Angular 2 for Beginners

SoCal Code Camp @UCSD

Ogun TIGLI
otigli@gmail.com

26 June 2016/Sun

What is it?

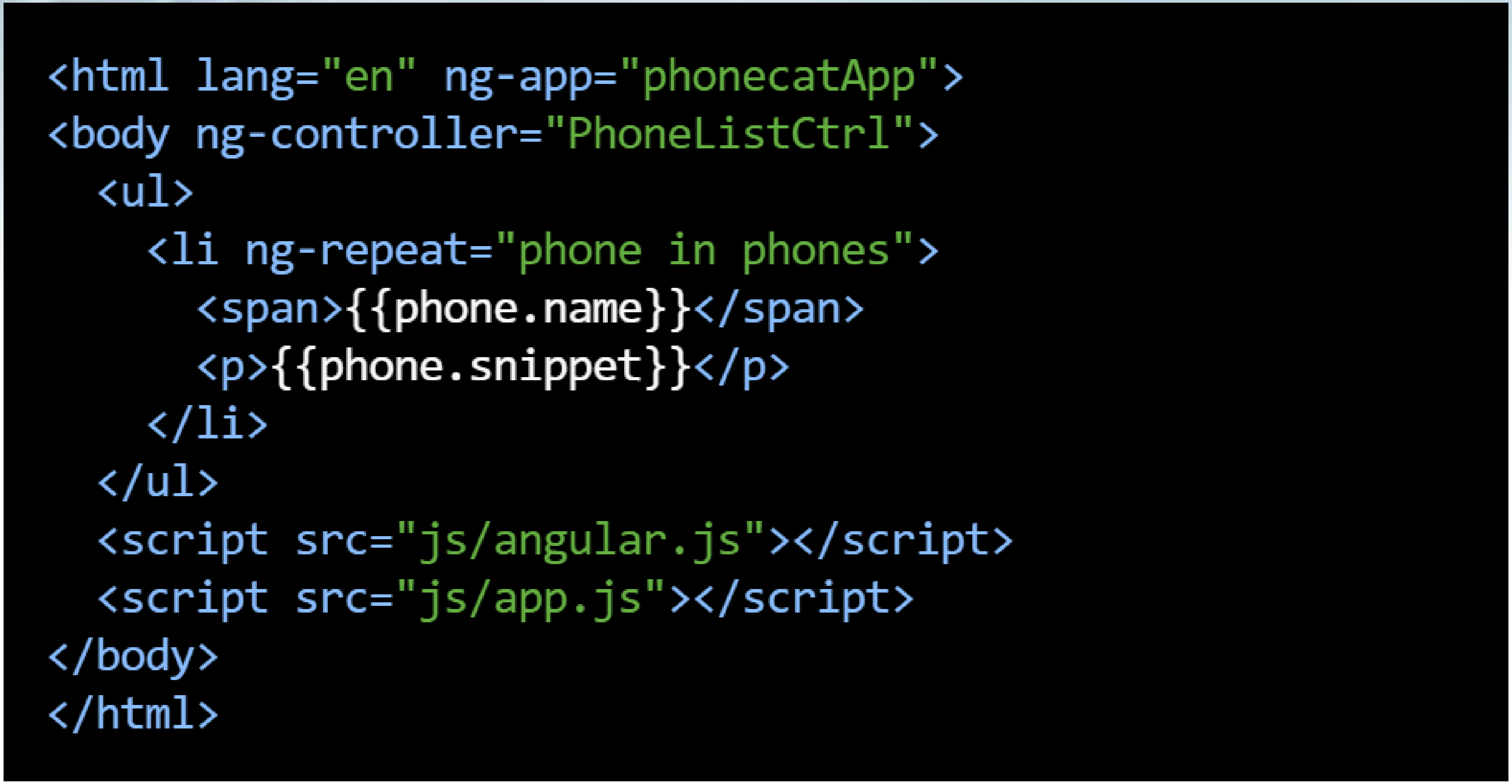
AngularJS is a client side web application framework that addresses the challenges of the single page application development process.

Angular 2 is the new version for this popular framework which comes with many fundamental changes. This session will be an introduction to the ng-2 for the beginners.

Currently in RC 3

Very soon it will be available for production.

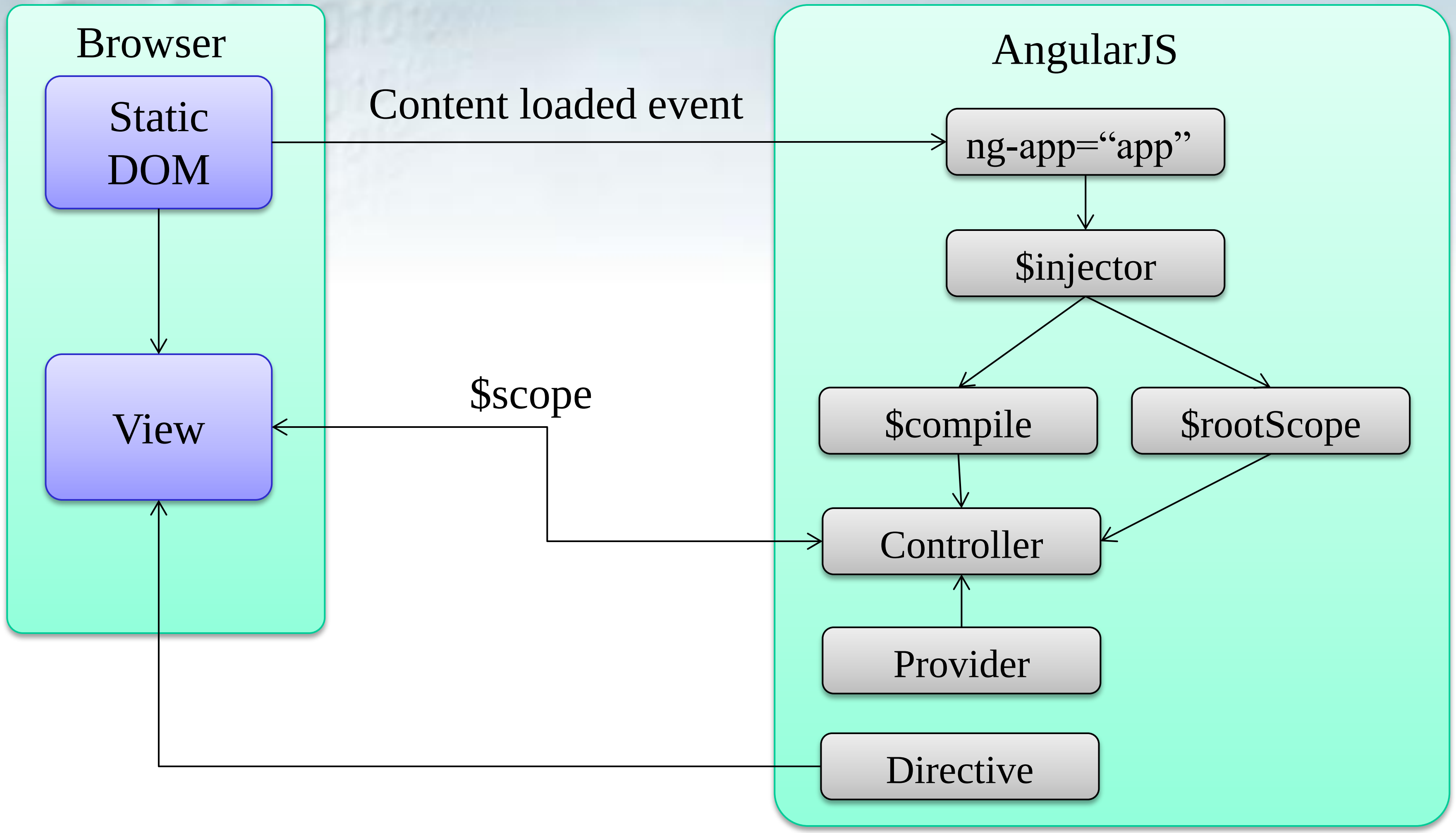
Remember Angular 1?



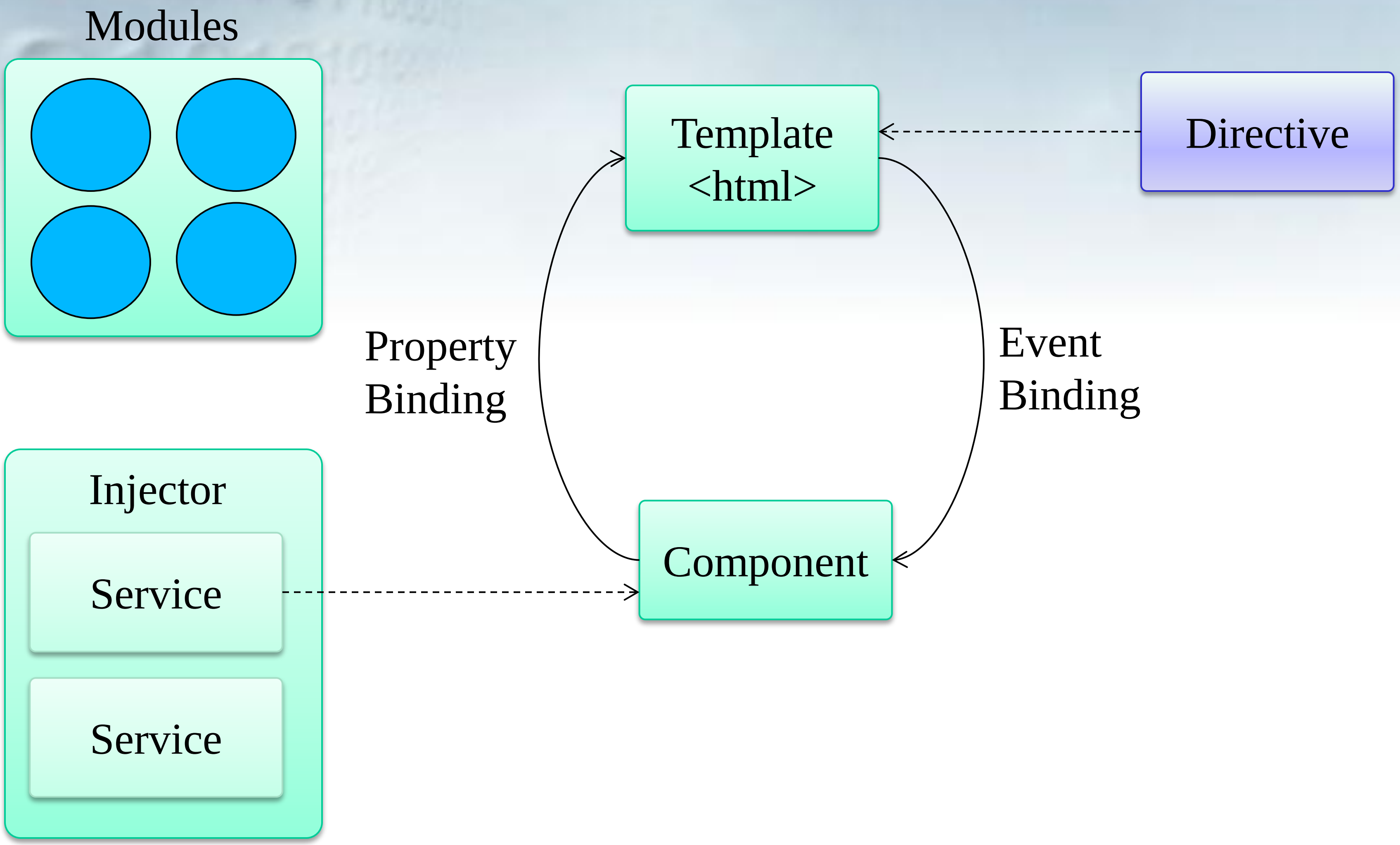
```
<html lang="en" ng-app="phonecatApp">
<body ng-controller="PhoneListCtrl">
  <ul>
    <li ng-repeat="phone in phones">
      <span>{{phone.name}}</span>
      <p>{{phone.snippet}}</p>
    </li>
  </ul>
  <script src="js/angular.js"></script>
  <script src="js/app.js"></script>
</body>
</html>
```

* From https://docs.angularjs.org/tutorial/

Angular 1 Architecture



Angular 2 Architecture



Using Components

Components are the main building blocks for the UI

Angular 1

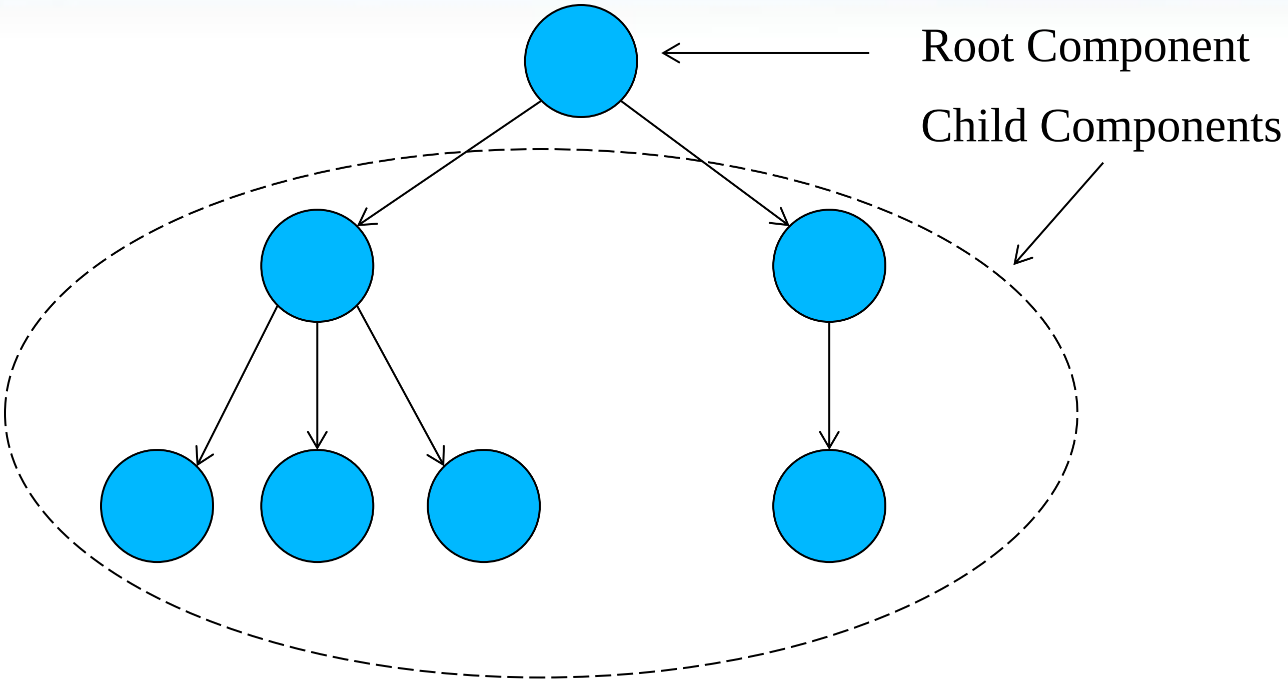
```
angular.module(‘app’, [‘some.component’]);
```

Angular 2

```
import {Component} from ‘@angular/core’;
Import {SomeComponent} from ‘./some.component’;
```

Components in Angular 2

- Angular 2 app is a tree of components
- It should have one root component (main component)
- Component is the execution context for the template



Event Bindings

- <button (click)=“handleClick1($event)”>OK1</button>

- <button (^click)=“handleClick2($event)”>OK2</button>
  - Bubble up the event

- <button on-click=“handleClick3($event)”>OK3</button>
  - Alternative notation

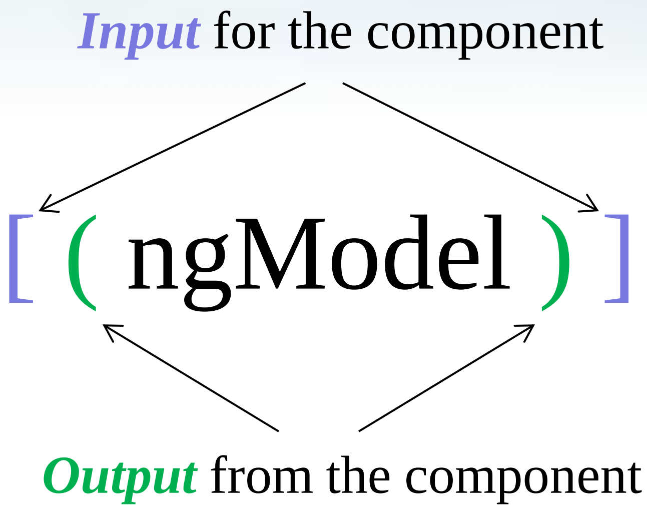
- Other events are also supported like
  - doubleclick
  - keydown, keyup
  - mouseenter, mouseover, mouseleave
  - etc.

Property Binding

- Data binding
    - <some-comp [data]=“myData”></some-comp>
- Class binding
    - <div [class]=‘some-class’>Content</div>
- Attribute binding
    - <span [attr.someattr]=‘val’>Info</span>
- Style binding
    - <div [style.color]=‘highlighted ? ‘yellow’ : ‘blue’ />

Two-way Data Binding

<some-comp [(ngModel)]=“some.data” />



Input for the component

[(ngModel)]

Output from the component

Input & Output Variables

```
<todo-item [todo]=‘currentTodo’
               (deleted)=‘handleDeletion($event)’ />
```

```
export class TodoItem {
    @Input() todo: Todo;
    @Output() deleted = new EventEmitter<Todo>();
}
```

Demos

Questions ?

Questions & Answers

PS: Sample code and presentation are provided at the following GitHub page:
https://github.com/omt66/demos-socal