

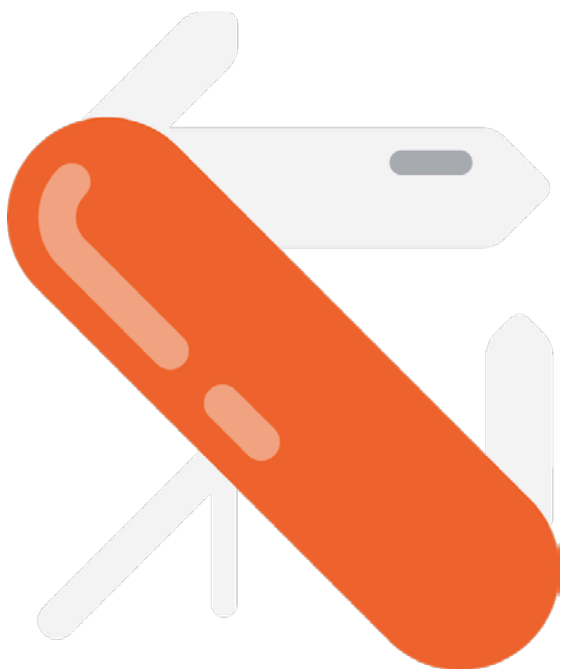
Common Built-In Services



Brice Wilson

@brice_wilson | www.BriceWilson.net


Overview



Promises and the \$q service

Angular routing

Using \$cookies, \$cookieStore and \$log



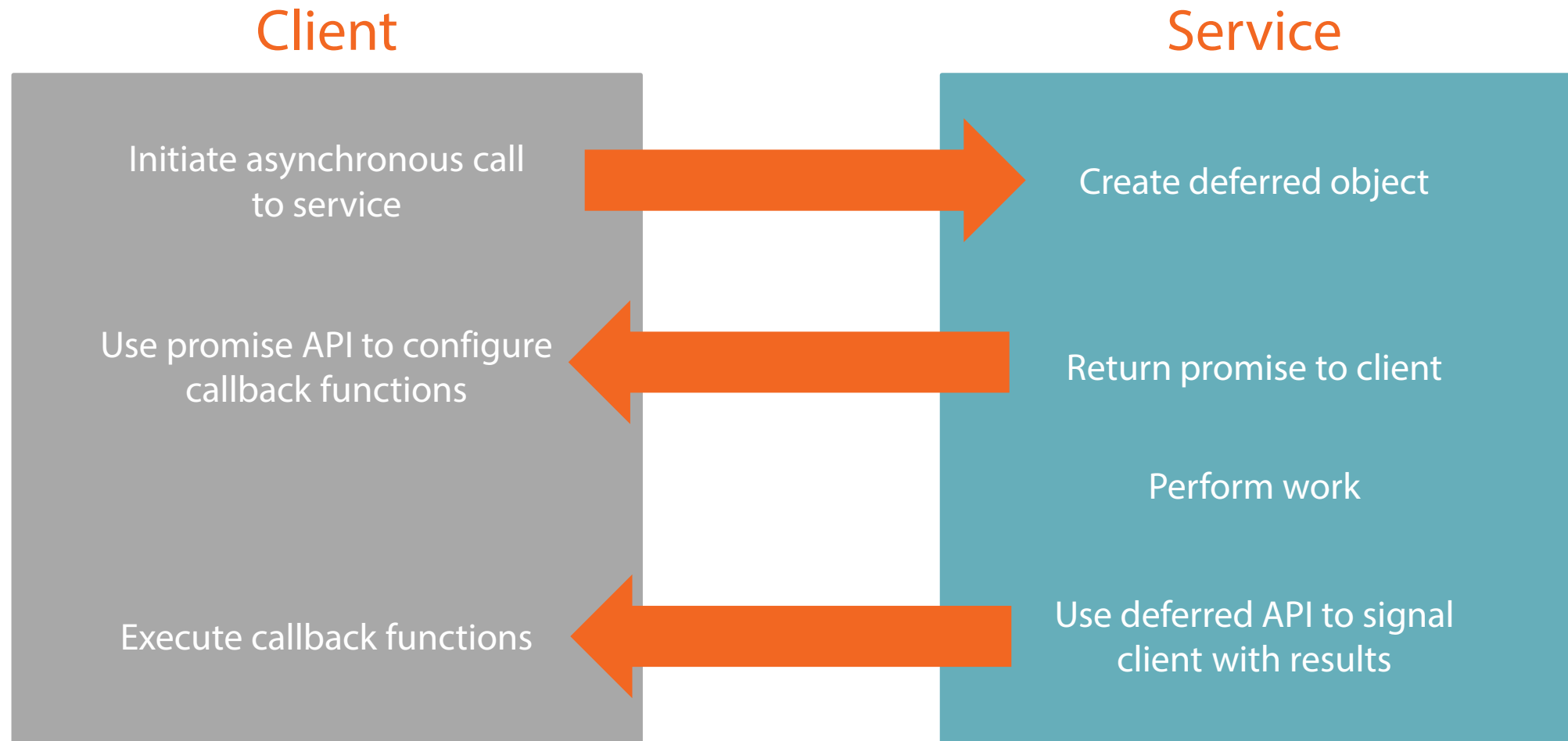
In Javascript, promises are objects which represent the pending result of an asynchronous operation.

— Martin Fowler

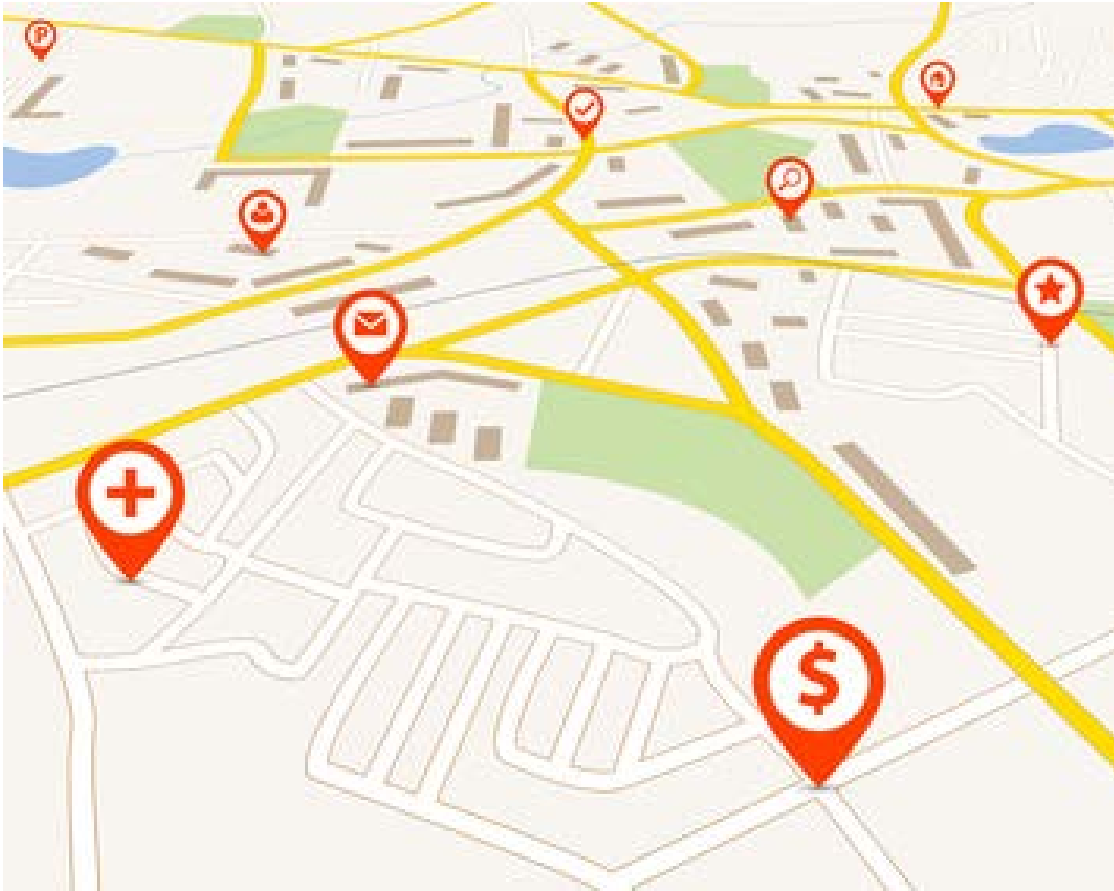


<http://martinfowler.com/bliki/JavascriptPromise.html>

Asynchronous Calls with \$q



Routing



Use `$routeProvider` to configure mapping of controllers and views to URLs

`$route` watches the URL and directs browser to the correct route

Use `$routeParams` to capture URL parameters

```
var ngRouteModule = angular.module('ngRoute', ['ng']).  
    provider('$route', $routeProvider)
```



\$route and \$routeProvider Configuration

- \$route created with “provider” function
- Service is configurable via the underlying \$routeProvider

```
app.config(['$routeProvider', function ($routeProvider) {  
    $routeProvider  
    .when('/', {  
        templateUrl: '/app/templates/books.html',  
        controller: 'BooksController',  
        controllerAs: 'books'  
    })  
    .when('/AddBook', {  
        templateUrl: '/app/templates/addBook.html',  
        controller: 'AddBookController',  
        controllerAs: 'addBook'  
    })  
    .otherwise('/');  
}]);
```

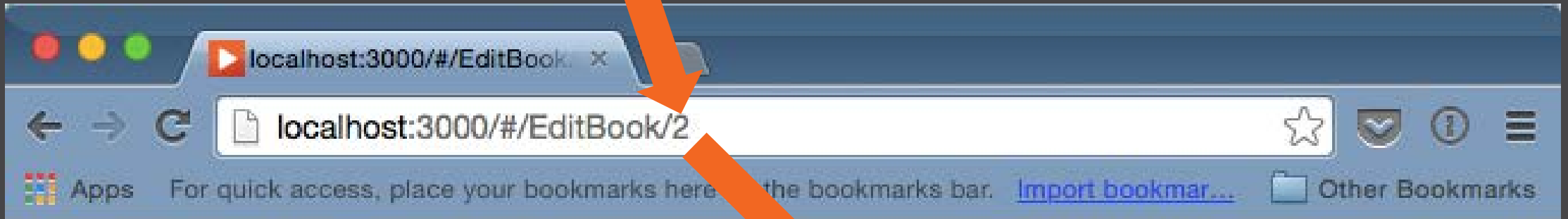


Configuring Routes

- Inject `$routeProvider` into `config()`
- Define a route using `when()` specifying a template and controller
- Use `otherwise()` to define a default route

\$routeParams

```
.when('/EditBook/:bookID', {  
    // ...  
})
```



```
function EditBookController($routeParams) {  
    var myParam = $routeParams.bookID;  
    console.log(myParam);  
}
```


Resolve Property

```
.when('/EditBook/:bookID', {  
  templateUrl: '/app/templates/editBook.html',  
  controller: 'EditBookController',  
  controllerAs: 'bookEditor',  
  resolve: {  
    books: function (dataService) {  
      return dataService.getAllBooks();  
    }  
  }  
})  
  
angular.module('app')  
  .controller('EditBookController', ['books', EditBookController]);  
  
function EditBookController(books) {  
  // configure controller here  
}
```



\$route Events

- Events related to route changes broadcast on \$rootScope
- Inject \$rootScope to define event handlers
- Use \$rootScope.\$on() to specify event types to listen for
- \$route defines four events
 - \$routeChangeStart
 - \$routeChangeSuccess
 - \$routeChangeError
 - \$routeUpdate

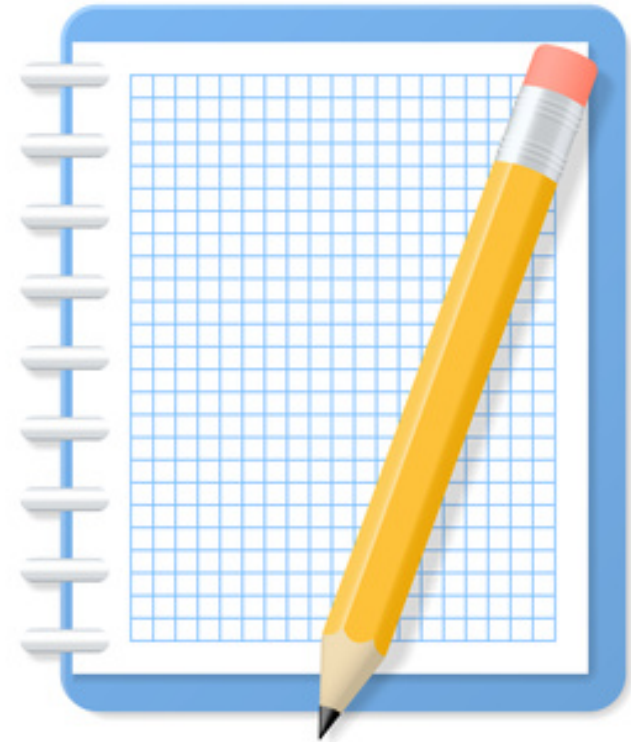
Using \$cookies and \$cookieStore

- Available in the ngCookies module
- Use \$cookies to read/write simple strings as properties on the service
- Use \$cookieStore to read/write objects
 - Serialized/deserialized to and from JSON
 - `get(key);`
 - `put(key, value);`
 - `remove(key);`



Using \$log

- Simple wrapper around common console functions
 - `log();`
 - `info();`
 - `warn();`
 - `error();`
 - `debug();`
- Output with `debug()` is configurable with `$logProvider`



Summary



Lots of built-in services

Conceptually no different custom services

Routing around the SPA

Using `$q` to manage asynchronous calls