Notes 8/30/16

**Angular Services and Factories**

*Services*

* Services provide data/features
* Data/features can be used in more than one place.
* Only created when they are needed in a controller. **Singletons**.
* You need a controller for every view that you have.
* Service is tied to getting a set of data. Services can be used in multiple places and aren’t tied down to a controller the way a controller is tied to a view.
* **Service is a vehicle for delivering data to controllers**
* Singletons. Will always give you the same data. Singletons are literally the same object. Non-singletons won’t always give you the same data. Non-singletons are copies the same object.

*Built in Angular Services*

* $http – send http requests and receive data back.
* $location – Can tell you where you are in an Angular app and send you to other pages
* $log- Console.log for Angular
* $filter- Can be used to filter data on a page.

*How to use Angular services*

* Some things don’t fit inside a controller
* Keep controllers “skinny”
* Use services to store data/processes that should be used in multiple controllers

**Differences between a Controller and a Service**

Controller

* Clicking the login button
* Showing the username in the corner
* Displaying a list of to do items
* Showing the weather today

**VS.**

Service

* Sending a request to the server to login a user
* Getting user information from the database
* Retrieving a list of to dos from the database
* Getting the weather from a weather API

**Dependency Injection** is a method to inject information from the service into the controller

Var makes it a private variable and this. makes it a public variable.