

Angular for TypeScript Cheat Sheet (v2.0.0-alpha.44)

Source: angular.io/cheatsheet

Developer Preview Only Some details might change

bootstrap(MyAppComponent, [MyService, provide(...)]);

Template syntax

import {bootstrap} from 'angular2/angular2';

Bootstraps an application with MyAppComponent as the root component and configures the DI providers.

<pre><input [value]="firstName"/></pre>	Binds property value to the result of expression firstName.
<div [attr.role]="myAriaRole"></div>	Binds attribute role to the result of expression myAriaRole.
<pre><div [class.extra-sparkle]="isDelightful"></div></pre>	Binds the presence of the css class $$ extra-sparkle $$ on the element to the truthiness of the expression $$ isDelightful.
<pre><div [style.width.px]="mySize"></div></pre>	Binds style property width to the result of expression mySize in pixels. Units are optional.
<pre><button (click)="readRainbow(\$event)"></button></pre>	Calls method readRainbow when a click event is triggered on this button element (or its children) and passes in the event object.
<div title="Hello {{ponyName}}"></div>	Binds a property to an interpolated string, e.g. "Hello Seabiscuit". Equivalent to: <div [title]="'Hello' + ponyName"></div>
Hello {{ponyName}}	Binds text content to an interpolated string, e.g. "Hello Seabiscuit".
<my-cmp [(title)]="name"></my-cmp>	Sets up two-way data binding. Equivalent to: <my-cmp (title-change)="name=\$event" [title]="name"></my-cmp>
<pre><video #movieplayer=""> <button (click)="movieplayer.play()"></button></video></pre>	Creates a local variable movieplayer that provides access to the video element instance in data- and event-binding expressions in the current template.
	The * symbol means that the current element will be turned into an embedded template. Equivalent to: <template [my-unless]="myExpression"></template>
<pre>Card No.: {{cardNumber myCreditCardNumberFormatter}}</pre>	Transforms the current value of expression cardNumber via pipe called creditCardNumberFormatter.
Employer: {{employer?.companyName}}	The Elvis operator (?) means that the employer field is optional and if undefined, the rest of the expression should be ignored.
Built-in directives	<pre>import {NgIf,} from 'angular2/angular2';</pre>
<pre><section *ng-if="showSection"></section></pre>	Removes or recreates a portion of the DOM tree based on the showSection expression.
<li *ng-for="#item of list">	Turns the $$ li element and its contents into a template, and uses that to instantiate a view for each $$ item $$ in $$ list.
<pre><div [ng-switch]="conditionExpression"> <template [ng-switch-when]="case1Exp"></template> <template ng-switch-when="case2LiteralString"></template> <template ng-switch-default=""></template> </div></pre>	Conditionally swaps the contents of the $$ div $$ by selecting one of the embedded templates based on the current value of conditionExpression.
<pre><div [ng-class]="{active: isActive, disabled: isDisabled}"></div></pre>	Binds the presence of css classes on the element to the truthiness of the associated map values. The right-hand side expression should return {class-name: true/false} map.
Forms	<pre>import {FORM_DIRECTIVES} from 'angular2/angular2';</pre>
<pre><input [(ng-model)]="userName"/></pre>	Provides two-way data-binding, parsing and validation for form
Tiput [(iig iiiddel)] ddeliidiiie	controls.
Class decorators	<pre>import {Directive,} from 'angular2/angular2';</pre>
<pre>@Component({}) class MyComponent() {}</pre>	Declares that a class is a component and provides metadata about the component.
<pre>@Pipe({}) class MyPipe() {}</pre>	Declares that a class is a pipe and provides metadata about the pipe.
<pre>@Injectable() class MyService() {}</pre>	Declares that a class has dependencies that should be injected into the constructor when the dependency injector is creating an instance of this class.
<pre>@Directive configuration (used as @Directive({ property1: va</pre>	lue1, }))
<pre>@Directive configuration (used as @Directive({ property1: va selector: '.cool-button:not(a)'</pre>	Specifies a css selector that identifies this directive within a template. Supported selectors include: element, [attribute], .class, and :not(). Does not support parent-child relationship selectors.
	Specifies a css selector that identifies this directive within a template. Supported selectors include: element, [attribute], .class, and :not().

@Component configuration (@Component extends @Directive, so the	@Directive configuration above applies to components as well)
<pre>viewProviders: [MyService, provide()]</pre>	Array of dependency injection providers scoped to this component's view.
<pre>template: 'Hello {{name}}' templateUrl: 'my-component.html'</pre>	Inline template / external template url of the component's view.
<pre>styles: '.primary {color: red}' styleUrls: ['my-component.css']</pre>	List of inline css styles / external stylesheet urls for styling component's view.
<pre>directives: [MyDirective, MyComponent]</pre>	List of directives used in the the component's template.
<pre>pipes: [MyPipe, OtherPipe]</pre>	List of pipes used in the component's template.
Class field describes for divertives and someonets	import (Input) from 'ongulor' /ongulor'
Class field decorators for directives and components @Input() myProperty;	import {Input,} from 'angular2/angular2'; Declares an input property that we can update via property binding, e.g.
<pre>@Output() myEvent = new EventEmitter();</pre>	<pre><my-cmp [my-property]="someExpression"> Declares an output property that fires events to which we can subscribe with an event binding, e.g. <my-cmp (my-event)="doSomething()"></my-cmp></my-cmp></pre>
<pre>@HostBinding('[class.valid]') isValid;</pre>	Binds a host element property (e.g. css class valid) to directive/component property (e.g. isValid)
<pre>@HostListener('click', ['\$event']) onClick(e) {}</pre>	Subscribes to a host element event (e.g. click) with a directive/component method (e.g., onClick), optionally passing an argument (\$event)
<pre>@ContentChild(myPredicate) myChildComponent;</pre>	Binds the first result of the component content query (myPredicate) to the myChildComponent property of the class.
<pre>@ContentChildren(myPredicate) myChildComponents;</pre>	Binds the results of the component content query (myPredicate) to the myChildComponents property of the class.
<pre>@ViewChild(myPredicate) myChildComponent;</pre>	Binds the first result of the component view query (myPredicate) to the myChildComponent property of the class. Not available for directives.
@ViewChildren(myPredicate) myChildComponents;	Binds the results of the component view query (myPredicate) to the myChildComponents property of the class. Not available for directives.
Directive and component change detection and lifecycle hooks (imple constructor(myService: MyService,) { }	The class constructor is called before any other lifecycle hook. Use it to
<pre>onChanges(changeRecord) { }</pre>	inject dependencies, but avoid any serious work here. Called after every change to input properties and before processing
onInit() { }	content or child views. Called after the constructor, initializing input properties, and the first
doCheck() { }	call to onChanges. 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.
atterContentinit() { }	Called after oninit when the components of directives content has
<pre>afterContentInit() { } afterContentChecked() {</pre>	Called after onInit when the component's or directive's content has been initialized. Called after every check of the component's or directive's content
<pre>afterContentInit() { } afterContentChecked() { } afterViewInit() { }</pre>	been initialized. Called after every check of the component's or directive's content. Called after onContentInit when the component's view has been
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The router calls the component's onReuse method (if defined) when

The router calls the canDeactivate methods (if defined) of every

component that would be removed after a navigation. The navigation proceeds if and only if all such methods return true or a promise that

Called before the directive is removed as the result of a route change. May return a promise that pauses removing the directive until the

it re-uses a component instance.

promise resolves.

onReuse(nextInstruction, prevInstruction) { ... }

canDeactivate(nextInstruction, prevInstruction) {

onDeactivate(nextInstruction, prevInstruction) {