

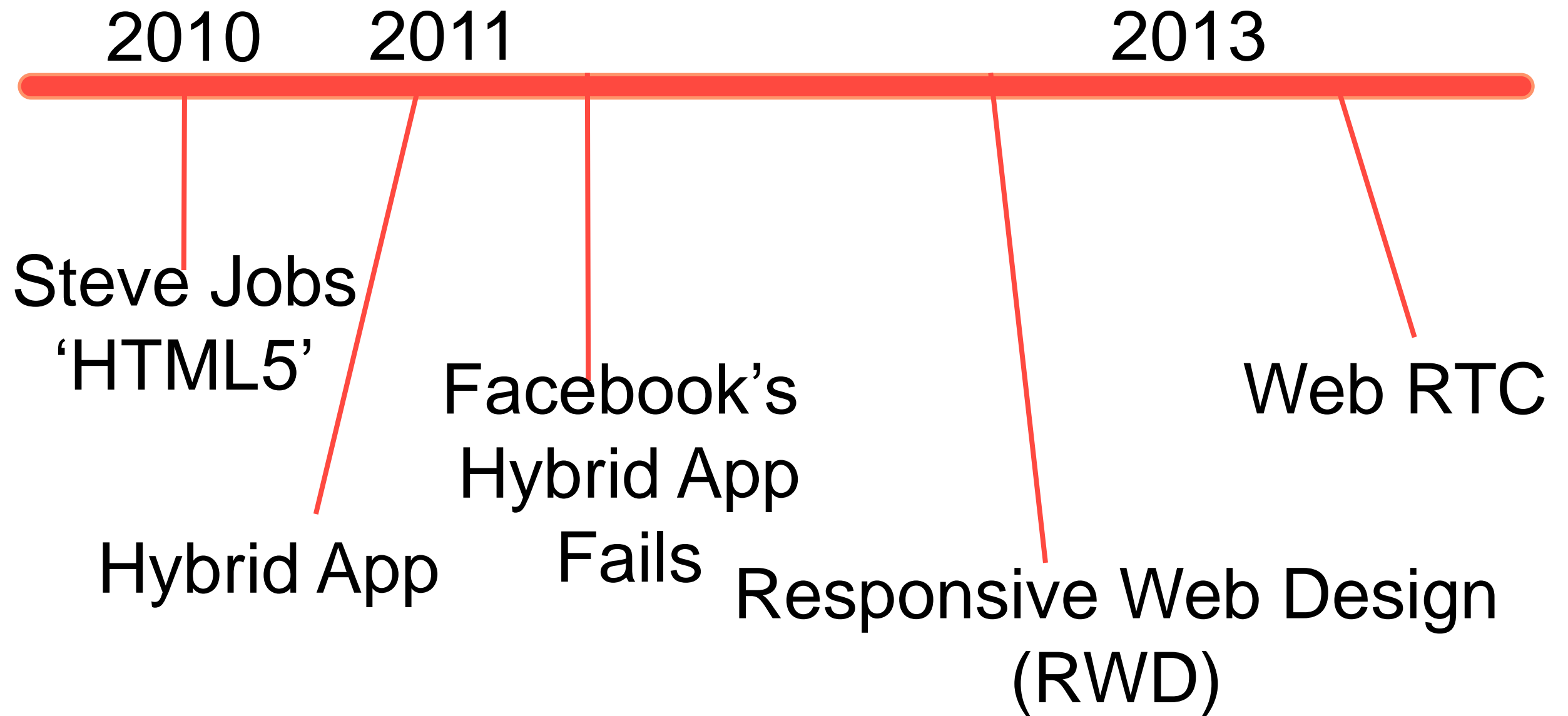
Mobile & Web Evolution

Kang YoChun (cookie_00@naver.com)

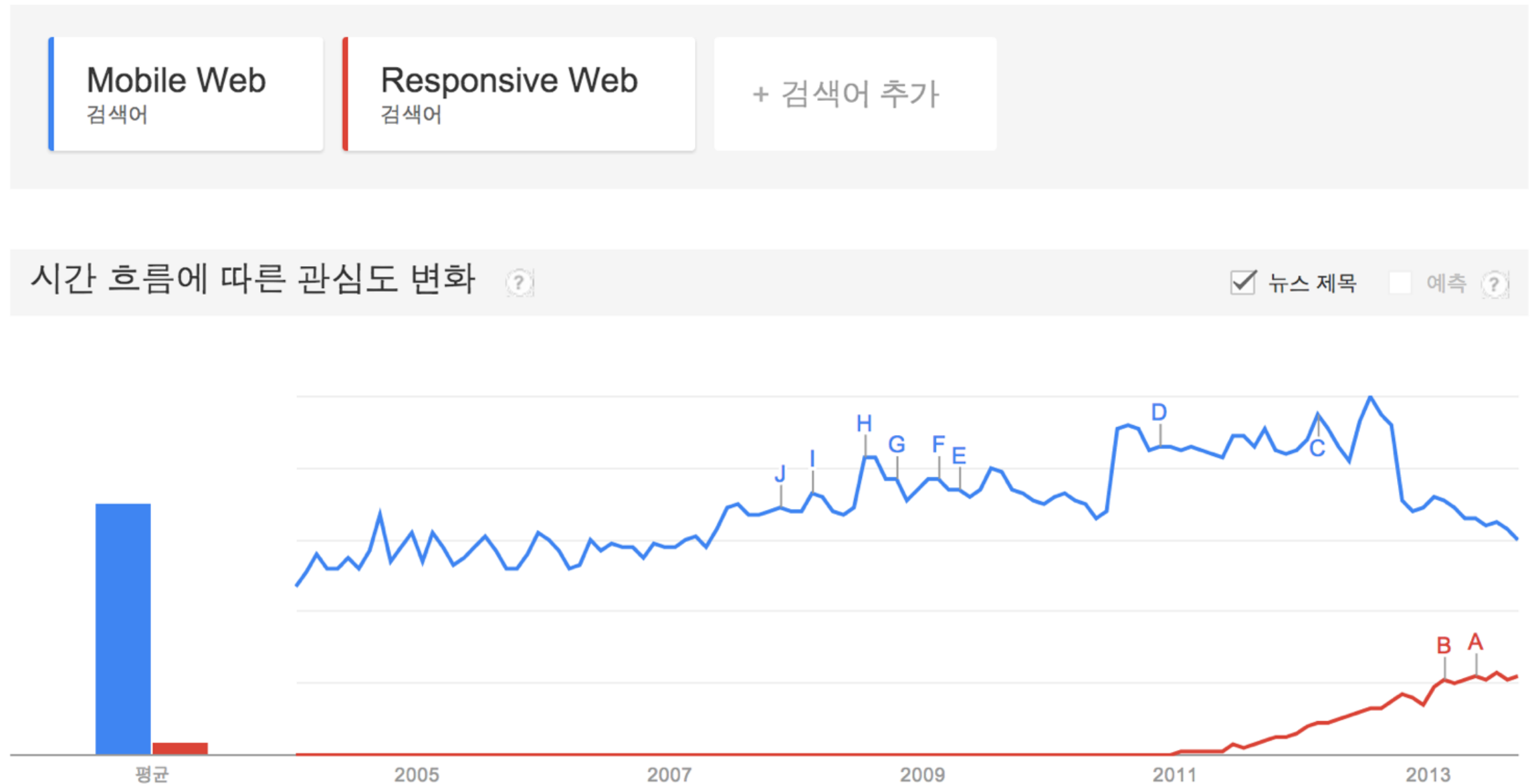
Subjects

- Responsive Web Design(RWD)
- Twitter's Bootstrap 3.0
- RWD problems and Server Side
- About Web App

Web Issues timeline



Responsive Web Birth



Web is Web, App is App!
Web is different from App!

HTML5 can't make money?

- Nothing new at all?
- It's not necessity
- Web is always free!
- HTML5 is not suit for Mobile Age!

Responsive Web page

- Web is Web! Don't compare with App.
- Mobile Device's Sensors are not used everyday.
- Accessibility



How to create RWD page

- Media Queries in CSS3
- Fluid Grids
- Web Fonts
- Client Side & Server Side Tech!

Who interesting RWD?

- CSS is not suit for Developers
- jQuery changes Web World
- HTML5 = HTML + CSS3 + JavaScript
- May be Bootstrap is the easiest way

Bootstrap

Sleek, intuitive, and powerful mobile first front-end framework for faster and easier web development.

[Download Bootstrap](#)

Bootstrap

jquery mobile
검색어

bootstrap
검색어

+ 검색어 추가

시간 흐름에 따른 관심도 변화 ?

☒ 뉴스 제목 ☐ 예측 ?



퍼가기

Bootstrap is CSS Framework

- Layouts
- CSS
- Web Components
- JavaScript
- Customize

Compiled Bootstrap

Download Bootstrap

There are a few easy ways to quickly get started with Bootstrap, each one appealing to a different skill level and use case. Read through to see what suits your particular needs.

Compiled CSS, JS, and fonts

The fastest way to get Bootstrap is to download the compiled and minified versions of our CSS and JavaScript, along with the included fonts. No documentation or original source files are included.

Download Bootstrap

Additional downloads

Download latest source code

Get the original files for all CSS and JavaScript by downloading the latest version directly from GitHub.

Clone or fork via GitHub

Clone the entire project or fork your own version of Bootstrap to make it your own by visiting us on GitHub.

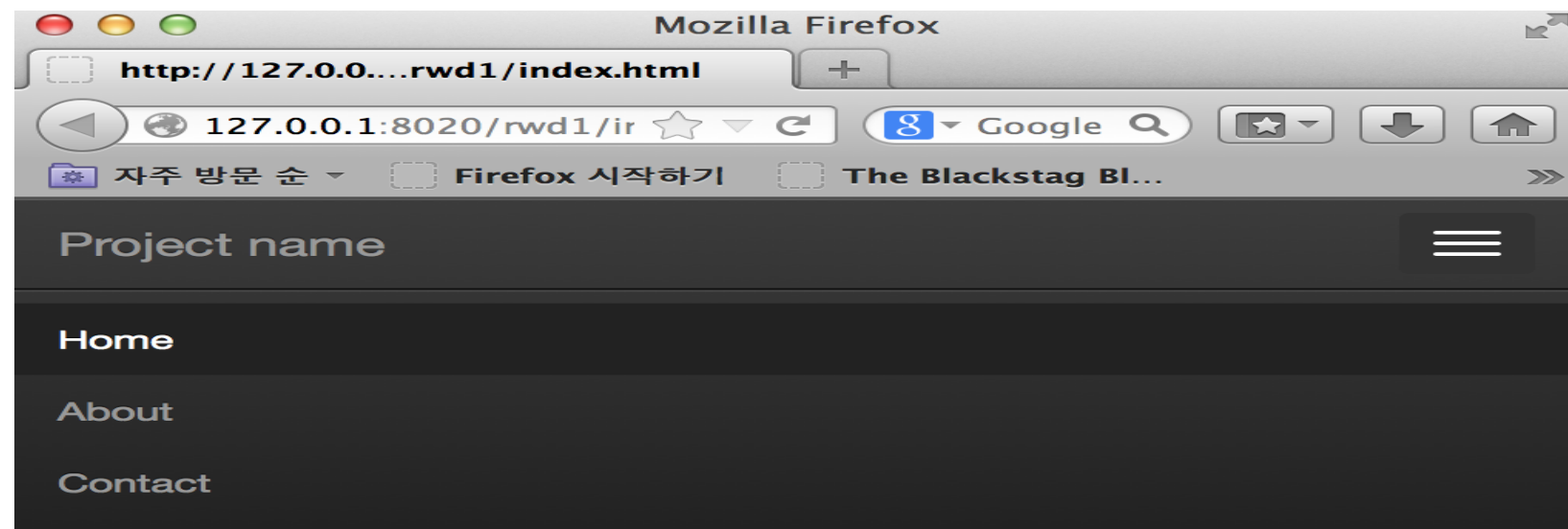
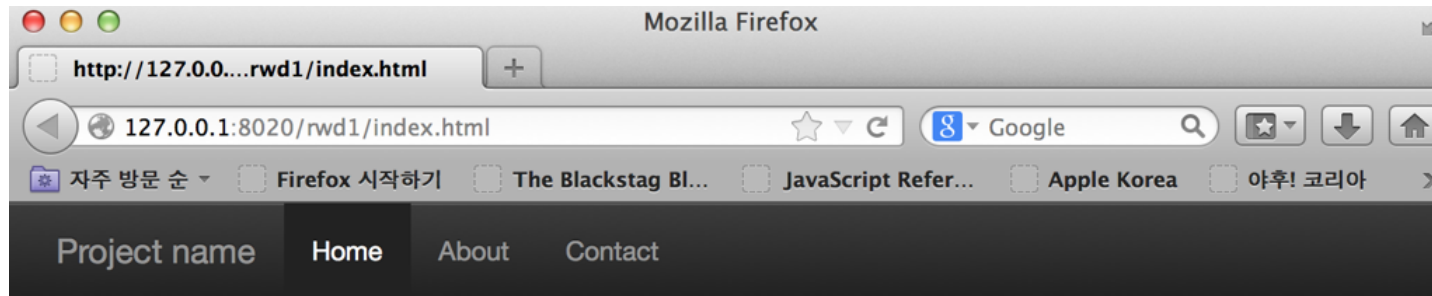
Install with Bower

Install and manage the original files for all CSS and JavaScript, along with a local copy of the docs, using [Bower](#).

Bootstrap 은 LESS를 이용해서 컴파일된 CSS파일을 생성할 수 있다.

편하게 사용하려면 dist버전을 이용할 수 있다.

navigation



Grid layout

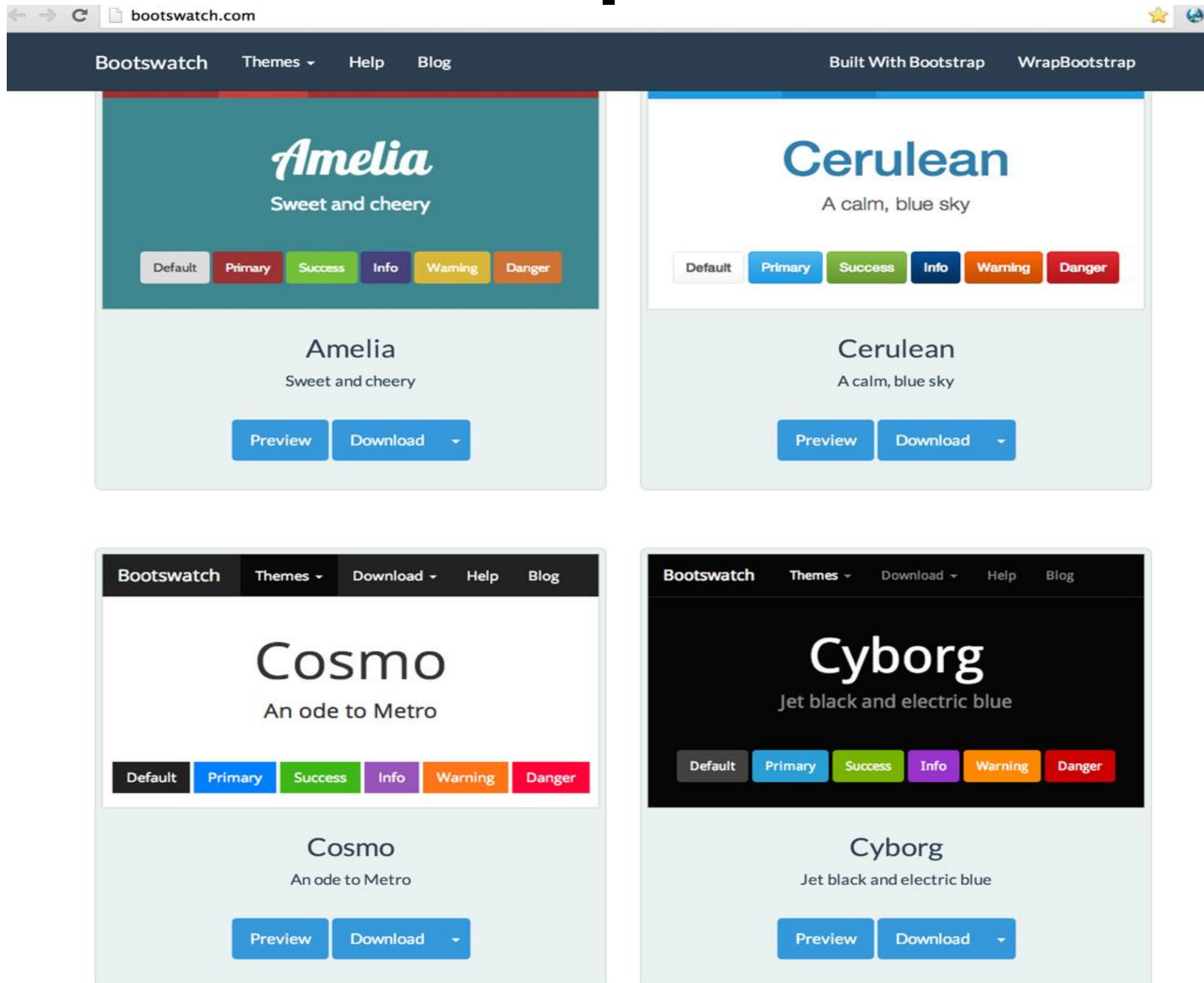
- CSS3 - multi column
- http://www.w3schools.com/css3/css3_multiple_columns.asp
- predefined classes & mixins

Grid options

See how aspects of the Bootstrap grid system work across multiple devices with a handy table.

	Extra small devices Phones (<768px)	Small devices Tablets (≥768px)	Medium devices Desktops (≥992px)	Large devices Desktops (≥1200px)
Grid behavior	Horizontal at all times	Collapsed to start, horizontal above breakpoints		
Max container width	None (auto)	750px	970px	1170px
Class prefix	.col-xs-	.col-sm-	.col-md-	.col-lg-
# of columns	12			
Max column width	Auto	60px	78px	95px
Gutter width	30px (15px on each side of a column)			
Nestable	Yes			
Offsets	N/A	Yes		
Column ordering	N/A	Yes		

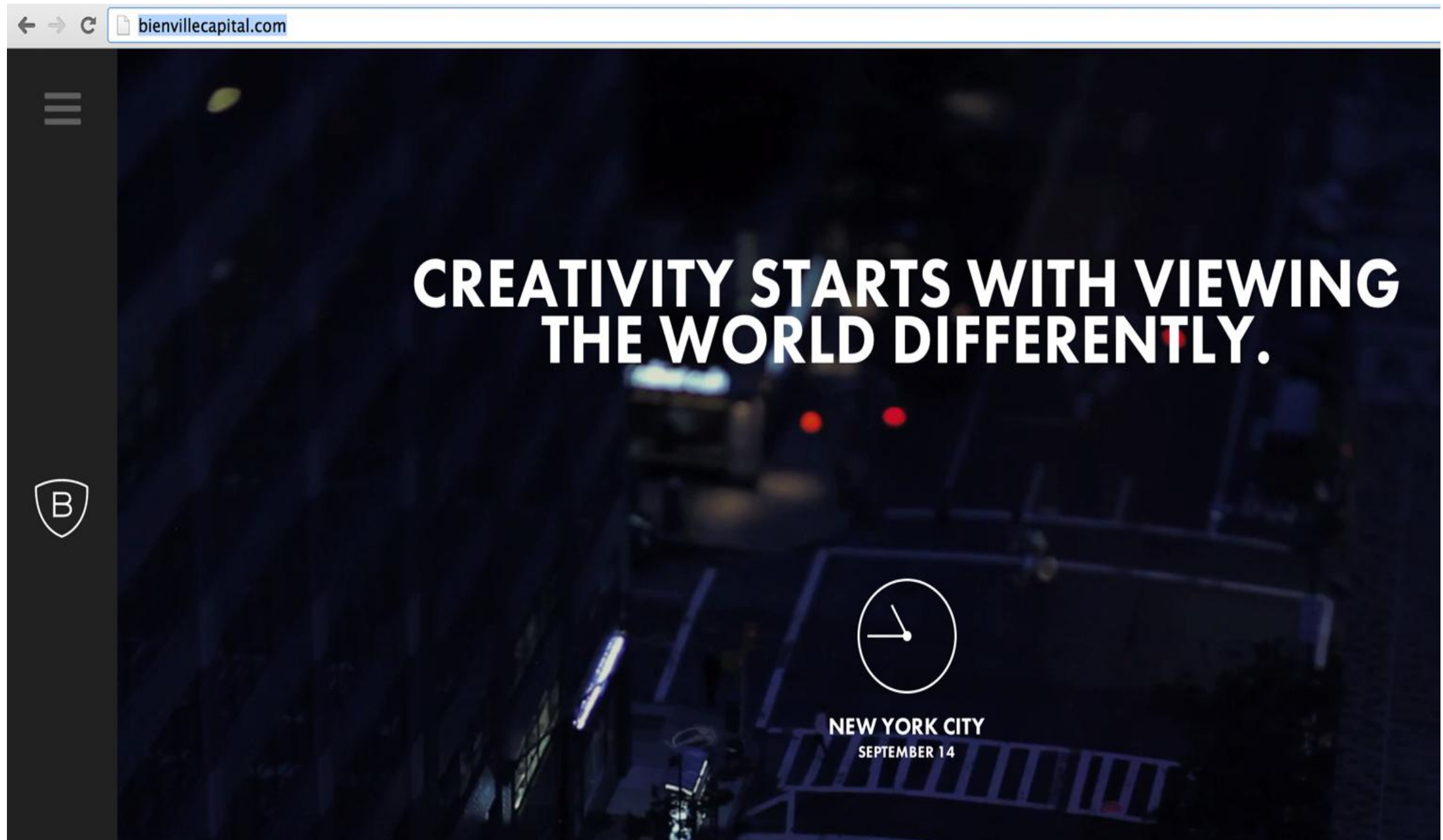
Bootstrap themes



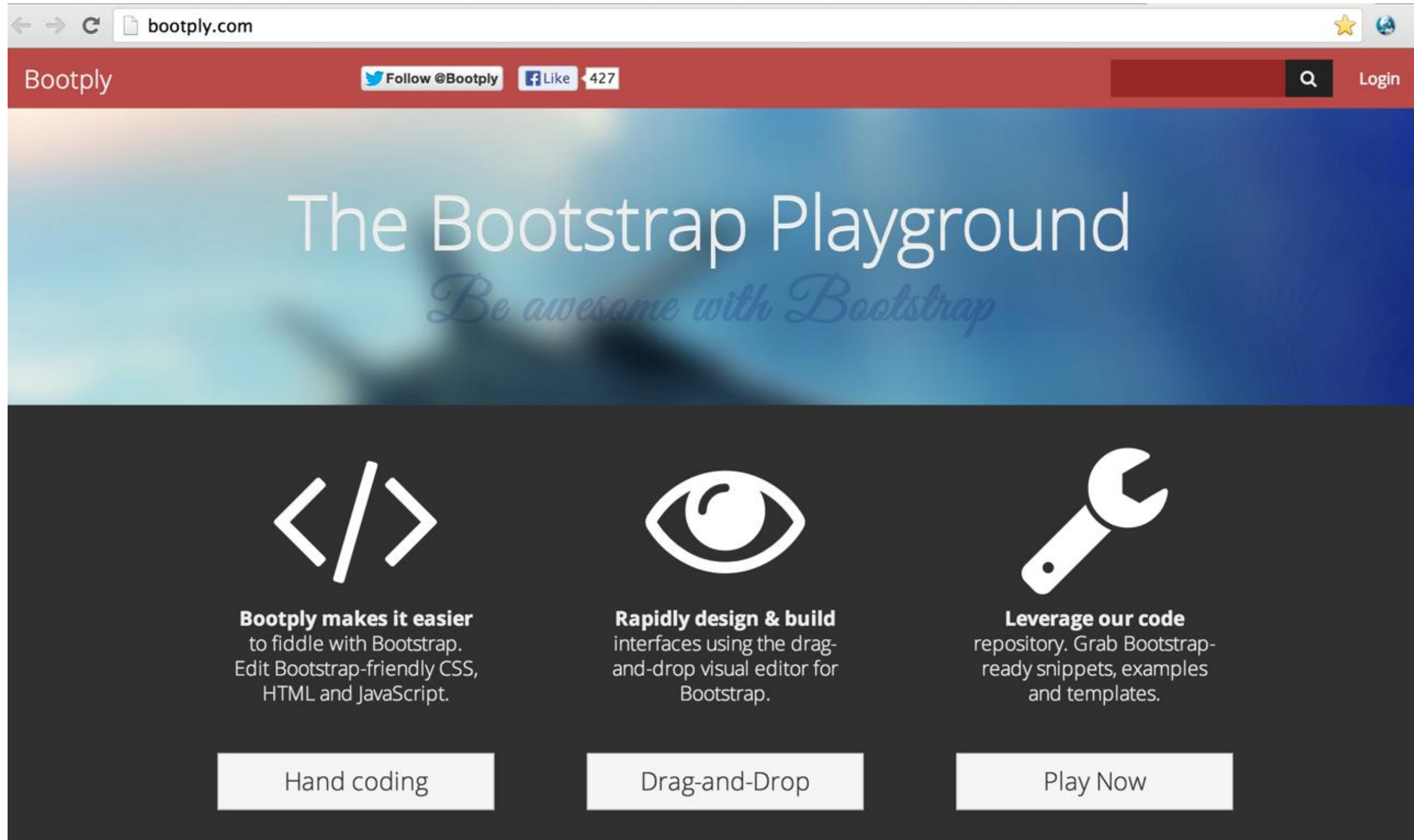
customizing

- Overriding CSS
- Using custom builder
- Customizing LESS

Background Media



Bootply



The screenshot shows the Bootply website homepage. At the top, there's a red navigation bar with the 'Bootply' logo on the left, social media links for Twitter (@Bootply) and Facebook (427 likes) in the center, and a search bar and 'Login' link on the right. Below the navigation bar is a large blue header area with the text 'The Bootstrap Playground' in a large, white, sans-serif font, and the tagline 'Be awesome with Bootstrap' in a smaller, italicized, blue script font below it. The main content area has a dark grey background and features three columns of content. Each column has a white icon at the top, followed by a bold heading and a descriptive paragraph, and ends with a white button. The first column uses a code icon, the second an eye icon, and the third a wrench icon.

bootply.com


Bootply

Follow @Bootply Like 427

Search Login


The Bootstrap Playground

Be awesome with Bootstrap




Bootply makes it easier
to fiddle with Bootstrap.
Edit Bootstrap-friendly CSS,
HTML and JavaScript.

Hand coding



Rapidly design & build
interfaces using the drag-
and-drop visual editor for
Bootstrap.

Drag-and-Drop



Leverage our code
repository. Grab Bootstrap-
ready snippets, examples
and templates.

Play Now

RWD is not silver bullet

CSS Media Query for Mobile is Fool's Gold



Jason Grigsby | August 3, 2010

*Read the **follow up article** written August 21, 2013*

Ethan Marcotte's article [Responsive Web Design](#) has caught the imagination of web developers. [Several subsequent articles](#) have touted the CSS media query feature as a way to build mobile-optimized web sites.

Responsive Web Design is Solid Gold



Jason Grigsby | August 21, 2013

A few years ago I wrote an article entitled [CSS Media Query for Mobile is Fool's Gold](#). It garnered a lot of attention at the time, and I still see people reference it.

I've long wanted to write an update to that article, but never knew quite what to say until now. And because one inflammatory title deserves another, read on for why Responsive Web Design is Solid Gold.

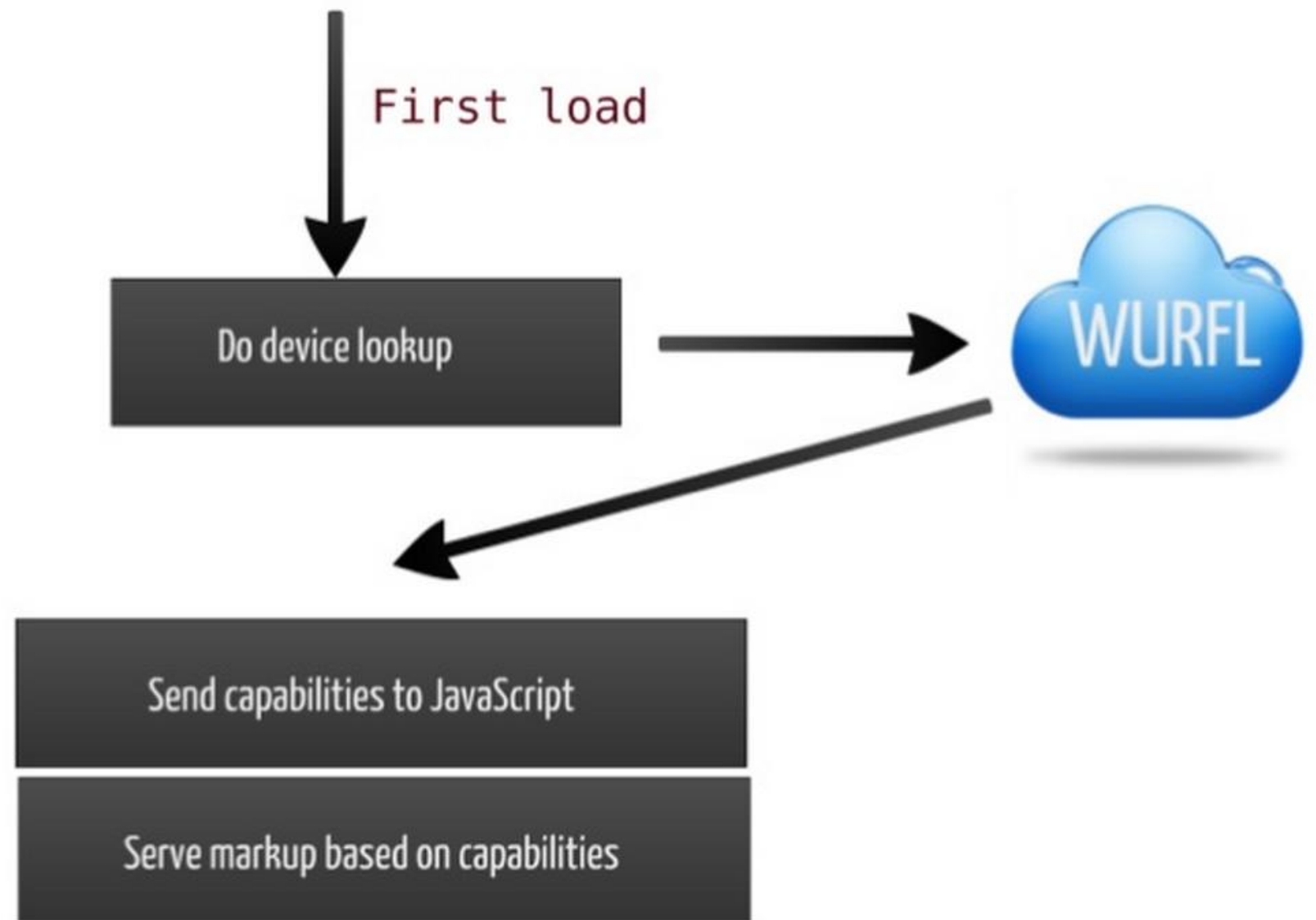
RWD issues

- Full Images
- Browser Resizing
- DOM download
- etc

Server Side Approach

- Browser sniffing
- RESS

The **RESS** aproach:



Terms

- Single-page application
 - SPA
- Web App

Web is Application

- HTML5 as a platform
 - Multimedia
 - WebSocket
 - CSS3
- Browser as a platform
 - Ajax
 - Web DB
 - WebGL

Web App Design

- Data format is JSON
 - Ajax + JSON
- suffix is '.html'
- Real Time Communication (RTC)

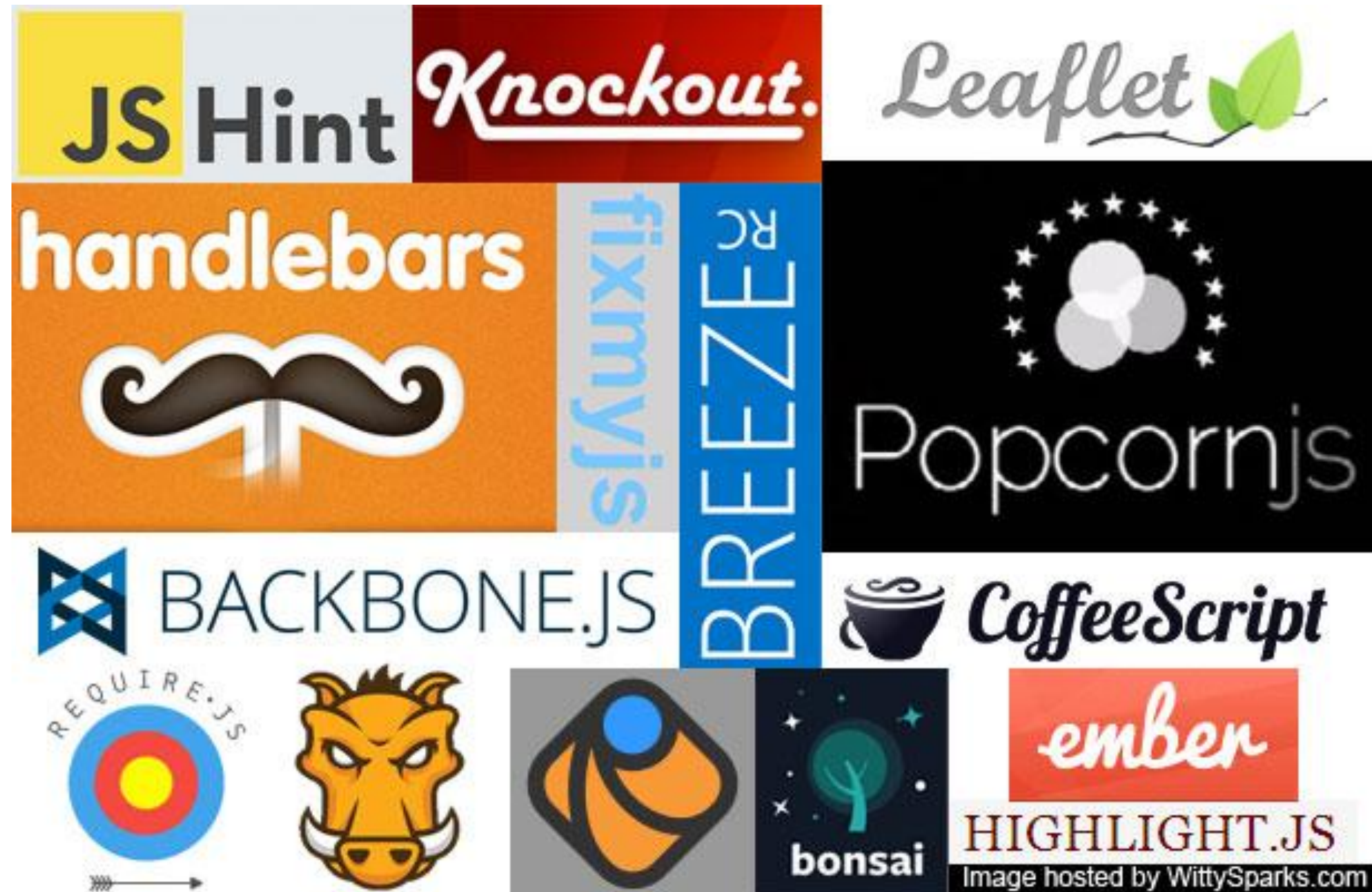
Web App Server Side

- Support WebSocket or Socket.io
 - Node.js
 - Vert.x
 - Servlet 3.x
- RESTful
- JSON format

Web App Client Side

- Dynamic HTML & Ajax
 - Templates
- Client Frameworks
 - Backbone.js
 - Angular.js

JavaScript Frameworks



SPA Frameworks

- Ember
- Backbone
- Knockout
- Angular
- Batman(CoffeeScript)
- (Sencha Touch)

jQuery is not ...

jQuery was designed for augmentation and has grown incredibly from that simple premise.

But in AngularJS, you must start from the ground up with your architecture in mind. Instead of starting by thinking "I have this piece of the DOM and I want to make it do X", you have to start with what you want to accomplish, then go about designing your application, and then finally go about designing your view.

Future of Web

- Roll it!

