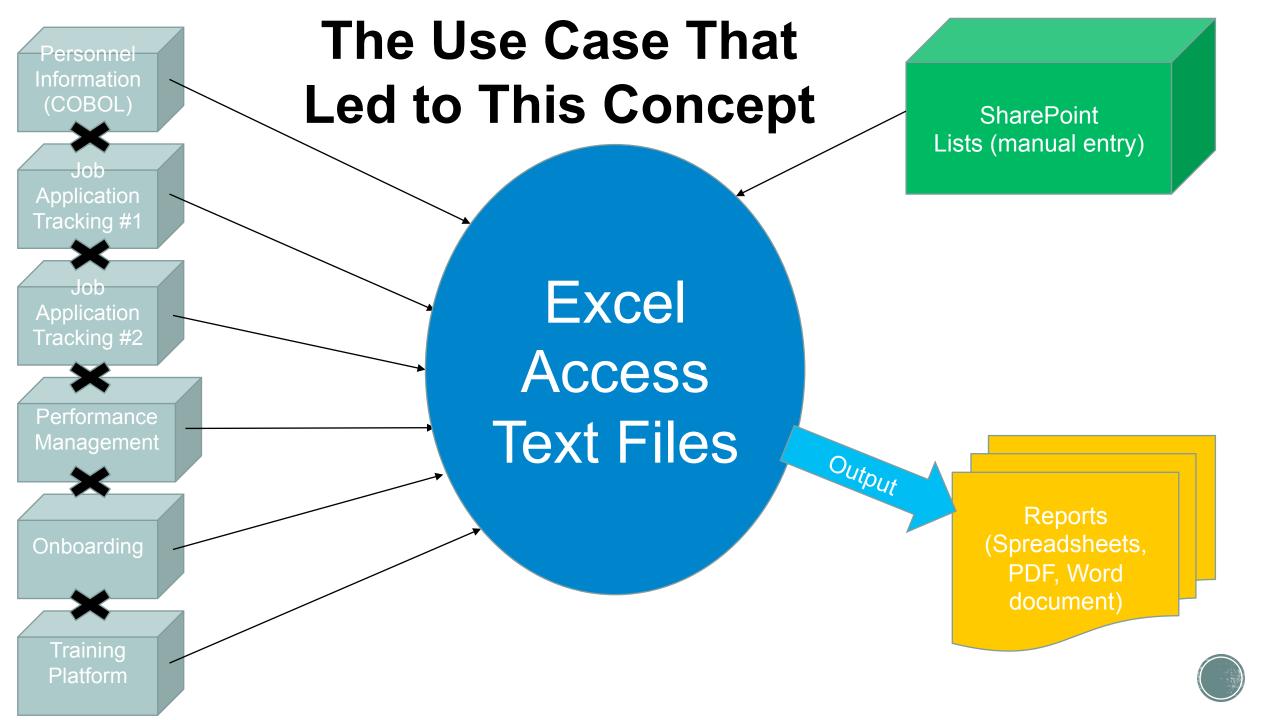
Shiny Headless Drupal: A MVP of Drupal, R, and the MEAN Stack

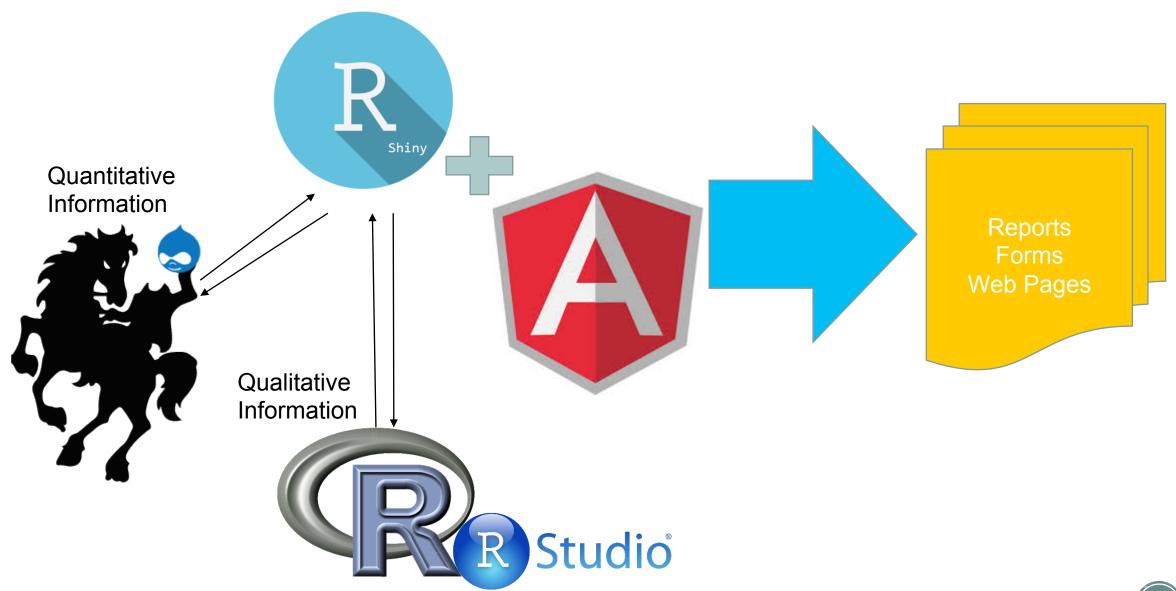
Bill Brantley

Drupal GovCon 2015





The Original Concept



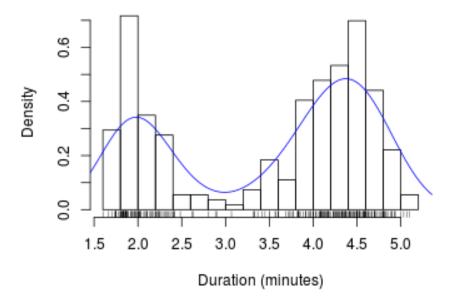


Number of bins in histogram (approximate):

20 ▼

- ✓ Show individual observations
- ✓ Show density estimate

Geyser eruption duration



Bandwidth adjustment:



ui.R

server.R

```
shinyUI(bootstrapPage(
 selectInput(inputId = "n_breaks",
     label = "Number of bins in histogram (approximate):",
     choices = c(10, 20, 35, 50),
     selected = 20),
 checkboxInput(inputId = "individual_obs",
     label = strong("Show individual observations"),
     value = FALSE),
 checkboxInput(inputId = "density",
     label = strong("Show density estimate"),
     value = FALSE),
 plotOutput(outputId = "main_plot", height = "300px"),
 # Display this only if the density is shown
 conditionalPanel(condition = "input.density == true",
   sliderInput(inputId = "bw_adjust",
       label = "Bandwidth adjustment:",
       min = 0.2, max = 2, value = 1, step = 0.2)
```

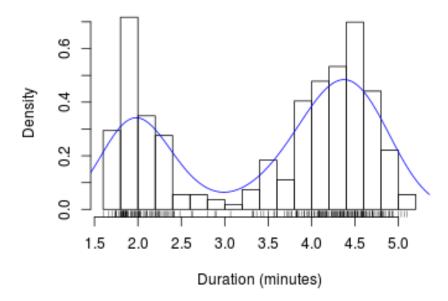


Number of bins in histogram (approximate):



- Show individual observations
- ✓ Show density estimate

Geyser eruption duration



Bandwidth adjustment:

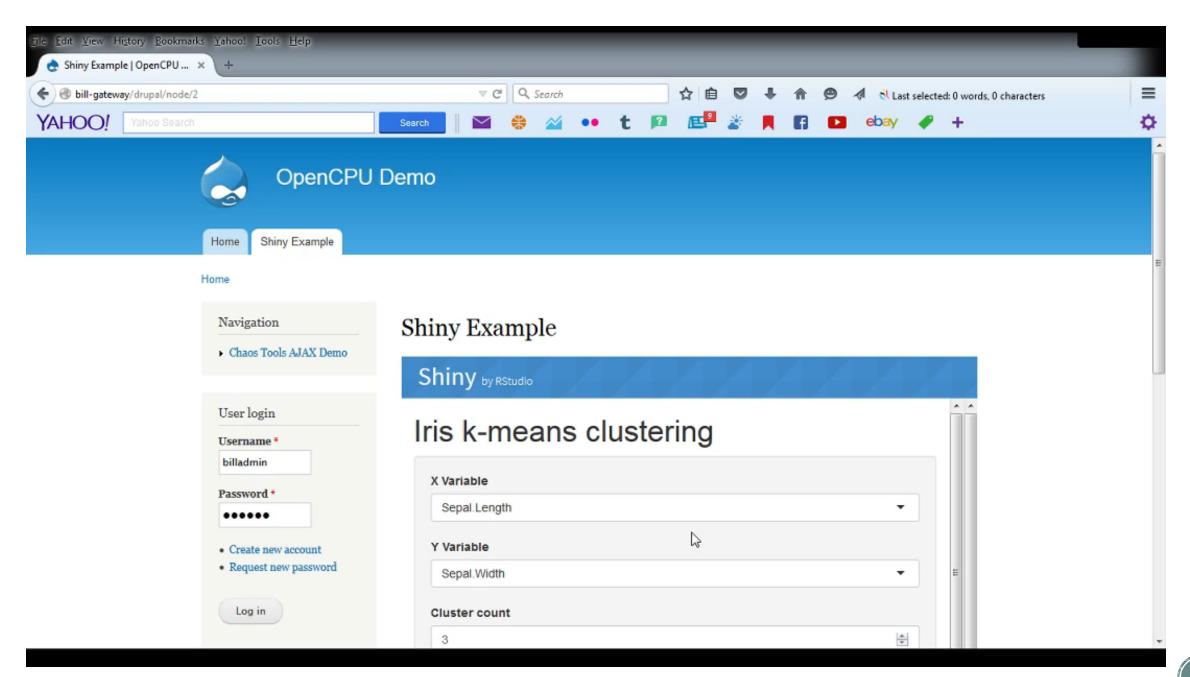


ui.R

server.R

```
shinyServer(function(input, output) {
 output$main_plot <- renderPlot({
   hist(faithful$eruptions,
     probability = TRUE,
     breaks = as.numeric(input$n_breaks),
     xlab = "Duration (minutes)",
     main = "Geyser eruption duration")
   if (input$individual_obs) {
      rug(faithful$eruptions)
   if (input$density) {
     dens <- density(faithful$eruptions,
          adjust = input$bw_adjust)
      lines(dens, col = "blue")
```





What You Need:

- R and RStudio
- Install Shiny and **Dependencies through RStudio**
- Account on www.shinyapps.io
- Github Account
- Drupal 7
- **Entity API module**
- **Entity Iframe module**

Entity API

Version control Automated Testing

Posted by fago on November 7, 2009 at 1:37pm

This module extends the entity API of Drupal core in order to provide a unified way to deal with entities and their properties. Additionally, it provides an entity CRUD controller, which helps simplifying the creation of new entity types.

Requirements

Drupal 7.2 or later; suggested Drupal >= 7.15

Documentation

You can find documentation in the handbooks, Also check the README and the provided API docs in entity.api.php.

Maintainers for Entity API

fago - 479 commits last: 9 months ago, first: 5 years ago

View all committers View commits

Issues for Entity API

To avoid duplicates, please search before submitting a new issue. Advanced search

Entity iframe

Version control Automated Testing

Posted by btopro on April 2, 2013 at 5:41pm

Entity iframe provides a simple way of creating and managing the embed-ability of content you are creating in a drupal site. It provides a path that displays an item in a different theme (optionally) which is more appropriate for visualizing in an iframe. There are several simple settings for modifying and controlling the output when viewing an entity as an iframe. This provides a consistent path for the rendering an entity in a way that's easy to be displayed in an iframe. An example of when you'd want to use this is when you have entities in a system that are objects for use in other systems (think youtube).

Maintainers for Entity iframe

btopro - 23 commits last: 2 months ago, first: 2 years ago

View all committers View commits

shinyapps.io by RStudio

Home Features Pricing Support Log In



Share your Shiny Applications Online







The Revised Concept



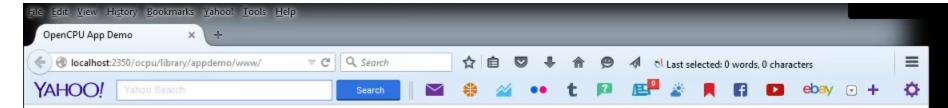
Why?

- ✓ Seamless R and JavaScript Integration
- √The OpenCPU API is a clean and simple interface to R. It is compatible with any language or framework that speaks HTTP.
- √ Statistical Apps
- √ Concurrency by design
- ✓ Easy Installation, Configuration



- ✓ The cloud server builds on AppArmor to enforce security, and Nginx for caching and load balancing.
- ✓ All parts of OpenCPU are released under the Apache2 license.





OpenCPU App Demo

The sole purpose of this OpenCPU app is to demonstrate how to use the opencpu.js library to call R from Javascript using OpenCPU.

Introduction

The opencpu.js library depends on jQuery and provides some convenient wrappers around \$.ajax to call the OpenCPU API. A copy of jquery and opencpu.js must be included with your OpenCPU app.

Topics

Each topic consists of a minimal HTML page demonstrating basic functionality. Look at the source code of the HTML page to learn what is happening.

- 1. Calling a function
- Hello and AngularJS example
- 3. Making a plot
- 4. Include data in a package
- Upload a file
- 6. Chaining functions (use session)



Download & Install

Ubuntu 14.04 (recommended)

```
#requires ubuntu 14.04 (Trusty)
sudo add-apt-repository -y ppa:opencpu/opencpu-1.5
sudo apt-get update
sudo apt-get upgrade

Dual-boot Windows 7 and Ubuntu

#install opencpu server
sudo apt-get install -y opencpu

#optional
sudo apt-get install -y rstudio-server
```

Fedora

Go here to add the opencpu repository. Also have look at the readme for rpm packages.

```
sudo yum install opencpu
```

Debian / CentOS / Suse etc

See the readme on building deb or rpm packages from source.

Docker

Local Single-User Server

```
install.packages("opencpu")
library(opencpu)
```

Installing OpenCPU Apps

```
#install the "gitstats" or "stocks" app from github
library(devtools)
install_github("opencpu/gitstats"
install_github("opencpu/stocks")

#open in single-user server
library(opencpu)
opencpu$browse("/library/gitstats/www")
```

Server Manual PDF



The OpenCPU server manual PDF is the primary reference for installing and managing OpenCPU servers.



Example Apps











gitstats 🕶







1 Package Info

Live App Demo

O Source Code







tvscore ▼



rollcorr ▼





OpenCPU APP: appdemo

The purpose of this OpenCPU app is to demonstrate how to use the opencpu.js library for calling R functions from Javascript using OpenCPU.

Cloud Demo

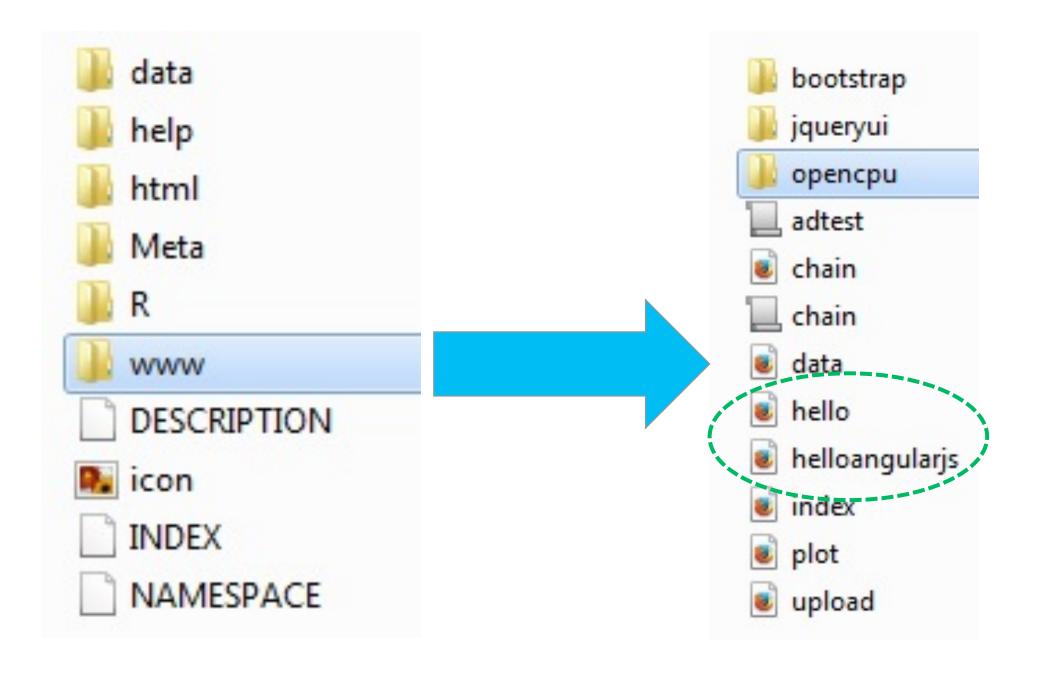
Try the application online at the OpenCPU apps public demo server: https://public.opencpu.org /apps.html

Use locally

To run the app in your local R session:

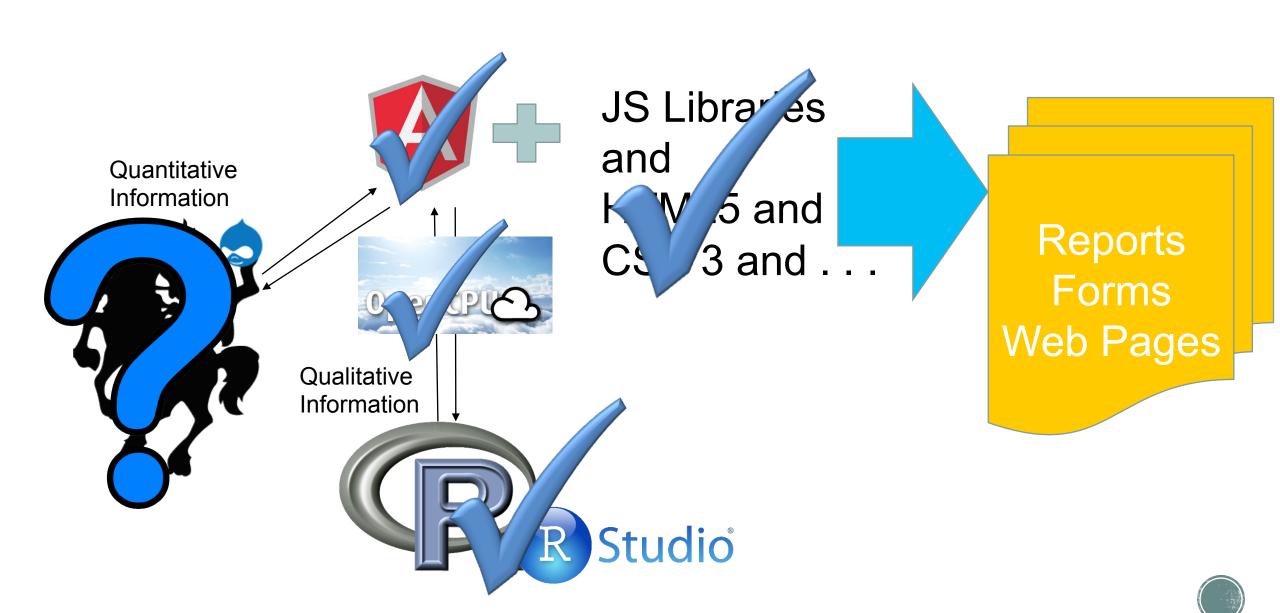
```
#install app
library(devtools)
install_github("appdemo", "opencpu")
#load in opencpu
library(opencpu)
opencpu$browse("/library/appdemo/www")
```



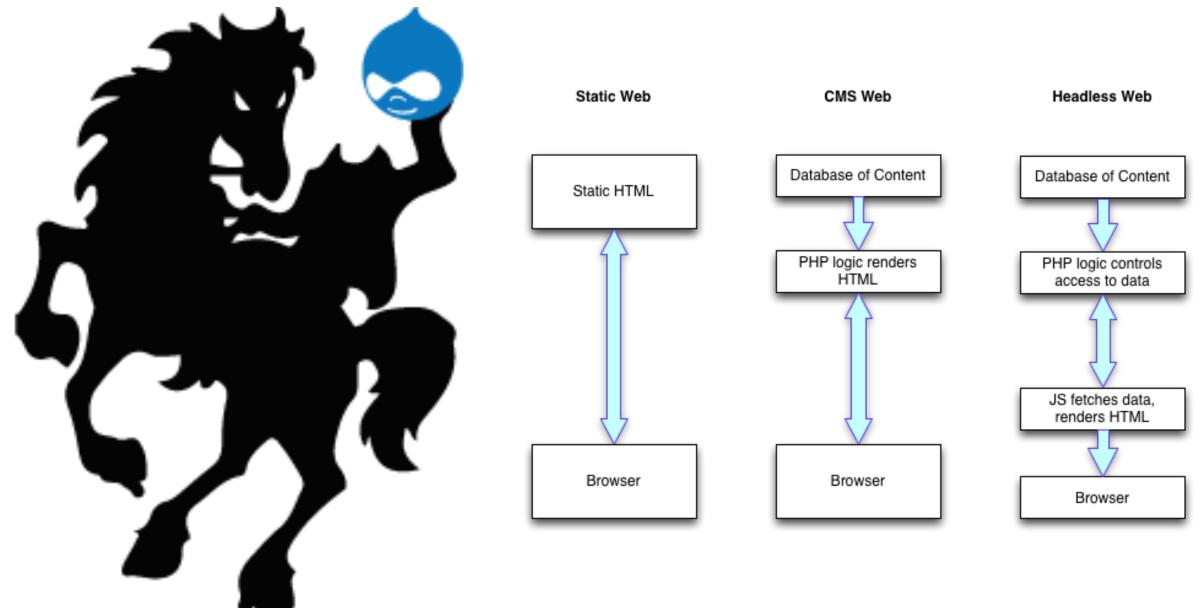




The Revised Concept







AngularJS



Version control

Automated Testing

Posted by wwhurley on October 22, 2012 at 9:54pm

What this module does

This module provides a bridge between Drupal and the AngularJS framework for creating rich, interactive web applications that rely on Drupal content. By default the module uses version 1.0.8 of AngularJS pulling the unminified code from the Google CDN. This may be



changed by going to the administrative page. If you want to download the files to host locally they can be found at http://code.angularjs.org/ and placed in sites/all/libraries /angular.

Depenencies

Libraries API

Installation

- Download and install the dependencies
- Enable angularjs module and angularjs_examples module
- Go to /angular/nodes to see example interacting with Drupal

Maintainers for AngularJS

wwhurley - 20 commits last: 2 months ago, first: 2 years ago

View all committers View commits

Issues for AngularJS

To avoid duplicates, please search before submitting a new issue.

Advanced search

All issues

19 open, 45 total

Bug report

9 open, 22 total

Subscribe via e-mail

Statistics



Angular Drupal



Version control

Automated Testing

Posted by tyler.frankenstein on July 14, 2015 at 1:18pm

This is the companion Drupal module for the Angular JS module, angular-drupal.



Supporting organizations:

Easy Street 3

Project Information

Maintenance status: Actively maintained

Development status: Under active development

Module categories: JavaScript Utilities , Mobile , Utility

Reported installs: 8 sites currently report using this module. View usage statistics.

Downloads: 49

Last modified: July 14, 2015

Downloads

Recommended releases

Version	Download	Date
7.x-1.0	tar.gz (8.01 кв) zip (8.56 кв)	2015-Jul-14

Maintainers for Angular Drupal

tyler.frankenstein - 3 commits last: 5 days ago, first: 5 days ago

View all committers View commits

Issues for Angular Drupal

To avoid duplicates, please search before submitting a new issue.

Advanced search

All issues

0 open, 0 total

Bug report

0 open, 0 total

Subscribe via e-mail

Statistics



angular-drupal

An Angular JS module for Drupal 7 Services.

Intro

This Angular module makes it easy to read/write entity data to/from Drupal, handles user authentication and registration, and makes it easy to retrieve JSON data from Views.

Here's a very *simple* Angular app that loads node # 123 from Drupal and then displays the node's title (via an alert):

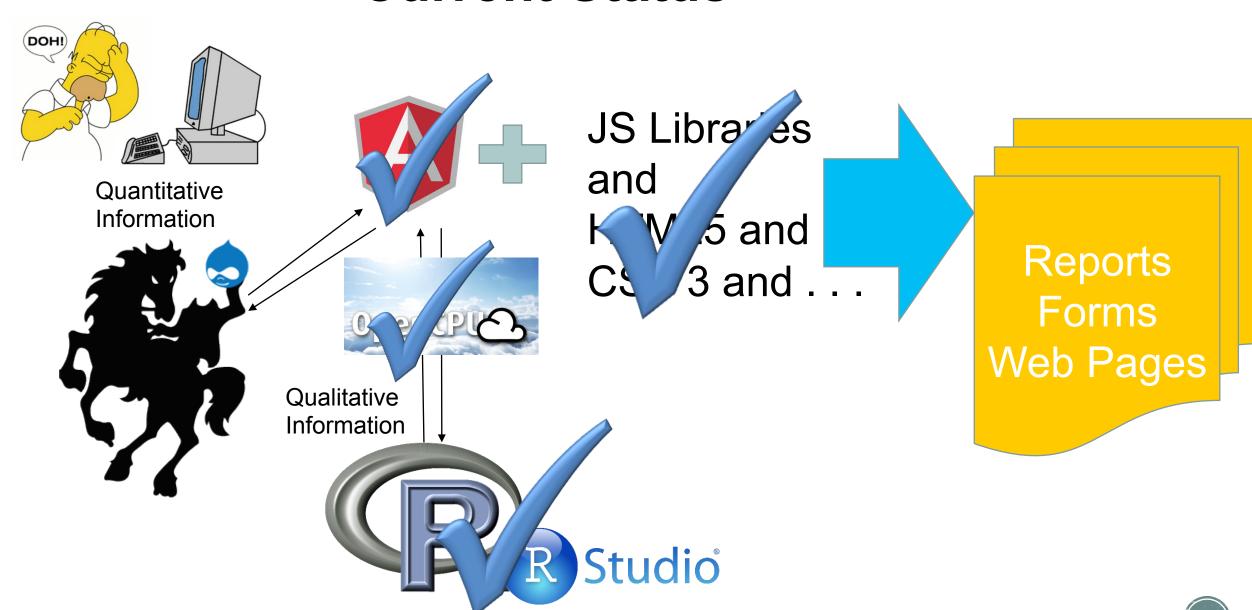
```
// My simple app.
angular.module('myApp', ['angular-drupal']).run(['drupal', function(drupal) {
    drupal.node_load(123).then(function(node) {
        alert(node.title);
    });
}]);

// The angular-drupal configuration settings for my simple app.
angular.module('angular-drupal').config(function($provide) {
    $provide.value('drupalSettings', {
        sitePath: 'http://my-drupal-site.com',
        endpoint: 'api'
    });
});
});
```

- Comment
- File
- Node
- System
- Taxonomy_Term
- Taxonomy_Vocabulary
- User



Current Status



Next Steps . . .

- ☐ Intensive training in AngularJS
- □ Complete the Ubuntu test server's environment so that I can integrate NodeJS into the architecture
- ☐ Replace Drupal 7 with Drupal 8 in the architecture
- □ Investigate DeployR as a potential substitute for OpenCPU (http://deployr.revolutionanalytics.com/



□ Determine if other applications can be integrated into the architecture (WordPress, Alfresco, Salesforce, and so on)