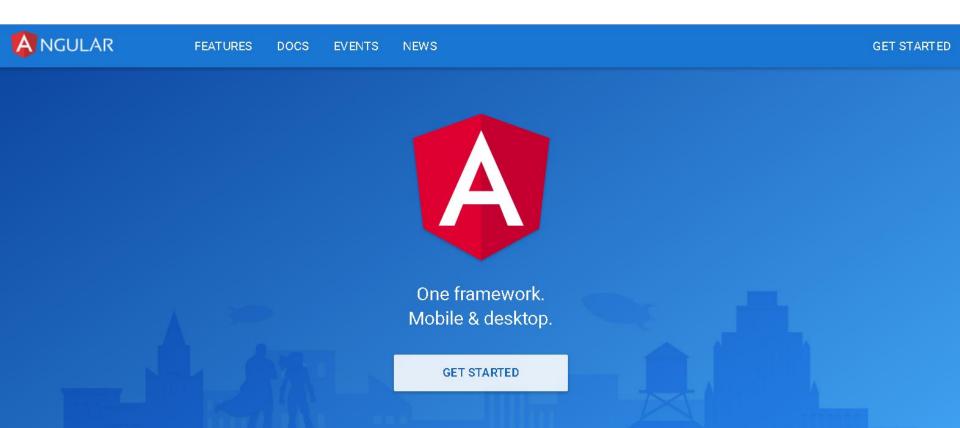






Angular 2

https://angular.io







Angular 2



Agenda

Introduction & Big Picture
Difference between AngularJS
Architecture
Internals
Using Angular 2 (ng-cli)
Bootstrap process





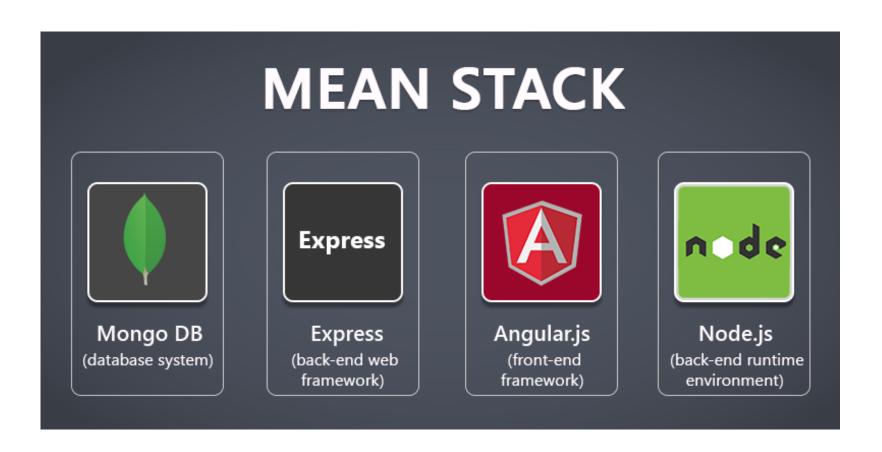
Introduction

Front-end technology Modern web practices JS SPA framework





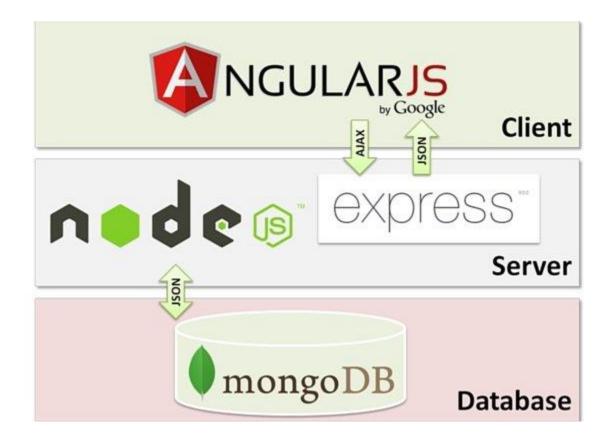
MEAN STACK







MEAN STACK







AngularJS

JS framework SPA By Google **Open Source** Many applications Directives, Controllers, Services, Routing, \$scope, ng-if, ng-for





Angular 2

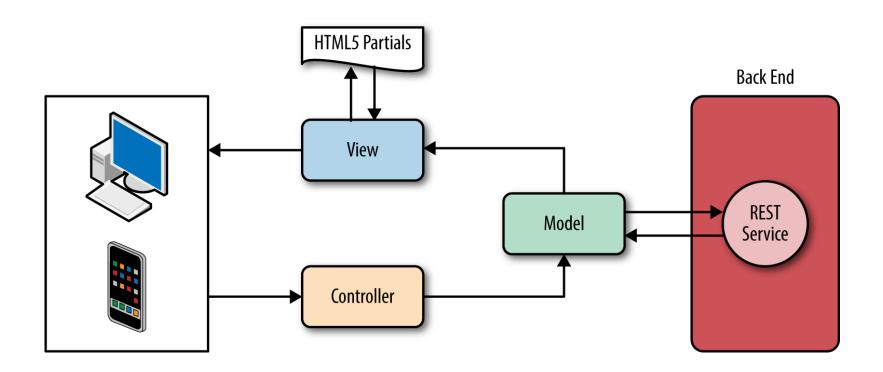
JS framework
SPA
Fast / Fluid Experience
Best Practices
From Google
Great Community
Many resources
Open Source





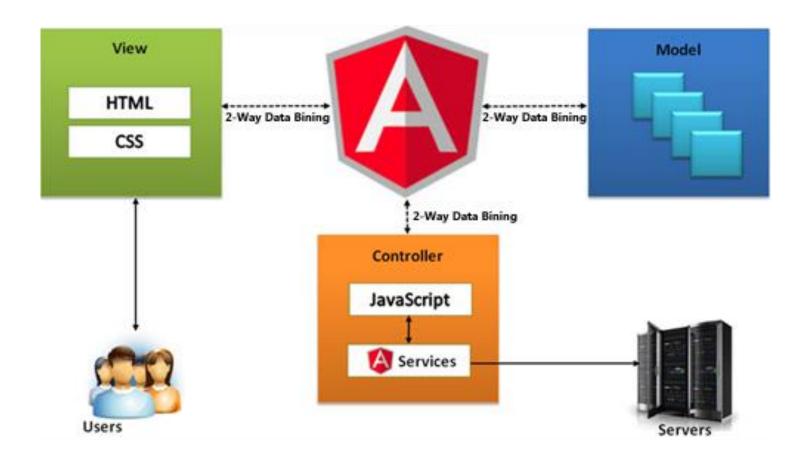
Architecture

MVC Pattern

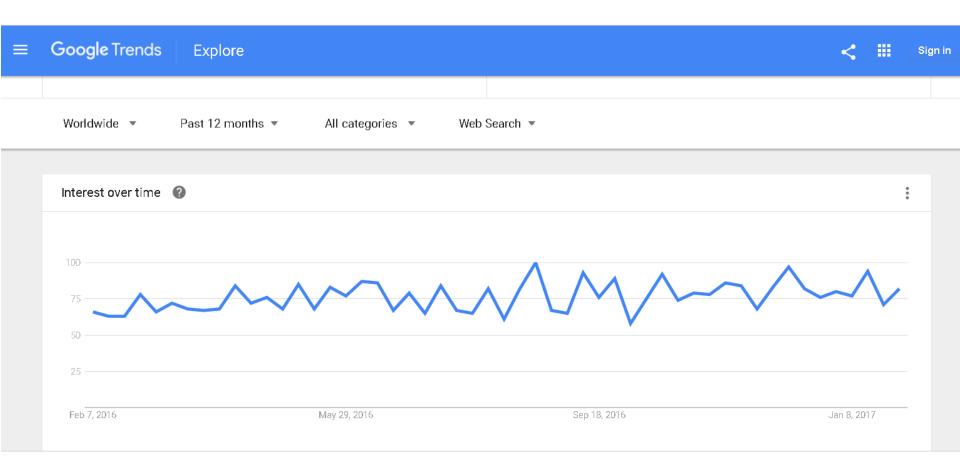




MVC Implementation











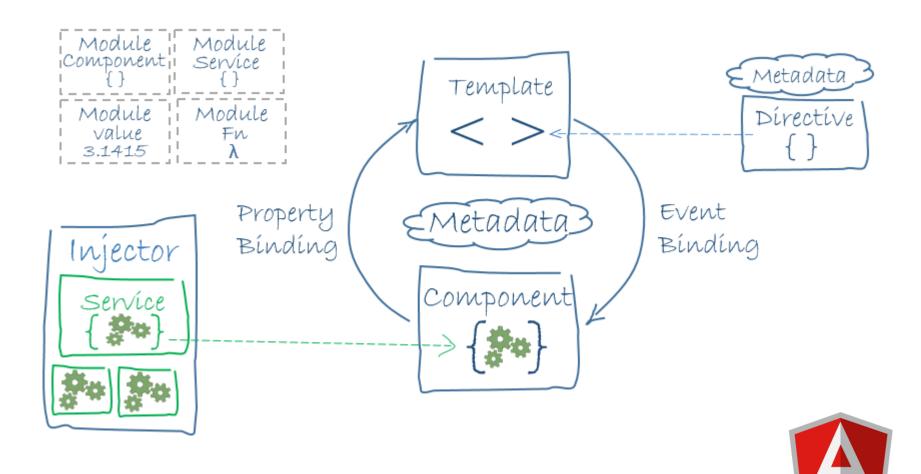
Angular 2

Components
Directives
Dependency Injection
Interpolation
2-Way binding
Services
Promises, Observables
Routing



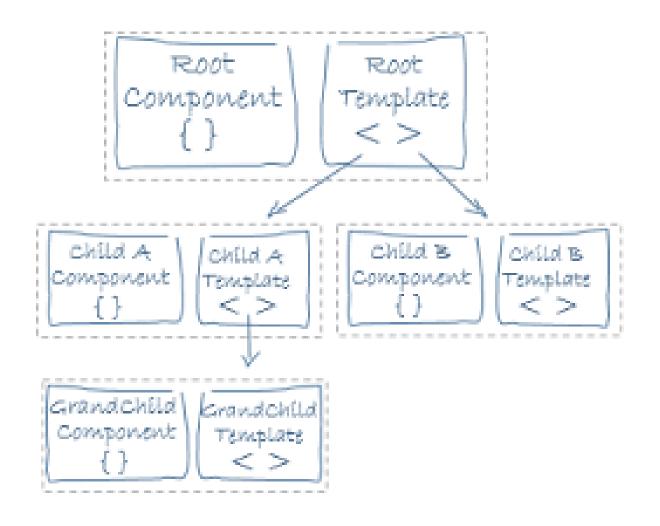


Architecture





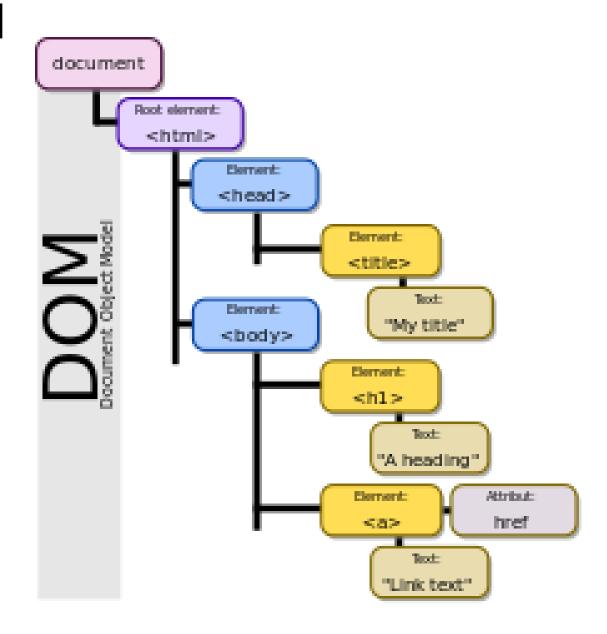
App Components







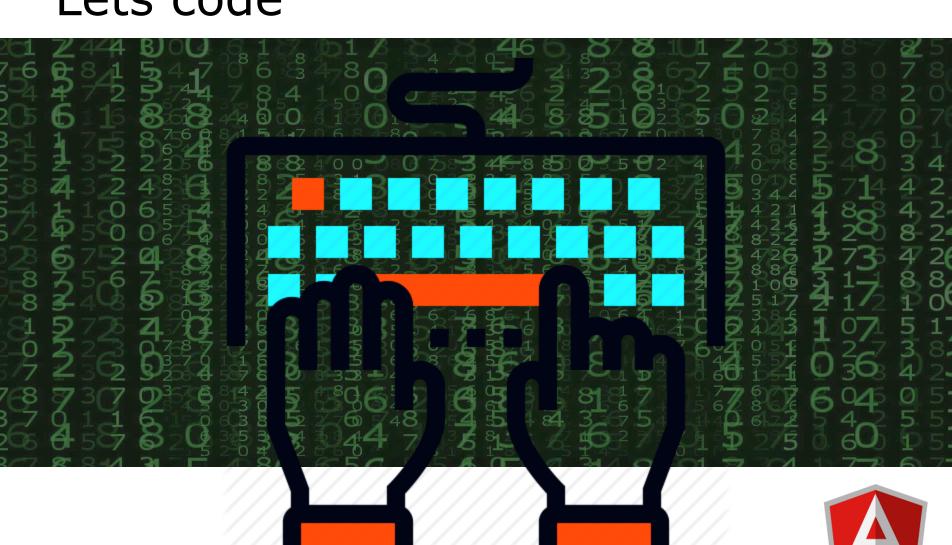
DOM







Lets code







Hello Angular!

Project structure npm start
Great DX !!
Bootstrap App
Root component





Project Structure

- 📜 config
- e2e
- node_modules
- public
- src
- 📜 typings
- .editorconfig
- gitignore.
- angular-cli.json
- angular-cli-build.js
- 📈 package.json
- README.md
- 🔟 tslint.json
- typings.json





app.component.ts

```
import { Component } from '@angular/core';
@Component({
     selector: 'app-root',
     templateUrl: './app.component.html',
     styleUrls: ['./app.component.css']
})
export class AppComponent {
     title = 'PayPal App';
```





app.component.html

```
<h1>
{{title}}
</h1>
```



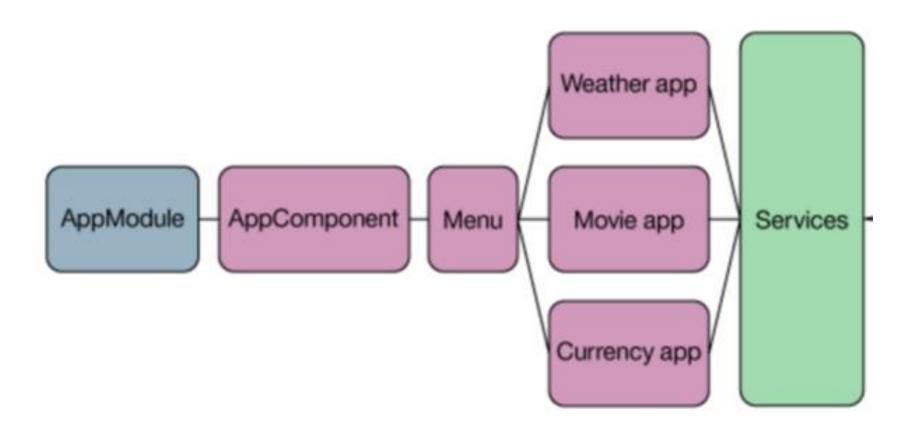


app.component.css

```
#Place css for component
h1 {
     color: red;
}
```









WebApp Weather	Currency Movie	
Yahoo! Weather		
	Enter City name	
	Enter State. Example CA for California	
	Submit	
	City, State, Country:	
	Current Condition : Current Temperature :	
	Tabel II of all the continuous trins buting Weather Marie and Commencia.	
i otal # of all the service requests including weather, Movie, and Currency is:		
	Current Condition:	



Currency Exchange Rates

Enter Currency Symbol. Example: GBP(AUD,INR)...

Rate Details

Exchange rate relative to Euro in a JSON format::

Total # of all the service requests including Weather, Movie, and Currency is: 0



WebApp Weather Currency Movie Open Movie Database Enter Movie name ... Movie Details Poster Title: Plot: Actors: Directed by : Rated: Release Date : Total # of all the service requests including Weather, Movie, and Currency is: 0



Adding new component

ng g c Menu -is --spec false --flat





Interpolation

```
{{ property }}
```

Update DOM value using Component property





Component decorator

```
@Component({
   selector: 'my-app',
   templateUrl: '/app/app.component.html'
})
```

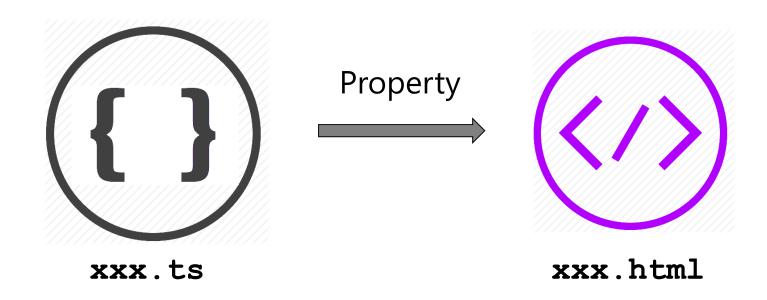




Interpolation

Property binding

{{value}}



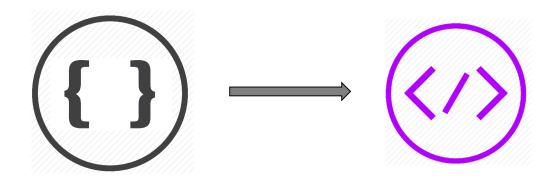




Property binding

```
<img src="{{ imageUrl }}" />
<img [src]="imageUrl" />
<img bind-src="imageUrl" />
```

We will see forms 1 often, 2 we will see an example in YouTube app

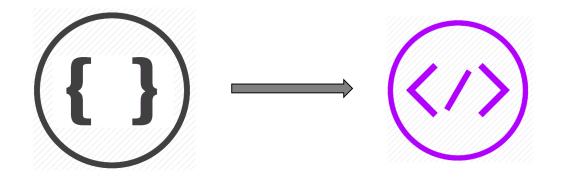






Class binding

```
<button
    class="btn btn-primary"
    [class.active]="expression" >
    Submit
</button>
```

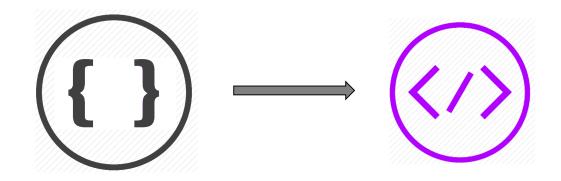






Style binding

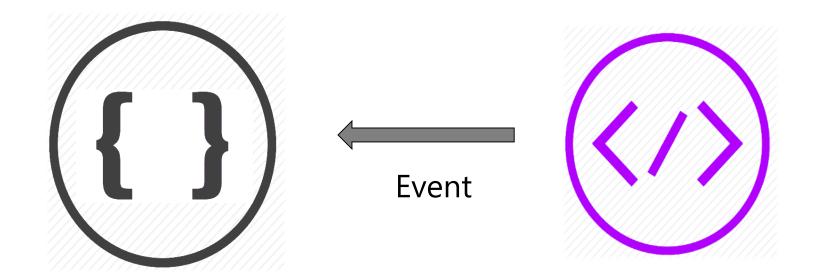
```
<button
    class="btn btn-primary"
    [style.backgroundColor]=
     "isActive ? 'blue' : 'grey'">
     Submit
</button>
```







Event binding

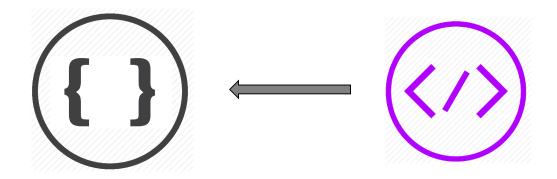






Event binding

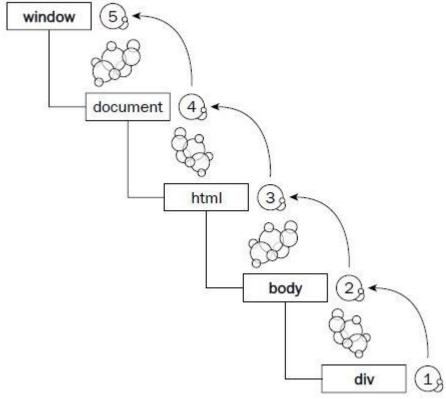
```
<button
    class="btn btn-primary"
        (click)= "onSubmit()">
        Submit
</button>
```

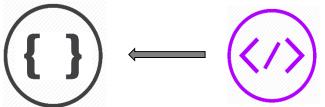






Event bubbling



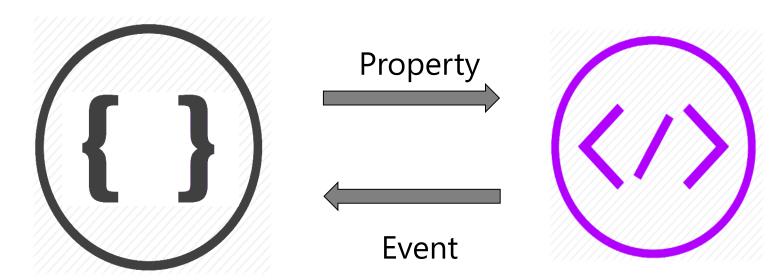






2-Way binding

ngModel

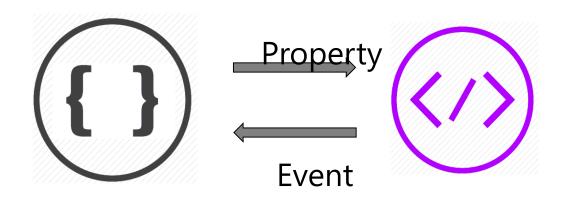






2-Way binding

```
<input type="text"
  [value]="exp1"
  (input)="exp2" />
```



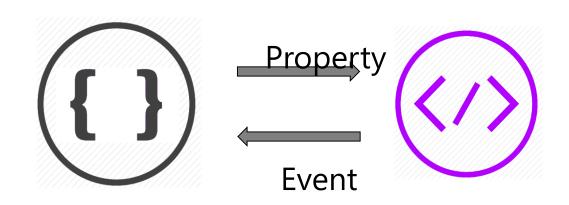




2-Way binding

```
<input type="text"
  [(ngModel)]="property" />
```

Note: FormsModule is needed!









That was a very gentle intro to Forms...



Summary

Interpolation

```
<h1>{{ title }}</h1>
```

Property binding

```
<img [src]="imageUrl" />
<img bind-src="imageUrl" />
```

Class binding

Style binding

```
<button [style.backgroundColor]="isActive ? 'blue' : 'gray'">
```





Summary

Event binding

```
<button (click)="onClick($event)">
<button on-click="onClick($event)">
```

Two-way binding

```
<input type="text" [(ngModel)]="firstName">
<input type="text" bindon-ngModel="firstName">
```





Complex Class

```
class Child {
   property:Type;
   constructor(arg1:Type) {
     super(arg1);
   methodProperty:(arg1:Type) => ReturnType;
```





Further Reading:

https://angular.io





Thank You!



