

### CDK

Common Behaviors	Accessibility
	Bidirectionality
	Drag and Drop
	Layout
	Observers
	Overlay
	Platform
	Portal
	Scrolling
	Text field

Components	Stepper
	Table
	Tree

### Components

Form Controls	Autocomplete
	Checkbox
	Datepicker
	Form field
	Input
	Radio button
	Select
	Slider
	Slide toggle

Navigation	Menu
	Sidenav
	Toolbar

Layout	Card
	Divider
	Expansion Panel
	Grid list
	List
	Stepper
	Tabs
	Tree

Buttons & Indicators	Button
	Button toggle
	Badge
	Chips
	Icon
	Progress spinner
	Progress bar
	Ripples

### Components (cont)

Popups & Modals	Bottom Sheet
	Dialog
	Snackbar
	Tooltip

Data table	Paginator
	Sort header
	Table

### Schematics

#### address-form

Component with a form group that uses Material Design form controls to prompt for a shipping address

#### navigation

Creates a component with a responsive Material Design sidenav and a toolbar for showing the app name

#### dashboard

Component with multiple Material Design cards and menus which are aligned in a grid layout

#### table

Generates a component with a Material Design data table that supports sorting and pagination

#### tree

Component that interactively visualizes a nested folder structure by using the `<mat-tree>` component

#### drag-drop\*

Component that uses the `@angular/cdk/drag-drop` directives for creating an interactive to-do list

```
ng g @angular/material:<schematics> <name>
```

```
*ng g @angular/cdk:drag-drop <name>
```



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Page 2 of 4.

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### Autocomplete

#### Simple

```
<mat-form-field>
  <input type="text"
    matInput
    [formControl]="myControl"
    [matAutocomplete]="auto">
</mat-form-field>

<mat-autocomplete
  #auto="matAutocomplete">
  <mat-option
    *ngFor="let option of options"
    [value]="option">
    {{option}}
  </mat-option>
</mat-autocomplete>

export class AutocompleteSimpleExample {
  myControl = new FormControl();
  options: string[] = ['One', 'Two', 'Three'];
}
```

#### Filter

```
<mat-option
  *ngFor="let option of options | async"
  [value]="option">

options: Observable<string[]>;

ngOnInit() {
  this.options =
    this.myControl.valueChanges
      .pipe(
        startWith(''),
        map(value => this._filter(value))
      );
}

private _filter(value: string: string[] {
  ...
  return filteredArray;
}
```

## Group

```
<mat-autocomplete
  #auto="matAutocomplete">
  <mat-optgroup
    ngFor="let group of groups | async"
    [label]="group.name">
    <mat-option
      ngFor="let option of group.options"
      [value]="option">
      {{option.name}}
    </mat-option>
  </mat-optgroup>
</mat-autocomplete>
```



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