



## Data Binding:

Interpolación: **{{ }}** (one way data binding) del modelo a la vista.

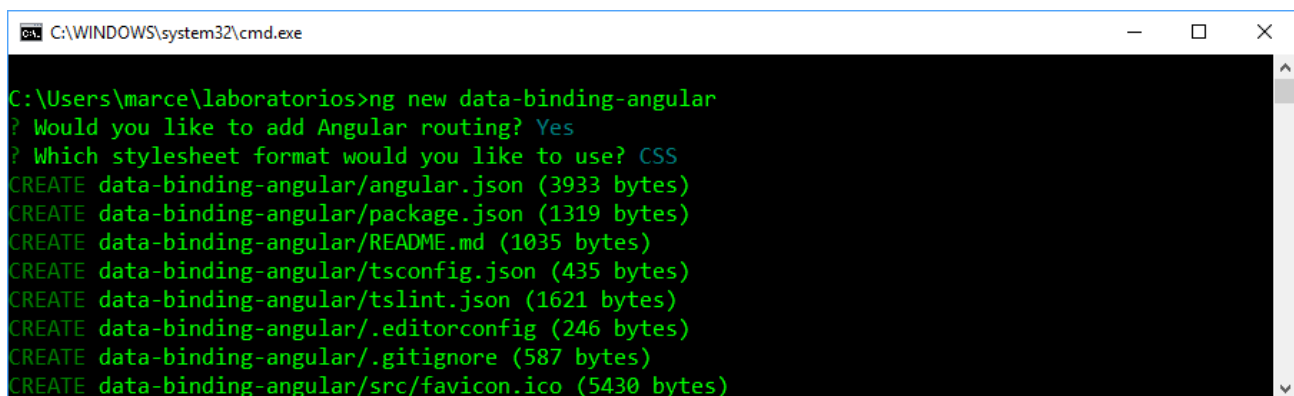
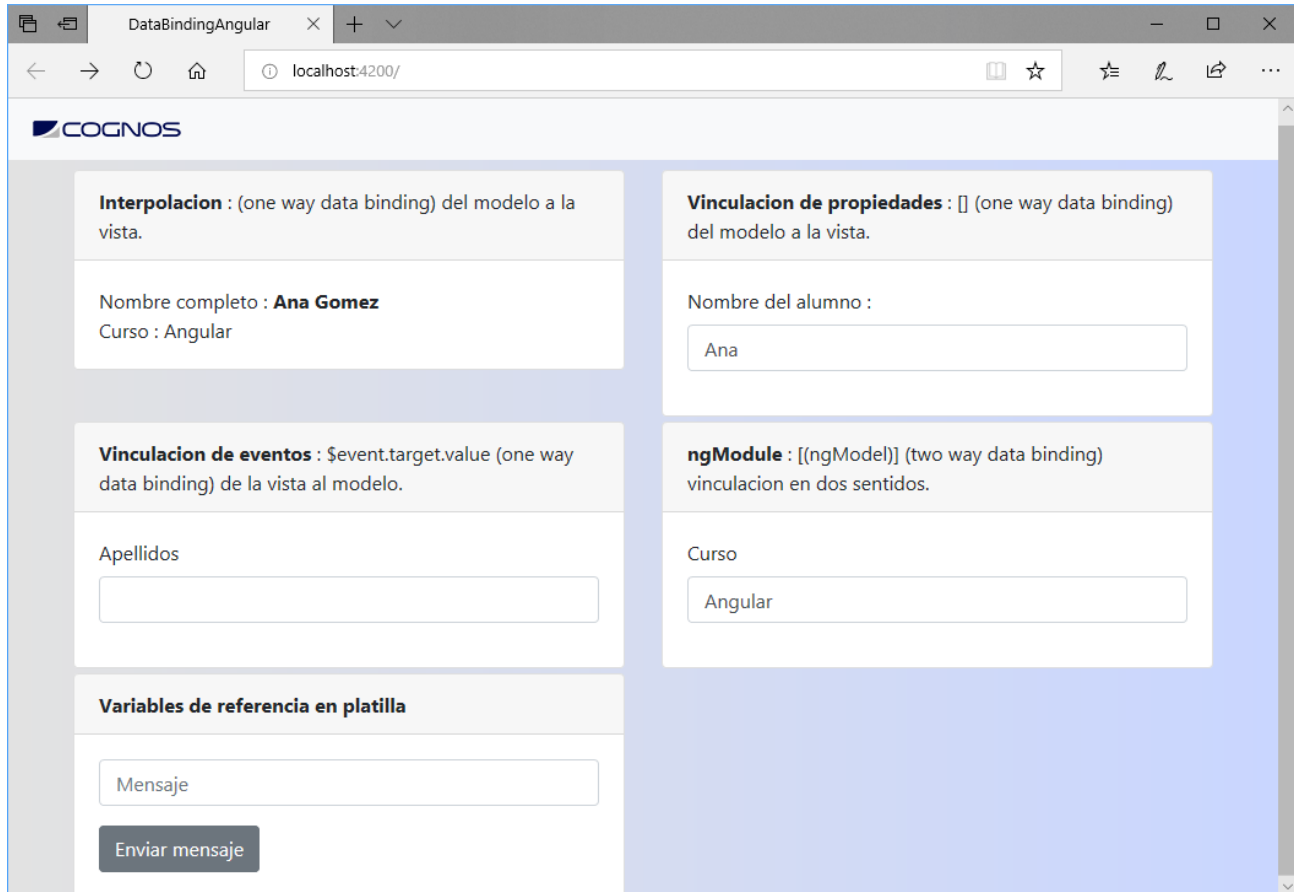
Vinculación de propiedades: **[[ ]]** (one way data binding) del modelo a la vista.

Vinculación de eventos: **\$event.target.value** (one way data binding) de la vista al modelo.

ngModule: **[(ngModel)]** (two way data binding) vinculacion en dos sentidos.

Variables de referencia en platilla: **#**

## <laboratorio/>



```
C:\WINDOWS\system32\cmd.exe

C:\Users\marce\laboratorios>ng new data-binding-angular
? Would you like to add Angular routing? Yes
? Which stylesheet format would you like to use? CSS
CREATE data-binding-angular/angular.json (3933 bytes)
CREATE data-binding-angular/package.json (1319 bytes)
CREATE data-binding-angular/README.md (1035 bytes)
CREATE data-binding-angular/tsconfig.json (435 bytes)
CREATE data-binding-angular/tslint.json (1621 bytes)
CREATE data-binding-angular/.editorconfig (246 bytes)
CREATE data-binding-angular/.gitignore (587 bytes)
CREATE data-binding-angular/src/favicon.ico (5430 bytes)
```



/src/index.html

```
<!doctype html>
<html lang="en">

<head>
  <meta charset="utf-8">
  <title>DataBindingAngular</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"
        integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
        crossorigin="anonymous">

</head>

<body>
  <app-root></app-root>

  <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"
        integrity="sha384-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-U02eT0CpHqD5JQ6h7Jty5KVphtPhzWj9W01c1HTMGA3JDZwrnQq4sF86dIHNDz0W1"
        crossorigin="anonymous"></script>
  <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"
        integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy60rQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM"
        crossorigin="anonymous"></script>

</body>
</html>
```

/src/app/app.module.ts

```
import { BrowserModule } from '@angular/platform-browser';
import { NgModule } from '@angular/core';

import { AppRoutingModule } from './app-routing.module';
import { AppComponent } from './app.component';

import { FormsModule } from '@angular/forms';

@NgModule({
  declarations: [
    AppComponent
  ],
  imports: [
    BrowserModule,
    AppRoutingModule,
    FormsModule
  ],
  providers: [],
  bootstrap: [AppComponent]
})
export class AppModule { }
```



/src/app/app.component.ts

```
import { Component } from '@angular/core';

@Component({
  selector: 'app-root',
  templateUrl: './app.component.html',
  styleUrls: ['./app.component.css']
})
export class AppComponent {

  alumno: Alumno = {
    ci:123456,
    nombres:'Ana',
    apellidos:'Gomez',
    curso:'Angular'
  };
  mensaje: string = '';

  onEnviarMensaje(mensaje: HTMLInputElement): void{
    if(mensaje.value){
      this.mensaje = mensaje.value;
    }
  }
}

interface Alumno {
  ci : number,
  nombres : string,
  apellidos : string,
  curso : string
}
```

/src/app/app.component.html

```
<nav class="navbar navbar-light bg-light">
  <span class="navbar-brand mb-0 h1">
    
  </span>
</nav>

<div class="container">

  <div class="row mt-2">
    <div class="col-6">

      <div class="card">
        <div class="card-header">
          <b>Interpolacion</b> : (one way data binding) del modelo a la vista.
        </div>
        <div class="card-body">
          Nombre completo : <b>{{ alumno.nombres }} {{ alumno.apellidos }}</b> <br>
          Curso : {{ alumno.curso }}
        </div>
      </div>

    </div>

    <div class="col-6">

      <div class="card">
        <div class="card-header">
          <b>Vinculacion de propiedades</b> : [] (one way data binding) del modelo a la vista.
        </div>
        <div class="card-body">
          <div class="form-group">
            <label for="">Nombre del alumno : </label>
            <input type="text" [value]="alumno.nombres" name="nombre" class="form-control">
          </div>
        </div>
      </div>

    </div>
  </div>
</div>
```



```
<div class="row mt-1">
  <div class="col-6">

    <div class="card">
      <div class="card-header">
        <b>Vinculacion de eventos</b> : $event.target.value (one way data binding) de la vista al modelo.
      </div>
      <div class="card-body">
        <div class="form-group">
          <label for="">Apellidos</label>
          <input type="text" class="form-control" (change)="alumno.apellidos = $event.target.value">
        </div>
      </div>
    </div>

  </div>

  <div class="col-6">

    <div class="card">
      <div class="card-header">
        <b>ngModule</b> : [(ngModel)] (two way data binding) vinculacion en dos sentidos.
      </div>
      <div class="card-body">
        <div class="form-group">
          <label for="">Curso</label>
          <input type="text" class="form-control" name="curso" [(ngModel)]="alumno.curso">
        </div>
      </div>
    </div>

  </div>
</div>
```

```
<div class="row mt-1">
  <div class="col-6">
    <div class="card">
      <div class="card-header">Variables de referencia en platilla</div>
      <div class="card-body">

        <div class="form-group">
          <input type="text" class="form-control" placeholder="Mensaje" name="mensaje" #msg>
        </div>
        <button class="btn btn-secondary" (click)="onEnviarMensaje(msg)">Enviar mensaje</button>
        {{ mensaje }}
      </div>
    </div>
  </div>
  <div class="col-6">

  </div>
</div>

<router-outlet></router-outlet>
```