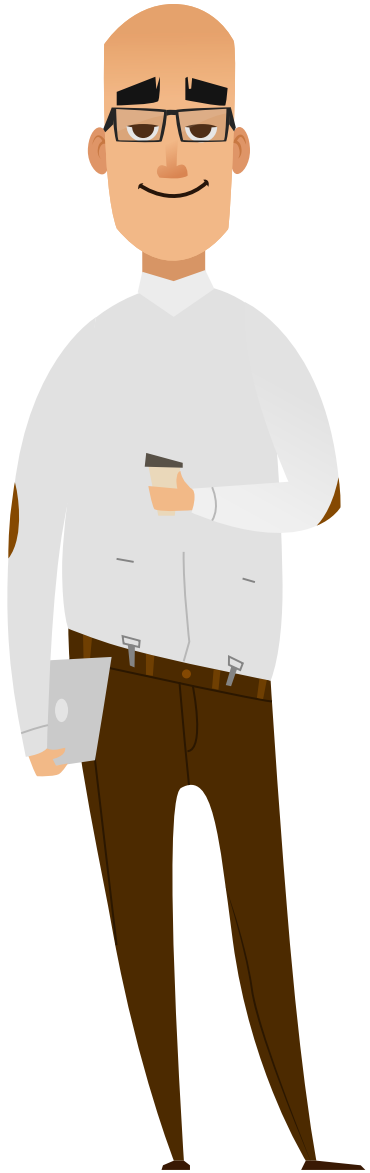
Angular 4 не так уж и плох,

а если задуматься то и просто хорош.

Алексей Охрименко (IPONWEB)

Поможете ли вы мне?

Алексей Охрименко



Tweeter: @Ai_boy

Gitter: aiboy

IPONWEB

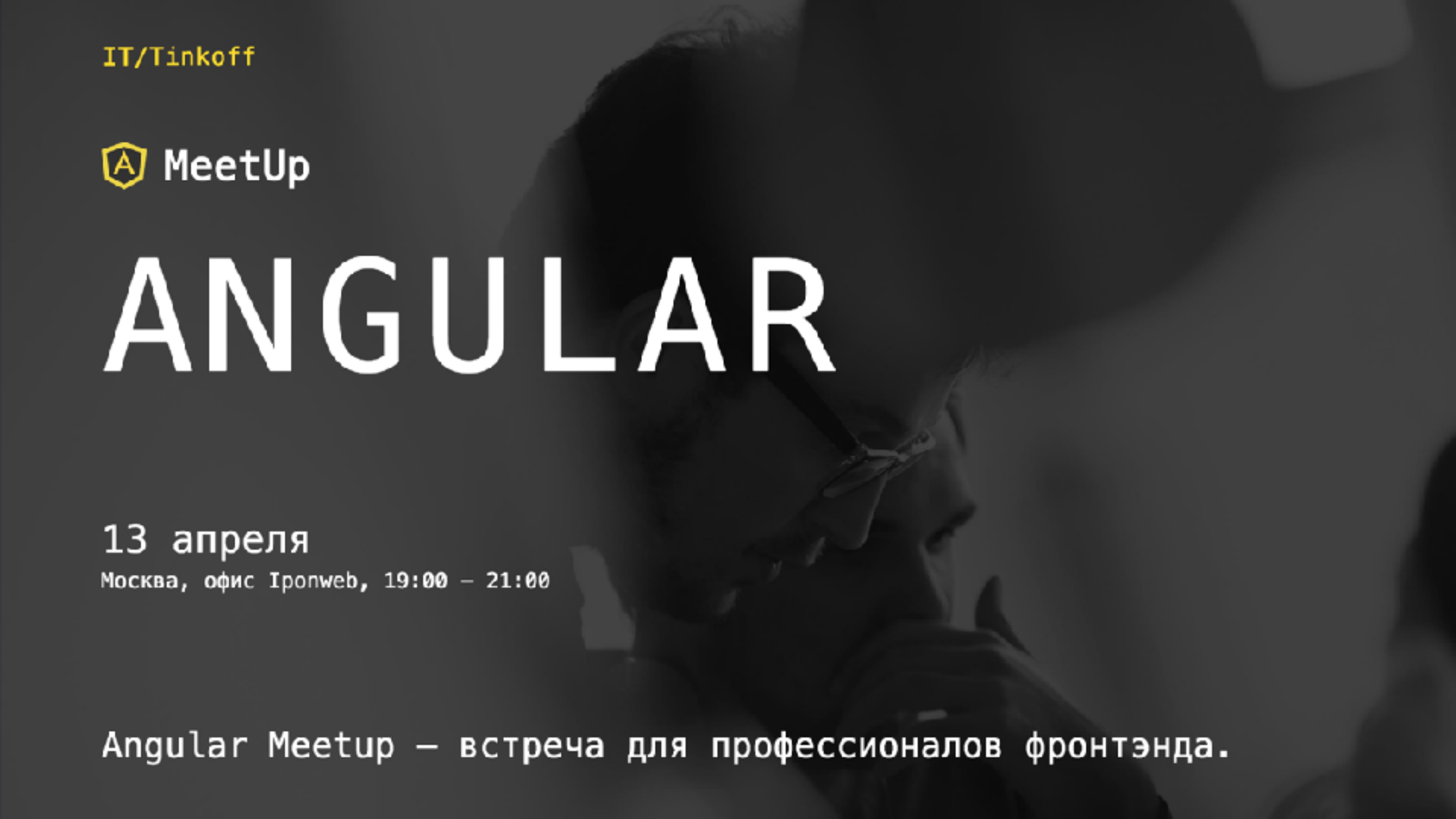
IT/Tinkoff

MeetUp

ANGULAR

13 апреля

Москва, офис Iponweb, 19:00 – 21:00



Angular Meetup — встреча для профессионалов фронтэнда.

Telegram

https://t.me/angular_ru

> 800


SPOILER
ALERT!

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

@Component({
  moduleId: module.id,
  selector: 'project-name-app',
  template: `
    <h1 (click)='onClick()'>
      {{title}}
    </h1>
  `,
  styleUrls: ['project-name.component.css']
})
export class PROJECTNAMEAppComponent {
  title = 'project-name works!';
}
```

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

@Component({
  moduleId: module.id,
  selector: 'project-name-app',
  template: `
    <h1 (click)='onClick()'>
      {{title}}
    </h1>
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  styleUrls: ['project-name.component.css']
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  title = 'project-name works!';
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  moduleId: module.id,
  selector: 'project-name-app',
  template: `
    <h1 (click)='onClick()'>
      {{title}}
    </h1>
  `,
  styleUrls: ['project-name.component.css']
})
export class PROJECTNAMEAppComponent {
  title = 'project-name works!';
}
```
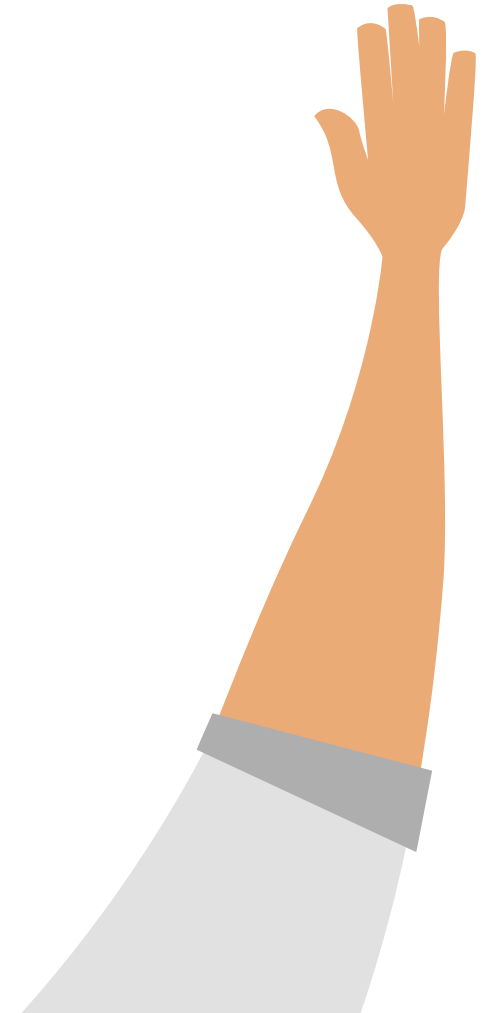
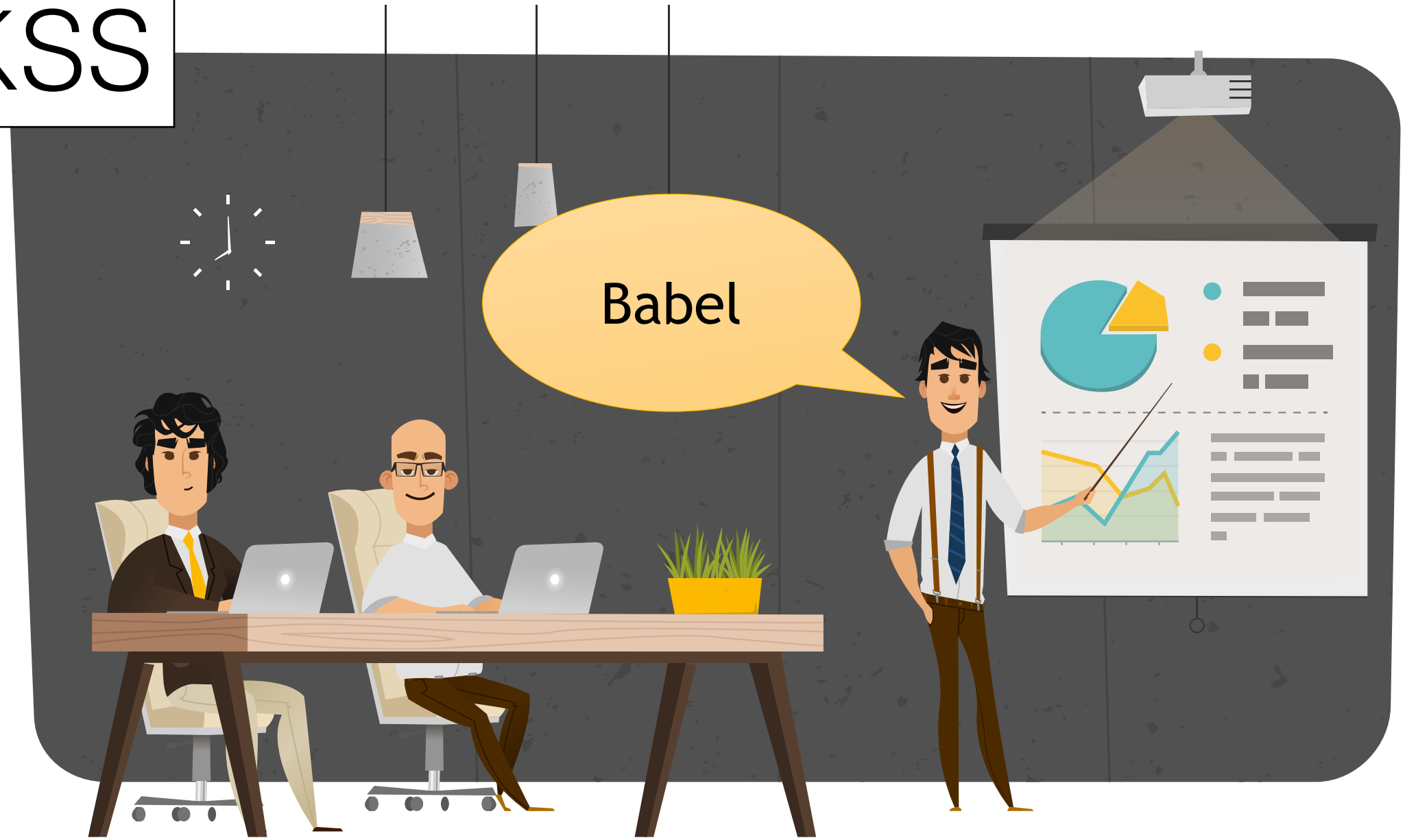

Глава №1 - И была рука

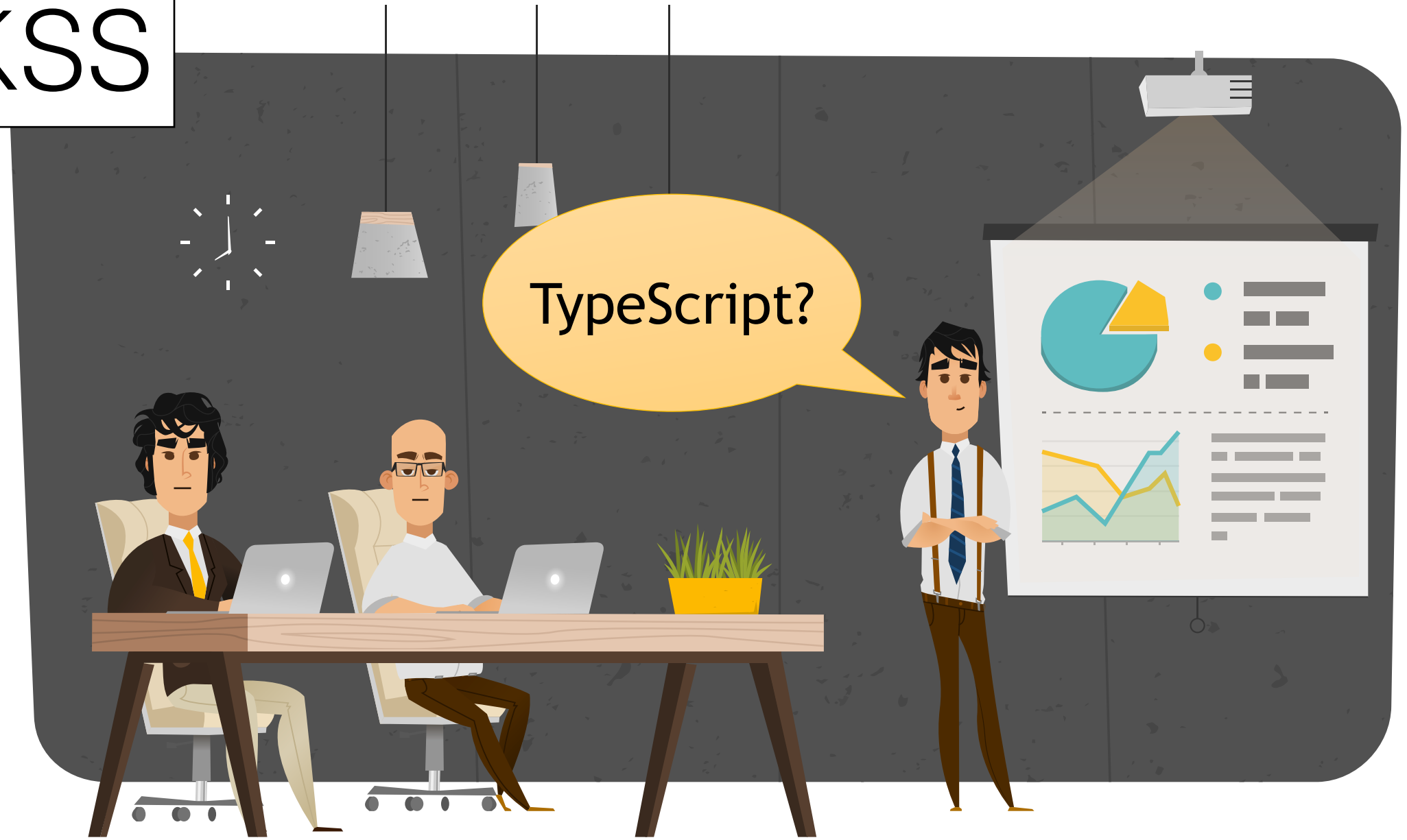


KSS

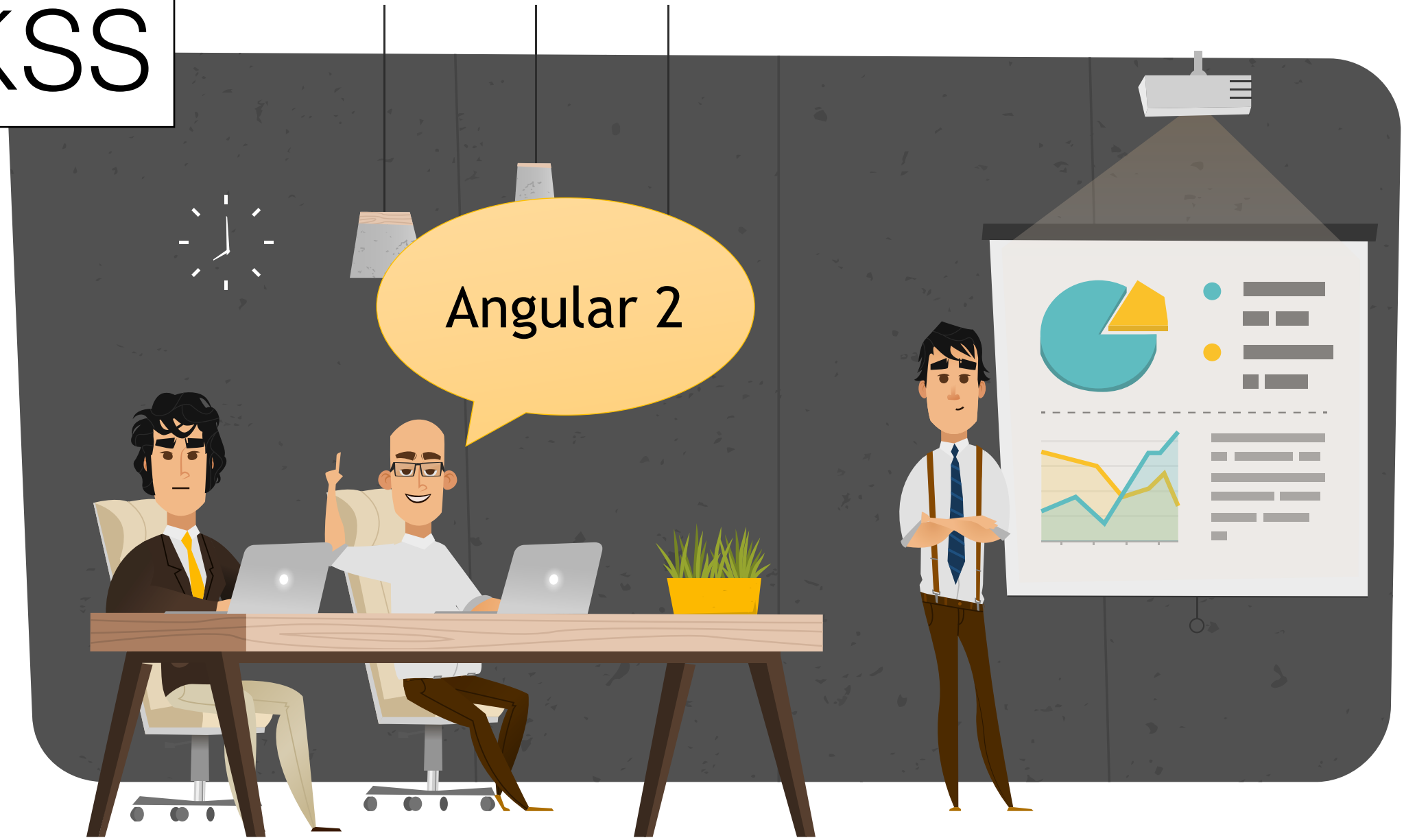
KSS



KSS



KSS



Глава №2 - Горы отвращения

Angular 2 is Beta*

* - now RC1

ASP.Net MVC - Developer Preview 2

You Retweeted

Jonny Buchanan @jbscript · 23 Nov 2015

Dear Angular 2. Wat.

Pin it

```
<ul>
  <li *ng-for="#user of users">
    {{ user.name }} is {{ user.age }} years old.
  </li>
<ul>
```

As you can see there's no more `ng-repeat`, it's `ng-for` now. You are probably thinking: "why the asterisk?!". The answer to that is, it's syntactic sugar. What you're really doing is:

```
<ul>
  <template ng-for #user [ng-for-of]="users">
    <li>{{ user.name }} is {{ user.age }} years old.</li>
  </template>
</ul>
```

131 94 ...

Raymond Camden
@raymondcamden

Follow

@mgonto i really dont like Angular 2 so far. not going to judge it till i try writing and not going to bother till it locks down

LIKE
1

jbarket
@jbarket

Follow

I really, really want to be excited about Angular 2, but all the code samples look like decorators vomited all over them.

@UglyAsHell { }

```
/**
 * Simplest possible template in AngularJs-ISH style
 *
 * @param {String} template - template string
 * @param {Object} ctx - template context
 * @param {Object} eventHandlerObject - object that will be used as "this" in event handling
 * @returns {Node} returns dom node element
 */
export default function angularish(template, ctx, eventHandlerObject) {
    var node;
    var container = document.createElement('div');

    container.innerHTML = template;

    var walker = document.createTreeWalker(container, NodeFilter.SHOW_ELEMENT, null, false);
    while (node = walker.nextNode()) {

        // inheritance of context
        node.ctx = node.ctx || node.parentNode.ctx || ctx;

        // ng-scope allows you to change scope of the node (new scope can be any property of old
scope)
        if (node.getAttribute('ng-scope')) {

            node.ctx = _getValue(node.ctx, node.getAttribute('ng-scope'));

        }
        // ng-loop will repeat first child (TODO: reapeat content) and assign correct context
        if (node.getAttribute('ng-loop')) {
```

```
/**
 * Simplest possible template in AngularJs-ISH style
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 * @param {String} template - template string
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/**
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    var node;
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    container.innerHTML = template;

    var walker = document.createTreeWalker(container, NodeFilter.SHOW_ELEMENT, null, false);
    while (node = walker.nextNode()) {

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        node.ctx = node.ctx || node.parentNode.ctx || ctx;

        // ng-scope allows you to change scope of the node (new scope can be any property of old
scope)
        if (node.getAttribute('ng-scope')) {

            node.ctx = _getValue(node.ctx, node.getAttribute('ng-scope'));

        }
        // ng-loop will repeat first child (TODO: reapeat content) and assign correct context
        if (node.getAttribute('ng-loop')) {
```

```
    node.value = _getValue(node.ctx, node.getAttribute('ng-value'));

}
// ng-selected will set selected attribute depending on true-finess of value
if (node.getAttribute('ng-selected')) {

    var selected = _getValue(node.ctx, node.getAttribute('ng-selected'));
    if (selected) {
        node.setAttribute('selected', 'yes');
    }

}
// ng-text will assign text to node no need for escaping
if (node.getAttribute('ng-text')) {

    node.innerText = _getValue(node.ctx, node.getAttribute('ng-text'));

}
// ng-class will simply assign class from defined property
if (node.getAttribute('ng-class')) {

    var classVal = _getValue(node.ctx, node.getAttribute('ng-class'));
    if (classVal) {
        node.className += ' ' + classVal;
    }

}
// ng-show shows elements depending on true-finess of the value
if (node.getAttribute('ng-show')) {
```

```
        // ng-scope allows you to change scope of the node (new scope can be any property of old
scope)
        if (node.getAttribute('ng-scope')) {

            node.ctx = _getValue(node.ctx, node.getAttribute('ng-scope'));

        }
        // ng-loop will repeat first child (TODO: reapeat content) and assign correct context
        if (node.getAttribute('ng-loop')) {

            var child = node.children[0];
            var array = _getValue(node.ctx, node.getAttribute('ng-loop')) || [];
            node.removeChild(child);
            array.forEach((item) => {
                child = child.cloneNode(true);
                child.ctx = item;
                node.appendChild(child);
            });

        }
        // ng-value will assign value to node
        if (node.getAttribute('ng-value')) {

            node.value = _getValue(node.ctx, node.getAttribute('ng-value'));

        }
        // ng-selected will set selected attribute depending on true-finess of value
        if (node.getAttribute('ng-selected')) {
```

```
        // ng-change will add "change" event handler
        if (node.getAttribute('ng-change')) {
            // closure to rescue
            ((node)=> {
                node.addEventListener('change', (event) => {
                    eventHandlerObject[node.getAttribute('ng-change')]
                      .bind(eventHandlerObject)(node.ctx, event);
                }, true);
            })(node);
        }
        // ng-click will add "click" event handler
        if (node.getAttribute('ng-click')) {
            // closure to rescue
            ((node)=> {
                node.addEventListener('click', (event) => {
                    eventHandlerObject[node.getAttribute('ng-click')]
                      .bind(eventHandlerObject)(node.ctx, event);
                }, true);
            })(node);
        }
    }

    return container;
}

function _getValue(ctx, attrVal) {
    if (attrVal === 'self') {
        return ctx;
    }
```

```
    }
    // ng-hide shows elements depending on false-iness of the value
    if (node.getAttribute('ng-hide')) {

        var isHidden = _getValue(node.ctx, node.getAttribute('ng-hide'));
        if (isHidden) {
            node.style.display = 'none';
        }

    }
    // ng-change will add "change" event handler
    if (node.getAttribute('ng-change')) {
        // closure to rescue
        ((node)=> {
            node.addEventListener('change', (event) => {
                eventHandlerObject[node.getAttribute('ng-change')]
                  .bind(eventHandlerObject)(node.ctx, event);
            }, true);
        })(node);
    }
    // ng-click will add "click" event handler
    if (node.getAttribute('ng-click')) {
        // closure to rescue
        ((node)=> {
            node.addEventListener('click', (event) => {
                eventHandlerObject[node.getAttribute('ng-click')]
                   .bind(eventHandlerObject)(node.ctx, event);
            }, true);
        })(node);
    }
```

[]

()

[()]

[property]=‘value’ -> property=‘value’

()

[()]

[property]=‘value’ -> property=‘value’

(event)=‘handler()’ -> on-event=‘handler()’

[()]

[property]=‘value’ -> property=‘value’

(event)=‘handler()’ -> on-event=‘handler()’

[(target)]=‘value’ -> on-change=‘update()’
-> target=‘value’

bind-property=‘value’ -> property=‘value’

(event)=‘handler()’ -> on-event=‘handler()’

[(target)]=‘value’ -> on-change=‘update()’
-> target=‘value’

bind-property=‘value’ -> property=‘value’

on-event=‘handler()’ -> on-event=‘handler()’

[(target)]=‘value’ -> on-change=‘update()’
-> target=‘value’

bind-property='value' -> property='value'

on-event='handler()' -> on-event='handler()'

bindon-prop='value' -> on-change='update()'
-> target='value'

```
<hero-detail *ngIf="currentHero"
    [hero]="currentHero"/>
```

```
<hero-detail template="ngIf:currentHero"
     [hero]="currentHero"/>
```

```
<template [ngIf]="currentHero">
  <hero-detail [hero]="currentHero"></hero-detail>
</template>
```

System.js & JSPM & System.js Builder

http://plnkr.co/

System.js & JSPM & System.js Builder

```
    <title>angular2 playground</title>
    <link rel="stylesheet" href="style.css" />
    <script src="https://code.angularjs.org/2.0.0-beta.17/
angular2-polyfills.js"></script>
    <script src="https://code.angularjs.org/tools/system.js"></
script>
    <script src="https://code.angularjs.org/tools/
typescript.js"></script>
    <script src="config.js"></script>
    <script>
        System.import('app')
          .catch(console.error.bind(console));
    </script>
  </head>
```

System.js & JSPM & System.js Builder

```
    <title>angular2 playground</title>
    <link rel="stylesheet" href="style.css" />
    <script src="https://code.angularjs.org/2.0.0-beta.17/
angular2-polyfills.js"></script>
    <script src="https://code.angularjs.org/tools/system.js"></
script>
    <script src="https://code.angularjs.org/tools/
typescript.js"></script>
    <script src="config.js"></script>
    <script>
        System.import('app')
          .catch(console.error.bind(console));
    </script>
  </head>
```

```
System.config({
  //use typescript for compilation
  transpiler: 'typescript',
  //typescript compiler options
  typescriptOptions: {
    emitDecoratorMetadata: true
  },
  //map tells the System loader where to look for things
  map: {
    app: "./src",
    '@angular': 'https://npmcdn.com/@angular',
    'rxjs': 'https://npmcdn.com/rxjs@5.0.0-beta.6'
  },
  //packages defines our app package
  packages: {
    app: {
      main: './main.ts',
      defaultExtension: 'ts'
    },
    '@angular/core': {
      main: 'core.umd.js',
      defaultExtension: 'js'
    },
    '@angular/compiler': {
      main: 'compiler.umd.js',
      defaultExtension: 'js'
    },
    '@angular/common': {
      main: 'common.umd.js',
      defaultExtension: 'js'
    },
    '@angular/platform-browser-dynamic': {
      main: 'platform-browser-dynamic.umd.js',
      defaultExtension: 'js'
    },
    '@angular/platform-browser': {
      main: 'platform-browser.umd.js',
      defaultExtension: 'js'
    },
    rxjs: {
      defaultExtension: 'js'
    }
  }
});
```

44 строчки конфига

```
System.config({
  //use typescript for compilation
  transpiler: 'typescript',
  //typescript compiler options
  typescriptOptions: {
    emitDecoratorMetadata: true
  },
  //map tells the System loader where to look for things
  map: {
    app: "./src",
    '@angular': 'https://npmcdn.com/@angular',
    'rxjs': 'https://npmcdn.com/rxjs@5.0.0-beta.6'
  },
  //packages defines our app package
  packages: {
    app: {
      main: './main.ts',
      defaultExtension: 'ts'
    },
    '@angular/core': {
      main: 'core.umd.js',
      defaultExtension: 'js'
    },
    '@angular/compiler': {
      main: 'compiler.umd.js',
      defaultExtension: 'js'
    },
    '@angular/common': {
      main: 'common.umd.js',
      defaultExtension: 'js'
    },
    '@angular/platform-browser-dynamic': {
      main: 'platform-browser-dynamic.umd.js',
      defaultExtension: 'js'
    },
    '@angular/platform-browser': {
      main: 'platform-browser.umd.js',
      defaultExtension: 'js'
    },
    rxjs: {
      defaultExtension: 'js'
    }
  }
});
```

Webpack

- Angular CLI
- Angular Class Webpack Starter

TypeScript

TypeScript

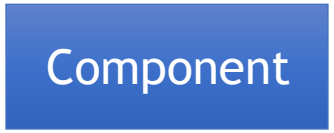
TypeScript

TypeScript

- .Net, Java, Scala background
- SOLID, Design Patterns
- Poor documentation - «google search ftw»

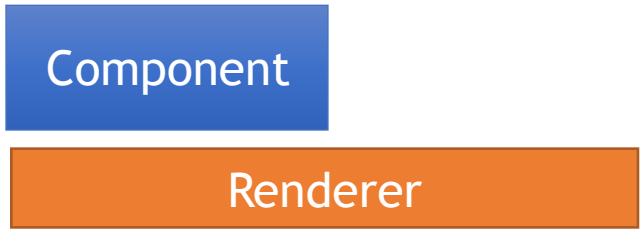
Меняем взгляд на вещи

React



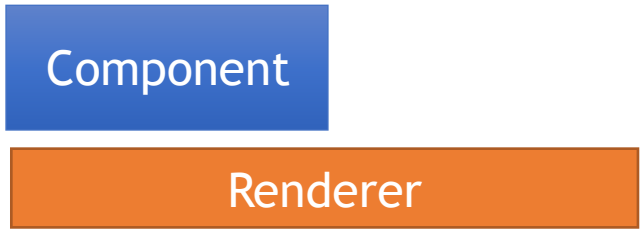
Меняем взгляд на вещи

React

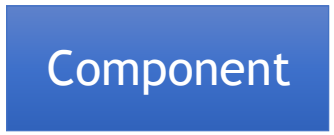


Меняем взгляд на вещи

React

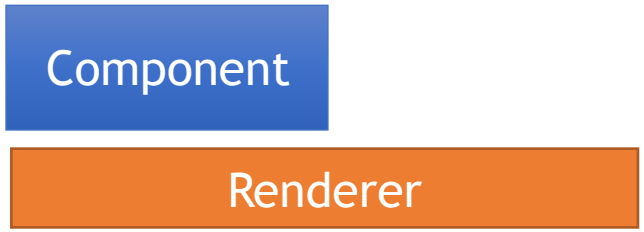


Angular

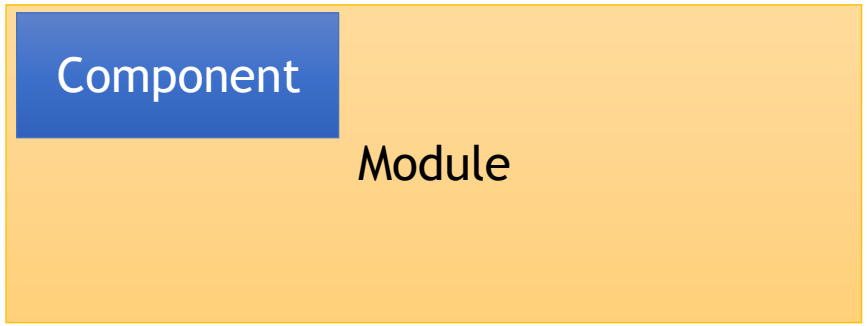


Меняем взгляд на вещи

React

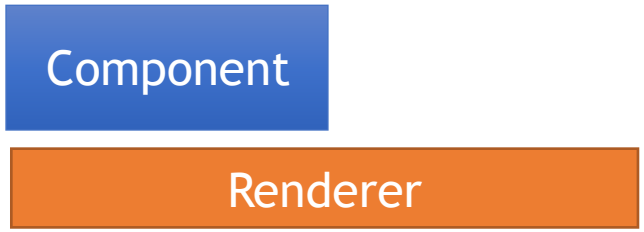


Angular

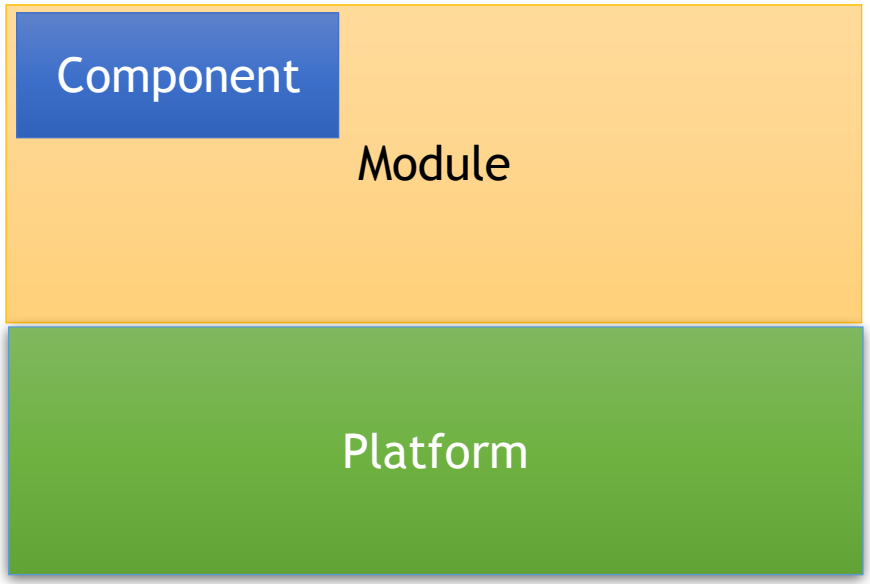


Меняем взгляд на вещи

React

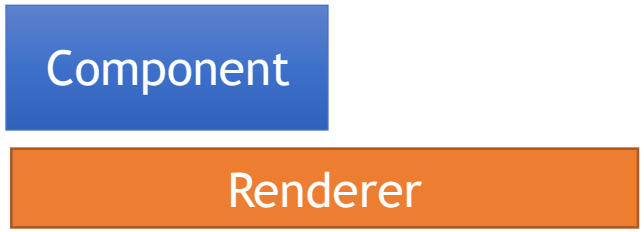


Angular

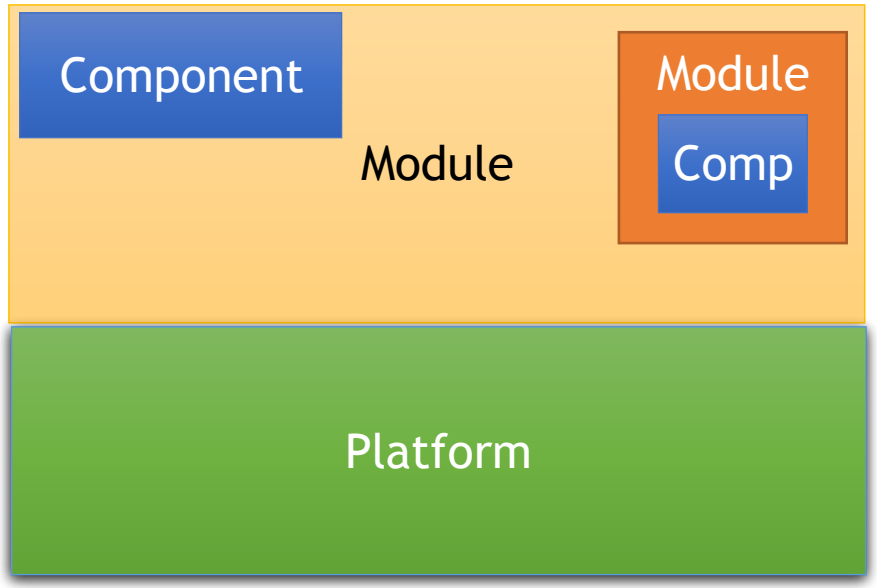


Меняем взгляд на вещи

React

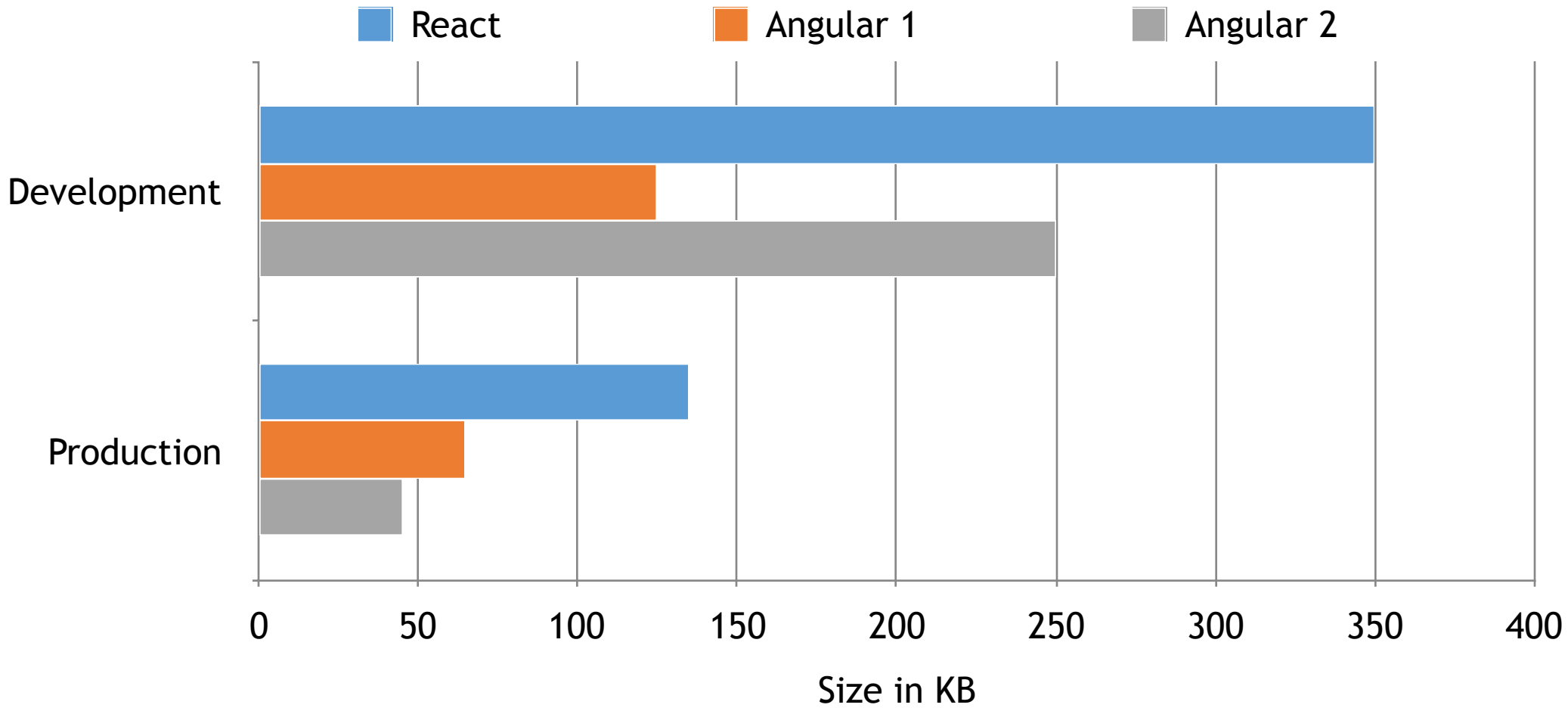


Angular



Глава №3 - Добыча

Размер

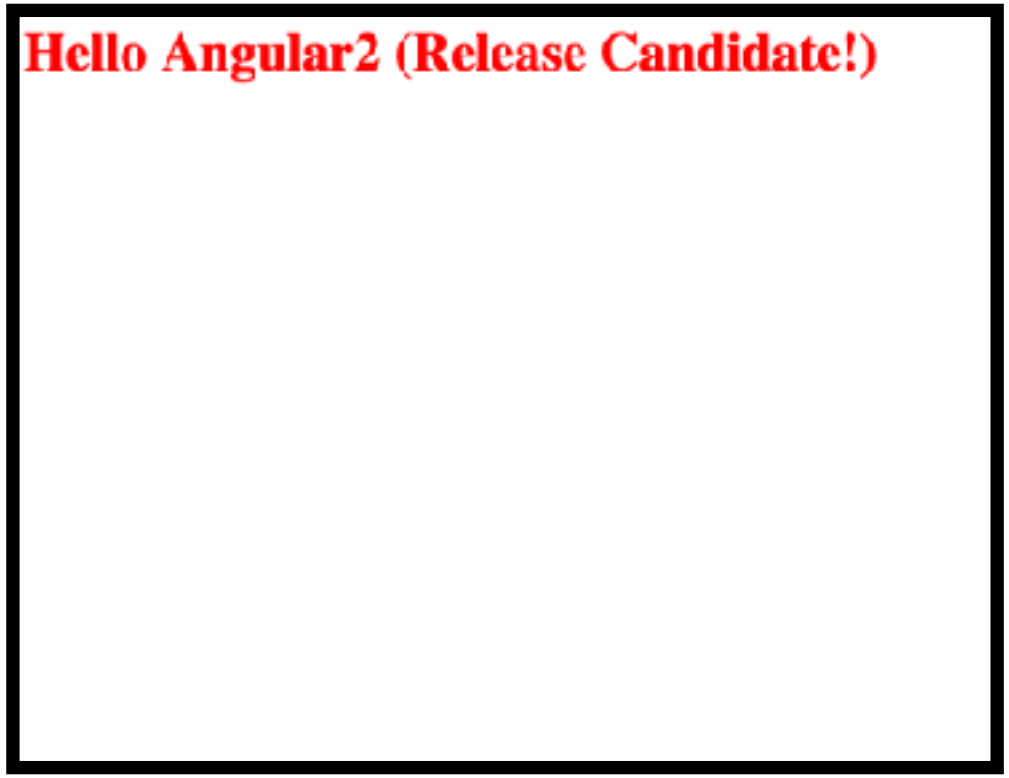

React
Angular 1
Angular 2
Development
Production
0
50
100
150
200
250
300
350
400
Size in KB

Размер - Angular Router

```
@Routes([
 {path: 'user/:id', component: "UserCmp"},
 {path: 'role/:id', component: "RoleCmp"},
])
class MyApp{}
```

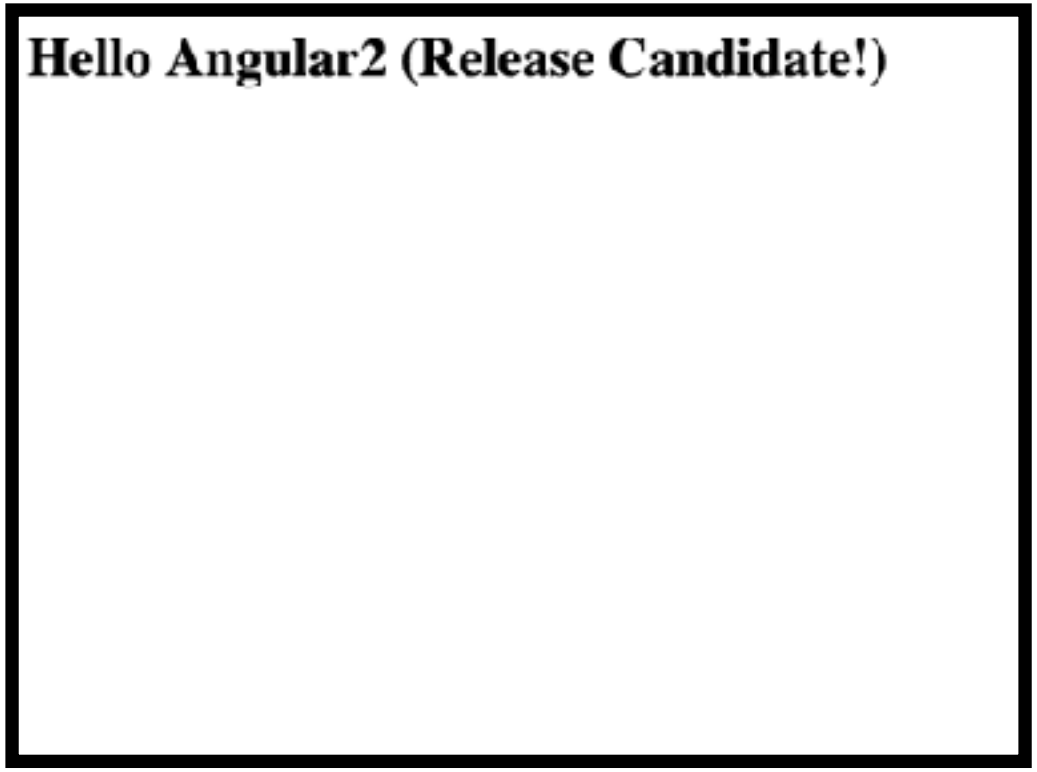
CSS

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

@Component({
  selector: 'my-app',
  providers: [],
  styles: [`
    h2 { color: red; }
  `],
  template: `
    <div>
      <h2>Hello {{name}}</h2>
    </div>
  `,
  directives: []
})
export class App {
  constructor() {
    this.name = 'Angular2 (Release Candidate!)'
  }
}
```



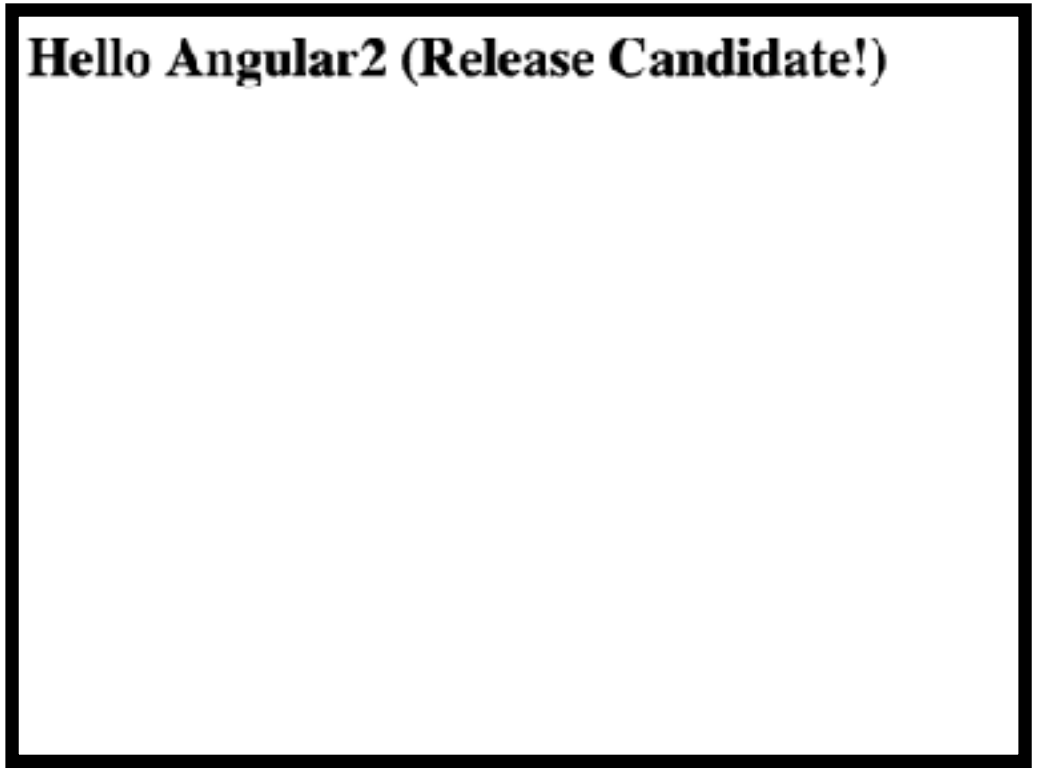
CSS

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

@Component({
  selector: 'my-app',
  providers: [],
  styles: [`
    body { color: red; }
  `],
  template: `
    <div>
      <h2>Hello {{name}}</h2>
    </div>
  `,
  directives: []
})
export class App {
  constructor() {
    this.name = 'Angular2 (Release Candidate!)'
  }
}
```



CSS

```
<script>
    System.import('app')
      .catch(console.error.bind(console));
  </script>
  <style>body[_ngcontent-sfq-1] { color: red; }</style> == $0
</head>
▼<body>
  ▼<my-app _nghost-sfq-1>
    ▼<div _ngcontent-sfq-1>
      <h2 _ngcontent-sfq-1>Hello Angular2 (Release Candidate!)</h2>
    </div>
```



Коммуникация между компонентами

React

Components Props and Events

Angular

Components Props and Events

Services

Коммуникация между компонентами

React

Components Props and Events

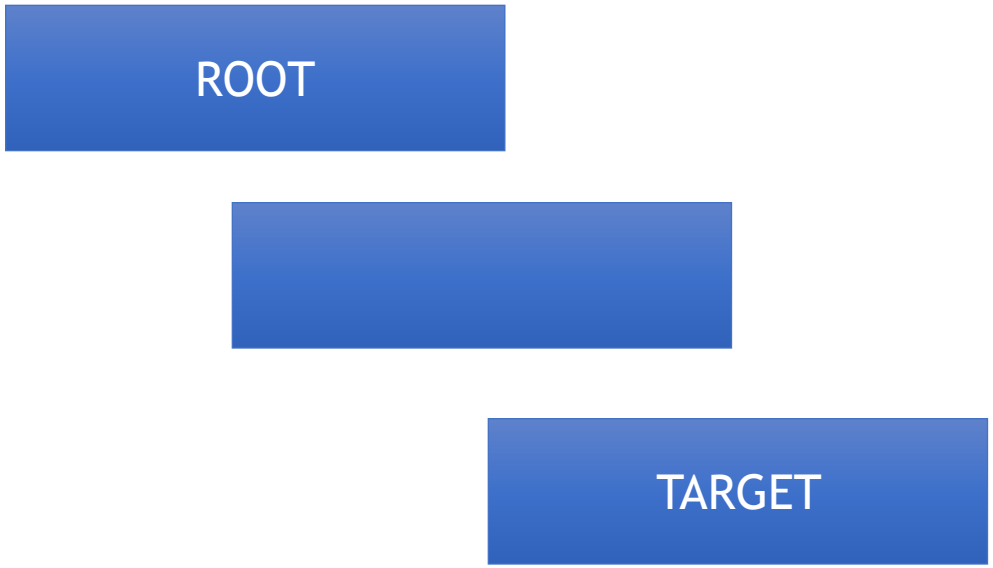
Angular

Components Props and Events

Services

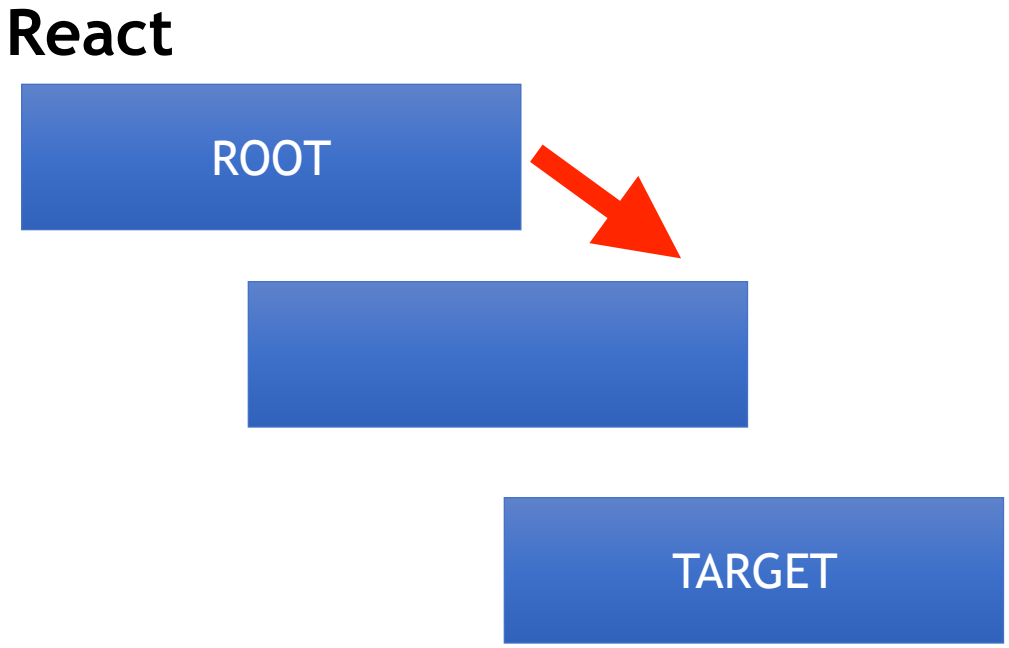
Коммуникация между компонентами

React



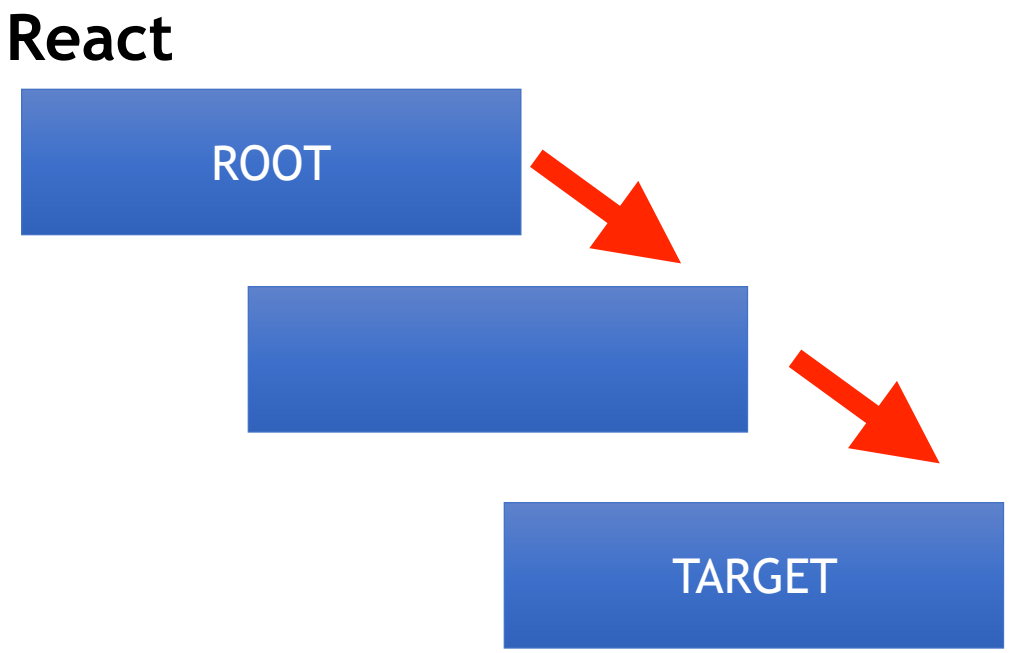
Components Props

Коммуникация между компонентами



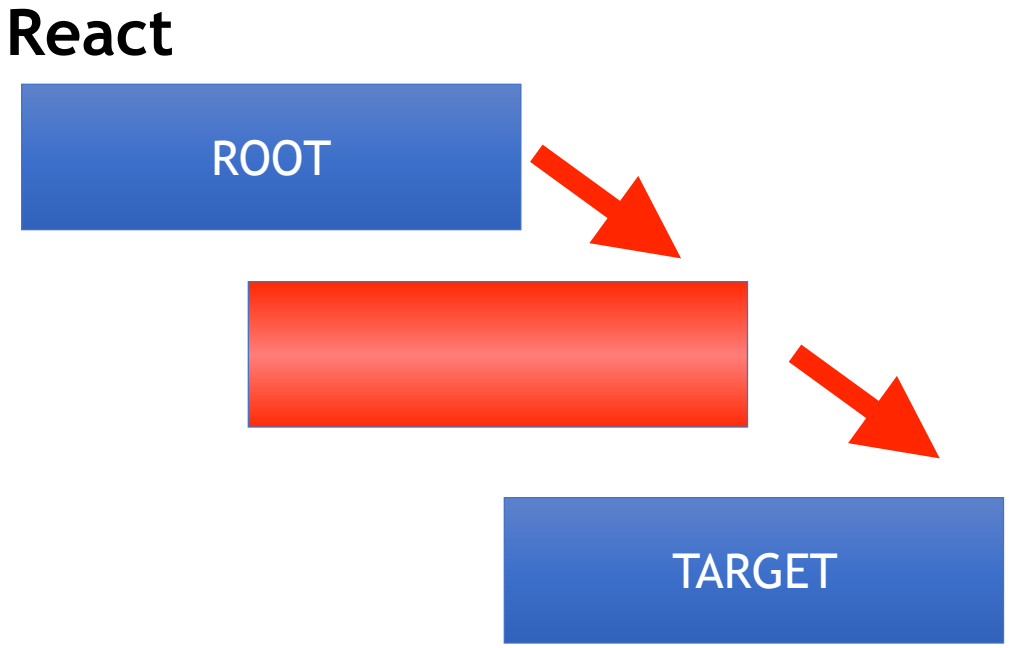
Components Props

Коммуникация между компонентами



Components Props

Коммуникация между компонентами

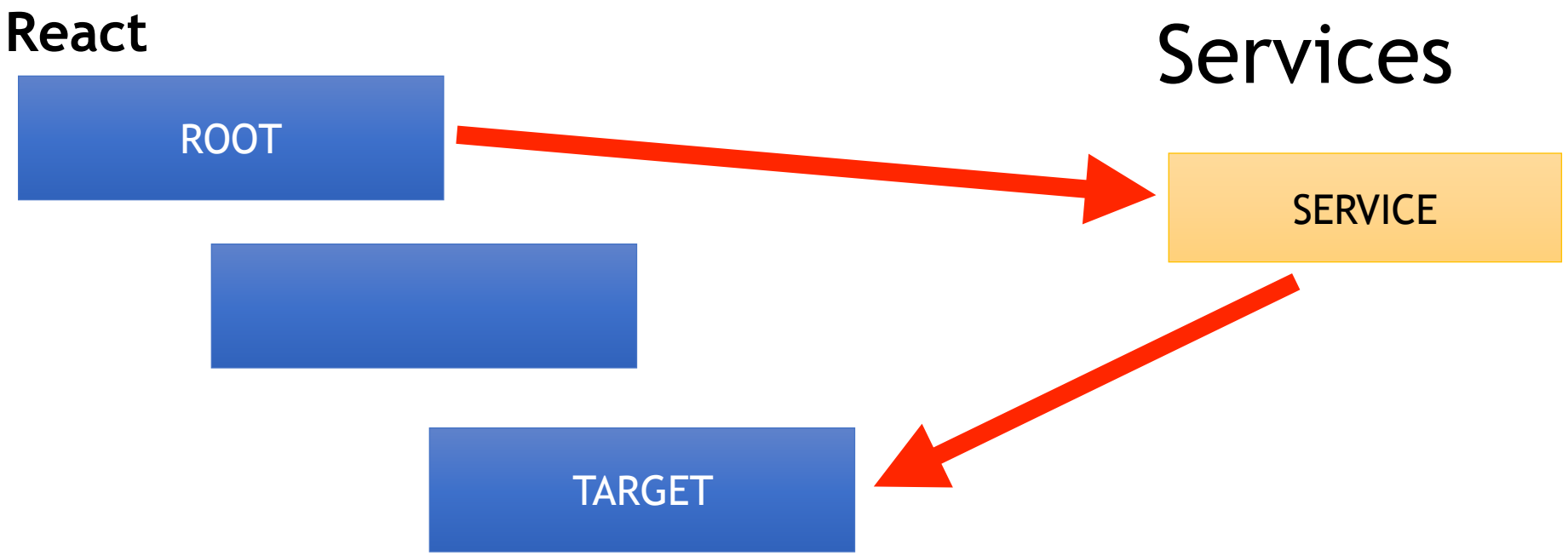


Components Props

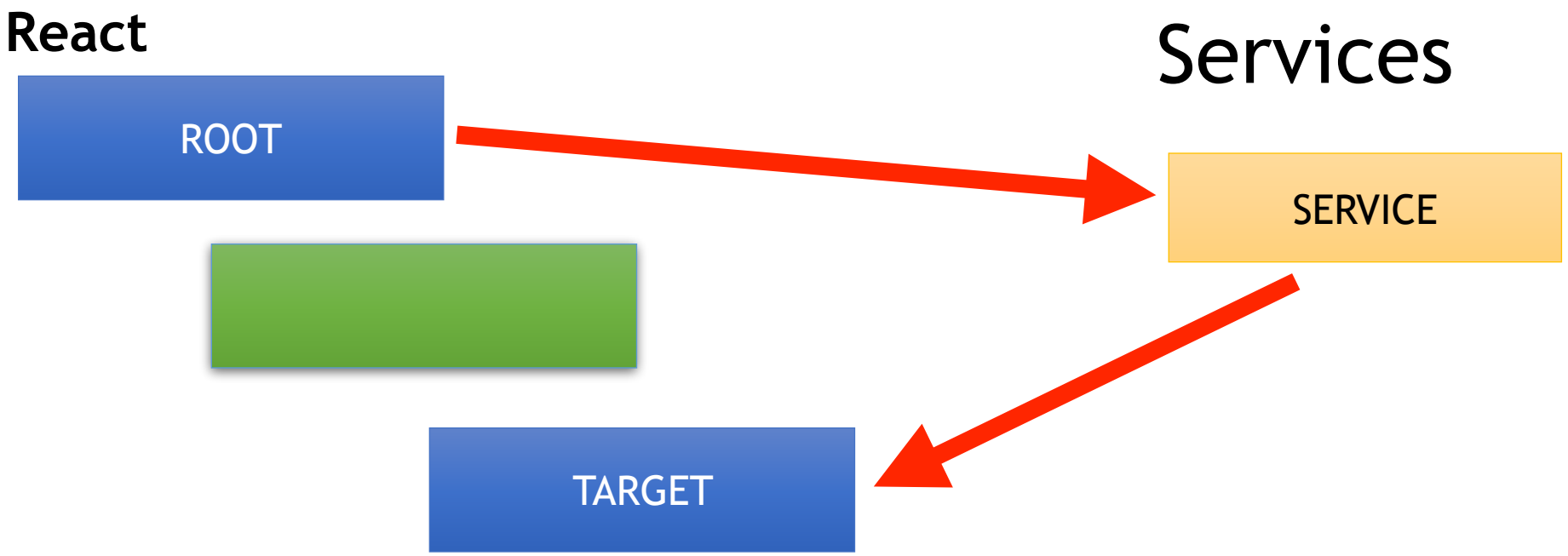
Коммуникация между компонентами

Коммуникация между компонентами

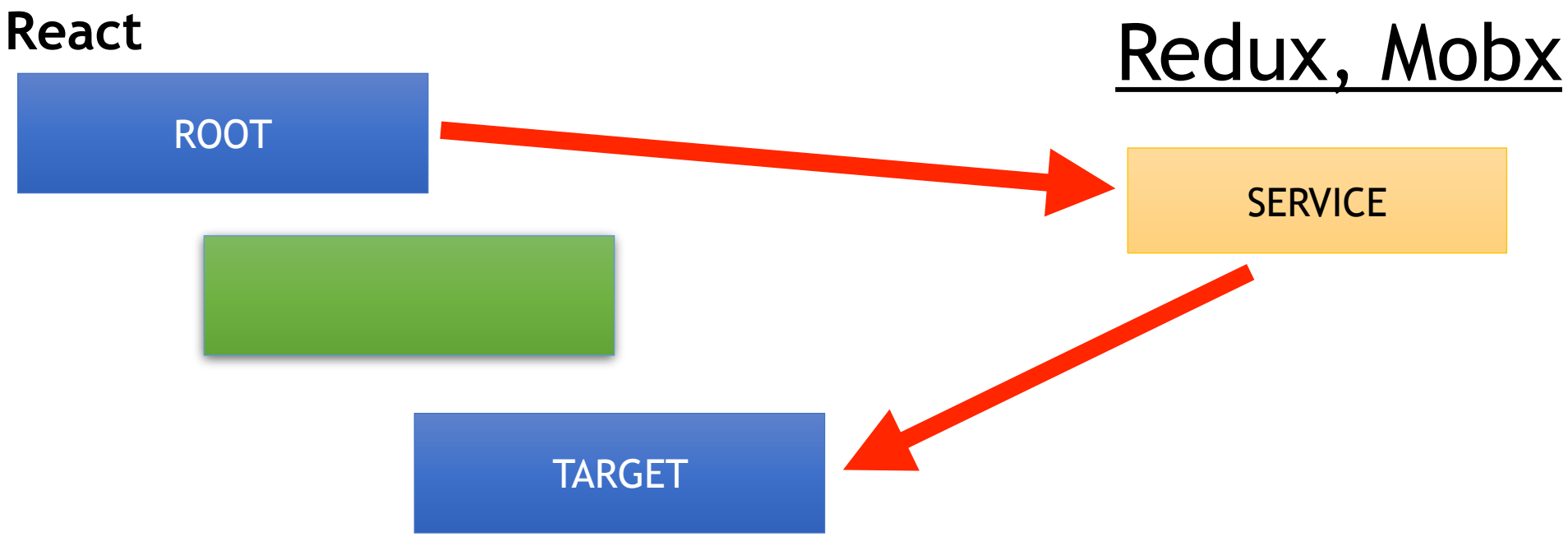
Коммуникация между компонентами



Коммуникация между компонентами



Коммуникация между компонентами



Speed - templates

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

@Component({
  moduleId: module.id,
  selector: 'project-name-app',
  template: `
    <h1>
      {{title}}
    </h1>
  `,
  styleUrls: ['project-name.component.css']
})
export class PROJECTNAMEAppComponent {
  title = 'project-name works!';
}
```

```
  new jit_StaticNodeDebugInfo0([],null,{}),
  new jit_StaticNodeDebugInfo0([],null,{})
]
;
var renderType_PROJECTNAMEAppComponent = null;
function _View_PROJECTNAMEAppComponent0(viewUtils,parentInjector,declarationEl) {
  var self = this;
  jit_DebugAppView1.call(this,
_View_PROJECTNAMEAppComponent0,renderType_PROJECTNAMEAppComponent,jit_ViewType_COMPONENT2,viewUtils,parentInjec
rationEl,jit_ChangeDetectionStrategy_CheckAlways3,nodeDebugInfos_PROJECTNAMEAppComponent0);
}
_View_PROJECTNAMEAppComponent0.prototype = Object.create(jit_DebugAppView1.prototype);
_View_PROJECTNAMEAppComponent0.prototype.createInternal = function(rootSelector) {
  var self = this;
  var parentRenderNode = self.renderer.createViewRoot(self.declarationAppElement.nativeElement);
  self._el_0 = self.renderer.createElement(parentRenderNode,'h1',self.debug(0,0,0));
  self._text_1 = self.renderer.createText(self._el_0,'',self.debug(1,0,4));
  self._text_2 = self.renderer.createText(parentRenderNode,'\n',self.debug(2,2,5));
  self._expr_0 = jit_uninitialized4;
  self.init([],[
    self._el_0,
    self._text_1,
    self._text_2
  ]
  ,[],[]);
  return null;
};
_View_PROJECTNAMEAppComponent0.prototype.detectChangesInternal = function(throwOnChange) {
  var self = this;
  self.detectContentChildrenChanges(throwOnChange);
  self.debug(1,0,4);
  var currVal_0 = jit_interpolate5(1,'\n  ',self.context.title,'\n');
```

```
  new jit_StaticNodeDebugInfo0([],null,{}),
  new jit_StaticNodeDebugInfo0([],null,{})
]
;
var renderType_PROJECTNAMEAppComponent = null;
function _View_PROJECTNAMEAppComponent0(viewUtils,parentInjector,declarationEl) {
  var self = this;
  jit_DebugAppView1.call(this,
_View_PROJECTNAMEAppComponent0,renderType_PROJECTNAMEAppComponent,jit_ViewType_COMPONENT2,viewUtils,parentInjec
rationEl,jit_ChangeDetectionStrategy_CheckAlways3,nodeDebugInfos_PROJECTNAMEAppComponent0);
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  self.debug(1,0,4);
  var currVal_0 = jit_interpolate5(1,'\n  ', self.context.title,'\n');
```

self.renderer.createElement

self.renderer.createText

Как построить DOM

Роман Дворнов

Speed immutability

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

@Pipe({ name: 'isOdd' })
export class IsOddPipe implements PipeTransform {
  transform(array:any[]) { return array.filter(item => item.isOdd); }
}

@Component({
  moduleId: module.id,
  selector: 'project-name-app',
  pipes: [IsOddPipe],
  template: `
    <button (click)="add()">add</button>
    <div>
      <div *ngFor="let item of list | isOdd">
        {{ item.name }}
      </div>
    </div>
  `,
  styleUrls: ['project-name.component.css']
})
export class PROJECTNAMEAppComponent {
  list = []
  add() {
       this.list.push({ name: 'test', isOdd: !!(this.list.length % 2)
    })
  }
}
```

Speed immutability

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import { Component, Pipe, PipeTransform } from '@angular/core';

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export class IsOddPipe implements PipeTransform {
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  selector: 'project-name-app',
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  template: `
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    <div>
      <div *ngFor="let item of list | isOdd">
        {{ item.name }}
      </div>
    </div>
  `,
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})
export class PROJECTNAMEAppComponent {
  list = []
  add() {
       this.list.push({ name: 'test', isOdd: !!(this.list.length % 2)
    })
  }
}
```

Speed immutability

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

@Pipe({ name: 'isOdd', is_pure: false })
export class IsOddPipe implements PipeTransform {
  transform(array:any[]) { return array.filter(item => item.isOdd); }
}

@Component({
  moduleId: module.id,
  selector: 'project-name-app',
  pipes: [IsOddPipe],
  template: `
    <button (click)="add()">add</button>
    <div>
      <div *ngFor="let item of list | isOdd">
        {{ item.name }}
      </div>
    </div>
  `,
  styleUrls: ['project-name.component.css']
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export class PROJECTNAMEAppComponent {
  list = []
  add() {
       this.list.push({ name: 'test', isOdd: !!(this.list.length % 2)
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  }
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```

Speed immutability

```
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@Pipe({ name: 'isOdd' })
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  pipes: [IsOddPipe],
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    <button (click)="add()">add</button>
    <div>
      <div *ngFor="let item of list | isOdd">
        {{ item.name }}
      </div>
    </div>
  `,
  styleUrls: ['project-name.component.css']
})
export class PROJECTNAMEAppComponent {
  list = []
  add() {
       this.list = this.list.splice().filter((i) => i % 2)
    })
  }
}
```

Speed - zone.js

```
Zone.fork().run(function () {
  zone.inTheZone = true;

  setTimeout(function () {
    console.log('in the zone: ' + !!zone.inTheZone);
  }, 0);
});

console.log('in the zone: ' + !!zone.inTheZone);
```

```
'in the zone: false'
'in the zone: true'
```

Speed - zone.js

```
Zone.fork().run(function () {
  zone.inTheZone = true;

  setTimeout(function () {
    console.log('in the zone: ' + !!zone.inTheZone);
  }, 0);
});

console.log('in the zone: ' + !!zone.inTheZone);
```

```
'in the zone: false'
'in the zone: true'
```

TypeScript OOP

```
class GenericService<T> {
    items: Array<T> = []

    addItem(item: T) {
        this.items.push(item)
    }
}

interface User {
    id: number,
    name: string
}

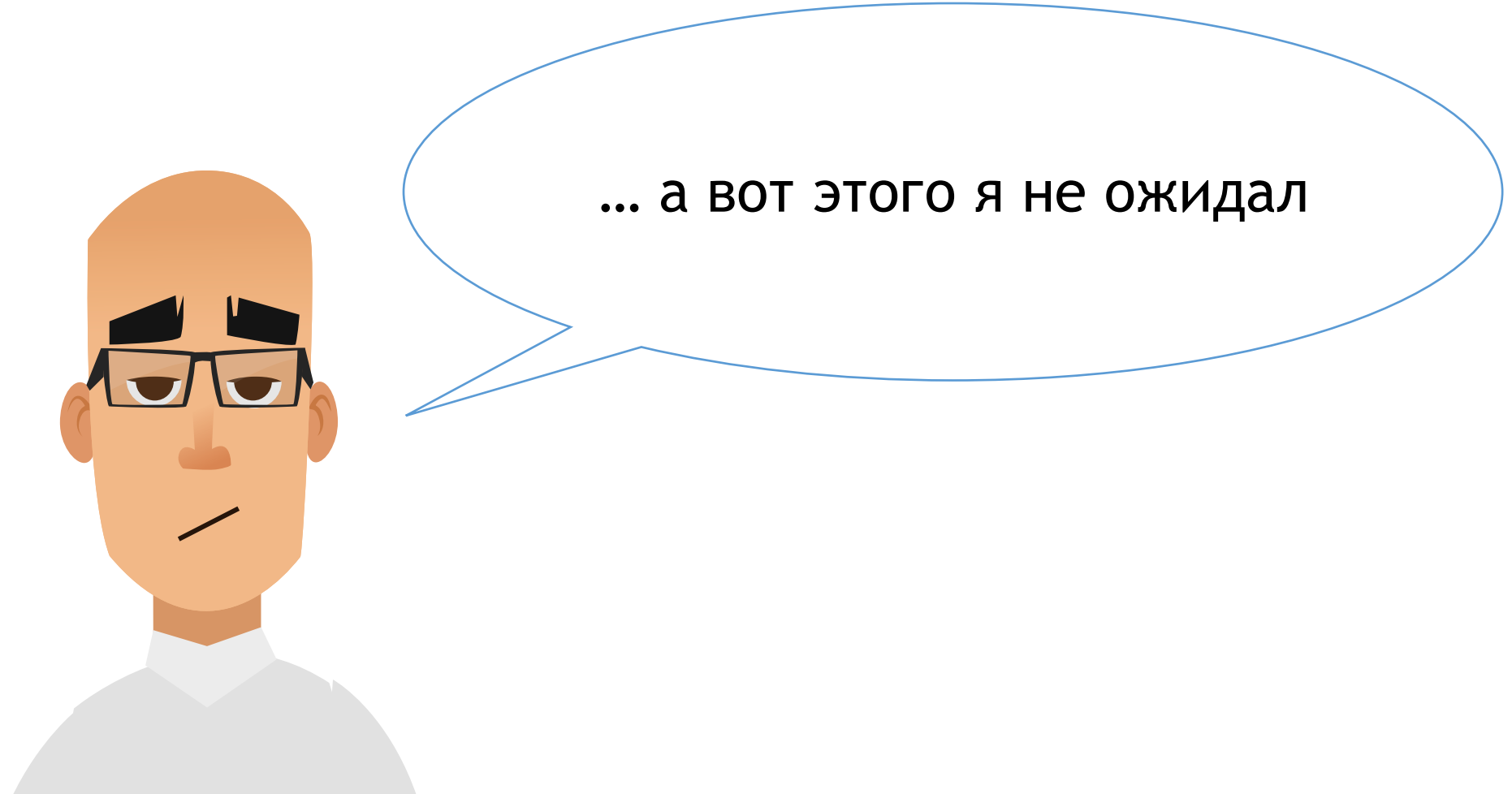
interface Creatives {
    type: string,
    value: string
}
```

TypeScript OOP

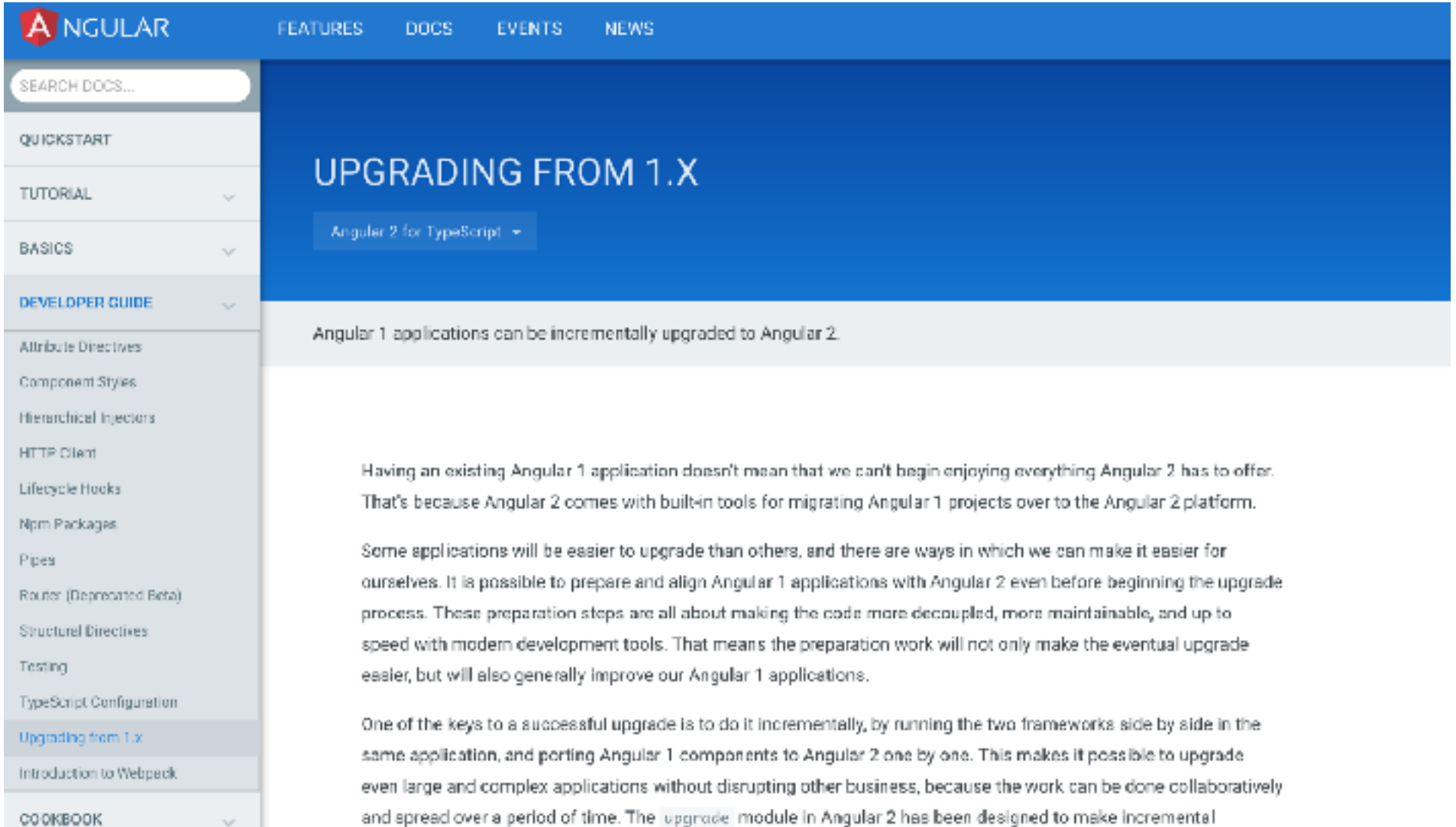
```
var s = new GenericService<User>();
s.addItem({
    id: 1, name: 'asda'
});

s.addItem({
    type: 'asda'   // will fail
})
```

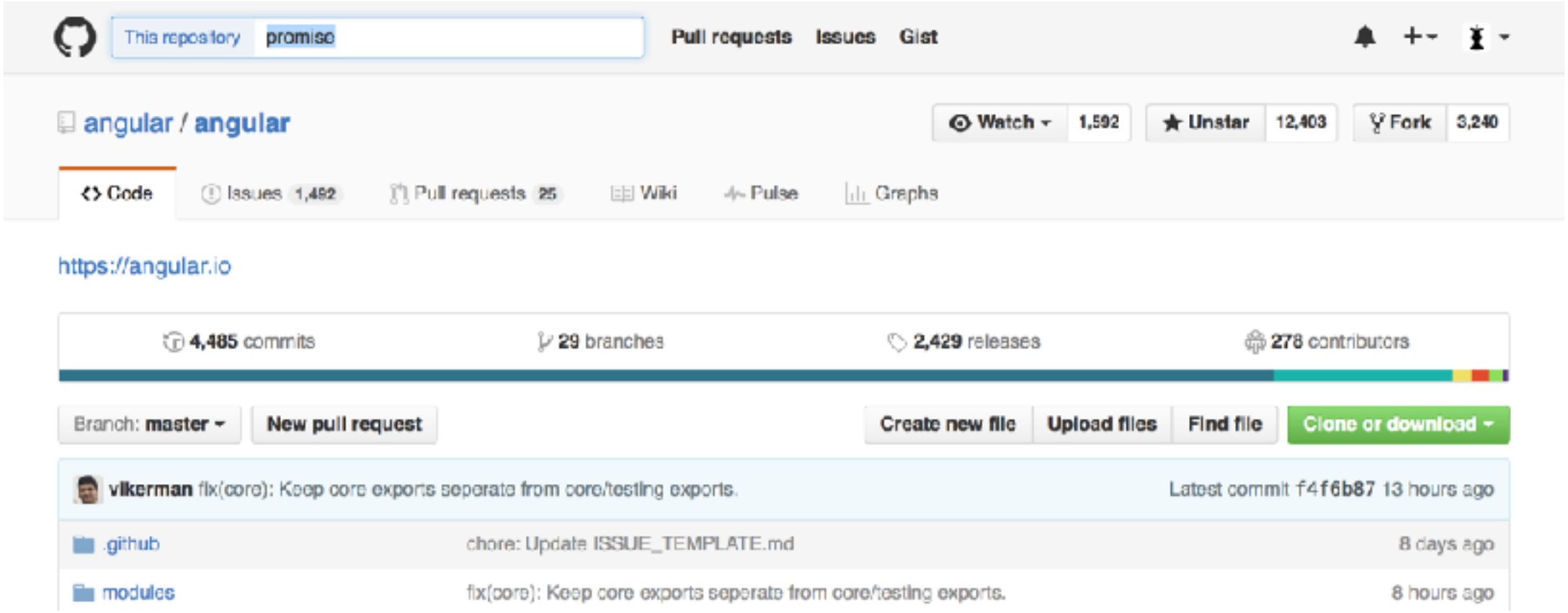
Глава №4 - Первые потери



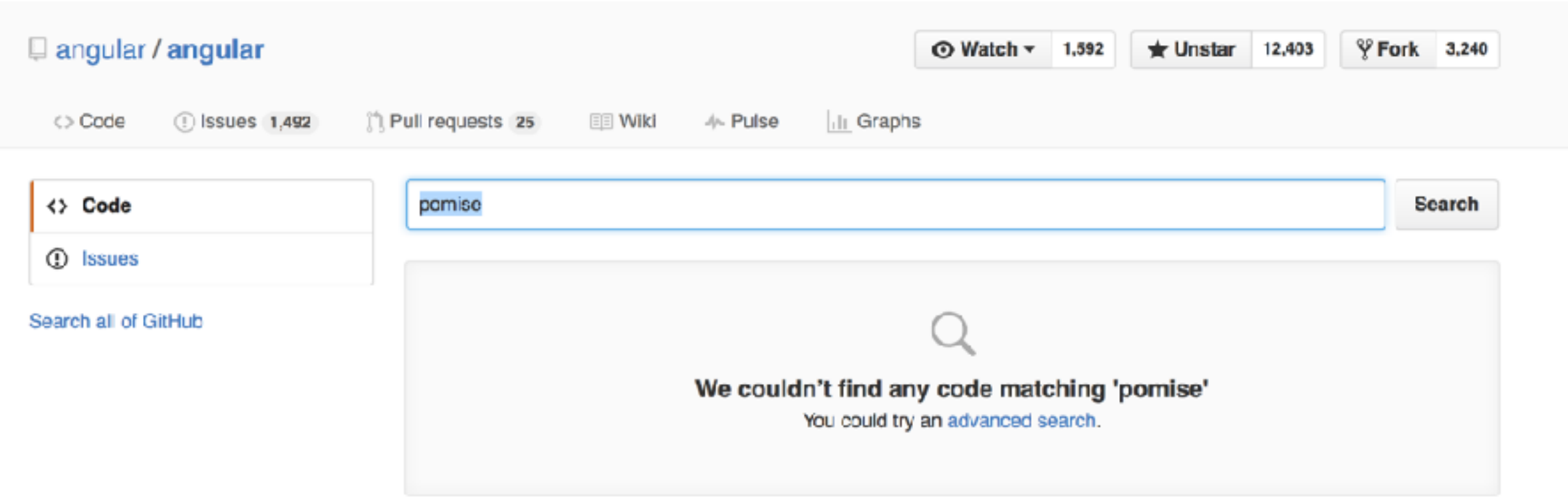
Потеря почти всей кодовой базы



Promise -> RXJS



Promise -> RXJS



Promise -> RXJS

```
import {Http, HTTP_PROVIDERS} from 'angular2/http';
@Component({
  selector: 'http-app',
  viewProviders: [HTTP_PROVIDERS],
  templateUrl: 'people.html'
})
class PeopleComponent {
  constructor(http: Http) {
    http.get('people.json')
      .map(res => res.json())
      .subscribe(people => this.people = people);
  }
}
```

Promise -> RXJS

```
import {Http, HTTP_PROVIDERS} from 'angular2/http';
@Component({
  selector: 'http-app',
  viewProviders: [HTTP_PROVIDERS],
  templateUrl: 'people.html'
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class PeopleComponent {
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      .map(res => res.json())
      .subscribe(people => this.people = people);
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}
```

Promise -> RXJS

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    http.get('people.json')
      .map(res => res.json())
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  }
}
```

RXJS

Expert to Expert: Brian Beckman and Erik Meijer - Inside the .NET Reactive Framework (Rx)

Опубликовано: июл 09, 2009 в 11:36

Автор: Charles

(24) | просмотров: 135,097 | комментариев: 57

Средний: 5

reddit | Твитнут | Like | 1

RXJS

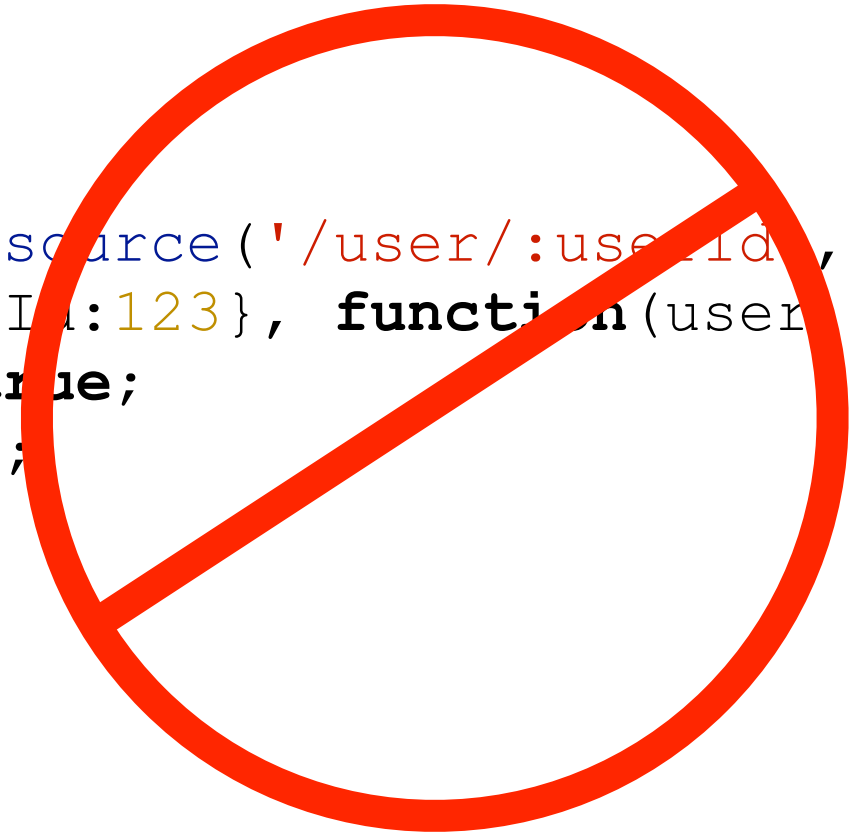
```
interface IObservable<T>
{
    IDisposable Subscribe(IObserver observer);
}

interface IObserver<T>
{
    void OnCompleted();
    void OnNext(T value);
    void OnError(Exception e);
}
```

ngResources

```
var User = $resource('/user/:userId', {userId:'@id'});
User.get({userId:123}, function(user) {
  user.abc = true;
  user.$save();
});
```

ngResources

```
var User = $resource('/user/:userId', {userId:'@id'});
User.get({userId:123}, function(user) {
  user.abc = true;
  user.$save();
});
```



Встроенные паттерны канули в небытие!

1) component
2) directive
3) filter
4) service
5) provider
6) constant
7) config
8) run
9) module

Встроенные паттерны канули в небытие!

1) component
2) template
3) directive
4) route
5) pipe
6) service *

Формы

1) [(ngModel)]

Формы

1) [(ngModel)]
2) ng-valid | ng-invalid | ng-dirty | ng-pristine | ng-touched | ng-untouched

Формы

1) [(ngModel)]
2) ng-valid | ng-invalid | ng-dirty | ng-pristine | ng-touched | ng-untouched
3) FormModel + FormBuilder

Формы

1) [(ngModel)]
2) ng-valid | ng-invalid | ng-dirty | ng-pristine | ng-touched | ng-untouched
3) FormModel + FormBuilder
4) Валидация не стала легче

Глава №5 - Happy End

Мы уже переехали на Angular 4?

HET

Почему?

1) Потому что Angular 1 не так уж и плох, а если задуматься …

Почему?

1) Кодовая база
2) Уровень вхождения
3) Незаконченность*

Почему?

1) Кодовая база
2) Уровень вхождения
3) Незаконченность*

Есть ли надежда?

Наши шаги

1) TypeScript OOP - e2e tests
2) Lebab.io
3) NgMetadata

О чем мы не поговорили?

Progressive Web Apps

Native

- Ionic Framework,
- NativeScript
- React Native.

Desktop

- Electron

Universal

- node.js,
- .NET,
- PHP

Dependency Injection

Angular CLI

IDEs

Testing

- patched Karma, Protractor

Animation

Accessibility

Developer Tools

- Redux (ngrx / ng2-redux)
- FLUX
- MV* (MVC, MVP, MVVM)
- MALEVICH (COD.js)

Спасибо за внимание!

Tweeter: #Ai_boy

Gitter: aiboy

http://bit.ly/1XP0dEh