

ANGULAR 2

A BRIEF INTRODUCTION

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ANGULAR URLS

- Angular 1 - angularjs.org
- Angular 2 - angular.io

ANGULAR 2

- Faster
- More powerful templating
- Beta released Dec 2015

UPGRADE OPTIONS

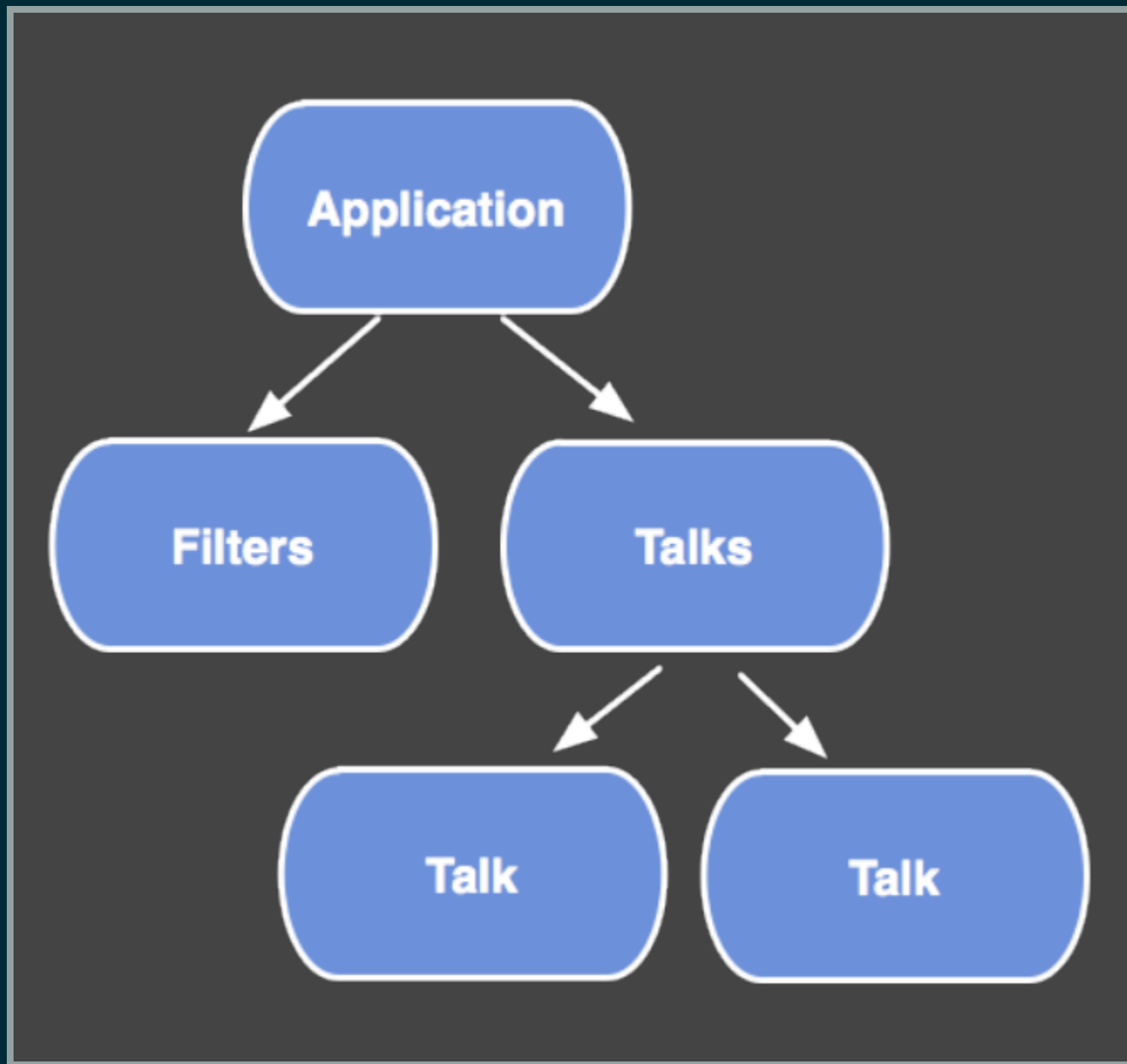
- ngUpgrade (1.x and 2.x code mixed)
- ngForward (2.x style code in 1.x)

TYPESCRIPT OR JAVASCRIPT

- TypeScript preferred by team
- ES 5 still fully supported

COMPONENTS

- Core building block
- Single root element
- Creates tree hierarchy



IN LIEU OF ANGULAR 1

- Directives
- Controllers
- Scope

Angular 1

```
angular.module('app', [ ])  
.directive('hello', function () {  
  return {  
    restrict: 'E',  
    template: '<div>Hello world</div>',  
  };  
});
```

Angular 2

```
@Component({  
  selector: 'hello',  
  template: '<div>Hello world</div>'  
})  
class App {}
```

BINDING SYNTAX

1. **data -> view (1-way)**
{{val}} OR [target] = "val"
2. **view -> data (1-way)**
(target) = "val"
3. **2-way**
[(target)] = "val"

BINDING EXAMPLE

Angular 1

```
<input type="text" ng-model="model.name">
```

Angular 2

```
<input type="text" [(ng-model)]="model.name">
```

DECORATORS

```
function readonly(component) {  
  component.writable = false;  
  return component;  
}
```

```
@readonly  
class App { }
```

TALKCMP.TS

```
@Component({
  selector: 'talk-cmp',
  directives: [FormattedRating, WatchButton, RateButton],
  templateUrl: 'talk_cmp.html'
})
class TalkCmp {
  @Input() talk: Talk;
  @Output() rate: EventEmitter;
  //...
}
```

TALK_CMP.HTML

```
{{talk.title}}  
{{talk.speaker}}  
<formatted-rating [rating]="talk.rating"></formatted-rating>  
<watch-button [talk]="talk"></watch-button>  
<rate-button [talk]="talk"></rate-button>
```

FORMS (TS)

```
@Component({
  selector: 'login-page',
  templateUrl: 'login-page.html'
})
export class LoginPage {
  constructor(fb: FormBuilder) {
    this.loginForm = fb.group({
      email: ['', Validators.required],
      password: ['', Validators.required]
    });
  }
  doLogin(event) {
    console.log(this.loginForm.value);
    event.preventDefault();
  }
}
```

FORMS (HTML)

```
<form [ngformmodel]="loginForm" (submit)="doLogin($event)">
  <input ngcontrol="email" type="email" placeholder="Your email">
  <input ngcontrol="password" type="password" placeholder="Your password">
  <button type="submit">Log in</button>
</form>
```


PRODUCTION READY?

- Still beta
- Google Adwords

BUILD PIPELINE

- Systemjs
- Webpack

FUTURE PLANS

- Reduce payload (145k min/gz)
- Enhance angular CLI
- Support for animations.
- I18n and L10n support.
- Maintain stable API

OTHER RESOURCES

- egghead.io
- learnangular2.com
- [angular2-education](http://angular2-education.com)