

Admin Items

jQuery \$(Begins)

Not the Way to Learn Coding

DEATH BY POWERPOINT



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True Way to Learn Coding



***Be prepared to have classes that
are increasingly “just code”***

You will appreciate it in the long-run

Today's Class

Objectives

In today's class we'll be covering:

- DOM Manipulation using Plain Javascript
- DOM Manipulation using jQuery
- Responding to click events

DOM Manipulation

Understanding the “DOM”

todos

✓ *What needs to be done?*

☐ Learn jQuery

☐ Watch The Ring 5 more times

☐ Lift 200 pounds

☐ Create portfolio

4 items left

All

Active

Completed

- Every HTML page begins as static content..
- However, with Javascript / jQuery we can “modify the DOM” and change this static content in real-time.
- This allows us to build dynamic sites.

Basic Example: <http://todomvc.com/examples/jquery/#/all>

Instructor: Demo

(1-5.html | 1-DOM_Manipulation)

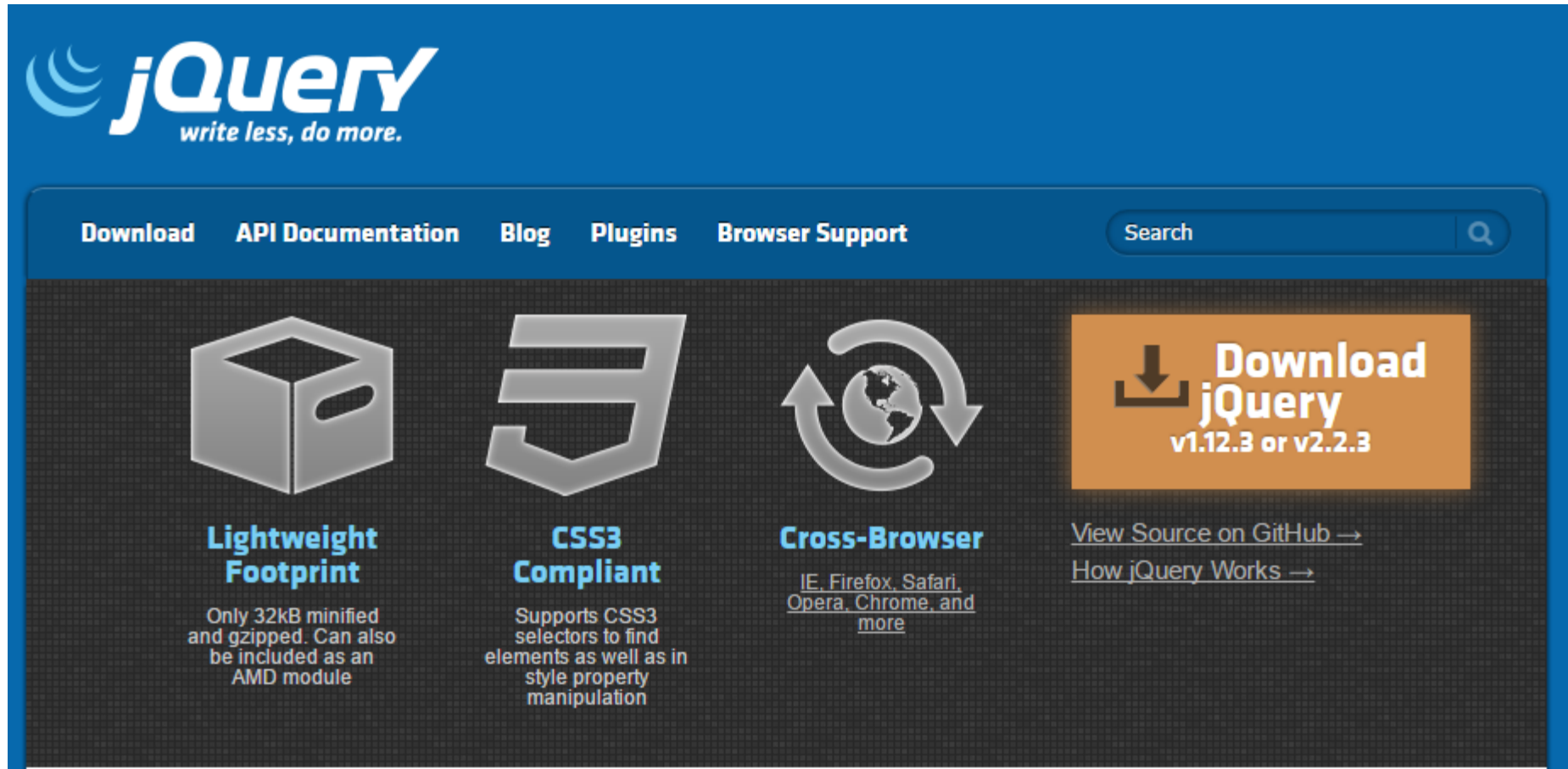
Code Creation: Generating HTML with Javascript

- Using the file sent to you as a starting point, add the missing code such that your Javascript generates HTML content that displays all of the drink options.
- **HINT:** You will need a for-loop. Inside your for loop you will need to use each of the following methods: createElement, innerHTML, and appendChild.

Intro to jQuery

Intro to jQuery

<https://jquery.com/>



jQuery is a cross-platform **Javascript library** for easier of client-side HTML scripting.

jQuery Helper Library

jQuery can be useful for tasks like:

- Dynamically Inserting, Updating, or Removing HTML
- Registering click or other change events
- Animating HTML elements
- Download data from databases
- And much more!



Working with jQuery generally involves...

1. Including a CDN Link to the jQuery script...

```
<!-- Added link to the jQuery Library -->  
<script src="https://code.jquery.com/jquery-2.2.3.js" integrity="sha256-  
laXWtGydpwqJ8JA+X9x2miwmaiKhN8tVm0VEigRNtP4=" crossorigin="anonymous"></script>
```

2. Utilizing the jQuery specific (\$) selector...

```
$("#clickMe")
```

3. Then applying jQuery methods on the selected elements.

```
$("#clickMe").on("click", function(){  
    // Trigger an alert.  
    alert("I've been clicked!");  
})
```

Instructor: Demo

(1-3.html | 3-jQueryGenerators)

Code Creation: Generating HTML with jQuery

- Re-factor (re-write) your previous drinkList code from earlier, but this time use jQuery to complete all of the same tasks.
- Your final code should NOT have any of the following methods: createElement, innerHTML, or appendChild.
- **HINT:** Don't forget to "incorporate" jQuery before you begin.
- **BONUS:** Instead of using a `for` loop try searching about the use of the jQuery `.each` method.

Instructor: Demo
(onclick.html | 5-OnClickBasic)

Code Creation: Click Events with jQuery

- Add in the missing code such that clicking any of the sandwiches causes...
 - An alert message to popup saying something snarky about the sandwich type.
 - A second alert message that displays to the user the number of that specific sandwich they've eaten.
- **HINT:** You will need counter variables.
- **BONUS:** Add an image to the `image-div` on the click event.

jQuery Recap

- 1. Find some HTML.**
- 2. Attach to an event.**
- 3. Do something in response.**



jQuery – In a Nutshell

We use the jQuery `$()` identifier to capture HTML elements.

`$(".classname")`

`$("elementname")`

`$("#idname")`

`$("etc")`

Then we tie the element to a jQuery method of our choosing to capture events and change that element (or a different element)

`.on("click")`

`.ready()`

Finally, we tie the element to a jQuery method of our choosing to capture events and change that element (or a different element)

`.append()`

`.animate()`

`.etc()`

jQuery – Common Example

```
$(".growButton").on("click", function() {  
    $(".captainplanet").animate({ height: "500px" });  
});
```

Superpowers - Change Sizes!

☒ Normal

☐ + Grow

☐ - Shrink

1. Click the Grow Button



2. Make Captain Planet Grow

Use Documentation When Needed!



[Download](#) [API Documentation](#) [Blog](#) [Plugins](#) [Browser Support](#)

Search



- Ajax
 - Global Ajax Event Handlers
 - Helper Functions
 - Low-Level Interface
 - Shorthand Methods
- Attributes
- Callbacks Object
- Core
- CSS
- Data
- Deferred Object
- Deprecated
 - Deprecated 1.3
 - Deprecated 1.7
 - Deprecated 1.8
 - Deprecated 1.9

jQuery API

jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. If you're new to jQuery, we recommend that you check out the [jQuery Learning Center](#).

If you're updating to a newer version of jQuery, be sure to read the release notes published on [our blog](#). If you're coming from a version prior 1.9, you should check out the [1.9 Upgrade Guide](#) as well.

Note that this is the API documentation for jQuery core. Other projects have API docs in other locations:

- [jQuery UI API docs](#)
- [jQuery Mobile API docs](#)
- [QUnit API docs](#)

`.add()`

Traversing > Miscellaneous Traversing

Create a new jQuery object with elements added to the set of matched elements.

`.addBack()`

Traversing > Miscellaneous Traversing

Add the previous set of elements on the stack to the current set, optionally filtered by a selector.

Questions?
