics

What is an element?

An element is made up of an:

- Opening and closing tag
- Content
- (Attributes - like "class", "src", etc.)

```
<a href="http://google.com">  
  A link to Google.  
</a>
```

Common Tags

Actual Content

h1 ... h6, p, a, img, button, form

Divides Content

div, article, section, nav, header, footer

That's not it though...

```
<!DOCTYPE html>
<html>
<head>
  <title>My horrible website</title>
</head>

<body>

  <!-- Visible content goes here -->

</body>
</html>
```

Placeholder Text

- [Meet the Ipsums](#)
- [Samuel L. Ipsum](#)
- [Monocle Ipsum](#)
- [Wikipedia](#)
- [Social Good Ipsum](#)
- [56 other ones](#)
- [Clients from Hell](#)

CSS

Some links

- [CSS on MDN](#)
- [Current work on CSS](#)
- [CSS4\(ish\) modules](#)
- [CSS4\(ish\), or CSS2016 Details](#)

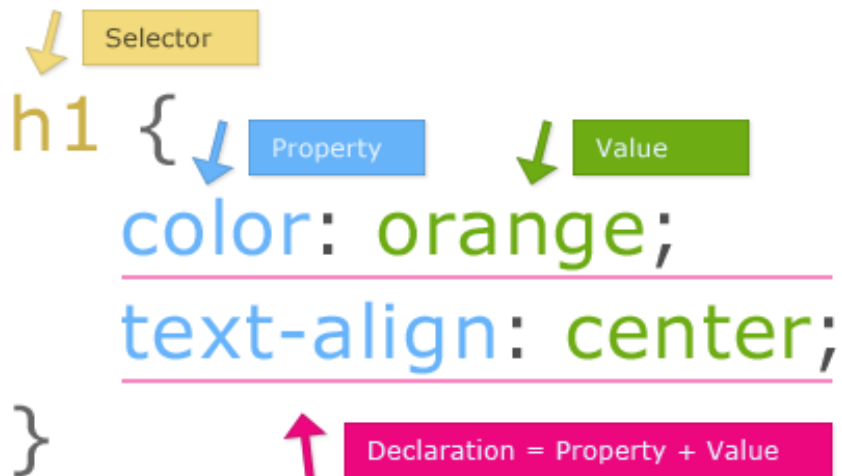
CSS

- Stands for Cascading Style Sheets
- Styles HTML for us
- Currently at Version 3
- Broken into CSS rules

```
selector {  
    property: value;  
    /* This isn't real */  
}  
  
h1 {  
    color: gainsboro;  
}
```

What is a CSS rule?

Anatomy of a CSS Rule



CSS and HTML

```
<h1>
  Hello World
</h1>

<a href="http://www.ga.co">
  A link to GA's website
</a>

<p>
  Random gibberish
</p>

<p>
  More junk
</p>
```

```
h1 {
  font-size: 28px;
}

a {
  color: hotpink;
}

p {
  font-family: "Comic Sans";
}
```

Conventions

- Main HTML file - ***index.html***
- Main CSS file - ***style.css***
- We separate things into different files
- We indent to make it easier to read

CSS Selectors

```
p {}  
  
p.octocat {}  
  
.octocat {}  
  
p#octocat {}  
  
#octocat {}  
  
* {}  
  
div p {}  
  
p, a {}  
  
p:hover {}
```

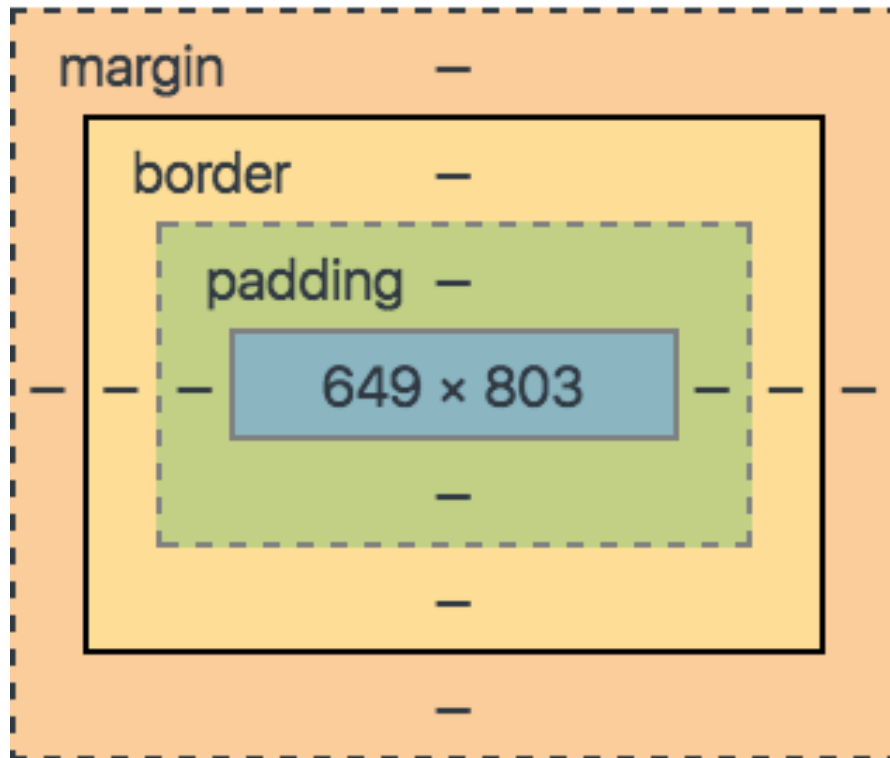
CSS Specificity

- 1 point for an elements name
- 10 points for a selection based on a class
- 50 points for a selection based on an ID

For more:

- [Pop Culture](#)
- [Smashing Magazine](#)
- [CSS Tricks](#)

The Box Model



Floats and Clears

- [CSS Tricks](#)
- [Smashing Magazine](#)

Web Inspiration

- [Awwwards](#)
- [Site Inspire](#)
- [CSS DSGN](#)
- [FWA](#)
- [TypeWolf](#)
- [Web Creme](#)
- [Wow Web](#)
- [One Page Love](#)
- [Nice Portfolio](#)
- [Landbox](#)
- [Mind Sparkle](#)
- [Hoverstates](#)
- [Fourzerofour](#)
- [Codepen](#)

Homework

- Understand: [Separation of Concerns](#)
- Play: [CSS Diner](#)
- Explore: [Learn Layout](#)
- Watch: [DevTools](#)
- Read: [Tutsplus](#)
- Complete: [Brooklyn](#)
- Complete: [Busy Hands](#)
- Complete: [Ecardly](#)