

Angular components

GFT INTERNAL TRAINING

INNOVATE. TRANSFORM. DELIVER.

1.component2.pasing data to a component

component

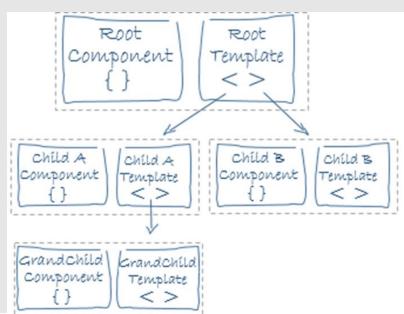
component

 controls a patch of screen real estate that we could call a view, and declares reusable UI building blocks for an application

is anything that is visible to the end user and which can be reused

many times within an application

- is a core concept
- app → tree of components

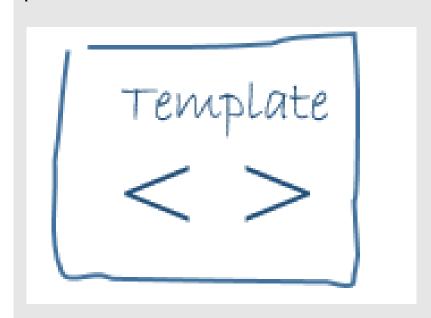


component

```
foo works!
                                                                 (foo.component.html)
 Template >
                                  import { Component, OnInit } from '@angular/core';
                                  @Component({
                                   selector: 'app-foo',
                                                                              (foo.component.ts)
                                   templateUrl: './foo.component.html',
                                   styleUrls: ['./foo.component.css']
                                  export class FooComponent implements OnInit {
                                    constructor() { }
Component
                                   ngOnInit() {
```

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template syntax is not html



https://angular.io/guide/template-syntax

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Pasing data to a component



```
import {Input, Component, OnInit } from '@angular/core';
@Component({
  selector: 'app-saluda-a',
  template: 'Hola {{name}}',
export class SaludaAComponent {
 @Input() name: string;
```

CHILD COMPONENT

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```
@Component({
                                                        PARENT
  selector: 'app-root',
  template:
                                                    COMPONENT
  `<h1>Father component</h1>
   <!-- property binding to a string -->
    <app-saluda-a name="Nelson Mandela"></app-saluda-a>
   <br><</pre>
   <!-- property binding to an expression -->
    <app-saluda-a [name]="famous.toUpperCase()"></app-saluda-a>
    <br>>`
export class AppComponent {
  famous = "rafa nadal";
```

```
`<h1>Father component</h1>
<!-- property binding to a string -->
<app-saluda-a name="Nelson Mandela"></app-saluda-a>
<br>
<br>
<br>
<!-- property binding to an expression -->
<app-saluda-a [name]="famous.toUpperCase()"></app-saluda-a>
```

Father component

Hola Nelson Mandela

Hola RAFA NADAL

Property binding is dynamic

```
<!-- property binding is dynamic -->
    <app-saluda-a [name]="changingName"></app-saluda-a>
    <br>)
export class AppComponent {
  famous = "rafa nadal"
  changingName ="ben alpert"
  constructor(){
    setTimeout( () => this.changingName = "sophie alpert", 2000)
```

Bottom-up (from child to parent)



Bottom-up (from child to parent)

```
@Output() readed = new EventEmitter<string>();
confirmRead = function(){
  this.readed.emit("Message has been readed");
}
```

CHILD COMPONENT

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Bottom-up (from child to parent)

event binding

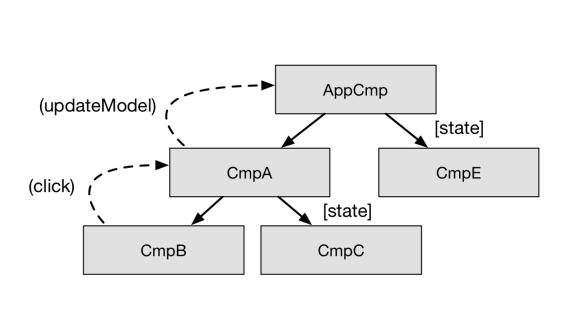
```
<h1>Father component</h1>
<!-- property binding to a string -->
<app-saluda-a name="Nelson Mandela" (readed)=doSomething($event)></app-saluda-a>
```

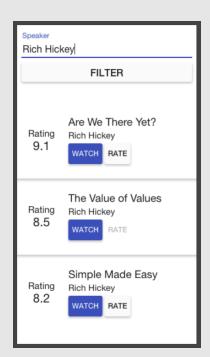
```
doSomething = function(message) {
  alert(message);
}
```

PARENT COMPONENT

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change propagation through the component tree





https://blog.nrwl.io/reactive-programming-in-angular-7dcded697e6c

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learn by doing

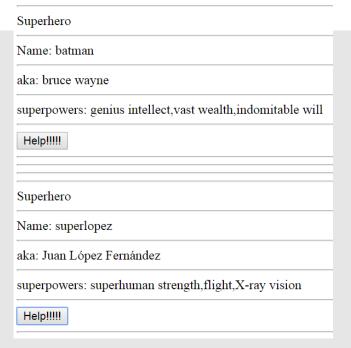
```
export class <u>Superhero</u> {
  name: string;
  alterEgo: string;
  superpowers: string[];
}
```

create an angular app with a component showSuperhero that receives from a parent component a Superhero object and show his data

Instead of class an interface could have been used, more on the differences here:

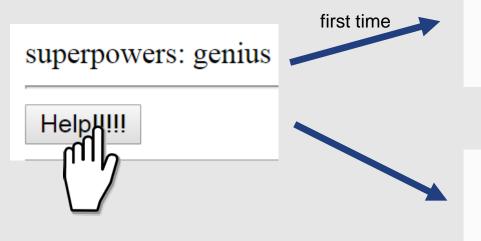
https://stackoverflow.com/questions/40973074/difference-between-interfaces-and-classes-in-typescript

learn by doing



add a button to showSuperhero component that will send to its parent the name of the superhero

learn by doing



localhost:4200 dice:

Calling batman

localhost:4200 dice:

A superhero has been called already

show an alert calling a superhero only once

learn by doing

- •use *ngFor to add the components from a superheroes lists
- •allow to call as many heroes as the user wants
- show a table with the status of each superhero (on duty or / available)
- •add a setTimeout with a random value so each superhero can comunicate when is available again
- highlight with style the components that are on duty

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GFT Internal Technical Training

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