

ANGULAR...!

LA CUVÉE DE L'ANNÉE 2016 2017



MOI? KILLIAN CHARPENTIER

- Front-End / mobile developer
- OPEN, Lannion

@KillianCharpent

Github: ShamanisTe

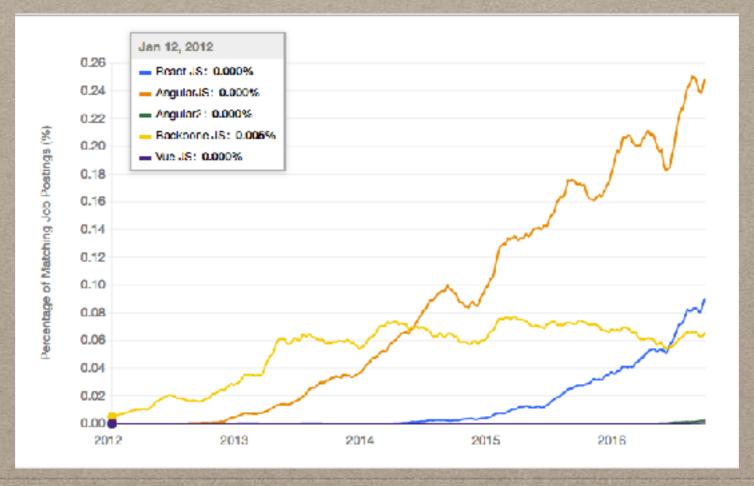


SOMMAIRE

- 1. Rappel AngularJS
- 2. Angular, c'est quoi?
- 3. AngularJS versus Angular
- 4. Oui... mais?
- 5. Conclusion

RAPPEL ANGULARJS

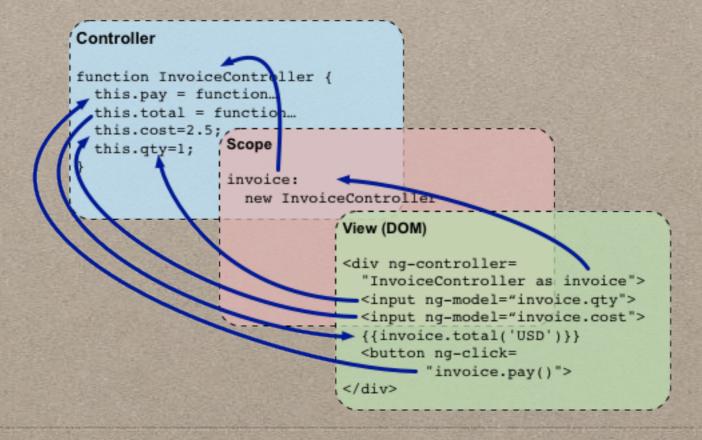
- 2009, propulsé par Google
- Très populaire



RAPPEL ANGULARJS

- 2009, propulsé par Google
- Très populaire

- MV*
- Un framework client complet





RAPPEL ANGULARJS

- Dirty checking
- Third library
- Scope
- Performance render

SOMMAIRE

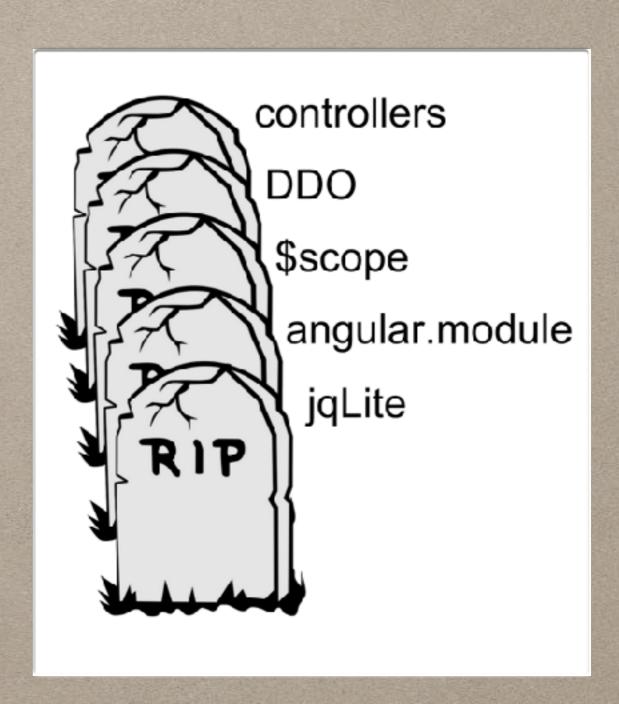
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ANGULAR, C'EST QUOI? SOMMAIRE

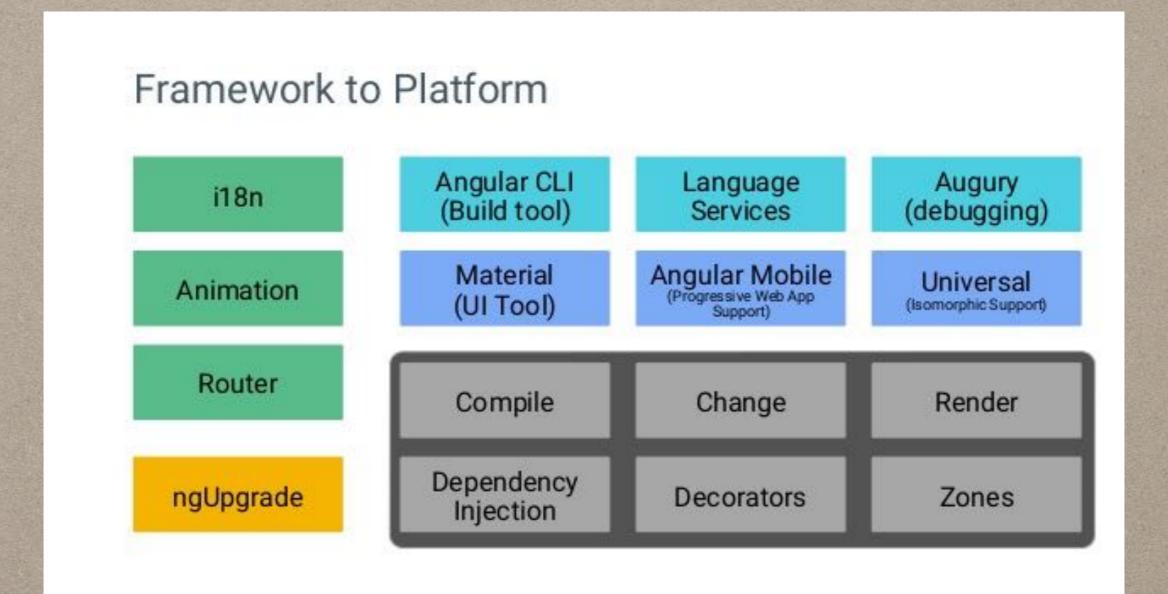
- Présentation
- Nouveaux concepts
- Environnements

ANGULAR, C'EST QUOI? PRÉSENTATION

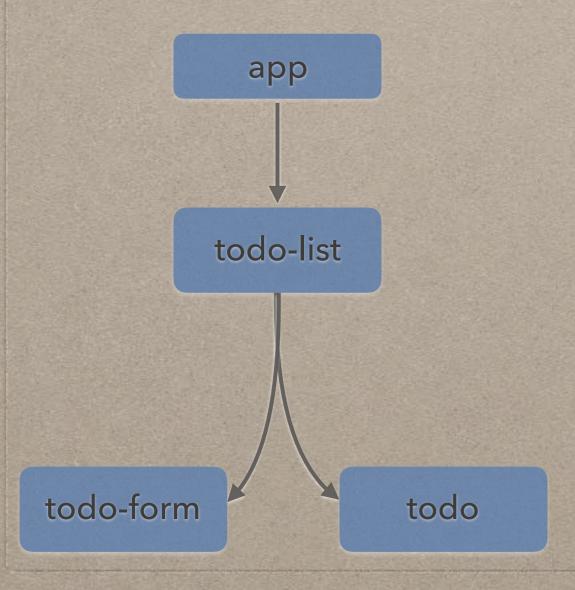
- Version 2.4.8
- Angular !== AngularJS
- YAF
- Basé sur les web standards

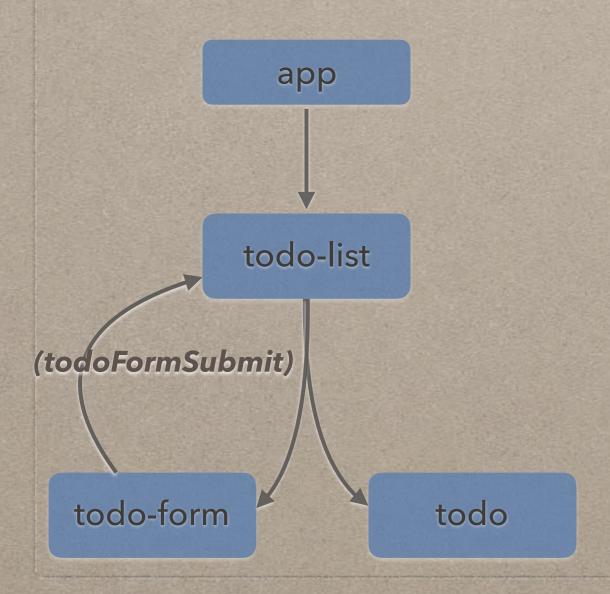


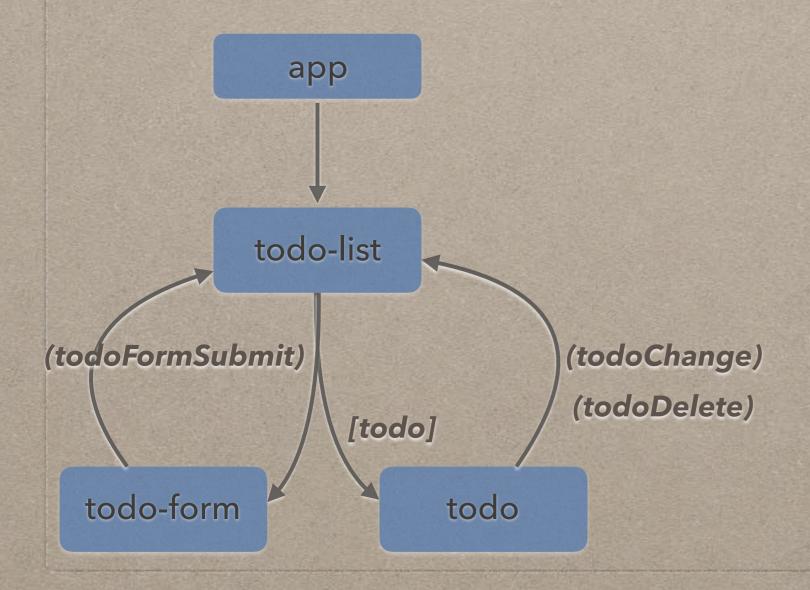
ANGULAR, C'EST QUOI? PRÉSENTATION

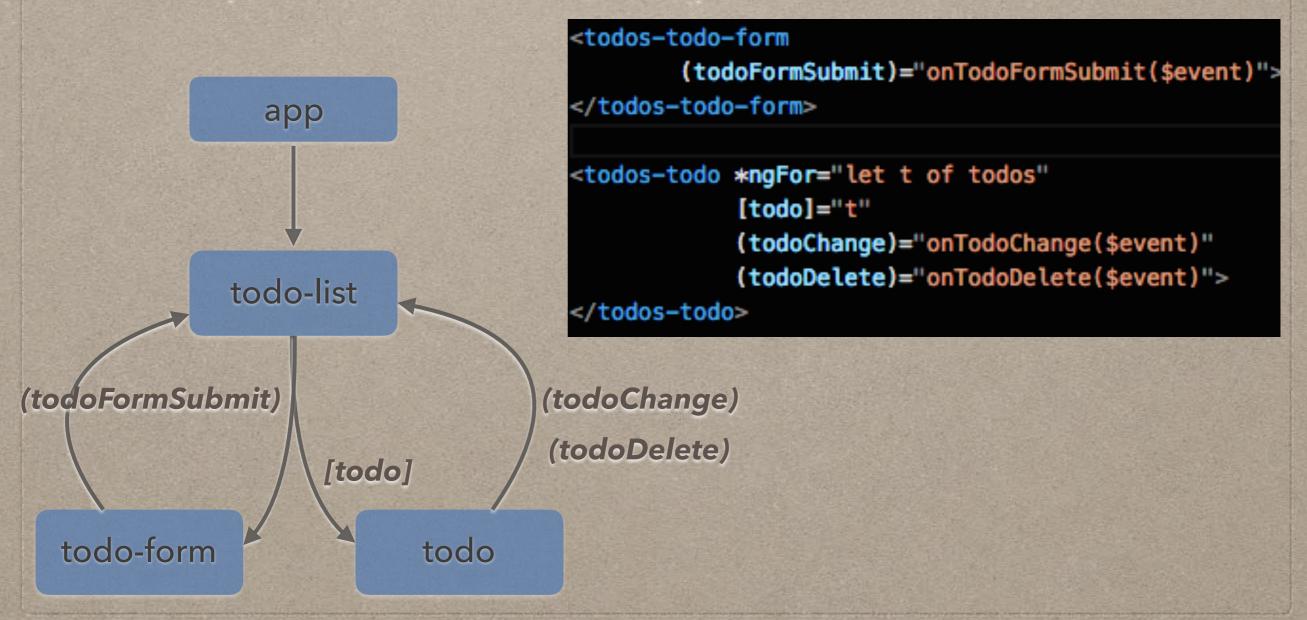












- Component Architecture (pattern)
- Plate forme

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- Plate forme
 - Browser
 - Angular mobile toolkit
 - Angular Universal
 - Ionic2, NativeScript, ReactNative





- Component Architecture (pattern)
- Plate forme
- i18n

- Component Architecture (pattern)
- Plate forme
- i18n
 - ng-xi18n
 - format XLF

- Component Architecture (pattern)
- Plate forme
- i18n
- ZoneJS

- Component Architecture (pattern)
- Plate forme
- i18n
- ZoneJS

```
> debutPresentation();
```

- > obtenirNomParticipants();
- > setTimeout(function(){
 verifierSiNomCourt();
 }, 0);
- > donnerMangerNomCourt();
- > finPresentation();

- Component Architecture (pattern)
- Plate forme
- i18n
- ZoneJS
 - Génération de contexte d'execution
 - Meilleur suivi des tâches asynchrones

- Component Architecture (pattern)
- Plate forme
- i18n
- ZoneJS
- Reactive programming

ENVIRONNEMENTS

"A command line interface for Angular"

Angular CLI

initialisation du projet

\$ ng new my-project

- création de fichiers
- · build
- serve

\$ ng generate my-component

\$ ng build -target=production -env=production

\$ ng serve –env=production

"Server-side Rendering for Angular apps"

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```
<html>
<head>
    <meta charset="UTF-8">
        <title>Universal Test</title>
</head>
<body>
        <demo-app></demo-app>
</body>
</html>
```

"Server-side Rendering for Angular apps"

```
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</body>
</html>
```

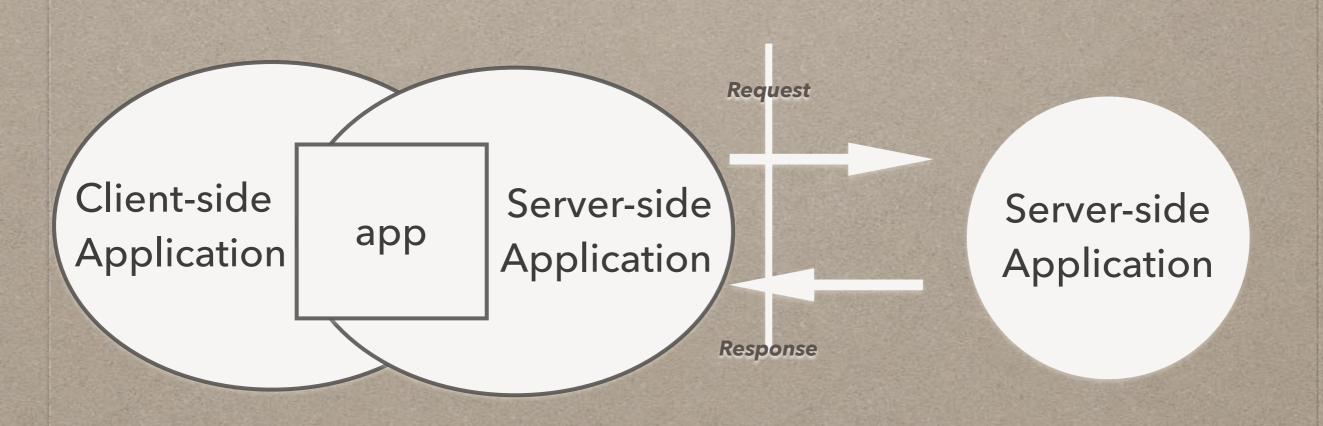
```
<html><head>
  <meta charset="UTF-8">
 <title>Universal Test</title>
</head>
<body>
 <demo-app ng-version="4.0.0-rc.1-213e210">
    <h1>Universal Demo</h1>
    <a routerLink="/" href="/">Home</a>
    <a routerLink="/lazy" href="/lazy">Lazy</a>
    <router-outlet></router-outlet>
    <home-view ng-version="4.0.0-rc.1-213e210">
      <h3>Home View</h3>
    </home-view>
 </demo-app>
</body>
</html>
```

"Server-side Rendering for Angular apps"

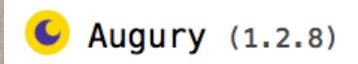
- Back End
- server-rendering
- SEO
- proxy
- cache

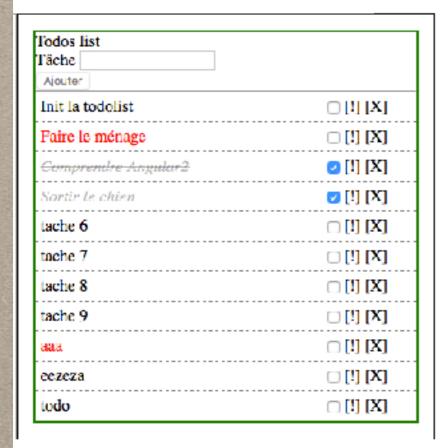
ENVIRONNEMENTS

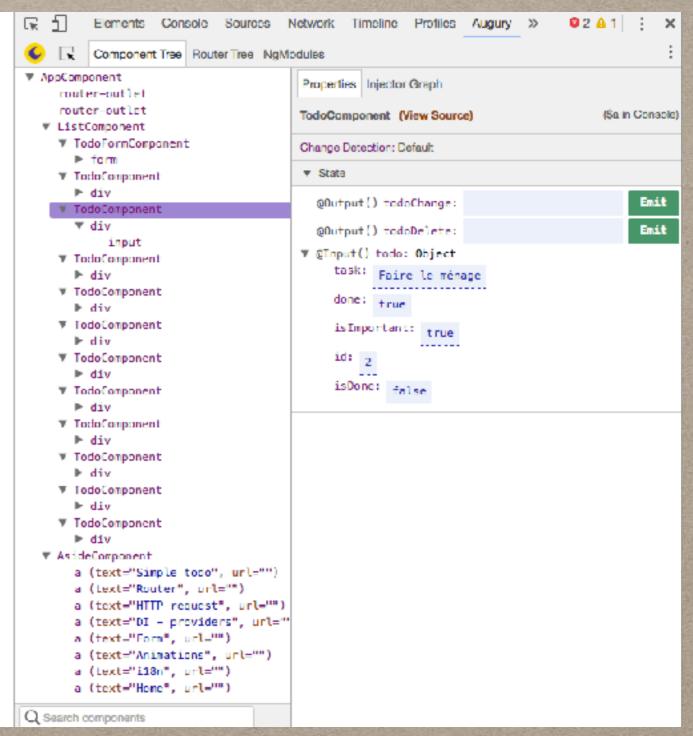
"Server-side Rendering for Angular apps"



ENVIRONNEMENTS







ENVIRONNEMENTS







- nodeJS
- TypeScript
- ES6 / ES7
- Webpack
- RxJS













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ANGULARIS VS ANGULAR SOMMAIRE

- Bootstrap une application
- Module
- \$controller / Component
- Binding

ANGULARIS VS ANGULAR BOOTSTRAP UNE APPLICATION

AngularJS

```
// from JS
(function(){
   angular.bootstrap(document, ['AppModule']);
})();
// from HTML
<html data-ng-app="AppModule"></html>
```

Angular

```
import './polyfills.ts';
import { platformBrowserDynamic } from '@angular/platform-browser-dynamic';
import { enableProdMode } from '@angular/core';
import { environment } from './environments/environment';
import { AppModule } from './app/';
if (environment.production) {
  enableProdMode();
}
platformBrowserDynamic().bootstrapModule(AppModule);
```

ANGULARJS VS ANGULAR MODULE

AngularJS

```
(function(){
   angular.module("AppModule", [/*module dependencies*/]);
})();
```

Angular

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

@NgModule({
   declarations: [],
   imports: [/*module dependencies*/],
   bootstrap: []
})
export class AppModule {}
```

ANGULARJS VS ANGULAR \$CONTROLLER / COMPONENT

```
(function() {
  'use strict';
 function AppController() {
      var app = this;
      app.title = 'Hello Open';
 }
 angular.module("AppModule")
    .controller("AppController", AppController);
 angular.module('AppModule').component('AppComponent', {
   templateUrl: 'appComponent.html',
   controller: AppController
 });
})();
// from HTML
<div data-ng-controller="AppController as app">
 {{ app.title}}
</div>
// from appComponent
<span>Name: {{$ctrl.title}}</span>
```

```
import { Component } from '@angular/core';
@Component({
               'app-root',
  selector:
  templateUrl: './app.component.html',
               ['./app.component.css']
  styleUrls:
export class AppComponent {
  title = 'Hello Open';
  constructor() { }
//app.component.html
<div>{{ title }}</div>
// AppModule
@NgModule({
  declarations: [AppComponent],
  /** ... */
export class AppModule {}
// Bootstrap
@NgModule({
  bootstrap: [AppComponent],
 /** ... */
export class AppModule {}
```

ANGULARJS VS ANGULAR BINDING

AngularJS

Angular

```
// .... //
export class TodoComponent implements OnInit {

@Input() todo: Todo;
@Output() todoChange: EventEmitter<TodoChangeEventArgs> = new EventEmitter<TodoChangeEventArgs>();
@Output() todoDelete: EventEmitter<TodoDeleteEventArgs> = new EventEmitter<TodoDeleteEventArgs>();

constructor() {
}
// .... //
```

ANGULARJS VS ANGULAR DEMO



Let's rock'n component

ANGULARJS VS ANGULAR SUMMARY

- Simplification
- Modularité
- Beaucoup de notions communes

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OUI... MAIS?

- Migration compliquée (1 -> 2)
- Black box
- Des subtilités
- Manque d'harmonie des outils
- Tout n'est pas finalisé

OUI... MAIS?



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CONCLUSION



- Très moderne
- Meilleur fiabilisation du code
- · Vers un Angular plus unifié