

# Intro to Directives Lab

## Working with ng-app and ng-controller

1. In your *app* folder, you have a file called *index.html*. Edit it.
2. Make sure it has two attributes in the `<body>` tag, one for `ng-app="mainModule"` and one for `ng-controller="mainProductController"`.

These will wire up Angular to be in control of the page. You may already have the `mainModule`, but you probably don't have the `mainProductController`, so let's create that.

3. open your main module and add a new controller to the module called `"mainProductController"`. Just like before, have it `console.log()` something so we can be sure it is running.
4. Run and test until you see your console message. Do what you must to get it running.

## Working with ng-repeat

We've decided that in order to push certain products we're going to feature them on our front page. We'll eventually pull them from a database in our controller but we're not ready for that yet. We'll simulate it using a JSON array of products.

5. Look in the `/assets/js` directory for a file called `products.json.js`. Open it in an editor.
6. Copy the entire array and paste it in your controller.
7. Get the array into `$scope.topProducts`.

If they're part of `$scope`, we know they'll be available in the view. And since they're in an array, we should loop through them using `ng-repeat`.

8. In `index.html`, find where we should be displaying four products and replace them with this:

```
<div ng-repeat="product in topProducts" class="item text-center"
    ng-class="{ 'active': $first }">
  <a ng-attr-href="product/index.html/#{product.productID}">
    {{product.productName}}</a>
  </div>
```

9. Run and test. You should be able to see the products you put in the array.
10. Bonus! Note that the `ng-attr-src` could have been written as `ng-src` and that `ng-attr-href` could have been shortened to `ng-href`. Feel free to change them if you like.

## Adding a map

In case our customers want to find our brick-and-mortar location, let's give them map to us.

11. Open the about us page and add a `<section>`. In this section, put a `<h3>Map of our headquarters</h3>` and an `<img src="" />`
12. Set the src of the map to "  
`https://maps.googleapis.com/maps/api/staticmap?markers={{  
company.streetAddress }} {{ company.city}} {{ company.region }} {{  
company.postalCode }}&size=600x600&maptype=hybrid"`
13. Run and test. Look at your console and/or network panels. You should have some errors like 404s.

Those errors might worry us during testing. They're caused by the src which has mustaches in it. This won't be hidden from the browser unless we change it to `ng-attr-src`. That directive signals Angular to replace the mustaches with model values.

14. Change the src attribute to `ng-attr-src` and refresh the page.

Once you can see your map and have no http errors, you can be finished.