

Angular 2

Better or worse?



Why Angular 2.0?

- Performance
- The Changing Web
- Mobile
- Ease of Use



Angular 2 Themes

- Simpler
- Flexible
- Productive developers
- Fast
- Consistent



Angular 2 – Data Binding

Angular 1

```
<component title="{{expression}}">
```

Angular 2

```
<component [title]="expression">
```

- Why?
 - Problems with src, disabled:

```
<component disabled="{{exp}}">
```

```
<component src="{{exp}}">
```

```
<component ng-disabled="exp">
```

```
<component ng-src="{{exp}}">
```

Angular 2 – Event Binding



- Expression
 - Driven by change detection

```
<component [prop]="user.name(current)">
```

- Statement
 - Driven by event

```
<component (event)="user.name(current)">
```

Angular - Reference

```
<button (click)="input.focus()">
```

```
<input #input type="text" />
```

Angular 1 ?= Angular 2

- Still in Angular 2
 - Dependency injection
 - Data binding
 - Directives
 - Router
 - Filters
 - Animation
 - Accessibility

- Still in Angular 2
 - i18n
 - Forms
 - Expressions
 - Material Design
 - Protractor
 - Karma
 - Mocks

Angular 2 is Based on:

- ES6/TypeScript
- Module Loaders
- DOM
- Web Components
- Observables
- ZoneJS
- AngularJS 1.x













ES6/TypeScript - Resources

- ES6 Feature overview
- Egghead ES6 videos
- Thoughtram dependency-injection-in-angular-2
- TypeScript Deep Dive
- Victor Savkin writing-angular-2-in-typescript
- TypeScript Tutorial

Components

Angular 1.x: http://plnkr.co/edit/fZKUdNpN3k2joBVrXz5r?p=preview

Angular 2.0: http://plnkr.co/edit/GA57df9esL17MyPbyXjb?p=preview

AngularJS 1.x Component: Best Practices

```
Clip slide
```

```
angular.module('myApp').directive('oldSchoolEippy',
        ['Sparse', 'Flog', function(Sparse, Slog) |
    return
        template:
        cdivo! 4
        "(strong ng-click="toggle()")Gid School Sippy(/strong)" +
        "(div ng-show"visible"){{content}}-(/div)' +
        "</div>
        restrict: 'E'.
        linis function(scope, element, attra) (
            fing.info("initializing ald school zippy.");
            attro. followers ('content', function (yalus) |
                scope.content = value)
            11:
            scope visible = true/
            acops, toggie - function() (
                noone, wieible = incope, visible;
1214
```

```
angular.module('myApp'), directive('newShinyE_ppy', tumotion ()
    zeturn (
        template:
      cdias
        catzong ng-click="ctrl.tmggla()">Niov Shiny Sippy</atrong>
        ediv ag-show="ctrl.visible">([ctrl.content)]</div>
      «/div»
        restrict: 'E'.
        controller: NewShinyDippy,
        controllerAs: 'ctrl',
        scope: [
            content: 'w:
        bindfoController: true
    17
117
class NewShinyTippy (
    static Sinject - ['Slog'];
    constructor ($log)
        Alog. Defo('initializing new shiny sippy.');
        this visible - true;
    topple() (
        this visible - [this visible;
```

Angular 1 to 2: Component

```
Clip slide
```

```
angular.modula('myApp').directive('mawdhinyZippy', function () (
    return [
        template:
      off two
        (strong mg-click='etrl.toggle()'>New Shiny Zippy(/strong)
        cdiv ng-show*'etsl.visible">((strl.content))c/div>
     c/div>
        restrict: "E",
        controller: HawdhinyZippy,
        controllerAs: 'otrl',
        scope: [
            content: '#'
        hindToController: true
131
class NewShinyZippy |
   static Sinject - ['$log'];
   constructor($log) (
        $log.info('initializing new shiny sippy.');
        this visible - true;
   hupple() (
        this visible = !this visibles
```

```
import (Component, View) from 'angular2/angular2';
import (Log) from 'log.ts';
0V[ew[[
    template:
    (div)
      (strong (click) ="toggle()">Angular 2 Lippy(/strong)
      cdiv [hidden]="!visible">[[content]]</div>
    C/div>
@Component((
    selector: 'mippy',
   properties: ['content']
export class lippy |
    visible: boolean;
    constructor(log: Log) (
        log.info('initializing sippy.');
        this visible - true;
    toggle() (
        this.visible = (this.visible)
```



Angular 1 Components Best Practices

Avoid

- \$scope
- \$scope
- \$scope
- The link function
- \$parse, \$observe, \$eval

Use

- Isolated Scope
- ControllerAs
- BindToController
- ES6 classes

Model with Component

```
import (Component) from 'angular2/core';
@Component({
    selector: 'app',
    template:
        i *ngFor="#contact of contacts"
                (click)="onSelect(contact)"
                [class.clicked]="showDetail === true"
            {{contact.firstName}} {{contact.lastName}}
        <input [(ngModel)]="selectedContact.firstName" type="text">
        <div>
            Phone Number: {{selectedContact.phone}}<br/>
br>
            E-Mail: {{selectedContact.enail}}
        </div>
    styleUrls: ["../src/css/app.css"]
export class AppComponent {
   public contacts = [
        {firstName: "Max", lastName: "Schwarzmüller", phone: "8137 1350 928", email:
 "info@mschwarzmueller.com"},
        {firstName: "Chris", lastName: "Raches", phone: "086768 23668", email: "test@test.com"},
        {firstName: "Michael", lastName: "Alloy", phone: "98089 17839 98", email: "michael@gmx.com"},
        {firstName: "Indira", lastName: "Galah", phone: "09980 1287 97", email: "indira@gmail.com"),
   public selectedContact = {};
    onSelect(contact) {
        this.selectedContact = contact;
```

Output



Indira

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Thanks