AngularJS Services

Jim Cooper @jimthecoop



What is a Service?

The Term Service Is Overloaded

A Worker Object

Not Necessarily Over-the-Wire

Often Stateless

Built-In and Custom Services

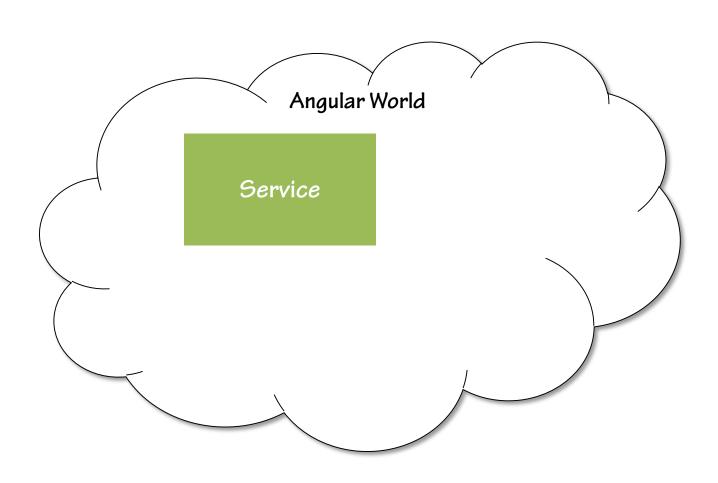
Built-In Services

Custom Services

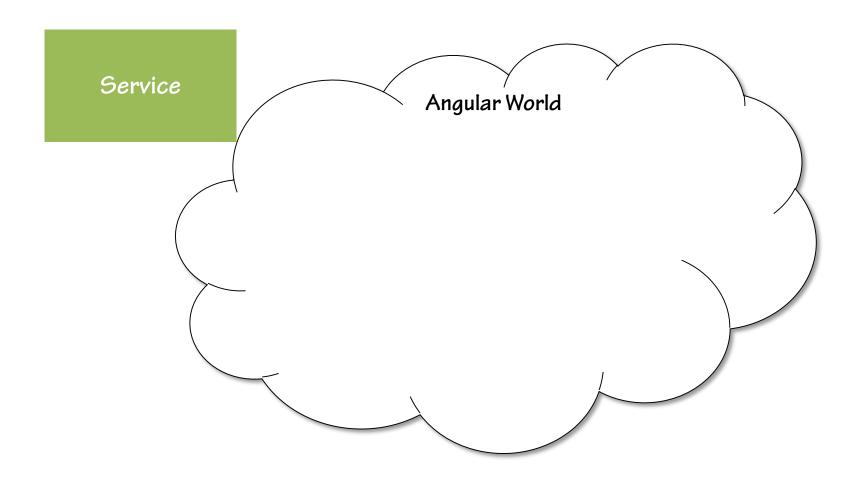
Why Use Services?

Reusable **SRP Dependency Injection Testable** http://en.wikipedia.org/wiki/SOLID_(object-oriented_design)

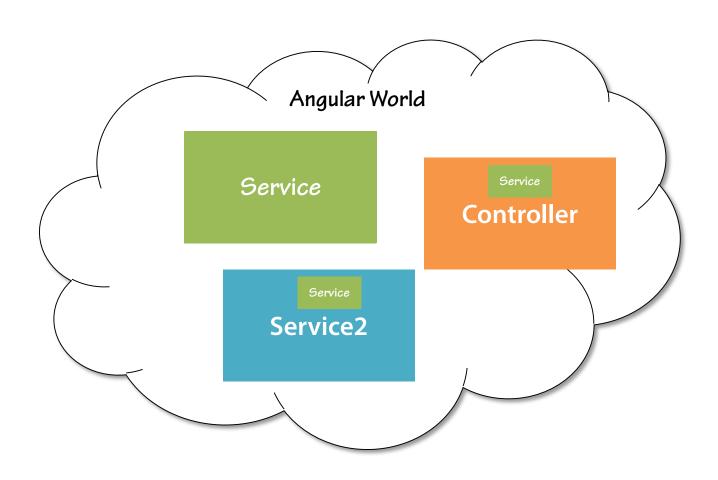
What is an AngularJS Service?



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What is an AngularJS Service?



True or False: In Angular, the term "Service" refers to an over-the-network service like a restful web service.

False

Why do we need services?

Reusable, SRP, Testability (Due to DI)

How is an Angular service different than any other service?

It is registered with Angular so that Angular can inject it

Services

Custom Services

Built-In Services

Built-In Services

\$http

\$resource

- \$q

\$anchorScroll

\$cacheFactory

\$compile

\$parse

\$locale

\$timeout

\$exceptionHandler

\$filter

\$cookieStore

\$interpolate

\$log

\$rootScope

\$window

\$document

\$rootElement

\$route

\$routeParams

\$location

\$httpBackend

\$controller

Which would be the best fit for accessing a restful web service: \$http or \$resource?

\$resource

Is it possible to bind to promises returned by \$q?

No, not since the release of AngularJS 1.2

In which module does \$resource reside?

ngResource

Which service would you use to display localization based date-time or numeric formats?

\$locale

Why would you use \$timeout vs. setTimeout?

Angular is aware of model changes made by \$timeout

Which service does Angular use internally to process a page and handle directives on the page?

\$compile

Built-In Services

- \$http
- \$resource
- \$q
- \$anchorScroll
- \$cacheFactory
- \$compile
- \$parse
- \$locale
- \$timeout
- \$exceptionHandler
- \$filter

\$interpolate

\$log

\$rootScope

\$window

\$document

\$rootElement

\$route

\$routeParams

\$location

\$httpBackend

\$controller

\$interpolate

Used internally by \$compile

```
module.config(function($interpolateProvider) {
        $interpolateProvider
        .startSymbol('[[').endSymbol(']]');
});
```

\$log

Used for diagnostic logging

```
$log.log("Log some info");
$log.info("Here's some information");
$log.warn("Danger, Will Robinson!");
$log.error("Error");
```

\$rootScope

One per App

Prototypal Inheritance

Injectable

Avoid as a Best Practice

DOM Services

- \$window
- \$document
- \$rootElement

Which service would you modify if you want to change the {{ }} expression delimeters?

\$interpolateProvider

How many root scopes are there in an application?

Just One

Can child scopes access items on the root scope?

Yes, due to prototypal inheritance

Exercises

- 1. Update the save method of the eventData service to lookup next eventId by finding the highest event id of all existing events and incrementing by one (instead of just setting it to 999).
- Wire up the Save button on the EditProfile page to save the user using a new service called userData. Use a \$resource and save them to the url: '/data/user/:userName'
- 3. Store the user's session-upvotes in a cookie and only allow the user to upvote each session once.
- 4. Or, for a more advanced challenge, allow users to log in after storing their user profile and when they upvote, track their upvotes in their user profile object.