FRONT–END WEB DEVELOPMENT

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Agenda

- Student Experience
- Intro. To Web Development
- HTML Tags
- Lab Time (woo!)

Leon Noel
CEO, SocialSci

CEO of SocialSci, an academic surveying platform used by thousands of scientific researchers around the world. Leon conceived of SocialSci while studying biological anthropology at Yale. His company, incubated by TechStars Boston and Dog Patch Labs, has raised over one million in funding and has helped researchers answer more than 18 million scientific questions.

Notes

First class–

Make sure you've registered on Schoology

Download Sublime

Every class–

Download the labs zip from Schoology

WHAT IS WEB DEVELOPMENT?

How the web works

- How does my code get to a users browser.

Web Development Roles

Front-end
(client-side)
•HTML
•CSS
•JavaScript

Back end
(server-side)
•Ruby
•PHP
•Python
•PERL
•C++

Code Along:

General Assembly Press Release

HTML BASICS

HTML basics

- HTML vs HTML5
- Document Structure
- Syntax
  - Content Tags

html and html5

HTML5 is HTML with a few additions

The Doctype tells you if the page is HTML5 ready.

New HTML5 features
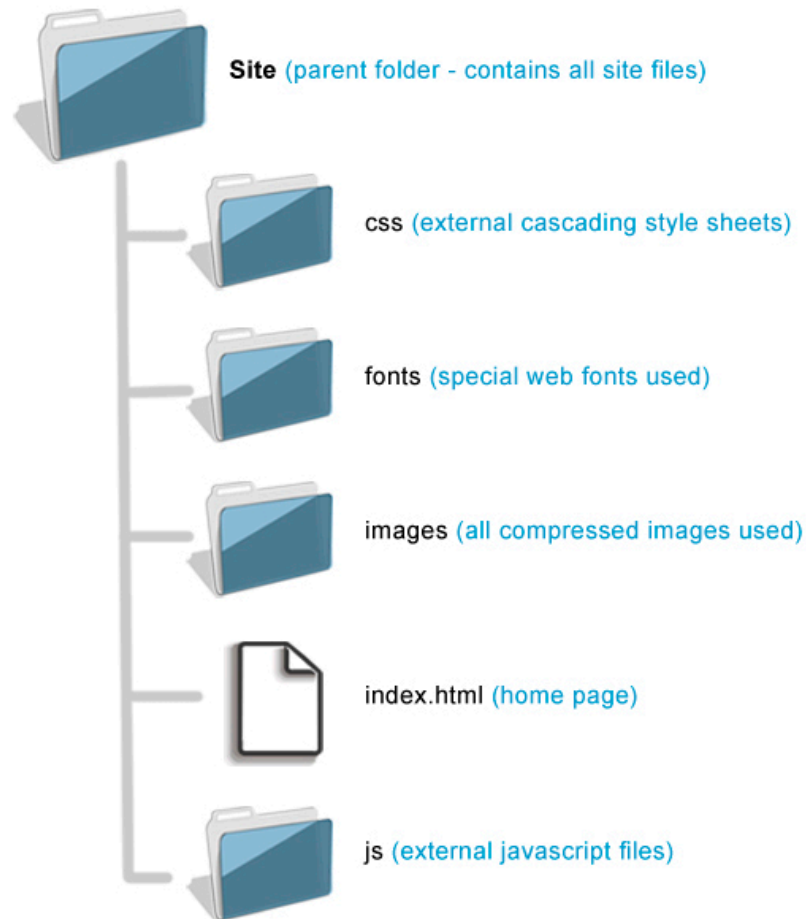
- <video>
- <audio>
- <canvas>
- Geolocation
- Websockets

document structure
separation of concerns

- HTML = structure
- CSS = style
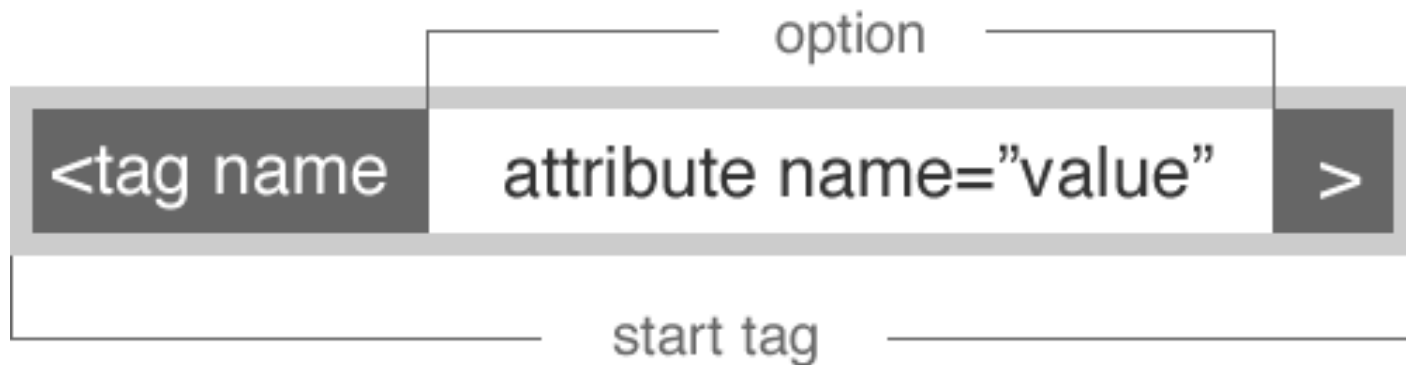- JS = behavior

Site organization

Site (parent folder - contains all site files)

css (external cascading style sheets)

fonts (special web fonts used)

images (all compressed images used)

index.html (home page)

js (external javascript files)

syntax

syntax

Content tags

Heading Elements

```
<h1>Largest Heading</h1>
<h2> . . . </h2>
<h3> . . . </h3>
<h4> . . . </h4>
<h5> . . . </h5>
<h6>Smallest Heading</h6>
```

Content tags

Text Elements

```
<p>This is a paragraph</p>
<br> (line break)
<hr> (horizontal rule)
<pre>This text is preformatted</pre>
```

Content tags

Text Elements

This text is emphasized

This text is strong

<code>This is some computer code</code>

Content tags

Unordered list

```
<ul>
    <li>First item</li>
    <li>Next item</li>
</ul>
```

Content tags

Ordered list

```
<ol>
    <li>First item</li>
    <li>Next item</li>
</ol>
```

Content tags

Definition list

```
<dl>
    <dt>First term</dt>
    <dd>Definition</dd>
    <dt>Next term</dt>
    <dd>Definition</dd>
</dl>
```

Deprecated Content tags

Text Elements cont.

Physical Styles

```
<b>This text is bold</b>
<i>This text is italic</i>
```

Basic Document structure

```
<html>
    <head>
        Document metadata
    </head>

    <body>
        Document contents
    </body>
</html>
```

Absolute/Relative

When referencing a resource:

Absolute paths are tied to a root folder for a computer

–I.e. C drive on windows

–home page for a website

–Ex: https://www.schoology.com/ga/images/myimage.jpg or C:\Users\William\Documents\GitHub\images\myimage.jpg

Relative paths are tied to the folder the calling document is in

–I.e. images/myimage.jpg

To go up a directory, use "../"

Project:

Cookie Recipe

mmm cookies…!

Homework

- Build a resume site
- Watch a video about the internet