Intro to Developing Websites with AngularJS and WordPress

GitHub: https://github.com/WPKitIO/WPKit
Slides: https://goo.gl/MgNg1O
Who are we?

Ben Newton
Director of Technology at Worldmedia Interactive
@BenENewton
BenENewton.com

Joseph Van
Web Developer at Worldmedia Interactive
@joedajigalo
josephvan.me
Agenda

What we do. And Why.
What is AngularJS?
Why AngularJS?
Why WordPress?
Quick How To
WordPress/AngularJS Demo
How We Use AngularJS and WordPress in Production
Questions?
What We Do. And Why.

We are using one WordPress back end as an API endpoint for multiple front end “clients”.

One WordPress installation can serve data for:
Multiple Websites,
Apps,
Landing Pages,
Ads
and more.
What is AngularJS?

From The AngularJS Documentation

AngularJS is a structural framework for dynamic web apps. It lets you use HTML as your template language and lets you extend HTML's syntax to express your application's components clearly and succinctly. Angular's data binding and dependency injection eliminate much of the code you would otherwise have to write.
Why AngularJS?

Reusable Services
Easy Injection of data from any back end endpoint

Simple HTML Templating
<div>Easy as {{this}}</div>

Speed
Serve static HTML Pages and still have dynamic content

Separate production teams.
Front End Devs/Back End Devs
Why WordPress?

- Easy to Modify
- Well supported
- Huge community
- Client friendly
Demo -

https://github.com/WPKitIO/WPKit/tree/Car-Example

*Requires Mamp and Gulp
AngularJS Simple Repeater

Factory
Controller
Template
angular.module('wpKit')
  .factory('carFactory', function ($resource, CONFIG) {
    return $resource('http://' + CONFIG.apiBaseUrl + '/cars/:car', {
      callback: 'JSON_CALLBACK', car: '@car',
      getData: {method: 'JSONP', params: { car: ''}}
    });
  });
angular.module('wpKit')
.controller('carCtrl', function ($scope, carFactory, $routeParams) {

  var carName = $routeParams.car;

  carFactory.getData(
    { car: carName },
    function(data) {
      $scope.pageInformation = data.page_information;
      $scope.car = data.car;
    });
});
AngularJS Repeater

```html
group ng-repeat="model in car.models">
  <img ng-src="{{model.image}}" />
  <span ng-bind-html="model.name"></span>
  <span>${{model.msrp}}</span>
</li>
</ul>
```
The Porsche Cayman is a rear mid-engined, rear wheel drive 2-seat sports car produced by Porsche AG of Germany.

```json
{
  "car": {
    "manufacturer": {
      "name": "Porsche",
      "slug": "porsche"
    },
    "name": "Cayman",
    "description": "The Porsche Cayman is a rear mid-engined, rear wheel drive 2-seat sports car produced by Porsche AG of Germany."
  },
  "models": [
    {
      "name": "Cayman GT4",
      "msrp": "84,600.00",
    },
    {
      "name": "Cayman",
      "msrp": "52,600.00",
      "image": "http://localhost/wpkit/wp-content/uploads/2015/05/cayman.png"
    },
    {
      "name": "Cayman S",
      "msrp": "64,100.00",
      "image": "http://localhost/wpkit/wp-content/uploads/2015/05/cayman-s.png"
    },
    {
      "name": "Cayman GTS",
      "msrp": "75,200.00",
      "image": "http://localhost/wpkit/wp-content/uploads/2015/05/cayman-gts.png"
    }
  ]
}
```
Pros

Multiple Platforms using same data
Separate dev teams
Cut dev Time
No need for WordPress staging server
Build new sites without touching back end
Super Fast Deployment
Easily Scales
Inexpensive Hosting
How We Use AngularJS and WordPress in Production

Norwegian Escape Site - escape.ncl.com
How We Use AngularJS and WordPress in Production

Sites for 8 Countries
Special Use Site that may serve up to 4000+ micro sites.
Future sites
Future Apps

All from the same WordPress Install
Angular Resources

AngularJS Developer Guide - https://docs.angularjs.org/guide/introduction
AngularJS Docs - Getting Started - https://docs.angularjs.org/misc/started
Egghead.io - https://egghead.io/technologies/angularjs
Questions?

GitHub Repo:
https://github.com/WPKitIO/WPKit/tree/Car-Example

Twitter
@BenENewton  @joedajigalo
#wcmia