

Yahoo's PureCSS & jQuery plugins

11 November 2013

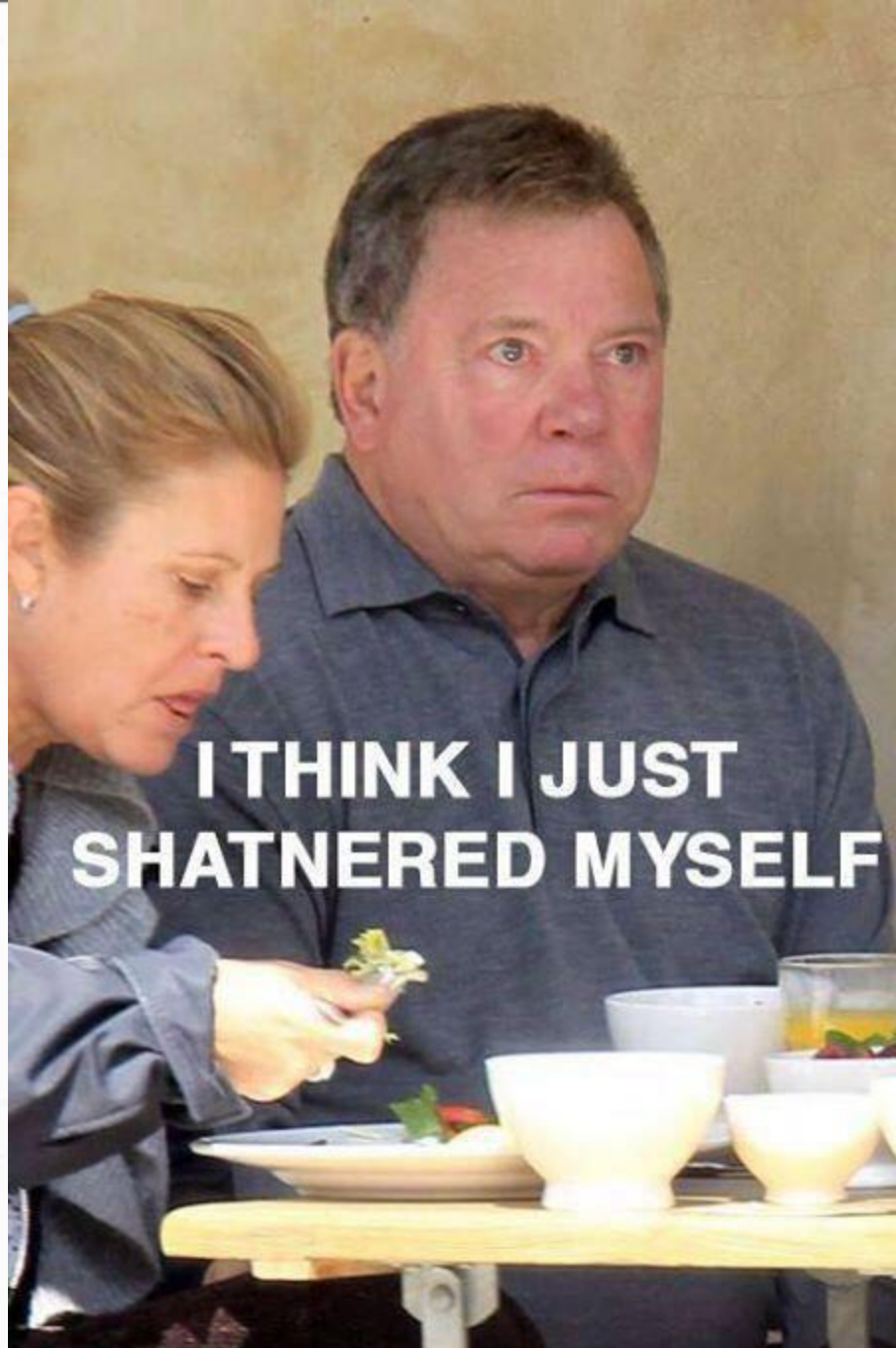


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My life

- Chief architect at nVisionIT
- Founder of JSinSA ← awesome javascript conference
- Founder of @FindFreeWiFi and others
- Big javascript fan ...





**I THINK I JUST
SHATNERED MYSELF**

Agenda

- Pure CSS
- jQuery plug-ins
- Developer quiz with prizes



Why do we need HTML frameworks?

- `<html> </html>`
- Hand-crafted
- Time to market
 - POC
- Common framework for the team
- Outsourced effort
- Responsive
- Prettiness
- HTML5



The argument against HTML frameworks

- My clients want a unique look/feel
- I want to write the HTML myself
- It'll take too long to learn another framework
- Does this mean I don't have to know CSS/HTML and can just use the Clipboard Pattern?
- But, what about the [insert project from 5 years ago] framework



The argument against HTML frameworks

- My clients want a unique look/feel
 - No they don't (hint: your client's don't read Hacker News)
 - The frameworks are extensible / themeable
- I want to write the HTML myself
 - You can, just not from scratch `<html> </html>`
- It'll take too long to learn another framework
 - Don't be lazy
- Does this mean I don't have to know CSS/HTML and can just use the Clipboard Pattern?
 - No
- But, what about the [insert project from 5 years ago] framework
 - Things change. Re-evaluate



PureCSS

- From Yahoo!
- "A set of small, responsive CSS modules that you can use in every web project"
- Elegant, simple, lightweight, extensible
- Built on normalize.css
- Responsive



PureCSS components

- Base
- Grids
- Forms
- Buttons
- Tables
- Menus

Base 1.2KB	Grids 0.9KB	Forms 1.4KB
Buttons 0.8KB	Tables 0.5KB	Menus 1.2KB



Pure grids

```
<div class="pure-g">  
  
  <div class="pure-u-1-3"> ... </div>  
  <div class="pure-u-1-3"> ... </div>  
  <div class="pure-u-1-3"> ... </div>  
  
</div>
```

```
<div class="pure-g-r">  
  
  <div class="pure-u-1-3"> ... </div>  
  <div class="pure-u-1-3"> ... </div>  
  <div class="pure-u-1-3"> ... </div>  
  
</div>
```



Pure forms

```
<form class="pure-form pure-form-aligned">
  <fieldset>
    <div class="pure-control-group">
      <label for="name">Username</label>
      <input id="name" type="text" placeholder="Username">
    </div>

    <div class="pure-control-group">
      <label for="password">Password</label>
      <input id="password" type="password" placeholder="Password">
    </div>

    <div class="pure-control-group">
      <label for="email">Email Address</label>
      <input id="email" type="email" placeholder="Email Address">
    </div>

    <div class="pure-control-group">
      <label for="foo">Supercalifragilistic Label</label>
      <input id="foo" type="text" placeholder="Enter something here...">
    </div>

    <div class="pure-controls">
      <label for="cb" class="pure-checkbox">
        <input id="cb" type="checkbox"> I've read the terms and conditions
      </label>

      <button type="submit" class="pure-button pure-button-primary">Submit</button>
    </div>
  </fieldset>
</form>
```

Username	<input type="text" value="Username"/>
Password	<input type="password" value="Password"/>
Email Address	<input type="email" value="Email Address"/>
Supercalifragilistic Label	<input type="text" value="Enter something here..."/>
<input type="checkbox"/> I've read the terms and conditions	
<input type="submit" value="Submit"/>	

Pure buttons

A Primary Button

A Primary Button

```
<a class="pure-button pure-button-primary" href="#">A Primary Button</a>  
<button class="pure-button pure-button-primary">A Primary Button</button>
```



Pure tables

```
<table class="pure-table">
  <thead>
    <tr>
      <th>#</th>
      <th>Make</th>
      <th>Model</th>
      <th>Year</th>
    </tr>
  </thead>

  <tbody>
    <tr>
      <td>1</td>
      <td>Honda</td>
      <td>Accord</td>
      <td>2009</td>
    </tr>

    <tr>
      <td>2</td>
      <td>Toyota</td>
      <td>Camry</td>
      <td>2012</td>
    </tr>

    <tr>
      <td>3</td>
      <td>Hyundai</td>
      <td>Elantra</td>
      <td>2010</td>
    </tr>
  </tbody>
</table>
```

#	Make	Model	Year
1	Honda	Accord	2009
2	Toyota	Camry	2012
3	Hyundai	Elantra	2010



Pure menus

SITE TITLE Home Flickr Messenger Sports Finance

```
<div class="pure-menu pure-menu-open pure-menu-horizontal">
  <a href="#" class="pure-menu-heading">Site Title</a>

  <ul>
    <li class="pure-menu-selected"><a href="#">Home</a></li>
    <li><a href="#">Flickr</a></li>
    <li><a href="#">Messenger</a></li>
    <li><a href="#">Sports</a></li>
    <li><a href="#">Finance</a></li>
  </ul>
</div>
```

- Optional YUI lib



Pure menus



```
<ul class="pure-paginator">
  <li><a class="pure-button prev" href="#">&#171;</a></li>
  <li><a class="pure-button" href="#">1</a></li>
  <li><a class="pure-button pure-button-active" href="#">2</a></li>
  <li><a class="pure-button" href="#">3</a></li>
  <li><a class="pure-button" href="#">4</a></li>
  <li><a class="pure-button" href="#">5</a></li>
  <li><a class="pure-button next" href="#">&#187;</a></li>
</ul>
```



Pure vs Bootstrap

- Different use case
- Bootstrap = complete UX package + js
- PureCSS = minimalist building blocks + BYOJS
- Bootstrap:

Pros	Cons
Complete solution	Difficult to override
Available themes	Big – and you may not need it all
Super easy & complete	IE 7 not officially supported

- Pure:

Pros	Cons
Easy to override / extend	Version 0.3
Lightweight	Big – and you may not need it all
IE 7+	Not a complete web site template

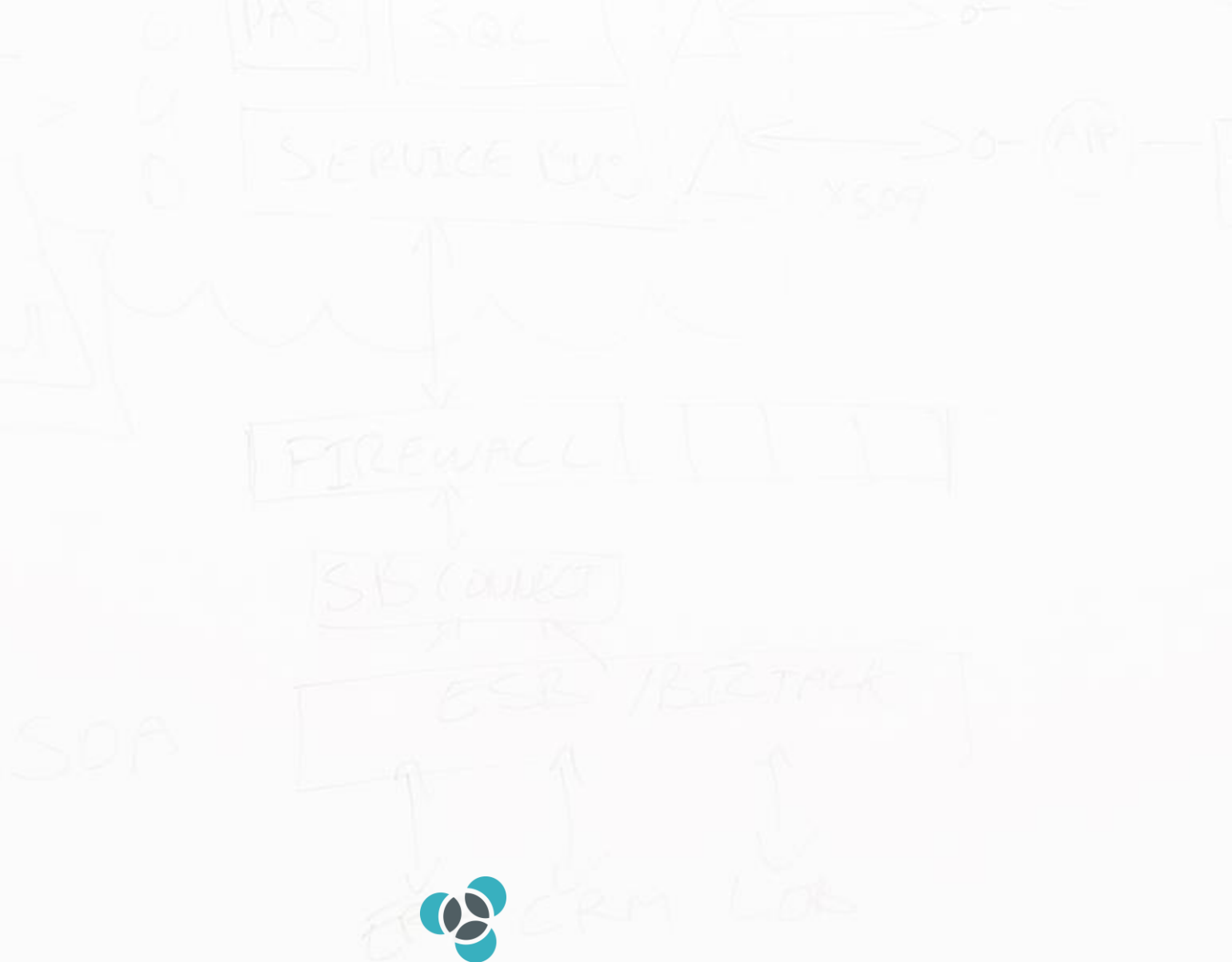
Pure vs Bootstrap sizes

Pure	Bootstrap V3
19 KB	101 KB
1662 lines	7098 lines

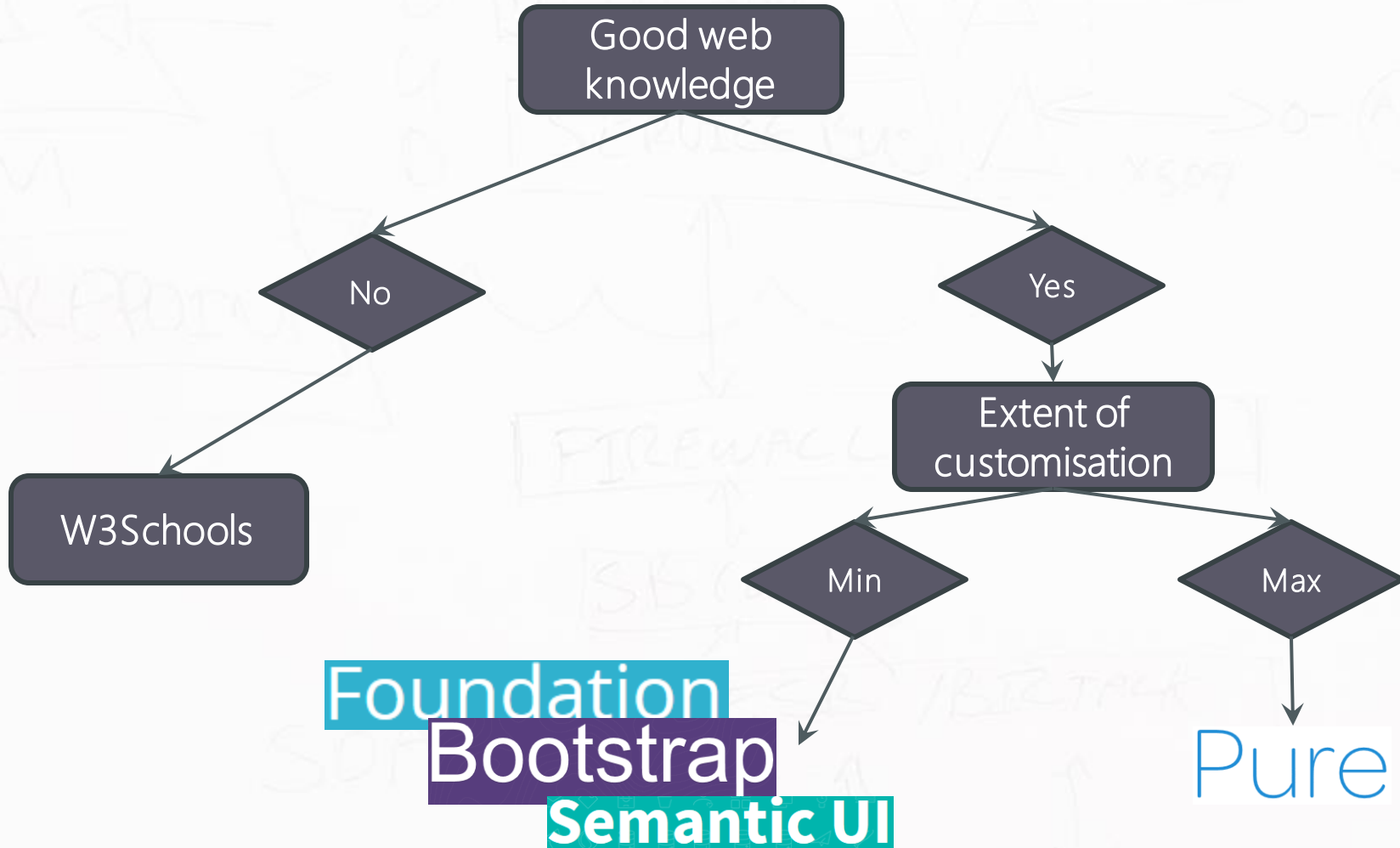


Pure

- Demos



How do you choose?



Regardless of what you choose

- Know the fundamentals
- Know the framework
- Don't include bits you don't need know
 - Don't use it just because it's there



Links of interest

- Pure
 - <http://purecss.io>
 - <http://yui.github.io/skinbuilder/?mode=pure>
- Yahoo YUI
 - <http://yuilibrary.com>
- Bootstrap themes
 - <https://wrapbootstrap.com>
- Other options:
 - <http://topcoat.io>
 - <http://semantic-ui.com>
 - <http://foundation.zurb.com/>



Part 2 : jQuery plugins



Plug-in best practices

- Don't pollute the fn namespace
 - 1 plug-in : 1 function
- Provide *options*
- Exposing bits
- Keeping bits private



Demos

- Simple walkthroughs
- Production (i.e. complex plug in) walkthrough

