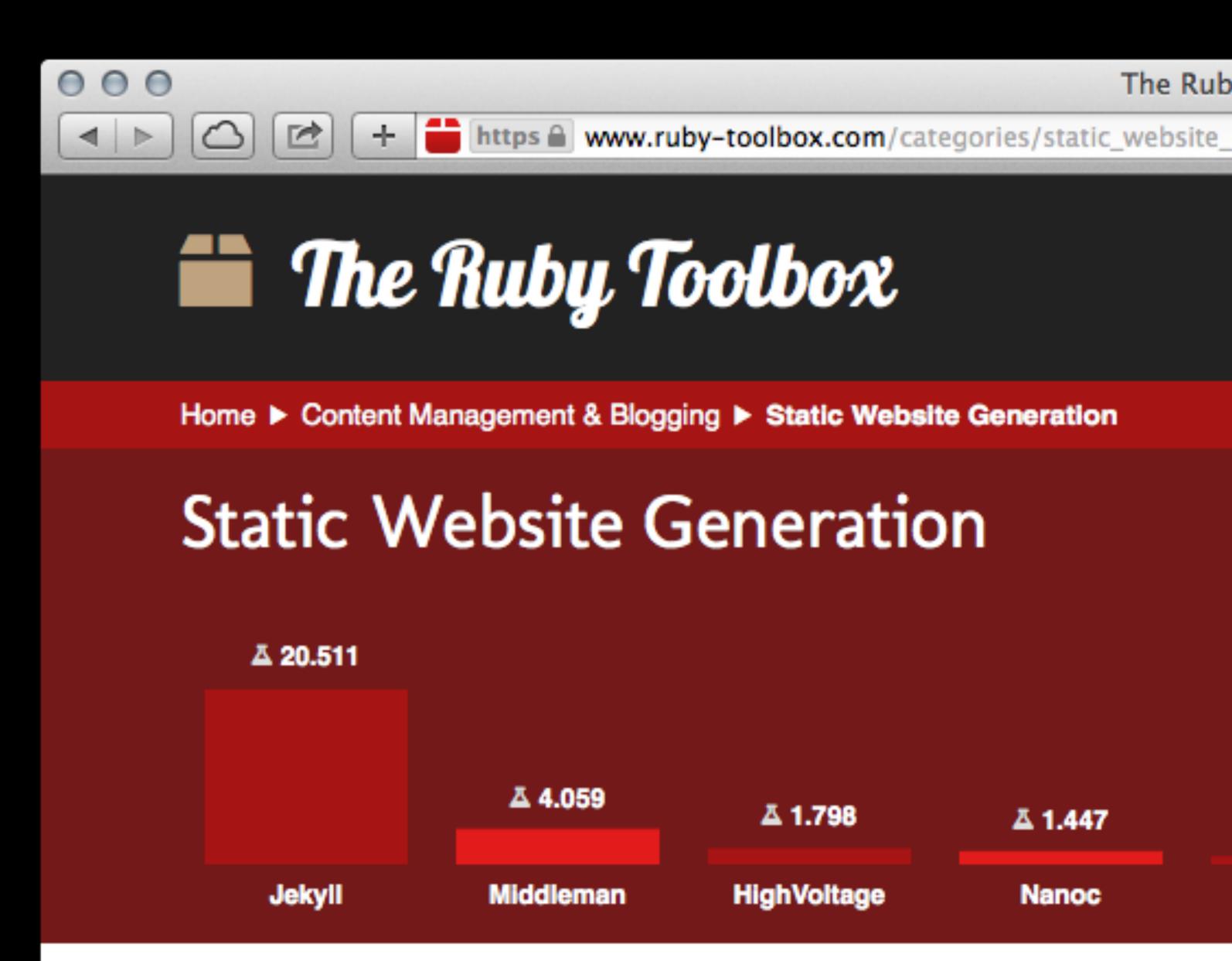


The missing view in the Rails API stack

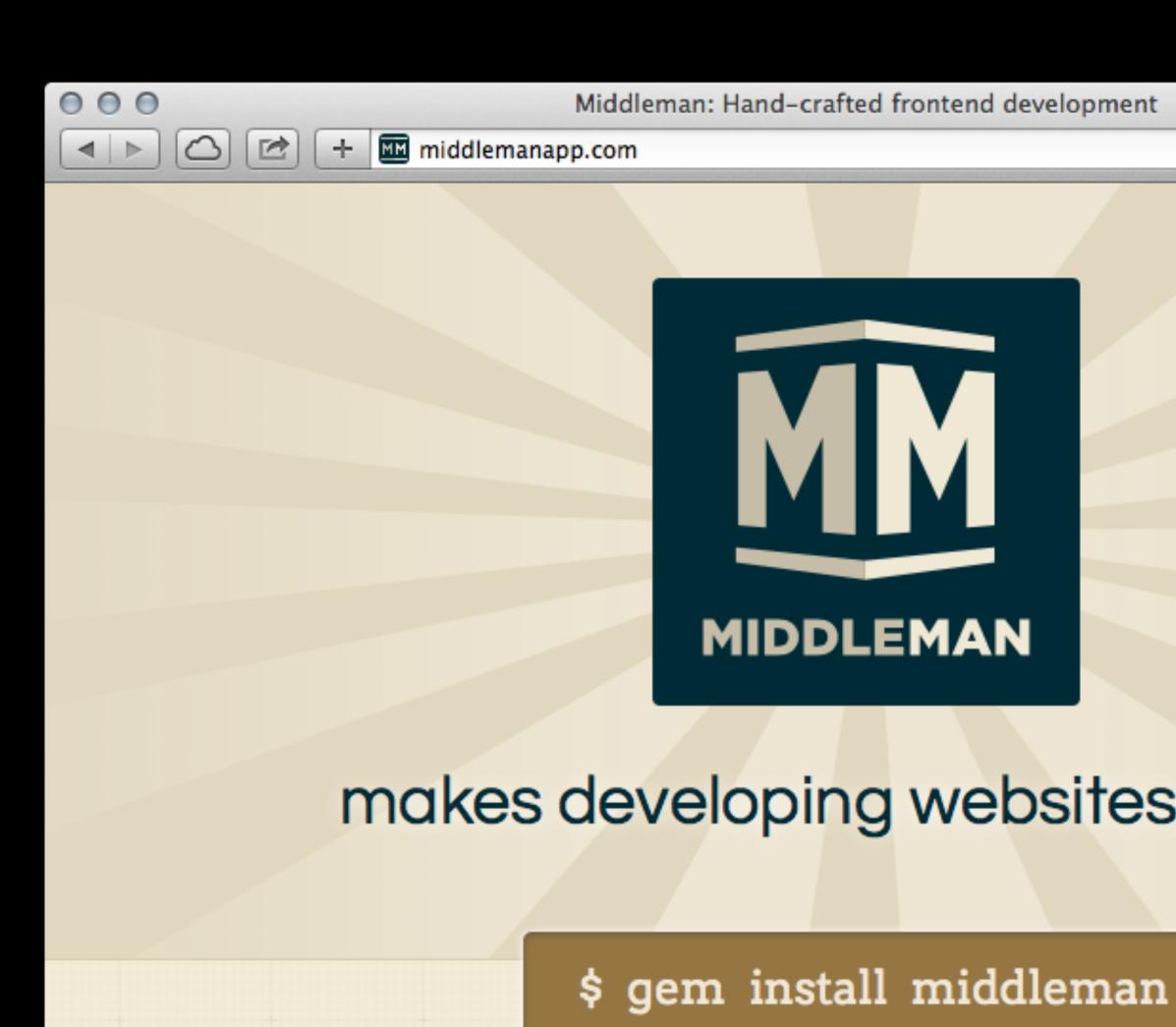
@bradgessler

CTO & Cofounder of Poll Everywhere

HS IIKE JEKYII



Middleman is extraordinarily well documented

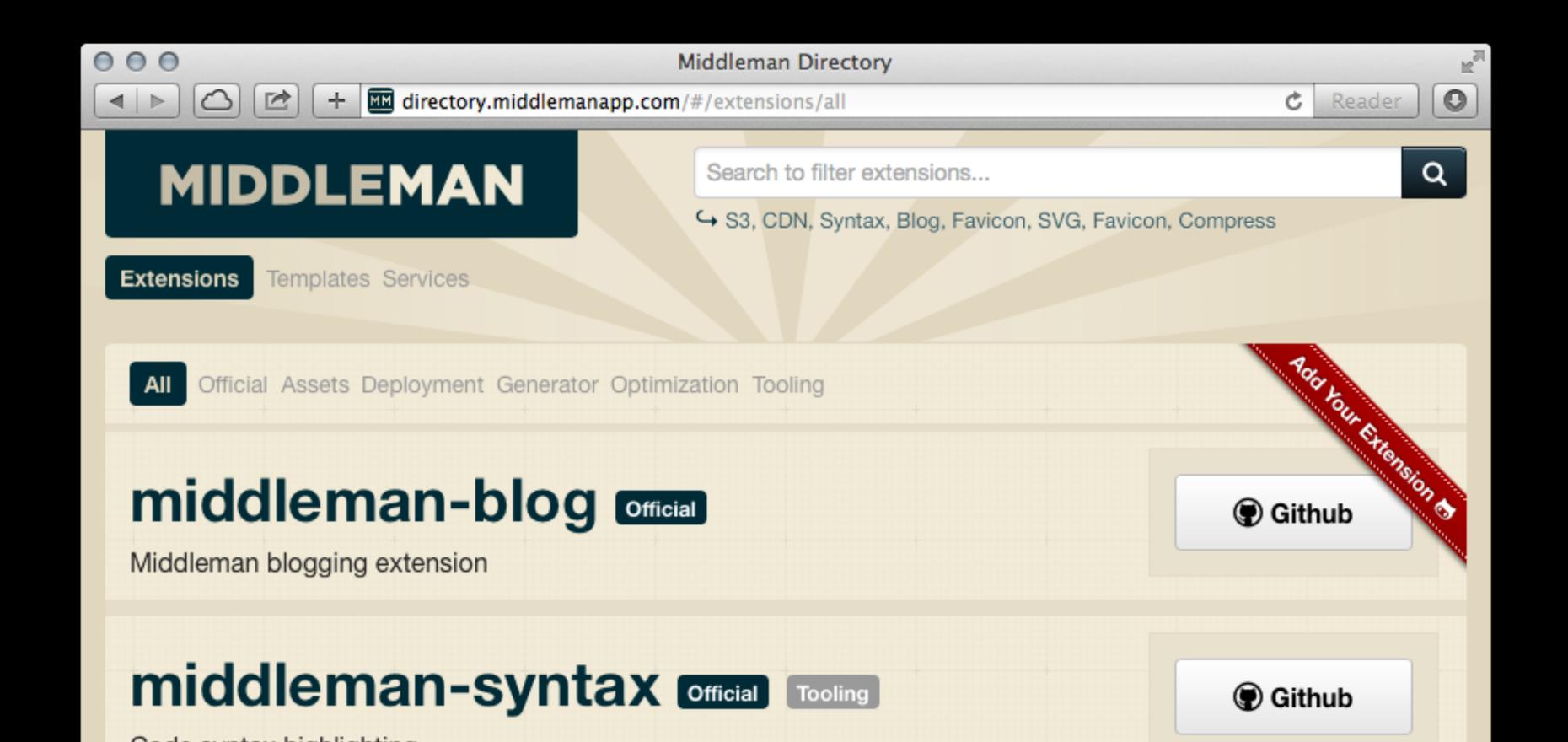


Q Search the documentation

Follow @middlemanapp

Middleman is a static site generator using all the shortcuts and tools in modern w

Middleman is modular with a rich ecosystem of extensions



\$ gem install middleman

```
$ cd my-app ; middleman server
== The Middleman is standing watch at http://0.0.0.0:4567
```

Getting Started with Middleman

Has all of the same front-end goodies from Rails, so you'll feel right at home

```
gem 'haml'
gem 'sass'
gem 'sprockets'
gem 'coffeescript'
gem 'compass'
gem 'activesupport'
gem 'susy'
```

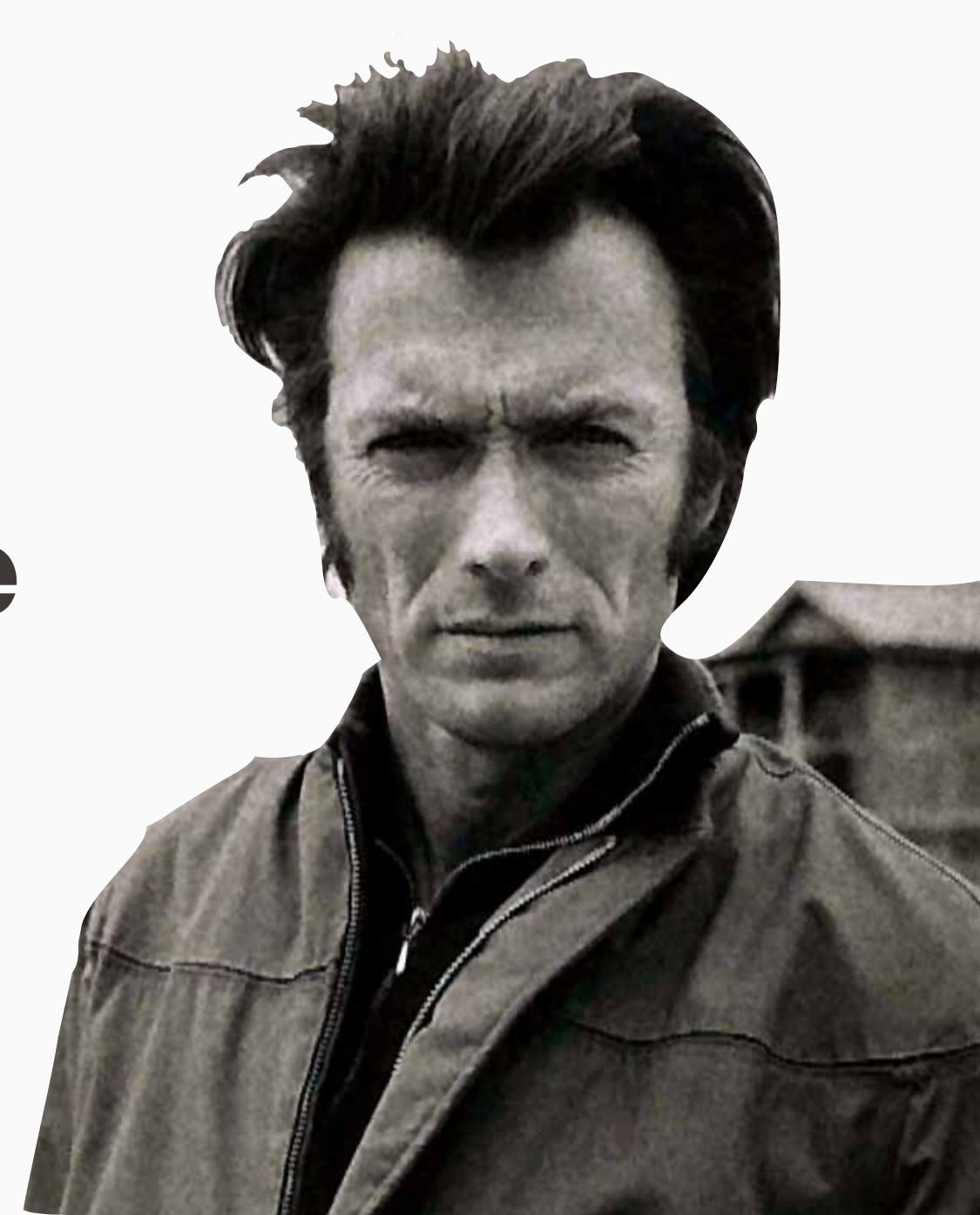
Middleman is multi-environment # //config.rb

```
# ./config.rb
# Local dev server settings
configure :development do
  activate :livereload
end
# Production settings
configure :build do
  activate :minify_css
  activate :minify_javascript
  activate :asset hash
end
```

A simple two step deploy process

```
task :build do
  sh 'bundle exec middleman build'
end
task :upload do
  sh 'rsync -avz ./build/ deployer@site.com:/www/'
end
task deploy: %w[build upload]
```

Yeah, so what?
Why should I care about Middleman?



Web apps fall somewhere within a spectrum of dynacism

Dynamic

Realtime visualizations

Poll Ev graphs

Middleman JS MVC Library

GUI-oriented applications

Google Spreadsheets

Document-oriented web apps

Invoicing application

Blogging platform

Svbtle, Posthaven

Rails

Rails

More caching

Less caching

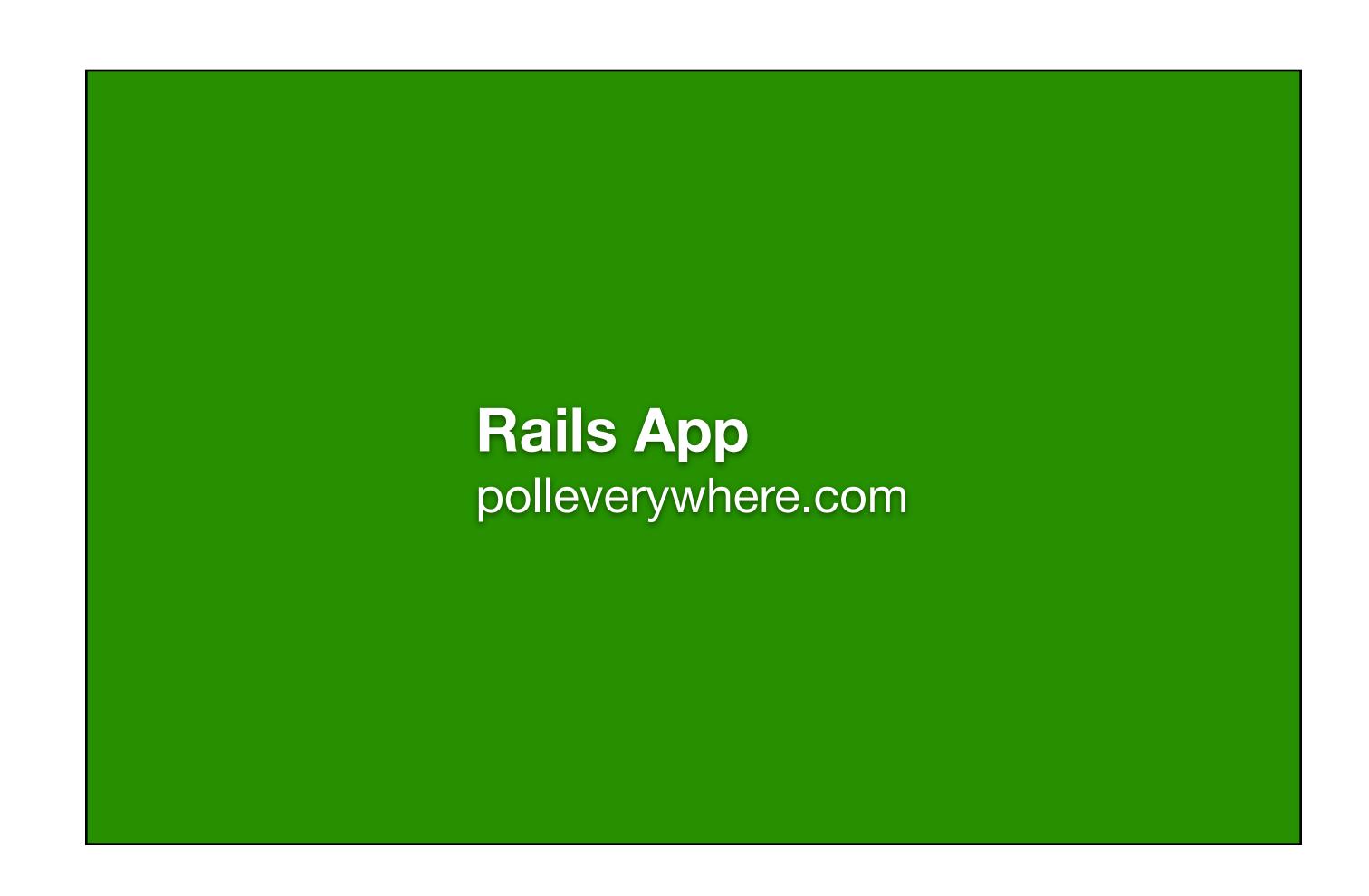
Personal blog

bradgessler.com

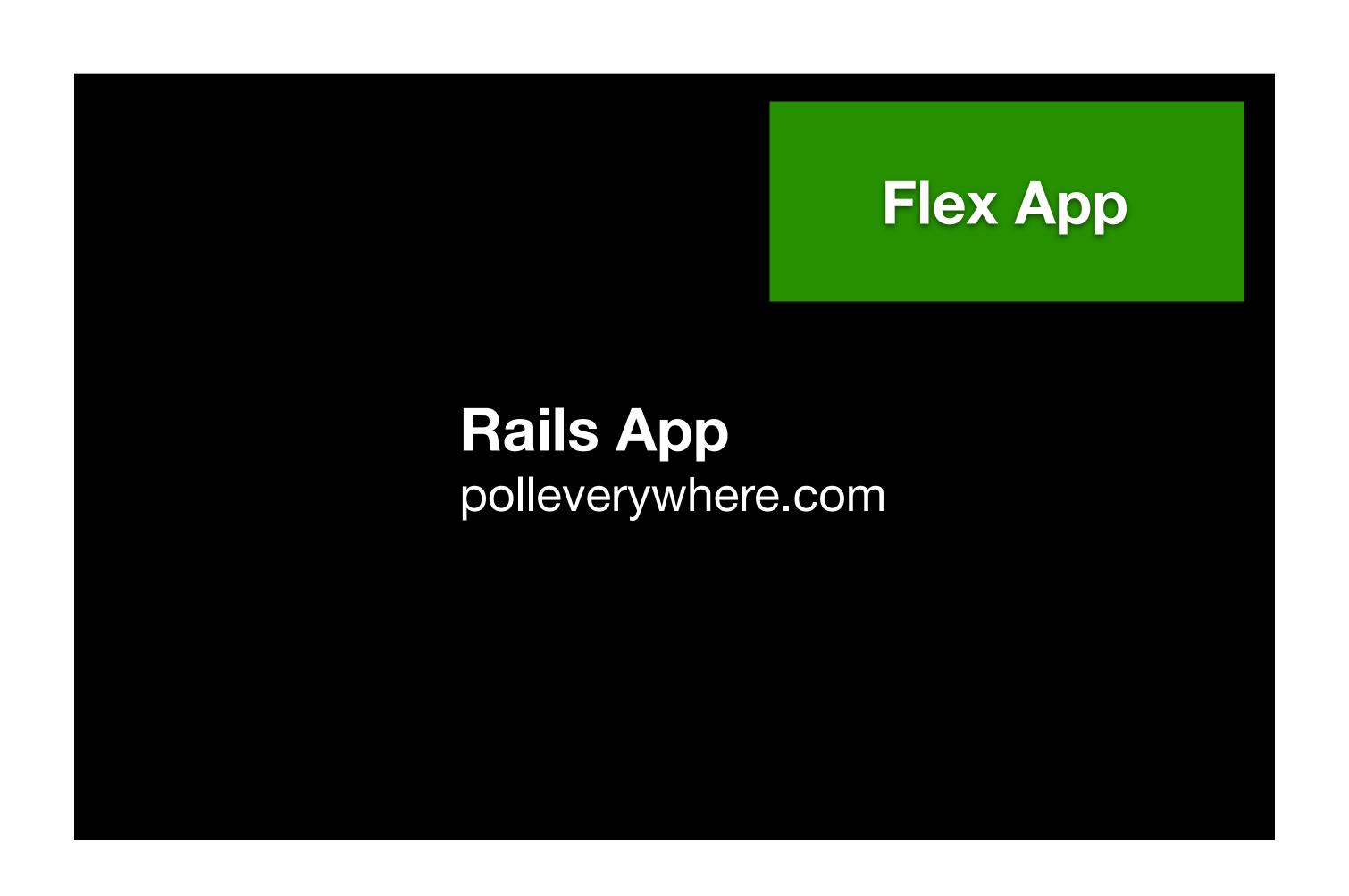
Informational website Steve's Plumbin' Services Middleman HTML content

Static

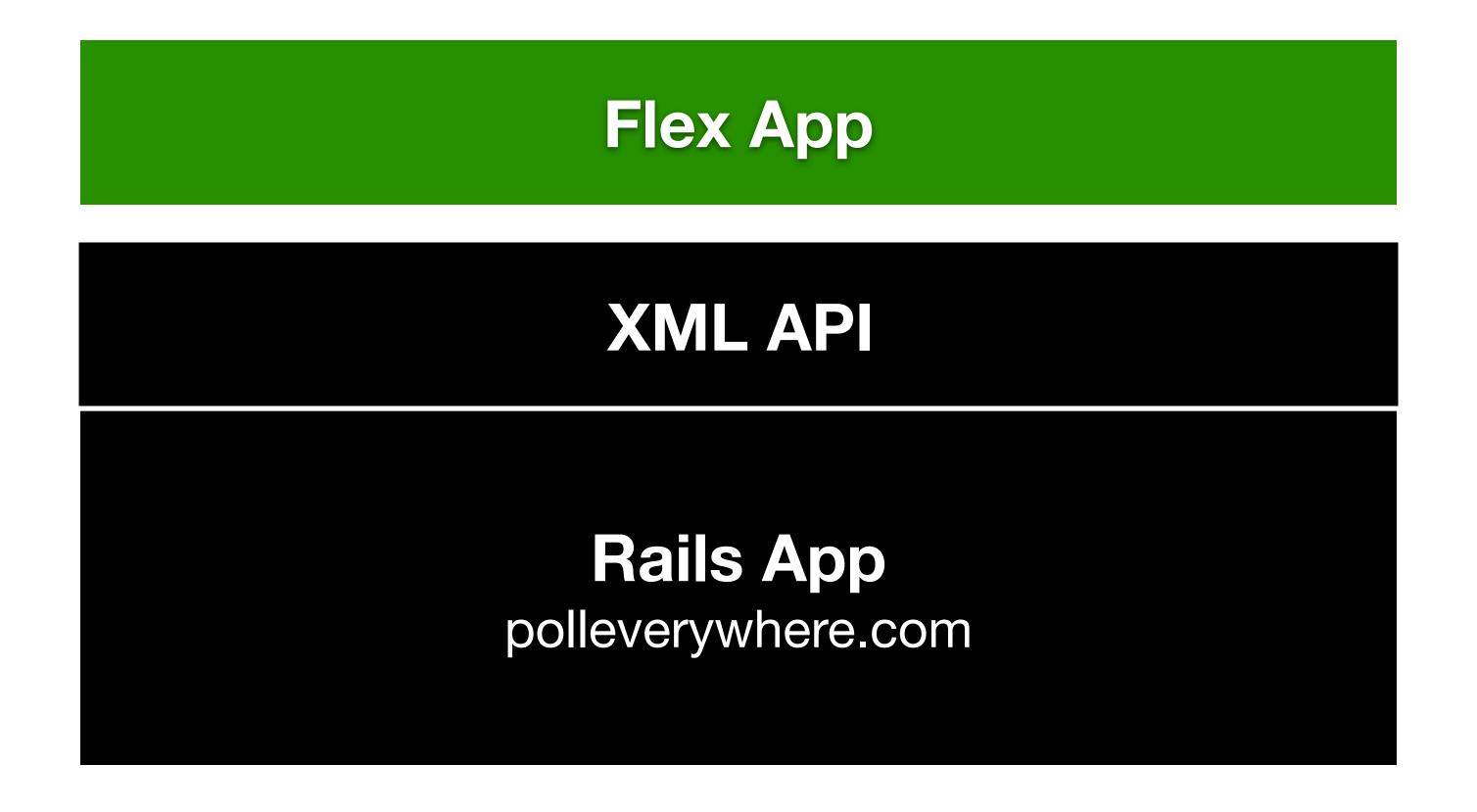
Say hello to the polleverywhere.com **Rails** app circa 2008



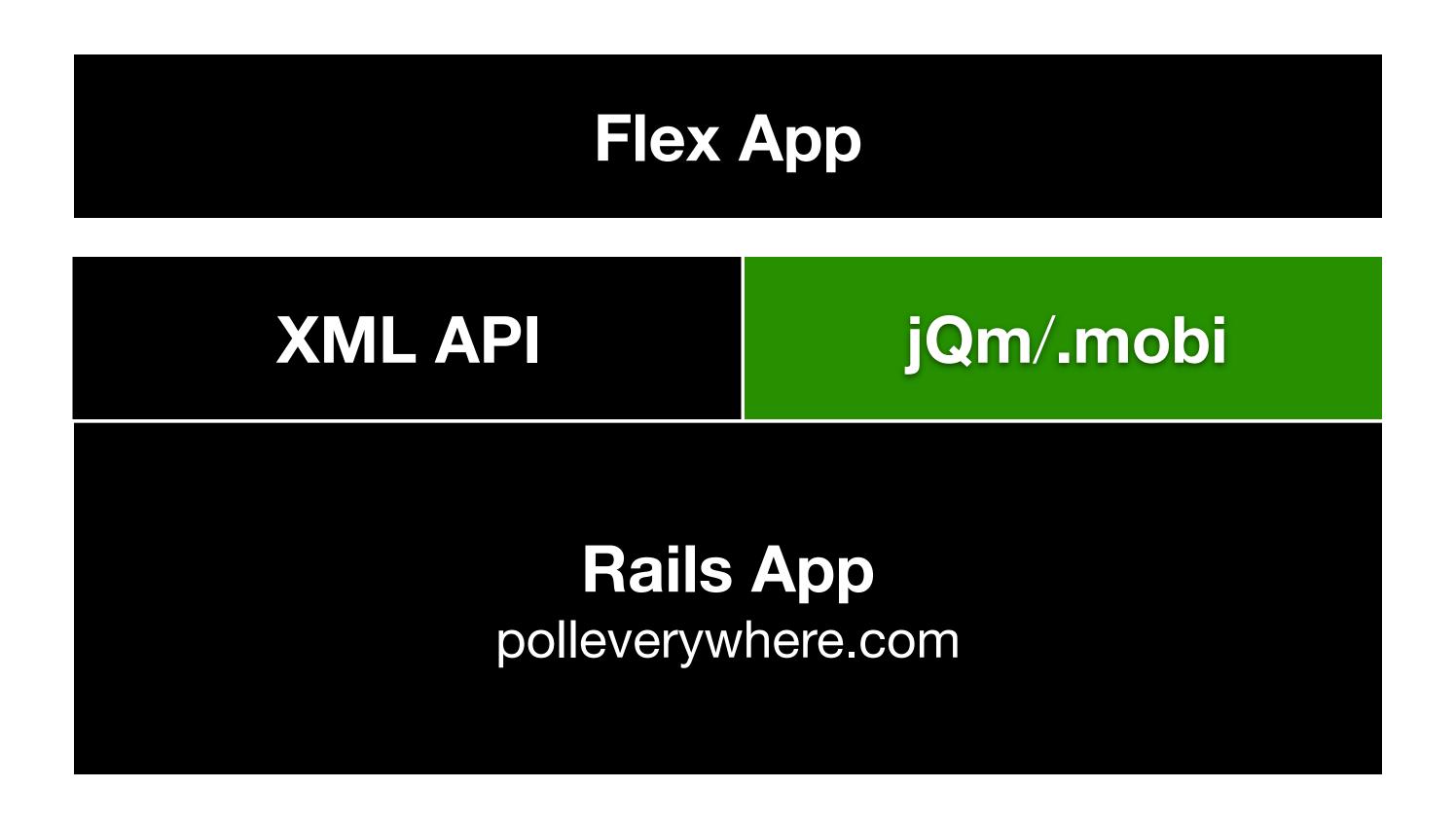
A Flex app was created within the rails project for PowerPoint visualizations



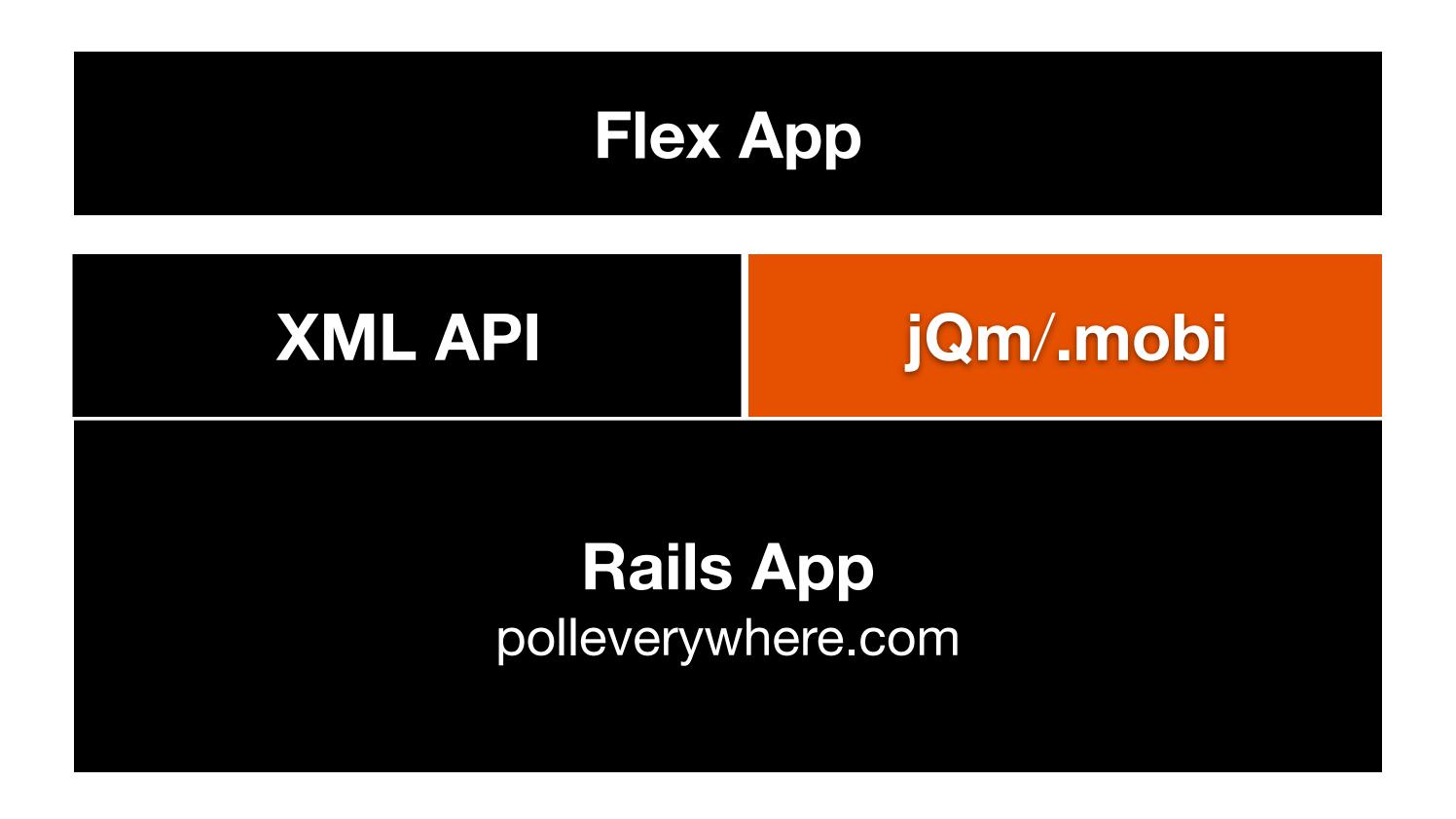
We broke the Flex app into its own project so that our Flex contractor could **deploy independently from the Rails app** team



Smart phones started taking off, so we built .mobi extension views in Rails with jQuery mobile



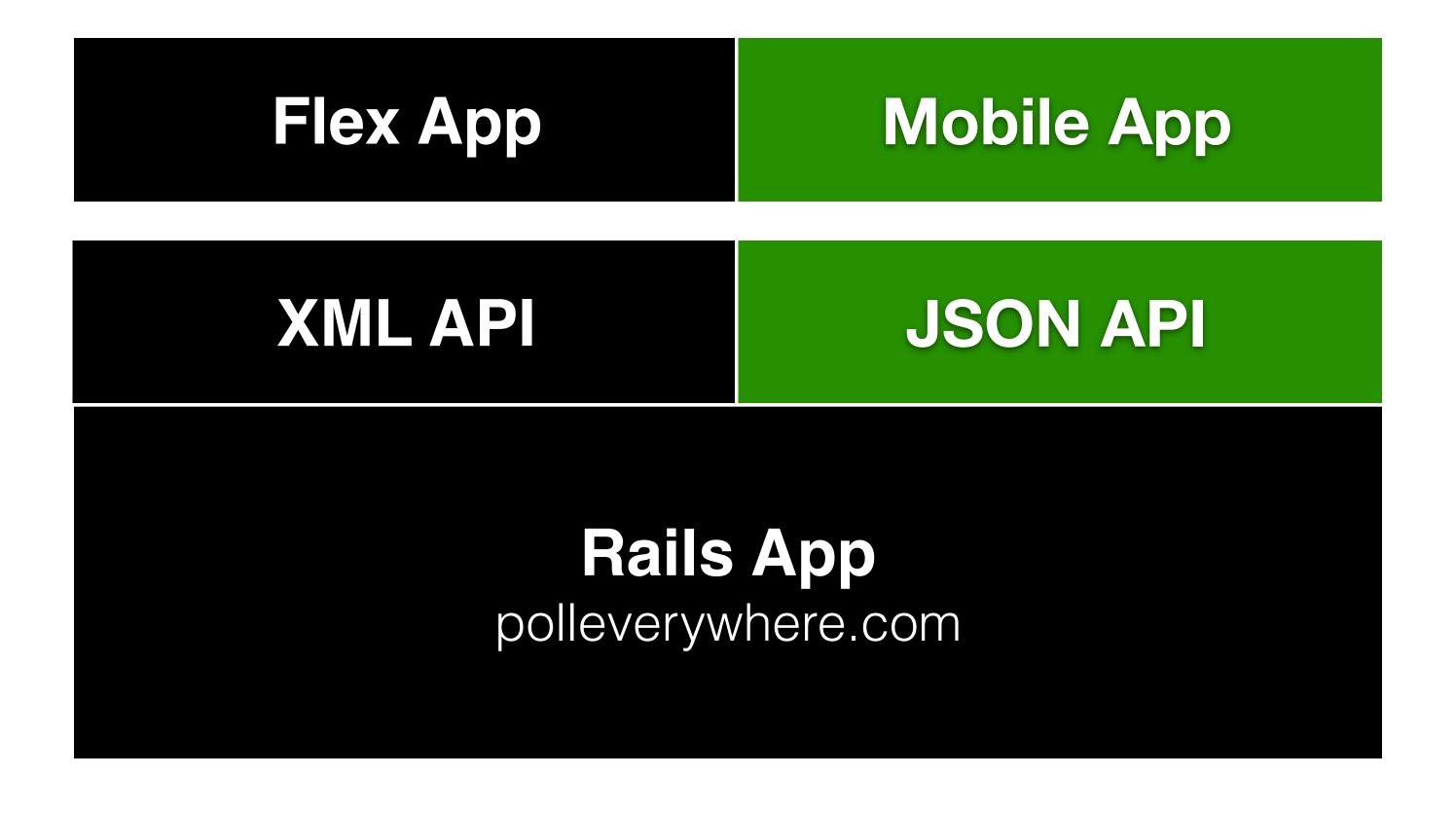
jQuery mobile and .mobi was a big disaster. Framework got us 80% there, the other 20% was painful and error prone



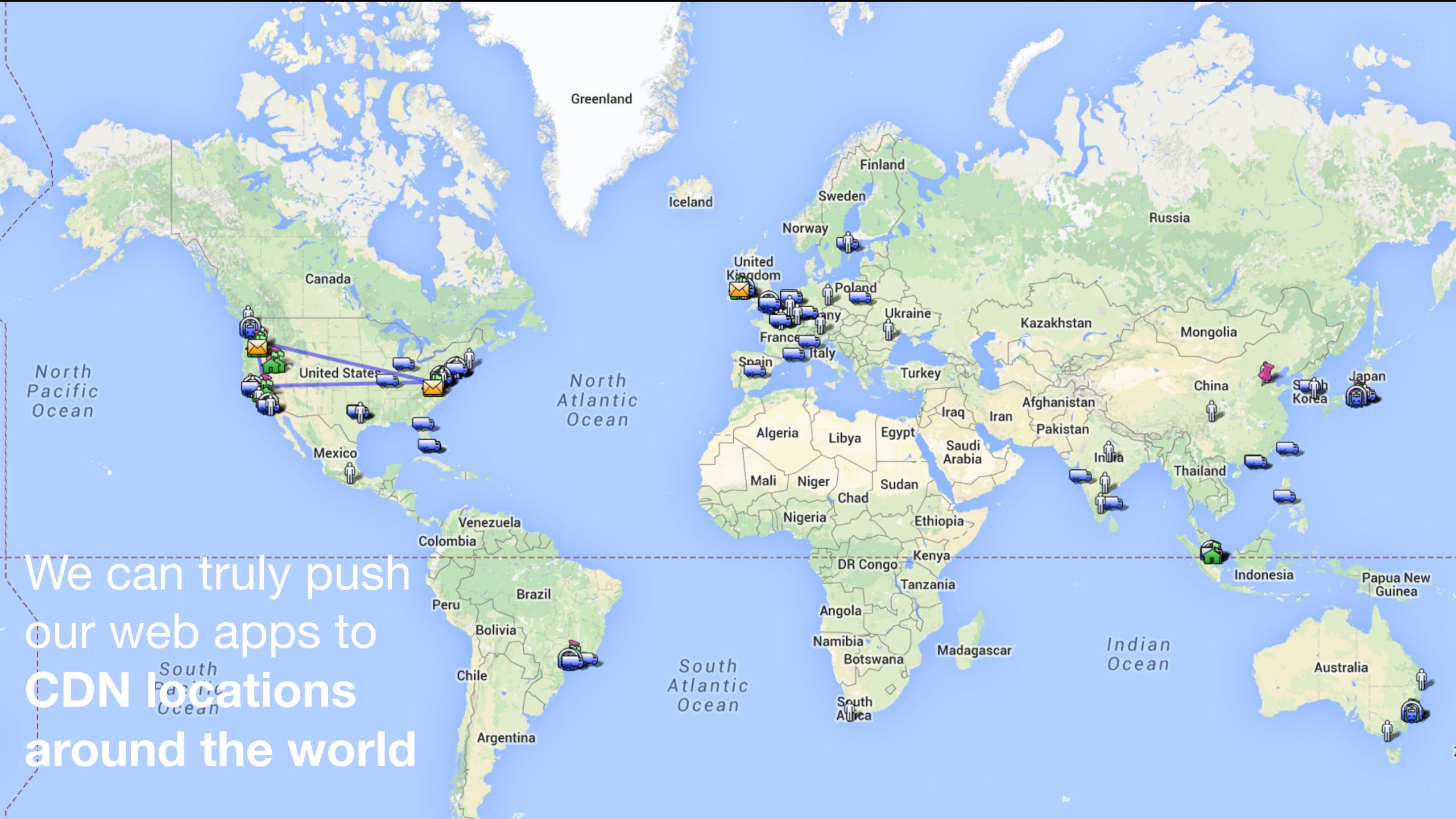
Our team made the decision to hand pick libraries to have exactly what we need, when we need it.

Framework agnostic Middleman would be there to manage all of the assets

Our first **single page HTML application** was built in Middleman at PollEv.com



Cross-origin resource sharing

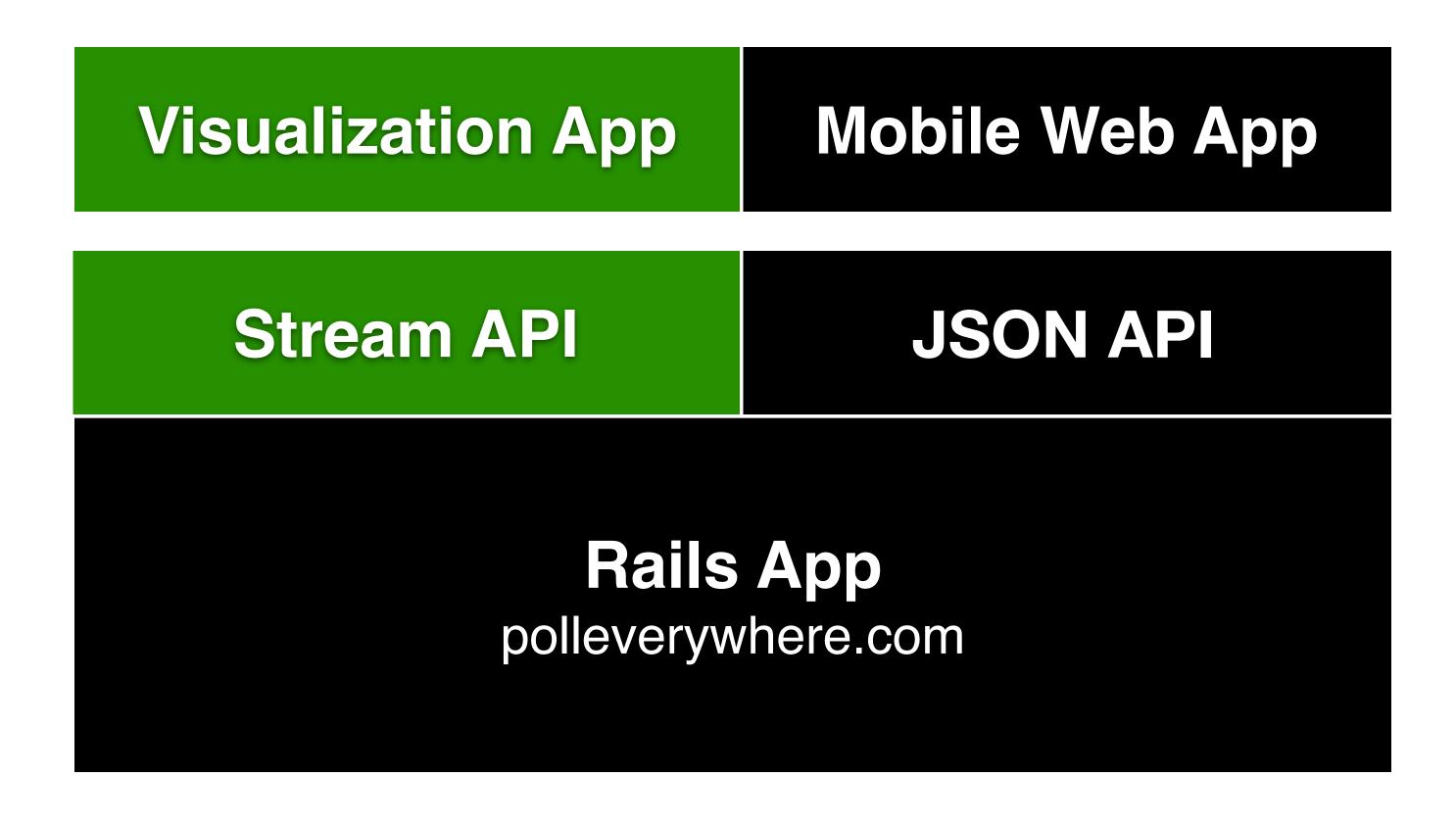


... or to floppy disks and Cordova apps

Flash was on its deathbed, so we set out to replace the Flex app with another single page Middleman app

Mobile Web App Visualization App JSON API polleverywhere.com

To reduce latency, a **Stream API** was deployed to production



Stream API was isolated to its own host and server fleet for isolation and stability purposes. Client-side SOA allowed us to start using the Stream API, stabilize in production, gain confidence, and ensure a smooth rollout.

More apps emerge on the scene, how do we keep it all DRY?

Mobile Web
App

PowerPoint App

Keynote App

Visualization

App

JSON API

Stream API

Rails App

Extract common Coffeescript, Sass, assets into a sprockets asset gem

Mobile Web App

PowerPoint App

Keynote App

Visualization App

Sprockets Asset Gem

JSON API

Stream API

Rails App

Create a **sprockets asset gem** to share assets between apps

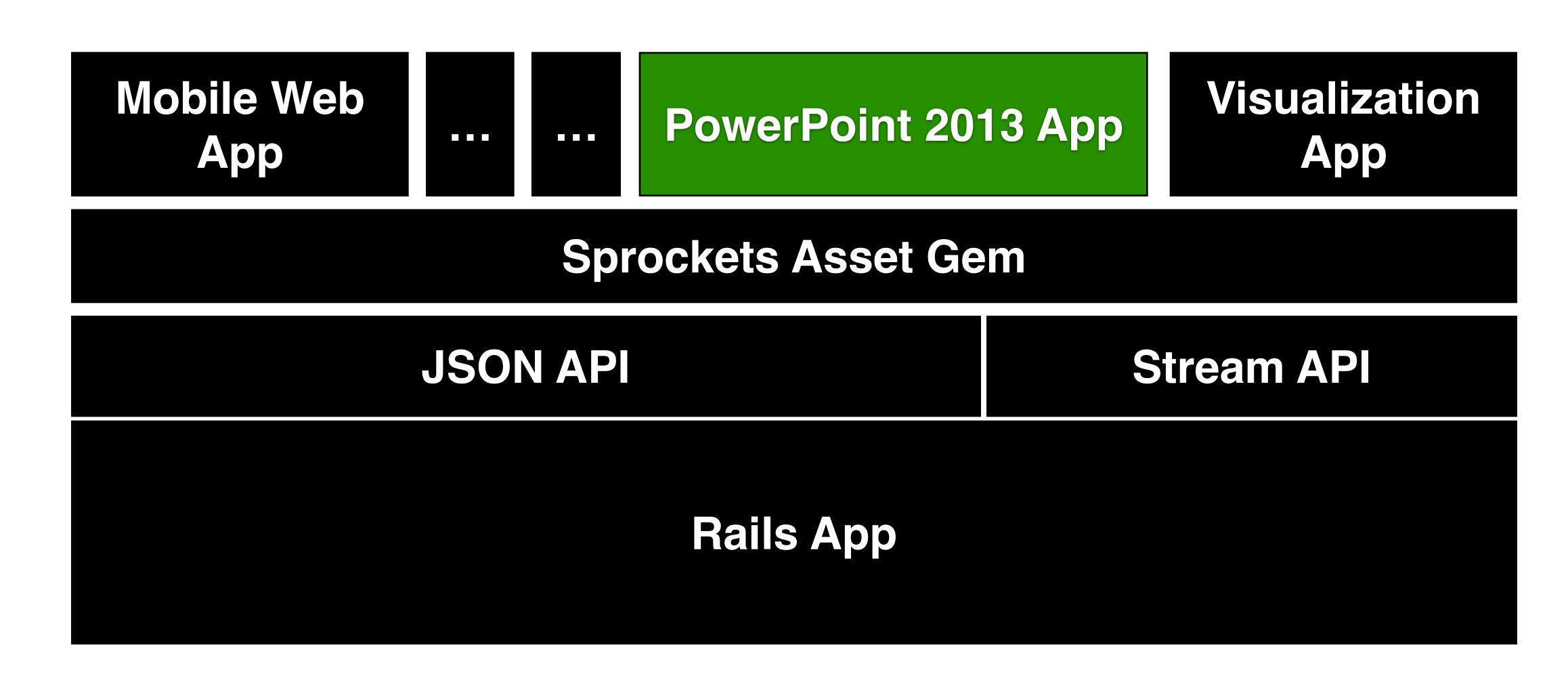
```
# The ./lib/pollev_assets.rb file
require 'pollev_assets/version'

if defined? Sprockets
   Sprockets.env.append_path 'lib/assets/javascripts'
   Sprockets.env.append_path 'lib/assets/stylesheets'
   Sprockets.env.append_path 'vendor/assets/javascripts'
end
```

```
# App ./Gemfile
if path = ENV['ASSETS_GEM_PATH']
  gem "pollev_assets", path: path
else
  gem "pollev_assets", branch: 'new-feature'
end
```

Manage asset gem dependencies and branches with Bundler

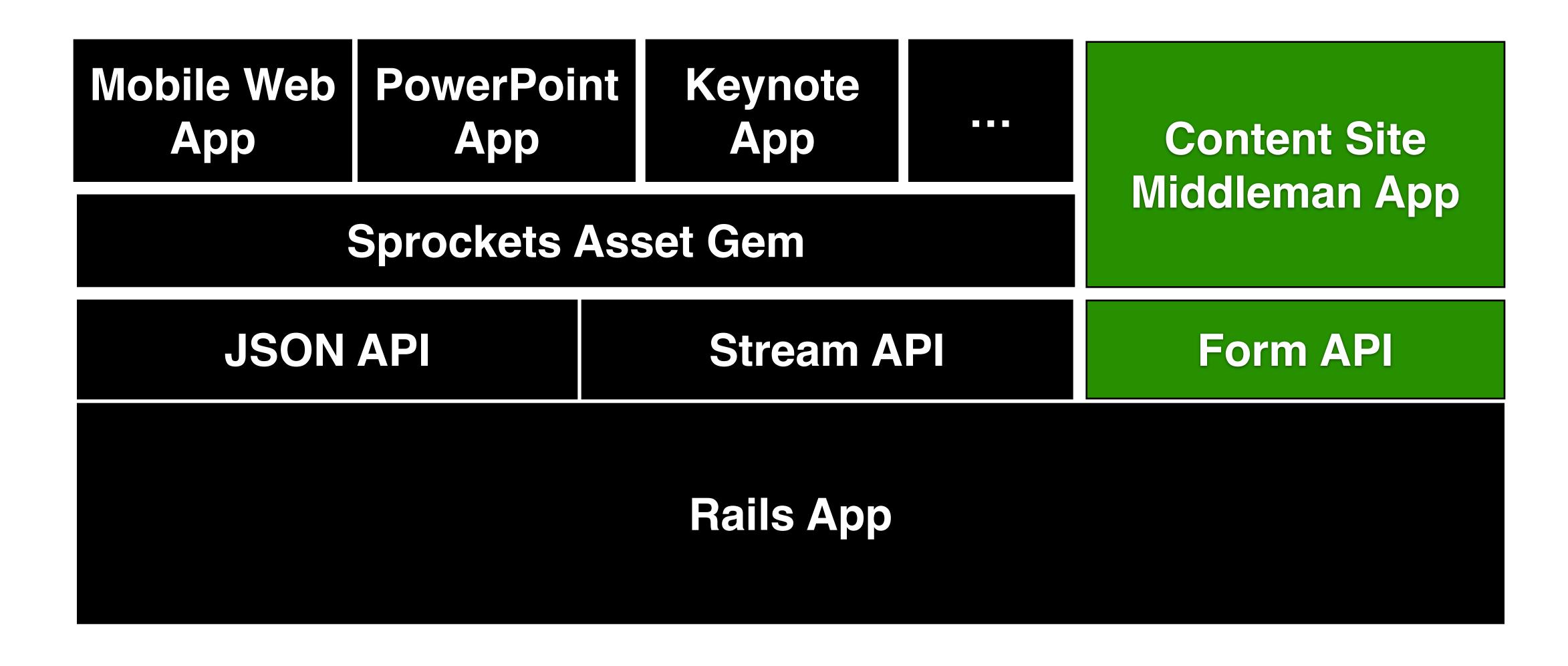
We **reused** mobile app **assets** to build PowerPoint 2013 app in 2 weeks



No out-of-box solution exist for organizing JS MVC apps in Middleman

What about static websites?

Extract content from Rails app so marketing team can move faster



Some dynamic components are still required

Render login state via JavaScript snippet

Integration between Middleman content site and Rails app should have well defined and tested integration points

Stripe.js, GA, Optimizely are all dynamic tools that can be integrated into a static website

Why bother with a static content website?

Don't let "TechCrunched" or HN'ed or whatever the cool kids call it these days bring down your site

Introduce completely different workflows into content production without a heavy CMS

Easier deployments, can you upload a file?

...a few things I didn't cover

How to not use hash bang URLs with pushState

12-factor middleman apps

Validate test, staging, and any other environment with acceptance tests

The state of exception monitoring in production environments

Building an API side-by-side with client code deployments





getfannypack.com



Join our team!

polleverywhere.com/jobs

@bradgessler

for slides, links, and code