

Intro to AngularJS

More than just data binding







Agenda

- Overview of AngularJS
- Focus more on structure and use than features
- Highlight more complex areas
- Provide a starting point for you to begin analyzing for yourself
- Review some code

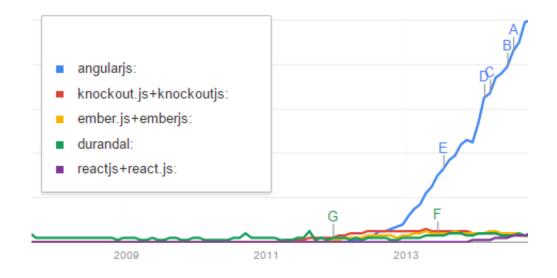


What is it?

- Angular allows you to extend HTML vocabulary to provide dynamic behavior.
- Provides an MVC pattern for client side (browser) application development.
- Developed by a team at Google
- http://angularjs.org



Why are we talking about it?



From: http://larseidnes.com/2014/11/05/angularjs-the-bad-parts/



Browser becomes another device





Basic Angular Functionality

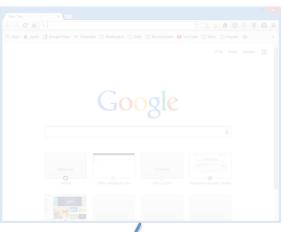
https://angularjs.org



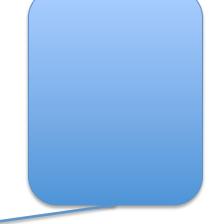
How the Data Bind Magic works



Angular Shadow DOM



View Model



\$digest cycle



Isn't MVC already on the server?

- Yes. Using Asp.Net MVC there is a server side MVC pattern.
- Using AngularJS there is a second MVC pattern in the browser.
- The two are independent of each other.



Angular View



Angular Controller



Angular Model

```
Ifunction todoListController(todoDataService)

var vm = this;
vm.toDos = [];
```



Angular App – Main container

```
angular
.module('todoApp', [
]);
```



Angular Service

```
angular
    .module('todoApp')
    .factory('configService', configService);

configService.$inject = ['$http'];

function configService($http) {
    return {
        todoApiUrl: todoApiUrl
    };

    function todoApiUrl() {
        return 'http://localhost:19042/api/todos';
    }
}
```



Directives – UI Components

 Directives provide a mechanism for componentizing the UI.



Angular Modules provide Testability

 Using tools such as JasmineJS and Qunit each module (Controller, Service, Directive) can be unit tested independently.



Validation

- Always validate on the server as well as the UI.
- http://scotch.io/tutorials/javascript/ angularjs-form-validation



Angular Coding Standards

- From Angular
 https://docs.google.com/document/d/1XXMvReO8 Awi1EZXAXS4PzDzdNvV6pGcuaF4O9821Es/pub
- Opinionated Style from John Papa <u>https://github.com/johnpapa/angularjs-styleguide</u>



References

- http://angularjs.org
- http://larseidnes.com/2014/11/05/angularjs-the-bad-parts/
- http://scotch.io/tutorials/javascript/angularjs-form-validation