

Responsive Web Design

using ZURB Foundation 5

by Chris Morrow



SOLTECH 

THE PLAN

- What is Responsive Web Design?
- Responsive Design: Pros and Cons
- Frameworks
- Download/Setup of Foundation
- UI Dev Tools
- Using Foundation 5

WHAT IS RESPONSIVE WEB DESIGN?

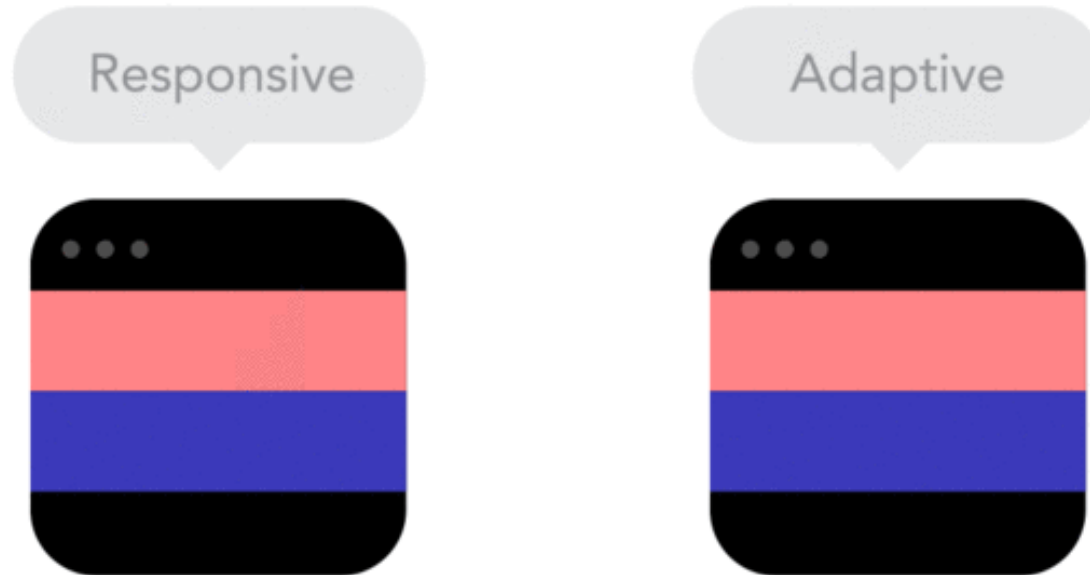
- RWD is creating a website that dynamically changes a.k.a "responds" to all viewport sizes, device orientations, and device resolutions.
- Ethan Marcotte: three tenets of RWD are a fluid grid, flexible media, and media queries.

PROS & CONS

Responsive vs Adaptive vs Mobile vs App



ADAPTIVE



[liquidapsive.com \(http://www.liquidapsive.com/\)](http://www.liquidapsive.com/)

RESPONSIVE

Pros:

- One Site to maintain
- SEO Friendly
- Lower Cost to Build and Maintain

Cons:

- More Complex Code
- Bad Performance
- ~~Bad Performance~~: false, for the most part

OK GOOGLE!

AWD vs RWD vs ____

AWD: All Wheel Drive

RWD: Rear Wheel Drive

FWD: Front Wheel Drive



DEV ACRONYMS

- **AWD:** Adaptive Web Design
- **AWD:** Adaptive Web Delivery
- **RWD:** Responsive Web Design
- **SWD:** Situational Web Design
- **WTF:** Insert New Approach Here

RWD: MISCONCEPTIONS

RWD Causes Poor Performance

*" Because the images on a responsive site are just visually scaled down and **not re-sized**, smartphones and tablets can notice a **lag in loading speeds**, especially when being used on a mobile network "*

"Responsive Design is Expensive"

When compared to maintaining a separate mobile site, responsive sites can be equal or lower in cost

*"All responsive websites
look the same"*

<default Bootstrap styles>

*"Anyone who embraces
Responsive Web Design is stupid"*

Anyone who embraces
Responsive Webdesign
is stupid

Ric van Westthreenen
Youwe



ZURB QUOTE

"Friends don't let friends design in 960px"

FRAMEWORKS FOR FREE!!!

How to Choose a Framework

- How many have used a framework or library?
- **Try it for yourself**: make an informed decision with firsthand knowledge
- **Understand how it works** not just what it does
- Take "it" apart, break it, then **piece it together in "your" way**

IS YOUR WORKFLOW SLOW?



UI DEV TOOLS



YO



GRUNT



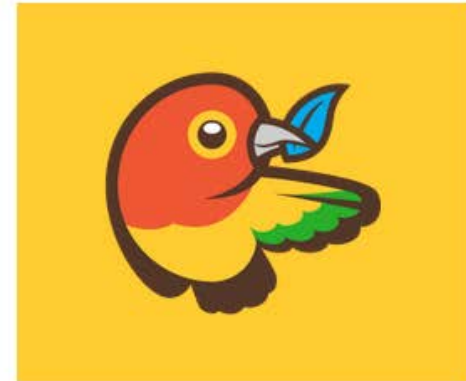
BOWER



[yo](#) scaffolds out a new application, writing your Grunt configuration and pulling in relevant Grunt tasks and Bower dependencies that you might need for your build.



The **Build System** is used to build, preview and test your project. [Grunt](#) and [Gulp](#) are two popular options.



The **Package Manager** is used for dependency management, so that you no longer have to manually download and manage your scripts. [Bower](#) and [npm](#) are two popular options.

<http://yeoman.io/> (<http://yeoman.io/>)

BENEFITS OF UI TOOLS?

- **Grunt:** run local server
- **Grunt:** automation
- **Grunt:** livereload
- **Yeoman:** starter projects
- **Bower:** dependency management

CSS FRAMEWORKS

- Which one to choose?
- Foundation vs Bootstrap vs Skeleton vs YAML 4 vs Gumby vs Pure CSS vs Kube vs Columnal vs Toast vs 1140 Grid vs 960 Grid System vs Gridiculo.us
- Choose what you like best
- Only use what you need

**YO DAWG, I HEARD YOU LIKE
FRAMEWORKS**

**SO WE PUT A FRAMEWORK IN YOUR FRAMEWORK
SO YOU CAN CODE WHILE YOU CODE**

quickmeme.com

RWD USING FOUNDATION 5

- How to Setup ZF5
- The Grid
- Responsive Images / Media
- Media Queries
- Block Grid
- Customizing / Settings

HOW TO SETUP ZF5

<http://foundation.zurb.com/develop/download.html>

- Download CSS
- Manual SCSS Download
- Use A Task Runner (GRUNT/GULP/...)

THE GRID

- Rows and Columns
- Centering
- Nesting
- Ordering
- Customizing the Grid

RESPONSIVE IMAGES / MEDIA

- Images
- PictureFill 2.0
- Video
- Welcome Interchange!

FOUNDATION 5: MEDIA QUERIES

width/16px (base font size) = EMS

- small: 0 - 640px (40em)
- medium: 641px - 1024px (40.063em - 64em)
- large: 1025px - 1440px
- xlarge: 1441px - 1920px
- xxlarge: 1921px+

FOUNDATION 5: CUSTOMIZING

- Understanding the Setup
- Settings
- JS Components
- Make It Your Own

RESPONSIVE TESTING TOOLS?

- Chrome Device Emulation (in dev tools)
- Firefox (Responsive View)
- iOS Simulator (Mac only)
- Adobe Edge Inspect:
<https://creative.adobe.com/products/inspect>
- GhostLab: (mac only) <http://vanamco.com/ghostlab/>
- BrowserStack: <http://www.browserstack.com/>

RESOURCES & LINKS

Tools

- **NodeJS:** <https://nodejs.org/>
- **Yeoman:** <http://yeoman.io/>
- **Grunt:** <http://gruntjs.com/>
- **Bower:** <http://bower.io/>

Zurb Related

- **Foundation:** <http://foundation.zurb.com/>
- **Kitchen Sink:** http://foundation.zurb.com/docs/components/kitchen_sink.html
- **Building Blocks (code samples):** <http://zurb.com/building-blocks>

THANKS FOR COMING!

