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 GENERAL ASSEMBLY

**FRONT-END**

**WEB DEVELOPMENT**

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# FELIX COHEN

- Web developer for 8 years
- Background in Psychology
- Worked on BBC, Apple, Yahoo!, BAFTA nominated team, openDemocracy etc
- Written for Guardian & Telegraph
- Also a bartender :)



# **WHAT IS WEB DEVELOPMENT?**

# **HOW THE WEB WORKS**

- What is the web?
- What is the difference between a browser and a server?
- DNS and Hosting

# **DYNAMIC WEBSITES**

- Building websites using a database
- Newspapers
- eBay
- Amazon
- flickr
- facebook

# **WEB DEVELOPMENT ROLES**

## **Front-end (client-side)**

- HTML
- CSS
- JavaScript

## **Back end (server-side)**

- Ruby
- PHP
- Python
- PERL
- C++

# **HTML BASICS**

# **HTML BASICS**

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



# **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

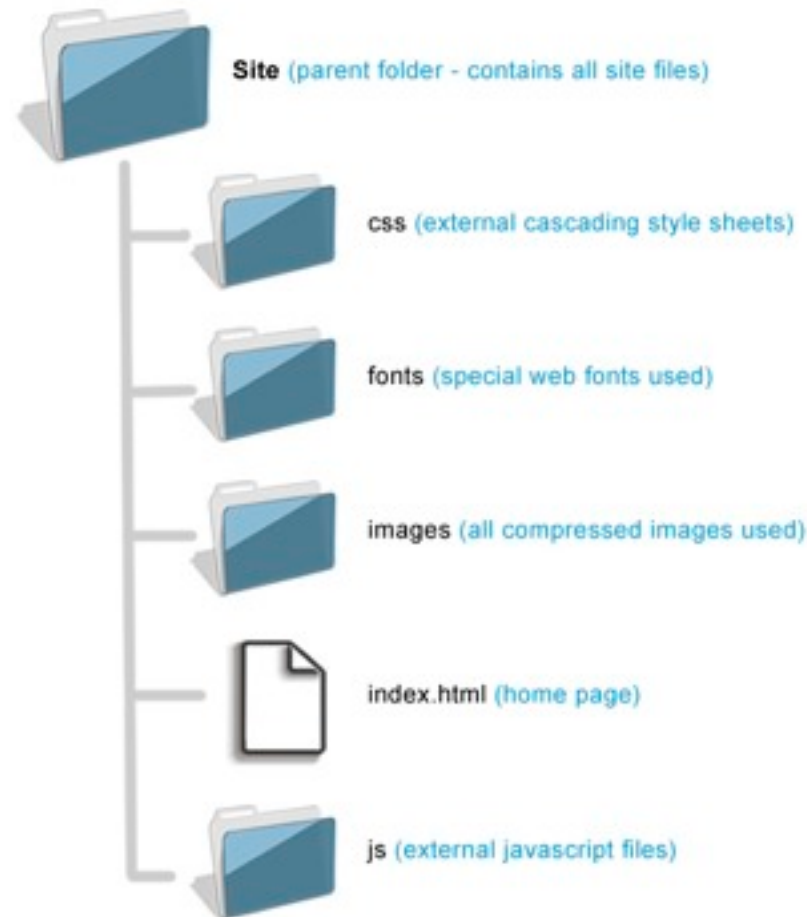


# **DOCUMENT STRUCTURE**

## **SEPARATION OF CONCERNS**

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

# SITE ORGANIZATION



# 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

`<em>This text is emphasized</em>`

`<strong>This text is strong</strong>`

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



# CONTENT TAGS

## Text Elements

`<p>This is a paragraph</p>`

`<br>` (line break)

`<hr>` (horizontal rule)

`<pre>This text is reformatted</pre>`

# 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>
```

# DEPRECIATED 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>
```

# **CODE ALONG:**

## **INTRODUCTION TO CSS**

<http://bit.ly/19W0m00>