STATE With Jan- Jangular. Jangular. Jangular. Jangular.

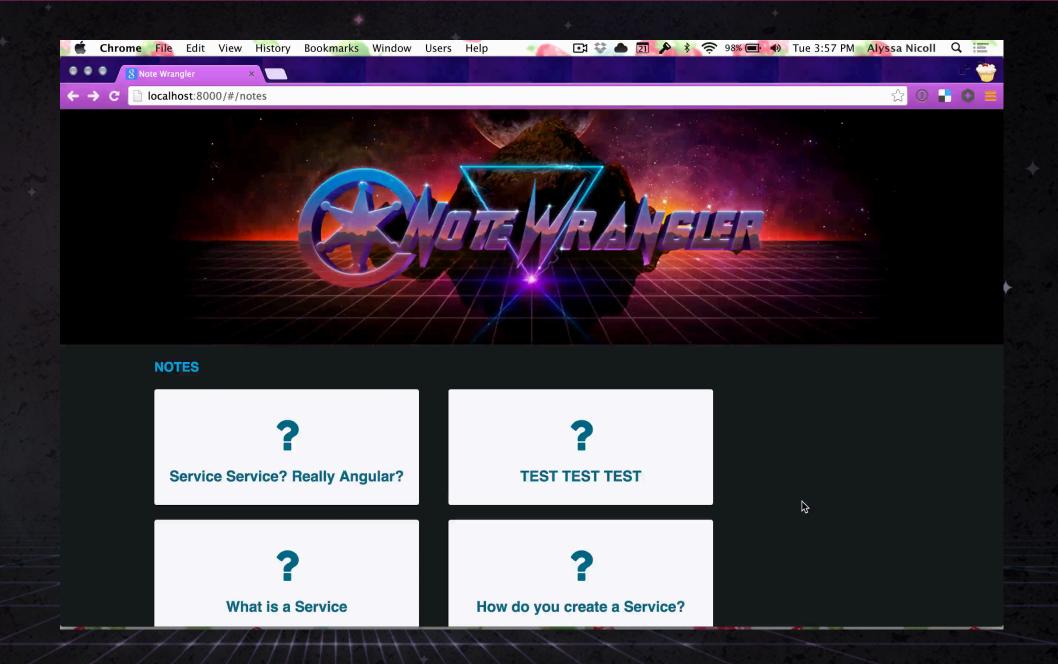


Services Level 3 5 Recipes and a Factory Section 1



Current State of Our App

- ✓ Note Wrangler
 index.html
 - > Css
 - ✓ is
 - app.js
 - controllers
 - f app.js
 - → ☐ filters
 - > directives
 - > _ templates



Controllers Currently Have AJAX \$http Calls

notes-edit-controller.js

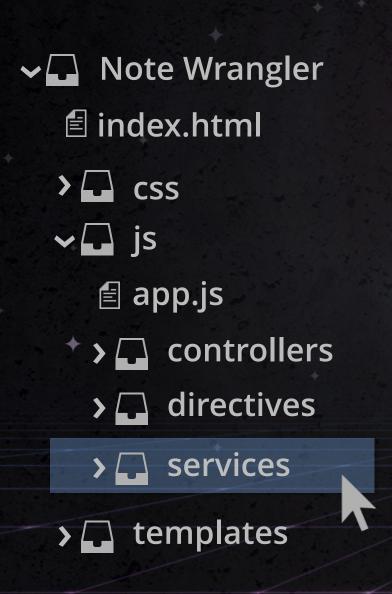
This code is fine, but it's not reusable across other parts of our application. It is also going to be harder to test.

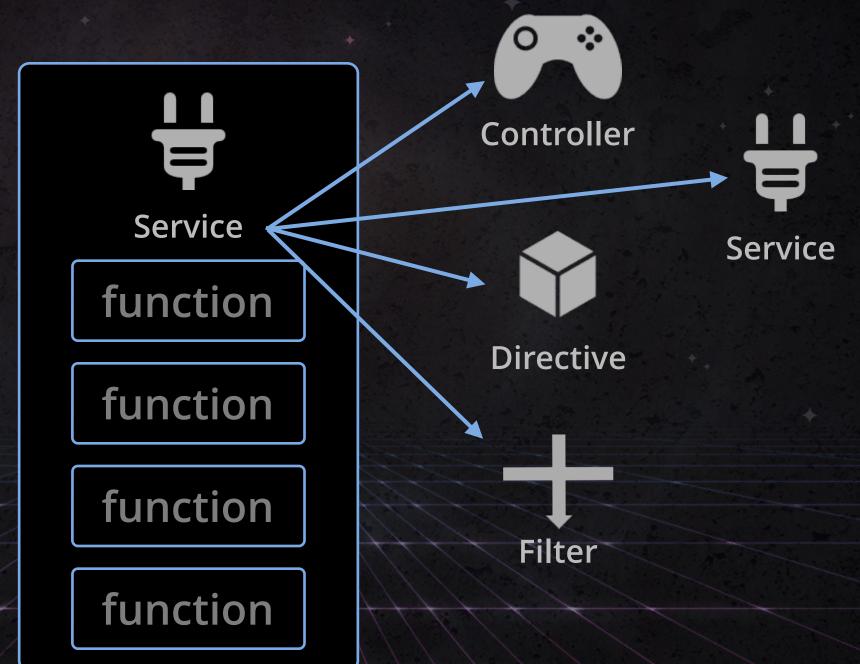
Where should this code be then?



북 A Service for Your Data

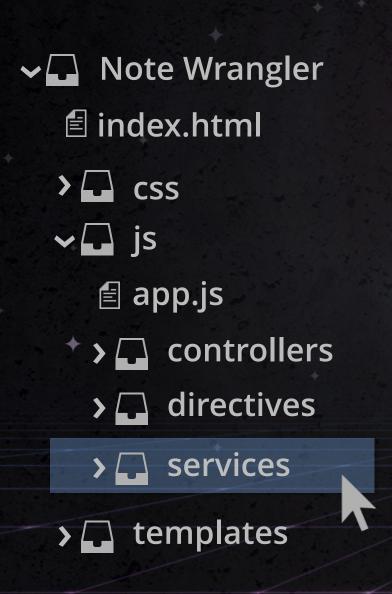
Services should hold functions responsible for connecting and fetching data, and then sharing it across our application.

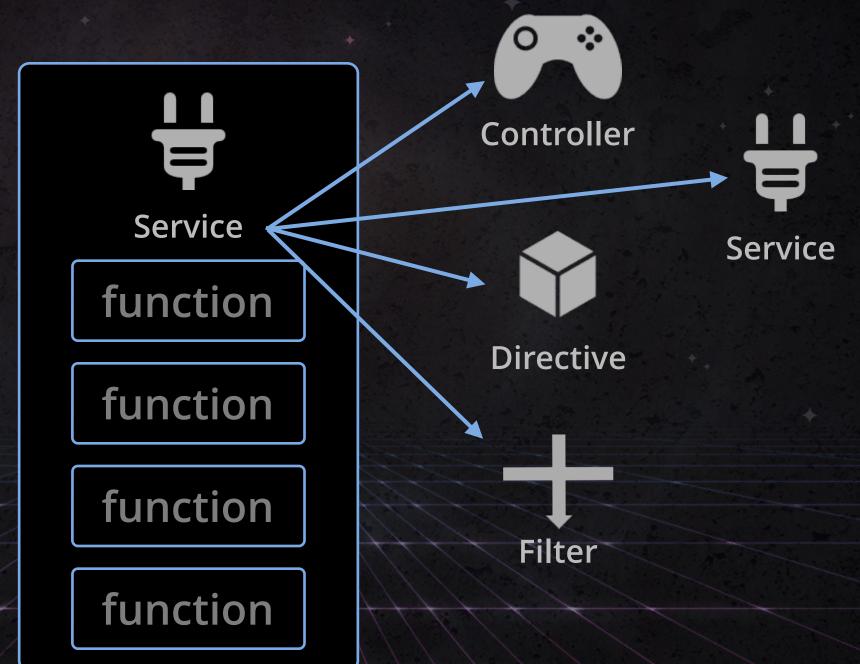




북 A Service for Your Data

Services should hold functions responsible for connecting and fetching data, and then sharing it across our application.





Creating and Including the Service File

```
∨ Note Wrangler
                       findex.html
  f index.html
                           <ng-view>
 > CSS
                           <script src="vendor/jquery.js"></script>
                           <script src="vendor/angular.js"></script>
 ✓ js
                           <script src="vendor/angular-route.js"></script>
   app.js
   > _ controllers
                           <script src="/js/app.js"></script>
                           <script src="/js/routes.js"></script>
     directives

✓ □ services

                           <!-- Services -->
     <script src="/js/services/note.js"></script>
                         </body>
 >  templates
                                                           Include
                       </html>
           Create
```

5 Service Recipes

We need to choose a recipe. There are 5 total recipes that range in complexity and customization. Factory and Provider are the two most commonly used for creating a Service.

- Value
- Factory
- Service
- Provider
- Constant

2 most common

북 2 Most Used Service Recipes

- Factory Most commonly used Used for sharing functions and objects across an application.
- Provider Commonly used
 Used for sharing methods and objects (like a Factory), but allows for configuration.

Creating a Service With the Factory Recipe

Use the Factory recipe to register the service with our app module.

```
angular.module("NoteWrangler")
.factory("Note", function NoteFactory() {
    ...
});
```

Remember the naming convention <name> + <recipe>

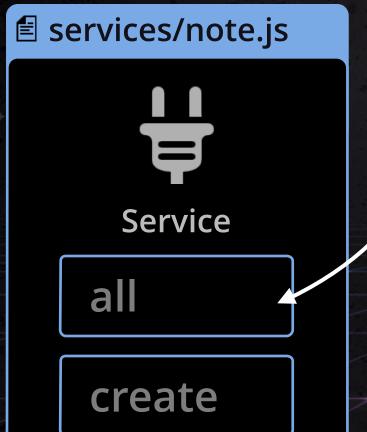
Factory recipe

```
angular.module("<ModuleName>")
.factory("<ServiceName>", function <ServiceName>Factory() {
  return { <object containing shared functions> }
});
```



H Populating Our Factory Service

```
angular.module("NoteWrangler")
.controller("NotesIndexController", function($scope, $http) {
   $scope.notes = $http({method: "GET", url: "/notes"}); )};
});
```



Inside our factory service we'll define reusable methods that make our \$http calls.

Populating Our Factory Service

The all method gets a list of all the notes, and create posts a new note.

```
E services/note.js
angular.module("NoteWrangler")
.factory("Note", function NoteFactory() {
  return {
     all: function() {
      return $http({method: "GET", url: "/notes"}); )};
     )},
     create: function(note) {
      return $http({method: "POST", url: "/notes", data: note});
     ) \}
});
```

#Calling Our Factory Service

services/note.js

```
angular.module("NoteWrangler")
.factory("Note", function NoteFactory() {
  return {
    all: function() { return $http({method: "GET", url: "/notes"}); )},
    ...
```

notes-index-controller.js

```
angular.module("NoteWrangler")
.controller("NotesIndexController", function($scope) {
    $http({method: "GET", url: "/notes"})
.success(function(data) {
    $scope.notes = data;
    });
});
```

북Calling Our Factory Service

Our notes controller now needs to use the notes factory.

notes-index-controller.js

```
angular.module("NoteWrangler")
.controller("NotesIndexController", function($scope) {
    $http({method: "GET", url: "/notes"})
.success(function(data) {
    $scope.notes = data;
    });
});
```



Injecting Factory Service

To use methods from the service, we need to first inject it into our controller.

```
angular.module("NoteWrangler")
.controller("NotesIndexController", function($scope, Note) {
    .success(function(data) {
        $scope.notes = data;
        });
    });
```

Calling Our Factory Service

Now our controller has access to, and can call, the notes factory.

Notice Notes has no \$. The \$ prefix is reserved for built-in Angular services.

