

# AngularJS

HTML enhanced for web apps

# Table of Contents

- Why AngularJS
- Concept
- Routing
- UI
- Form
- i18n
- Deployment
- Testing
- Resource

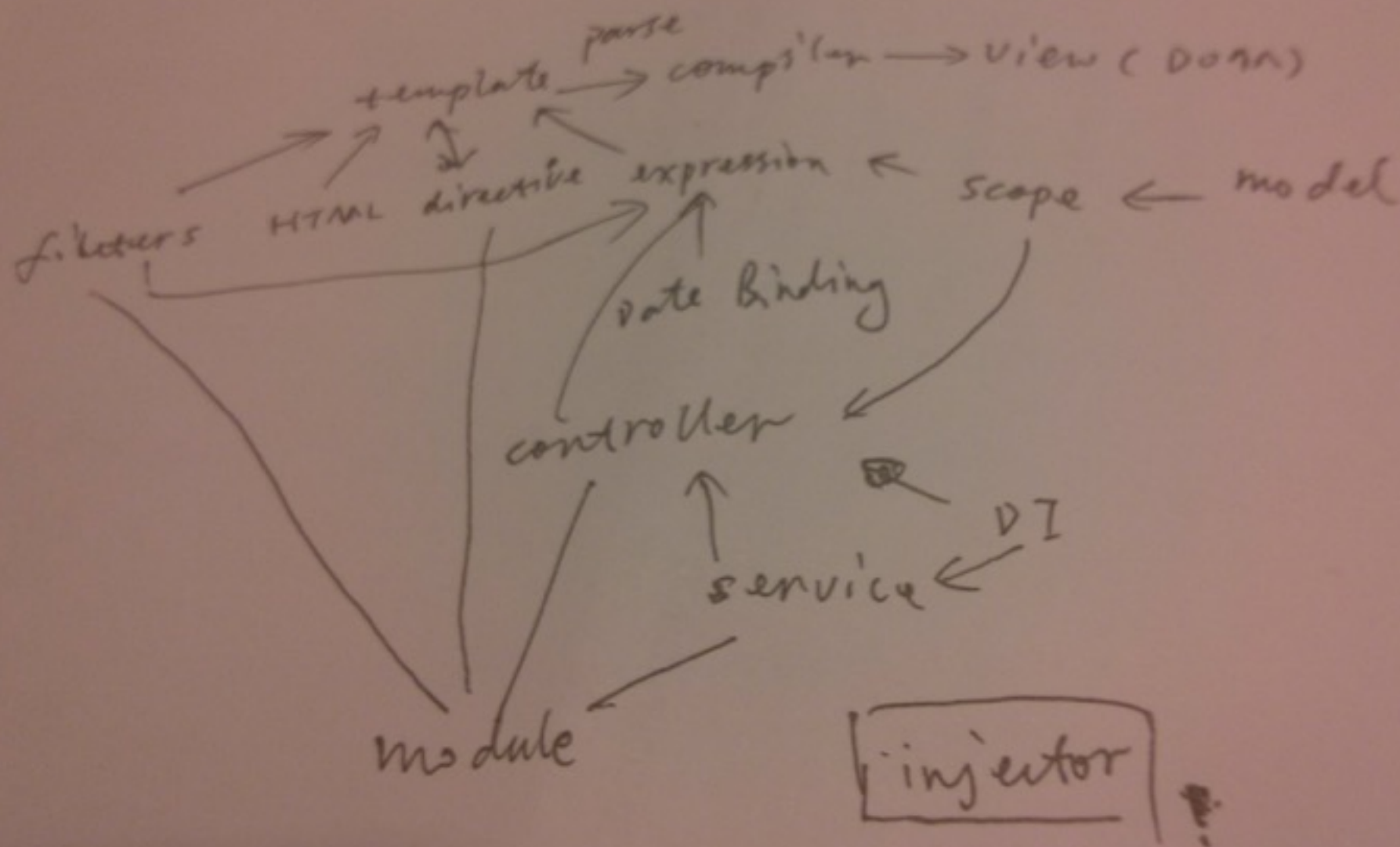
# Why AngularJS

- HTML enhanced for web apps
- Decouple DOM manipulation from app logic
- Decouple the client side of an app from the server side
- No need manipulating HTML DOM programmatically
- No need synchronize between DOM and model
- Easy to Test

# Concept

- Model - the data shown to the user in the view and with which the user interacts
- View - what the user sees (the DOM)
- Data Binding - sync data between the model and the view
- Controllers - the business logic behind views
- Services - reusable business logic independent of views
- Scopes - context where the model is stored so that controllers, directives and expressions can access it
- Dependency Injection - Creates and wires objects and functions
- Templates - HTML with additional markup
- Expressions - access variables and functions from the scope
- Filters - formats the value of an expression for display to the user
- Directives - extend HTML with custom attributes and elements
- Modules - a container for the different parts of an app including controllers, services, filters, directives which configures the Injector
- HTML Compiler - parses the template and instantiates directives and expressions

# Concept



# Routing

- \$route
- \$routeProvider
- \$location
- \$locationProvider
  - html5Mode
    - AngularJS HTML5 mode reloading the page gives wrong GET request
  - modrewrite

# UI

- UI Bootstrap
- ng-grid
- ui-date
- ui-chart
- ui-layout
- angular-ui-tree
- angular-xeditable
- AngularJS Modules

# Form

- Form
- form directive
- input[checkbox]
- ngOptions
- Submitting AJAX Forms: The AngularJS Way
- AngularJS Form Validation



# i18n

- angular-translate
  - Variable replacement
  - Partial Load
- TRANSLATION AND LOCALIZATION WITH ANGULARJS PART 2
- INTERNATIONALIZATION WITH ANGULARJS

# Deployment

- Running an AngularJS App in Production
  - Disabling Debug Data
    - `$compileProvider.debugInfoEnabled(false);`
  - Strict DI Mode
    - `<div ng-app="myApp" ng-strict-di>`

# Testing

- Debugging
  - Debugging AngularJS
- Unit Testing
  - Karma
  - karma-mocha
  - karma-chai
  - Testing AngularJS Apps Using Karma
  - Testing your front end JavaScript code using mocha, chai, and sinon
- E2E Testing
  - Protractor
  - Practical End-to-End Testing with Protractor

# Resource

- Book
  - <http://www.wowebook.org/tag/angularjs>
- Online Test
  - [Plunker](#)
  - [JSFiddle](#)
- Help
  - [API](#)
  - [AngularJS mailing list](#)
  - [stackoverflow.com](http://stackoverflow.com)
  - [AngularJS Blog](#)
  - [Weekly newsletter](#)
- [AngularJS-Learning](#)