HTML

DEEPER INTO HTML

WHAT WE'LL BE COVERING

- Semantics
- <div> and
- Text Elements
- Structure
- Links

SEMANTICS

COOL WORD, WHAT DOES IT MEAN?

- se·man·tics the meaning of a word, phrase, sentence, or text.
- Example:

 Oh man, they're on fire
 There is a bird on the TV

 Dude
- Without context, these phrases are hard to understand.

HOW DOES IT APPLY TO HTML?

- A computer interpreting code, doesn't understand ambiguous context.
- Bad Non-Semantic Headline
 My Page Headline

Good Semantic Headline

<h1>My Page Headline</h1>

WHY ARE SEMANTICS IMPORTANT?

- Without explaining what a piece of content is, a computer has no way of identifying it.
- Semantic code aids accessibility
- Search engines need to understand what your content is about in order to rank you properly on search engines.

WHY ARE SEMANTICS IMPORTANT?

- Semantic code is shorter and downloads faster.
- Easier to understand and read.
- Good semantic code re-enforces separation of style from content.
 - Allows easier visual changes through CSS
 - You can change the visual style without changing the HTML, so... less coding.

EXAMPLES OF SEMANTIC HTML ELEMENTS

```
<html>
<address>
<article>
<header>
<footer>
<nav>
<section>
```

<div> and

DIV AND SPAN ELEMENTS

- Have no semantic value.
- Used as containers for styling.
- We'll use them(especially <div>) very often.

BLOCK ELEMENTS AND INLINE ELEMENTS

- div> are block elements
- are in-line elements.

BLOCK LEVEL ELEMENTS

- Begin on a new line
- Stack on top of each other
- Take up any available width.
- Example:

http://codepen.io/ianshea/pen/XXaYqZ

INLINE ELEMENTS

- Do not begin on a new line
- Line up one after another right inline
- Maintain the width of their content within the tag
- Example:

http://codepen.io/ianshea/pen/BjdVOj

USAGE

- Use <div> to identify groupings of content
- Use to style pieces of content
- We can control the visual styling of these elements using classes and ids
- Example:
 http://codepen.io/ianshea/pen/vLJrQo?editors=110

TEXT ELEMENTS

CONTENT CONTENT CONTENT

- Most content on the web is text.
- Content is searchable or 'indexable' by search engines.
- We've seen and used these text elements already!
 <h1> tags and tags.

TEXT ELEMENT EXAMPLES

```
<h1>Headline Level 1</h1>
 <h2>Headline Level 2</h2>
  <h3>Headline Level 3</h3>
   <h4>Headline Level 4</h4>
   <h5>Headline Level 5</h5>
    <h6>Headline Level 6</h6>
```

Some rad paragraph text

SEMANTICS FOR TEXT ELEMENTS

- We use tags to place strong importance on text.
- We use tags to semantically emphasize text.
- Remember! s will not provide semantic value

Pizza is the best.

STRUCTURE

BUILDING PAGE STRUCTURE

- We can use semantic HTML elements to build structure.
- We can use <div>s inside these elements to provide additional "structural support".
- Structural elements are usually block level elements
- Structural based elements:

```
<header> <nav> <article> <section> <aside> <footer>
```

BUILDING PAGE STRUCTURE

Structural example http://codepen.io/ianshea/pen/QyMBwM?editors=110

<header>

- Identify the top of a page, article, section or any other element on your page.
- ▶ Not to be confused with the <head> or <h1> elements.
- <head> elements provide instructions to the browser. ex: The <title> element and link to a CSS file
- <h1> may live within a <header> and denote levels of headings.



- Identifies navigation on your page.
- Used for global navigations, or large sections of navigation.
- For example: It would not be used to wrap <a> tags in your list of sites from Assignment #1.

<article>

- Identifies independent self-contained content.
- Examples:
 - A blog post
 - User comments
- Article does not explicitly imply an "article" like in a newspaper. Articles are pieces of self-contained content.

<section>

- Identifies grouping of thematic content
- Usually has a <header> but not always.
- Is somewhat generic, but should not be used instead of a <div>
 - Remember, it should identify a thematic grouping of content.
 - Example A comments section on a blog. http://codepen.io/ianshea/pen/XXaBMo?editors=110

<article> or <section> or <div>

- To decide which to use, look at your content
- <article> are used for independent content
- <section> are used for groups of thematic content

<aside>

- Used for content that is related to other content
- Example:

```
<article> ... Blog Post ... </article>
<aside> About the Author </aside>
```

It is named "aside" but it's a block level element and it will not be naturally positioned to the side of anything.

<footer>

- Identifies closing of an article or page.
- Usually found at the bottom of it's parent.
- Contains relative content to what it's closing.

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LINKS

<A> TAGS

- Moving around the internet entails clicking on <a> tags.
- <a> tags are an inline element.
- <a> tags require an href element so it knows where to send a user when clicked.

RELATIVE VS. ABSOLUTE

- Relative links are for linking to items that reside on the same server or file system as our document that contains the link.
- Absolute links direct someone to an explicit location.

RELATIVE VS. ABSOLUTE

- Relative Links
 - href attribute value does not contain a domain Example: href="about.html"
 - for linking to local assets within the same website
- Absolute Links
 - href attribute value Will contain a full domain Example: href="http://example.com/about.html"
 - For linking to external sites or assets

RELATIVE VS. ABSOLUTE

```
/your/website/files/
                     index.html ◀······
<link href="main.css">
about.html ◄····
<link href="main.css">
<a href="index.html">Home</a> O
<a href="http://github.com">Github</a>
```