



Directivas de componentes:

ng gererate directive

Directivas estructurales:

*nglf

*ngSwitch

*ngFor

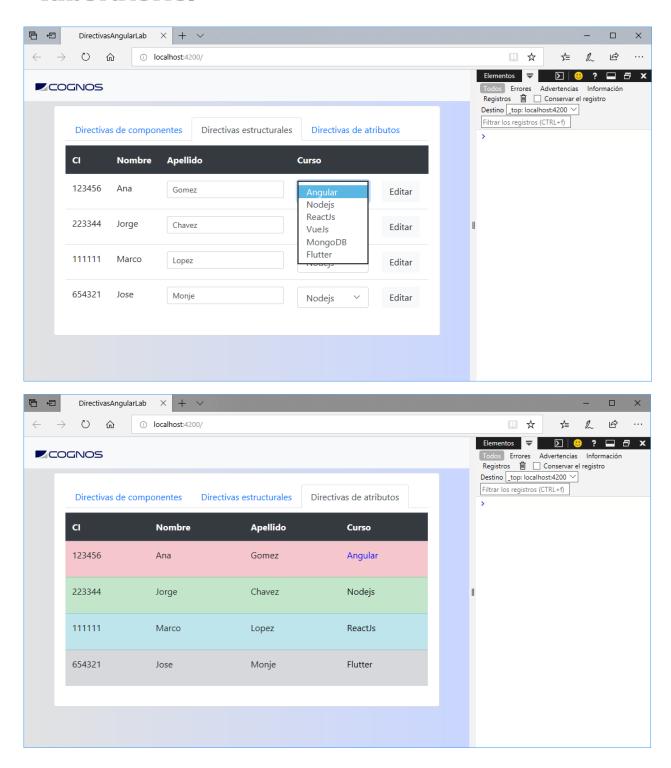
Directivas de atributos:

*ngClass

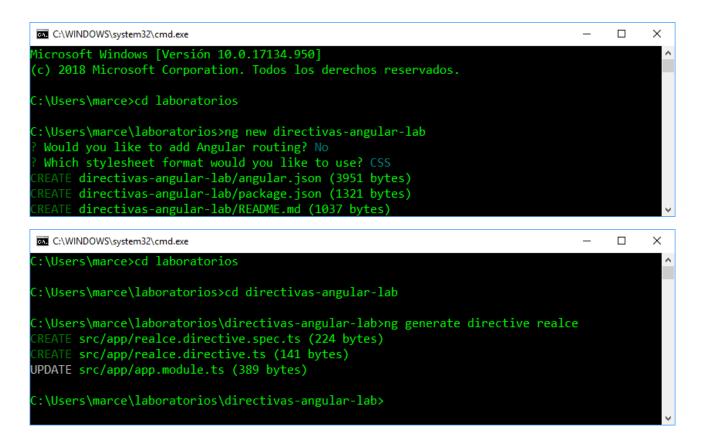
*ngStyle



<laboratorio/>







ng g c componentes/editar-alumnos ng g c componentes/listar-alumnos ng gererate directive realce



/src/index.html

```
<!doctype html>
<html lang="en">
  <meta charset="utf-8">
  <title>DirectivasAngularLab</title>
  <base href="/">
 <meta name="viewport" content="width=device-width, initial-scale=1">
 <link rel="icon" type="image/x-icon" href="favicon.ico">
  <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"</pre>
integrity="sha384-gg0yR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQU0hcWr7x9JvoRxT2MZw1T" crossorigin="anony-
mous">
 <app-root></app-root>
  <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-</pre>
q8i/X+965Dz00rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js" integrity="sha384-</pre>
UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1c1HTMGa3JDZwrnQq4sF86dIHNDz0W1" crossorigin="anonymous"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js" integrity="sha384-</pre>
JjSmVgyd0p3pXB1rRibZUAYoIIy60rQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM" crossorigin="anonymous"></script>
```

```
/src/style.css
body {
    background: #C9D6FF;
    background: -webkit-linear-gradient(to right, #E2E2E2, #C9D6FF);
    background: linear-gradient(to right, #E2E2E2, #C9D6FF);
}
```



/src/app/app.module.ts

```
import { BrowserModule } from '@angular/platform-browser';
import { NgModule } from '@angular/core';
import { AppComponent } from './app.component';
import { RealceDirective } from './realce.directive';
import { EditarAlumnosComponent } from './componentes/editar-alumnos/editar-alumnos.component';
import { ListarAlumnosComponent } from './componentes/listar-alumnos/listar-alumnos.component';
@NgModule({
 declarations: [
   AppComponent,
   RealceDirective,
    EditarAlumnosComponent,
    ListarAlumnosComponent
  imports: [
   BrowserModule
  providers: [],
  bootstrap: [AppComponent]
export class AppModule { }
```



/src/app/app.component.html

```
<nav class="navbar navbar-light bg-light">
 <span class="navbar-brand mb-0 h1">
  <img src="assets/logocognos.png" alt="">
<div class="container">
 <div class="row mt-2">
   <div class="col-12">
     <div class="card">
      <div class="card-body">
        <a class="nav-link active" id="tab1-tab" data-toggle="tab" href="#tab1" role="tab" aria-con-</pre>
trols="home"
             aria-selected="true">Directivas de componentes</a>
          <a class="nav-link" id="tab2-tab" data-toggle="tab" href="#tab2" role="tab" aria-con-</pre>
trols="profile"
             aria-selected="false">Directivas estructurales</a>
          <a class="nav-link" id="tab3-tab" data-toggle="tab" href="#tab3" role="tab" aria-con-</pre>
trols="contact"
             aria-selected="false">Directivas de atributos</a>
        <div class="tab-content" id="myTabContent">
          <div class="tab-pane fade show active" id="tab1" role="tabpanel" aria-labelledby="tab1-tab">
            <div class="p-4">
                     Texto con realce
```





/src/app/realce.directive.ts

```
import { Directive, ElementRef, HostListener, Input } from '@angular/core';

@Directive({
    selector: '[appRealce]'
})
export class RealceDirective {

    @Input('appRealce') colorSet: string;

    constructor(private el: ElementRef) { }

    @HostListener('mouseenter') onMouseEnter() {
        this.realce('yellow');
    }

    @HostListener('mouseleave') onMouseLeave() {
        this.realce(null);
    }

    private realce(color: string) {
        this.el.nativeElement.style.backgroundColor = color;
    }
}
```



/src/app/componentes/editar-alumnos/editar-alumnos.component.ts

```
import { Component, OnInit } from '@angular/core';
@Component({
 selector: 'app-editar-alumnos',
 templateUrl: './editar-alumnos.component.html',
 styleUrls: ['./editar-alumnos.component.css']
export class EditarAlumnosComponent implements OnInit {
 alumno: Alumno;
 alumnos: Alumno[];
 cursos: string[];
 editar: boolean;
 constructor() { }
 ngOnInit() {
   this.cargarCursos();
   this.cargarAlumnos();
   this.editar = false;
 cargarCursos() {
   this.cursos = ['Angular', 'Nodejs', 'ReactJs', 'VueJs', 'MongoDB', 'Flutter'];
  cargarAlumnos() {
   this.alumnos = [
      { ci: 123456, nombre: "Ana", apellido: "Gomez", curso: "Angular" },
      { ci: 223344, nombre: "Jorge", apellido: "Chavez", curso: "Angular" },
      { ci: 111111, nombre: "Marco", apellido: "Lopez", curso: "Nodejs" },
      { ci: 654321, nombre: "Jose", apellido: "Monje", curso: "Nodejs" }
interface Alumno {
  ci: number,
```



```
nombre: string,
apellido: string,
curso: string
}
```



/src/app/componentes/editar-alumnos/editar-alumnos.component.html

```
<div class="row mt-2">
  <div class="col-12">
     <thead class="thead-dark">
              CI
              Nombre
              Apellido
              Curso
           {{d>{{ alumno.ci }}
              {{ alumno.nombre }}
                 <div *ngIf="!editar;else divApellido">
                    {{ alumno.apellido }}
                 <ng-template #divApellido>
                    <input type="text" class="form-control form-control-sm" [value]="alumno.ape-</pre>
llido">
                 </ng-template>
                 <div *ngIf="!editar;else divCurso">
                    {{ alumno.curso }}
                 <ng-template #divCurso>
                    <select [value]="alumno.curso" name="uso_garantia" class="form-control">
                       <option *ngFor="let curso of cursos">
                          {{ curso }}
                 </ng-template>
              = editar=true
```





/src/app/componentes/editar-alumnos/listar-alumnos.component.ts

```
import { Component, OnInit } from '@angular/core';
@Component({
  selector: 'app-listar-alumnos',
 templateUrl: './listar-alumnos.component.html',
 styleUrls: ['./listar-alumnos.component.css']
export class ListarAlumnosComponent implements OnInit {
 alumno: Alumno;
 alumnos: Alumno[];
 cursos: string[];
  constructor() { }
 ngOnInit() {
   this.cargarCursos();
   this.cargarAlumnos();
  cargarCursos() {
    this.cursos = ['Angular', 'Nodejs', 'ReactJs', 'VueJs', 'MongoDB', 'Flut-
ter'];
  cargarAlumnos() {
    this.alumnos = [
      { ci: 123456, nombre: "Ana", apellido: "Gomez", curso: "Angular" },
      { ci: 223344, nombre: "Jorge", apellido: "Chavez", curso: "Nodejs" },
     { ci: 111111, nombre: "Marco", apellido: "Lopez", curso: "ReactJs" },
      { ci: 654321, nombre: "Jose", apellido: "Monje", curso: "Flutter" }
interface Alumno {
```



```
ci: number,
nombre: string,
apellido: string,
curso: string
}
```



/src/app/componentes/editar-alumnos/listar-alumnos.component.html

```
<div class="row mt-2">
 <div class="col-12">
  <thead class="thead-dark">
     CI
     Nombre
     Apellido
     Curso
    </thead>
    'table-danger': alumno.curso === 'Angular',
     'table-success': alumno.curso === 'Nodejs',
     'table-info': alumno.curso === 'ReactJs',
     'table-secondary': alumno.curso === 'Flutter' }">
     {{ alumno.ci }}
     {{ alumno.nombre }}
     {{ alumno.apellido }}
       {{ alumno.curso }}
     </div>
</div>
```