CSS 101

The Pizza to the HTML Party

What is CSS?!

Cascading Style Sheet

CSS

IS:

 A stylesheet language used to describe the presentation of an HTML document.

Rules that style both:

- Content (inside an HTML element) and
- Element (the HTML Element "BOX" itself)
- Important to know
 - CSS selectors will be integral to dealing with JavaScript and HTML

ISN'T:

- Just for making HTML "pretty"
 - Helps make the web accessible
 - Enhances usability
 - Has animations & mathematical components
- Easy
 - Takes Discipline
 - Takes an understanding of Scope
- Hard
 - Adhering to some rules, a few lines of CSS can improve an HTML document drastically!

Languages

- Programming Language Ruby
- **Scripting Language -** JavaScript, Bash
- Query Language SQL
- Markup Language HTML
- Style Language CSS

Basic rule syntax

Style rule syntax

```
selectorlist {
  property: value;
  [more property:value; pairs]
}
```

What CSS Looks Like

Words To Know:

CSS terms you'll hear most often

- Selector
- Property
- Value
- Specificity
- Pseudo
 - Pseudo-Element
 - Pseudo-Classes
- Layout
- Position
- Float
- Grid

Cascading means:

CSS will apply style properties based on the following four factors:

Importance

Author - person who wrote the CSS

User - person looking at page's CSS Settings

Default - browser/user agent's CSS

Source Order

Style declarations are read in order, and where links are placed will change order of style implementation

Specificity

#nav .selected > a:hover

.wrapper .box ul li

Inheritance

Some properties may be passed down to an element's children.

Applying CSS to HTML

Inline

Embedded

```
<style>
  p {
    color: red;
    font-style: bold;
}
</style>
```

External

```
<link rel="stylesheet" src="style.css">
```

- Highest Specificity. Use VERY rarely.

 Used for unique document styles. Not very sustainable for larger projects

- Best use, separates HTML from CSS coding. Allows for multi-document use. Link Order important
- Lives in <head> section

Selectors

Types of Selectors

Element Type color: red; **Pseudo-Element** p::first-line { color: red; } Class .class-name { color: red; Pseudo-class a:visited { color: red; ID #id-name { color: red; **Attribute** a[target=" blank"] { color: red;

Combinators

- Adjacent sibling combinator A + B
- General sibling combinator A ~ B
- Child combinator A > B
- Descendant combinator A B

Examples:

```
.alert .intro { color: red; }
.intro > h1 { color: red; }
p.class-name { color: red; }
```

Properties

Properties

Popular Properties:

- Color
- Background-
- Font-
- List-
- Text-
- Padding
- Border-
- Margin

Hmmm... some of these look familiar...

Interesting Properties:

- Transition
- Animation
- Opacity
- Transform
- Z-index

Property Shorthands

For some properties, multiple values can be set in one line

```
Background (color, image, repeat, position)
     .call-to-action { background: #000 url(assets/smiley.png) no-repeat left top; }
Border (width, style, color)
           border: 6px solid red; }
Font (style, weight, size, height, family)
     #my-page-title { font: italic bold .8em/1.2 Arial, sans-serif; }
Margin & Padding (top right bottom left)
                     padding: 10px 20px 30px 40px; } (top, right, bottom, left)
      .hot-dogs {
                     padding: 10px 40px; }(top-bottom, right-left)
      .hot-dogs {
                     padding: 10px; }(top-right-bottom-left)
       .hot-dogs {
```

Display

What kind of box will be used?

Display Types

.container {

Block - TAKE ALL THE SPACE!

```
.container { display: block; }
Inline - Take the space I need...
.container { display: inline; }
None - @
```

display: none;

Flex - Flexbox Model

```
.container { display: flex; }
Grid - Grid Model
.container { display: grid; }
```

Back To The Box!

Setting any HTML element in the place you want it requires you to modify the element with the following properties:

Height & Width

• This pertains to the content itself

Padding

• The space between the content and the border

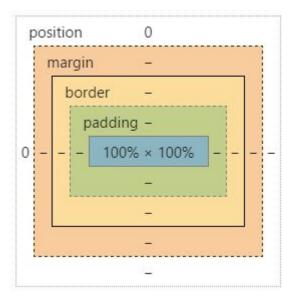
Border

• The line surrounding the element itself

Margin

The space between one element and another

Box Model:



Let's Make A Box!

CSS Layout

It's all about the FLOW...

POSITION - The place a given element should be on a document:

Static to the flow of the document (default position)

To use **Top Right Bottom Left** properties, you set a position:

- Relative to it's default position
- Absolute-ly placed, taken out of the document's flow
- **Fixed** to the viewport, not the document. Stays put.
- Sticky will let your element stay on scroll

Stack & Float The Boxes!