

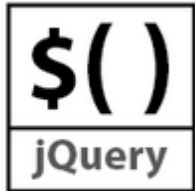
jQuery-free JavaScript

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pluralsight 
hardcore developer training

Prerequisites



jQuery Fundamentals

This course will guide you through the features of the jQuery "write less, do more" library

Authored by: [Dan Wahlin](#)
Duration: 5h 32m
Level: Beginner
Released: 2/21/2011



JavaScript Fundamentals

Everything a beginner needs to get started programming with JavaScript

Authored by: [Liam McLennan](#)
Duration: 2h 53m
Level: Beginner
Released: 1/25/2011

**When to Use
jQuery?**

**Native
Selectors**

**Native DOM
Manipulation**

Native Events

Native Ajax

**Native
Utilities**

**Native
Animation**

**Native
Plugins**

Sample Application

Tech.Pro Blog

HTML5

JavaScript

CSS

Mobile

What I Learned This Week



Five Helpful Tips When Using
#Requirejs #JavaScript
JavaScript, Require.js



7 Readworthy Links For This
Weekend #3 #JavaScript
#SoftwareEngineering
#Scalability

JavaScript, Software Engineering,
Scalability



7 Useful #Mobile #HTML,
#CSS, and #JavaScript
Snippets

Mobile, CSS, JavaScript, HTML5

Five Helpful Tips When Using #Requirejs #JavaScript

[RequireJS](#) – a "JavaScript file and module loader" – is a powerful way to organize, manage, build and load JavaScript in your web application. I've been using RequireJS for a couple of years, and while it's admittedly difficult to limit myself to *only* five, these five tips are things I really wished I'd known sooner rather than later. Heads up – I'm assuming you have *some* knowledge of RequireJS, or at least are aware of what [AMD](#), [CommonJS](#) and script loaders are. The [RequireJS](#) site is a great resource to get familiar with both the "why" as well as the API.

In this post, we're going to focus on using RequireJS itself, and not [r.js](#) (the optimizer). (I plan to write a follow up post on using [r.js](#).)

1.) Know Your Options When Defining Modules

Most people using RequireJS are familiar with this approach of defining a module:

```
define(["dependencyA", "dependencyB"], function(depA, depB) {  
    /* module code here using depA and depB */  
    return myModule;  
})
```

98% of the time, I use the above approach. However, you have some other choices, depending on your needs. Have a module that takes no dependencies? If so, you can do this:

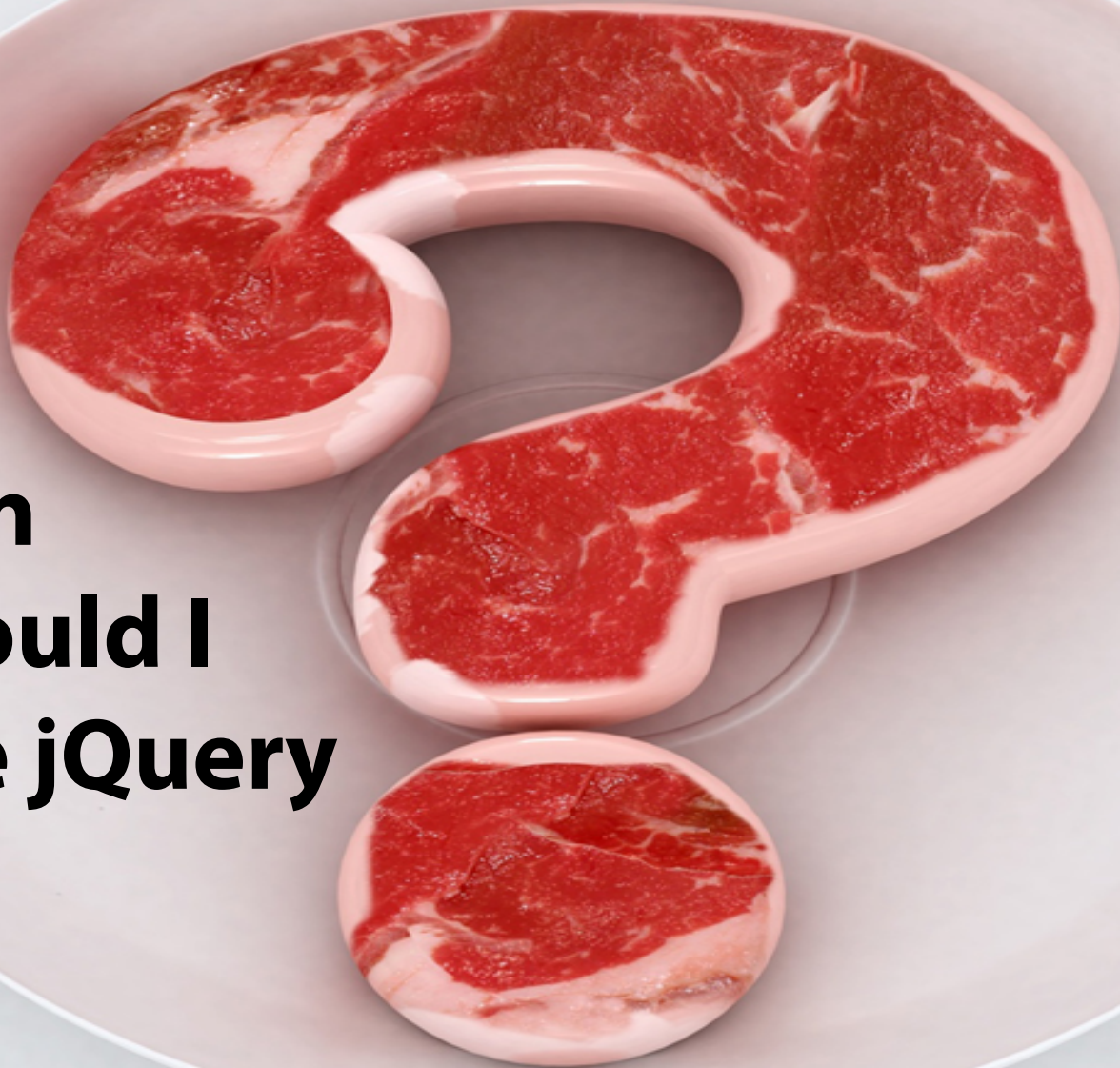
```
define({  
    someProp: "Oooh, how interesting!",  
    someMethod: function() {  
        // do interesting work  
        return compellingValue;  
    }  
});
```

jQuery-less JavaScript

When to Use jQuery?



**When
Should I
Use jQuery**



When Should I Use jQuery?

- Do you need a quick prototype or proof of concept?
- Do you use jQuery plugins?
 - jQuery Plugins, jQuery UI Widgets, Twitter Bootstrap, etc...
- Do you use a Library or Framework that depends on jQuery?
 - Backbone.js, Ember.js, etc...
- Do any of your browsers not "Cut the Mustard"?
<http://manor.im/cutting-the-mustard>

```
if ( 'querySelector' in document
    && 'localStorage' in window
    && 'addEventListener' in window) {
    // bootstrap the javascript application
}
```

When Should I Use jQuery?

- **Features Not Supported Natively in <=IE8**
 - document.querySelector (IE8 limited to CSS 2.1 selectors)
 - addEventListener (IE9+)
 - dispatchEvent (IE9+)
 - XMLHttpRequest2, FormData, etc...
 - JSON.parse (IE8+)
 - Matches (IE9+)
 - ECMAScript 5 (bind, forEach, filter, map, reduce, etc... IE9+)
 - classList (IE10+)
 - CSS3 animations (IE9+)



Custom Builds of jQuery

Custom Builds of jQuery

- **As of jQuery 1.8 You Can Create Custom Builds**
 - jQuery doesn't provide pre-built versions for you
- **How to Make a Custom Build of jQuery**
 - Pull the source from GitHub and build your own
 - Unofficial jQuery Builder website <http://manor.im/jquery-builder>

Building jQuery from Source

- > `git clone git://github.com/jquery/jquery.git`
- > `npm install -g grunt-cli bower`
- > `grunt -version && bower -version`
- > `cd jquery && npm install`
- > `grunt`

jQuery Modules

- **ajax**
 - ajax/xhr
 - ajax/script
 - ajax/jsonp
- **css**
- **deprecated**
- **dimensions**
- **effects**
- **event**
 - event/alias
- **offset**
- **wrap**
- **exports/amd**
- **core/ready**
- **deferred**
- **support**
- **sizzle**

Building jQuery from Source

> grunt

8994 LOC

> grunt custom:-ajax,-css,-deprecated,-
dimensions,-effects,-event/alias,-
offset,-wrap,-sizzle,-exports/amd

4376 LOC

> git checkout tags/2.0.3

> npm install

> grunt

> grunt custom:-ajax,-css,-deprecated,-dimensions,-
effects,-event-alias,-offset,-wrap,-sizzle

Unofficial jQuery Builder

jQuery Builder

jQuery Builder lets you easily build a custom version of jQuery that just includes the modules you need.

Choose which modules you'd like to include in your custom build:

Options

Version:

1.10.2



☐ Minify

Modules

All

None

- ☒ ajax
- ☒ css
- ☒ deprecated (\$.uaMatch, \$.browser, \$.sub)
- ☒ dimensions
- ☒ effects
- ☒ event-alias
- ☒ offset
- ☒ wrap

Build

Filesize: **266.80 Kb** / Gzip: **79.20 Kb**

Build

or

```
curl https://raw.github.com/jgallen23/jquery-builder/0.5.0/dist/1.10.2/jquery.js > jquery.js
```

Tweet 625

Fork me on GitHub

CLI

You can also build a custom version of jQuery using the node.js cli tool.

Install

```
npm install -g jquery-builder
```

Usage

```
jquery-builder --exclude ajax,css -m
```

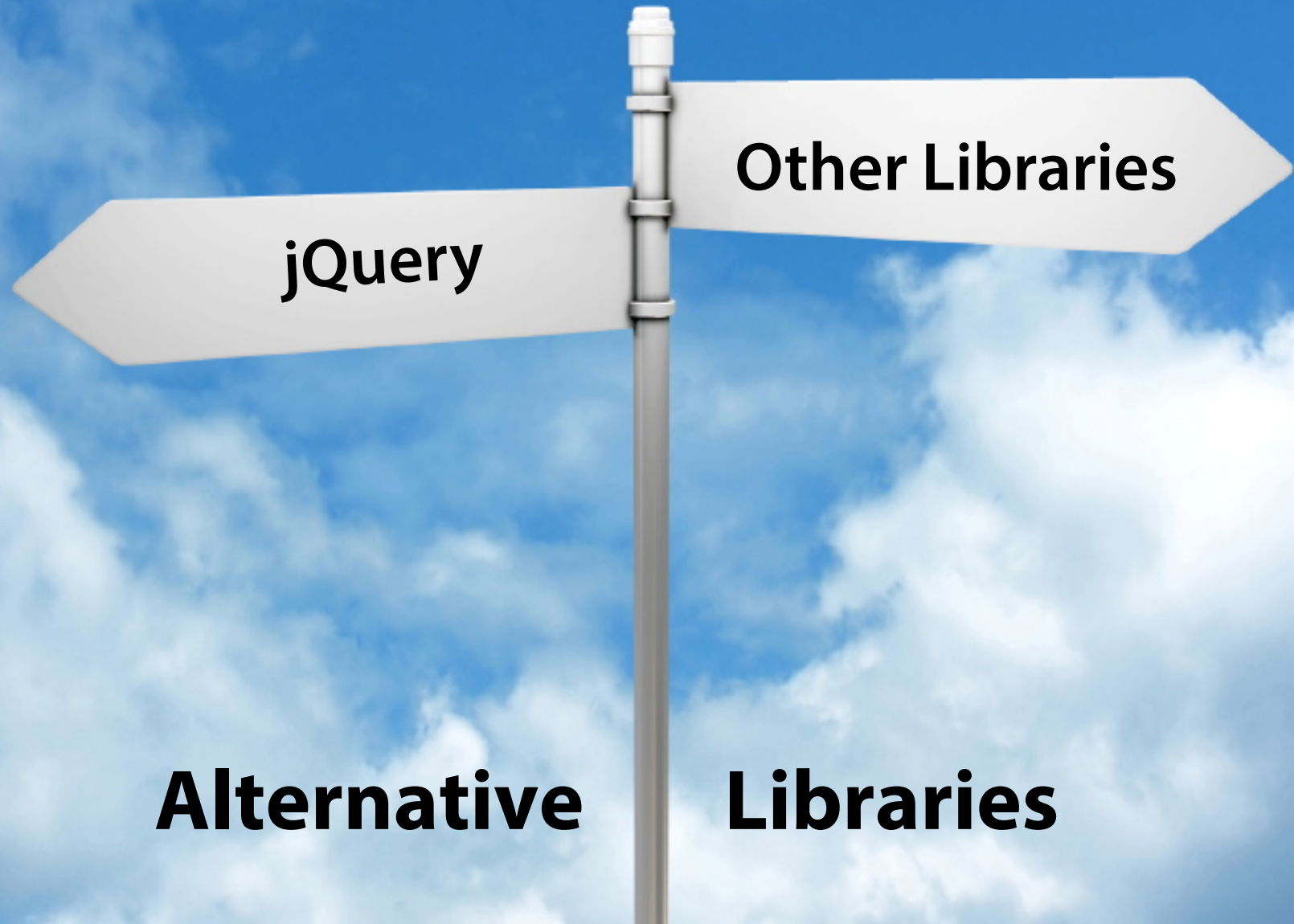
Usage Options

```
jquery-builder --help
```

Todo

- Show filesize for each module.
- Remember selected modules

<http://manor.im/jquery-builder>



jQuery

Other Libraries

Alternative

Libraries

Alternative Libraries

- **Zepto.js** - <http://zeptojs.com>
 - Thomas Fuchs
 - v1.0 – 9.7k gzipped & Largely jQuery-compatible API
 - Doesn't support IE10 or below
- **Min.js** - <https://github.com/remy/min.js>
 - Remy Sharp
 - Very minimalistic & jQuery-like API
 - ~60 lines of code with comments
- **Dolla Experiment** - <http://manor.im/dolla-experiment>
 - Burke Holland & Leland Richardson
 - Small recreation of jQuery API
 - Good Learning resource

DEMO

- **Show Cut the Mustard website**
- **Show CanIUse**
 - addEventListener
 - querySelectorAll
 - Matches
 - classList
 - CSS Animations
- **Show How to Build Custom Version of jQuery**
 - Grunt
 - Show GitHub page w/ instructions
 - Walk through process
 - Website
 - Build version from website
- **Show Zepto.js and Min.js**

Summary

- Does your website Cut the Mustard (IE9+, Chrome, Firefox, etc...)?
- If you need jQuery then what about a custom build?
- If that isn't small enough, what about Zepto.js or Min.js?