https://stackblitz.com/edit/angular-ivy-rzoexd?file=src%2FBasics%2Fbasics.component.ts

**COMPONENT:**

Graphical user interface

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**3 way to declare a selector:**

1. **<app-dummy> 2)[app-dummy] (as attribute) 3) .app-dummy(as class)**
2. If as <app-dummy> :

In app.componnet.html use <app-dummy></app-dummy>

1. If as attribute:

In app-> use <div app-dummy></div>

1. If as class:

In app-> use <div class=”app-dummy”></div>

**STRING INTERPOLATION( {{}}):**

**Limitation of Interpolation:**

We cannot use string interpolation in “**INTEGERS it shows parse error” .**

Assignments of expression result to a variable are not possible {{a=2+2}}**;**

Not able to access the global variable inside {{}} eg: {{}windows.location.href},**in case if we need to use the above then we have to bind that in class and use that variable inside {{}} eg: Inside class :string site=”window.location.href” then in html page {{site}}.**

**PROPERTY BINDING:**

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* If we does not use property binding then while we entering the data in the input field the value changes but the attribute remains constant.So if we use property binding then the attribute value also gets updated.
* Attributes and property binding are different.
* Attributes are HTML.
* Propertires are DOM.

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**In this above example both form of binding can be used in case of string ,but in case of boolean results interpolation method fails.**

**CLASS BINDING:**Text

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Above is the example for both class binding and Property Binding

**Using [ngClass] attribute:**

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**Ngstyle,Ngclass this type will be used like set of details (class) ,multiple details can assign inside the class and can call that class name inside Ngstyle ansd Ngclass**

**EVENT BINDING:**

To capture the event like **onclick or submit** from Template (UI) to the model,we should use Event Binding.

<button (click)=”onClick($event)”></button>

$event:contains the properties of the button click for eg:type,coordinates,value,name etc;

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In class if we enter like this we will get the output as :click---which is the type of that particular event.

**TEMPLATE REFERENCE VARIABLE:**

This is like how to get the value that is entered inside a textbox and pass that value to console on button click

Text

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A screenshot of a computer

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**TWO WAY BINDING:**

If view is updated class should also get updated and viceversa.

Diagram

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**\*\*\*\*\*\*\*IMPORTANT NOTE\*\*\*\*\*\*\*\*\*\*\*\***

**[(ngModel)]->remember a banana inside box ()-banana,[]-box.**

**[]->Property Binding i.e data flow from property to template.**

**()->EventBinding i.e data flow from Template to Property**

**The above makes the 2 way binding**

**Ng-If Directive:**

We use ngif,for,switch to add or remove the html elements from the DOM

Text

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Either use the above syntax or use the below one.Text

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**Ng-Switch Directive:**

Text

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**Ng-For Directive:**

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**Component Interaction:**

Diagram

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Child component gets the input from the app component and gives the output to the App component.

From parent to child it is easy to bind using **selector <app-child>**

**https://stackblitz.com/edit/angular-ivy-rzoexd?file=src%2Fapp%2FInputOutput%2Finput.component.ts**

From child to parent is different using **Event Emitter**

**https://stackblitz.com/edit/angular-ivy-rzoexd?file=src%2Fapp%2Fapp.component.html**

**Component Interaction:**