

Bootstrap: Got files & software?



- ☞ Download files:
github.com/jen4web/bootstrap3-fullday
- ☞ Can't get online? Find Hulk or Thor and copy files to computer (they are the same)
- ☞ Unzip files on desktop – will be in a folder called **bootstrap-workshop**
- ☞ Software: need editor. I'm using SublimeText 3, sublimetext.com
- ☞ Also need Koala, a compiler:
www.koala-app.com

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JEN KRAMER
TECHNOLOGY INSTRUCTOR

Up & Running with Bootstrap



Jen Kramer • HTML5 Developer's Conference • October 21, 2015

It's all about mobile



Need to convince the boss?

It's all about mobile



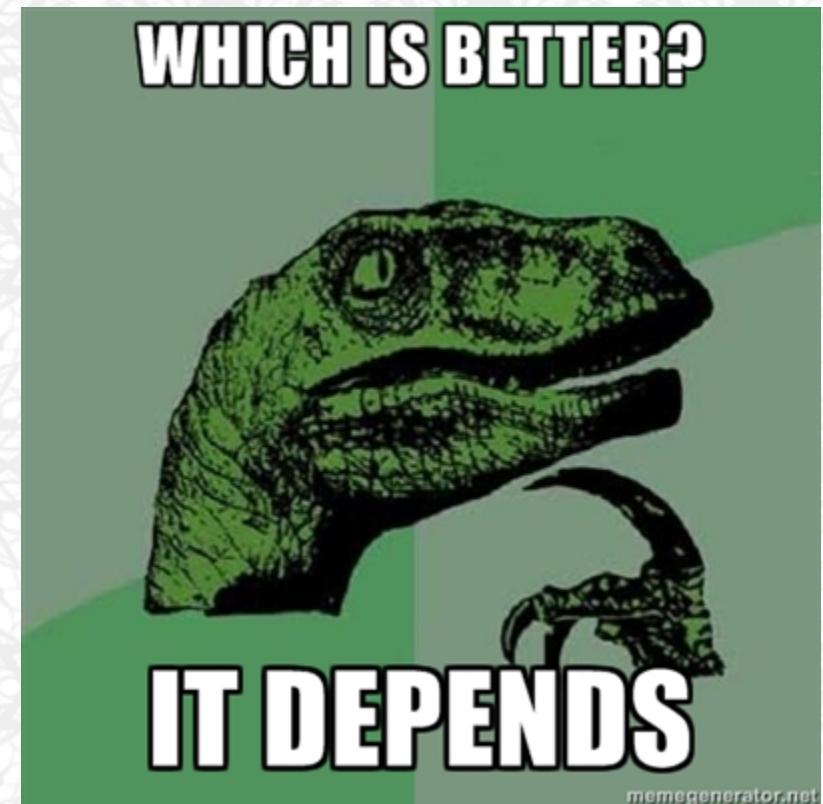
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Two (big) approaches to mobile

- ❖ Build a separate mobile-compatible website or mobile app (or both)
- ❖ Responsive Design
- ❖ [A comparison of methods for building mobile-optimized websites](#)



Responsive Design

Defined by three characteristics

- Flexible grid-based layout
- Images that resize
- Media queries (CSS3)

[www.alistapart.com/articles/responsive-web-](http://www.alistapart.com/articles/responsive-web-design)



MAY 25, 2010

Responsive Web Design

by ETHAN MARCOTTE

Published in: CSS, Layout, User Interface Design, Mobile, Mobile Design, Mobile Development

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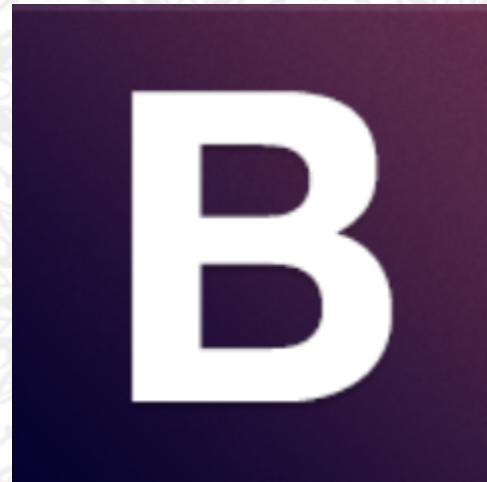
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What is Bootstrap?

- ❖ Twitter Bootstrap is a responsive design framework for building web sites and web applications.
- ❖ It is the most popular project in [GitHub](#) and is used by [NASA](#) and [MSNBC](#) among others.

[wikipedia.org/wiki/Twitter_Bootstrap](https://en.wikipedia.org/wiki/Twitter_Bootstrap)



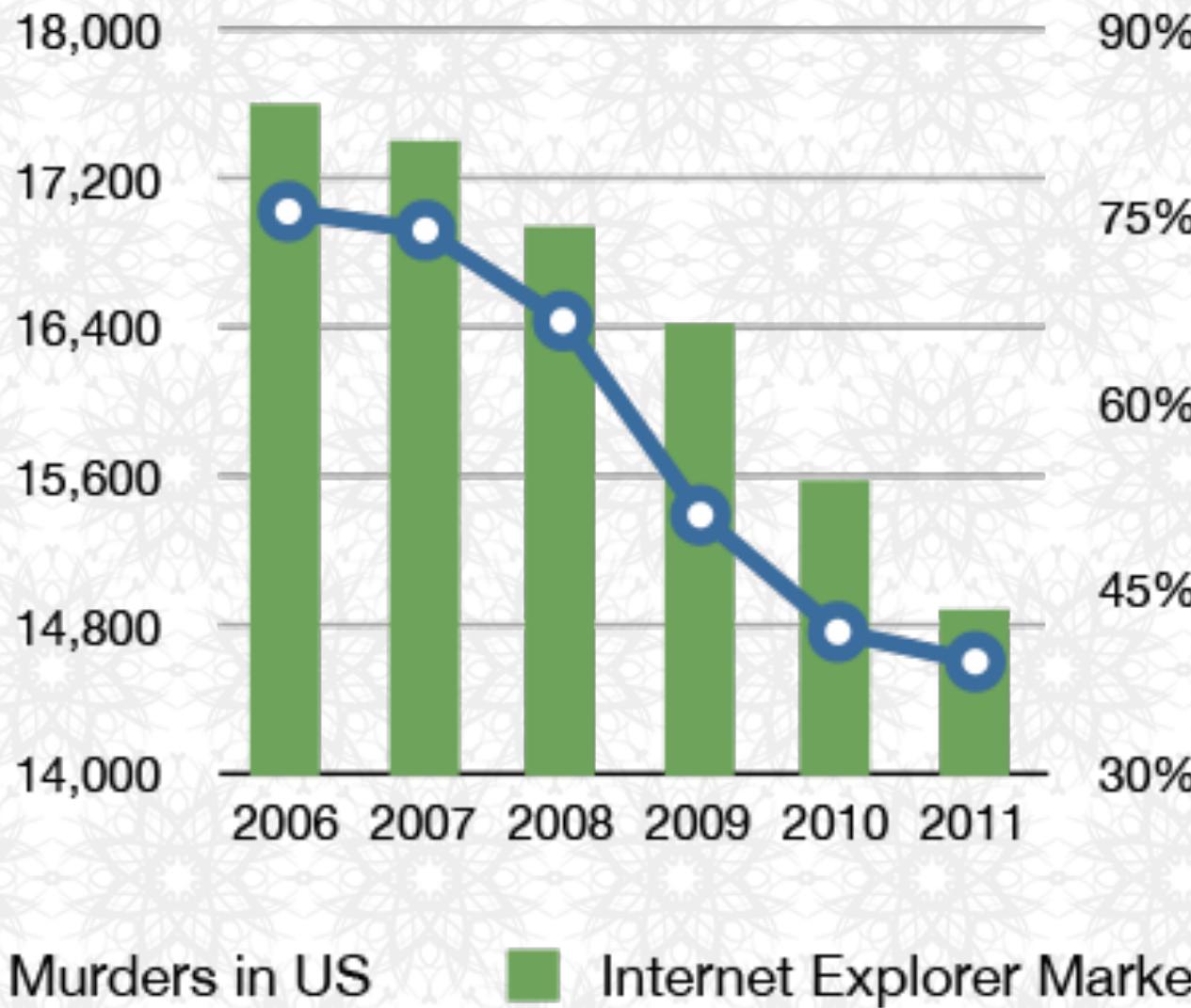
What is Bootstrap 3?

- ∞ Mobile-first approach
- ∞ Single (responsive) grid system, including grid sizing for <768 px, >768 px, >992 px, and >1200 px
- ∞ Dropping support for IE7 and FF 3.6 (and removing hacks to support them).
- ∞ Now supporting IE 8 and higher (with some modifications)
- ∞ Font icons, dropping old PNG icons
- ∞ Redesigned the Carousel, add Panels and List Groups

What is Bootstrap 4?

- ∞ First alpha as of Oct 10: <http://v4-alpha.getbootstrap.com/>
- ∞ Single (responsive) grid system, including grid sizing for <34em, >=34em, >=48em, >=62em and >=75em
- ∞ Dropping support for IE8. Some IE9 features not supported.
- ∞ No more icons
- ∞ Dropped panels, wells, and thumbnails in favor of cards

Internet Explorer vs Murder Rate



● Murders in US

■ Internet Explorer Market Share

Bootstrap competitors



getbootstrap.com



foundation.zurb.com

[And here are 20 more](#)

[Bootstrap and Foundation compared](#)

Who uses Bootstrap?

- ∞ Joomla (open source CMS) integrated Bootstrap into version 3.
- ∞ [Bootstrap unofficial showcase](#)
- ∞ [Love Bootstrap](#)
- ∞ [Bootstrap Expo](#)
- ∞ A few big names:
 - [State of Kentucky](#)
 - [code.NASA](#) (with WordPress)
 - [Michael's](#) craft store
 - [Fender](#) guitars
 - [StumbleUpon](#)
 - [Salvation Army](#) (Midwest)
 - [Medicare.gov](#)
 - [Disqus](#)
 - [Delicious](#)

Let's code!



LESS CSS



A quick orientation

CSS Preprocessors

```
h1, h2 {  
    color:#93386D;  
    font-size:22px;  
    line-height:30px;  
    border-bottom:1px solid #93386D;  
    padding-top:0;  
    margin-top:0;  
    margin-bottom:20px;  
}  
.title, .pos-title {  
    font-size:22px;  
    line-height: 30px;  
    color:#93386D;  
    font-weight: normal;  
    margin-bottom:20px;  
}
```

CSS Preprocessors

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CSS Preprocessors

❖ Centralize variables

- Make one declaration of color, refer to the variable everywhere else

❖ Perform mathematical operations

- Make a color lighter or darker
- Scale widths and heights

❖ Using mixins, create sets of styles

- Establish a style for rounded corners once, then use everywhere

❖ Require compiling before use on the web

- Write LESS styles in LESS documents using LESS language, then compile to create a CSS document the browser understands

Kinds of CSS Preprocessors

LESS CSS

- ☞ www.lesscss.org
- ☞ Programmed with JavaScript
- ☞ Bootstrap 3 uses LESS

Sass

- ☞ www.sass-lang.com
- ☞ Programmed with Ruby
- ☞ Can integrate with [Compass](#)
- ☞ [ZURB Foundation](#) uses Sass
- ☞ Bootstrap now has a Sass port from the original LESS
- ☞ Bootstrap 4 only ships with Sass

Questions?

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Slides available at

www.slideshare.net/jen4web

Code files available at:

[www.github.com/jen4web/
bootstrap-workshop](http://www.github.com/jen4web/bootstrap-workshop)