Responsive Web Design

using ZURB Foundation 5

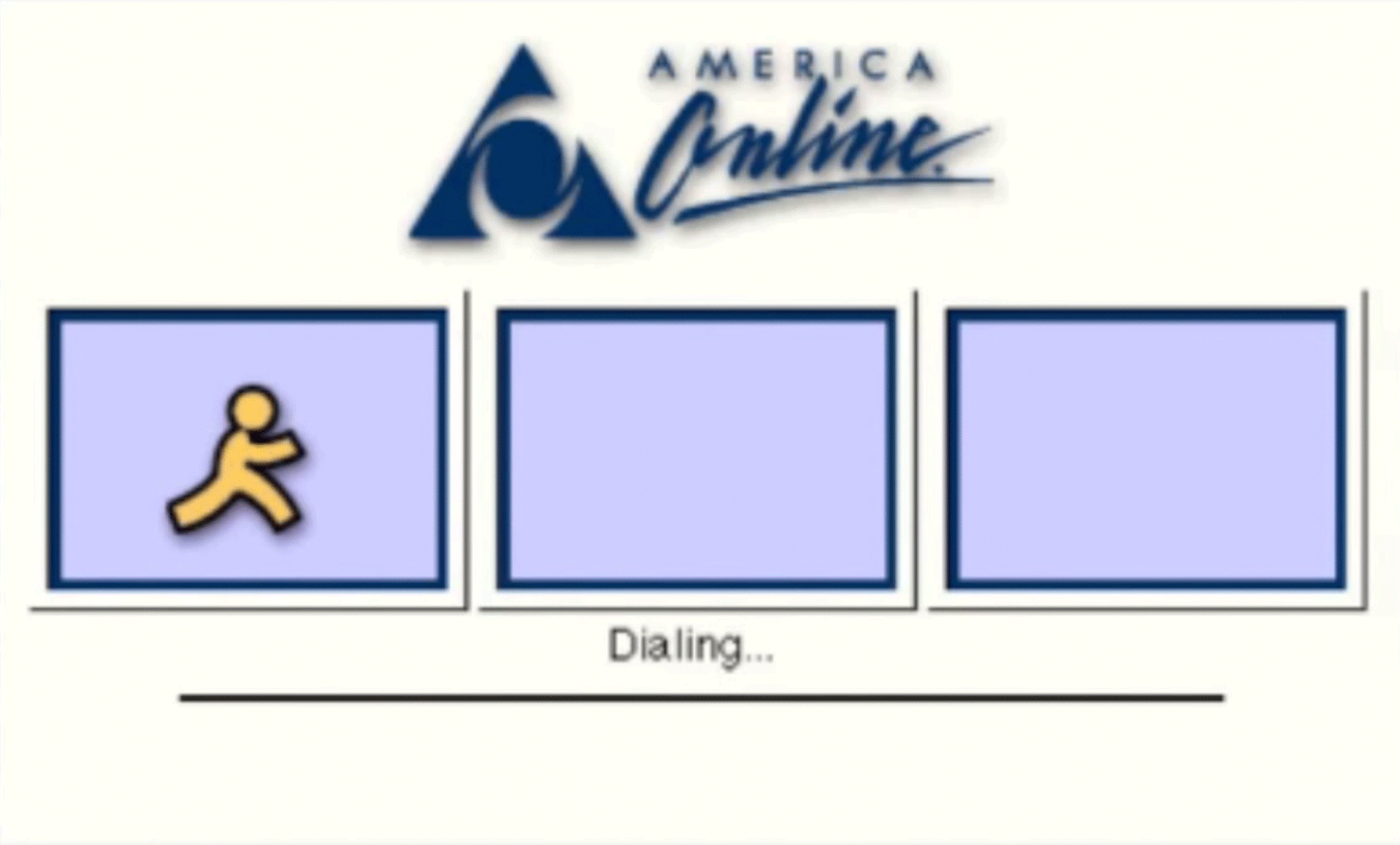
by Chris Morrow

SOLTECH

THE PLAN

- What is Responsive Web Design?
- Responsive vs Adaptive vs Mobile vs App
- UI Dev Tools
- Frameworks
- RWD: Using Foundation 5

REMEMBER THIS?



NOW WE HAVE

AWD vs RWD vs ___

AWD: All Wheel Drive

RWD: Rear Wheel Drive

FWD: Front Wheel Drive

NOW WE REALLY HAVE

- AWD: Adaptive Web Design
- AWD: Adaptive Web Delivery
- RWD: Responsive Web Design
- SWD: Situational Web Design

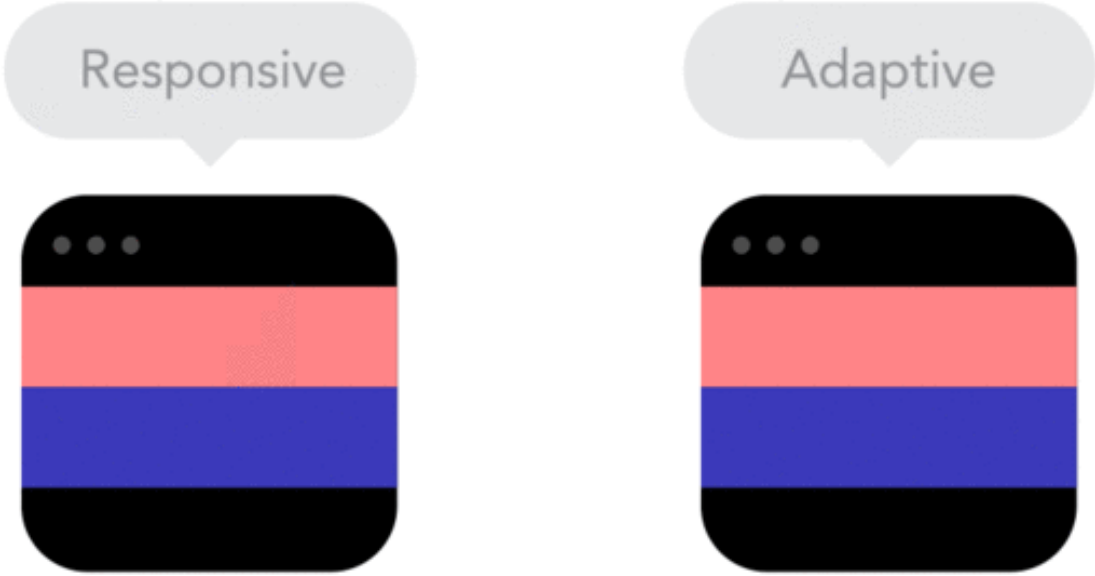
WHAT IS RESPONSIVE WEB DESIGN?

- 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/)

MOBILE

Pros:

- Simpler Code
- Better Performance
- More Cost-effective than Building a Native App

Cons:

- Have to maintain two sites
- Not as SEO Friendly as Responsive
- Still needs to be Responsive

APP

Pros:

- Better User Experience
  (mobile-first-only)
- Native UI
- More features (camera, contacts, etc)

Cons:

- More Time and Money
  (App Store review anyone?)
- Have to maintain app and website
- May be deleted
- Still needs to be Responsive

RESPONSIVE

Pros:

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

Cons:

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

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 seperate 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 Westhreenen
Youwe

ZURB QUOTE

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

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?

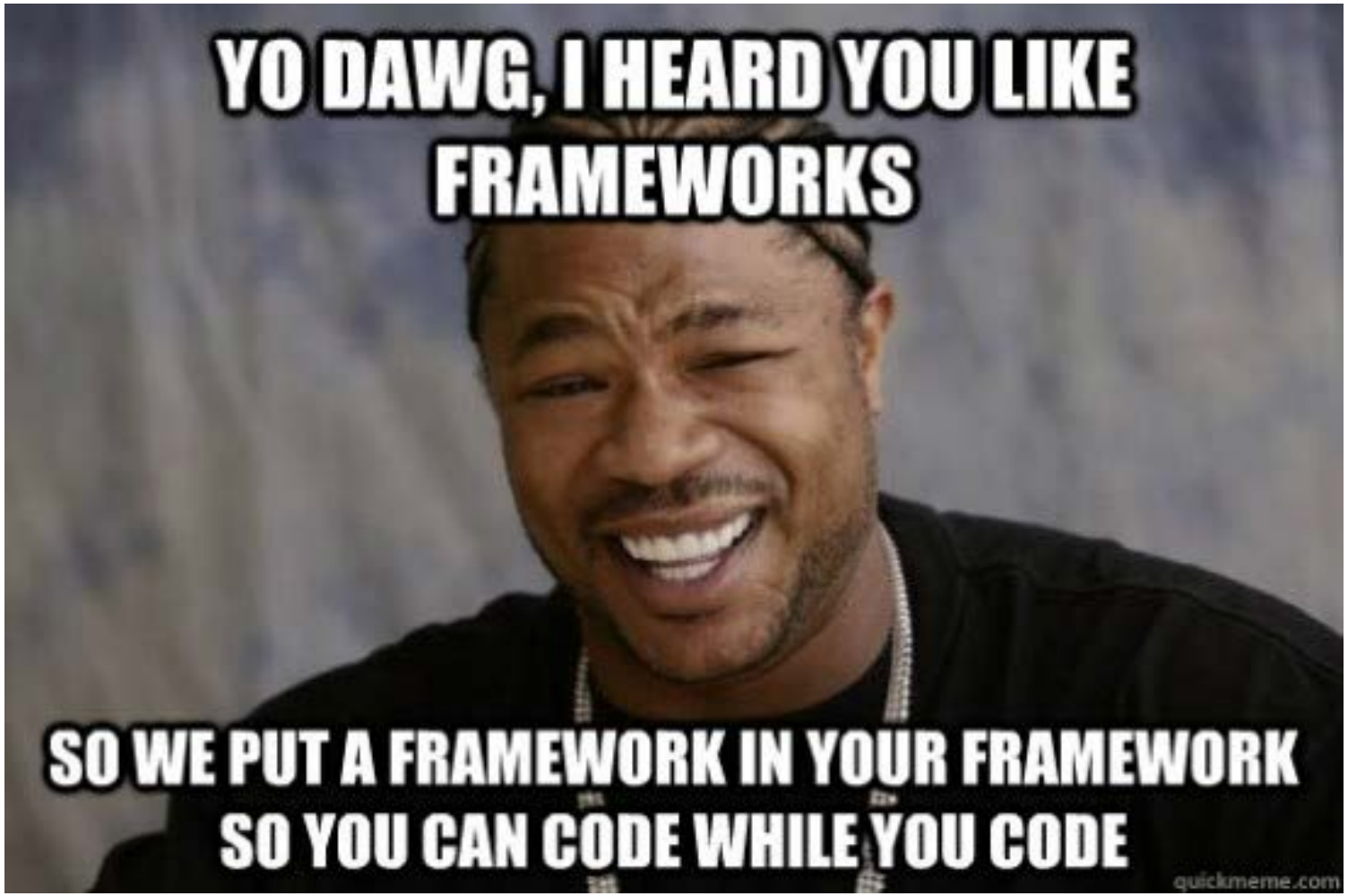
- **Grunt**: run local server
- **Grunt**: automation
- **Grunt**: livereload
- **Yeoman**: starter projects
- **Bower**: dependency management

Q & A

- 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

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

- The Grid
- Responsive Images / Media
- Media Queries
- Customizing / Settings

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

- small: 0 - 640px
- medium: 641px - 1024px
- large: 1025px - 1440px
- xlarge: 1441px - 1920px
- xxlarge: 1921px+

FOUNDATION 5: CUSTOMIZING

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

RWD TESTING TOOLS?

- Google Chrome (Emulation)
- Firefox (Responsive View)
- iOS Simulator (Mac only)
- Browserstack
- Your Own Real Devices
- GhostLab (Mac Only)
- Adobe Edge Inspect

THE END

LINKS

ZURB:

http://foundation.zurb.com/
http://foundation.zurb.com/docs/sass.html
http://patterntap.com/code
http://zurb.com/playground

TOOLS:

http://yeoman.io/learning/
http://gruntjs.com/
http://bower.io/
http://nodejs.org/

RWD

http://www.liquidapsive.com/
http://alistapart.com/article/creating-intrinsic-ratios-for-video