Angular 1 to Angular 2

7 Key Comparisons





Controllers to Components



```
<h3 ng-controller="StoryController">
  {{vm.story.name}}
</h3>
(function () {
 angular
    .module('app')
    .controller('StoryController', StoryController);
  function StoryController() {
   var vm = this;
   vm.story = { id: 100, name: 'The Force Awakens' };
})();
```

Angular 1 | Angular 2

```
<my-story></my-story>
import { Component } from 'angular2/core';
@Component({
  selector: 'my-story',
  template: '<h3>{{story.name}}</h3>'
})
export class StoryComponent {
  story = { id: 100, name: 'The Force Awakens' };
```



Bootstrapping Angular

Angular 1

```
<html ng-app="app">
```

```
import { bootstrap } from 'angular2/platform/browser';
import { AppComponent } from './app.component';
bootstrap(AppComponent);
```



Structural Built-In Directives

Angular 1

```
Angular 2
                    Structural
                     Directive
          <u1>
           {{vehicle.name}}
                                Local Variable
           <div *ngIf="vehicles.length">
           <h3>You have {{vehicles.length}} vehicles</h3>
          </div>
                    Structural
                    Directive
```

Structural Directives

Indicated by the * prefix

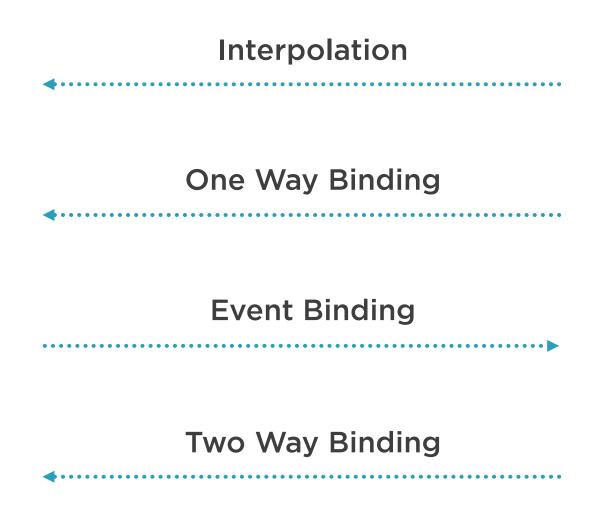
Changes the structure

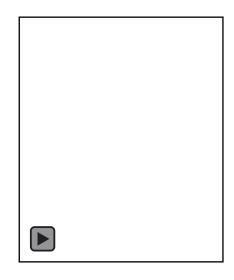


4

Data Binding

DOM





Component



Interpolation

Angular 1

```
<h3>{{vm.story.name}}</h3>
Context
```

```
<h3>{{story.name}}</h3>
```



1 Way Binding

Angular 1

```
<h3 ng-bind="vm.story.name"></h3>
```



Event Binding

Angular 1

```
<button
  ng-click="vm.log('click')"
  ng-blur="vm.log('blur')">OK</button>
```

```
<button
  (click)="log('click')"
  (blur)="log('blur')">OK</button>
```



2 Way Binding on an <INPUT>

Angular 1

```
<input ng-model="vm.story.name">
```

```
<input [(ngModel)]="story.name">
    Banana in a Box
    [()]
```



Removes the Need for Many Directives

Angular 1

```
<div ng-style=
  "vm.story ?
    {visibility: 'visible'}
    : {visibility: 'hidden'}">
  <img ng-src="{{vm.imagePath}}">
  <br/>br/>
  <a ng-href="{{vm.link}}">
    {{vm.story}}
  </a>
</div>
```

Angular 2 Template Concepts Remove 40+ Angular 1 Built-In Directives



No Longer Need These Directives Either

Angular 1

ng-click="saveVehicle(vehicle)"

ng-focus="log('focus')"

ng-blur="log('blur')"

ng-keyup="checkValue()"

Angular 2

(click)="saveVehicle(vehicle)"

(focus)="log('focus')"

(blur)="log('blur')"

(keyup)="checkValue()"



Services

Angular 1

Angular 2

Factories

Services

Providers

Constants

Values

Class



Creating Services

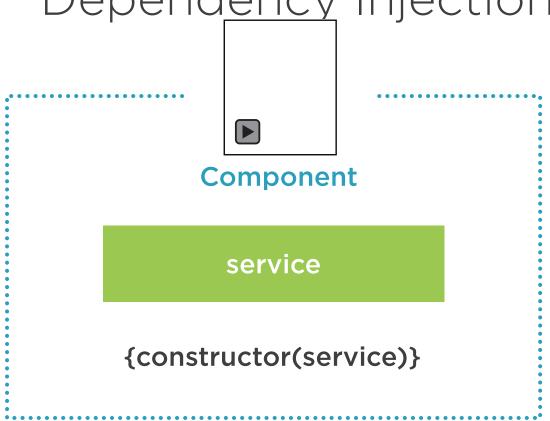
Angular 1

```
import {Injectable} from 'angular2/core';

@Injectable()
export class VehicleService {
  getVehicles = () => [
      { id: 1, name: 'X-Wing Fighter' },
      { id: 2, name: 'Tie Fighter' },
      { id: 3, name: 'Y-Wing Fighter' }
  ];
}
```



Dependency Injection





Registering Services with the Injector

Angular 2

Registration **Angular 1** angular .module('app') .service('VehicleService', VehicleService); function VehicleService() { this.getVehicles = function () { return [{ id: 1, name: 'X-Wing Fighter' }, { id: 2, name: 'Tie Fighter' }, { id: 3, name: 'Y-Wing Fighter' }

Registration

```
import { VehicleService } from ' /vehicle.service';

@Component({
    selector: 'my-vehicles',
    templateUrl: 'app/vehicles.component.html',
    providers: [VehicleService]
})

export class VehiclesComponent {
    constructor(
        private _vehicleService: VehicleService) { }
    vehicles = this._vehicleService.getVehicles();
}
```



Dependency Injection

Angular 1

```
angular
  .module('app')
  .controller('VehiclesController', VehiclesController);
VehiclesController.$inject = ['VehicleService'];
function VehiclesController(VehicleService) {
 var vm = this:
 vm.title = 'Services';
 vm.vehicles = VehicleService.getVehicles();
                      Injection
```

Angular 2

```
import { VehicleService } from './vehicle.service';

@Component({
    selector: 'my-vehicles',
    templateUrl: 'app/vehicles.component.html',
    providers: [VehicleService]
})

export class VehicleService]

private _vehicleService: VehicleService) { }

vehicles = this.__vehicleService.get_vehicles();
}
```

Injection





Removal of Many Directives

Components

Structural Directives

Bootstrapping

Services

Data Binding

Dependency Injection

Angular 1 to Angular 2

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