

Intro to HTML + CSS

School of Visual Concepts
Scott Thiessen, instructor

<http://movingobjects.io/svc/>
scott@movingobjects.io

Week 3

- Review
- Week 2 projects
- Building Website Navigation
 - ID & Class
 - CSS Selectors
- Centered Content Layout
 - Structural HTML Elements

Review

HTML Tags

```
<p>Some content</p>
```

```
<p><em>Some</em> content</p>
```

```
<ul>
```

```
    <li>Item 1</li>
```

```
    <li>Item 2</li>
```

```
</ul>
```

HTML Tags

`<h1>`

`<h2>`

`<h3>`

`<p>`

``

``

``

``

`<u1>`

``

``

What CSS Does

Defines rules for the **presentation** of your website

- Typography
- Color
- Borders
- Backgrounds
- Alignment
- Positioning
- Spacing
- Transparency

CSS Review

CSS File



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

CSS Review

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

```
body {  
    background-color: black;  
    font-family: serif;  
    color: white;  
}
```


CSS Review

Typography

color
font-family
font-size
line-height
letter-spacing

font-style
font-weight

text-align
text-transform
text-decoration

Sizing

width
height

Spacing

margin
padding

Backgrounds

background-color
background-image
background-repeat
background-size

Borders

border
border-radius

Others

visibility
opacity
list-style-type
cursor

Building Website Navigation

What's the Goal?

- A well-structured menu of navigation links to the pages of your website
- The current page is highlighted

Our Approach

- Use an unordered list of links
- Style with CSS
- Give the link to the current page a unique style

Building Website Navigation

We will need to learn

- IDs and Classes
- More CSS selectors

Building Website Navigation

ID & Class

ID & Class

What do they do?

- ID and Class let us select **specific** items on the page in CSS

How do we use them?

- We first add them as **attributes** to any HTML element:

```
<h1 id="example-id">
```

```
<p class="example-class">
```


ID & Class

How do we use them?

- We can then select them using CSS:

```
h1#example-id { }
```

```
p.example-class { }
```

ID & Class

How do we use them?

```
<p id="example-id">
```

Some content

```
</p>
```

```
p#example-id {  
    color: blue;  
}
```

ID & Class

How do we use them?

```
<p class="example-class">
```

Some content

```
</p>
```

```
p.example-class {  
    color: blue;  
}
```

What's the difference?

id

- name
- unique! no two elements can have the same id

class

- kind/type
- OK to use same class on many elements

ID & Class

```
<p id="intro">
```

The only intro paragraph.

```
</p>
```

```
<p class="highlighted">
```

One of many possible
highlighted paragraphs.

```
</p>
```

Building Website Navigation

CSS

Selectors

Select HTML Element

Use the element (tag) name

`<body>`

`body { }`

`<h1>`

`h1 { }`

CSS Selectors

Select by ID

Use the # sign

```
<h1 id="top">
```

```
h1#top { }  
#top { }
```

```
<ul id="nav">
```

```
ul#nav { }  
#nav { }
```


CSS Selectors

Select by Class

Use a . (dot)

<code></code>	<code>a.selected { }</code>
	<code>.selected { }</code>

<code><h1 class="special"></code>	<code>h1.special { }</code>
	<code>.special { }</code>

Select by Mouse State

Use a **:hover** for mouse-over state
and **:active** for mouse-down state

```
a:hover { }
```

```
a:active { }
```

CSS Selectors

Select "descendent"

Use space between two selectors

```
<ul>                                ul li { }
  <li>Item</li>
</ul>
```

```
<h1>                                h1 em { }
  <em>Hi</em> there!
</h1>
```

CSS Selectors

Mix & Match

```
<ul id="nav">  
  <li>  
    <a href="#">Link</a>  
    <a class="selected" href="#">Link</a>  
    <a href="#">Link</a>  
  </li>  
</ul>
```

CSS Selectors

Mix & Match

```
ul#nav { }
```

```
<ul id="nav">  
  <li>  
    <a href="#">Link</a>  
    <a class="selected" href="#">Link</a>  
    <a href="#">Link</a>  
  </li>  
</ul>
```

CSS Selectors

Mix & Match

```
ul#nav li { }
```

```
<ul id="nav">  
  <li>  
    <a href="#">Link</a>  
    <a class="selected" href="#">Link</a>  
    <a href="#">Link</a>  
  </li>  
</ul>
```

CSS Selectors

Mix & Match

`ul#nav li a { }`

```
<ul id="nav">  
  <li>  
    <a href="#">Link</a>  
    <a class="selected" href="#">Link</a>  
    <a href="#">Link</a>  
  </li>  
</ul>
```

CSS Selectors

Mix & Match

`ul#nav li a.selected { }`

```
<ul id="nav">
  <li>
    <a href="#">Link</a>
    <a class="selected" href="#">Link</a>
    <a href="#">Link</a>
  </li>
</ul>
```


Centered Content Layout

Centered Content Layout

Why center?

- Most websites have a maximum fixed width, which makes text content more readable
- Centering your content gives it some breathing room

Centered Content Layout

How to center?

- Group our website's content inside an HTML container element
- Center the container using CSS

Centered Content Layout

Block vs Inline Elements

Block vs Inline elements

Block

- Moves to a new line
- Fills the browser width
- Pushes everything after it to a new line

Inline

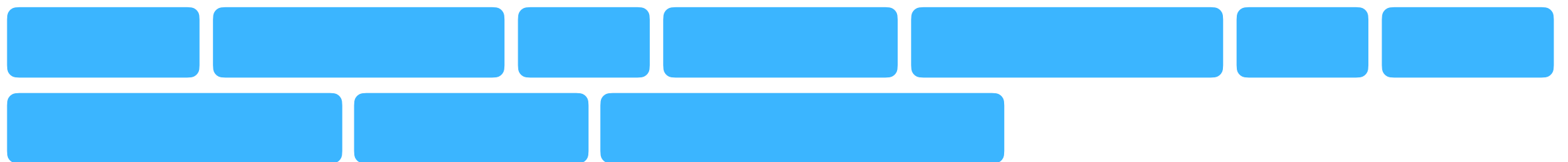
- Flows within the text on the page

Block vs Inline elements

Block



Inline



Block vs Inline elements

Block

`<h1><h2>`

`<p>`

``

``

Inline

` `

`<a>`

``

Text content

Centered Content Layout

Structural HTML Elements

Structural HTML Elements

New tags

<main>

<section>

<article>

<header>

<footer>

<nav>

New tags

- Use them to group content into containers
- They all function the same, so use the ones that make most sense for your content

Structural HTML Elements

New tags

<main>

<section>

<article>

<header>

<footer>

<nav>

Structural HTML Elements

Generic tags

`<div>`

Generic **block** element
(fills the width of the
browser by default)


``

Generic **inline** element
(flows within text like
`` & ``)

Generic tags

- Use them in conjunction with **id** and **class** to describe your content

 `<p>It 's Monday!</p>`

 `<p>It 's Monday!</p>`

Centered Content Layout

How to center?

Group website's content inside `<main>`

```
<body>  
  <main>  
    <p>All website content</p>  
    ...  
  </main>  
</body>
```

Centered Content Layout

Centering in CSS

- Give `<main>` element a `width`
- Add `auto` margins on the left and right

Centered Content Layout

HTML

```
<body>  
  <main>  
    <p>Content</p>  
    ...  
  </main>  
</body>
```

CSS

```
main {  
  width: 900px;  
  margin-left: auto;  
  margin-right: auto;  
}
```


Week 3

Project

Expand Your Website

- Add/split content to at least 3 pages
- Consistent navigation between pages
- Centered column layout

Navigation

- Add navigation to your website, using links to your pages within an unordered list (``)
- Use `class="selected"` on the `` for the selected page

Navigation

- Style your navigation with the help of new CSS selectors:
 - ID/Class selector
 - Descendent selector

Center Your Website

- Put your website content inside a `<main>` element
- Center the element by adding a `width` and setting the margin to `auto` on the left and right

Keep it structured

- Use the new HTML elements (`<header>`, `<section>`, `<nav>`, etc) to give structure & meaning to your pages
- Go back through your HTML and indent, check your opening/closing tags, etc

Questions? Comments?

- Visit <http://movingobjects.io/svc> for class slides, code samples, resources
- Email me: scott@movingobjects.io