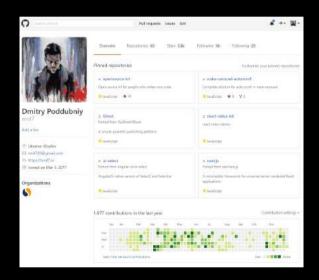
ANGULAR 2 TYPESCRIPT TPOTEMBI НА БОЛЬШИХ ПРОЕКТАХ.





DMITRY PODDUBNIY



1,097 CONTRIBUTIONS

REACT BASED PRESENTATION.

```
<Deck transition={['zoom','slide']} transitionDuration={800}>
 <Slide bgColor="primary">
    <Heading size={1} fit caps>
      React Presentations
    <Heading size={2} fit caps>
     Written In React
 </Slide>
 <Slide bgColor="black">
    <Heading size={1} fit textColor="primary" textFont="secondary">
     Wait What?
 </Slide>
 <Slide bgColor="primary" textColor="black" align="center top">
    <Heading size={1} textColor="black" textFont="primary">
      Thats right
      <ListItem>Inline style based theme system</ListItem>
      <ListItem>Autofit Text</ListItem>
      <ListItem>react-router navigation</ListItem>
      <ListItem>PDF Export</ListItem>
    </List>
 </Slide>
```

КАК ЖЕ МЫ РЕШИЛИСЬ НА ANGULAR 2

ХОТЯ ЕСТЬ REACT?

Peaкт это jQuery 2007?

- «и да и нет.»

ЧТО ЖЕ ДАЛ JQUERY КОГДА ПОЯВИЛСЯ:

- Удобство
- Скорость разработки
- Универсальность

МАГИЯ КОТОРАЯ ПОКОРИЛА НАС:

```
$(document).ready(function(){
    $(".input-prepend > label, .swTableFilters-search +").css("color", "red");

$(".input-prepend").click(function(){
    $(this).fadeOut("fast");
});

})
```

Angular 2, Поехали!

- «Так говорил Гагарин, а его все любят правда ?»

constructor

ngOnChanges

ngOnInit

ngDoCheck

ngAfterContentInit

ngAfterContentChecked

ngAfterViewInit

ngAfterViewChecked

ngOnDestroy

A component has a lifecycle managed by Angular.

Angular creates it, renders it, creates and renders its children, checks it when its data-bound properties change, and destroys it before removing it from the DOM.

Angular offers **lifecycle hooks** that provide visibility into these key life moments and the ability act when they occur.

A directive has the same set of lifecycle hooks, minus the hooks that are specific to componer content and views.

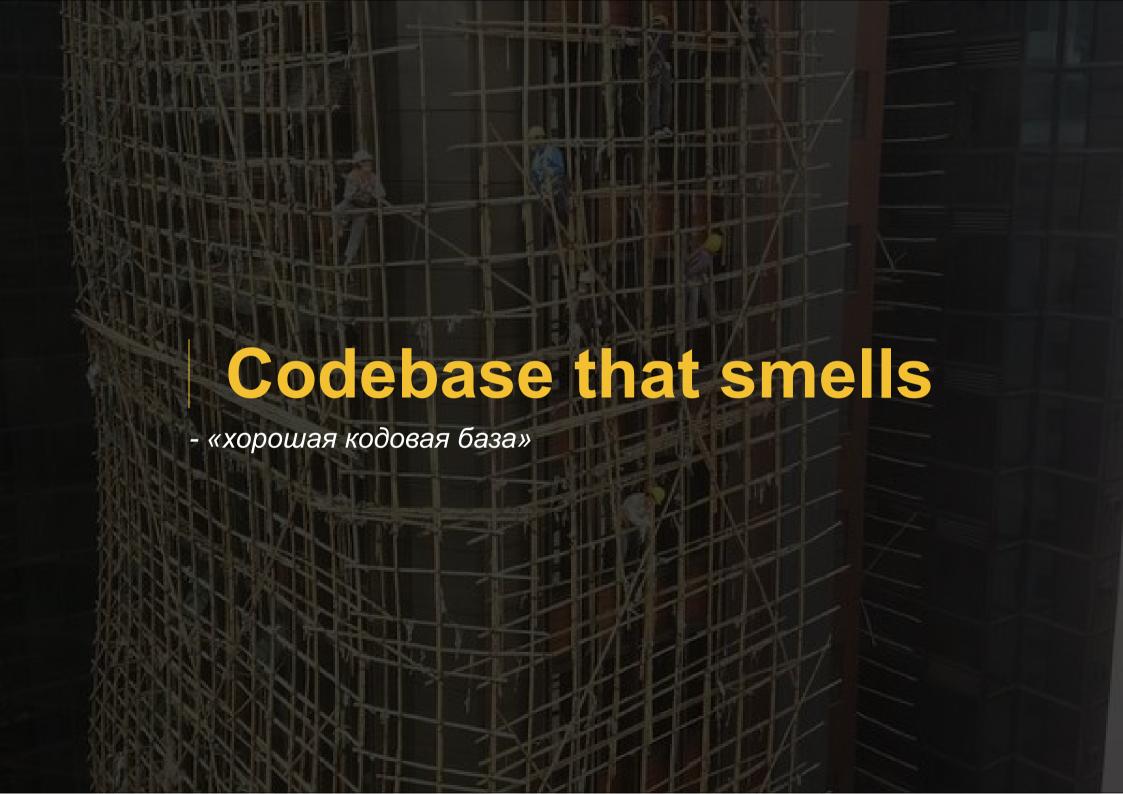
ANGULAR 2:

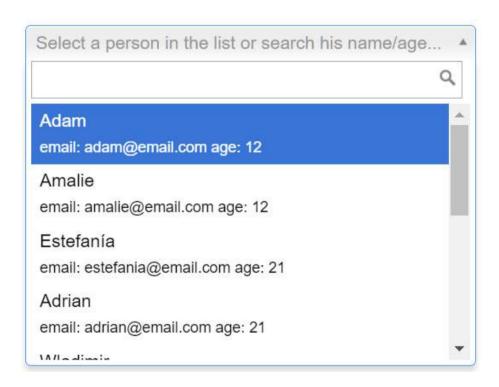
- Angular 1.x codebase
- Animations
- Universal
- Tests E2E
- Static Types
- C# ==* TypeScript

Keep it simple, stupid

- «делай это проще, дурачок»







Втроде обычный компонет!?

- «а вот и нет»

```
<!-- end ngRepeat: person in $select.items -->
 <!-- ngIf: $select.open -->
▶ role="option" ng-attr-id="ui-select-choices-row-
$select.generatedId }}-{{$index}}" class="ui-select-ch
ng-class="{'select2-highlighted': $select.isActive(thi
disabled: $select.isQisabled(this)}" ng-repeat="persc
ng-if="$select.open" ng-click=
"$select.select(person, $select.skipFocusser, $event)" i
choices-row-1-1">...
 <!-- end ngIf: $select.open -->
 <!-- end ngRepeat: person in $select.items -->
 <!-- ngIf: $select.open -->
▶ role="option" ng-attr-id="ui-select-choices-row-
$select.generatedId }}-{{$index}}" class="ui-select-ch
ng-class="{'select2-highlighted': $select.isActive(thi
disabled: $select.1sDisabled(this)} ng-repeat="perso
ng-if="$select.open" ng-click=
 "$select.select(person,$select.skipFocusser,$event)" i
choices-row-1-2">...
```

```
choices.attr('ng-repeat', parserResult.repeatExpression(groupByExp));

if (showWhen) choices.attr('ng-show', showWhen); // added for speed improvents on

// .attr('ng-if', '$select.open'); //Prevent unnecessary watches when drop
```



ЕЩЕ ТИПИЧНАЯ ПРОБЛЕМА?

```
// production ready code
// some where ..

$filter('i18n')(label) + (item.count ? ' (' + $filter('number')(item.count) + ')' : '');

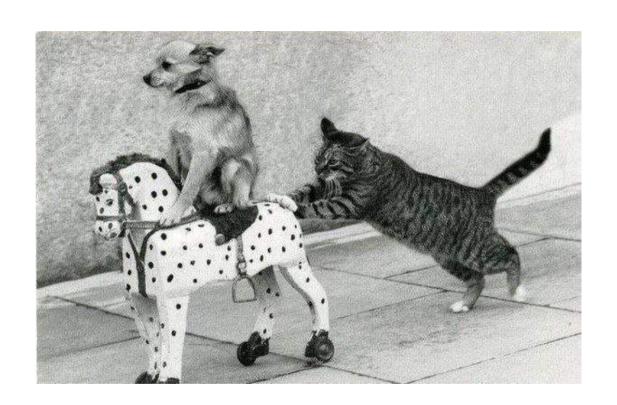
// other ready code
```



```
function findNestedItem(items, itemId) {
   var childResult = null;
   var returnedValue = _.find(items, function (item) {
      if (item.id == itemId) return true;
      else if (item.children && item.children.length) {
            childResult = findNestedItem(item.children, itemId);
            return !_.isEmpty(childResult);
      }
      else return false;
   });
   return childResult || returnedValue;
}
```

One component to rule them all!

- «Один компонент чтобы править ими всеми!»



Так ли просто на Angular 2

- « - нет.»

HE B REDUX'E ДЕЛО!

```
import { Component } from '@angular/core';
import { NgRedux, select } from '@angular-redux/store';
import { CounterActions } from '../actions/counter-actions';
import { RandomNumberService } from '../services/random-number';
@Component({
 selector: 'counter',
 providers: [ CounterActions, RandomNumberService ],
  template: `
   Clicked: {{ counter$ | async }} times
   <button (click)="actions.increment()">+</button>
   <button (click)="actions.decrement()">-</button>
   <button (click)="actions.incrementIfOdd()">Increment if odd</button>
   <button (click)="actions.incrementAsync(2222)">Increment async</button>
   <button (click)="actions.randomize()">Set to random number
  export class Counter {
 @select('counter') counter$: any;
 constructor(private actions: CounterActions) {}
```

```
@Component({
 selector: 'app-common-popup',
 templateUrl: './common-popup.component.html',
 styleUrls: ['./common-popup.component.scss']
export class CommonPopupComponent implements AfterViewInit {
 constructor(private sanitizer: DomSanitizer, private comPopupService: CommonPopupService) {}
 ngAfterViewInit(): void {
   this.comPopupService.pushData.subscribe( () => {
     const {title, content, footer, disabledSubmit } = this.comPopupService;
     this.content = this.sanitizer.bypassSecurityTrustHtml(content);
     this.footer = footer;
      this.disabledSubmit = disabledSubmit;
      this.showPopup = true;
```

```
import {Directive, HostListener, ElementRef} from '@angular/core';
import {window} from '@angular/platform-browser/src/facade/browser';

@Directive({
    selector: '[appCommonVerticalAlign]'
})
export class CommonVerticalSetWindowHeightDirective {

@HostListener('window:resize', ['$event'])
    onResize(event) {
      const result = event.target.innerHeight;
      this.elementRef.nativeElement.style.height = result + 'px';
    }

constructor( private elementRef: ElementRef) {
      this.elementRef.nativeElement.style.height = window.innerHeight + 'px';
    }
}
```

```
import { Directive, HostListener, ElementRef } from '@angular/core';
import { window } from '@angular/platform-browser/src/facade/browser';

@Directive({
    selector: '[appCommonVerticalAlign]'
})
    export class AdaptiveContainer {

    @HostListener('window:resize', ['$event'])
    @debounce(100)
    onResize(event: any) {
        const result = (event && event.target.innerHeight || 0);
        this.elementRef.nativeElement.style.height = `${result}px`;
    }

    constructor( private elementRef: ElementRef) {
        this.elementRef.nativeElement.style.height = (window.innerHeight && `${window.innerHeight}px`);
    }
}
```

```
import { Directive, HostListener, ElementRef } from '@angular/core';
import { window } from '@angular/platform-browser/src/facade/browser';
@Directive({
 selector: '[appCommonVerticalAlign]'
export class AdaptiveContainer {
 ngAfterViewInit(private ngzone: NgZone) {
   this.ngzone.runOutsideAngular( () => {
     Observable.fromEvent(window, 'resize')
        .throttleTime(200)
           const result = (event && event.target.innerHeight || 0);
           this.elementRef.nativeElement.style.height = `${result}px`;
 constructor( private elementRef: ElementRef) {
   this.elementRef.nativeElement.style.height = (window.innerHeight && `${window.innerHeight}px`);
```

Как выглядит

- разработка на Angular 2?

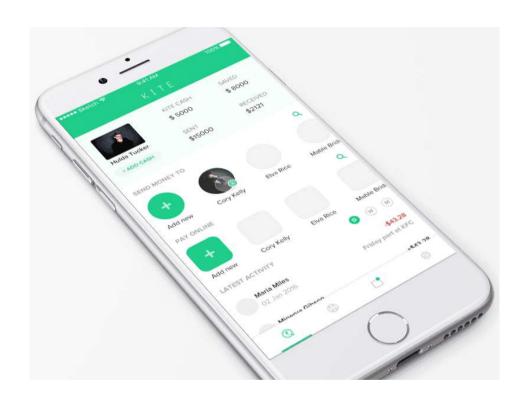


```
import { Component } from '@angular/core';
import { NgRedux, select } from '@angular-redux/store';
import { CounterActions } from '../actions/counter-actions';
import { RandomNumberService } from '../services/random-number';
@Component({
  selector: 'counter',
  providers: [ CounterActions, RandomNumberService ],
  template: `
   Clicked: {{ counter$ | async }} times
   <button (click)="actions.increment()">+</button>
   <button (click)="actions.decrement()">-</button>
   <button (click)="actions.incrementIfOdd()">Increment if odd</button>
   <button (click)="actions.incrementAsync(2222)">Increment async</button>
   <button (click)="actions.randomize()">Set to random number
  @select('counter') counter$: any;
 constructor(private actions: CounterActions) {}
```

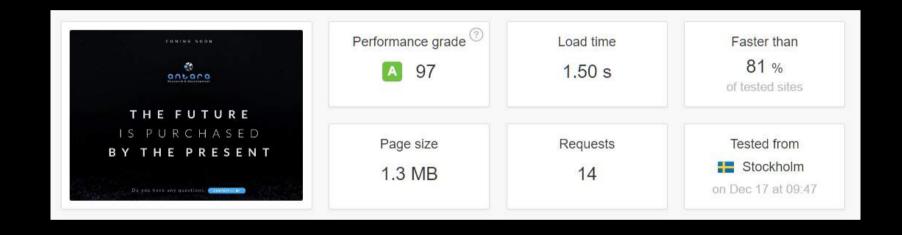
```
var __decorate = (this && this.__decorate) || function (decorators, target, key, desc) {
   var c = arguments.length, r = c < 3 ? target : desc === null ? desc = Object.getOwnPropertyDescriptor(target, key) : desc, d;</pre>
   if (typeof Reflect === "object" && typeof Reflect.decorate === "function") r = Reflect.decorate(decorators, target, key, desc
   else for (var i = decorators.length - 1; i >= 0; i--) if (d = decorators[i]) r = (c < 3 ? d(r) : c > 3 ? d(target, key, r) :
   return c > 3 && r && Object.defineProperty(target, key, r), r;
define(["require", "exports", "@angular/core", "@angular-redux/store", "../actions/counter-actions", "../services/random-number"
    "use strict";
   Object.defineProperty(exports, "__esModule", { value: true });
   var Counter = (function () {
        function Counter(actions) {
            this.actions = actions;
        return Counter;
   }());
   decorate([
        store 1.select('counter')
   ], Counter.prototype, "counter$", void 0);
   Counter = __decorate([
        core_1.Component({
            selector: 'counter',
           providers: [counter actions 1.CounterActions, random number 1.RandomNumberService],
           template: "\n \n Clicked: {{ counter$ | async }} times\n <button (click)=\"actions.increment()\">+</button)</pre>
   ], Counter);
   exports.Counter = Counter;
```

UI/UX become is more and more important

- «UI / UX становятся все более и более важным»

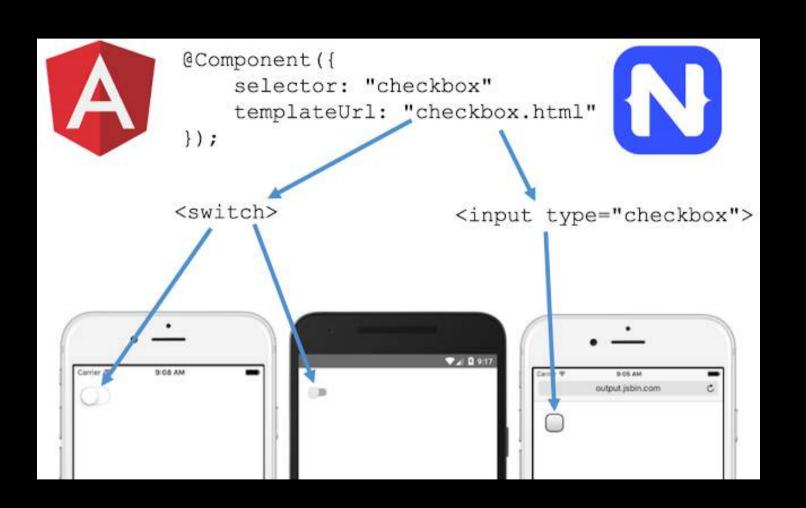


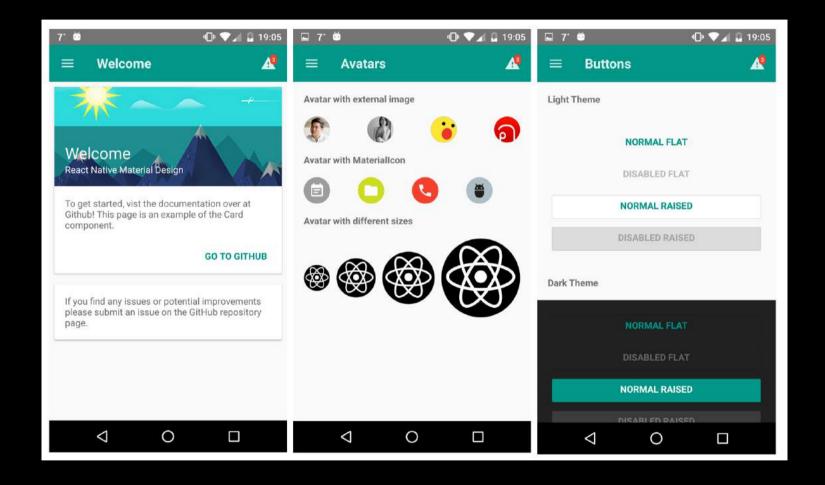
lam the faster man alive. - «The Flash»



FILE	SIZE 0.0s 0.3s 0.6s 0.9s 1.2s 1.5s
http://antarasoft.com/	21.5 kB
{ } bootstrap.min.css antarasoft.com/static/bootstrap/css/	20.8 kB
{ } app.css antarasoft.com/static/css/	3.4 kB
white-arrow.png antarasoft.com/static/images/	601 B
blue-arrow.png antarasoft.com/static/images/	707 B
logo.png antarasoft.com/static/images/	15.9 kB
commons.js antarasoft.com/_next/	6.6 kB
next.min.js cdn.zeit.co/next.js/1.2.3/	84.2 kB
coming-soon-bckg.png antarasoft.com/static/images/	536.1 kB
Lato-Regular.woff2 antarasoft.com/static/fonts/	178.8 kB
OpenSans-ExtraBold.woff antarasoft.com/static/fonts/	68.6 kB
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OpenSans-Regular.woff antarasoft.com/static/fonts/	62.6 kB
14 requests	1.3 MB 1.50 s

NATIVESCRIPT REACT NATIVE

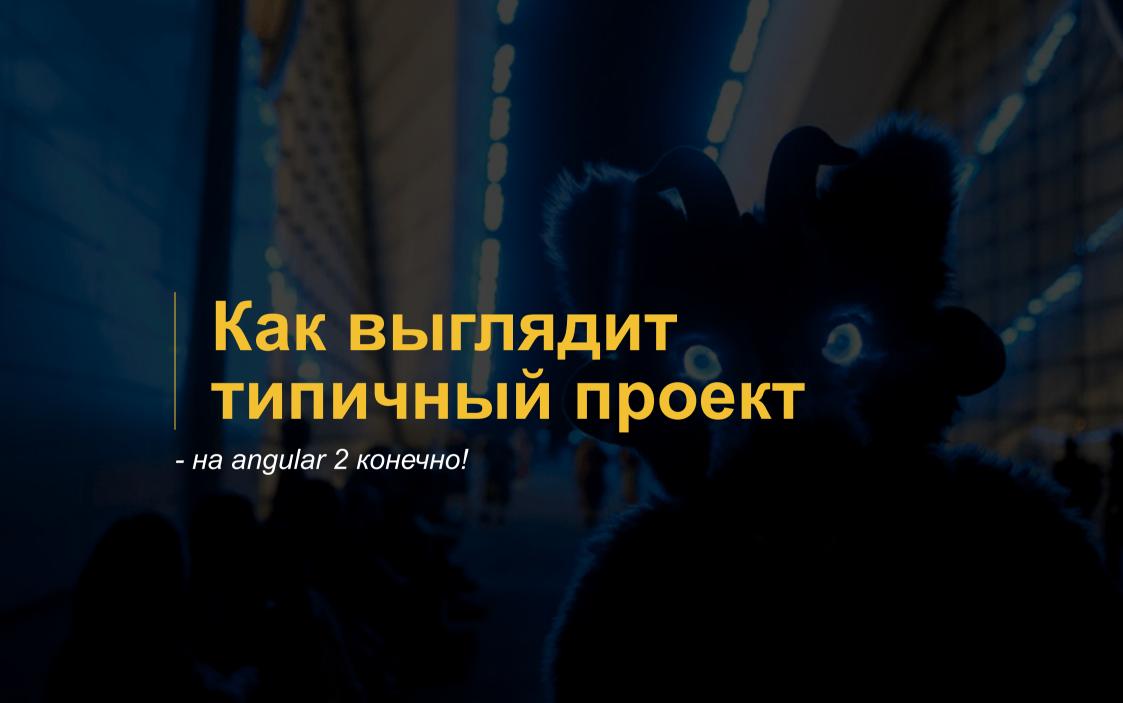






- «Современные техноглогии похожи на магию.»

- Следите за трендами, а не следуйте
- Изучайте больше
- Отдыхайте
- Курсы хороший способ начать
- KISS







Education Academy

Presentation on Github

https://github.com/mr47/itea-presentation-kiev

• Github @ mr47

https://github.com/mr47

УВИДИМСЯ В БУДУЩЕМ!

