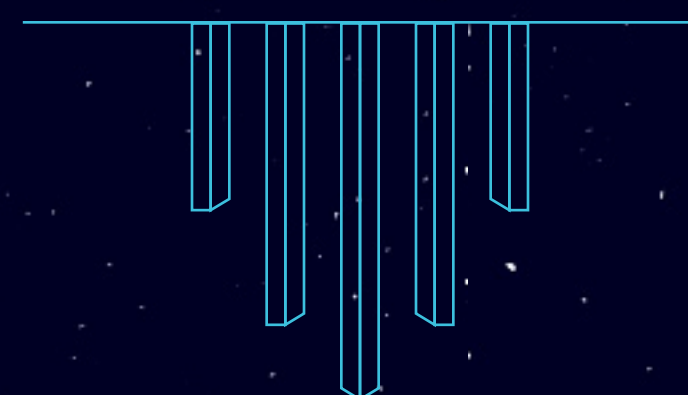


# BUILDING PROGRESSIVE WEB APPS

WITH  ionic AND 

MATT RAIBLE / @MRAIBLE



# Who is Matt Raible?



Father, Skier, Mountain  
Biker, Whitewater Rafter

**Web Framework Connoisseur**

UI Architect and Java Champion  
Stormpath Developer Evangelist



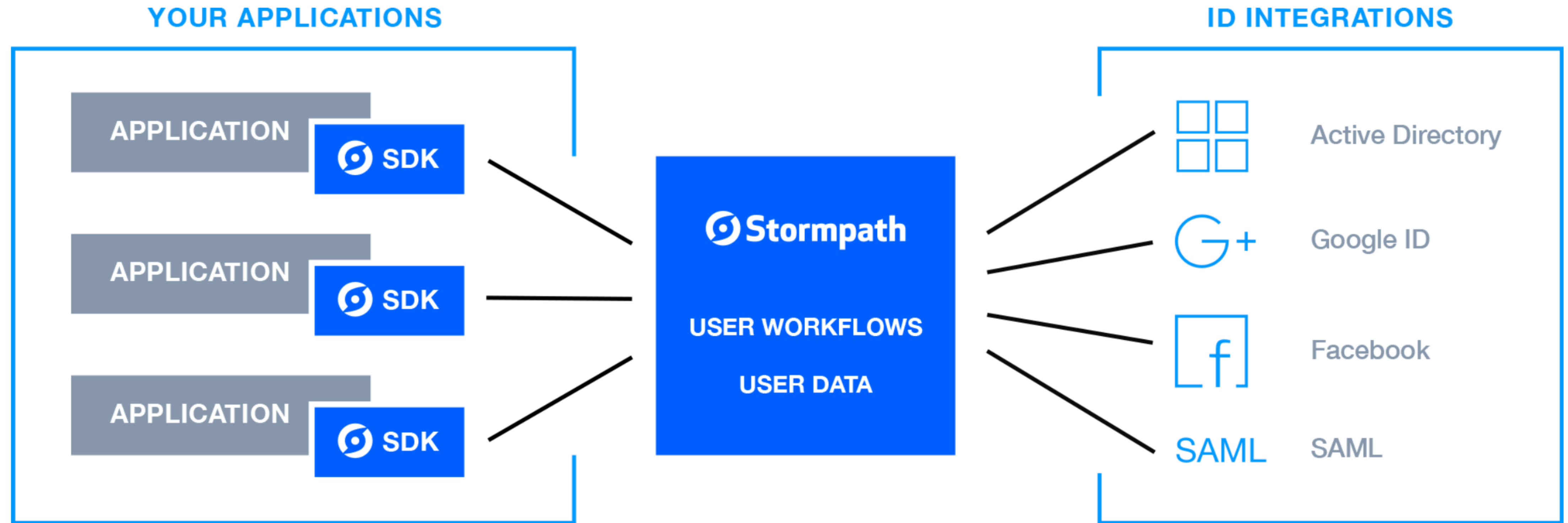
**Bus Lover**

Blogger on [raibledesigns.com](http://raibledesigns.com)



**Stormpath**

# Stormpath User Management





# Spring Boot

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Automatically configures Spring whenever possible

Provides production-ready features such as metrics, health checks and externalized configuration

Absolutely no code generation and no requirement for XML configuration

Embeds Tomcat, Jetty or Undertow directly

# SPRING INITIALIZR @ [start.spring.io](https://start.spring.io)

1. bash

```
~75% [mraible:~] $ curl start.spring.io
```

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**:: Spring Initializr ::** <https://start.spring.io>

This service generates quickstart projects that can be easily customized. Possible customizations include a project's dependencies, Java version, and build system or build structure. See below for further details.

The services uses a HAL based hypermedia format to expose a set of resources to interact with. If you access this root resource requesting application/json as media type the response will contain the following links:

Rel	Description
gradle-build	Generate a Gradle build file
gradle-project	Generate a Gradle based project archive
maven-build	Generate a Maven pom.xml

# The top open source framework for building amazing mobile apps.

Ionic is the beautiful, free and open source mobile SDK for developing native and progressive web apps with ease.

[Get started](#)

[Explore the docs](#)

v2.0.0 / 2017-01-25 / MIT Licensed / Release Notes



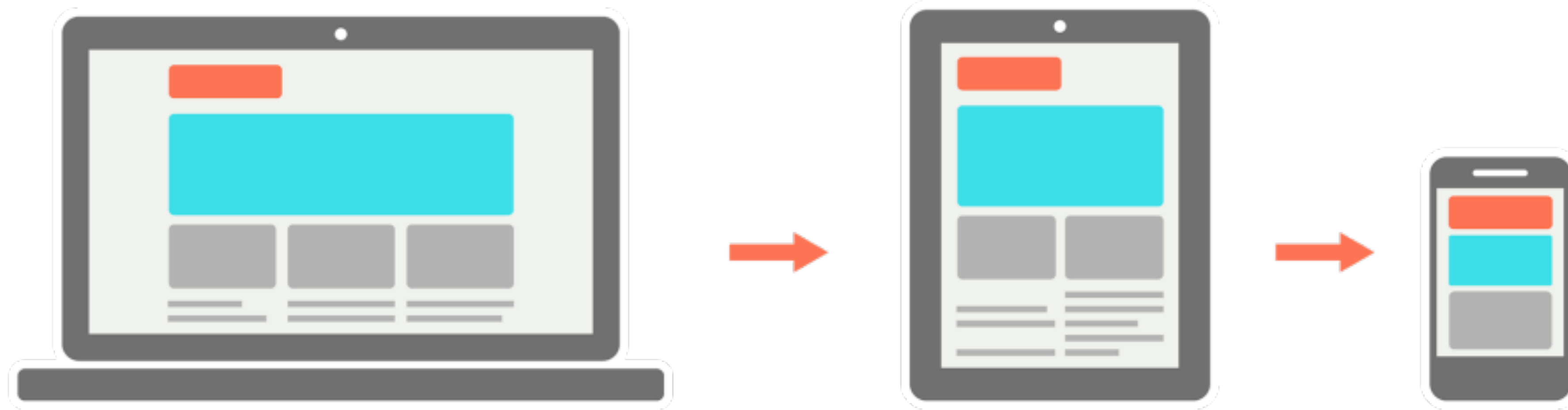
Ionic View App



One framework.  
Mobile and desktop.



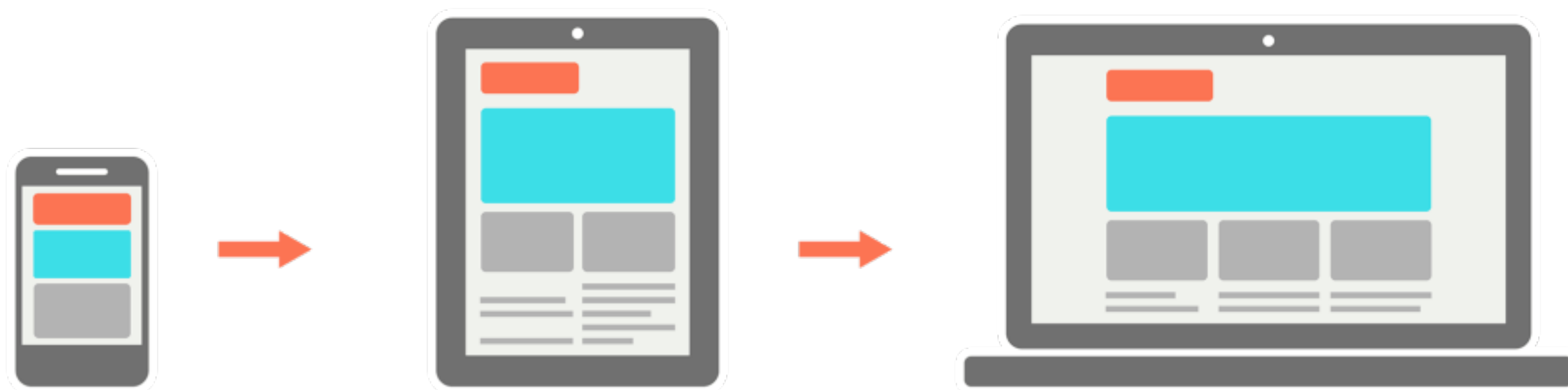




Responsive Web Design

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Mobile First Web Design



“We’ve failed on mobile”

— Alex Russell

<https://youtu.be/K1SFnrf4jZo>

# Mobile Hates You!

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How to fight back:

Implement PRPL

Get a ~\$150-200 unlocked Android (e.g. Moto G4)

Use `chrome://inspect` & `chrome://inspect?tracing`

Lighthouse

DevTools Network & CPU Throttling

# The PRPL Pattern

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**Push**

**Render**

**Pre-cache**

**Lazy-load**



# The PRPL Pattern

---

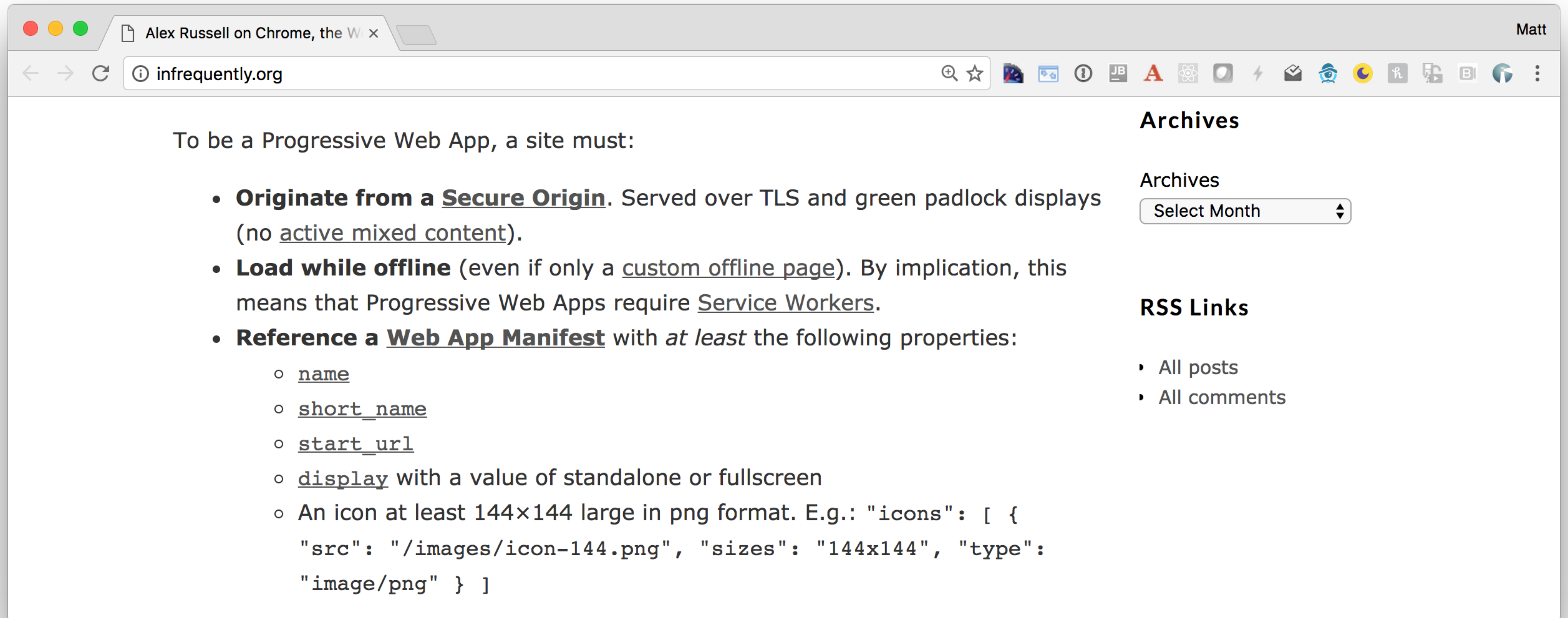
**Push** critical resources for the initial URL route

**Render** initial route

**Pre-cache** remaining routes

**Lazy-load** and create remaining routes on demand

# Progressive Web Apps




# Stormpath SDK for Angular




Build an Angular 2 Application x

Matt

<https://stormpath.com/blog/angular-2-user-authentication>

 Docs Product ▾ Pricing Customers More ▾ Login [SIGN UP NOW](#)

## Build an Angular 2 Application with User Authentication in 10 Minutes

 by Matt Raible | November 14, 2016 | [Javascript](#)

Today I'm happy to announce [the first \(beta\) release of Stormpath's Angular 2 support](#)! The npm module is called `angular-stormpath` and you can easily installing it using `npm install --save angular-stormpath`. If you'd like to try Angular 2 with Stormpath without writing any code, you can checkout the project from GitHub and run its demo. You will need to have your Stormpath API key setup for this to work.

```
git clone https://github.com/stormpath/stormpath-sdk-angular.git
cd stormpath-sdk-angular
npm install
npm start
```

If you'd like to learn how to integrate our Angular 2 components into your own application, continue reading!


### What Is Stormpath?


Stormpath is an API service that allows developers to create, edit, and securely store user accounts and user account data, and connect them with one or multiple applications. We make user account management a lot easier, more secure, and infinitely scalable. To get started [register for a free account](#).


#### Explore the Topic


[.NET](#) [General](#) [Java](#)  
[Javascript](#) [Mobile](#) [Node](#)  
[PHP](#) [Python](#) [REST API](#)

#### Share a Post

 34

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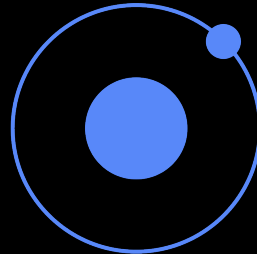
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[Support](#)

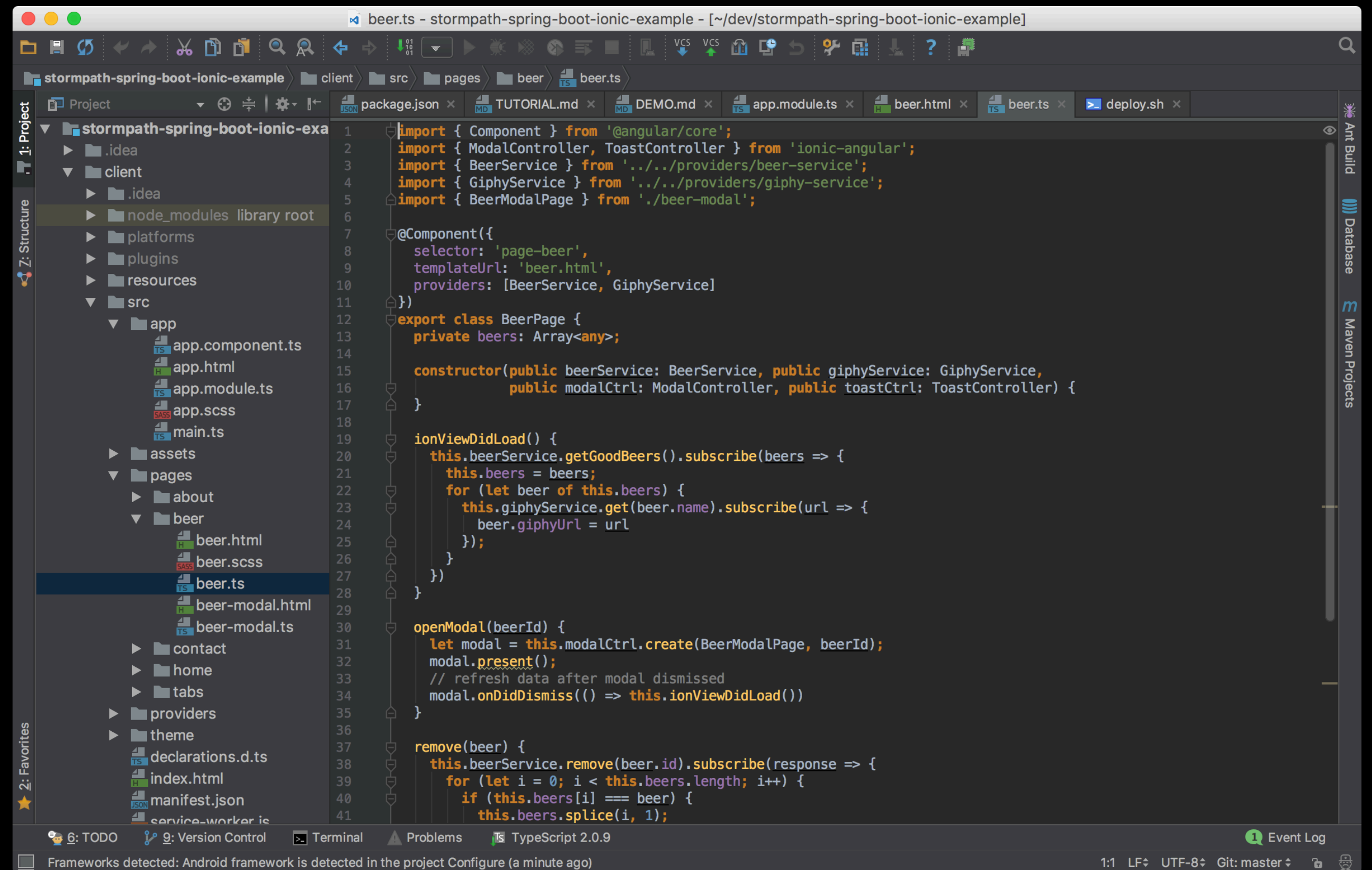
# Live Coding!

Create 🍺 API 

Create UI  ionic

Add Stormpath 

Deploy to iOS 

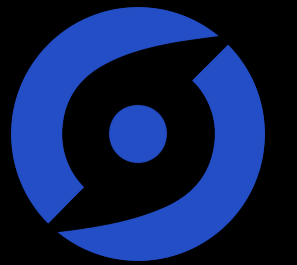


```
1 import { Component } from '@angular/core';
2 import { ModalController, ToastController } from 'ionic-angular';
3 import { BeerService } from '../providers/beer-service';
4 import { GiphyService } from '../providers/giphy-service';
5 import { BeerModalPage } from './beer-modal';
6
7 @Component({
8   selector: 'page-beer',
9   templateUrl: 'beer.html',
10  providers: [BeerService, GiphyService]
11 })
12 export class BeerPage {
13   private beers: Array<any>;
14
15   constructor(public beerService: BeerService, public giphyService: GiphyService,
16     public modalCtrl: ModalController, public toastCtrl: ToastController) {
17   }
18
19   ionViewDidLoad() {
20     this.beerService.getGoodBeers().subscribe(beers => {
21       this.beers = beers;
22       for (let beer of this.beers) {
23         this.giphyService.get(beer.name).subscribe(url => {
24           beer.giphyUrl = url;
25         });
26       }
27     });
28   }
29
30   openModal(beerId) {
31     let modal = this.modalCtrl.create(BeerModalPage, beerId);
32     modal.present();
33     // refresh data after modal dismissed
34     modal.onDidDismiss(() => this.ionViewDidLoad());
35   }
36
37   remove(beer) {
38     this.beerService.remove(beer.id).subscribe(response => {
39       for (let i = 0; i < this.beers.length; i++) {
40         if (this.beers[i] === beer) {
41           this.beers.splice(i, 1);
```



# Resources

---



## Demo Code

[https://github.com/stormpath/  
stormpath-spring-boot-ionic-example](https://github.com/stormpath/stormpath-spring-boot-ionic-example)

## Step-by-step Tutorial

[https://github.com/stormpath/  
stormpath-spring-boot-ionic-example/  
blob/master/TUTORIAL.md](https://github.com/stormpath/stormpath-spring-boot-ionic-example/blob/master/TUTORIAL.md)





# LEARN IONIC

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# **Shortcut** to becoming an Ionic Expert

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# **JUST DO IT.**

# **Shortcut** to becoming an Ionic Expert

---

# **JUST DEV IT.**







# Questions?

Keep in touch!

 [raibledesigns.com](http://raibledesigns.com)

 [@mraible](https://twitter.com/mraible)

 [linkedin.com/in/mraible](https://linkedin.com/in/mraible)

Presentations

 [slideshare.net/mraible](https://slideshare.net/mraible)

Code

 [github.com/mraible](https://github.com/mraible)

