WEB APP DEVELOPMENT

Bootstrap + Angular

Website

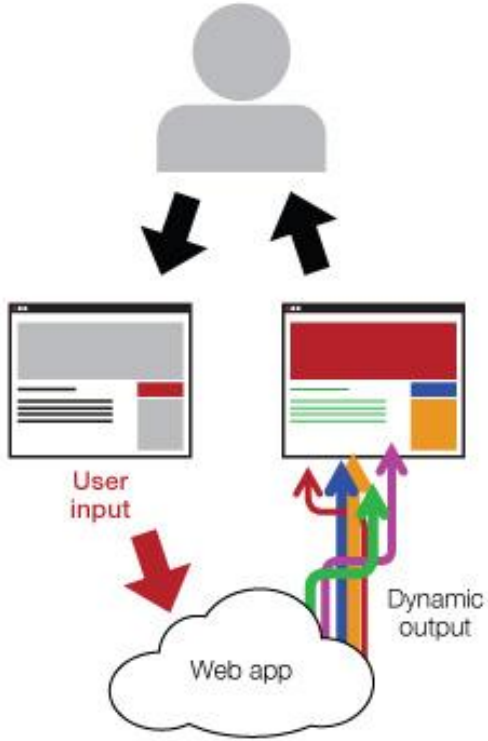
Static pages:

Every user sees the same information each time

Web App

Dynamic pages:

Every user sees the different information depending on their input



AMAZING ADVENTURES OF
Jubilee
VS
NUMB3RS
Total Change
35%
New Users
233k
Most Used
22

Bootstrap

WHY FRAMEWORKS?

Start with boilerplate code and working examples

Easy to customize, reuse, and take apart

Visual design is already well-coordinated

Often a lot of documentation, extensions, and projects to browse

WHAT'S IN A FRAMEWORK?

A nifty file structure

Boilerplate code

Browser & device support (CSS resets, media queries)

Grid system

Themed elements (styling, animations, colors, assets)

WHAT'S IN A FRAMEWORK?
BOILERPLATE CODE

- Modular
- Best practices
- Styling (CSS)
- Common elements
- Animations
- Interaction design

Image from Wolrdline's Github

WHAT'S IN A FRAMEWORK?

BROWSER & DEVICE SUPPORT

- CSS reset
- JS shims
- Mobile-first
- Responsive
- Hybrid approach

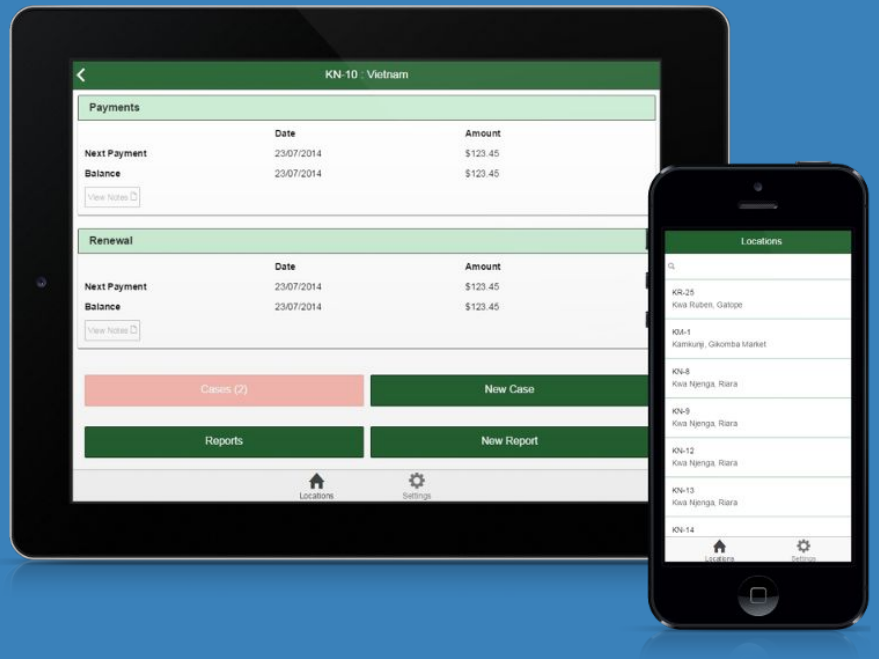


Image from mobilecaddy.net

WHAT'S IN A FRAMEWORK?

GRID SYSTEMS

- Visual cues
- Content chunking
- Responsive
- Scalable/Flexible
- Many choices

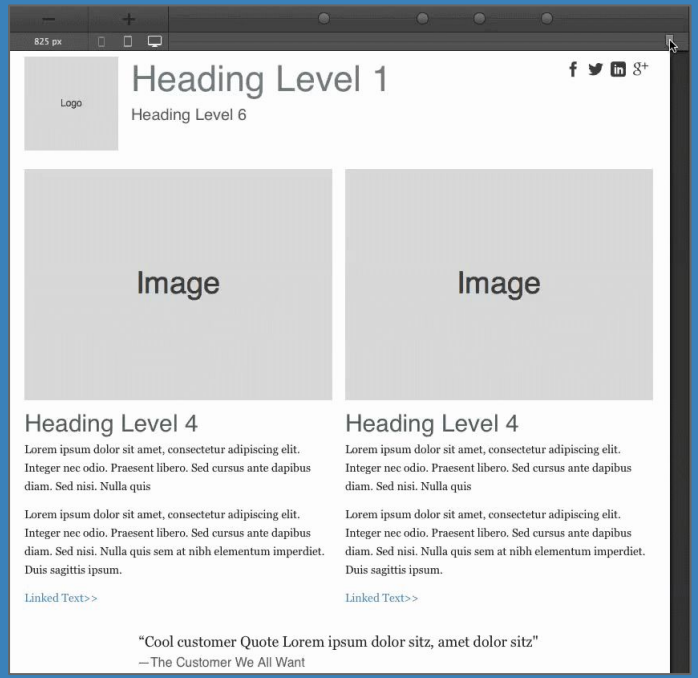


Image from coffeecup.com

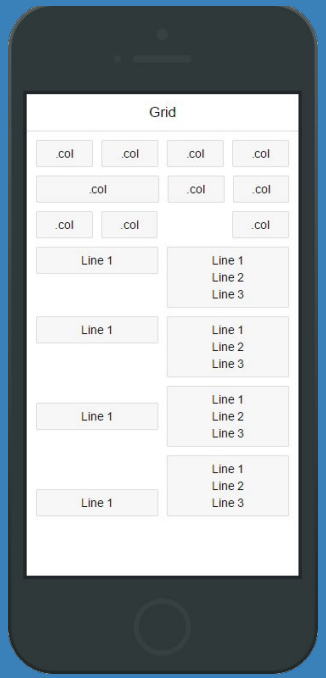


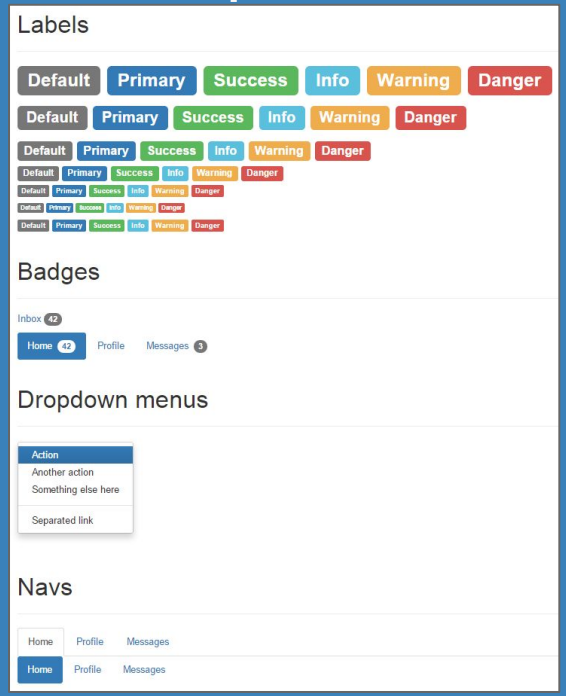
Image from Ionic

WHAT'S IN A FRAMEWORK?

THEMED ELEMENTS

- Styling
- Color scheme
- Buttons & labels
- Animations
- Assets

Bootstrap



Ionic

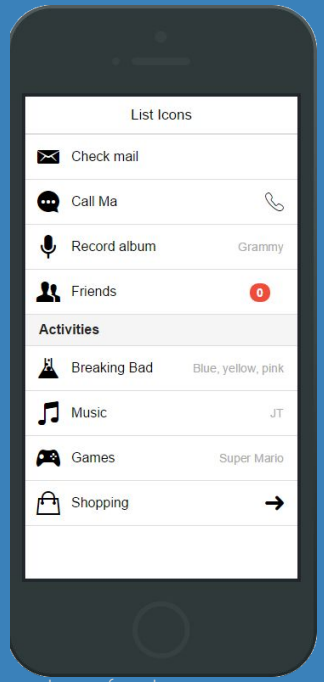
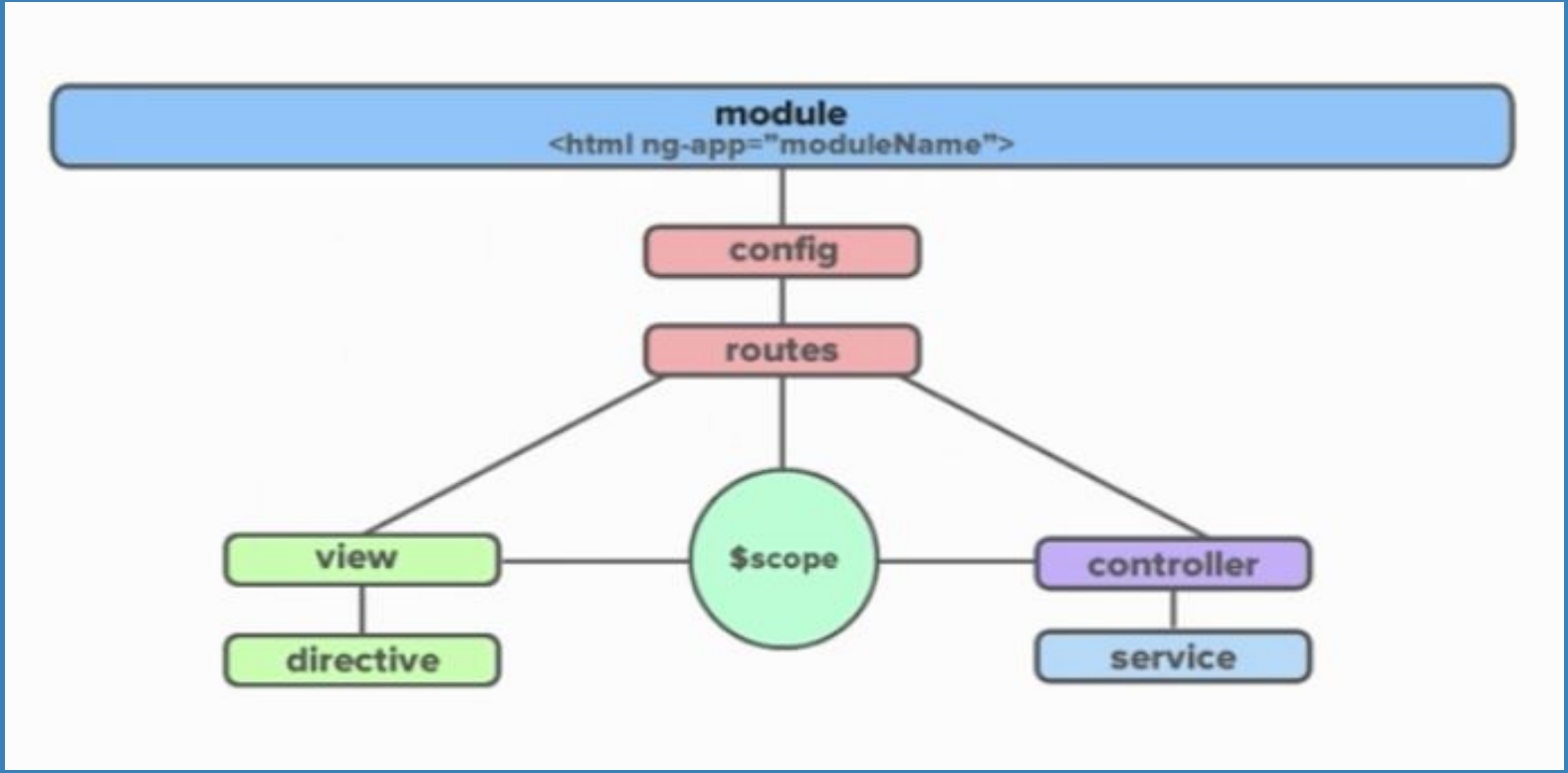


Image from Ionic

ANGULARJS
by Google

The big picture



YEOMAN

Questions?

WHAT'S IN A FRAMEWORK?

A NIFTY FILE STRUCTURE

- Pre-compiled
- Organized
- Contextual
- Consistent

IONIC: PROS & CONS

Good for:

- Hybrid apps
- AngularJS front-end
- Designs similar to iOS 7

Bad for:

- Desktop-size websites/apps
- Ember/Backbone front-end
- Windows Phone, FirefoxOS

Examples: ionicframework.com/docs/components

WALKTHROUGH

IONIC: GETTING STARTED

1. **Get Ionic**
   a. Download & unzip the latest release from code.ionicframework.com
   b. Install it, follow instructions at ionicframework.com/getting-started
2. **Browse boilerplate code**
   2.1. Go to codepen.io/ionic/public-titles-asc, click "Side Menu and Navigation"
   2.2. Click "Share" button, then "Export .zip"
3. **Merge boilerplate code into your Ionic project**
   3.1. Unzip Codepen export, copy contents into your project folder (myApp/www/)
   3.2. Edit index.html, remove all instances of "//code.ionicframework.com/nightly/
   3.3. Open index.html in a browser

WALKTHROUGH

IONIC: CONCEPTUAL OVERVIEW

docs.angularjs.org/guide/concepts

WALKTHROUGH

IONIC: CODE WALKTHROUGH

github.gatech.edu/anelson35/ng-comments

gtjourney.gatech.edu/live/gt-devhub/about

ionic