

# Angular - One Framework

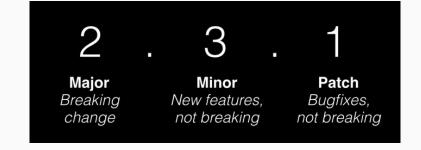
By Cedric Oswald

## Angular

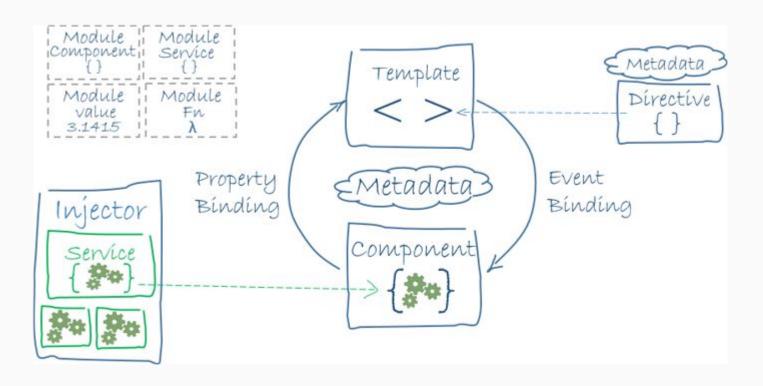
- Open Source in 2014 by Google as AngularJS, now just Angular...
- JavaScript Web Application Framework
- TypeScript & JavaScript
- Usable for Mobile & Desktop Apps
- Current Version 4.xxx

## Semantic Versioning

- 2 releases per year
- No full rewrite anymore
- Detailed changelogs
- Upgrade guides



#### Overview



### Modules

- @NgModule
- Help to organize large applications
- Imports other modules
- Consists of view components
- Every app has a root module
- Exposes services for Dependency Injection

```
import { HomeComponent } from './home.component';
@NgModule({
    imports: [
        BrowserModule,
        AppRoutingModule,
        HttpModule,
        LibModule
    declarations: [
        LoginComponent,
        AppComponent,
        HomeComponent
    bootstrap: [
        AppComponent
    providers: [
        TableService.
        AuthService,
export class AppModule {}
```

## Components

- @Component
- Plain TypeScript classes
- Responsible for view logic
- Every component has a template
- Templates use Angular template syntax

```
import { Component } from '@angular/core';
import { User } from './lib/user';
@Component({
    selector: 'home',
   template:
       <h1>Welcome to the home component</h1>
       {p>{{message | json}}
   styles: ['home.component.scss']
export class HomeComponent {
   private message: string;
   constructor() {}
```

## Directives & Pipes

@Directive: Add behaviour/appearance

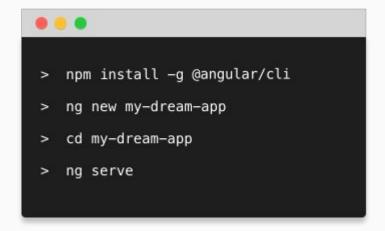
- @Pipe: Transform input to useful output
- Similar to unix pipes

### Toolchain

- Dependency Management npm, yarn ...
- Compile TypeScript, Stylesheets, templates, assets tsc, ngc, scss, less ...
- Tests karma, jasmine, Protractor ...
- Post Processing & Bundling webpack, grunt, gulp, SystemJS ...
- Development Webserver for prod/dev environments, live reload ...

## **Angular CLI**

- Fast and easy way to get started
- Based on webpack
- Configurable via .angular-cli.json
- Supports different environments



Magic ?

{{ Demo }}