Version Check

This course was created by using:

- Angular 17

Version Check

This course is 100% applicable to:
- Angular 14+

Mostly applicable to:
- 8+

Recommended Prerequisites

Angular Fundamentals

HTML

JavaScript

Edit Contact

Name/Info
- First Name
- Last Name
- Title

Phone
- Phone ⊕
- Mobile

Email
- Email
- ○ Home   ○ Work   ○ Other

Address
- Address ⊕
- City
- State/Region
- Zip/Postal Code
- Home

Cancel   Save

For each field:

Input Value

Edit Contact

Name/Info	Jim
	Cooper
	Author
Phone	888-555-1212 ⊕
	Mobile ⌄
Email	me@jcoop.io
	● Home ○ Work ○ Other
Address	123 Main St ⊕
	Some City
	Montana
	12345
	Work ⌄

Cancel   Save

For each field:
Input Value
Validity

Edit Contact

Name/Info

First Name

First Name is Required

Cooper

Author

Phone

888-555-1212 ⊕

Mobile ⌄

Email

me@jcoop.io

● Home   ○ Work   ○ Other

Address

123 Main St ⊕

Some City

Montana

12345

Work ⌄

Cancel ▷

Save

For each field:

Input Value

Validity

Dirty

Touched

Edit Contact

Name/Info

First Name
First Name is Required

Last Name
Last Name is Required

Title
Title Name is Required

Phone

Phone
Phone Number is Required

Mobile

Email

Email
Email is Required

○ Home   ○ Work   ○ Other

Address

Address
Address is Required

City

State/Region

Zip/Postal Code

For each field:

Input Value

Validity

Dirty

Touched

Edit Contact

Name/Info

First Name
First Name is Required

Last Name

Title

Phone

Phone

Mobile

Email

Email

○ Home   ○ Work   ○ Other

Address

Address

City

State/Region

Zip/Postal Code

Home

Cancel   Save

For each field:
Input Value
Validity
Dirty
Touched

For the entire form:
Input Values
Validity
Dirty
Touched

Edit Contact

Name/Info

First Name
First Name is Required

Last Name

Title

Phone

Phone ⊕

Mobile ⌄

Email

Email

○ Home   ○ Work   ○ Other

Address

Address ⊕

City

State/Region

Zip/Postal Code

Home ⌄

Cancel   Save

For each field:
Input Value
Validity
Dirty
Touched

For the entire form:
Input Values
Validity
Dirty
Touched

Angular Form Controls

FormControl

First Name `[(ngModel)]="firstName"`

- invalid
- valid
- dirty
- pristine
- touched
- untouched
- value

FormGroup

First Name
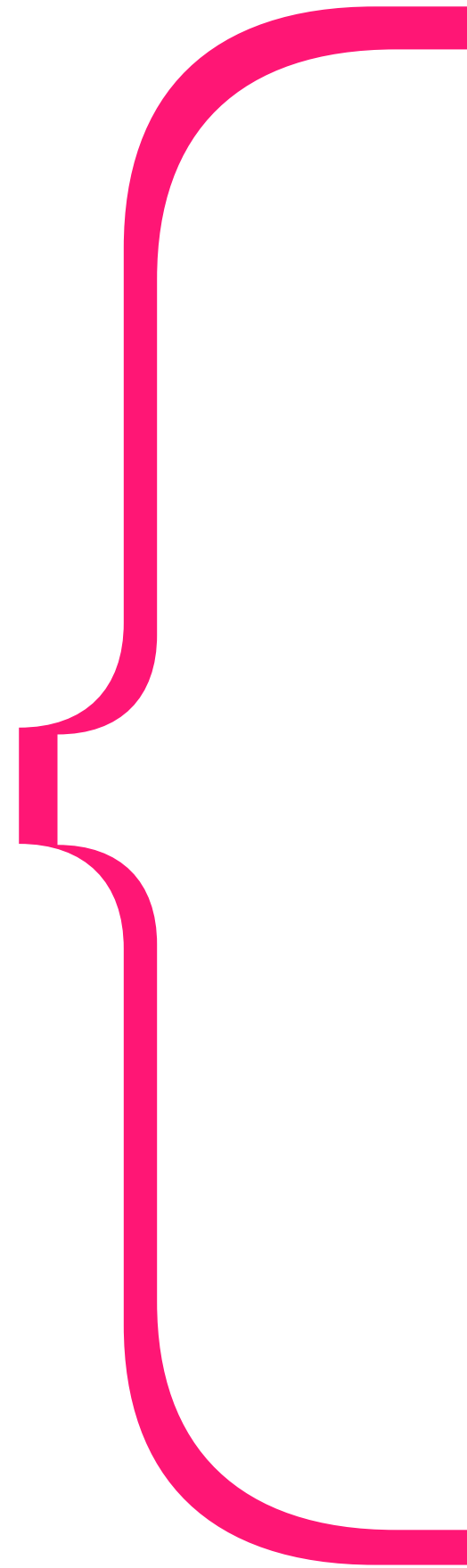Last Name
Title
Address
City
State/Region
Zip/Postal Code
Home

- invalid
- valid
- dirty
- pristine
- touched
- untouched
- value

Angular Forms Approaches

Template-driven Forms

Reactive Forms

Angular Forms Approaches: Similarities

Template-driven Forms and **Reactive Forms**

FormControl

First Name

- invalid
- valid
- dirty
- pristine
- touched
- untouched

FormGroup

First Name
Last Name
Title
Address
City
State/Region
Zip/Postal Code
Home

- invalid
- valid
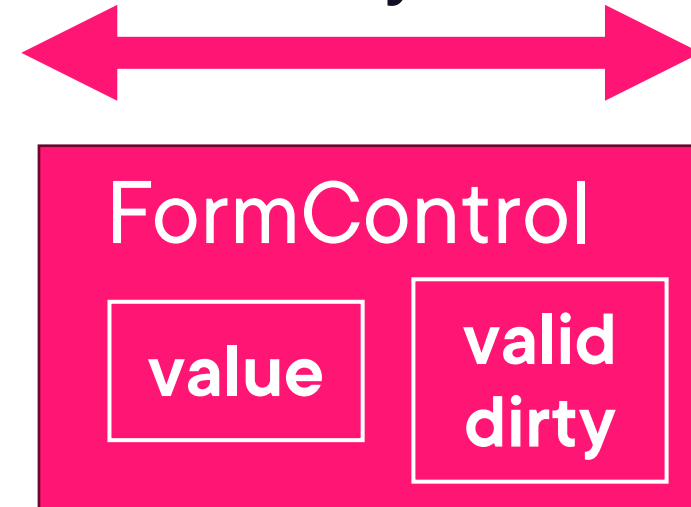- dirty
- pristine
- touched
- untouched

Template-driven Forms

First Name

```
<input
  type="text"
  [(ngModel)]="contact.firstName"
  #firstName="ngModel"
/>
```

Two-way binding

FormControl

| value | valid dirty |

```
class MyComponent {
  contact:Contact = {
    firstName: ''
    lastName: ''
  };
}
```

Reactive Forms

First Name

```
<input
  type="text"
  [formControl]="firstName"
/>
```

One-way binding

"input" Event

```
class MyComponent {

  firstName = new FormControl('');

}
```

Template-driven Forms	vs	Reactive Forms
HTML template-based		TypeScript/Component-based
Separate data model		Data model managed by form controls
Two-way mutable bindings		One-way immutable bindings
Synchronous data flow		Asynchronous data flow
Validation with directives		Validation with functions