You don't know JS!

This Afternoon

- Review Game
- Javascript Review
- jQuery Review
- The Javascript World

Review Game

- 4 teams
- Must choose top cards first.
- Each time one person answers Q in a row, 100 point reduction from points earned.

Javascript Review

```
var number = 5;
var string = "Hello";
var array = [1, 2, 3];
var object = {a: 1, b: 2};
var func = function (x) { return x * x; }
if (object.a == 1) {
  console.log("A is 1");
for (var i = ∅; i < array.length; i += 1) {</pre>
  var value = func(array[i]);
  console.log(value);
```

What does it do?

```
var mystery = function (a, b) {
 var r = [];
  for (var i = 0; i < a.length; i += 1) {
   r.push( b(a[i]) );
  return r;
var result = mystery([1, 2, 3, 4, 5], function(x) {
 return x * x;
});
console.log(result);
```

Pair Exercise

- 1. Make a webpage that prompts the user to enter a list of numbers (e.g. "1 5 27 33"), and alerts the sum of those numbers (e.g. 66).
- 2. [Challenge] Make a webpage that prompts the user to enter a list of numbers (e.g. "1 5 27 33"), and alerts the sum, product, AND average of those numbers.

jouery Review

What does it do?

```
$('#new-post').on('submit', function(event) {
  var firstName = $(this).children('input[name="first_name"]').val();
  if (firstName.length > 0) {
    event.preventDefault();
    alert("Hello, " + firstName);
  }
});
```

Pair Exercise

In the jquery lab.

- 1. When a container is clicked, add the "highlight" class to all the shapes in that container.
- 2. [Challenge] When "button 1" is clicked, make all of the shapes "small". When "button 2" is clicked, make all the shapes "large".
- 3. [Challenge] When the shapes change size, make them transition smoothly using CSS animations.

The Javascript World

Frameworks

- Bootstrap
- Foundation
- Backbone
- React
- Angular
- Ember

Bootstrap Components

- Tabs
- Alerts
- Carousel
- Tooltip
- Modal
- •
- All jQuery based

Libraries

- jQuery UI: advanced UI components
- chosen: an awesome select tag replacement
- pickadate.js: user-friendly date picker
- animate.css: gaudy animations

Libraries

- hopscotch: tours
- font-awesome: all the icons you ever wanted
- chartjs.org: awesome free charts library
- highcharts: awesome paid charts library

Libraries

- codemirror + ace: Code editors
- mousetrap: Easy keyboard shortcut events
- underscore: Adds missing functionality to Javascript
- Google Maps: Easier than you think
- turbolinks: Faster Rails apps

The Browser

- Canvas
- Web Audio and Video
- Chrome Plugins
- WebGL and three.js

Robotics

• johnny five: arduino, raspberry pi, etc.

Native Development

- Scripting OSX
- iOS and Android with React Native

Javascript as a Platform

- Coffeescript
- Typescript
- Dart
- Clojurescript
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