

# Angular 2 -First Steps in 10 Minutes

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[Slides at https://github.com/JerryKurata/CodeStarsAngular](https://github.com/JerryKurata/CodeStarsAngular)

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# What's New in Angular 2

- Performance Increase
  - As fast as raw javascript
- Mobile Support
- Adds ES6 support
  - Classes
  - Types
  - Addition development support
- Web Components
- Increase Modularity to support more complex applications

# Changes from Angular 1.x

- Covered Here
  - Syntax changes
  - Switch from controller/html to Component / Template
    - Only 1 example
- Not Covered Here
  - New Router ???
  - Focus on ES6 / ES2015
    - Not a lot of browsers supporting today.
    - Using Transpiling of TypeScript to ES5 javascript

# A short example

*Index.html – Angular 1.x*

```
<html>
  <head>
    <script src="angular-1.x.js"></script>
  </head>
  <body>
    <ng-include src="'movieListView.html'">
    </ng-include>
  </body>
</html>
```

Angular 1.x Library

Include .html

# A short example

*Index.html – Angular 2*

```
<html>
  <head>
    <script src="angular-2-alpha-01.js"></script>
  </head>
  <body>
    <movieList></movieList>
  </body>
</html>
```

Angular 2 Library

Component

# Angular 2 Component

```
function MovListComp(dataSrv) {  
  this.movies = dataSrv.getMovies(); }  

```

Component name is MovListComp  
dataSrv is passed in data service

```
MovListComp.annotations = [  
  new angular.ComponentAnnotation({  
    selector: "movieList",  
    appInjector: [dataSrv] }),  
  new angular.ViewAnnotation ( {  
    template: "<div> ..... </div>",  
    directives: [angular.NgFor] })  
];
```

HTML name to reference component is  
"movieList", dataSrv injected

HTML template – content  
on next slide, uses ng-For

```
MovListComp.parameters = [[MyDataService]];
```

Injection of Service. EXPECT THIS TO  
CHANGE

```
document.addEventListener("DOMContentLoaded",  
  function() { angular.bootstrap(MovListComp) })
```

Component bootstrapped on DOM load

# Component Template Details

```
<div>
  <ul>
    <li *ng-for="#movie of movies">
      {{ movie.name }}
      {{ movie.director }}
    </li>
  </ul>
</div>
```

\*ng-for – create li element for each

#movie – local variable for a movie

{{ }} replaced by value of movie.property

# Input

```
<div>
```

```
  <input #movieName>
```

```
  <button (click)="addMovie(movieName.value)">
```

Add

```
  </button>
```

```
</div>
```

#movieName – local variable

(click) – event

movieName.value – why .value?

movieName – js input element



# Planning the path forward

- Use Angular 1.x for now
  - Read John Papa's guide
    - <https://github.com/johnpapa/angular-styleguide>
- Read up on Angular 2
  - Angular.io
  - Alpha/Developer Preview - now, in flux
  - Beta – Early 2016 (?)
- Learn TypeScript
  - Typescript – benefit of ES6 + more now
    - Runs on ES5 browsers (Not many browser support ES6 today)
- Future Tool help
  - Angular 2 container for Angular 1 code – Planned?
  - Angular 2 components in Angular 1 app – Planned?

# Resources

- [www.angular.io](http://www.angular.io) – angular 2
- <https://github.com/johnpapa/angular-styleguide>