

Angular



Template Forms



```
<form> ..... 1 NGFORM  
  <input type="text" name="name"/>  
</form>
```

VALIDADE

VALOR

DIRTY, PRISTINE E TOUCHED

```
<form>  
  <input type="text" name="name" ngModel/>  
</form>
```

FORM RASTREIA OS CAMPOS COM **NGMODEL**

form (valid)

... name (valid)



```
<form>  
  <input type="text" name="name" ngModel/>  
</form>
```

FORM RASTREIA OS CAMPOS COM **NGMODEL**


form (invalid)

... name (invalid)

```
<form>  
  <input type="text" name="name" [ngModel]="username"/>  
</form>
```

```
@Component({...})  
export class UserComponent {  
  username: string = "Nome do usuário"  
}
```


ONE-WAY
BINDING

A diagram illustrating one-way binding. A horizontal dotted line extends from the 'username' property in the TypeScript code block to the right. From the end of this line, a vertical dotted line goes upwards, ending in an arrowhead pointing towards the '[ngModel]="username"' attribute in the HTML code block above.


```
<form>
  <input type="text" name="name" [(ngModel)]="username"/>
</form>
```

```
@Component({...})
export class UserComponent {
  username: string = "Nome do usuário"
}
```

TWO-WAY
BINDING
[()]



The diagram consists of two dotted lines with arrowheads. One line starts from the `[(ngModel)]` attribute in the HTML code block above and points upwards. The other line starts from the `username` property in the TypeScript code block below and points to the left. These two lines meet at a right angle, forming an L-shape that visually connects the two-way binding syntax in the HTML to the corresponding property in the component class.

```
<form #myForm="ngForm">  
  <input type="text" name="name" ngModel/>  
  <input type="text" name="lastname" ngModel/>  
  <input type="text" name="address" ngModel/>  
  <button [disabled]="myForm.invalid"/>  
  
</form>
```

NGFORM PERMITE ACESSAR PROPRIEDADES DO FORMULÁRIO

NGMODEL

VALID | INVALID

PRISTINE | DIRTY

UNTOUCHED | TOUCHED

```
<form>  
  <input name="name" [ngModel]="username" #ipt="ngModel" />  
  <span *ngIf="ipt.invalid">Nome inválido</span>  
</form>
```

VALIDATORS

REQUIRED

PATTERN - REGEX

MINLENGTH & MAXLENGTH

```
<form>
  <input name="name" [ngModel]="username" #ipt="ngModel"
    required minlength="5">
  <span *ngIf="ipt.invalid">Nome inválido</span>
</form>
```

CLASSES **CSS**

NG-VALID | NG-INVALID

NG-PRISTINE | NG-DIRTY

NG-UNTOUCHED | NG-TOUCHED