

# HTML, CSS, & Fundamentals of Development

School of Visual Concepts  
Scott Thiessen, instructor

<http://movingobjects.io/svc/>  
[scott@movingobjects.io](mailto:scott@movingobjects.io)

# Week 3

- Review
- Building Website Navigation
  - ID & Class
  - CSS Selectors
- Centering Your Website
  - 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>`

`<strong>`

`<em>`

`<a href="">`

`<img src="">`

`<u1>`

`<ol>`

`<li>`

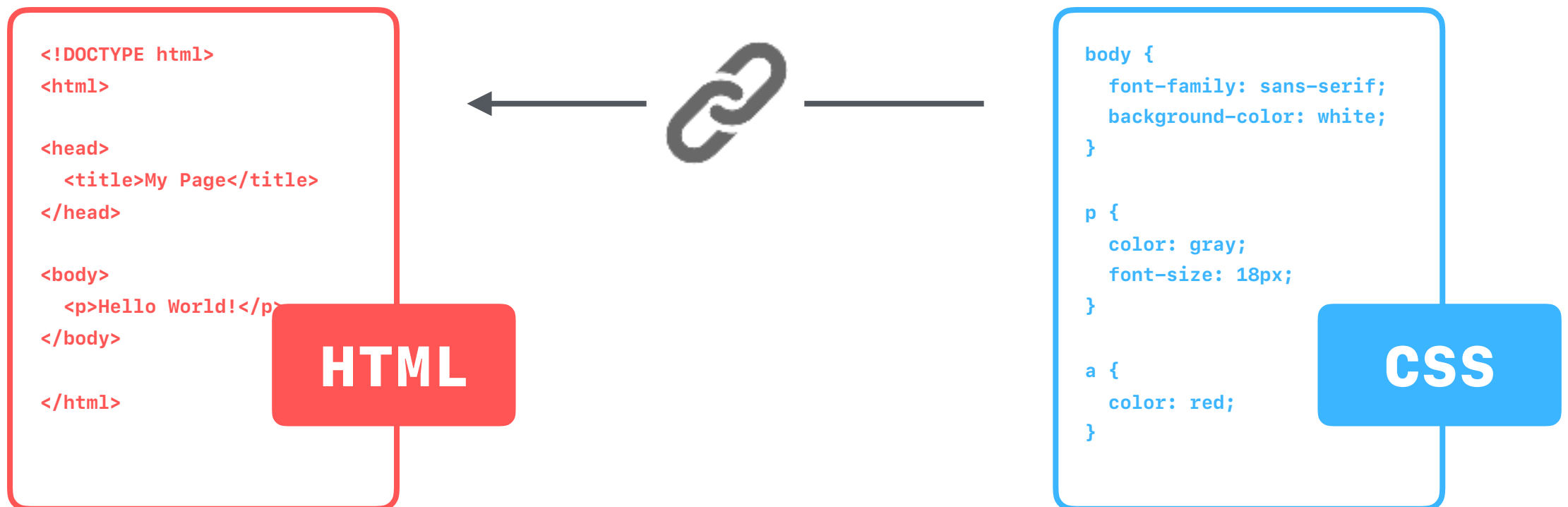
# What CSS Does

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`

## Special Selectors

`:hover`  
`:active`

# 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

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

id

class



## ID & Class

id

"Lucy"



class

"dog" "gray"

"small"

"charming"

"seated"

## 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

```
<div id="top">
```

```
div#top { }  
#top { }
```

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

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

# Select by Class

Use a . (dot)

|   |                             |
|---|-----------------------------|
| <code>&lt;a class="selected"&gt;</code> | <code>a.selected { }</code> |
|   | <code>.selected { }</code>  |

|   |                             |
|---|-----------------------------|
| <code>&lt;h1 class="special"&gt;</code> | <code>h1.special { }</code> |
|   | <code>.special { }</code>   |

## 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#nav { }
```

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

## CSS Selectors

# Mix & Match

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

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

## CSS Selectors

# Mix & Match

`ul#nav li a { }`

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

# Centering Your Website

# Why center?

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



## Centering Your Website

# How to center?

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

Centering Your Website

# Structural HTML Elements

## Structural HTML Elements

# New Tags

`<main>`

`<section>`

`<article>`

`<header>`

`<footer>`

`<div>`

# New Tags

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

## Structural HTML Elements

# New Tags

`<main>`

`<section>`

`<article>`

`<header>`

`<footer>`

`<div>`

## Centering Your Website

# How to center?

Group website's content inside `<main>`

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

# Centering in CSS

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

# Centering Your Website

## HTML

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

## CSS

```
main {  
  width: 800px;  
  margin-left: auto;  
  margin-right: auto;  
}
```



# Week 3

## Project

# Website of Your Choice

- Showcase a favorite restaurant/shop, artist/artwork, or musician/album/song
- Demonstrate a how-to project/recipe
- Create a simple portfolio website (visual art, music, writing, etc)

# Guidelines

- 3+ simple pages
- Consistent navigation between pages
- Use as many of the CSS properties we've covered as possible
- Use structural HTML elements and IDs & classes as necessary

# Navigation

- Add navigation to your website, using links to your pages within an unordered list (`<ul>`)
- Use `class="selected"` on the `<li>` 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>`, `<div>`) to give structure & meaning to your pages

# Questions? Comments?

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