Angular 2 Primer

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Slides at 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
- Increase Modularity to support more complex applications
- Much more

Changes from Angular 1.x

- Covered
  - Syntax changes
  - Switch from controller/html to Component / View
    - Only 1 example
- Not Covered
  - New Router ???
  - Focus on ES6
    - Not a lot of browser support
    - 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>
```

A short example

Index.html – Angular 2

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

Angular 2 Library

Component

Angular 2 Component

```
var appComp = ng
  .Component( {
    selector: "movieList"  } )
  .View({
    template:  "<div>  …….  </div>" })
  .Class({
    constructor: function() {
      this.movies = dataSrv.getMovies();
      })
];
```

HTML name to reference component

HTML template – full content on next slide

Component constructor

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 (?)
- Future Tool help
  - Angular 2 container for Angular 1 code
  - Typescript – benefit of ES6 + more now
    - Runs on ES5 browsers (Not many browser support ES6 today)

Resources

- www.angular.io – angular 2
- https://github.com/johnpapa/angular-styleguide