

Bootstrap: Got files & software?



- ☞ Download files: <https://github.com/jen4web/bootstrap-3-workshop>
- ☞ 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 /3](http://sublimetext.com/3)

JK

Up & Running with Bootstrap 3



Jen Kramer • MinneWebCon • April 2016

It's all about mobile



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-design/

The screenshot shows a web page from A List Apart. On the left is the magazine's logo, which features a large letter 'A' inside a laurel wreath, with 'LIST apart' written below it. To the right of the logo is a small decorative element resembling a feather or a stylized leaf. The main title 'Responsive Web Design' is centered in a large, bold, reddish-brown font. Below the title, the author's name 'by ETHAN MARCOTTE' is written in a smaller, green font. At the bottom of the page, there is a horizontal line followed by the text 'Published in: CSS, Layout, User Interface Design, Mobile, Mobile Design, Mobile Development'. Below this line are two links: 'Discuss this article »' and 'Share this article »'.

What is Bootstrap?

- ∞ “Bootstrap is a responsive design framework for building web sites and web applications.”
- ∞ It is the most popular project in [GitHub](#).
April 2016: 94.8K stars, 41K forks

A large, bold, white number '3' is centered on a dark purple rectangular background. The number has a thick, rounded font style.

What is Bootstrap 3?

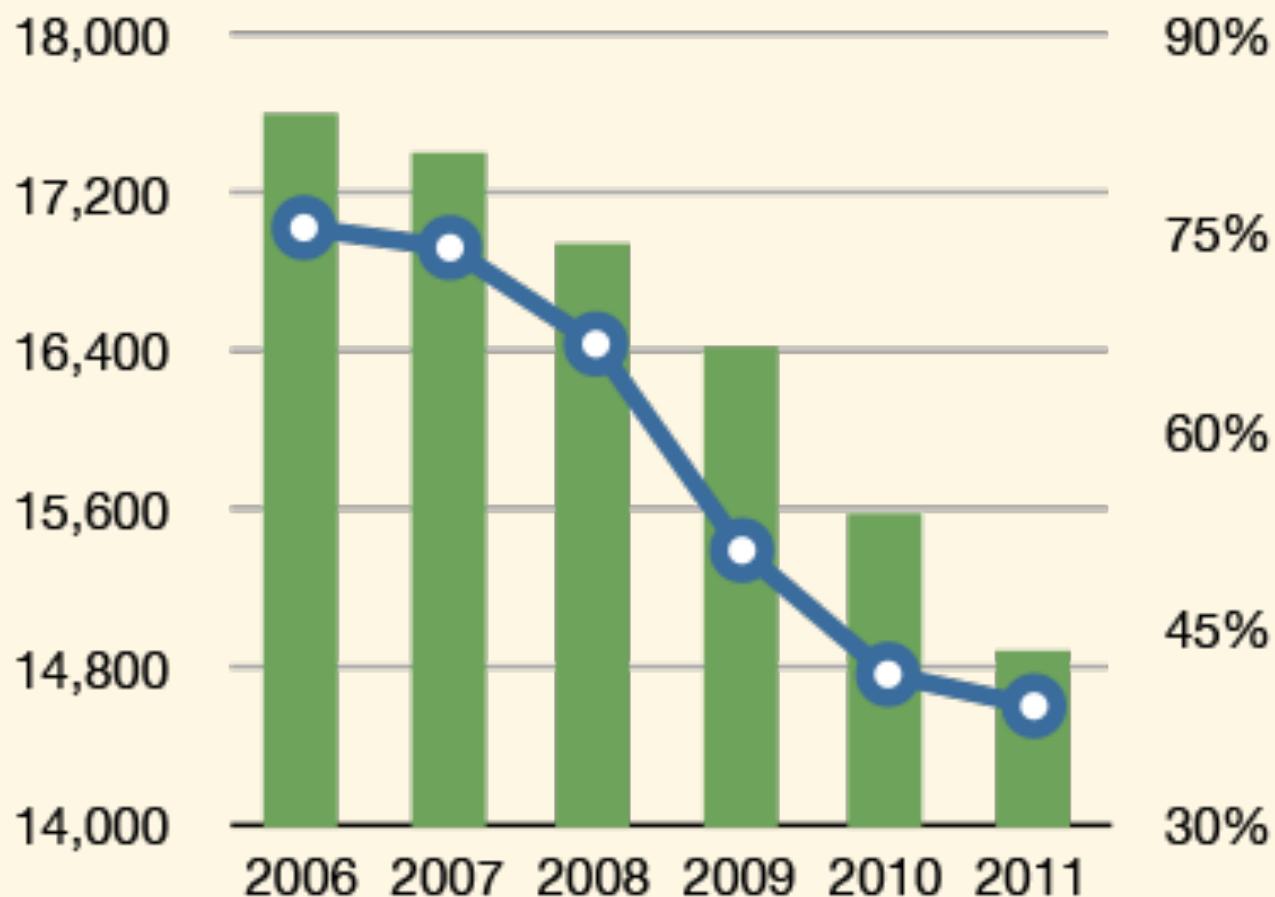
- ❖ Mobile-first approach
- ❖ Single (responsive) grid system, including grid sizing for <768 px, >768 px, >992 px, and >1200 px
- ❖ Dropping support for IE7 and FF 3.6 (and removing hacks to support them).
- ❖ Now supporting IE 8 and higher (with some modifications)
- ❖ Font icons, dropping old PNG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

Bootstrap 3 vs 4

- Move from LESS to Sass (specifically SCSS)
- Move from px to rem/em, and font size from 14px to 16px
- New grid breakpoint for < 480px
- Move separate bootstrap-theme.css elements to Sass variables
- Panels, thumbnails, and wells become cards
- No more glyphicons or Affix component
- border-box sizing instead of content-box
- No support for IE8, some for IE9
- And a zillion other changes:

<http://v4-alpha.getbootstrap.com/migration/>

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
- NASA
- University of Washington
- FIFA
- Frog Design
- Visual Studio Code (Microsoft!)
- Coursera

Let's code!



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)