

Optimizing jQuery And Other Front-End Trinkets



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CURRENTLY:

Co-founder & Creative Engineer @ The Young Astronauts

PREVIOUSLY:

Partner & Dev @ Playground Inc.

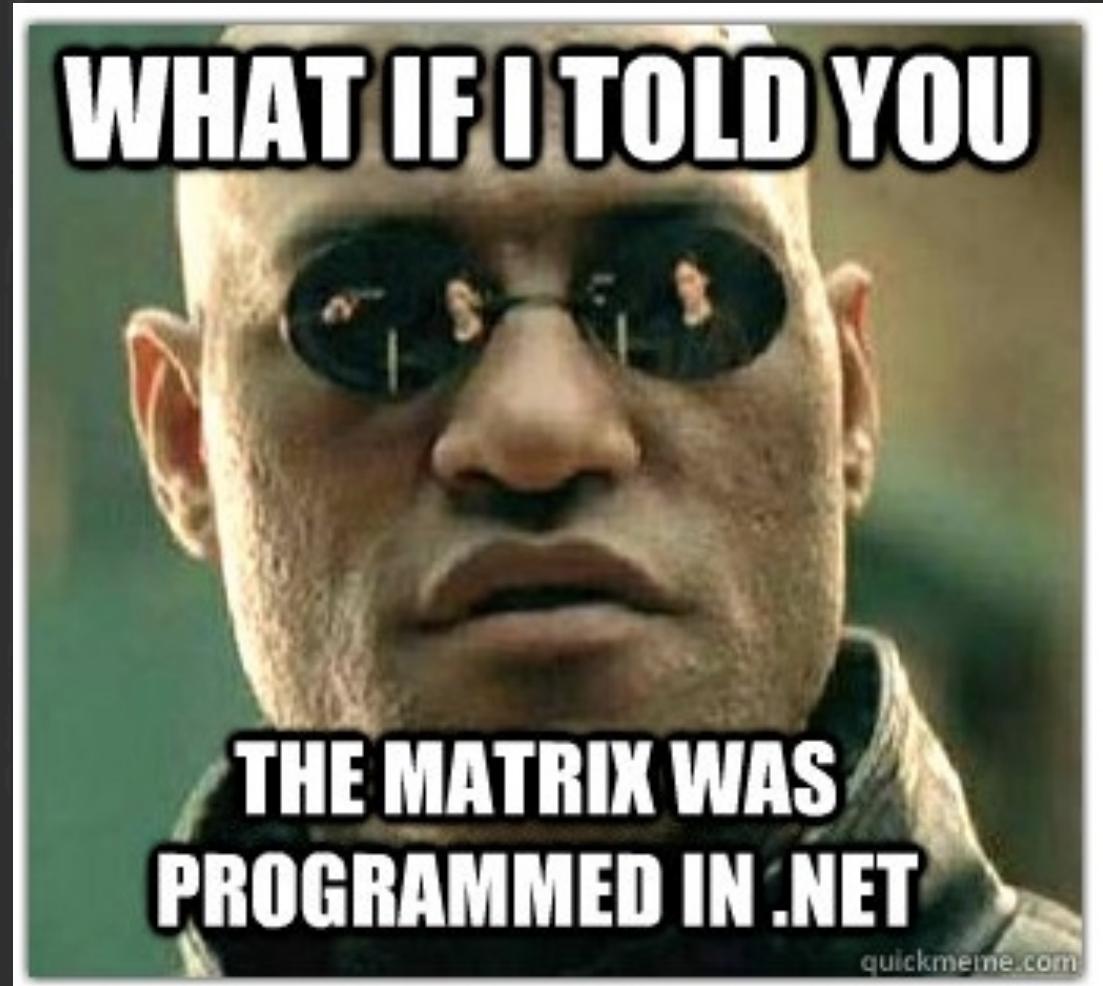
Dinosaur Factory

Ryerson Student + RUtv



My Scripting Experience

jQuery.toronto()



- * HTML/CSS
- * JavaScript + jQuery
- * PHP + MySQL
- * NodeJS + MongoDB
- * Python + Django + PostgreSQL
- * C# + Unity3D
- * Objective C + iOS SDK



How I Prepared for this Talk

jQuery.toronto()

```
1 App = {};
2 App.SpeakAtjQueryT0 = function(mood) {
3
4     switch(mood.toLowerCase()){
5         case "nervous":
6         case "scared":
7             Audience.PictureNaked();
8             break;
9         case "!prepared":
10            Reddit.Procrastinate(1);
11            break;
12         case "excited":
13            Friends.Rehearse(30);
14            break;
15         default:
16             App.Share();
17             break;
18     }
19
20     App.CreateSlides(10);
21     App.FindLocation('81 St. Mary Street', 'Toronto', 'ON', 'M5S1J4', 'Alumni Hall 100');
22     App.Arrive();
23
24 }
25
26 $(document).ready(function(){
27
28     myMood = window.location.hash.replace('#', '');
29
30     if(App.currentDate == '03-03-2013'){
31         App.SpeakAtjQueryT0(myMood);
32     }
33 }
```



The Pros

Selecting Dom Objects

Ajax

Animation

Plugins

Callbacks

Flexibility

Community / Docs

CDN Hosting

The Cons

There were **no** cons. This was perfect. This solved everything.



* jQuery is an intuitive and simple interface, welcoming to new front-end developers. Being so simple, it's easy to make something work but if you don't know what's going on at the lower javascript level its very easy to hack something *inefficient* together.



Multi-Selector Callbacks

```
$(".item").fadeOut(function(){
    //log to console
    console.log("fadeout completed");

    //tell the server the fade out is complete
    //for some strange reason....
    App.sendAjaxRequest();

});
```



Scope

```
var MyFunction = function(){
    var dog = "Doggy"; //scoped within function
    cat = "Kitty";     //works, but makes variable global
}
```



Sizzle

```
var FunctionThatIsCalledAllTheTime = function(w){  
  
    $(".foo").addClass("active");  
    $(".bar").css("width", w + "px");  
  
}  
  
//instead:  
  
var App = {};  
  
App.Cache = function(){  
  
    App.dom = {};  
    App.dom.foo = $('.foo');  
    App.dom.bar = $('.bar');  
  
};  
  
var FunctionThatIsCalledAllTheTime = function(w){  
  
    App.dom.foo.addClass("active");  
    App.dom.bar.css("width", w + "px");  
  
}
```



Declaring Functions

```
loadSomePage = function(hash){  
    // Never do this!  
}  
  
function loadSomePage(hash){  
    // This is okay....  
}  
  
var loadSomePage = function(hash){  
    //This is great  
}  
  
App.loadSomePage = function(hash){  
    //This is namespaced and best  
}  
  
App.loadSomePage = function loadSomePage(hash){  
    //This option can be useful because it  
    //provides a little more context when debugging.  
}
```



Some JavaScript Gotchas

jQuery.toronto()

“this”

```
var myFunction = function() {  
    console.log(this);  
};  
  
var someObject = {};  
someObject.myFunction = myFunction;  
  
//logs the object as expected  
someObject.myFunction();  
  
//logs the window?  
myFunction();
```



Adding vs. Subtracting Strings

```
var funnyFunction = function(add){  
    if(add){  
        return '5' + 3; //returns "53"  
    } else {  
        return '5' - 3; //returns 2  
    }  
}
```



My App Structure

jQuery.toronto()

```
var App = {};
App.Init = function() {
};

App.Cache = function() {
};

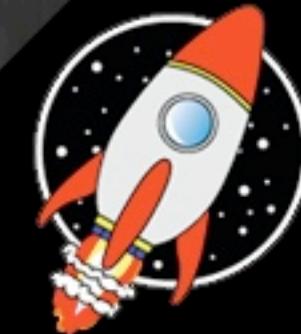
App.BindListeners = function(){
};

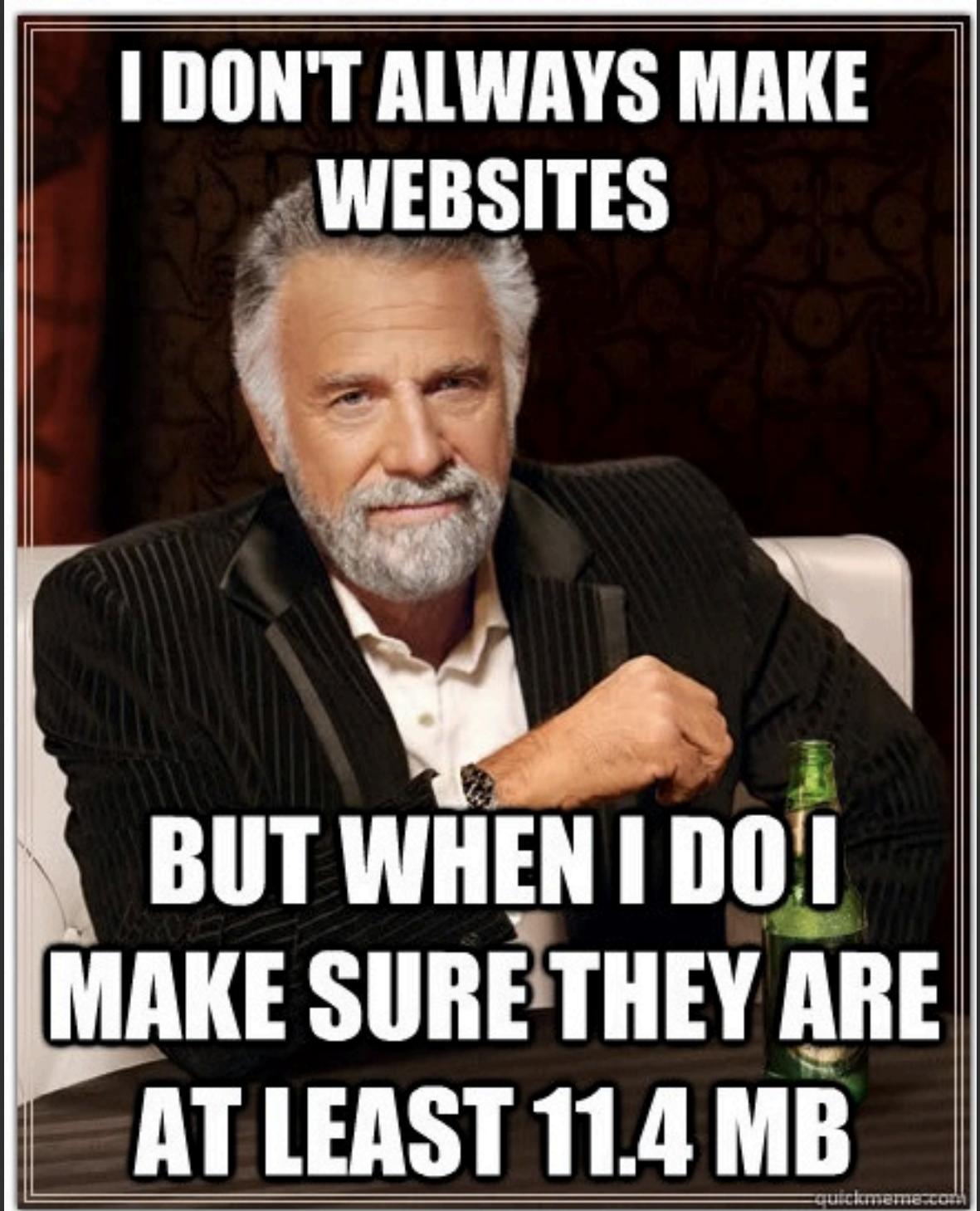
// Interactions
// Classes
// On Load
$(document).ready(function(){
    App.Init();
});
/* UTILITY FUNCTIONS */
var util = {};
```



Let's look at some examples!

- Basic Site
- Kropr
- Playfight Website
- 2D Slider





- Basic Site
- Kropr
- Playfight Website
- 2D Slider
- Space Invaders (if time)



Tips and Tricks

jQuery.toronto()

- ReCSS / Less + Watch
- Testing Mobile (Edge / Simulator / Virtual Host)
- Bash Scripts /.profile / command line

- color coding / aliases / custom prompt, git integration
- buildsite script
- python -m SimpleHTTPServer 8008
- ctrl+a shortcut
- bc / python calc
- localtunnel
- retina batch script with imagemagick

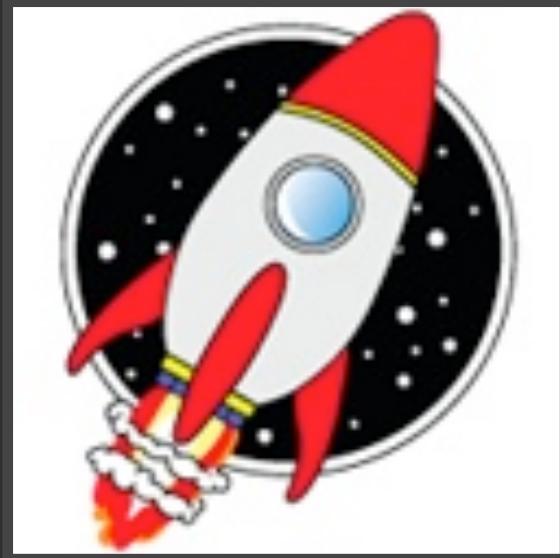


In Conclusion...

jQuery.toronto()



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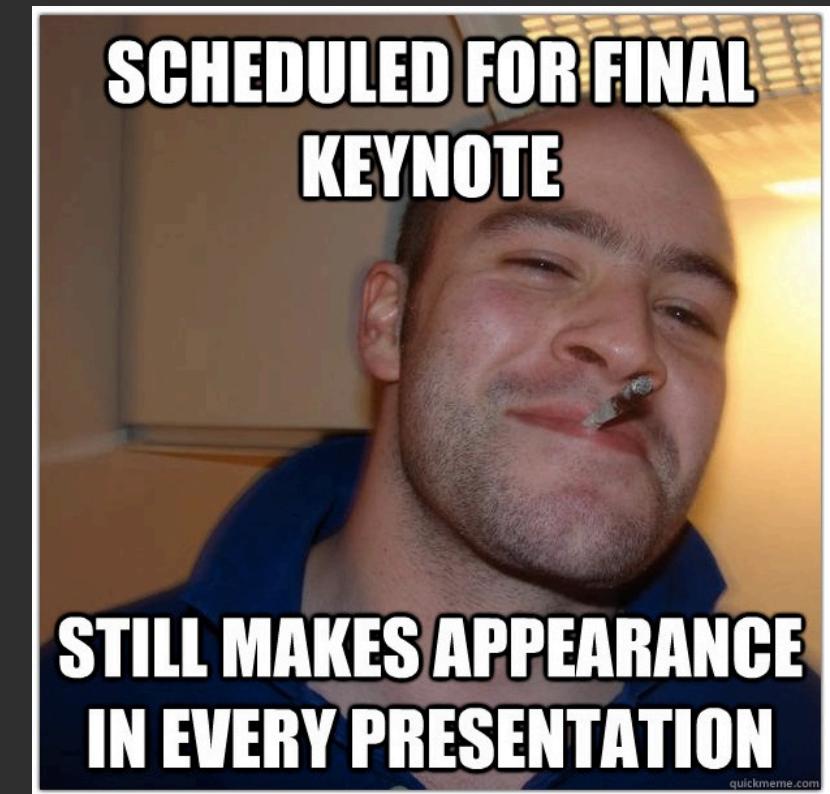
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And finally my Paul Irish Contribution

jQuery.toronto()



Paul Irish Inception

Paul doing a presentation about him doing a presentation on a presentation screen, on *this* presentation screen, while (hopefully) he is watching my presentation.

