Drupal & AngularJS

DrupalCamp Spain 2014
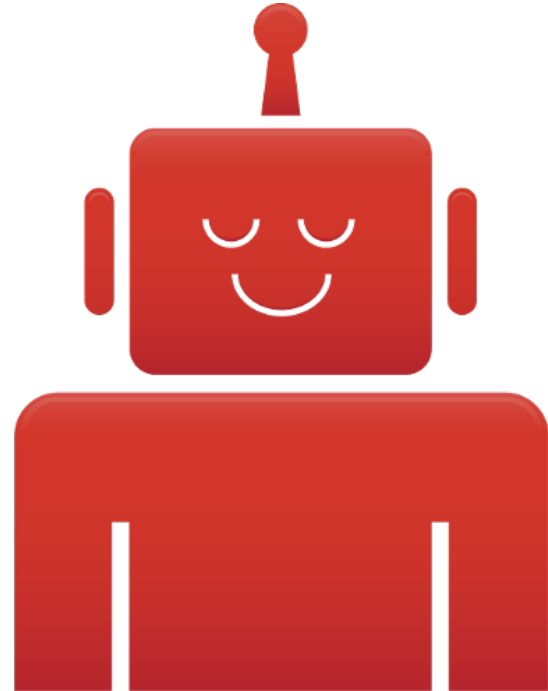
Juampy Novillo Requena
Mateu Aguilo Bosh

About us ([@e0ipso](#) & [@juampy72](#))

Drupal enthusiasts   Developers at Lullabot

Glossary (1)

Front end developer / Themer

Someone who works in the presentational aspects of a website.

Back end developer / Programmer
Someone who works in the architecture of a website.

Glossary (2)

Decouple

tr. separate, disengage, or dissociate (something) from something else.

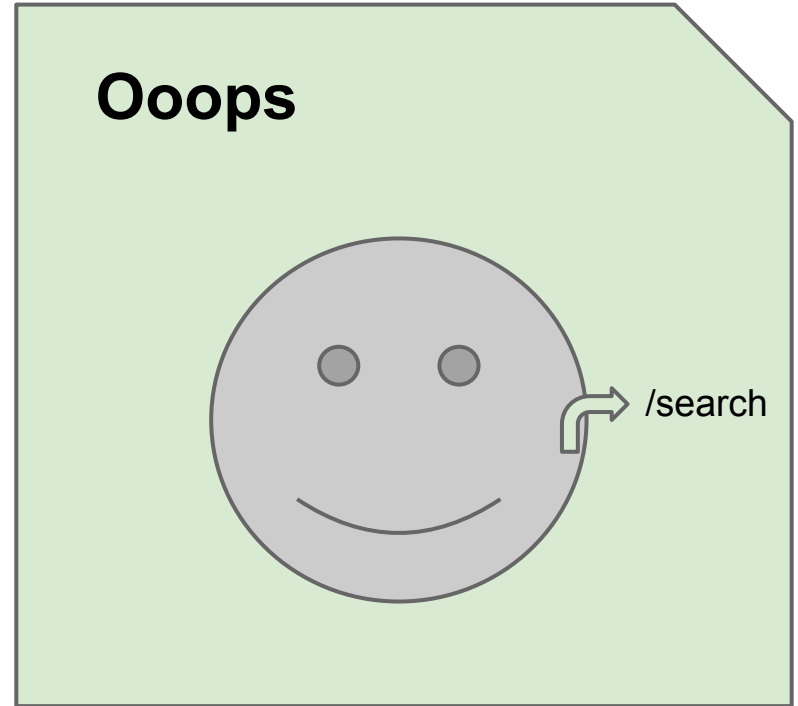For Drupal: move areas of business logic from Drupal to the client using JavaScript.

Backend: Drupal

```
<html>
   …
   <div id="the-js-page"></div>
   …
</html>
```

```
title: "Ooops",
link: "/search",
image: "img.jpg"
```

Raw data sent to the client.

Client: Browser

Ooops

/search

¿Why decoupling?

1. Theming in Drupal is tedious and tricky.

2. As an alternative to ESI in pages delivered by reverse proxies.

3. Easier core upgrades.

1. Theming in Drupal is tedious and tricky

Hi themer! Here are hundred of thousands of divs; and the CSS is scattered among these files. Remember that if you touch core I will rip your head off.

Good luck! :-D

Against ...

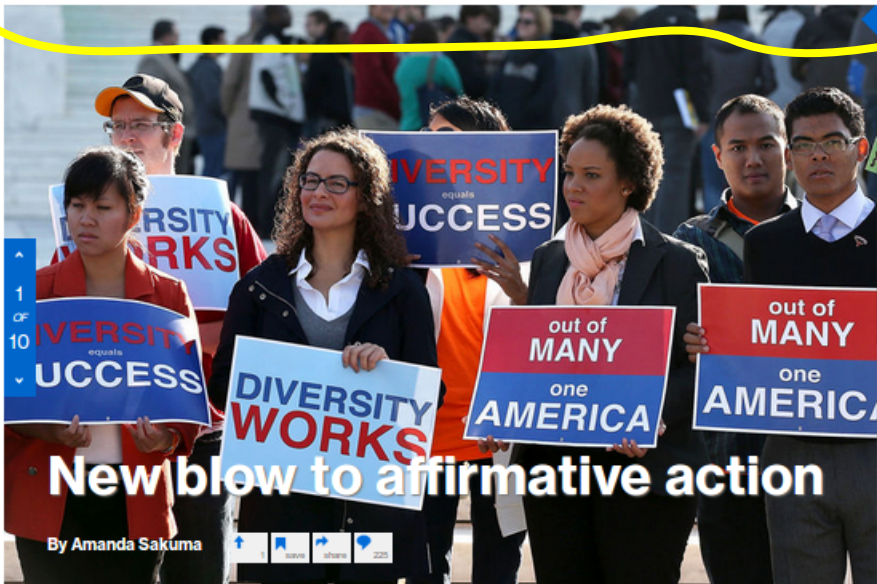*Hi themer, make a request to the service $http('/mydata.json') in JavaScript in order to obtain the data. You can write your own CSS and HTML from scratch.*

http://www.vote29.com/newmyblog/wp-content/uploads/2012/09/moka-happy-dog3.jpg

2. As an alternative to ESI in pages delivered by reverse proxies

Given a page, allow that certain areas are dynamic but keep the rest been delivered by a [reverse proxy](#) like Varnish.

AngularJS fetches the data and renders the header.

Drupal + Varnish take care of the rest of the page.

Same header embedded in a different site
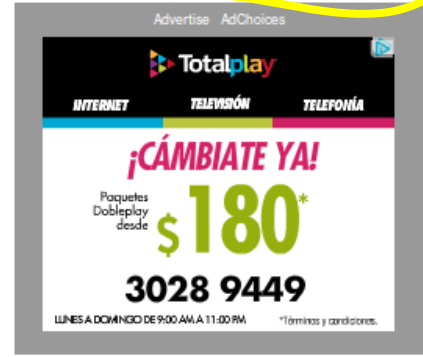
Assync calls to different servers:
 - Data server
 - Server with the AngularJS app

3. Easier core upgrades

@daniel_jacobson, ex CTO at National Public Radio (www.npr.org).

Built a backend system which offered an API to several client applications.

This backend system has been on for 12 years.

Other Drupal Sites

Flash Components

Android Applications

iPhone Applications

Other Systems or Frameworks

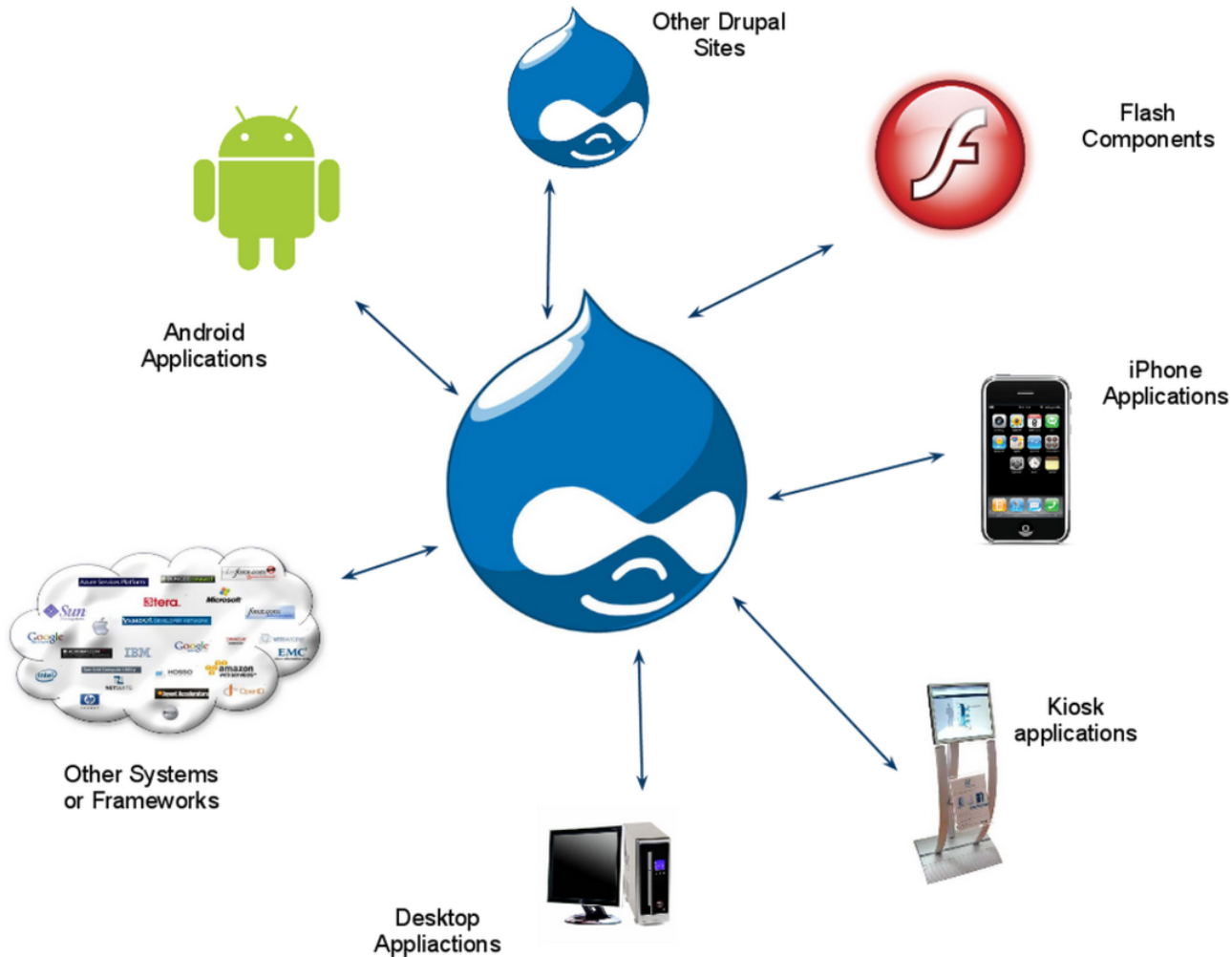Kiosk applications

Desktop Appliactions

As long as we respect the structure of the APIs being consumed by client apps, the backend can evolve.

http://insready.com/sites/default/files/why_need_services.png

AngularJS is an MVC JavaScript framework which elegantly separates controller, business and model logic in your application.

AngularJS basics: directive

A [Directive](#) is a marker on a DOM element that tell AngularJS's HTML compiler to attach a specified behavior to that DOM element.

LIVE DEMO

http://jsfiddle.net/e0ipso/9eXD9/

AngularJS basics (2): controller

A [Controller](#) is a JavaScript constructor function that is used to augment the Angular Scope.

LIVE DEMO

http://jsfiddle.net/e0ipso/t2N8b/2/

2-way data binding

The view can update the model and the model can update the view. Out of the box.

LIVE DEMO

http://jsfiddle.net/e0ipso/PF3cP/1/

¿What about JQuery & Backbone?

There is no MVC separation as in AngularJS in JQuery and Backbone.

They both lack 2-way data binding.

[Example in AngularJS / jQuery / Backbone](#).

Full example: contact form

Source article

Hugs. Questions?

http://about.me/juampy   http://humanbits.es

@juampy72   @e0ipso