Cheat Sheet



import { platformBrowserDynamic } from
'@angular/platform-browser-dynamic';

Import

platformBrowse
from @angular/
browser-dynami

platformBrowserDynamic().bootstrapModule(AppModule);

Bootstraps the apusing the root co from the specifie

NgModule.

DETAILS

```
import {
NgModule } from
'@angular/core';
```

```
Import NgModule from @angular/core.
```

```
@NgModule({
   declarations:
...,
   imports: ...,
   exports: ...,
   providers: ...,
   bootstrap: ...
})
class MyModule
{}
```

Defines a module that contains components, directives, pipes, and providers.

```
declarations: [
MyRedComponent,

MyBlueComponent,
    MyDatePipe
]
```

List of components, directives, and pipes that belong to this module.

DETAILS

```
imports: [
   BrowserModule,

SomeOtherModule
]
```

List of modules to import into this module. Everything from the imported modules is available to declarations of this module.

```
exports: [
MyRedComponent,
    MyDatePipe
]
```

List of components, directives, and pipes visible to modules that import this module.

```
providers: [
   MyService,
   { provide: ... }
]
```

List of dependency injection providers visible both to the contents of this module and to importers of this module.

bootstrap:
[MyAppComponent]

List of components to bootstrap when this module is bootstrapped.

DETAILS

<input [value]="firstName">

Binds property value to the result of expression firstName.

<div [attr.role]="myAriaRole">

Binds attribute role to the result of expression myAriaRole.

<div [class.extrasparkle]="isDelightful">

Binds the presence of the CSS class extra-sparkle on the element to the truthiness of the expression isDelightful.

<div

[style.width.px]="mySize">

Binds style property width to the result of expression mySize in pixels. Units are optional.

<button

(click)="readRainbow(\$event)">

Calls method readRainbow when a click event is triggered on this button element (or its children) and passes in the event object.

<div title="Hello
{{ponyName}}">

Binds a property to an interpolated string, for example, "Hello Seabiscuit". Equivalent to:

<div [title]="'Hello ' +
ponyName">

DETAILS

```
Hello {{ponyName}}
```

Binds text content to an interpolated string, for example, "Hello Seabiscuit".

```
<my-cmp [(title)]="name">
```

Sets up two-way data binding. Equivalent to:

```
<my-cmp [title]="name"
(titleChange)="name=$event">
```

```
<video #movieplayer ...></video>
<button
(click)="movieplayer.play()">
    Play
</button>
```

Creates a local variable movieplayer that provides access to the video element instance in data-binding and event-binding expressions in the current template.

```
...
```

The asterisk (*) character turns the current element into an embedded template. Equivalent to:

DETAILS

```
    Card No.: {{cardNumber |
    myCardNumberFormatter}}
```

Transforms the current value of expression cardNumber using the pipe called myCardNumberFormatter.

```
 Employer:
{{employer?.companyName}}
```

The safe navigation operator (?) means that the employer field is optional and if undefined, the rest of the expression should be ignored.

An SVG snippet template needs an svg: prefix on its root element to disambiguate the SVG element from an HTML component.

An <svg> root element is detected as an SVG element automatically, without the prefix.

DETAILS

```
import { CommonModule } from
'@angular/common';
```

```
Import | CommonModule | from | @angular/common |.
```

```
<section *ngIf="showSection">
```

Removes or recreates a portion of the DOM tree based on the showSection expression.

```
*ngFor="let item of list">
```

Turns the li element and its contents into a template, and uses that to instantiate a view for each item in list.

Conditionally swaps the contents of the div by selecting one of the embedded templates based on the current value of

```
conditionExpression.
```

DETAILS

Binds the presence of CSS classes on the element to the truthiness of the associated map values. The right-hand expression should return

```
{class-name: true/false}
map.
```

```
<div [ngStyle]="{'property':
'value'}">
<div [ngStyle]="dynamicStyles()">
```

Allows you to assign styles to an HTML element using CSS. You can use CSS directly, as in the first example, or you can call a method from the component.

FORMS DETAILS

```
import { FormsModule }
from '@angular/forms';
```

```
Import FormsModule from
@angular/forms .
```

```
<input
[(ngModel)]="userName">
```

Provides two-way data-binding, parsing, and validation for form controls.

DETAILS

```
import {
Directive, ... }
from
'@angular/core';
```

```
Import Directive, … from
@angular/core';
```

```
@Component({...})
class
MyComponent() {}
```

Declares that a class is a component and provides metadata about the component.

```
@Directive({...})
class
MyDirective() {}
```

Declares that a class is a directive and provides metadata about the directive.

```
@Pipe({...})
class MyPipe()
{}
```

Declares that a class is a pipe and provides metadata about the pipe.

```
@Injectable()
class
MyService() {}
```

Declares that a class can be provided and injected by other classes. Without this decorator, the compiler won't generate enough metadata to allow the class to be created properly when it's injected somewhere.

ΓΙΟΝ

DETAILS

```
@Directive({
   property1:
   value1,
   ...
})
```

Add property1 property with value1 value to Directive.

```
selector:
'.cool-
button:not(a)'
```

Specifies a CSS selector that identifies this directive within a template. Supported selectors include element, <a href="mailto:[attribute]], .class, and <a href="mailto:not(). Does not support parent-child relationship selectors.

```
providers: [
   MyService,
   { provide: ...
}
```

List of dependency injection providers for this directive and its children.

RATION

DIRECTIVE, SO THE

@DIRECTIVE CONFIGURATION APPLIES TO

COMPONENTS AS WELL

DETAILS

moduleId: module.id

If set, the templateUrl and styleUrl are resolved relative to the component.

viewProviders: [MyService,
{ provide: ... }]

List of dependency injection providers scoped to this component's view.

template: 'Hello {{name}}'
templateUrl: 'mycomponent.html'

Inline template or external template URL of the component's view.

```
styles: ['.primary {color:
red}']
styleUrls: ['my-
component.css']
```

List of inline CSS styles or external stylesheet URLs for styling the component's view.

DRS FOR DIRECTIVES AND

DETAILS

```
import { Input, ... } from
'@angular/core';
```

```
Import Input, ... from
@angular/core.
```

```
@Input() myProperty;
```

Declares an input property that you can update using property binding (example:

```
<my-cmp
[myProperty]="someExpression"&gt; ).
```

```
@Output() myEvent = new
EventEmitter();
```

Declares an output property that fires events that you can subscribe to with an event binding (example: <my-cmp (myEvent)="doSomething()">).

```
@HostBinding('class.valid')
isValid;
```

Binds a host element property (here, the CSS class valid) to a directive/component property (isValid).

```
@HostListener('click',
['$event']) onClick(e) {...}
```

Subscribes to a host element event (click) with a directive/component method (onClick), optionally passing an argument (\$event).

```
@ContentChild(myPredicate)
myChildComponent;
```

Binds the first result of the component content query (myPredicate) to a property (myChildComponent) of the class.

DRS FOR DIRECTIVES AND

DETAILS

@ContentChildren(myPredicate)
myChildComponents;

Binds the results of the component content query (myPredicate) to a property (myChildComponents) of the class.

@ViewChild(myPredicate)
myChildComponent;

Binds the first result of the component view query (myPredicate) to a property (myChildComponent) of the class. Not available for directives.

@ViewChildren(myPredicate)
myChildComponents;

Binds the results of the component view query (myPredicate) to a property (myChildComponents) of the class. Not available for directives.

NENT CHANGE

CLE HOOKS

DETAILS

(IMPLEMENTED AS CLASS METHODS)

constructor(myService:
MyService, ...) { ... }

Called before any other lifecycle hook. Use it to inject dependencies, but avoid any serious work here.

ngOnChanges(changeRecord)
{ ... }

Called after every change to input properties and before processing content or child views.

ngOnInit() { ... }

Called after the constructor, initializing input properties, and the first call to ng0nChanges.

ngDoCheck() { ... }

Called every time that the input properties of a component or a directive are checked. Use it to extend change detection by performing a custom check.

ngAfterContentInit() { ...
}

Called after ngOnInit when the component's or directive's content has been initialized.

ngAfterContentChecked() {
... }

Called after every check of the component's or directive's content.

NENT CHANGE

CLE HOOKS

DETAILS

(IMPLEMENTED AS CLASS METHODS)

ngAfterViewInit() { ... }

Called after ngAfterContentInit when the component's views and child views / the view that a directive is in has been initialized.

ngAfterViewChecked() { ...
}

Called after every check of the component's views and child views / the view that a directive is in.

ngOnDestroy() { ... }

Called once, before the instance is destroyed.

DEPENDENCY INJECTION CONFIGURATION

DETAILS

```
{ provide: MyService,
useClass: MyMockService
}
```

Sets or overrides the provider for MyService to the MyMockService class.

{ provide: MyService,
useFactory: myFactory }

Sets or overrides the provider for MyService to the myFactory function.

{ provide: **MyValue**, useValue: 41 }

Sets or overrides the provider for MyValue to the value 41.

ION

```
import { Routes, RouterModule, ... } from '@angular/router';
```

```
const routes: Routes = [
    { path: '', component: HomeComponent },
    { path: 'path/:routeParam', component: MyComponent },
    { path: 'staticPath', component: ... },
    { path: '**', component: ... },
    { path: 'oldPath', redirectTo: '/staticPath' },
    { path: ..., component: ..., data: { message: 'Custom' } }
]);
const routing = RouterModule.forRoot(routes);
```

```
<router-outlet></router-outlet>
<router-outlet name="aux"></router-outlet>
```

to main content

```
<a routerLink="/path">
<a [routerLink]="[ '/path', routeParam ]">
<a [routerLink]="[ '/path', { matrixParam: 'value' } ]">
<a [routerLink]="[ '/path' ]" [queryParams]="{ page: 1 }">
<a [routerLink]="[ '/path' ]" fragment="anchor">
```

```
<a [routerLink]="[ '/path' ]" routerLinkActive="active">
```

```
<a [routerLink]="[ '/path' ]" routerLinkActive="active"
ariaCurrentWhenActive="page">
```

ION

```
class CanActivateGuard implements CanActivate {
   canActivate(
      route: ActivatedRouteSnapshot,
      state: RouterStateSnapshot
   ):
Observable<boolean|UrlTree>|Promise<boolean|UrlTree>|boolean|UrlTree
{ ... }
}
{ path: ..., canActivate: [CanActivateGuard] }
```

```
class CanDeactivateGuard implements CanDeactivate<T> {
   canDeactivate(
    component: T,
   route: ActivatedRouteSnapshot,
   state: RouterStateSnapshot
  ):
   Observable<boolean|UrlTree>|Promise<boolean|UrlTree>|boolean|UrlTree
{ ... }
}
{ path: ..., canDeactivate: [CanDeactivateGuard] }
```

ION

```
class CanActivateChildGuard implements CanActivateChild {
   canActivateChild(
     route: ActivatedRouteSnapshot,
     state: RouterStateSnapshot
   ):
Observable<boolean|UrlTree>|Promise<boolean|UrlTree>|boolean|UrlTree
{ ... }
}

{ path: ..., canActivateChild: [CanActivateGuard], children: ... }
```

```
class ResolveGuard implements Resolve<T> {
   resolve(
    route: ActivatedRouteSnapshot,
    state: RouterStateSnapshot
): Observable<any>
```

```
class CanLoadGuard implements CanLoad {
   canLoad(
    route: Route
   ):
Observable<boolean|UrlTree>|Promise<boolean|UrlTree>|boolean|UrlTree
{ ... }
}
{ path: ..., canLoad: [CanLoadGuard], loadChildren: ... }
```

02/08/2022 13:06 Angular - Cheat Sheet

Last reviewed on Mon Feb 28 2022

•