BINDINGS

[Drop a comment for suggestions, requests & fixes]

Data Binding is communication between the application logic (TS) and the user interface (HTML)

String Interpolation Read var from typescript and output data to html String interpolation accepts any expression that could be resolved to a string in the end		<pre>varName = "online"; get_id() { return "235"; } // function that returns a string</pre>
		{{ "Server" }} is {{ varName }} and it's id is: {{ get_id() }}
Property binding	TS	textValue = "Paragraph one";
Dynamically bind html tag properties Any TypeScript code that will be placed between the quotation marks will work	HTML	<pre></pre>
Disable button via Property binding The disable keyword can be anything, this line will toggle the "disabled" keyword visibility in the HTML		<pre>buttonIsDisabled = true;</pre>
		<pre></pre>
Event binding	HTML	<pre><button (click)="onButton1Clicked()">Button 1</button></pre>
Grab text input via Event binding The input keyword is a standard dom event provided by the element. The \$event keyword is a reserved variable that can be used only in the template when using event binding	TS	<pre>onInput(event:Event) { // explicit casting event.target to HTMLInputElement inputTextValue = (<htmlinputelement>event.target).value; }</htmlinputelement></pre>
using event binding	HTML	<pre><input (input)="onInput(\$event)" type="text"/></pre>
Two way data binding Combination of output data and event binding using the ngModel directive (which have to be imported in the application module)	TS	variableX = "my text value"
	HTML	<pre><input [(ngmodel)]="variableX" type="text"/> {{ variableX }}</pre>
Structural Directive `ngIf` *accepts boolean expression, method/variable	HTML	<pre>Paragraph 1 Paragraph 2</pre>
Structural Directive `Ng if else` *Swaps the element with the given local reference *The local reference is sometimes called a marker *It's possible to use to ngIf statements with the logical not flag on the second ngIf instead	HTML	<pre> flag is True <ng-template #pnovisible=""></ng-template></pre>
Attribute directive ngStyle *Accepts argument as javascript object in the standard structure {style:value,} pairs *Object's key must be camel case if it's not a String *Variables and functions are also valid as long as they return a js style object	HTML	<pre>Example 1 Example 2 Example 3 getPStyle(c) { return { color : c }; }</pre>
Attribute directive ngClass Accepts argument as javascript object, were the key is the class name and value is a boolean that enables/disables the same class	HTML	<pre> Paragraph </pre>
Structural Directive `ngFor`	TS	myList = ["dog" , "cat", "bird"];
*Bind to array *Replicate DOM elements *Let i = index, is optional		<pre>{{listItem_value}} {{item}} at {{index}}</pre>

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ANGULAR CLI

Ng Serve Options

Official description	Option	Default Value	Explanation
Listens only on localhost by default	-Н	localhost	
Whether to reload the page on change, using live-reload	-lr	true	
Opens the url in default browser	-0	false	
Port to listen to for serving	-p	4200	
Log progress to the console while building	-sm	N/A	

Ng Generate Component

Official description	Option	Default Value	Explanation
Allows for skipping the module import	skip-import	false	Will skip the declaration import to declarations array in app.module.ts, @NgModule({ declarations: [], });
Flag to indicate if a dir is created.	flat	false	Prevent creating a folder for the component and place it in app folder instead
Specifies if the style will be in the component typescript file	inline-style (alias) -is	false	
Specifies if the template will be in the component typescript file	inline-template (alias) -it	false	
Allows specification of the declaring module's file name (e.g `app.module.ts`).	module (alias) -m	N/A	Ifskip-import is set to false, this will tell angular cli which module the component will be imported into.
Specifies if a spec file is generated.	spec	true	Set this parameter to false if you wish to not create the .spec.ts file

Examples

Create component comp1, place it into comp1 folder, without the style, html and spec files. Without importing component into module.

> ng g c comp1 --skip-import --is -it --spec false

Create component comp2 with a folder named comp2, then place comp2 folder inside comp1 folder

> ng g c comp1/comp2

AngularJS Version based installation

> npm install -g @angular/cli@1.0.6

ABOUT

Component - (Creating a new component by hand) While it's recommended to create a new folder for each component, it is not necessary.

Since angular will use each component to create objects from it, every component needs to be a TypeScript class (with the .ts file extension). For example i have create **myComp.ts** and placed it in to **project_folder/src/app** directory.

To allow angular use this class globally it must be first exported

```
export class MyComp { ... }
```

A component-decorator tells angular that this class is a component (note: decorators comes with the at `@` sign in front of them)

Available component selector types	TypeScript component decorator	Html document example	
Html tag	selector: 'comp-name'	<comp-name></comp-name>	
Attribute	selector: '[comp-name]'	<div comp-name=""></div>	
Element class	selector: '.comp-name'	<div class="comp-name"></div>	

Angular uses components to build web pages and uses modules to bundle components into packages, generally a small application will be sufficient with the main app/app.module.ts. A module provides angular about the futures that the app have.

To make the new component work it has to be declared within the main module. In app/app.module.ts:

To see your component working add the following into the html documents

<pre>myComp.html (your html file linked to component decorator)</pre>	app.component.html (main app component)	
<h1>My Component</h1>	<comp-selector-name></comp-selector-name>	

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Directives

Directives are instructions to the DOM. Any component is a directive with a template. A custom directive can be simply used as a parameter in any html element. Here is an example of a new directive structure in the code:

```
somePage.html app.MyDirectiveName.ts

@Directive({ Selector: '[paramaterName]' })
<div paramaterName> ... </div> export class MyDirectiveName { ... }
```

Structural directives such as nglf will change the Html structure, all structural directives must have a star as the first character.

IF / Else directive example

Attribute directive won't modify the dom structure and don't need the star character at the beginning of the keyword. All non-structural directives must follow the property binding syntax (wrapped around with two square brackets), this will bind the directives to the html element. For example the **ngStyle** directive will control the elements **style** parameter as this is how that directive was structured. The attribute directive doesn't necessary have to share a common naming between the directive name, and it's target control parameter, but it is a good practice to do so.

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