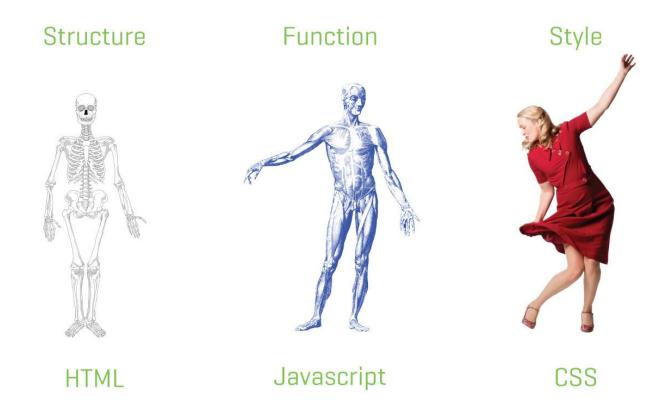
Introduction to CSS

Making things pretty

CSS or Counterfeit Stainless Steel

*actually it's Cascading StyleSheets



CSS

- We use CSS to change the look of our content.
- CSS is used to change page layout, colors, fonts, text-sizes, image size, etc...
- You can do almost anything presentational with CSS.
- You are limited only by your knowledge of CSS.

CSS - Linking CSS to the HTML

Style directly in the HTML file

Link CSS in the HTML file

```
<!DOCTYPE html>

<html>

<head>
    <title>A Basic HTML Template</title>
    link href="styles.css" rel="stylesheet">
</head>
```

The k> tag is used to import the CSS file containing rules applying the styles to the DOM elements.

CSS - Example 1 (using HTML tag)

HTML

```
<h1>My Amazing Blog</h1>
```

CSS

```
h1 {
  font-size: 32px;
}
```

You can target an HTML element directly in CSS by using the tag name.

CSS - Example 2 (using a class)

HTML

```
<h1 class="blog-title">My Amazing Blog</h1>
```

CSS

```
.blog-title {
  font-size: 32px;
}
```

Assign the element an attribute of "class" and provide it with a value. Use that value to target it in the CSS.

CSS - Example 3 (using an id)

HTML

```
<h1 id="blog-title">My Amazing Blog</h1>
```

CSS

```
#blog-title {
  font-size: 32px;
}

/* DON'T DO THIS! USE A CLASS INSTEAD */
```

Assign the element an attribute of "id" and provide it with a value. Use that value to target it in the CSS.

Limitation of ids

- A document can only have one copy of an id.
- An element can only have one id.

```
<u1>
thing 1
thing 1
thing 3
```

Which selector should I use?

Туре	Example	Comment
class	.my-class	
tag	h1	
id	#bacon	

Don't use ids!

Really.

Selectors can be combined

```
    Bingo was his name.
    class="secret">I have super-powers!
    class="loud">
        I eat <span class="bold">bacon</span>
```



```
li {
  color: green;
.secret {
  color: blue;
li.loud {
  text-transform: uppercase;
.loud span {
  font-weight: 700;
```

Specificity

```
What color am I?
```

```
p {
  color: red;
}
.blue {
  color: blue;
}
```



Specificity

Different selectors have different strengths.

- A class beats a tag.
- A combined class+tag beats a class
- An id beats just about everything.



When styling HTML, we should...

- Always use classes.
- **Sometimes** use tags.
- Never use ids.
- Never, ever use ids.



[1-2]

CSS Properties

CSS Properties

CSS properties are used to indicate which styles to apply.

```
.mybox {
  color: #000;
  border: 1px solid red;
  background-color: red;
}
```

- There are many CSS properties. Tons.
- Use this CSS properties reference: <u>CSS Reference (Mozilla)</u>
- VS Code can also autocomplete various properties.

CSS Properties

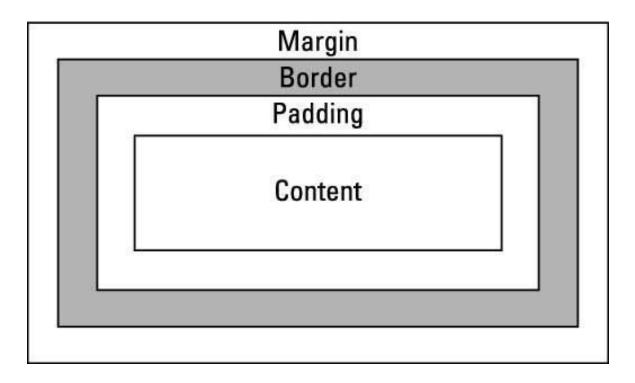
Google is your friend.



- The human brain cannot hold the full library of CSS properties and values.
- The web has many very good resources on CSS.

CSS: The box model

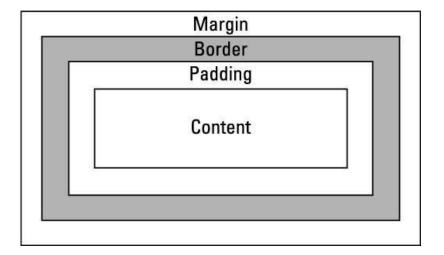
Every HTML element is a box that has four properties.



CSS: The box model

Each side can be set independently or all at once.





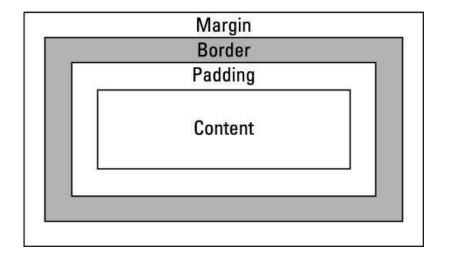
```
.model {
  margin-top: 24px;
  margin-right: 0;
  margin-bottom: 5px;
  margin-left: 10px;
}

/* or */
.model {
  margin: 24px 0 5px 10px;
}

/* TOP RIGHT BOTTOM LEFT */
```

CSS: The box model

The shorthand version is usually the best option.



example		→	Ţ	←
margin: 24px 0 5px 10px;	24px	0рх	5рх	10px
margin: 24px 0 5px;	24px	0рх	5рх	0рх
margin: 24px 0;	24px	Орх	24px	Орх
margin: 24px;	24px	24px	24px	24px

CSS: The box model - Gotcha!

What are the dimensions of the greeting?

We can fix this with the box-sizing property.

```
Howdy!
```

```
.greeting {
  background: gold;
  border: 10px solid black;
  height: 100px;
  margin: 50px;
  width: 100px;
}

* {
  box-sizing: border-box;
}
```

CSS - Positioning



Value	Description
static	
fixed	
relative	
absolute	

When using the `absolute` property, you will need to set the parent's position as well, anything but `static`.



```
.item {
  z-index: 1; /* numerical value */
}
```

- The z-index property specifies the stack order of an element.
- An element with greater stack order is always in front of an element with a lower stack order.
- It only works on positioned elements (absolute, relative, fixed, or sticky).

CSS - Display



```
.item {
  display: inline-block;
}
```

Value	Description
block	
inline	
inline-block	
none	
flex	

CSS - Display flex (basics)

Flexbox is a wonderful way of positioning elements on a webpage.

It does have a bit of a learning curve, but well worth it!

Giving the parent container the property "display: flex", automagically sets all of the items inside the container to be side-by-side.

```
.item {
  display: flex;
  flex-direction: row | row-reverse | column | column-reverse;
  flex-wrap: nowrap | wrap | wrap-reverse;
  justify-content: flex-start | flex-end | center | space-around | space-between;
  align-items: stretch | baseline | center | flex-start | flex-end;
  align-content: stretch | center | flex-start | flex-end | space-around | space-between;
}
```

CSS - Display flex (child properties)

P A Complete Guide to Flexbox

