

MVC is
Cool



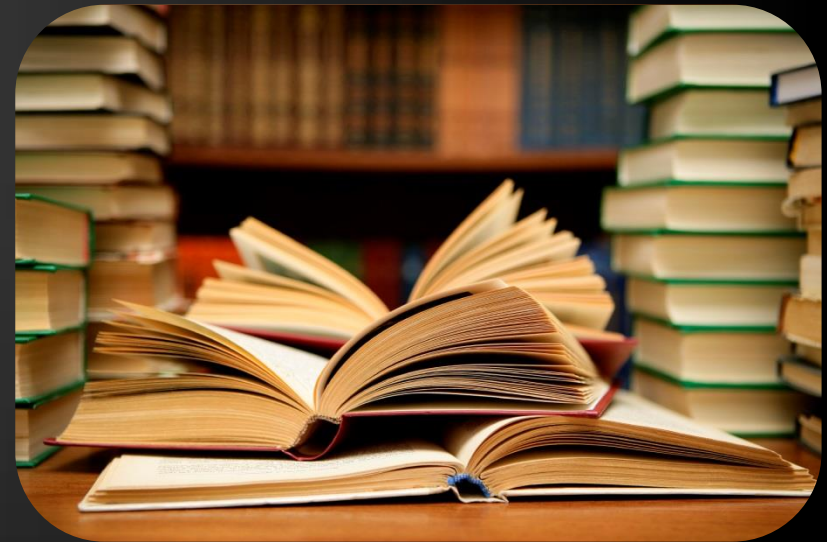
Services

Angular Basics

Telerik Software Academy
Learning & Development Team
<http://academy.telerik.com>



- ◆ What is a service
- ◆ Why using services
- ◆ Custom services
- ◆ Built-in services



What Is a Service



- ◆ In Angular service is
 - ◆ A worker object
 - ◆ Easier use of different aspects of the app
 - ◆ Over-the-Wire or not
 - ◆ Often stateless



Why Using Services



Customer service

Excellent	<input checked="" type="checkbox"/>
Poor	<input type="checkbox"/>

Why Using Services

- ◆ Services are:
 - ◆ Reusable
 - ◆ "SOLID"
 - ◆ Dependency Injection
 - ◆ Testable



SOLID

Software Development is not a Jenga game

Custom Services



- ◆ Three types
 - ◆ Factory – the returned value
 - ◆ Service – returns instance of the function
 - ◆ Provider – can be configured

```
module.service('serviceName', function (args) {  
    // implement service  
});
```

```
module.provider('providerName', function (args) {  
    // implement service  
});
```



```
module.factory('serviceName', function (services){  
    // implement service  
});
```

◆ Inject it in a controller

```
myApp.controller('Ctrl',  
    function Ctrl($scope, serviceName) {  
        // use service  
    }  
);
```

Built-in Services



◆ Built-in Services

`$http` – AJAX request

`$resource` – AJAX with restfull services

`$q` – Promise library

`$anchorScroll` – Scrolls to element

`$cacheFactory` – cache service (key-value pair)

`$compile` – compiles element with directives

`$parse` – parses expressions

`$locale` – localization of dates, numbers

`$timeout` – timeout with compiling

`$exceptionHandler` – handling exceptions

`$filter` – access to filter functions

`$cookieStore` – cookie sessions usage

◆ Other Built-in Services

`$interpolate` - modifies the {{ template

`$log` - logs into the console

`$rootScope` - the "base" scope (avoid using it)

`$window` - the window

`$document` - the document DOM element

`$rootElement` - the root of the app

`$route` - for routes

`$routeParams` - retrieve route parameters

`$location` - parses the URL

`$httpBackend` - fake HTTP (for testing)

`$controller` - instantiates controllers

- ◆ Angular services
- ◆ Custom services
- ◆ Built-in services

Questions?

