

# ***Admin Items***

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# *jQuery \$(Begins)*

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# Not the Way to Learn Coding

DEATH BY POWERPOINT



[www.pigsdontfly.com](http://www.pigsdontfly.com)

# 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***

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# Objectives

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## In today's class we'll be covering:

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

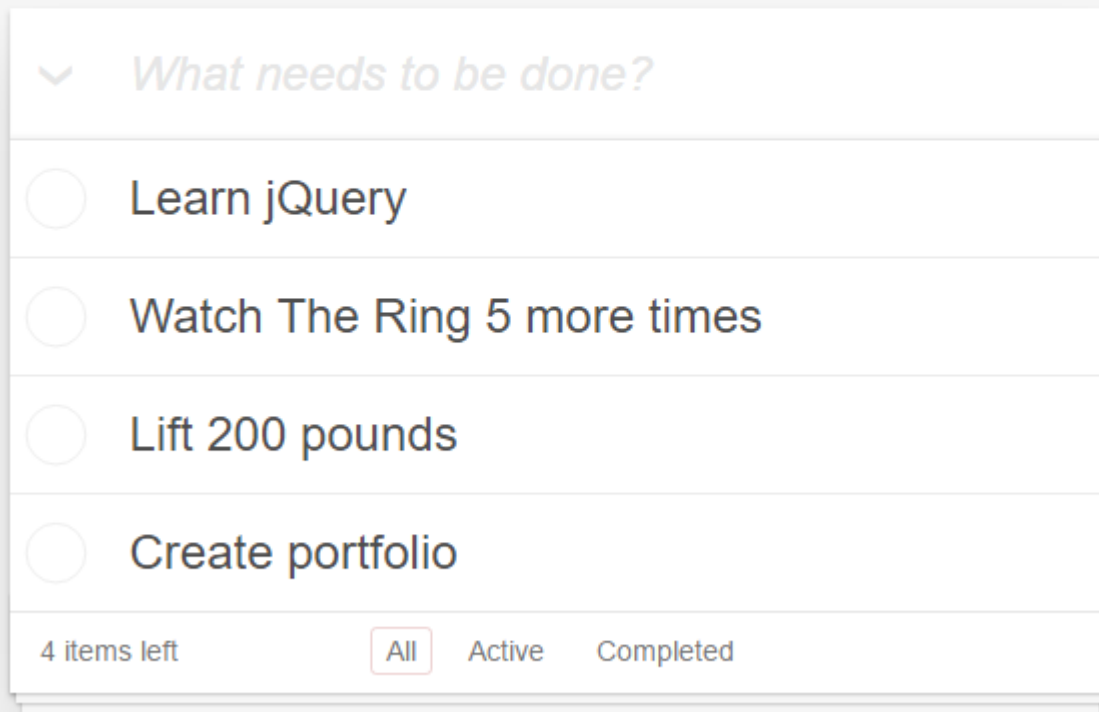
# ***DOM Manipulation***

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# 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

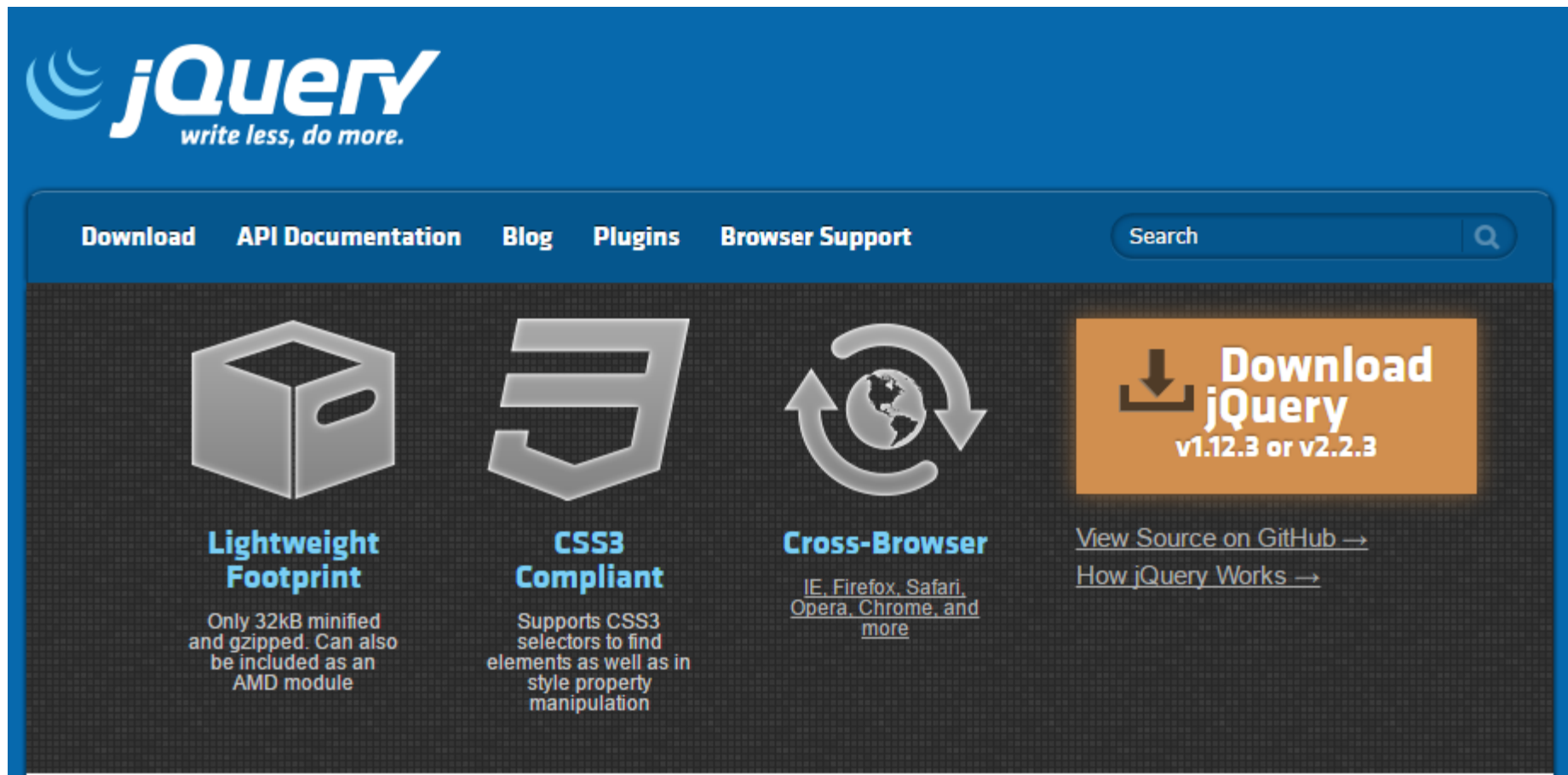
- Using the file sent to you as a starting point, add the missing code such that your Javascript generates HTML content that displays all of the drink options.
- **HINT:** You will need a for-loop. Inside your for loop you will need to use each of the following methods: createElement, innerHTML, and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

# *Intro to jQuery*

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# Intro to jQuery


<https://jquery.com/>


The image shows the jQuery website homepage. At the top is the jQuery logo with the tagline "write less, do more.". Below the logo is a navigation bar with links for "Download", "API Documentation", "Blog", "Plugins", and "Browser Support". To the right of the navigation bar is a search bar. The main content area features three columns: "Lightweight Footprint" with a box icon, "CSS3 Compliant" with a stylized 'E' icon, and "Cross-Browser" with a globe icon. To the right of these columns is a large orange button that says "Download jQuery v1.12.3 or v2.2.3". Below the button are two links: "View Source on GitHub" and "How jQuery Works".


**jQuery**  
write less, do more.

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

  
**Lightweight Footprint**  
Only 32kB minified and gzipped. Can also be included as an AMD module

  
**CSS3 Compliant**  
Supports CSS3 selectors to find elements as well as in style property manipulation

  
**Cross-Browser**  
[IE, Firefox, Safari, Opera, Chrome, and more](#)

 **Download jQuery**  
v1.12.3 or v2.2.3

[View Source on GitHub →](#)  
[How jQuery Works →](#)

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

# jQuery Helper Library

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**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*

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



# jQuery – In a Nutshell

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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?***

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