

Supercharge your



ANGULAR FORMS

@juristr • <https://juristr.com>

whoami?

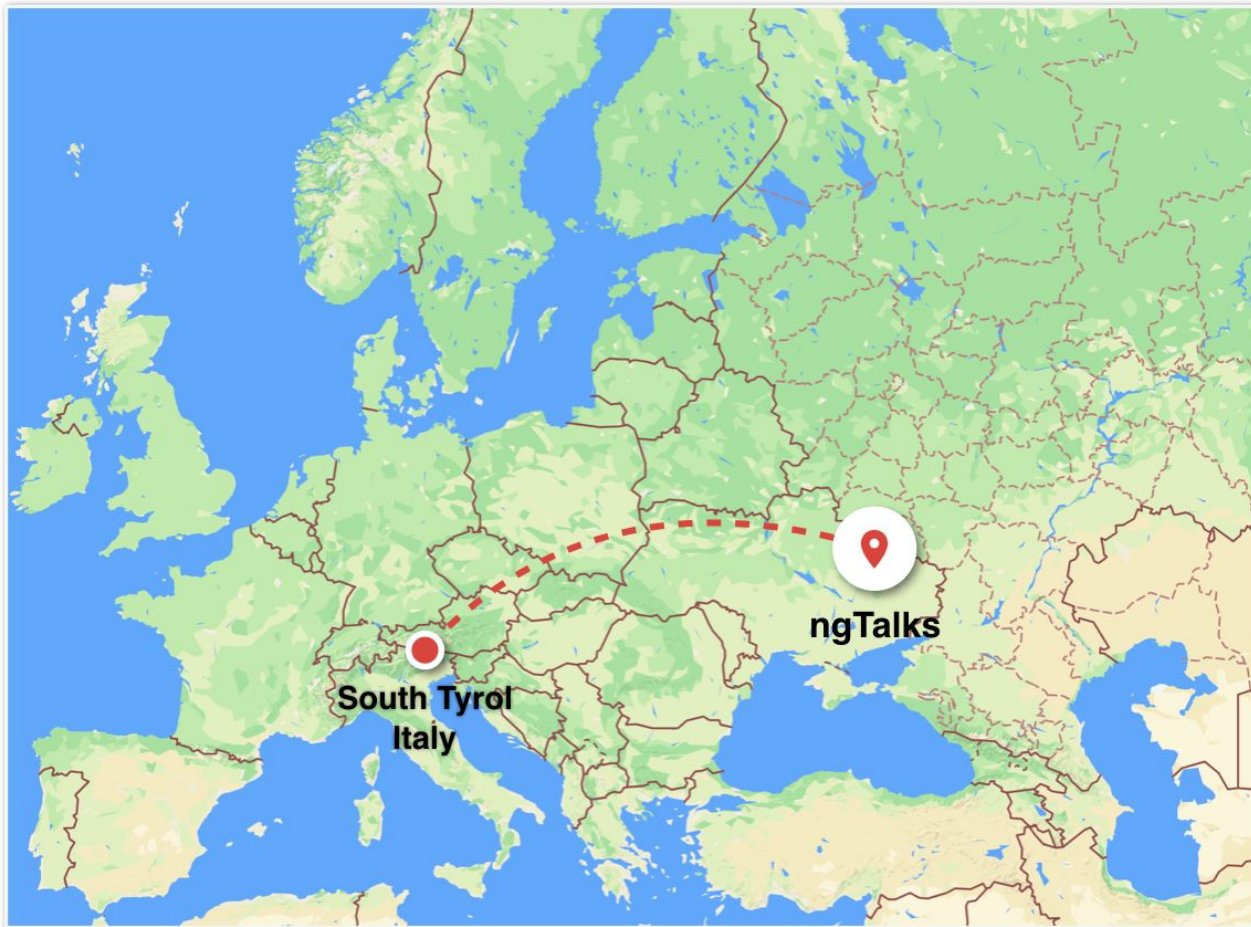


JURI
STRUMPFLOHNER



Google Developers
Experts
Web Technologies







**JURI
STRUMPFLOHNER**



R3-GIS

(r3-gis.com)



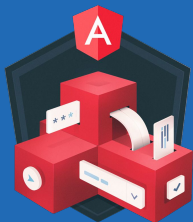
Trainer & Consultant



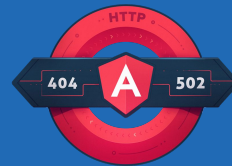
Egghead.io Instructor



Angular Service Injection
with DI



Dynamic Forms



HTTP in Angular



Dynamic Components



egghead.io



Style Angular Components



JURI
STRUMPFLOHNER



<https://juristr.com>



@juristr



github.com/juristr



Template driven
forms

Model-driven
forms



Template driven
forms

Reactive
forms

Template-driven Forms

```
<form #form="ngForm">
  <input matInput placeholder="Name" [(ngModel)]="hero.name" name="name">
  <input matInput placeholder="Age" [(ngModel)]="hero.name" name="age">
  <mat-select placeholder="Superpower"
    [(ngModel)]="hero.superpower" name="superpower">
    <mat-option *ngFor="let power of powers" [value]="power">
      {{ power }}
    </mat-option>
  </mat-select>
  ...
</form>
```

Template-driven Forms

(with some reeeeeeealllyyy simple validation)

```
<form #form="ngForm" (ngSubmit)="onSubmit(form)">
  <input matInput placeholder="Name" [(ngModel)]="hero.name"
    name="name" #nameInput="ngModel" required>
  <mat-error *ngIf="nameInput.invalid && nameInput.hasError('required')">
    Name is required
  </mat-error>
  ...
</form>
```

Template-driven Forms

(with some reeeeeeeallllyyy simple validation)

```
<form #form="ngForm" (ngSubmit)="onSubmit(form)">
  <input matInput placeholder="Name" [(ngModel)]="hero.name"
    name="name" #nameInput="ngModel" required>
  <mat-error *ngIf="nameInput.invalid && nameInput.hasError('required')">
    Name is required
  </mat-error>
  ...
</form>
```

“ You should use
reactive forms !

! Reactive forms are
● more powerful

Reactive Forms

```
export class HeroFormReactiveComponent implements OnInit {
  form: FormGroup;

  constructor(private fb: FormBuilder) {
    this.form = fb.group({
      name: ['', [Validators.required]],
      realName: '',
      superpower: ''
    });
  }

  ngOnInit() {
    this.form.patchValue(this.hero);
  }
}
```

Reactive Forms

```
<form [formGroup]="form" (ngSubmit)="onSubmit(form)">
  <input matInput placeholder="Name" formControlName="name">
  <mat-error *ngIf="form.get('name').invalid && form.get('name').hasError('required')">
    Name is required</mat-error>
  </mat-form-field>

  <input matInput placeholder="Real Name" formControlName="realName">

  <mat-select placeholder="Superpower" formControlName="superpower">
    <mat-option *ngFor="let power of powers" [value]="power">{{ power }}</mat-option>
  </mat-select>

  ...
</form>
```


↻ You Retweeted



Juri Strumpflohner

@juristr



#angular I'm curious, why would you choose reactive forms over template drive forms (or vice versa). What's the decisive factor for your choice? plz comment, thx 😊
#forms #angular

Reactive forms!!

80%

template driven!!!

20%

714 votes · Final results

9:17 PM · Jul 24, 2018

<https://mobile.twitter.com/juristr/status/1021836886753591296>



Meligy A ng-sydney
@Meligy



Replying to @juristr

Reactive forms all the way. Less magic, everything is in clear APIs

6:32 AM · Jul 25, 2018

<https://mobile.twitter.com/Meligy/status/1021976444245864450>



Michael Szczepaniak

@frontend_mike



Replying to @juristr

Complex business validations, tackling it in template driven forms would be a nightmare.

8:31 PM · Jul 25, 2018

https://mobile.twitter.com/frontend_mike/status/1022187601304997888



faz [Ξ]

@_faz

Replying to @juristr

reactive forms easier to test, in my opinion

12:05 AM · Jul 26, 2018

<https://mobile.twitter.com/faz/status/1022241576179957760>



John Papa ✓

@John_Papa



Replying to @juristr

I use both. Template forms in pretty much every tech has always felt a bit too heavy in the markup/UI world. I feel better using code to handle form interactions.

That said, reactive forms are far more than using code to handle forms. It's also reactive (thus the name).

1:04 AM · Jul 25, 2018

https://mobile.twitter.com/John_Papa/status/1021894018240835585



John Papa ✓
@John_Papa



Replying to [@John_Papa](#) and [@juristr](#)

I believe reactive forms are hard to learn and implement for new folks as they have to learn reactive too (yet another concept). Would be interesting to see a code based model driven forms approach.

1:05 AM · Jul 25, 2018

https://mobile.twitter.com/John_Papa/status/1021894018240835585



Olivier Combe

@OCombe



Replying to @juristr

I use both, depending on how complex the form is (simple = template)

9:47 PM · Jul 24, 2018

<https://mobile.twitter.com/OCombe/status/1021844393450463232>



Aleš
@fxck01



Replying to @juristr

I wish I wouldn't have to use either. Easily my least favorite angular package.

7:47 AM · Jul 27, 2018

<https://mobile.twitter.com/fxck01/status/1022720176125562880>

Lots of
typing !

Multiple places

Reactive Forms - Duplicate declarations

```
export class HeroFormReactiveComponent implements OnInit {  
  form: FormGroup;  
  
  constructor(private fb: FormBuilder) {  
    this.form = fb.group({  
      name: ['', Validators.required],  
      realName: '',  
      superpower: ''  
    });  
  }  
  
  ngOnInit() {  
    this.form.patchValue(this.hero);  
  }  
}
```

```
<form [formGroup]="form" (ngSubmit)="onSubmit(form)">  
  <input matInput placeholder="Name" formControlName="name">  
  <mat-error *ngIf="form.get('name').invalid && form.get('name').hasError('required')">  
    Name is required</mat-error>  
</mat-form-field>  
  
  <input matInput placeholder="Real Name" formControlName="realName">  
  
  <mat-select placeholder="Superpower" formControlName="superpower">
```

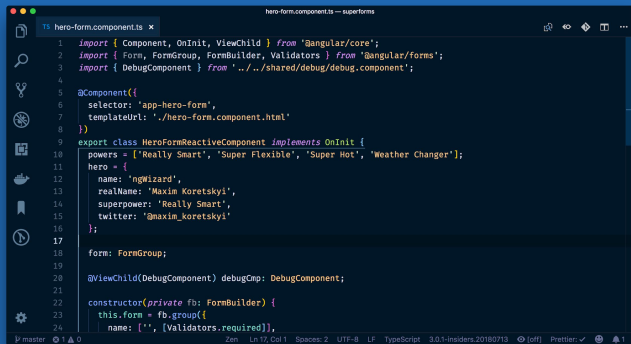
Dynamic Forms



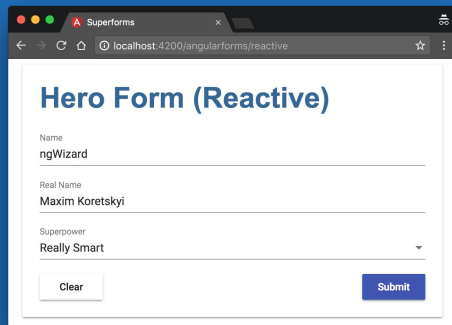
Levels of “dynamicity”

1. We write the configuration in code
HTML is generated
2. User defines the data model
Configuration + HTML is generated

Meaning...



```
1 import { Component, OnInit, ViewChild } from '@angular/core';
2 import { Form, FormGroup, FormBuilder, Validators } from '@angular/forms';
3 import { DebugComponent } from '../shared/debug/debug.component';
4
5 @Component({
6   selector: 'app-hero-form',
7   templateUrl: './hero-form.component.html'
8 })
9 export class HeroFormReactiveComponent implements OnInit {
10   powers = ['Really Smart', 'Super Flexible', 'Super Hot', 'Weather Changer'];
11   hero = {
12     name: 'ngWizard',
13     realName: 'Maxim Koretskiy',
14     superpower: 'Really Smart',
15     twitter: '@maxim_koretskiy'
16   };
17   form = FormGroup;
18
19   @ViewChild(DebugComponent) debugCmp: DebugComponent;
20
21   constructor(private fb: FormBuilder) {
22     this.form = fb.group({
23       name: ['', [Validators.required]]
24     });
25   }
26 }
```



Hero Form (Reactive)

Name
ngWizard

Real Name
Maxim Koretskiy

Superpower
Really Smart

Clear Submit

Change **TypeScript**
code

HTML automatically
updates

Simple, homemade, dyn form

```
@Component({
  selector: 'app-dynamic-form',
  template: `
    <form [formGroup]="form">
      <input type="text" formControlName="firstname">
    </form>
  `
})
export class DynamicFormComponent implements OnInit {
  ...
}
```

Simple, homemade, dyn form

```
@Component({ ... })
export class DynamicFormComponent implements OnInit {
  form: FormGroup;
  firstnameValue = 'Juri';

  ngOnInit() {
    this.form = new FormGroup({
      firstname: new FormControl(this.firstnameValue)
    });
  }
}
```

Simple, homemade, dyn form

```
@Component({
  template: `
    <form [formGroup]="form">
      <input type="text" [formControlName]="fieldName">
    </form>
  `
})
export class DynamicFormComponent implements OnInit {
  fieldName = 'firstname';

  ngOnInit() {
    this.form = new FormGroup({
      [this.fieldName]: new FormControl(this.firstnameValue)
    });
  }
})
```

Let's do this for an entire person object:

```
person = {  
  firstname: 'Juri',  
  age: 33,  
  surname: 'Strumpflohn',  
  twitter: '@juristr'  
};
```

Generate the FormGroup...

```
this.form = new FormGroup({  
  firstname: new FormControl(''),  
  age: new FormControl(''),  
  ...  
});
```

Generate the FormGroup...

```
const formDataObj = Object.keys(this.person).reduce((formObj, prop) => {  
  formObj[prop] = new FormControl(this.person[prop]);  
  return formObj;  
}, {});  
  
this.form = new FormGroup(formDataObj);
```

Generate the FormGroup...

```
const formDataObj = Object.keys(this.person).reduce((formObj, prop) => {  
  formObj[prop] = new FormControl(this.person[prop]);  
  return formObj;  
}, {});  
  
this.form = new FormGroup(formDataObj);
```

Generate the FormGroup...

```
const formDataObj = Object.keys(this.person).reduce((formObj, prop) => {  
  formObj[prop] = new FormControl(this.person[prop]);  
  return formObj;  
}, {});  
  
this.form = new FormGroup(formDataObj);
```


Generate the FormGroup...

```
const formDataObj = Object.keys(this.person).reduce((formObj, prop) => {  
  formObj[prop] = new FormControl(this.person[prop]);  
  return formObj;  
}, {});  
  
this.form = new FormGroup(formDataObj);
```

Generate the FormGroup...

```
const formDataObj = Object.keys(this.person).reduce((formObj, prop) => {  
  formObj[prop] = new FormControl(this.person[prop]);  
  return formObj;  
}, {});
```

```
this.form = new FormGroup(formDataObj);
```

...and finally the template

```
<form [formGroup]="form">
  <mat-form-field class="full-width" *ngFor="let prop of personProps">
    <input matInput type="text" [placeholder]="prop" [formControlName]="prop">
  </mat-form-field>
</form>
```

...and finally the template

```
<form [formGroup]="form">
  <mat-form-field class="full-width" *ngFor="let prop of personProps">
    <input matInput type="text" [placeholder]="prop" [formControlName]="prop">
  </mat-form-field>
</form>
```

...and finally the template

```
<form [formGroup]="form">
  <mat-form-field class="full-width" *ngFor="let prop of personProps">
    <input matInput type="text" [placeholder]="prop" [formControlName]="prop">
  </mat-form-field>
</form>
```

Tada



 @juristr

firstname

Juri

age

33

surname

Strumpflohn

twitter

@juristr

website

<https://juristr.com>

Tada



Debug



Form value

Model

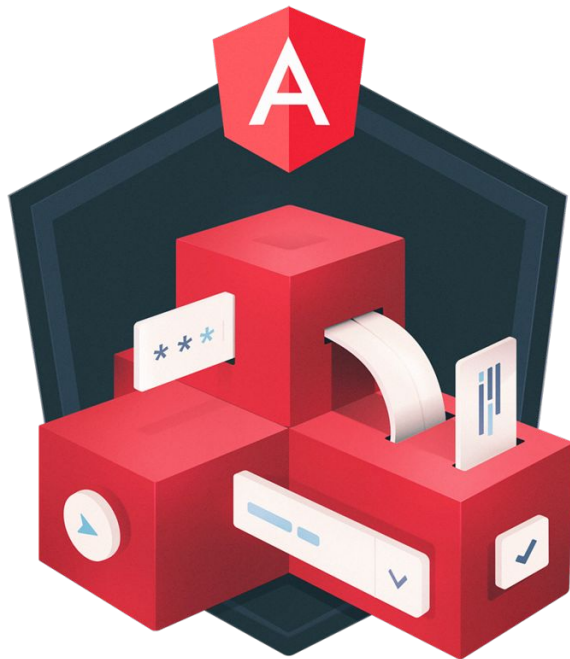
Submitted

```
{
  "firstname": "Juri",
  "age": "33",
  "surname": "Strumpflohnner",
  "twitter": "@juristr",
  "website": "https://juristr.com"
}
```

What about
the **input type**?

Well...bind it as well!

```
<form [formGroup]="form">
  <mat-form-field class="full-width" *ngFor="let prop of personProps">
    <input matInput [type]="prop.type" [formControlName]="prop.name">
  </mat-form-field>
</form>
```



Create Dynamic Forms in Angular

(<https://egghead.io/courses/create-dynamic-forms-in-angular>)

What about
form validation?

What about ...?

...?

Field config



Model

Remember **angular-formly**?

(psst, AngularJS 1.x)



Angular Formly

Easy Reactive Forms in Angular

Get started



[formly-js/ngx-formly](https://github.com/formly-js/ngx-formly)



<https://formly-js.github.io/ngx-formly/>



Angular Material @ngx-formly/material



Bootstrap @ngx-formly/bootstrap



PrimeNG @ngx-formly/primeng



Kendo-UI @ngx-formly/kendo



Ionic @ngx-formly/ionic



NativeScript @ngx-formly/nativescript



@ngx-formly/core

Installation

Installing **ngx-formly**

```
$ npm install @ngx-formly/core  
$ npm install @ngx-formly/material
```

// or

```
$ yarn add @ngx-formly/core  
$ yarn add @ngx-formly/material
```

ng add <magic>

powered by @angular-devkit/schematics



```
$ ng add @ngx-formly/schematics --ui-theme=material
```

Ready to go!

```
@NgModule({  
  declarations: [AppComponent],  
  imports: [  
    ...  
    ReactiveFormsModule,  
    FormlyModule.forRoot(),  
    FormlyMaterialModule  
  ],  
  providers: [],  
  bootstrap: [AppComponent]  
})  
export class AppModule {}
```

Formly

Basics

Firstname

Juri

Surname

Strumpflohn

Twitter

@juristr

Clear

Submit

Field config



Model

Formly Field Configuration

(FormlyFieldConfig)

configs the form

defines “**type**” of fields

property **bindings**

Validation

HTML control properties

(visibility, dependencies, lifecycle)

Formly field configuration

```
fields: FormlyFieldConfig[] = [  
  {  
    key: 'firstname',  
    type: 'input',  
    templateOptions: {  
      label: 'Firstname'  
    }  
  }  
]
```

Model?

data object

want to **modify**

send back to our data store

Model

```
model: Person = {  
  id: 1223,  
  firstname: 'Juri',  
  twitter: '@juristr'  
};
```

Configuring the component template

Component Template

```
<form [formGroup]="form" (ngSubmit)="onSubmit(form)">
  <formly-form [model]="model" [fields]="fields" [form]="form">
    <div>
      <button type="reset" mat-raised-button>Clear</button>
      <button mat-raised-button color="primary">Submit</button>
    </div>
  </formly-form>
</form>
```

Component Template

```
<form [formGroup]="form" (ngSubmit)="onSubmit(form)">
  <formly-form [model]="model" [fields]="fields" [form]="form">
    <div>
      <button type="reset" mat-raised-button>Clear</button>
      <button mat-raised-button color="primary">Submit</button>
    </div>
  </formly-form>
</form>
```

Component Template

```
<form [formGroup]="form" (ngSubmit)="onSubmit(form)">
  <formly-form [model]="model" [fields]="fields" [form]="form">
    <div>
      <button type="reset" mat-raised-button>Clear</button>
      <button mat-raised-button color="primary">Submit</button>
    </div>
  </formly-form>
</form>
```


Component Template

```
<form [formGroup]="form" (ngSubmit)="onSubmit(form)">
  <formly-form [model]="model" [fields]="fields" [form]="form">
    <div>
      <button type="reset" mat-raised-button>Clear</button>
      <button mat-raised-button color="primary">Submit</button>
    </div>
  </formly-form>
</form>
```

Component Template

```
<form [formGroup]="form" (ngSubmit)="onSubmit(form)">
  <formly-form [model]="model" [fields]="fields" [form]="form">
    <div>
      <button type="reset" mat-raised-button>Clear</button>
      <button mat-raised-button color="primary">Submit</button>
    </div>
  </formly-form>
</form>
```

Adjust
input type

input type **number**

age

33

```
{  
  key: 'age',  
  type: 'input',  
  templateOptions: {  
    label: 'Age',  
    type: 'number'  
  }  
}
```

input type **select**

city

Bolzano

```
{  
  key: 'cityId',  
  type: 'select',  
  templateOptions: {  
    label: 'city',  
    options: [  
      {  
        value: 1,  
        label: 'Bolzano'  
      },  
      ...  
    ]  
  }  
}
```

input type **select** (grouping)

```
templateOptions: {  
  label: 'city',  
  options: [  
    {  
      value: 1,  
      label: 'Bolzano',  
      group: 'Europe'  
    }  
  ],  
  groupProp: 'group',  
  valueProp: 'value',  
  labelProp: 'label',  
}
```

Europe

Bolzano

Berlin

North America

San Francisco

Observable support



select with observables

```
import { of } from 'rxjs';  
...  
cities$ = of([  
  {  
    value: 1,  
    label: 'Bolzano',  
    group: 'Europe'  
  },  
  {  
    value: 2,  
    label: 'Berlin',  
    group: 'Europe'  
  },  
  ...  
]);
```


select with observables

```
{  
  key: 'cityId',  
  type: 'select',  
  templateOptions: {  
    label: 'city',  
    options: this.cities$,  
    groupProp: 'group'  
  }  
}
```

Expressions

Visibility, disabled/enabled,...

enable/disable based on another field

```
{  
  key: 'zipCode',  
  type: 'input',  
  templateOptions: {  
    label: 'ZipCode'  
  },  
  expressionProperties: {  
    'templateOptions.disabled': '!model.cityId'  
  }  
}
```

city



ZipCode

enable/disable based on another field

```
{  
  key: 'zipCode',  
  type: 'input',  
  templateOptions: {  
    label: 'ZipCode'  
  },  
  expressionProperties: {  
    'templateOptions.disabled': (model, formState) => !model.cityId  
  }  
}
```

city



ZipCode

Psst! v5 will have observable expressions

```
{
  key: 'zipCode',
  type: 'input',
  templateOptions: {
    label: 'ZipCode'
  },
  expressionProperties: {
    'templateOptions.disabled': this.someObservable$
  }
}
```

city

ZipCode

Hide expressions

```
{  
  template: `

<strong>Awesome</strong>, thanks for choosing your city!</p>`,  
  hideExpression: model => !model.cityId  
}


```

city

Bolzano



ZipCode

Awesome, thanks for choosing your city!


Input validation

Name *

This field is required
age

15

Sorry, you have to be of legal age.

city 

Formly got you covered as well



Basic validators (required, min, max,...)

```
{  
  key: 'name',  
  type: 'input',  
  templateOptions: {  
    label: 'Name',  
    required: true  
  }  
}
```

Validation Messages - Globally

```
@NgModule({
  ...
  imports: [
    FormlyModule.forRoot({
      validationMessages: [
        { name: 'required', message: 'This field is required' }
      ]
    }),
    ...
  ]
})

export class AppModule {}
```

Validation Messages - Locally

```
{
  ...
  templateOptions: {
    label: 'age',
    type: 'number',
    min: 18
  },
  validation: {
    messages: {
      min: 'Sorry, you have to be of legal age.'
    }
  }
}
```

Conditional required validation? Here ya go!

```
{
  key: 'zipCode',
  type: 'input',
  templateOptions: {
    label: 'Zip Code'
  },
  expressionProperties: {
    'templateOptions.required': model => !!model.cityId
  }
}
```



Show me some !
Advanced stuff !

Dependent Fields

Nation

Italy



city

Rome



Clear

Submit

Lifecycle hooks

```
},
  lifecycle {
  },
},
{
  key afterContentChecked?
  type afterContentInit?
  type afterViewChecked?
  type afterViewInit?
  type doCheck?
  type onChanges?
  type onDestroy?
},
  type onInit?
```


Lifecycle hooks

```
{
  key: 'cityId',
  type: 'select',
  templateOptions: {
    label: 'city'
  },
  lifecycle: {
    onInit: (form, field, model) => {
      ...
    }
  }
}
```

Lifecycle hooks

```
{  
  ...  
  lifecycle: {  
    onInit: (form, field, model) => {  
      form.get('nationId').valueChanges.pipe(  
        tap(nationId => {  
          field.formControl.setValue(null);  
          field.templateOptions.options = this.cities$.pipe(  
            map(cities => cities.filter(x => x.nationId === nationId))  
          );  
        }  
      ),  
      takeUntil(this.destroy$)  
    ).subscribe();  
  }  
}
```

Lifecycle hooks

```
{
  ...
  lifecycle: {
    onInit: (form, field, model) => {
      form.get('nationId').valueChanges.pipe(
        tap(nationId => {
          field.formControl.setValue(null);
          field.templateOptions.options = this.cities$.pipe(
            map(cities => cities.filter(x => x.nationId === nationId))
          );
        })
      ),
      takeUntil(this.destroy$)
    ).subscribe();
  }
}
```

Lifecycle hooks

```
{
  ...
  lifecycle: {
    onInit: (form, field, model) => {
      form.get('nationId').valueChanges.pipe(
        tap(nationId => {
          field.formControl.setValue(null);
          field.templateOptions.options = this.cities$.pipe(
            map(cities => cities.filter(x => x.nationId === nationId))
          );
        })
      ),
      takeUntil(this.destroy$)
    ).subscribe();
  }
}
```

Lifecycle hooks

```
{
  ...
  lifecycle: {
    onInit: (form, field, model) => {
      form.get('nationId').valueChanges.pipe(
        tap(nationId => {
          field.formControl.setValue(null);
          field.templateOptions.options = this.cities$.pipe(
            map(cities => cities.filter(x => x.nationId === nationId))
          );
        }),
        takeUntil(this.destroy$)
      ).subscribe();
    }
  }
}
```

Custom FormControls

extend ngx-formly

City

B ✕ ▼

- Bolzano
- Berlin

<https://github.com/ng-select/ng-select>

Create a Formly Type

Works as a wrapper around components

```
@Component({
  selector: 'formly-ng-select',
  template: `
    <div class="mat-input-infix mat-form-field-infix">
      <ng-select [items]="to.options | async"...>
      </ng-select>
    </div>
  `,
})
export class NgSelectFormlyComponent extends FieldType {}
```


Create a Formly Type

Works as a wrapper around components

```
@Component({
  selector: 'formly-ng-select',
  template: `
    <div class="mat-input-infix mat-form-field-infix">
      <ng-select [items]="to.options" | async"...>
      </ng-select>
    </div>
  `
})
export class NgSelectFormlyComponent extends FieldType {}
```

Create a Formly Type

```
<div class="mat-input-infix mat-form-field-infix">
  <ng-select [items]="to.options | async"
    [placeholder]="to.label"
    [bindValue]="to.bindValue || 'value'"
    [formControl]="formControl"
    [class.is-invalid]="showError">
  </ng-select>
</div>

export class NgSelectFormlyComponent extends FieldType {}
```

Create a Formly Type

```
<div class="mat-input-infix mat-form-field-infix">
  <ng-select [items]="to.options | async"
    [placeholder]="to.label"
    [bindValue]="to.bindValue || 'value'"
    [formControl]="formControl"
    [class.is-invalid]="showError">
  </ng-select>
</div>
```

"to" = TemplateOptions
Inherited from FieldType

```
export class NgSelectFormlyComponent extends FieldType {}
```

Register the new Formly Type

```
FormlyModule.forRoot({  
  ...  
  types: [  
    {  
      name: 'my-autocomplete',  
      component: NgSelectFormlyComponent  
    }  
  ]  
})
```

Use it!

```
fields: FormlyFieldConfig[] = [  
  {  
    key: 'cityId',  
    type: 'my-autocomplete',  
    templateOptions: {  
      label: 'City',  
      options: this.cityService.getCities()  
    }  
  }  
];
```

Read the source!



<https://github.com/formly-js/ngx-formly/tree/master/src/material>

Custom “DSL”

Reusability FTW!

Create a Formly Service

```
@Injectable(...)  
export class FormlyService {  
  input(config: R3FormlyFieldConfig): FormlyFieldConfig {}  
  number(config: R3FormlyFieldConfig): FormlyFieldConfig {}  
  select(config: R3FormlyFieldConfig): FormlyFieldConfig {}  
  autocomplete(config: R3FormlyFieldConfig): FormlyFieldConfig {}  
  ...  
}
```


..then in your component

```
fields: FormlyFieldConfig[] = [  
  this.formly.input({ key: 'firstname', label: 'Firstname' }),  
  this.formly.input({ key: 'surname', label: 'Surname' }),  
  this.formly.number({ key: 'age', label: 'Age' }),  
  this.formly.select({  
    key: 'cityId',  
    label: 'City',  
    data: this.cityService.getCities()  
  })  
];
```

You can even go a step further...

```
fields: FormlyFieldConfig[] = [  
  this.formly.input({ key: 'firstname', label: 'Firstname' }),  
  this.formly.input({ key: 'surname', label: 'Surname' }),  
  this.formly.number({ key: 'age', label: 'Age' }),  
  
  this.formly.citySelect()  
];
```



- Avoid repetitive Formly config
- Reuse!
- Tailored to your app
- Easier handle (potentially) breaking changes on Formly

Repeats

Tabs Form

Forms with Datable

Nested Forms

Multi-step

Flex based layouts

JSON powered

<https://formly-js.github.io/ngx-formly/examples/introduction>

Concluding

“ When I’m doing a project it’s not a question *if* I’ll add Formly, the question is *when* I’ll add it.



Bram Borggreve
[@beeman_nl](#)

Powerful!

- Forms are super easy and fast to write!
- highly customizable & flexible (custom formly types,..)
- lots of forms, heavy data-driven apps
- High reusability across your various forms
- when you truly have dynamic data models, defined by your user

Needs more work when...

- Lots of varying & very particular form layouts
- 3rd party UI controls (of a lib not supported by ngx-formly)
- Having a custom company style guide that is not based either on Material nor Bootstrap etc...

Thanks!



Abdellatif Ait boudad

@aitboudad

Core Maintainer of ngx-formly



JURI
STRUMPFLOHNER

Questions?

Reach out to me later &
connect with me on Twitter



@juristr