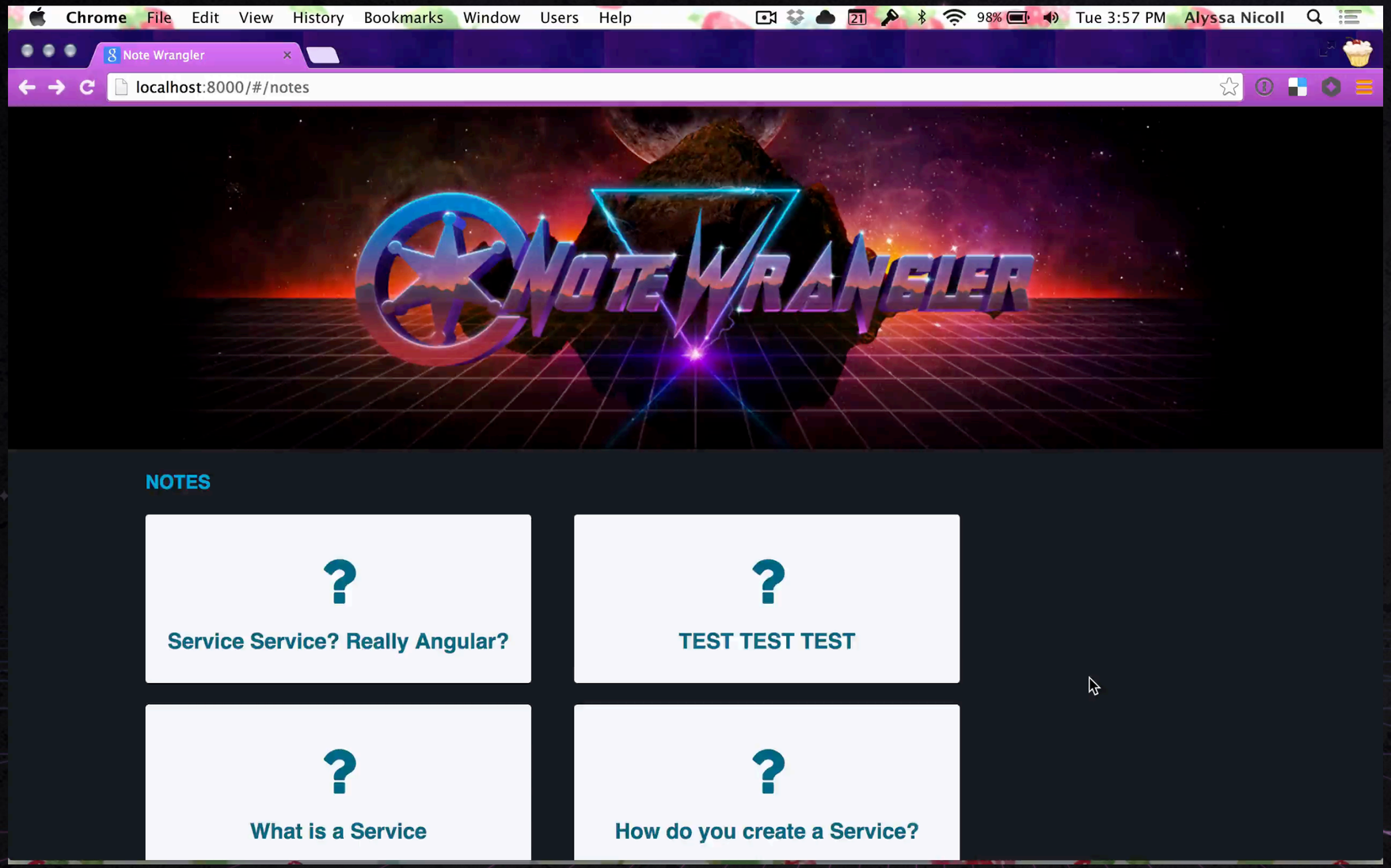

STAYING
SHARP
with
Angular.JS

Routes

Wiring Together Views Section 1

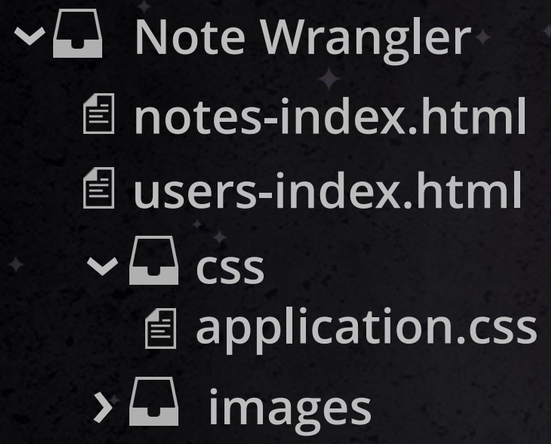
STAYING SHARP with Angular.JS

Angular Note Wrangler



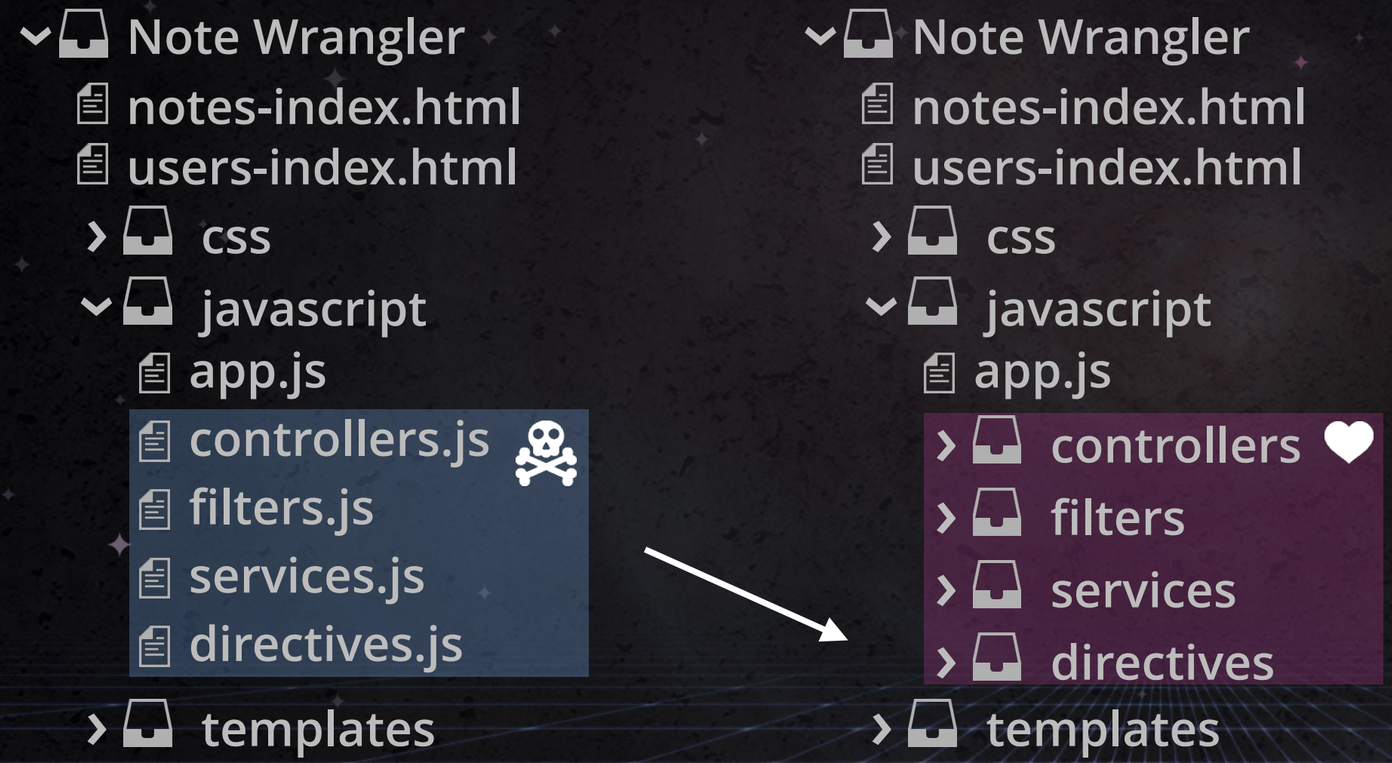
Starting With Static Pages

This was handed to us from our designer. All the pages are static.



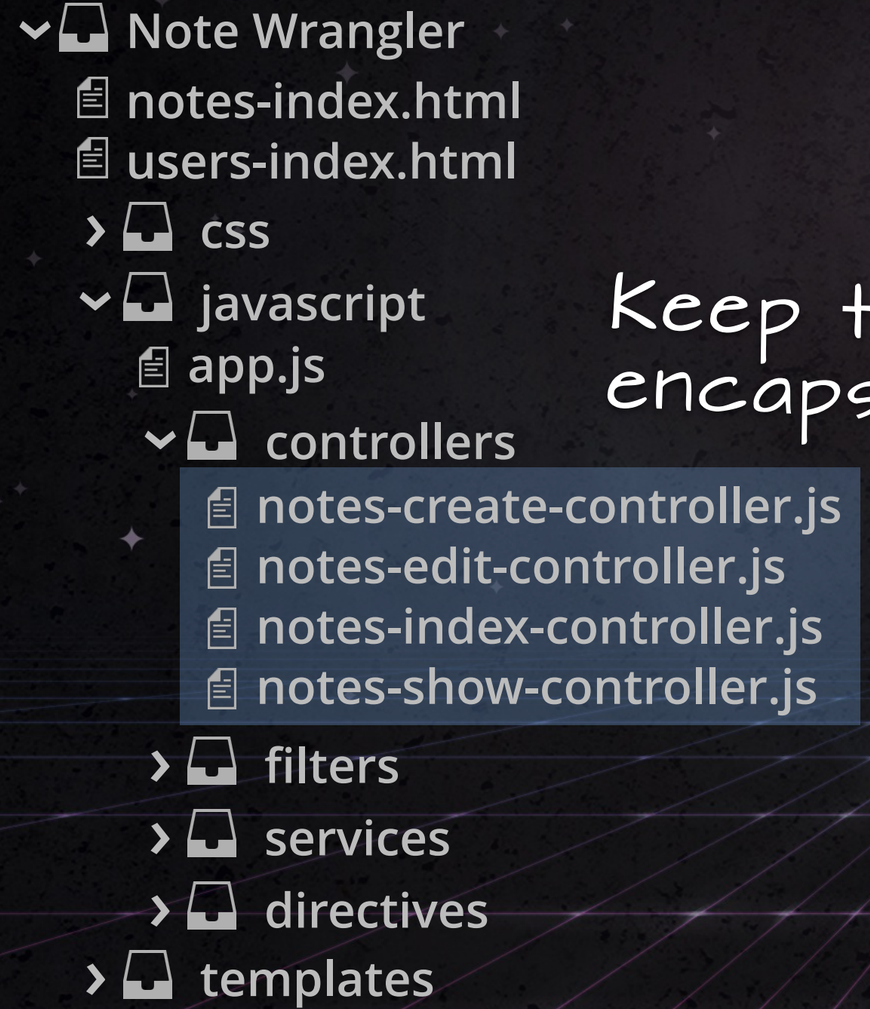
Organizing: Separate Directories for All

Separate controllers, services, filters, and directives into individual directories.



Organizing: Separate Files for All

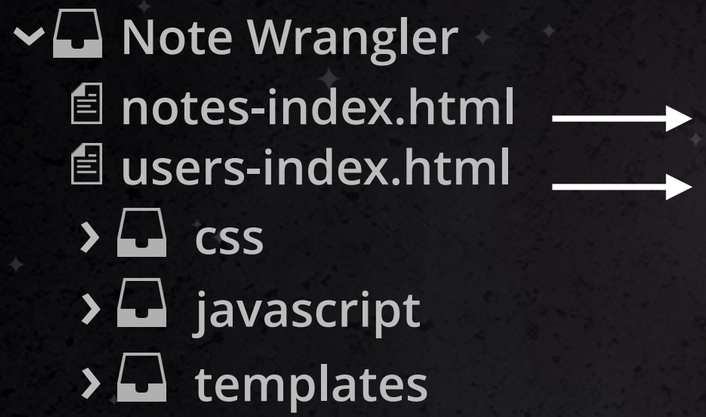
Inside the controllers directory we will have a file for each controller.



Keep things encapsulated and bite-size

Back to Our Designer's Static Files

Both of these static files have boilerplate code that is exactly the same.



Both are fully fleshed out files with much redundancy <html>...</html>

notes-index.html

Duplicated code in both users-index.html and notes-index.html

```
<!DOCTYPE html>
<html lang="en" ng-app="NoteWrangler">

  <head>
    <meta charset="utf-8">
    <title>Note Wrangler</title>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet" href="css/application.css" />
  </head>

  <body>
    <div class="nav-wrapper has-dropdown">
      <div class="nav-content">
        <div class="wrapper">
          <div class="nav-content-layout">
            <div class="nav-list">

              <a href="#/"
                 class="list-item"
```

notes-index.html

```
<div class="main-wrapper">
 <div class="note-wrapper">
   <div class="note-content">
     <div class="notes-header">
       <h1 title="Notes">Notes</h1>
     </div>

     <div class="note-wrapper">
       <a class="card-notes" ng-repeat="note in notes">

         <div class="card" title="{{note.title}}">
           <h2 class="h3">{{note.title}}</h2>
           <p>{{note.description}}</p>
         </div>

       </a>
     </div>

   </div>
 </div>
</div>
```

Unique chunk inside
the main-wrapper div

notes-index.html

users-index.html

```
<div class="main-wrapper">

    <div class="users-wrapper">
      <h1>Users</h1>

      <div class="users-wrapper">
        <a class="card-users" ng-repeat="user in users">
          <div class="card" title="{{user.name}}">
            <h2 class="h3">{{user.name}}</h2>
            <p>{{user.bio}}</p>
          </div>
        </a>
      </div>

    </div>

</div>

<!-- Load Js libs -->
<script src="./js/vendor/jquery.js"></script>
<script src="./js/vendor/angular.js"></script>
<script src="./js/vendor/angular-route.js"></script>
```

Unique chunk inside the main-wrapper div

Unique HTML Gets Its Own Template File

notes-index.html

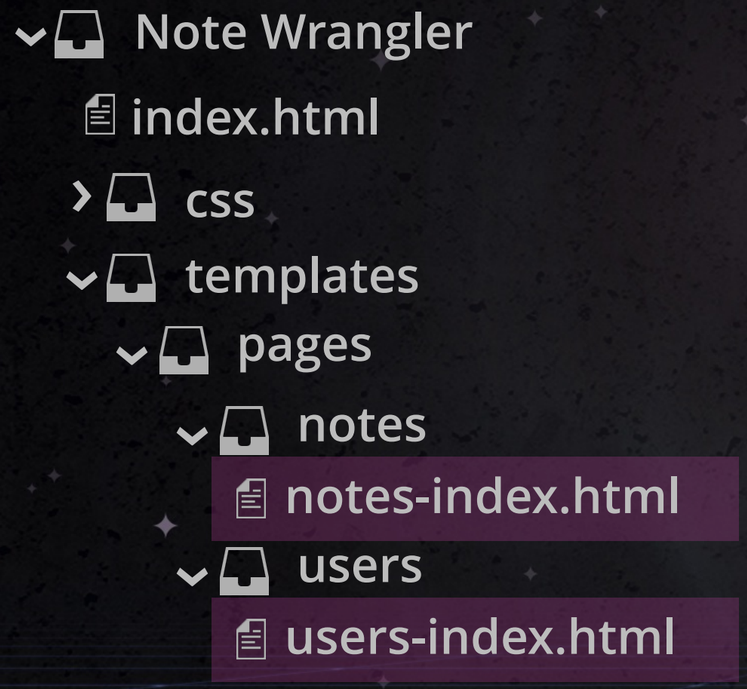
```
<div class="note-wr
  <div class="note-
    <div class="not
      <h1 title="No
    </div>

    <div class="not
      <a class="car

        <div class=
          <h2 class
          <p>{{note
        </div>

      </a>
    </div>
```

users-index.html

```
<div class="users-wrapper">
  <h1>Users</h1>

  <div class="users-wrapper">
    <a class="card-users" ng-repeat="user in users">
      <div class="card" title="{{user.name}}">
        <h2 class="h3">{{user.name}}</h2>
        <p>{{user.bio}}</p>
      </div>
    </a>
  </div>

</div>
```

Moving Templates Into Their Own Folder

We will place our static files into our templates/pages directory.



notes-index.html

```
<div class="note-wrapper">...
```

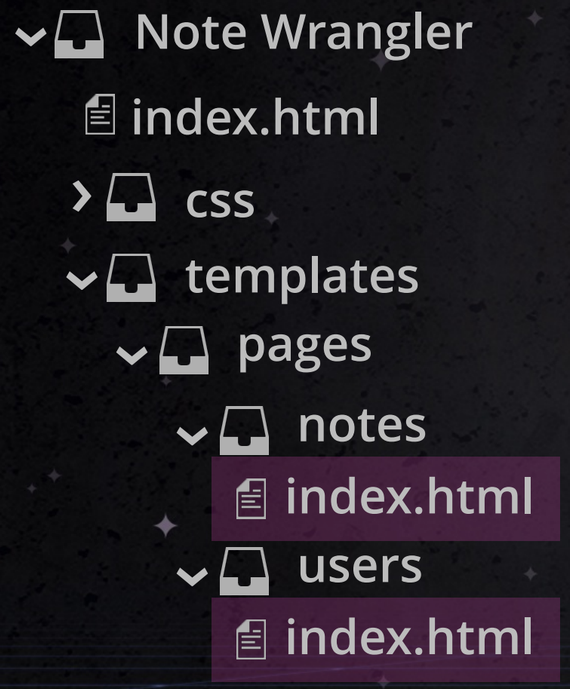
users-index.html

```
<div class="users-wrapper">...
```

We can eliminate the duplication and remove the prefix on our files.

Moving Templates Into Their Own Folder

We will place our static files into our templates/pages directory.



notes-index.html

```
<div class="note-wrapper">...
```

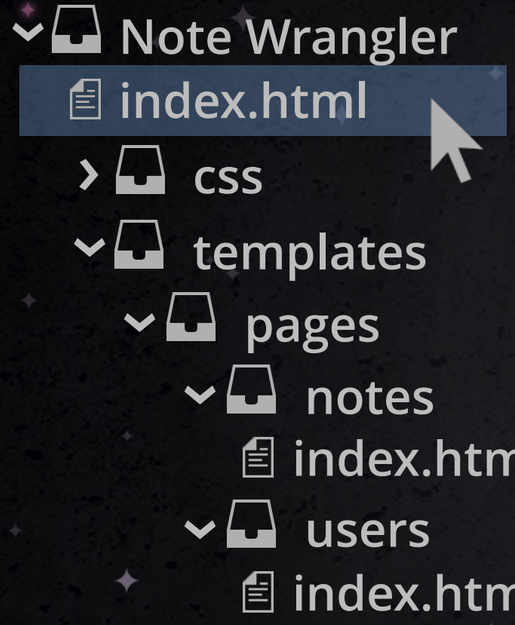
users-index.html

```
<div class="users-wrapper">...
```

We can eliminate the duplication and remove the prefix on our files.

Creating the Main Index File

This is the first file that will load up our Angular app.



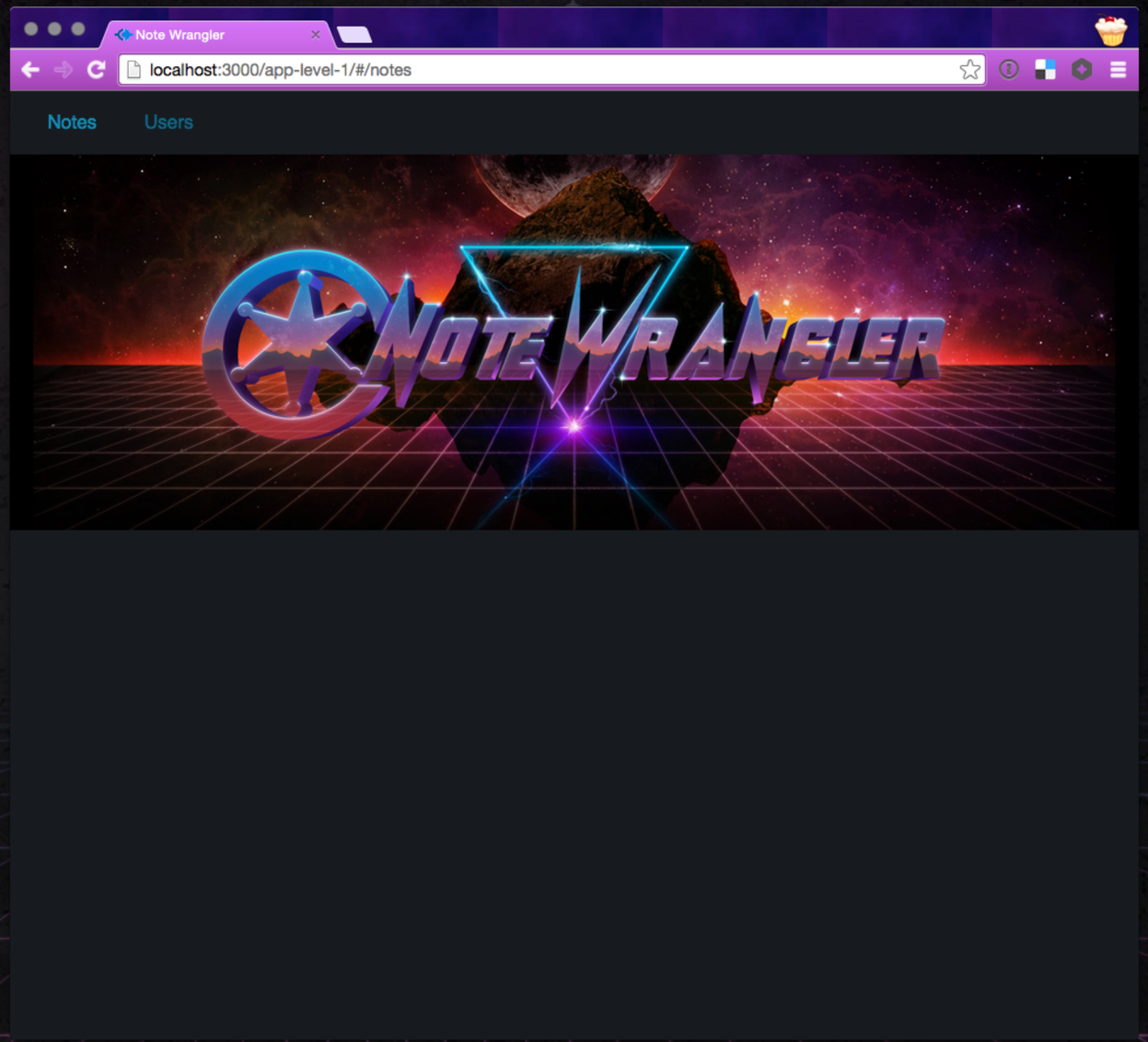
Add ng-app

```
<html lang="en" ng-app="NoteWrangler">
  <head>...</head>
  <body>
    <div class="nav-list">
      <a href="#/notes"> Notes </a>
      <a href="#/users"> Users </a>
    </div>

    <div class="hero-wrapper"> ... </div>
    <div class="main-wrapper">

    </div>
    <script src="/js/vendor/jquery.js"></script>
     ...
```

Unique content removed

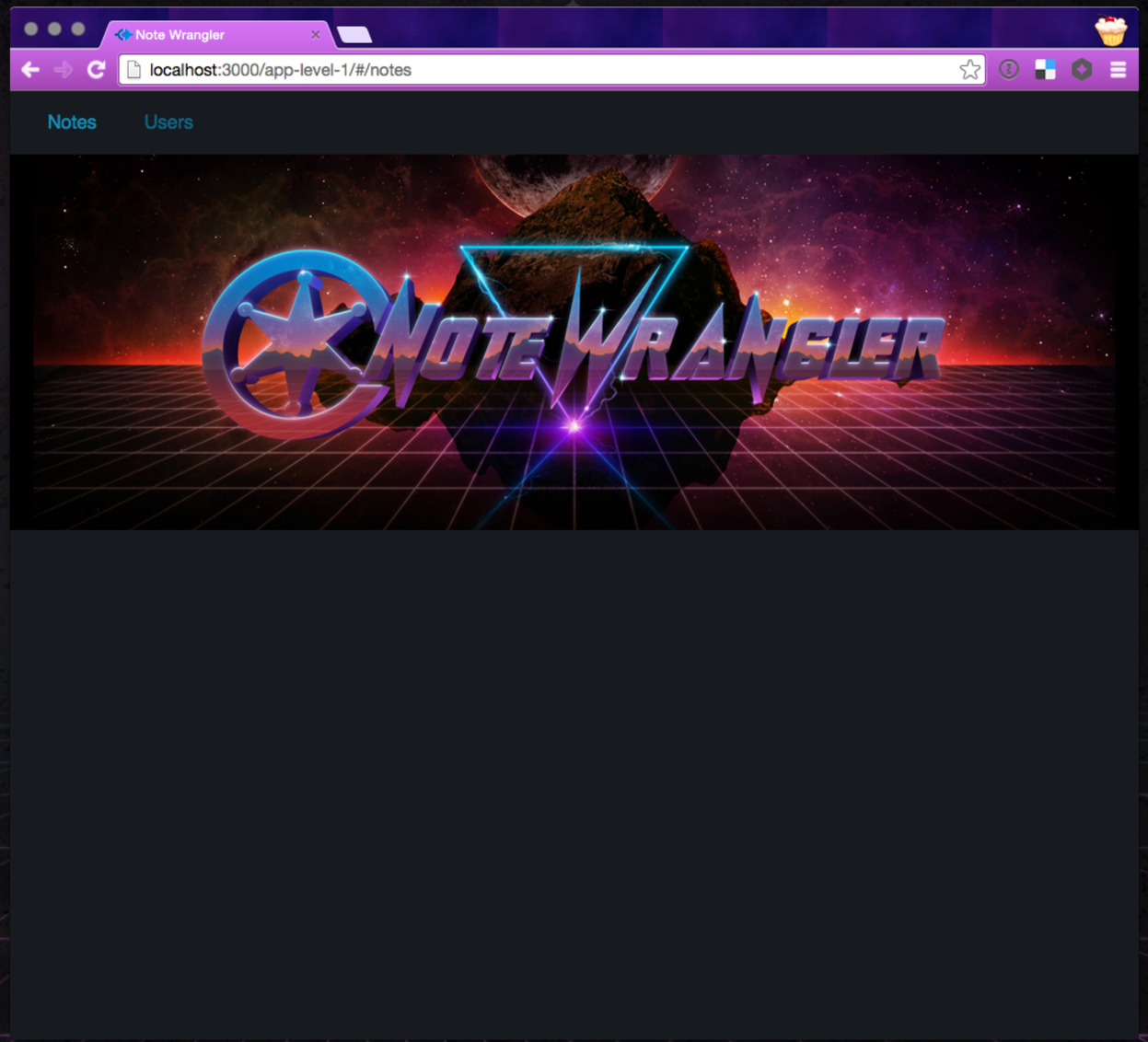
Current State of Our App

- Note Wrangler
  - index.html
  - css
  - templates
    - pages
      - notes
        - index.html
      - users
        - index.html
    - javascript



Current State of Our App

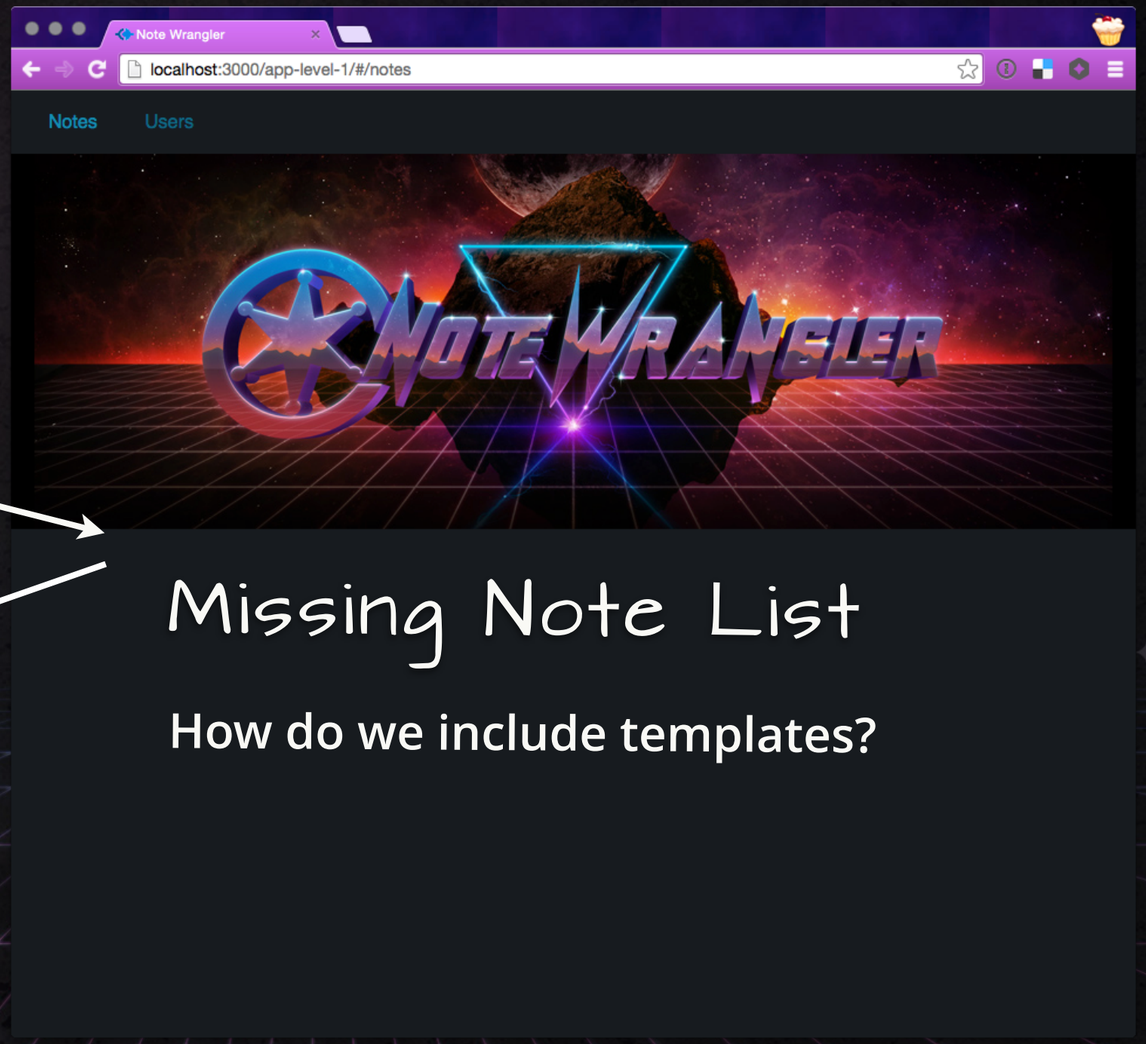
- Note Wrangler
  - index.html
  - css
  - templates
    - pages
      - notes
        - index.html
      - users
        - index.html
    - javascript



The Notes URL Should Load Notes

If the route is http://example.com/#/notes, we want index.html to load the notes/index.html.

- Note Wrangler
  - index.html
  - css
  - templates
    - pages
      - notes
        - index.html
      - users
        - index.html
  - javascript



Defining a Route

Angular routes allow us to map URLs to use templates so that every time the current route changes, the included view changes with it.

routes.js fetches and loads notes/index.html

Four Steps to Route Happiness

Using ngView

Loading the ngRoute **library**

Importing ngRoute **module**

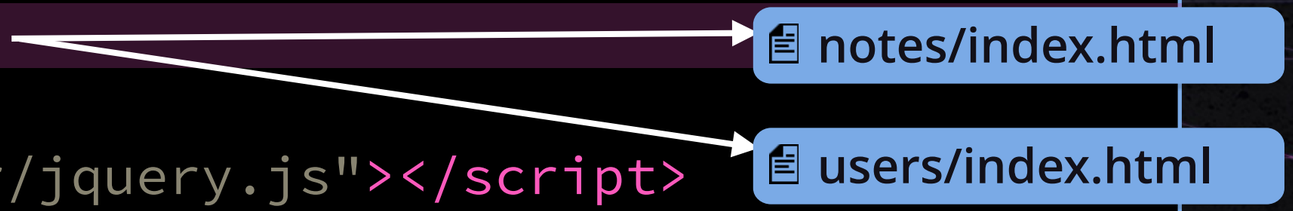
Defining routes

Using ngView

This allows us to tell our Angular app *where* to load in templates that we will wire together shortly.

index.html

```
<html lang="en" ng-app="NoteWrangler">
  <head>...</head>
  <body>
    <div class="nav-list">
      <a href="#/notes"> Notes </a>
      <a href="#/users"> Users </a>
    </div>

    <div class="hero-wrapper"> ... </div>
    <div class="main-wrapper">
      <div ng-view></div>
    </div>
    <script src="/js/vendor/jquery.js"></script>
```



Loading the ngRoute Library

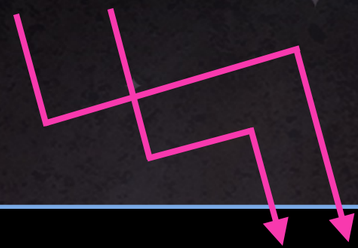
In order to slim the Angular core down, they put routing in a separate module. So you need to explicitly import ngRoute in your application.

index.html

```
<div class="hero-wrapper"> ... </div>
<div class="main-wrapper">
  <div ng-view></div>
</div>

<script src="/js/vendor/jquery.js"></script>
<script src="/js/vendor/angular-route.js"></script>
```

Including ngRoute in Our App

We need to include ngRoute in our main application module so our whole app will have access to this service.



app.js

```
angular.module("NoteWrangler", ['ngRoute'])
```

Now we can create a routes.js file!

routes.js

```
angular.module('NoteWrangler')
.config(function($routeProvider){});
```

We'll use $routeProvider in a minute to specify Routes.

Creating routes.js

Why aren't we doing it the way we learned in Shaping up with Angular.js?

```
var app = angular.module('store-products', [ ]);
app.directive('productTitle', function(){ . . . });
```

Setting your app module to a variable and reusing that variable is bad practice.

routes.js

```
angular.module('NoteWrangler')
.config(function($routeProvider){});
```

Re-declare your application module in every new file

Defining Routes With $routeProvider

Inside module.config we can use one of $routeProvider's methods to define routes.

```
.when(path, route);
```

Adds a new route definition to the $route service.

```
.otherwise(params);
```

Sets route definition that will be used on route change when no other route definition is matched.

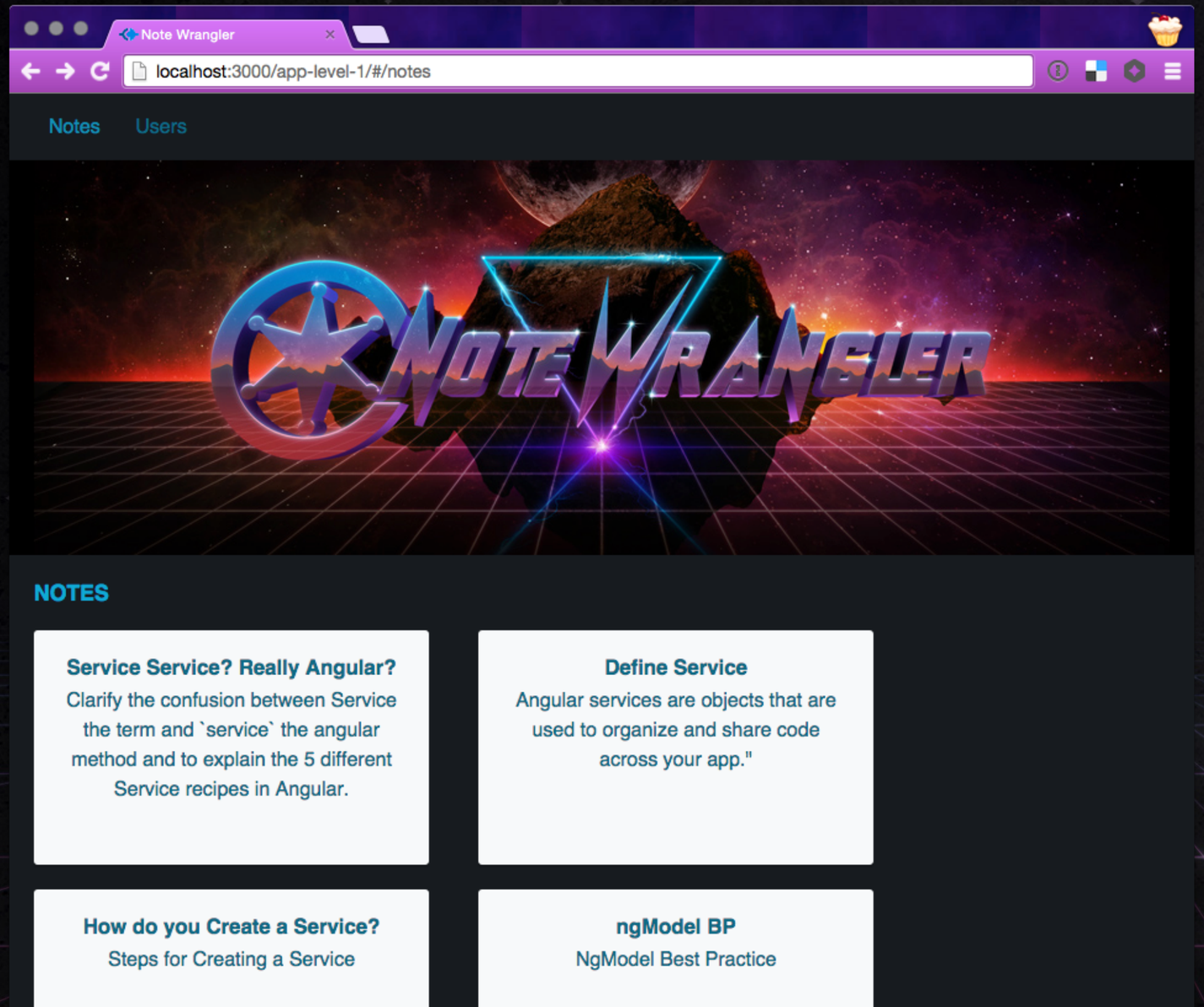
Declaring Our First Route

Let's go ahead and define a route for /notes **to load in the** notes/index.html **using** $routeProvider**'s** ***.when()*** **method.**

routes.js

```
angular.module('NoteWrangler')
.config(function($routeProvider) {
  $routeProvider.when('/notes', {
     templateUrl: '/templates/pages/notes/index.html'
  })
});
```

Notes Route Now Loads In



STAYING SHARP with Angular.JS

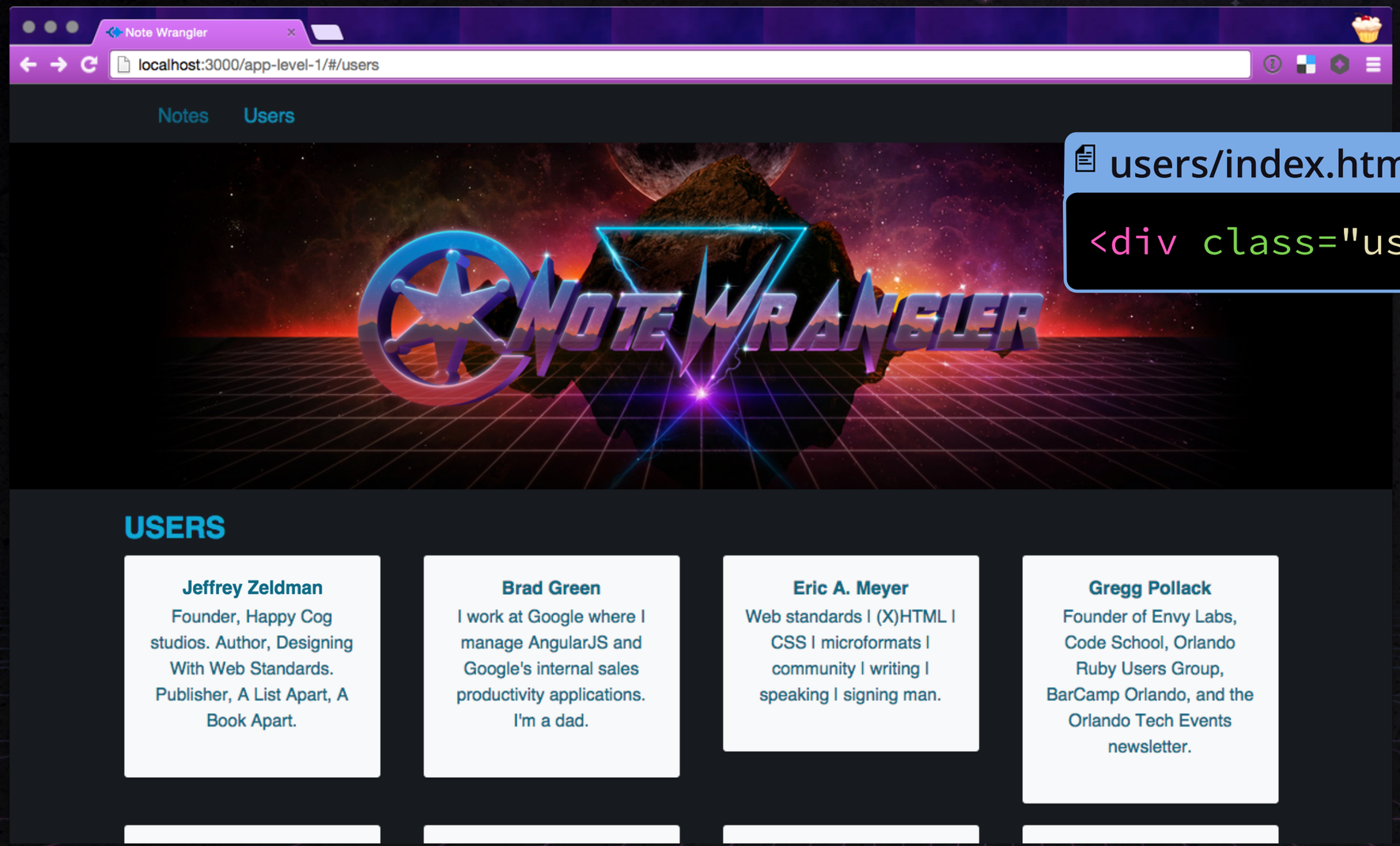
Adding the Users Route

routes.js

```
angular.module('NoteWrangler')
.config(function($routeProvider) {
    $routeProvider.when('/notes', {
      templateUrl: 'templates/pages/notes/index.html',
    })
    .when('/users', {
      templateUrl: 'templates/pages/users/index.html',
    })
});
```

Notice the method chaining

Users Route Now Loads In



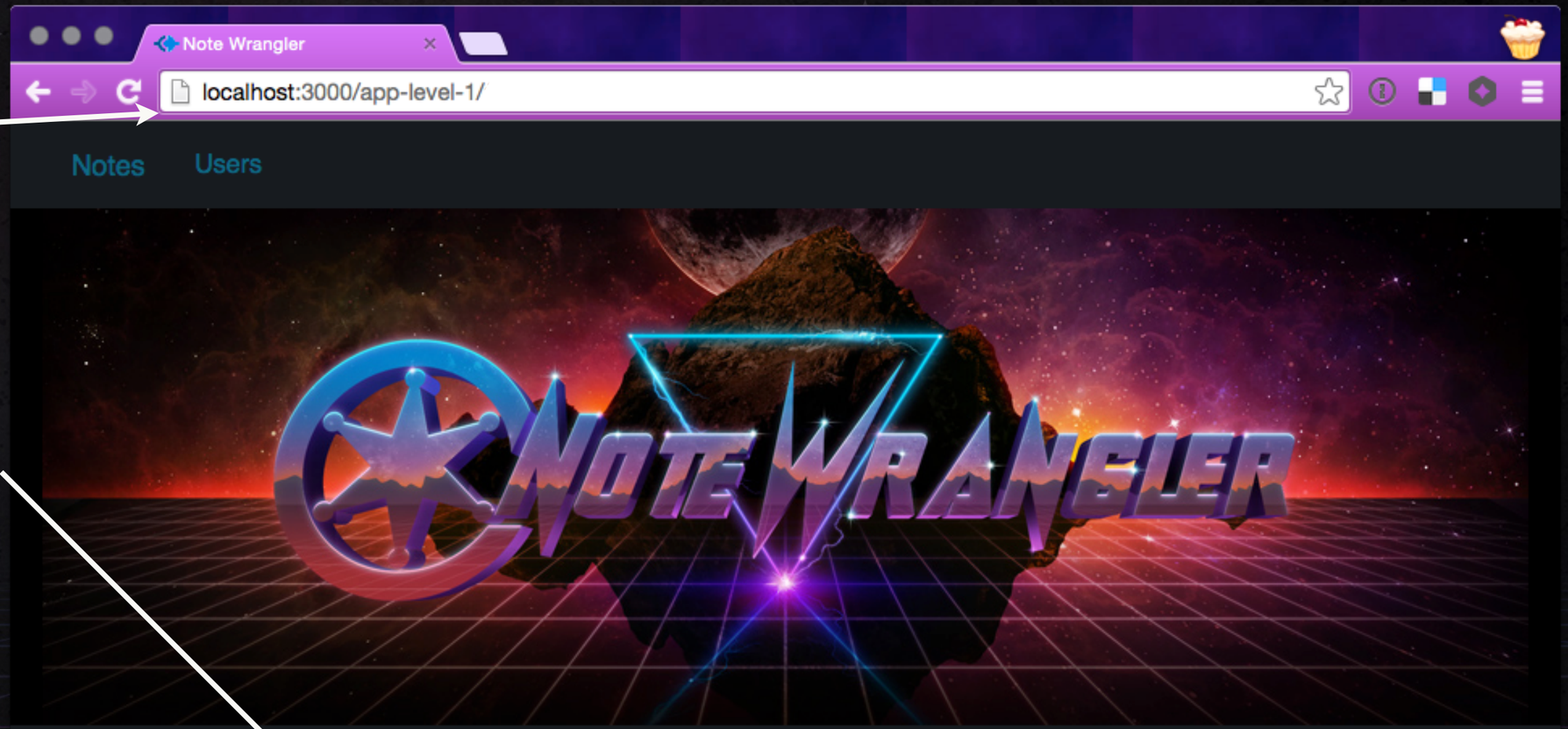
users/index.html

```
<div class="users-wrapper"> ...
```

Defining the Root Route

If the route is http://example.com/ though, we want index to load in the notes/index.html by default.

- Note Wrangler
  - index.html
  - css
  - templates
    - pages
      - notes
        - index.html
      - users
        - index.html



Missing Notes List!

Options for Loading In Notes for Root Route

routes.js

```
angular.module('NoteWrangler')
.config(function($routeProvider) {
  $routeProvider.when('/notes', {
    templateUrl: 'templates/pages/notes/index.html',
  })

  ...

  .when('/', {
    templateUrl: 'templates/pages/notes/index.html',
  })

});
```

Setting a Catch-all Route

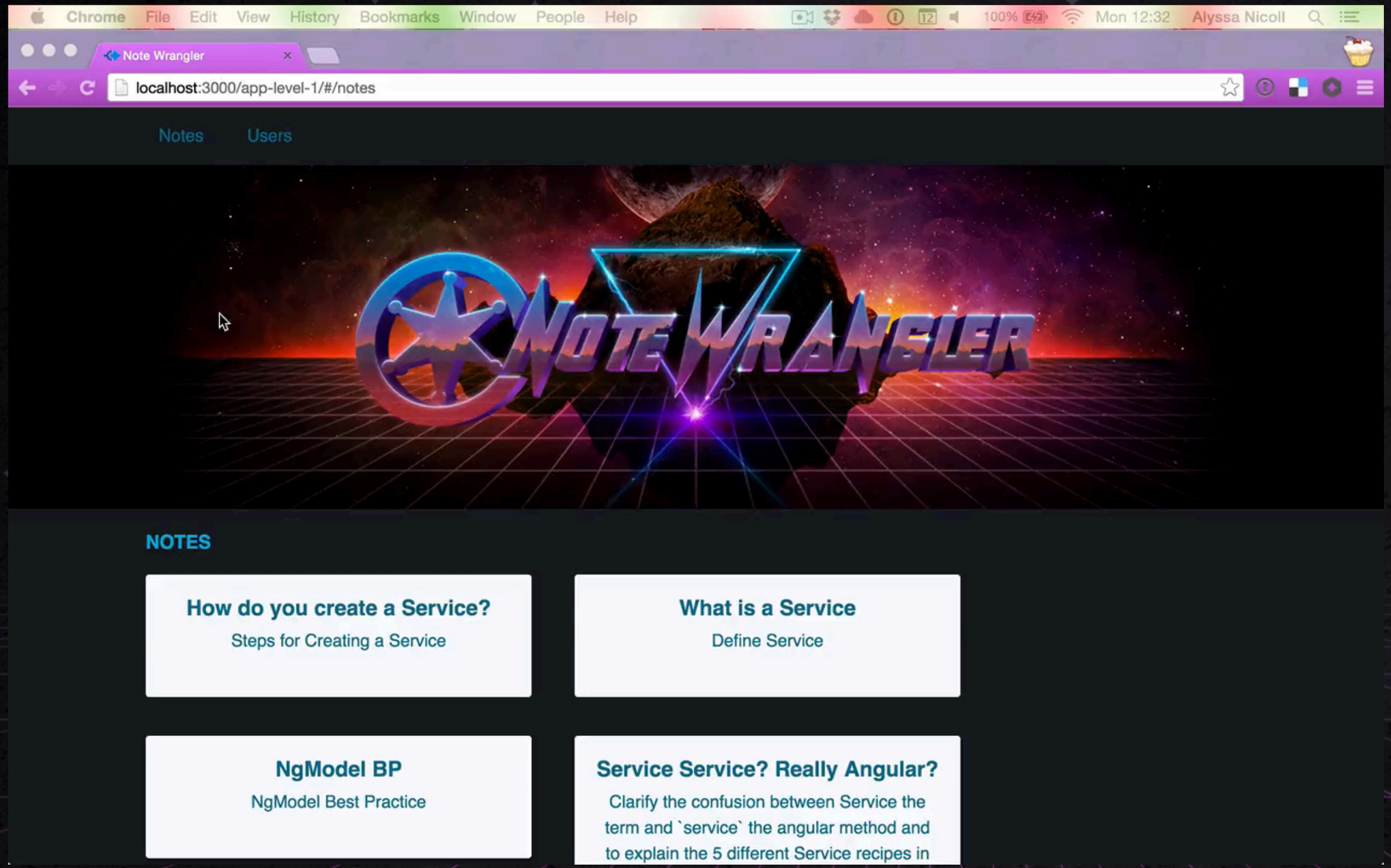
routes.js

```
angular.module('NoteWrangler')
.config(function($routeProvider) {
  $routeProvider.when('/notes', {
    templateUrl: 'templates/pages/notes/index.html',
  })
  ...
  .when('/', {
    templateUrl: 'templates/pages/notes/index.html',
  })

  .otherwise({ redirectTo: '/' });
});
```

`.otherwise(params);`

Sets route definition that will be used on route change when no other route definition is matched.

Templates Are Now Wired Up



Serving Up Our Application