

ANGULARIS What You Should Know...

HTML, CSS, JavaScript OOP, MVC SPA

jQuery or similar library (Zepto or jQLite)

Even JavaScript will do

Vijay Shivakumar



NGULARIS Current Browser support

IE9 or greater only

Current Versions of

Safari

Chrome

Firefox

Opera

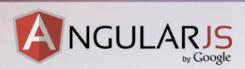
Mobile Browsers

Android

Chrome Mobile

iOS Safari

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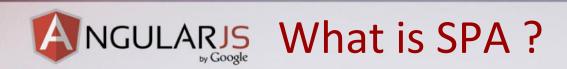
NGULARIS What is Angular About?

Angular JS makes HTML suitable for web application development.

Angular JS is especially used to make SPA.

AngularJS is declarative and has preset ways of working

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Current Technologies:

DOM Manipulation

Manage History

Routing

Ajax calls

Data Binding

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ANGULARIS Lets solve the puzzle

What is available? Understand how that fits together How to organize them





Angular Buzzwords

Application Framework Modular / Reusable Pub / Sub Communication **Dependency Injection** Routing / Deep linking **Data Binding Expression**

Templates Filters Unit Testing Localization Validation Directives jqLite



NGULARIS Features of Angular JS

Model View Controller architecture

A well known and proven architecture

Data Binding

Automatically synchronizes values between Model and View

Templates

Makes it very easy to update the user interface

Dependency injections

Code dependencies are automatically injected where needed

Extends HTML with directives

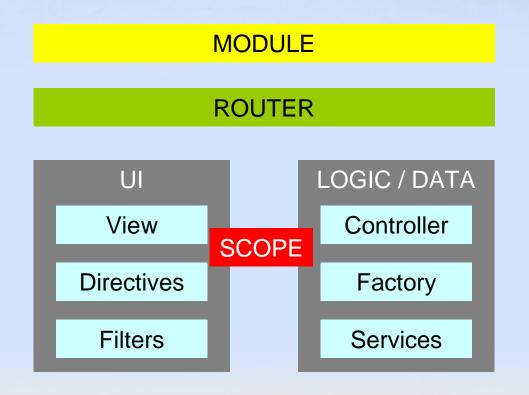
Lots of powerful standard directives or create your own

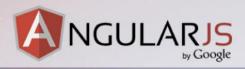
Build with testing in mind

Makes it much easier to unit test different parts

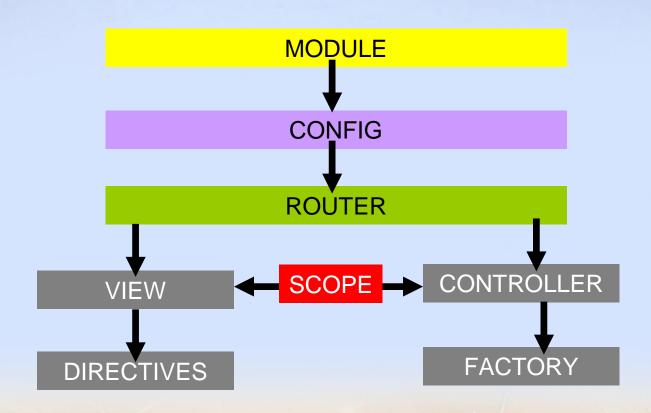


AngularJS Introduction

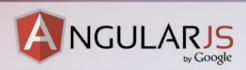




AngularJS Introduction



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ANGULARIS What is a Module

It's a container for

Controllers

Routers

Factories / Services

Directives

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NGULARIS What are Controllers

Are the Brain of your application Gets data from a factory/service & store it Handle events triggered by the views Know how to handle custom logic Interact with the view via \$scope

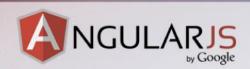
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NGULARIS What are Factories / Services

It's used to make ajax calls Shared data between controllers Used to handle custom logic Singletons to ensure no duplication

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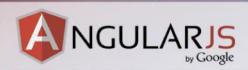
ANGULARIS What are Directives?

They teach HTML new tricks **DOM Manipulation** Data binding Controller / Modules

CSS

Events

Render Views



NGULARIS Few Common Directives

DOM Manipulation

ng-hide / ng-show

ng-repeat

ng-view

DATA Bind

ng-init ng-mode

Modules / Controllers

ng-app

ng-controller

Events

ng-click

ng-keypress

ng-mouseenter

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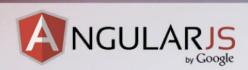
NGULARIS Data Binding in AngularIS

Data binding is not a native capability of JavaScript (yet)

The model changes the data and the view is updated

The view changes the data and the model is updated

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NGULARIS Common data filters

number currency

orderBy date

lowercase uppercase

limitTo json

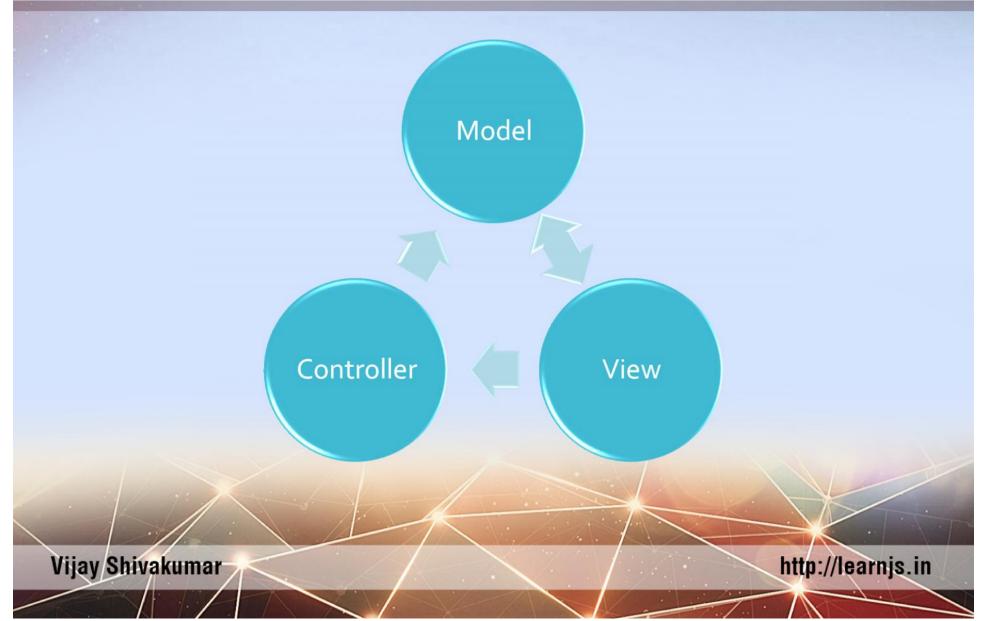
filter

currency: 'INR';

number:2; // decimal value date://www.dd/, small,;

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Model

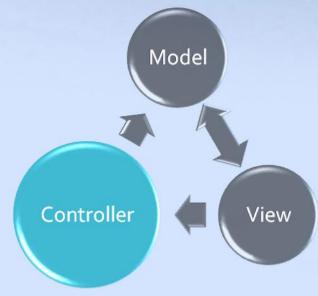


The user interface layer
Data binds to the model
Calls functions on the controller
Use declarative directives for reusable code

Model

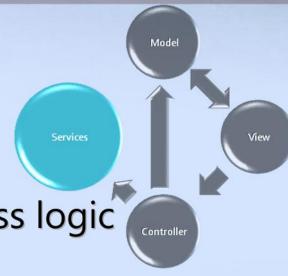


NGULARIS The Controller



Glues the view and the model together Provides additional functionality Uses additional services for reusable logic





Services are reusable pieces of business logic Separation results in reuse and testability

Created as singleton objects

Inject by AngularJS using dependency injection

Services are created as part of a module

One module can take a dependency on another module

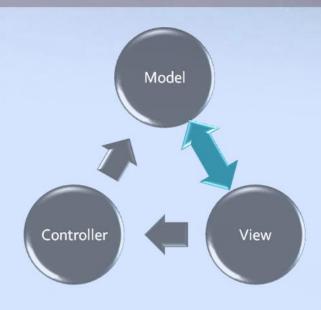
Modules are groupings of related functionality

Also used to bootstrap the application

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ANGULARIS The Scope Chain



\$scope?

The glue between the Model and View

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Lets get started with



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Lets bootstrap angularJS to the application

The ng-app directive tells Angular which part of your main template it needs to watch. It 'wakes up' Angular.

You can (should) define a specific Angular module to serve as the core app logic: ng-app='myModule'.

You can also bootstrap manually, if you need to.

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NGULARIS What are directives?

According to AngularJS directives teach HTML new tricks.

Adds additional capabilities to html tag can be for existing attributes, styles or a custom attribute

Supports new behaviour for existing tags Eg,. You can create tabs or charts out of divs etc...

Each directive is different and params change as per directive.

NGULARIS How to use them...?

You can use them as tags

```
<ng-form> </ng-form>
<ng:form> </ng:form>
```

You can use them as an attribute of a tag

```
<div ng-form> </div>
```

You can use them as classes

```
<div class="ng-form"></div>
```

Each directive has a specific way to be declared...



NGULARIS List of few common directives

ngApp

Wakes up Angular JS

ngBind

Binds a variable to view

ngHTML

Binds sanitized HTML to view (comes from the sanitize library)

ngBindTemplate

Binds more than one value to view ({{val1}} {{val2}})

ngBindHTMLUnsafe

Binds unsanitized HTML to view (comes from the sanitize library)



NGULARIS List of Common Event Directives

ngKeydown ngKeypress ngKeyup ngMousedown ngMouseenter ngMouseleave ngMousemove ngMouseover ngMouseup ngBlur ngChange ngChecked ngClick ngDblclick

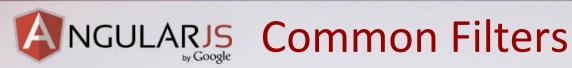
```
<button ng-click="clickFun"> Click Me </button>
<input type="checkbox"
       ng-change="changeFun"
       ng-model="count"
```



ANGULARIS List of few common directives

ngShow ngHide

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currency date **JSON** limitTo lowercase uppercase filter number orderBy

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