



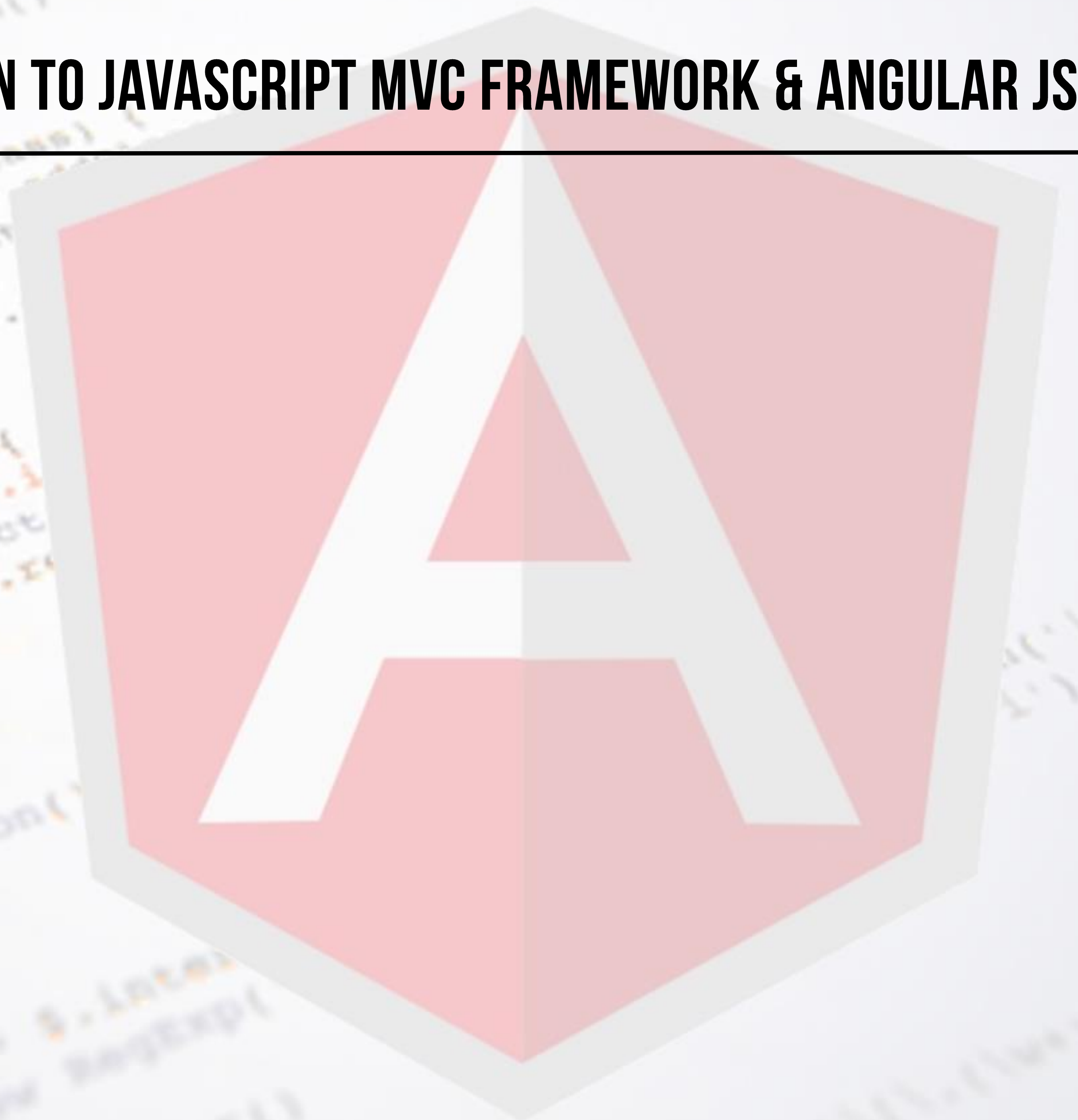
ANGULAR JS

A SINGLE PAGE APPLICATION FRAMEWORK

INTRODUCTION TO JAVASCRIPT MVC FRAMEWORK & ANGULAR JS

DAY 1

SESSION 1



INTRODUCTION TO JAVASCRIPT MVC FRAMEWORK & ANGULAR JS

DAY 1, SESSION - 1

1 | ABOUT ANGULARJS

2 | WHY AND WHERE?

3 | INTRODUCTION TO JAVASCRIPT MVC
FRAMEWORK

4 | COMPARISON BETWEEN JAVASCRIPT
FRAMEWORKS

5 | WRITE YOUR FIRST PROGRAM IN
ANGULAR JS

6 |

ABOUT ANGULAR JS

Angular JS is an open source web-application framework, specially designed for single-page web application well maintained by Google.

- Open source
- Framework not a library
- Uses jQuery's jQlite
- Contains everything you need for SPA
- Broken into components Controllers, view, models, services, etc
- MVC/MVVM Framework
- Two Way Data binding
- Enables test friendly code

WHY AND WHERE?

- **Why Angular JS**
 - **Two-Way Data Binding**
 - **Largest community**
 - **MVC**
 - **Automatic Dirty Checking**
 - **Testability**

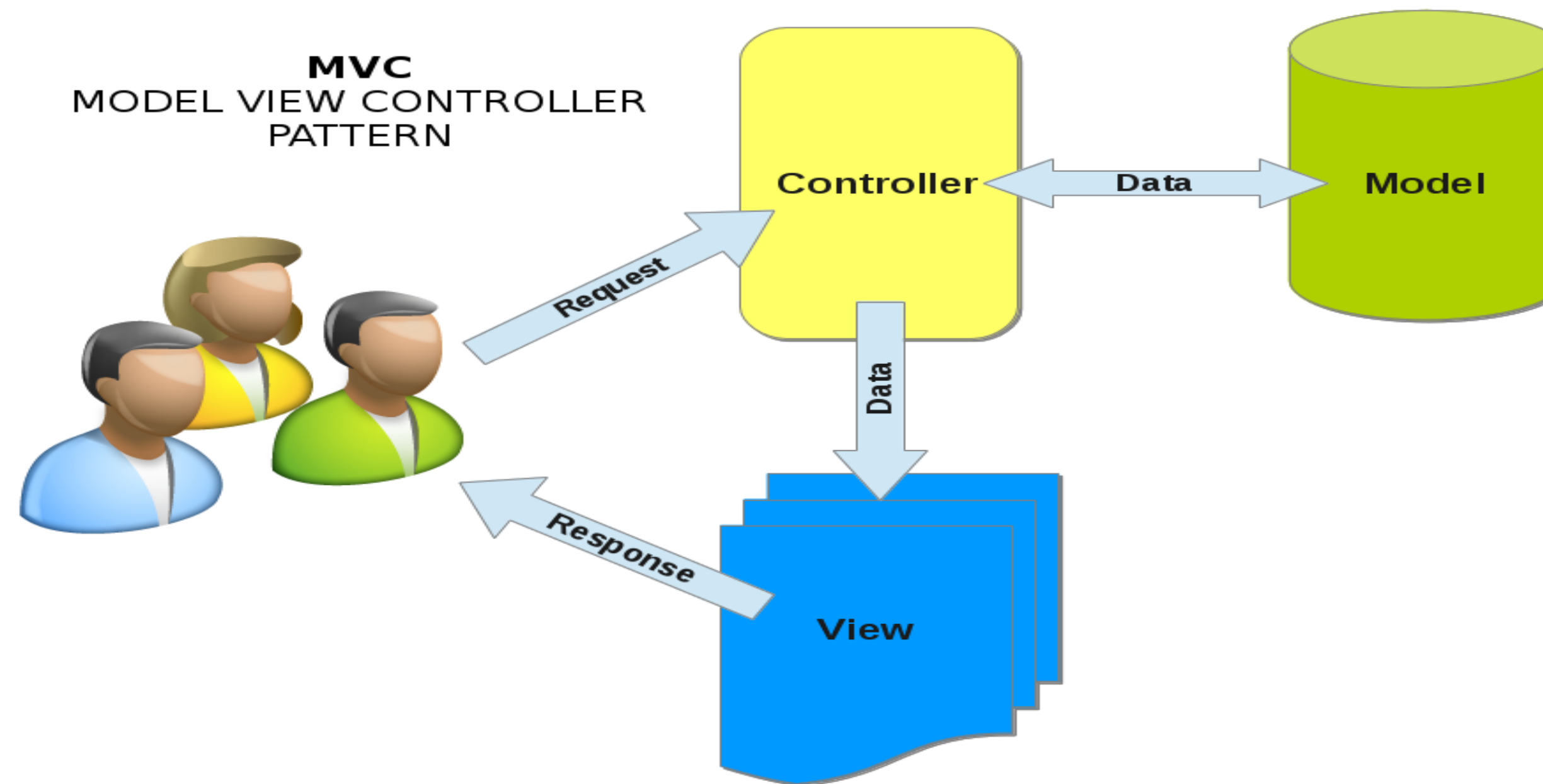
- **Where**
 - **You can use it as SPA or Non-SPA both type of application. Few of the use case listed bellow.**
 - **Data driven client side SPA**
 - **For multi page application having huge user interaction on one page**

INTRODUCTION TO JAVASCRIPT MVC FRAMEWORK

MVC EXPLAINED

MVC stands for Model View Controller.

- Model: Which holds the business logic and relevant data for the application.
- View: Responsible for presenting the model data which communicated via controller and interact with end user.
- Controller: It plays the role for intermediate communicator between Model and View



COMPARISON BETWEEN JAVASCRIPT FRAMEWORKS

Key	Angular JS	Backbone JS	Ember JS
Size (Minified Version)	144kb	7.2kb	422KB
Templating	HTML	None/User Dependent	Handlebar
Data Binding	Two-way	One-way	One-way

WRITE YOUR FIRST PROGRAM IN ANGULAR JS

DAY 1, SESSION-1, LAB-1

CREATE SIMPLE HTML PAGE

Include angular framework into our html , for that we can either include angular latest version cdn path with script or we can download from angular website and keep locally

1

Create an html file home.html from basic html syntax which contain an input box to enter user name and an h1 tag which hold the user name for now it is just static one later on we bind angular to make it dynamic.

2

LOADING ANGULAR

FINAL CODE AFTER STEP 1 AND 2

DAY 1, SESSION-1, LAB-1

```
<!doctype html>
<html lang="en">
<head>
<title>First Angular JS Application</title>
</head>
<body>
<input type="text" placeholder="Enter a name here">
<h1>Hello, Mr Kumar!</h1>
<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.4
.6/angular.min.js"></script>
</body>
</html>
```

MODEL DEFINITION

3

Define a model **name** using ng-model directive

Bind the value of above model defined using ng-bind directive.

4

DATA BINDING

FINAL CODE AFTER STEP 1, 2, 3 AND 4

DAY 1, SESSION-1, LAB-1

```
<!doctype html>
<html lang="en">
<head>
<title>First Angular JS Application</title>
</head>
<body>
<input type="text" placeholder="Enter a name here" ng-model="name">
<h1>Hello, Mr <span ng-bind="name" ></span>!</h1>
</body>
<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.4.6/angular.min.js"></script
</html>
```

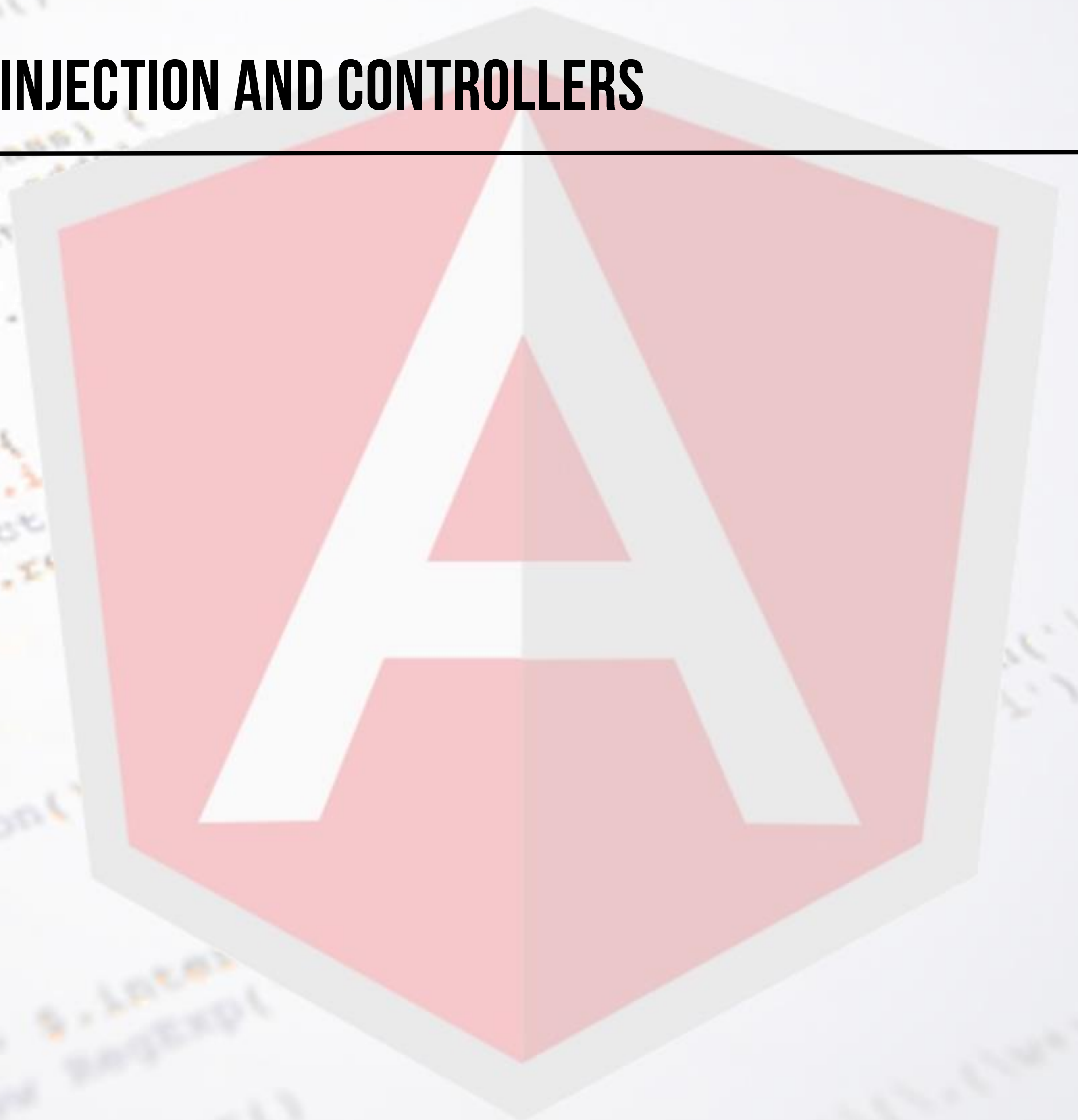


ANY QUESTIONS?

DEPENDENCY INJECTION AND CONTROLLERS

DAY 1

SESSION 2



DEPENDENCY INJECTION AND CONTROLLERS

DAY 1, SESSION - 2

1 | CREATE CONTROLLER

2 | TWO WAY BINDING

3 | SHARING DATA BETWEEN CONTROLLERS

4 | SCOPE INHERITANCE

5 | DEPENDENCY INJECTION

6 |

CREATING CONTROLLERS

Angular JS is an open source web-application framework, specially designed for single-page web application well maintained by Google.

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