



FEWD - jQuery Intro

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Agenda

- Intro To Programming Review
- Functions.
- Intro To jQuery
- jQuery Basics
 - Syntax
- Adding Interactivity

Intro To Programming Review

What are your questions?

A quick review!

- What does an `if` statement do?
- What does an `else` statement do?
- What does a variable do?
- What is JavaScript?
- When adding JavaScript to a webpage, what is the two-step process we need to remember for most features we want to add?

A quick review!

- We call words wrapped in quotes `"Tom"` a string.
- Strings can be words, emails, address, sentences, paragraphs. Any chunk of text.
- We call whole numbers integers: `1` , `2` , `-100`
- We call numbers with decimals floats: `1.5` , `100.2` , `5.0`

Lets talk about functions.

- A bit of review - What do all 'programs' have?

Lets talk about functions.

- Inputs and Outputs!
- Functions are micro programs, with inputs and outputs!

```
function simpleAdd(input1, input2) {  
  return input1 + input2  
}
```

```
simpleAdd('Foo', 'Bar'); // Gives back 'FooBar'
```

A function doesn't always need to have a `return` - sometimes its output is just changing the HTML page.

Lets talk about functions.

- A function could have no inputs:

```
function clearPageErrors() {  
  // Find all the divs with the 'error' class.  
  // Change the css to display: none.  
}
```

- Or it could have one, or many

```
function fullName(firstName, lastName) {  
  return firstName + ' ' + lastName;  
}  
  
fullName('Tom', 'Broomfield');  
// Will give back 'Tom Broomfield'
```


Intro To jQuery

- Why do we use Javascript again?
- Using just Javascript to interact with our webpage is *hard*.
- The syntax is long, hard to remember and doesn't make a lot of sense.
- jQuery is a toolset that makes that all a lot easier.
- jQuery has been the industry standard for a very long time, and sits next to JavaScript in terms of importance.

What Is jQuery?

jQuery

jQuery is a cross-browser JavaScript library designed to simplify the interacting with our web page.

- What is a library?

jQuery

- jquery.com - A JavaScript library that makes DOM manipulation simple.
- “Cross browser” - works the same in all* browsers.
- Allows:
 - HTML traversal
 - CSS Manipulation
 - Event Handling
 - Animation
 - and more!

jQuery

Adding jQuery to your website

`<script src="js/jquery-1.8.3.min.js"></script>` - Adding the file.

`<script
src="//ajax.googleapis.com/ajax/libs/jquery/1.10.2/jquery.
min.js"></script>` - CDN

Syntax

Syntax: Spelling and grammar rules of a programming language.

Note:

Like with any language, there are formal rules around how to write it. This is the syntax.

- English says to start sentences with a capital letter.
- Javascript says you can create a new variable with the `var` keyword.

JavaScript Syntax - Punctuation

- Semicolon
- Brackets
- Parentheses
- Quotation Marks

JavaScript Syntax - Comments

```
//Single Line Comments
```

```
/* Multi  
   line  
   comments */
```


jQuery Syntax

\$

The Dollar Sign

jQuery Syntax - Selectors

- Target an element on the page (`.foo`)
- Do something when we `click` that element. In this case, `a_function` .

Selectors are just like CSS

```
$(".foo").click(a_function);
```

In jQuery, this might look more like:

```
$('#selector').click(doSomething);  
  
function doSomething() {  
    // This happens we when click!  
}
```

Waiting for the page to finish setting up.

- We can't run our code until the elements on the page are properly loaded in.
- JQuery helps us with this by giving us a `ready` function.

```
$(document).ready(a_start_function);  
  
function a_start_function() {  
    // Everything that we want to happen when our program  
    // starts.  
}
```

jQuery Click Event

.click(a_function)



jQuery Traffic Light



Lets build a 'show more' - 'show less' button.

