Introduction

Objectives

HTML + CSS Refresher

Topics

Topics

1. Introduction, Objectives, HTML + CSS
2. CSS Layouts, Responsive Design
3. CSS Typography, UI Elements
4. CSS Animations, Transitions

Topics

5. Dev team processes; Agile, JIRA

6. Dev technical methodology; Stash, Git

7. Frontend / Backend overview; Client, Server

8. Infrastructure; Akamai, AWS, CI

Why learn about tech?

Why learn about tech?

1. "The medium is the message."

Why learn about tech?

1. "The medium is the message."
2. Intra-team communication

Why learn about tech?

1. "The medium is the message."
2. Intra-team communication
3. ... ultimately improve 9's products

Todos

Todos

✓ Get a Codepen account

Todos

✓ Get a Codepen account
✓ Revise (if possible) before next week

PART 1

Introduction

Objectives

HTML + CSS Refresher

Clearer understanding of…

1. How Mi9 technology teams work

Clearer understanding of...

1. How Mi9 technology teams work
2. How Mi9 products are developed

Clearer understanding of...

1. How Mi9 technology teams work
2. How Mi9 products are developed
3. How Mi9 products are published

New skills

New skills

4. Understand HTML / CSS fundamentals

New skills

4. Understand HTML / CSS fundamentals
5. Modify designs in the browser

New skills

4. Understand HTML / CSS fundamentals

5. Modify designs in the browser

6. (Maybe) create basic prototypes

Introduction

Objectives

HTML + CSS Refresher

HTML / CSS / Javascript

HTML / CSS / Javascript

- Building blocks of the web

HTML / CSS / Javascript

- Building blocks of the web
- Everything in a browser uses these three technologies exclusively

HTML

Markup language that gives a page structure

HTML

Markup language that describes a document

```
<body>
  <h1>My Awesome Webpage</h1>
  <p>Hello
    <em>Ujin</em>
  </p>
</body>
```

HTML

Markup language that describes a document

```
<body>
  <h1>My Awesome Webpage</h1>
  <p>Hello
    <em>Ujin</em>
  </p>
</body>
```

wut

HTML Tags

Tags tell us about the content

```
<body>
  <h1>My Awesome Webpage</h1>
  <p>Hello
    <em>Ujin</em>
  </p>
</body>
```

^This is a heading

HTML Tags

Tags are nested

```
<body>
  <h1>My Awesome Webpage</h1>
  <p>Hello
    <em>Ujin</em>
  </p>
</body>
```

^ *This is a paragraph and 'Ujin' is a child element being em-phasised.*

HTML Tags

Tags can desribe media too

```
<video>
<img>
<audio>
```

Images, video and audio are all part of the HTML specification

HTML Tags

There are lots of other tags

```
<aside>
<blockquote>
<main>
<date>
```

Tags for all the things

HTML demo

Let's see HTML in action...

HTML Tags

Some tags need attributes

```
<img src="http://meme.com/funny.gif">
<a href="http://google.com>Google</a>
```

HTML Tags

Some tags need attributes

```
<img src="http://meme.com/funny.gif">
<a href="http://google.com>Google</a>
```

The 'Src' attribute tells us what
image to load for the <img> tag

HTML Tags

Some tags need attributes

```
<img src="http://meme.com/funny.gif">
<a href="http://google.com>Google</a>
```

The 'href' attribute tells us what
page to link for the <a> tag

CSS

CSS

- Cascading Style Sheets

CSS

- Cascading Style Sheets
- Applies visual styles to the document

CSS

- Cascading Style Sheets
- Applies visual styles to the document
- Highly flexible; 100s of style values

CSS

Demo time...

CSS

Styles are applied using selectors

```css
h1 {
  font-family: 'Comic Sans';
}
.quote {
  background-color: green;
}
```

CSS

Styles are applied using selectors

```
h1 {  This style is applied for all tags 'h1'
  font-family: 'Comic Sans';
}
                        <h1>…</h1>
.quote {
  background-color: green;
}
```

CSS

Styles are applied using selectors

```
h1 {
  font-family: 'Comic Sans';
}

.quote {  Applied for any tag with the class 'qoute'
  background-color: green;
}              <div class="quote">…</div>
```

CSS

Called 'Cascading' for a reason

```css
.left-column .item {
  width: 75%;
}

.right-column .item {
  width: 25%;
}
```

CSS

Called 'Cascading' for a reason

```css
.left-column .item {
  width: 75%;
}

.right-column .item {
  width: 25%;
}
```

Tags with class 'item' will have different widths depending on which antecedent they have.

CSS

Block vs inline. Very important.

CSS

Block vs inline. Very important.

- Block elements include things like paragraphs, headings and layout elements

CSS

Block vs inline. Very important.

- Block elements include things like paragraphs, headings and layout elements
- Inline elements include things like bold tags, link (anchor) tags and italics tags.

CSS

Demo time...

CSS Specificity

If multiple styles are applied to the same element then the more specific style will be applied. Specificity is determined by things such as order and numnber of levels.

CSS Specificity

Order matters

```css
.item {
  background: red;
}
.item {
  background: blue;
}
```

CSS Specificity

Order matters

```css
.item {
  background: red;
}
.item {
  background: blue;
}
```

This element will be blue because 'blue' was declared after 'red'

CSS Specificity

And so does the number of rules

```css
.item-parent .item {
  background: yellow;
}
.item {
  background: blue;
}
```

This element will be yellow because more rules were used to select the element

CSS Specificity

Demo time...

A word on Javascript

A word on Javascript

- Out of scope

A word on Javascript

- Out of scope
- However, important to understand what it does

A word on Javascript

- Out of scope
- However, important to understand what it does
- Javascript uses programming logic to change the CSS / HTML state of a document

A word on Javascript

Demo time...

Summarising

- HTML is a way to semantically describe documents including text and media content

Summarising

- HTML is a way to semantically describe documents including text and media content
- HTML elements have a tag name and may have attributes that provide more information

Summarising

- CSS applies style to a document

Summarising

- CSS applies style to a document
- CSS rules are applied by tag name or class

Summarising

- CSS applies style to a document
- CSS rules are applied by tag name or class
- CSS rules cascade

Summarising

- CSS applies style to a document
- CSS rules are applied by tag name or class
- CSS rules cascade
- CSS rules have specificity

Revision

I will email all the demos. Please take a look and take a few minutes to revise this presentation.

Thank you.