



Using JavaScript Libraries, or: There's a Library for That!

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Summit Europe**

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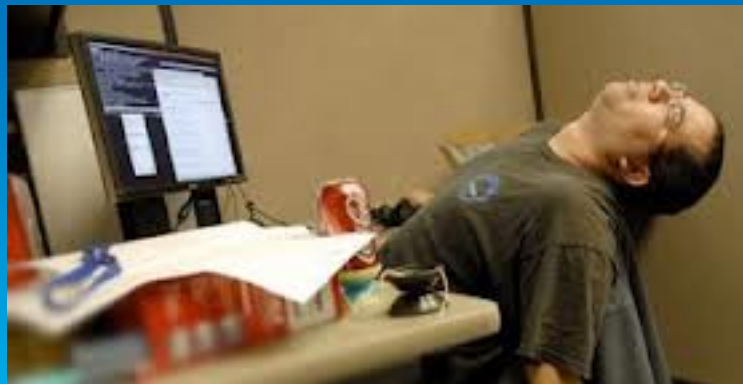
Web Development is Fraught With Peril!!

- Browser Support (I'm looking at you, IE)
- HTML5/CSS3
- Code organization and re-use



Why use JavaScript libraries?

- Saves time
- Saves work
- Saves hair loss (a.k.a. cross-browser support)
- Saves money
- Because you're lazy efficient



What can JavaScript libraries really do?

- **User Interface**
- **Code design**
- **Code execution**
- **Code testing**
- **Code deployment**

JavaScript Libraries Can Make Your Day

- **Framework Libraries**
- **UI Libraries**
- **Loader Libraries**
- **Visualization Libraries**
- **Utility Libraries**
- **Mobile Libraries**
- **Testing Libraries**
- **Build Your Own Libraries(!!)**



Framework Libraries

- Dojo
- Backbone
- JavascriptMVC
- Node.js*
- AngularJS
- Knockout
- Rialto
- SproutCore
- Batman

*special case

UI Libraries

- **JQuery UI**
- **Dijit – Dojo**
- **YUI**
- **Ext**
- **Bootstrap**
- **Script.aculo.us**
- **Kendo**

Loader Libraries

- **Modernizr**
- **Control**
- **YepNope**
- **Curl**
- **Require**
- **Load**

Visualization Libraries

- **D3.js**
- **Three.js**
- **HighCharts**
- **InfoVis**
- **ProtoVis**
- **Raphael**

Utility Libraries

- Underscore
- Modernizr
- JSON2
- Respond
- Bootstrap
- Moment
- Etc. Etc. Etc.
- See Github for more than you bargained for

Using Libraries



Mobile Libraries

- **Wink**
- **jQuery Mobile**
- **Sencha Touch**
- **Dojox Mobile**
- **Zurb Foundation**
- **Less Framework 4**
- **ResponsiveJS**

- **PhoneGap**
- **Titanium**

Mobile Libraries

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Testing Libraries

- Not a big area quite yet
- JSHint, JSLint
 - Not technically a library, but indispensable
- Qunit - JQuery
- Doh – Dojo
- YUI Test
- jsTestDriver

JSHint



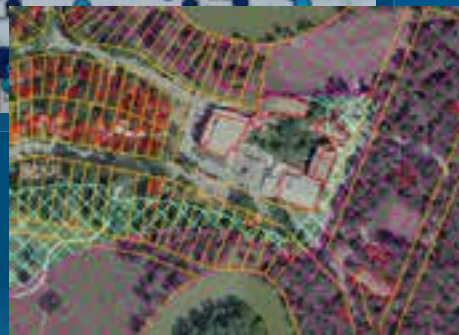
Build Your Own Libraries (!!)

- OO style code re-use for JavaScript
- Javascript API – `dojo.declare()`
- `Clusters.js`
- `Heatmap.js`

Custom Widgets in Dojo

- Directions widget
- Routing widget

Build Your Own Libraries



Imagine...

- Efficient code loading!!
- Quick turnaround on major web projects!!
- Fast prototyping of desired functionality!!
- No more cross-browser nightmares!!
- Being a great coder without looking like this guy.



Thanks!!

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Understanding our world.