FRONT-END WEB DEVELOPMENT

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HTML CSS RECAP

HTML - The structure

CSS - The styling

‣ Introduction to JavaScript & jQuery
‣ Basic jQuery

INTRODUCTION TO JAVASCRIPT + JQUERY

WHAT IS JAVASCRIPT?

‣ Programming behaviour on the web

‣ Like other programming languages, relies on logic, data and functions.

‣ Unlike HTML or CSS; these are 'markup' languages.

WHAT IS JAVASCRIPT?

‣ A 'turing complete' programming language

‣ But designed for working with HTML (and CSS).

‣ Runs in the browser

LETS TALK ABOUT CARS

And then we can make some toast.

WHAT IS JQUERY?

We have a whole section dedicated to jQuery

but we are going to learn a little jQuery today to make JS more fun!

EXERCISE: WHAT JAVASCRIPT CAN DO

- BBC iPlayer

- Chosen

- jQuery validate

ADDING JAVASCRIPT TO THE WEBPAGE

Loading a JavaScript file:

- ‣ <script type="text/javascript" src="path/file.js"></script>

Inline JavaScript

- ‣ <script type="text/javascript">
    "JavaScript code goes here";
  </script>

Even more Inline JavaScript

- ‣ Click me

LAB TIME

Building a page to play with jQuery

BASIC JQUERY

ADDING JQUERY TO OUR WEBPAGES

```
Google hosted jQuery vs Self hosted jQuery
```

JAVASCRIPT STATEMENTS

- A line of code
- Ends in a semicolon;
- // /* */ comments
- Lots of {} and ()

THE CORE OF JQUERY

```
$(selector).doSomething;
```

DOCUMENT READY FUNCTION

We can only execute code against our HTML once the browser has read all of our HTML.

We can either:

$(document).ready(allMyCode)

or load javascript at the end of the page

JQUERY FUNCTIONS

```
<h1>GA Is The Best</h1>
<p>Hello</p>

    $("p").html("goodbye");
    $("h1").css("color", 'blue');
```

LAB TIME

Code Along: Code Pen

STRUCTURE OF THE JS LESSONS

- First 4 lessons focus on programming fundamentals.
  - We will work a lot in the console.
- The rest we are back in the browser and text editor.