

Build Modern Web Applications with

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# Understand AngularJS

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- ❖ **Fundamental HTML and Javascript Concepts**
- ❖ **Javascript Principles**
- ❖ **How AngularJS works**
- ❖ **Hands-on examples and mini-projects**

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# AngularJS Concepts and Vocabulary

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- ❖ **Concept or Terminology**
- ❖ **Definition**
- ❖ **Detailed Explanation**



The Problem(s) AngularJS is  
trying to solve

Model, View, Whatever...



```
var shape = "angular";
```

Model

**MV\***

Controller,  
View-Models,  
Whatever...

View

`<h2>angular</h2>`

# Concept Review-HTML

## Custom Attributes



# Concept Review-Javascript

## Global Namespace



# Modules, Apps and Controllers

# Concept Review - Javascript Dependency Injection

# The Scope Service



# Concept Review - Javascript Functions and Strings

# Angular Dependency Injection

# Getting Other Services



# Concept Review - Javascript Arrays and Functions

# Dependency Injection and Minification

Session-2:

Data Binding and Directives

Single Page Applications



# Scope and Interpolation

# Directives and Two Way Binding

# Directive

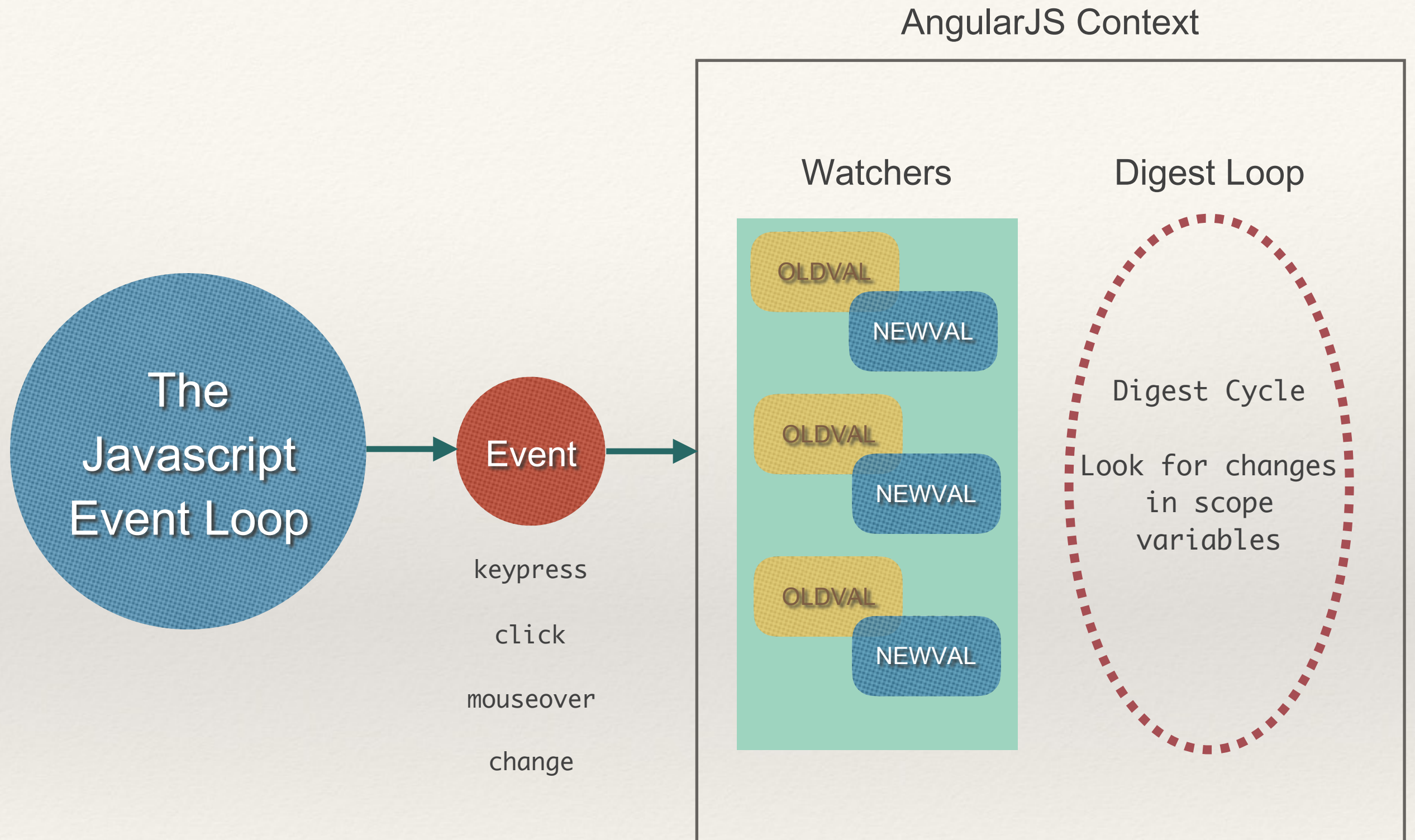
An instruction to Angular JS to manipulate a piece of the DOM

E.G. ADD A CLASS, HIDE THIS, SHOW THIS, CREATE THIS ETC.



# Concept Review - Javascript Event Loop

# Watchers and the Digest Loop





# Common Directives

# Concept Review - The XMLHttpRequest Object

# External Data and \$http



# Concept Review - AngularJS - Multiple Controllers, Multiple Views

# Concept Review - HTML5 and Javascript

## - Single Page Apps and the Hash

## Session - 3

# Custom Services, Custom Directives



# Singletons

# Creating a Custom Service

# HTML - Reusable Components



# Angular Variable Names and Normalization

# Creating a Directive

# Directive Templates



## Session 4

Directives - Scope

Directives - Compile

Directives - Link

Directives - Transclusion

Project Specification: Building an AngularJS App

Directives - Scope (@, =, &)

# Directives - Compile



# Directives - Link

# Directives - Transclusion

# Building an AngularJS App - Specifications



# Session 5

## Angular JS Project Specifications

Review of topics needed for the  
project

# AngularJS Project - Promotions Tracker

Start:

User Login

Review the list of new Promo Codes proposed for the day

Review the new promo codes against existing codes using a table

Filter elements on the table based on date, rewards and value

Accept / Reject the promo codes

Submit the codes - which will post them to the respective data stores

Application will take user back to the dashboard, which should show updated values.

End

# Review of topics required for the project

- ❖ Review the BootStrap template
- ❖ Review the folder structure of the project
- ❖ Identify the view elements to be used
- ❖ Consider the model objects for the view elements identified
- ❖ Discuss available Services
- ❖ Discuss new services to be created