

PHPSevilla

API RESTful & Angular JS 2

Miguel Ángel Martín

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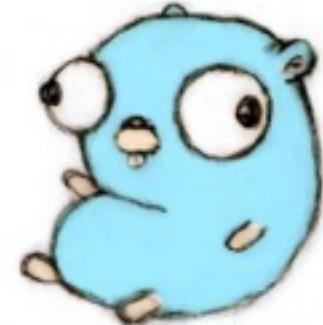
EMERGYA



THE COMMUNITY

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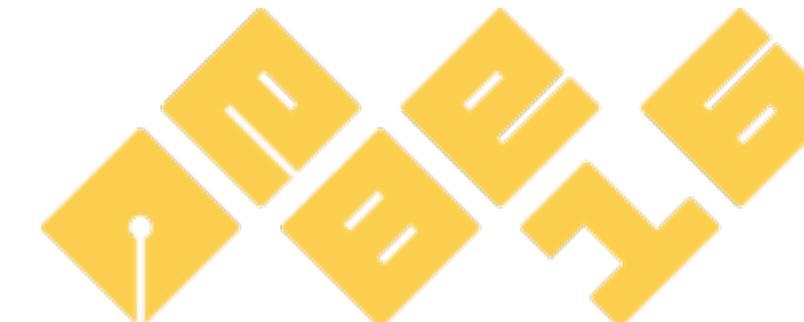
fe(x)t | what's coming
next festival



NS



Drupal



↑SevillaUP



SVQXDG

Sevilla Xamarin Developer Group



Sevilla



THE PROJECT

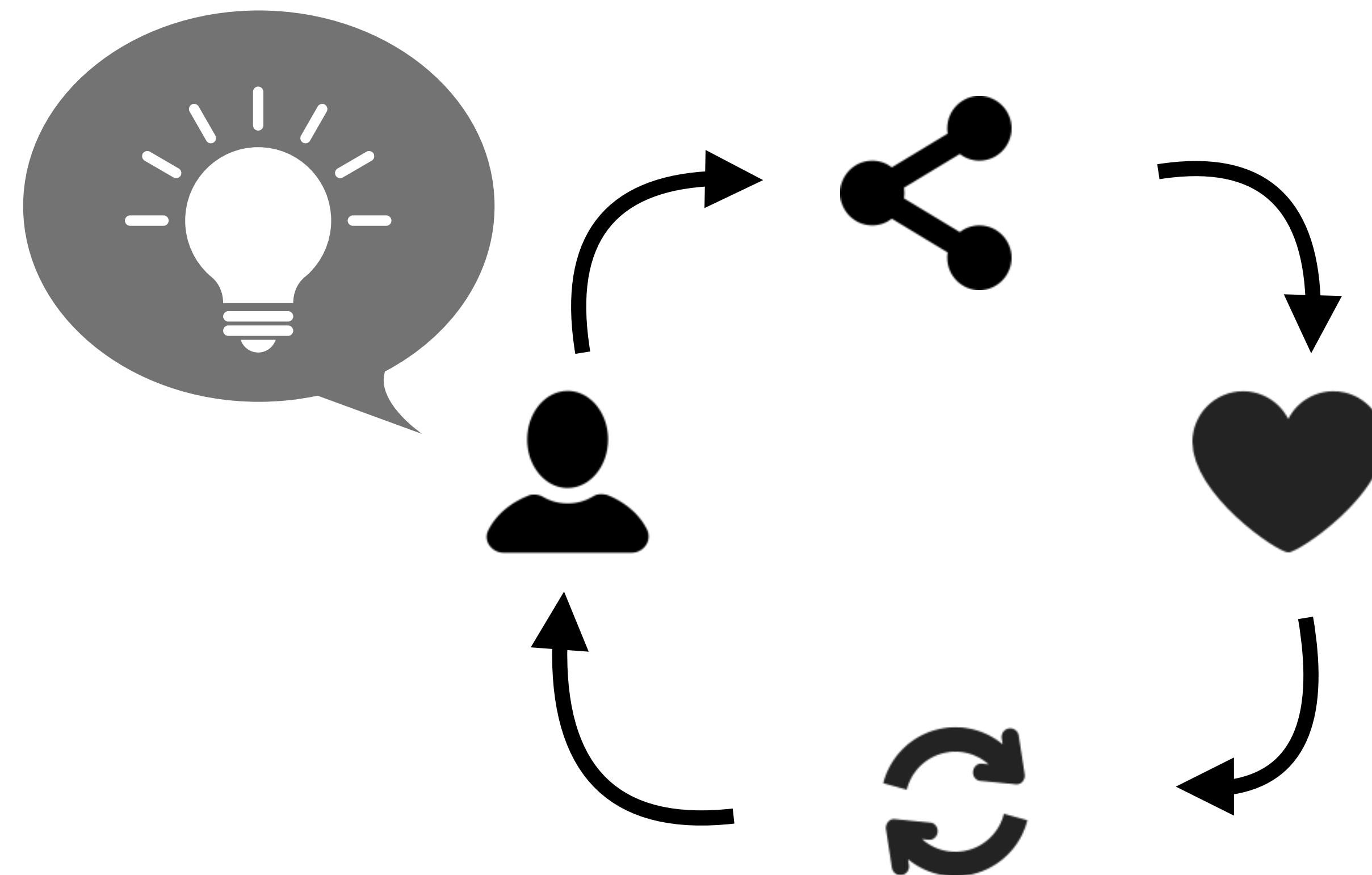
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THINKING**UP**

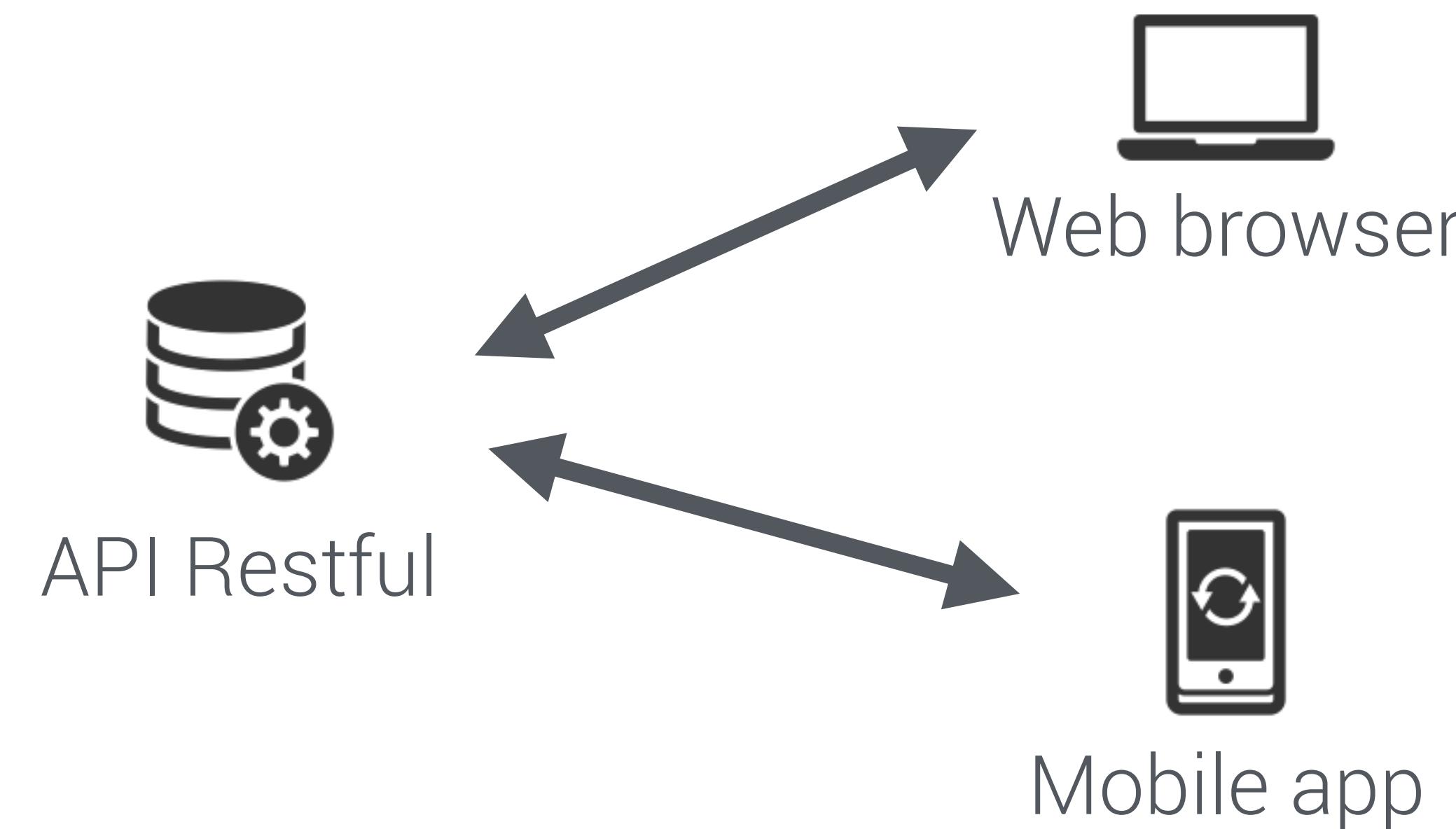


THINKINGUP

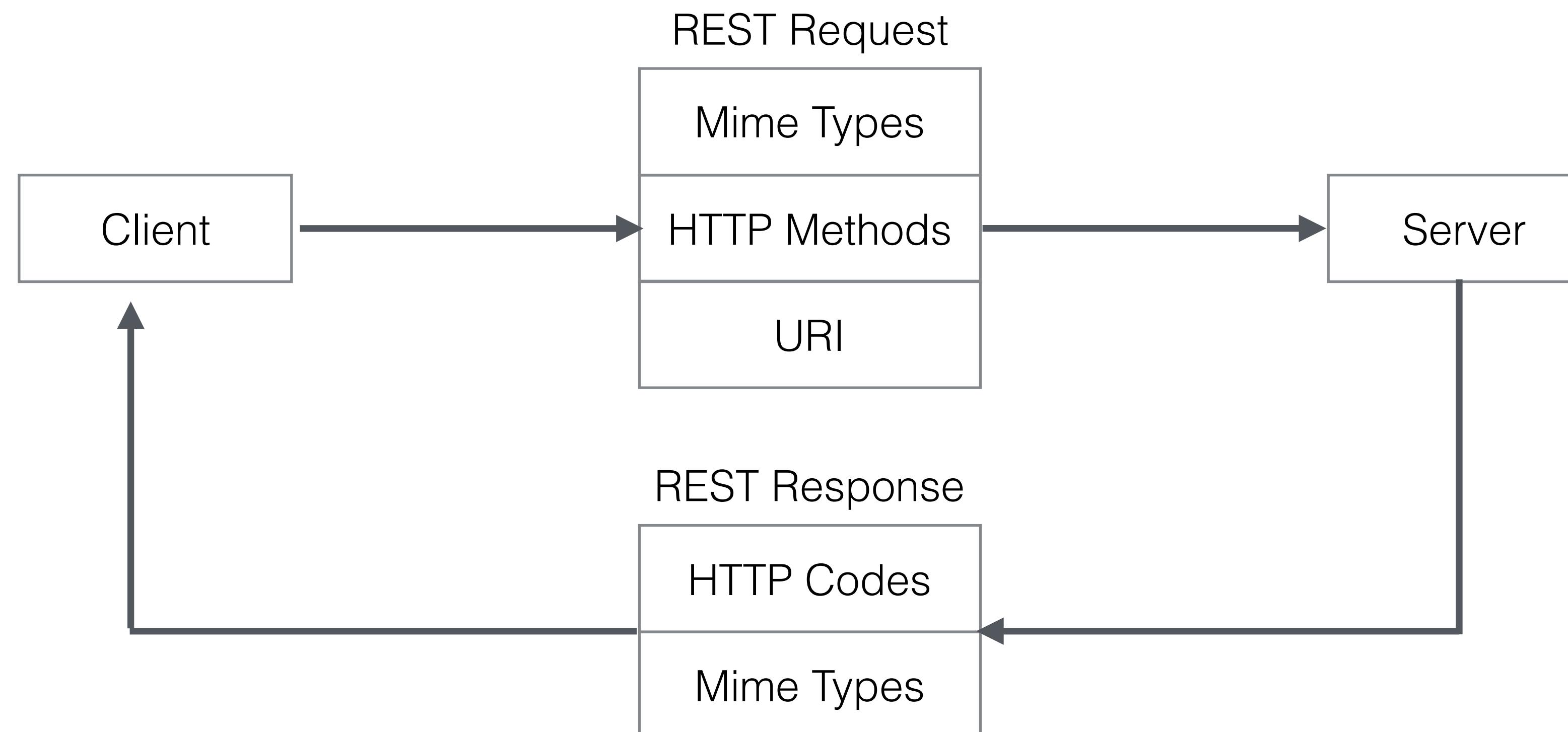
THINKINGUP



API RESTful



API RESTful



API RESTful

Fundamentos básicos API RESTful

- 1.- Todo es un recurso. Representada por un formato.
- 2.- Con identificador único. Accesible a través de URLs.
- 3.- Usa métodos HTTP estándar
- 4.- Diferentes representaciones
- 5.- Comunicaciones sin estado

API RESTful

Uso correcto de las URLs

{protocolo}://{dominio o hostname}[:puerto (opcional)]/{ruta del recurso}?{consulta de filtrado}

API RESTful

Uso correcto de las URLs

Incorrecto

http://api.thinkingup.com/showideas
http://api.thinkingup.com/idea
http://api.thinkingup.com/idea/edit
http://api.thinkingup.com/ideas/1/show
http://api.thinkingup.com/ideas/1/detail

Correcto

GET http://api.thinkingup.com/ideas
GET http://api.thinkingup.com/ideas/1
POST http://api.thinkingup.com/ideas
PUT http://api.thinkingup.com/ideas/1
DELETE http://api.thinkingup.com/ideas/1

API RESTful

HTTP Methods

- GET
- POST
- PUT
- DELETE
- HEAD
- OPTIONS
- TRACE
- CONNECT

API RESTful

HTTP Status code

2XX - Success

200 - OK
201 - Created
204 - No content

3XX - Redirection

300 - Multiple choices
301 - Moved permanently
304 - Not modified

4XX - Client Error

5XX - Server Error

<https://tools.ietf.org/html/rfc2616>

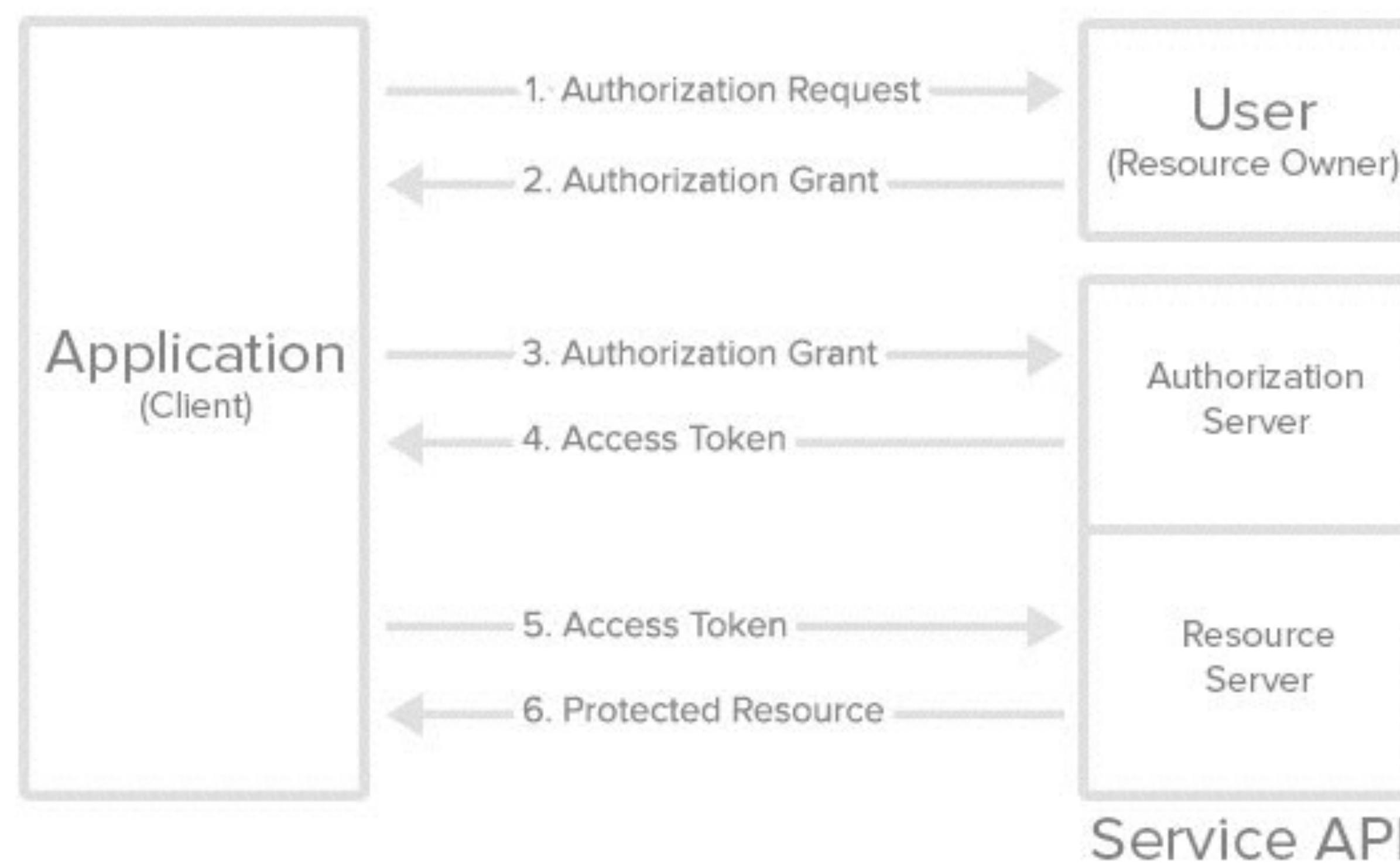
API RESTful

Hypermedia

```
{  
  id: 211,  
  first_name: 'John',  
  last_name: 'Lock',  
  _links: [  
    { rel: 'self', href: 'http://example.com/people/211' }  
  ]  
}
```

OAuth 2.0

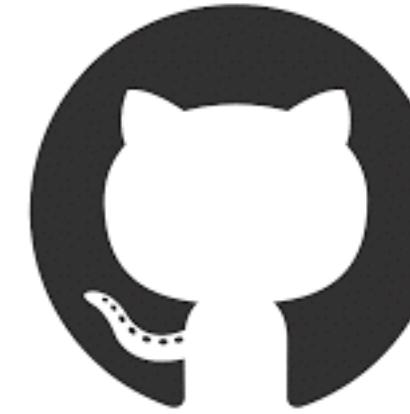
Abstract Protocol Flow



API RESTful References

<https://goo.gl/D9Emmf>





Show me the code

Symfony 3.1

Fos User Bundle

Fos Rest Bundle

Fos Oauth Bundle

JMS Serializer Bundle

<https://github.com/miguelbemartin/thinkingup-backend>

Alejandro Pérez Martín

<https://github.com/AlejandroPerezMartin>

Sobre mí

Desarrollador Front-End Junior

Experiencia: WordPress, PHP, jQuery, Angular 1, Angular 2

Un poco de historia

Creado en 2010 por Google

Framework MVC para crear SPAs

Antes de Angular: Backbone y Ember

Angular 1 vs Angular 2

Adiós \$scope

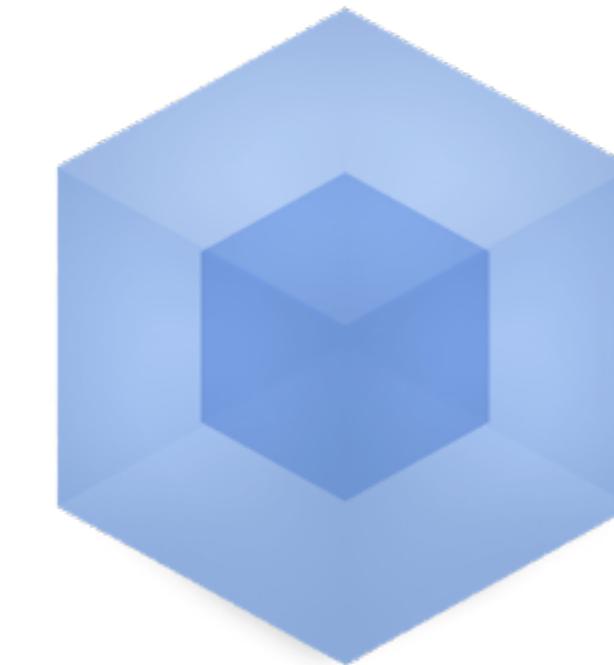
Componentes

Soporte móvil





ANGULAR2



TypeScript 

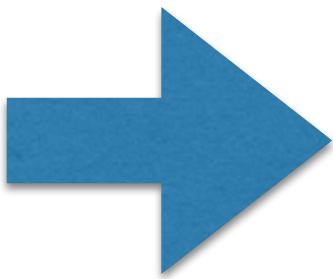
Superset de JavaScript (transpilado)

Tipos, clases, interfaces, decoradores...

Orientado a objetos

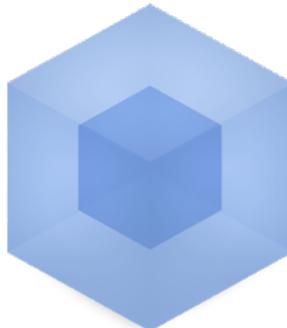
TypeScript

```
function add(a, b) {  
    return a + b;  
}  
  
add(1, 3);    // 4  
add(1, '3'); // '13'
```



```
function add(a: number, b: number) {  
    return a + b;  
}  
  
add(1, 3);    // 4  
// compiler error before JS is even produced  
add(1, '3'); // '13'
```

Webpack



Sistema de empaquetado de módulos (bundler)

Minificación, compilación de SASS a CSS...

"Evolución" de Grunt o Gulp

RxJS



Programación reactiva

Flujo de datos asíncrono

learnrxjs.io

www.youtube.com/watch?v=uQ1zhJHclvs

THE FRONTEND

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ANGULAR**2**

angular.io

Módulo raíz

```
@NgModule({  
    imports:      [ BrowserModule, MyFeatureModule, ThirdPartyModule ],  
    declarations: [ RootComponent, OtherComponent, MyPipe, MyDirective ],  
    providers:    [ MyService ],  
    bootstrap:   [ RootComponent ]  
})  
export class AppModule {}
```

Root module

imports: otros módulos requeridos por el módulo

declarations: componentes/directivas definidos

providers: servicios definidos

exports: componentes/directivas... disponibles para otros módulos

bootstrap: componente raíz de la aplicación

Módulo

```
@NgModule({
  imports:      [ CommonModule, OtherFeatureModule ],
  declarations: [ MyComponent, MyPipe, MyDirective ],
  providers:    [ MyService ],
  exports:      [ MyComponent, MyDirective ]
})
export class MyFeatureModule {}
```

Feature module

Componente

Definición

```
import { Component } from '@angular/core';

@Component({
  selector: 'rio-widget',
  styles: [ 'p { color: red }' ],
  template: '<p>I\'m a widget!</p>'
})
export class WidgetComponent { ... }
```

```
@Component({
  selector: 'rio-app',
  styleUrls: [ 'app.component.css' ],
  templateUrl: 'app.component.html'
})
```

Uso

```
<rio-widget></rio-widget>
```

Pasando datos a un componente

@Input

```
@Component({
  selector: 'rio-greeter',
  template: '<p>Hello, {{ firstName }}</p>'
})
export class GreeterComponent {
  @Input('name') firstName: string;
}
```

Paso de datos

```
<!-- To bind to a variable in the parent scope -->
<rio-greeter [name]="name"></rio-greeter>
<!-- To bind to a raw string -->
<rio-greeter name="Mike"></rio-greeter>
```

@Output

```
@Component({
  selector: 'rio-counter',
  template: `
    <div>
      <p>Child Count: {{ count }}</p>
      <button (click)="increment()">Increment</button>
    </div>`
})
export class CounterComponent {
  @Input() count = 0;
  @Output() countChange = new EventEmitter<number>();

  increment(): void {
    this.count++;
    this.countChange.emit(this.count);
  }
}
```

Eventos

Recepción

```
import {Component} from '@angular/core';

@Component({
  selector: 'rio-app',
  template: `
    <p>Parent Count: {{ parentCount }}</p>
    <rio-counter (countChange)="onCountChange($event)">
  `
})
export class AppComponent {
  parentCount: number;

  onCountChange(count: number): void {
    this.parentCount = count;
  }
}
```

Two-way data-binding

Cambios en el modelo se reflejan inmediatamente en la vista

```
@Component({ ... })
export class CounterComponent {
  @Input() count: number;
  @Output() countChange = new EventEmitter<number>();

  increment(): void {
    this.count++;
    this.countChange.emit(this.count);
  }
}
```

```
@Component({
  template:'<counter [(count)]="myNumber"></counter>'
})
class AppComponent {
  myNumber = 0;
}
```

Banana in a box

Directivas

Cambian el comportamiento de un componente

Directivas estructurales
Modifican el template

**ngIf, *ngFor, [ngSwitch], [hidden]*

```
<p *ngIf="isVisible">I'm sometimes visible</p>
```

```
<ol>
  <li *ngFor="let item of list">
    <span>{{ item.id }}</span>
    <span>{{ item.value }}</span>
  </li>
</ol>
```

Directivas de atributos
No modifican el template

[ngClass] y [ngStyle]

```
<p style="padding: 1rem"
  [ngStyle]="{
    color: 'red',
    'font-weight': 'bold',
    borderBottom: borderStyle
  }">
  <ng-content></ng-content>
</p>
```

Servicios

Funcionalidad compartida en toda la aplicación

Singletons

Inyección de dependencias

Servicios

Definición

```
import { Injectable } from '@angular/core';
@Injectable()
export class AuthService {
  login(): void {
    // Request and return data from the server
  }
}
```

Inyección (DI)

```
export class LoginComponent {
  constructor(private authService: AuthService) {}
}
```

Enrutamiento

```
export const routes: Routes = [
  { path: 'product-details/:id', component: ProductDetails,
    children: [
      { path: '', redirectTo: 'overview', pathMatch: 'full' },
      { path: 'overview', component: Overview },
      { path: 'specs', component: Specs }
    ]
  }
];
```

Navegación desde la vista

```
<a [routerLink]="/component-one">Component One</a>
```

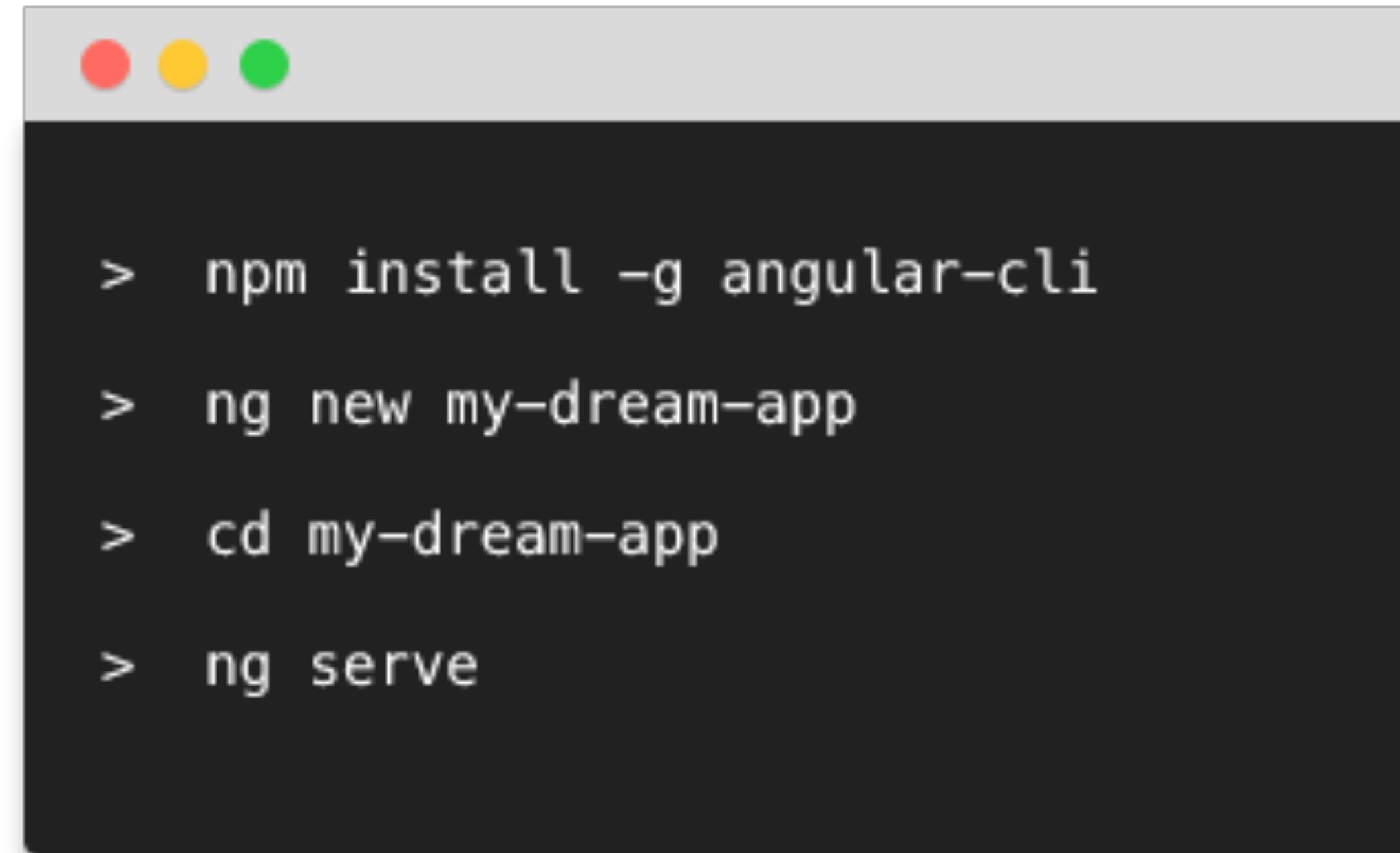
Navegación desde un componente

```
this.router.navigate(['/component-one']);
```

Mostrar componente enrulado

```
<router-outlet></router-outlet>
```

ANGULAR CLI

A screenshot of a terminal window with a dark background and light gray text. The window has three colored OS X-style buttons at the top. The terminal displays four command-line entries, each starting with a blue right-pointing arrow: "npm install -g angular-cli", "ng new my-dream-app", "cd my-dream-app", and "ng serve".

```
> npm install -g angular-cli
> ng new my-dream-app
> cd my-dream-app
> ng serve
```

cli.angular.io

ANGULAR**CLI**

Webpack preconfigurado

Compilación en función del entorno

Tests integrados

Comandos

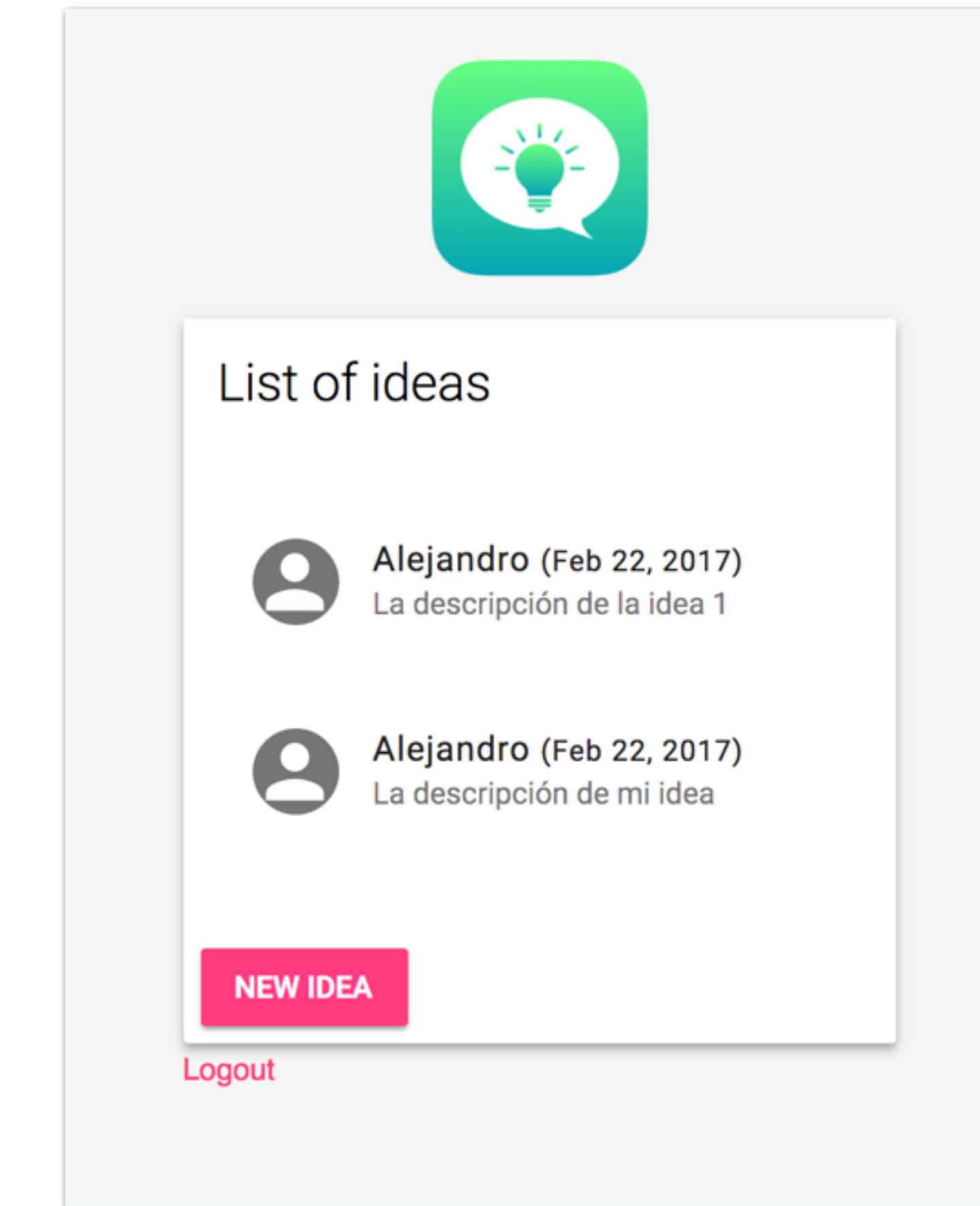
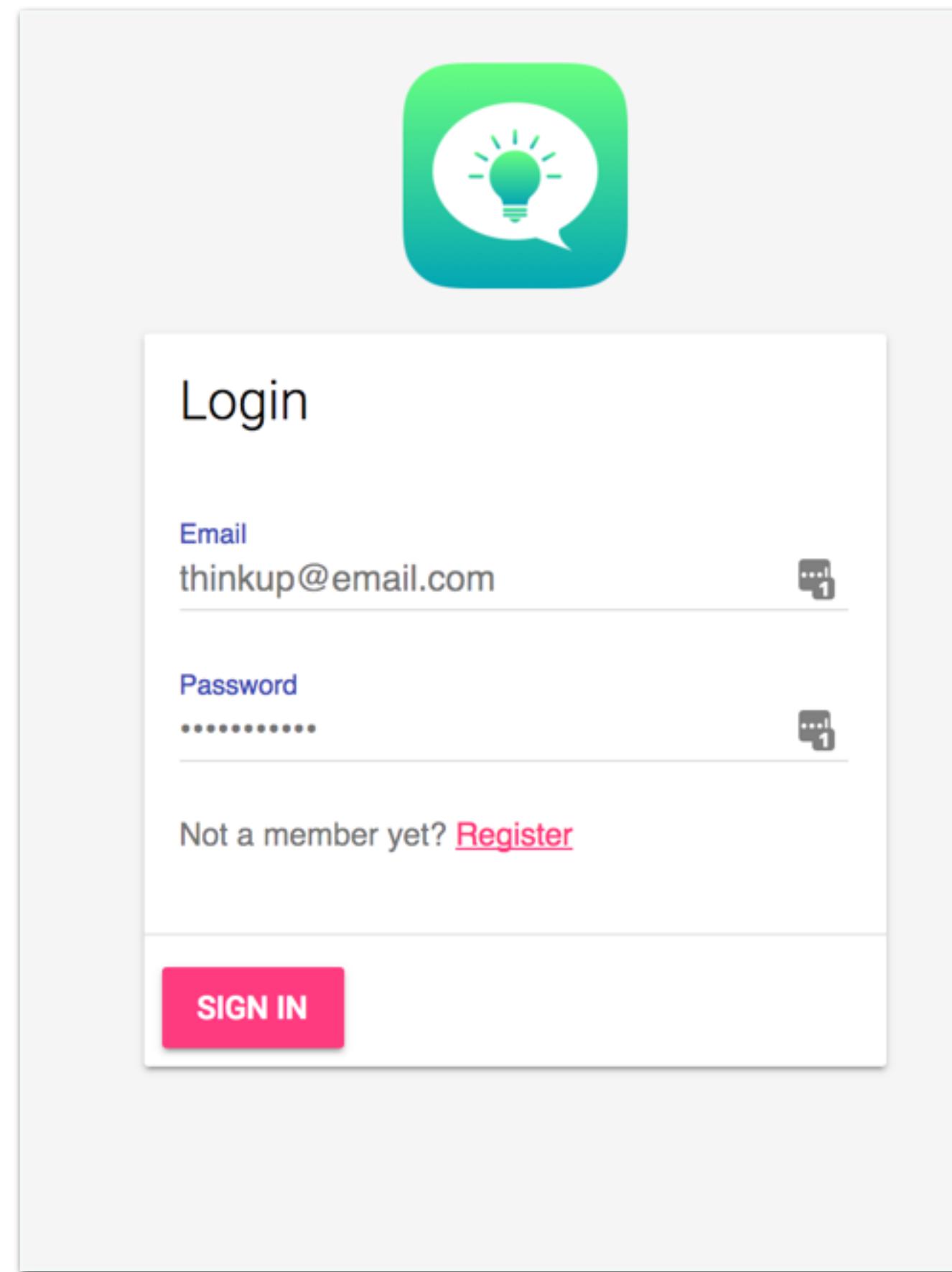
> **ng new miProyecto --style=scss|sass** //crear proyecto

> **ng serve** //servir para desarrollo

> **ng generate routeldirectivelcomponentl... ruta**

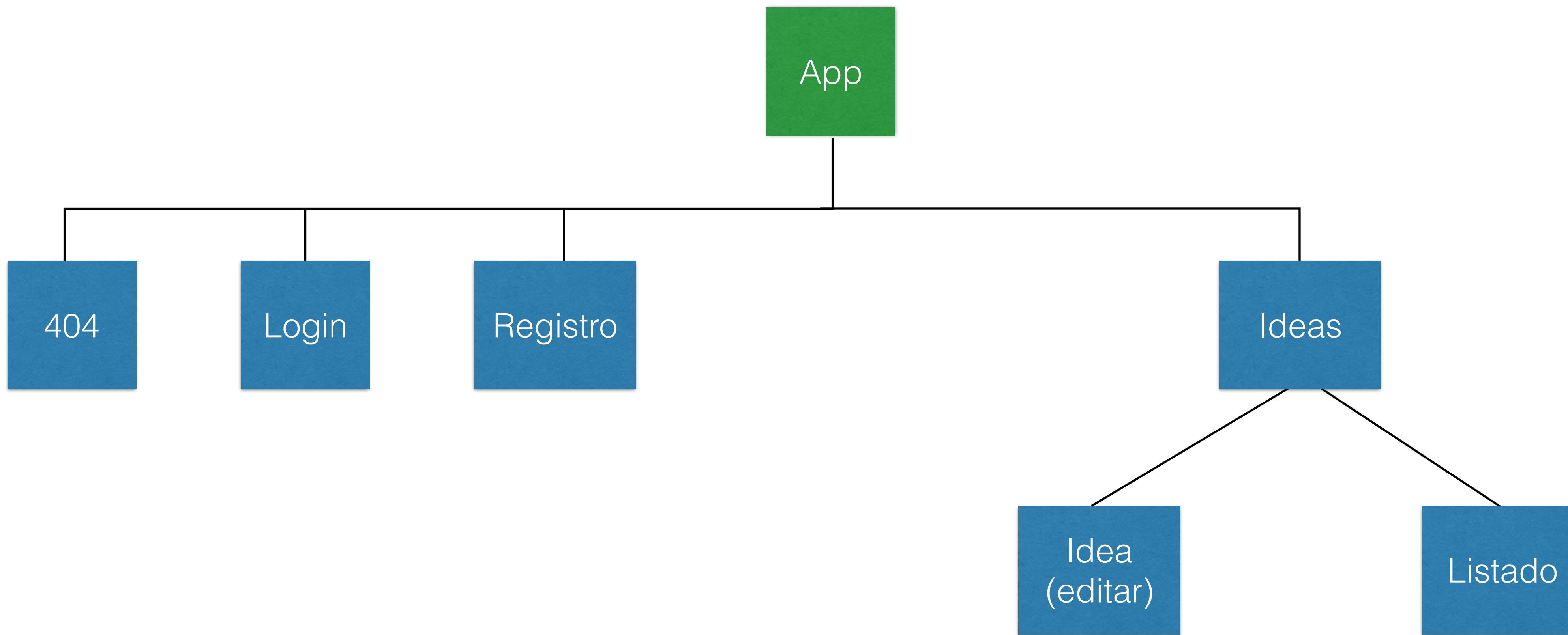
> **ng build --env=dev|prod|... --prod** //despliegue

LA APLICACIÓN



<https://github.com/AlejandroPerezMartin/angular2-symfony>

ESTRUCTURA



CASO DE ÉXITO



<http://edupills.educalab.es/>

Editores



Recursos interesantes

Documentación oficial

Libro de Angular 2 por Rangle.io

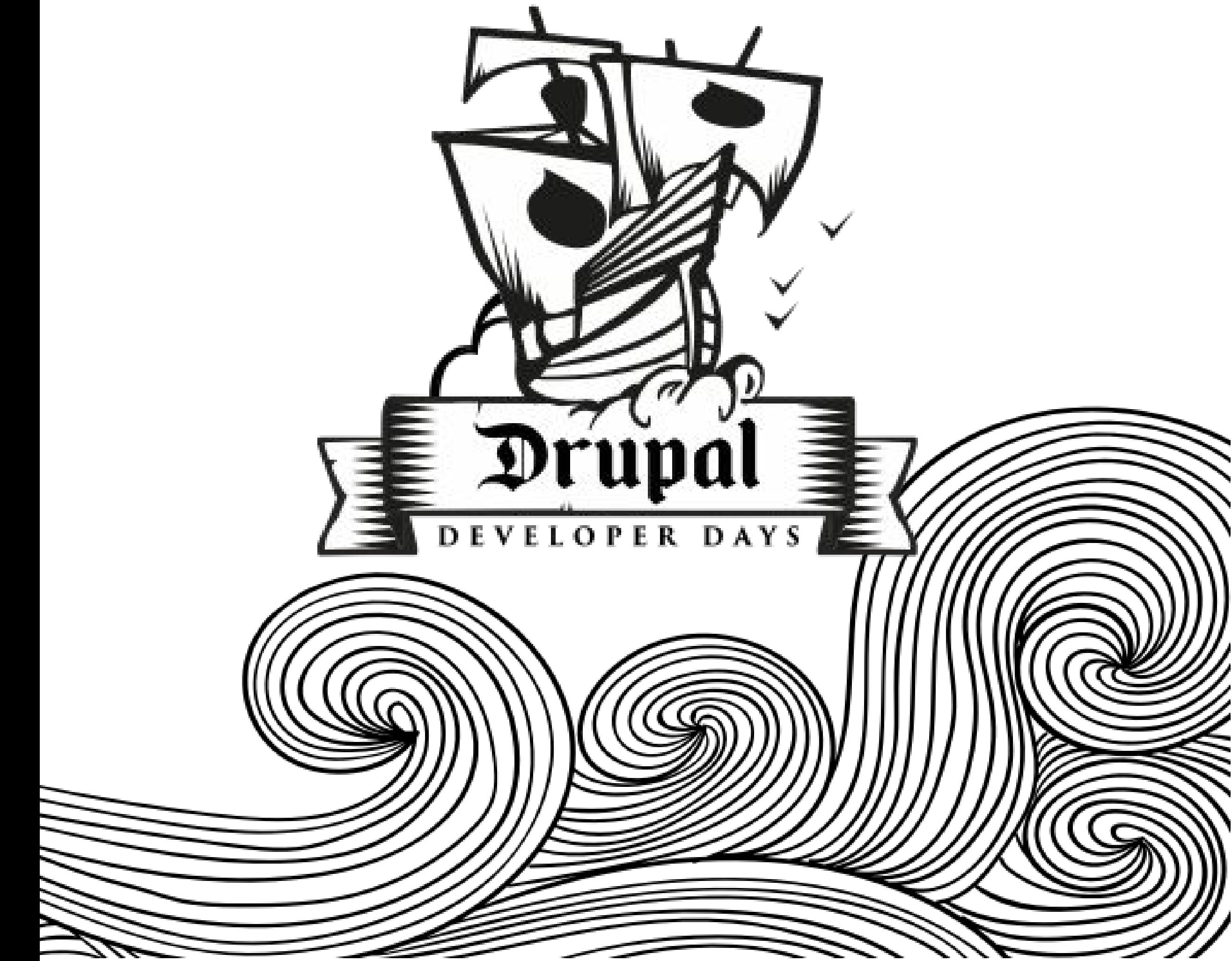
Cursos de Angular 2 y JavaScript

Curso de introducción a Angular 2

DRUPAL DEVELOPER DAYS
SEVILLE
MARCH 21-25 2017

Isla Mágica ✈ SEVILLE, SPAIN

500 anniversary of first
circumnavigation of the globe



¿Qué hemos venido a contar?

- Presentación de los Drupal Developer Days Sevilla 2017
- Nuestra experiencia organizando el evento
- Concepto y estudio previo
- Ejecución del plan
- Conclusiones

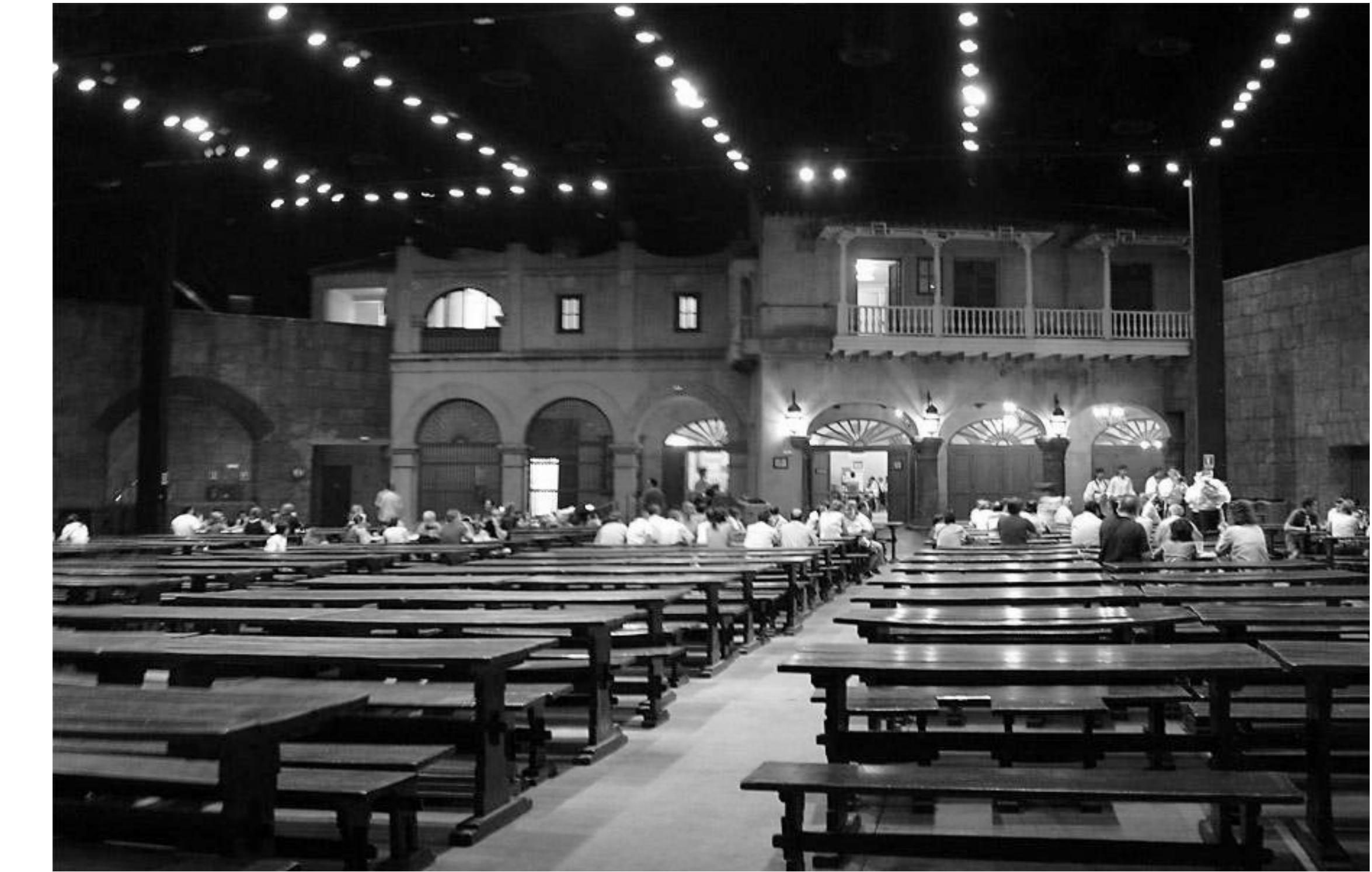
¿ Los Drupal Developer Days ?

- Segundo mayor evento de Drupal en Europa.
- Enfocado a sprints, sesiones y workshops.
- 4-5 días de duración.
- Asistencia media ~300 personas.

¿ Los Drupal Developer Days ?



Los Drupal Developer Days Sevilla 2017 : Venue



Los Drupal Developer Days Sevilla 2017 : Sesiones & Workshops

Submitted sessions

EXPERIENCE LEVEL	TARGET	TYPE	
- Any -	- Any -	- Any -	FILTER

DON'T JUST UPGRADE YOUR MODULE TO DRUPAL 8, MODERNIZE IT

hussainweb | Session Advanced about Development

MIGRATE TO DRUPAL

hussainweb | Session Intermediate about Development

HTTPS FOR THE MASSES

hussainweb | Session Beginner about Site Building

CHALLENGES OF USING A SINGLE THEME FOR A COMPLEX MULTI-SITE DRUPAL 8 INSTALLATION

Nesta Guerrero, Enno | Session Advanced about Frontend

A CAUTIONARY TALE FOR DEFENSIVE PROGRAMMERS

Bart Feenstra | Session Intermediate about Development

DEVEL - D8 RELEASE PARTY

Luca Lusso | Session Intermediate about Development

Los Drupal Developer Days Sevilla 2017 : Sprints

IMPORTANT:

- Please provide your full name and drupal.org name (n.b. only sprint leader is in bold), and respond YES, NO or MAYBE, which will be automated.
- See the "Notes" column to the right to add notes to your response as applicable.
- Mark if you are available remotely in cases (not locally); knowing who is local vs. remote helps with budget/space planning.

Location / times / Other info			SESSIONS AND SPRINTS												EXTRA sprint day - No venue for this yet but if there is interest we may look for something	
CODE SPRINT ATTENDEES			Session day 1		Session day 2		Session day 3		Session day 4		Session day 5					
Full name	Drupal.org name	Twitter username	21 March (Tue) AM	21 March (Tue) PM	22 March (Wed) AM	22 March (Wed) PM	23 March (Thu) AM	23 March (Thu) PM	24 March (Fri) AM	24 March (Fri) PM	25 March (Sat) AM	25 March (Sat) PM	26 March (Sun) AM	26 March (Sun) PM		
Whatever! Sign me up! I'll do anything.			▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	
	jbellido	jose_lakatos	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	
	alexpott	alexpott	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Maybe	
Rachel Lawson	rachel_norfolk	rachel_norfolk	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
José Antonio Rodríguez Carvajal	joe_carvajal	raistlinjoe	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	
David Rodríguez	davidjguru	davidjguru	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Philippe Guillard	pguillard	philguillard	Maybe	Maybe	Yes	No	No	No								
Gabriel Pollner	gpollner	GaboPollner	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	
Marc van Gend	marcvangend	marcvangend	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	
Edouard Cunibil	DuaelFr	DuaelFr	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Maybe	No	No	
Fabian Bircher	bircher	fabianbircher	▼	▼	Yes											
Sergii Bondarenko	BR0kEN	bro_0keN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	
Filipe Pereira	fmfpereira	fmfpereira	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Maybe	Maybe	No	
Jose Carlos Lucio	JoseCarlosss	jclbustamante	Maybe (remote)													
Nacho Salvador	nachosalvador	nacho_salvador	No (remote)	No	Maybe	Yes	No	No	No							
API-first: core REST + JSON API + GraphQL			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Frédéric G. Marand	fgm	osinet	Maybe	Maybe	Yes											
Wim Leers	Wim Leers	wimleers	Maybe	Maybe	Yes	Yes	Yes	Yes	Yes	Yes	Maybe	Maybe	Maybe	Maybe	Maybe	
Rogier Bom	rogierbom		Maybe	Maybe	Yes	No	No	No	No							
UX sprint Make Drupal UX great			▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	
Daniël Smidt (dmsmidt)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
ifrik	ifrik		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	

Los Drupal Developer Days Sevilla 2017 : Keynotes

Keynotes

ALL YOUR DATA ARE BELONG TO GEO



María Arias de Reyna

SOFTWARE DEVELOPER AND METADATA SHEPHERD



María works at a maps forge called GeoCat as a metadata shepherd, where she tidies up and classifies data.

Geographical data is not like plain data. You need to understand how to locate it on a four dimension universe before you can use it properly. Are we prepared to handle geodata right? Do we know how to use it? We cannot decide what kind of geodata comes into our hands. All we have to decide is what to do with the data that is given to us.

INVISIBLE REVOLUTION



Juliet Moreiro Bockhop

SUPPORT ENGINEER



@julietsvq. Support Engineer at Microsoft working on Dynamics 365 for Sales development & integrations.

Ever heard of the invisible revolution? It's the concept of technology being anywhere and anytime, in our environment and not always tied to a screen. In this talk we will go through the different parts of an IoT project to show how we can all start taking part in the invisible revolution. Technologies and topics we will be covering: Intel Edison and Raspberry Pi, bluetooth devices, Node.js, Twitter and Cognitive Services APIs, Azure.

Los Drupal Developer Days Sevilla 2017 :

Attendees



STEVE PURKISS
stevepurkiss



TAMÁS DEMETER-
HALUDKA
tamasd



HANNES TACK



IGNACIO
GONZÁLEZ
BULLÓN
natete



ALEJANDRO
GÓMEZ MORÓN
agomezmoron



ÓSCAR CASTAÑO
CALLE
ocastano



JAMES
ABRAHAMS



TASSILO GRÖPER
tassilogroeper



JULIEN DUBOIS
Artusamak



EDOUARD
CUNIBIL
DuaelFr



PIETER FRENSEN
pfrenssen



FEDIR RYKHTIK
feo



DIETMAR GIGLER
dietmarg



DIEGO MARRUFO
RODRÍGUEZ
dimaro



RAMON VILAR
rvilar



¿ Los Drupal Developer Days ?

- Ofertas de trabajo.
- Planes alternativos para toda la familia.
- Sesiones de mentorización.
- ...



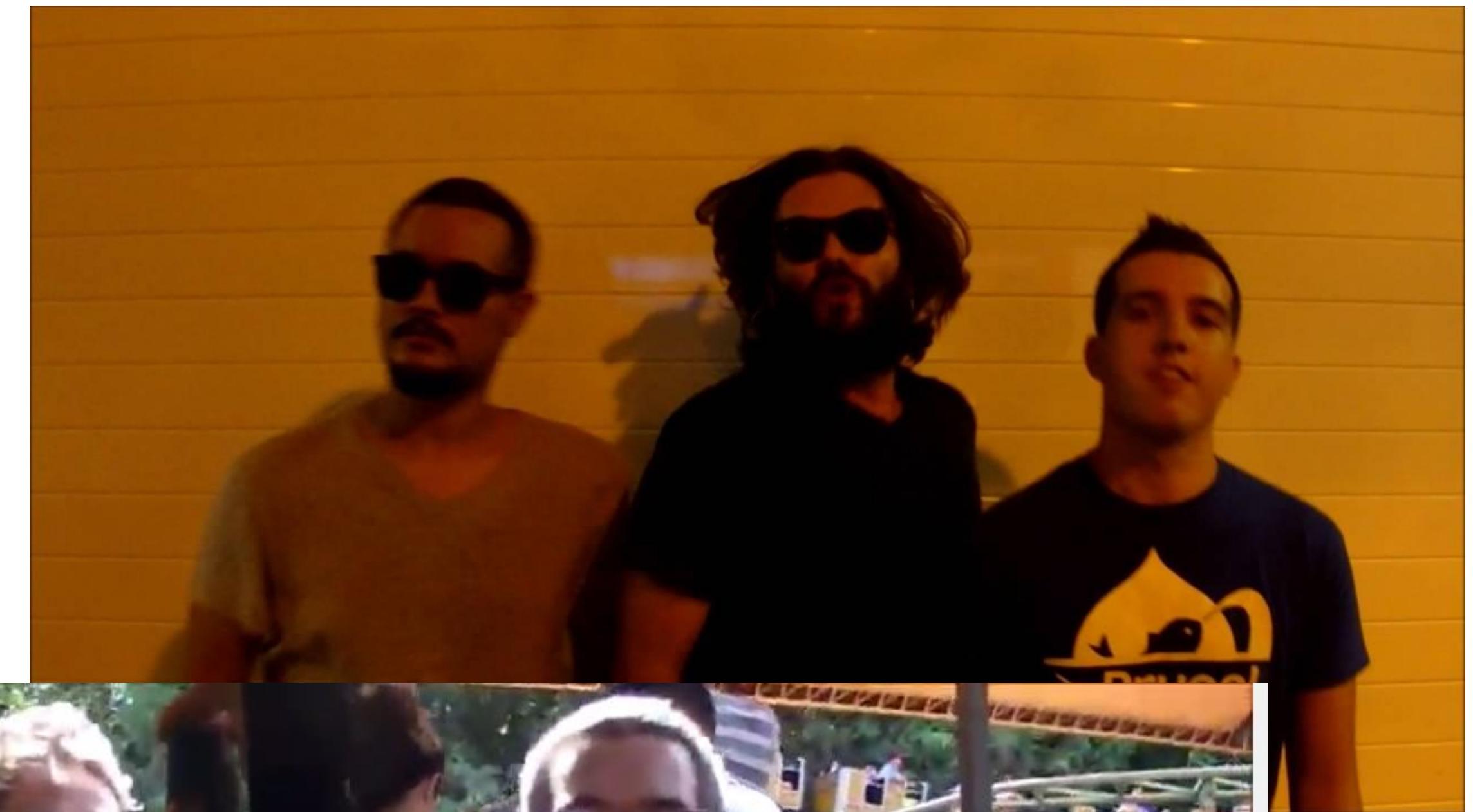
No te olvides! Te esperamos!

- Web : <https://seville2017.drupaldays.org>
- Twitter: @DrupalDevDays
- Facebook: Drupal Dev Days



Nuestra experiencia: El comienzo

- Grupo de viejos conocidos y nos complementamos.
- Experiencia asistiendo/organizando eventos relacionados.
- Comunidad Drupal muy fuerte en Sevilla.
- Queríamos hacer algo diferente.



Nuestra experiencia: El planteamiento inicial

- Detectar los puntos claves del evento.
 - Branding
 - Venue
 - Bien localizado.
 - Examinar presupuestos.
 - Definición de paquetes de sponsors
 - ¿Qué le ofrecemos a las empresas que apuestan por el evento?
 - Entradas y precios de las mismas.
 - ¿Con qué otros miembros podrías contar?

Nuestra experiencia: La ejecución

- División de bloques de trabajo a responsables.
 - Web
 - Comunicación.
 - Búsqueda de sponsors.
 - ..
- Formación de equipos de trabajo buscando más miembros que se quieran unir.
- Definir un timeline.
- Definir MVP
- Establece reuniones periódicas de seguimiento y revisión de metas.

Nuestra experiencia: Tips

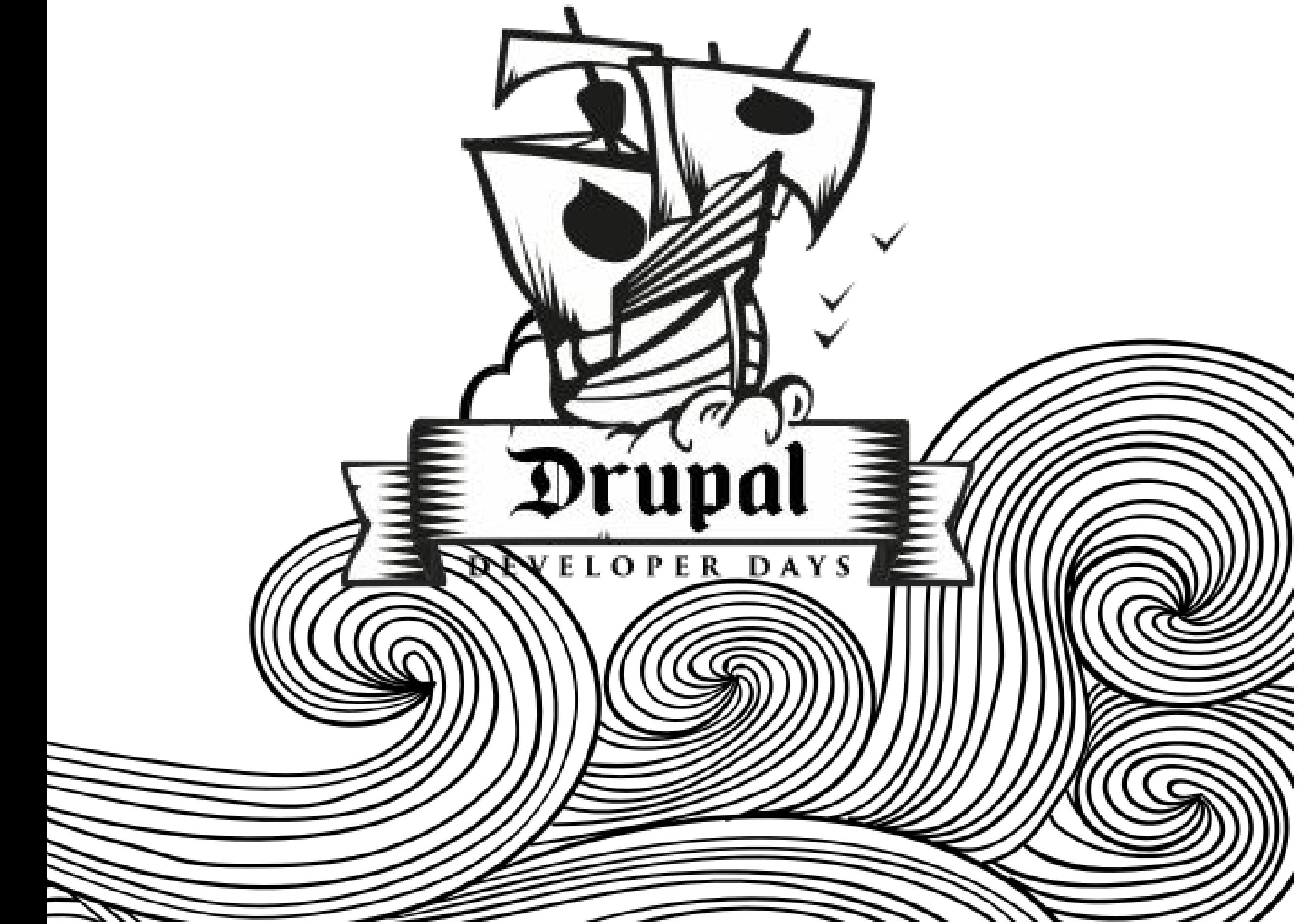
- Conoce bien el perfil del asistente.
- Diversidad, diversidad, diversidad.
- Crea un ambiente de humor y buen rollo. Es clave.
- Se transparente.
- Comunica mucho mucho mucho.
- Haz partícipe a todo el mundo. (de ustedes!)
- Ten en mente que todo el mundo es voluntario.



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Gracias!

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MUCHAS GRACIAS

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NETWORK**BEER**