



Material Angular

Presented by Marco Leonardini

GDG La Paz Meetup Angular





Getting Started

Angular - Material Design

Angular





One framework.

Mobile & desktop.

-  Develop across all platforms
-  Speed & performance
-  Incredible tooling
-  Loved by millions





Material Design

Create intuitive and beautiful products with Material Design.

-  Clean and attractive
-  Lot's of spacing between items
-  Looks a lot familiar
-  Motion provides meaning

Angular Material

Material Design
components for Angular

-  Sprint from Zero to App
-  Fast & Consistent
-  Versatile & Themable
-  Optimized Angular

Installation

The image features a dark blue horizontal bar that spans most of the width of the frame. The bar has a 3D effect, with a triangular arrowhead pointing to the right. The background consists of several vertical stripes of varying shades of blue, creating a textured, layered appearance. The word "Installation" is written in a clean, white, sans-serif font, centered within the dark blue bar.



Installation Angular Material

Install & configure

Step 1: Install Angular Material, Angular CDK and Angular Animations

```
npm install --save @angular/material @angular/cdk @angular/animations
```

Step 2: Configure animations

```
import {BrowserAnimationsModule} from '@angular/platform-browser/animations';

@NgModule({
  ...
  imports: [BrowserAnimationsModule],
  ...
})
```

Installation Angular Material

Install & configure



Step 3: Import the component modules

```
import {MatButtonModule, MatCheckboxModule} from '@angular/material';

@NgModule({
  ...
  imports: [MatButtonModule, MatCheckboxModule],
  ...
})
export class PizzaPartyAppModule { }
```




Installation Angular Material

Install & configure

Step 4: Include a theme using the styles.css file

```
@import "~@angular/material/prebuilt-themes/indigo-pink.css";
```

Step 5: Gesture Support

```
npm install --save hammerjs
```

Installation Angular Material

Install & configure



Step 6 (Optional): Add Material Design Icons

```
<link href="https://fonts.googleapis.com/icon?family=Material+Icons" rel="stylesheet">
```

Form Controls

User input

Form Controls

User input



Autocomplete



Suggests relevant options as the user types.

Checkbox



Captures boolean input with an optional indeterminate mode.

Datepicker



Captures dates, agnostic about their internal representation.

Form field

Wraps input fields so they are displayed consistently.

Input



Enables native inputs to be used within a Form field.

Radio button



Allows the user to select one option from a group.

Select



Allows the user to select one or more options using a dropdown.

Slider



Allows the user to input a value by dragging along a slider.

Slide toggle



Captures boolean values as a clickable and draggable switch.

Form Controls

User input



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

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

Form Controls

Autocomplete



Simple autocomplete <> [icon]

Pick one

- One
- Two
- Three

Option groups autocomplete <> [icon]

States Group *

new |

- N
- New Hampshire
- New Jersey
- New Mexico
- New York

Form Controls

Checkbox & Radio button



```
<mat-radio-group>  
  <mat-radio-button value="1">Option 1</mat-radio-button>  
  <mat-radio-button value="2">Option 2</mat-radio-button>  
</mat-radio-group>
```

☐ Option 1 ☒ Option 2

```
<mat-checkbox>Check me!</mat-checkbox>
```

☒ Check me!

Form Controls

DatePicker




```
<mat-form-field>
  <input matInput [matDatepicker]="picker" placeholder="Choose a date">
  <mat-datepicker-toggle matSuffix [for]="picker"></mat-datepicker-toggle>
  <mat-datepicker #picker></mat-datepicker>
</mat-form-field>
```




Form Controls

DatePicker






Basic datepicker

Choose a date 

FEB 2019  

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		

Choose a date 

2016 – 2039  

2016	2017	2018	2019
2020	2021	2022	2023
2024	2025	2026	2027
2028	2029	2030	2031
2032	2033	2034	2035
2036	2037	2038	2039

Form Controls

Input



```
<form class="example-form">
  <mat-form-field class="example-full-width">
    <input matInput placeholder="Favorite food" value="Sushi">
  </mat-form-field>

  <mat-form-field class="example-full-width">
    <textarea matInput placeholder="Leave a comment"></textarea>
  </mat-form-field>
</form>
```

Form Controls

Basic input



Basic Inputs

Favorite food

Sushi

Leave a comment

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do
eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim
ad minim veniam

Layouts

The image features a dark blue horizontal bar that spans most of the width of the frame. The bar has a 3D effect, with a triangular arrowhead pointing to the right. The background consists of several vertical stripes of varying shades of blue, creating a textured, layered appearance. The word "Layouts" is written in a white, sans-serif font on the left side of the dark bar.

Layouts

Cards



```
<mat-card class="example-card">
  <mat-card-header>
    <div mat-card-avatar class="example-header-image"></div>
    <mat-card-title>Shiba Inu</mat-card-title>
    <mat-card-subtitle>Dog Breed</mat-card-subtitle>
  </mat-card-header>
  
    <p>
      The Shiba Inu is the smallest of the six original and distinct spitz breeds of dog
      A small, agile dog that copes very well with mountainous terrain, the Shiba Inu was
      bred for hunting.
    </p>
  </mat-card-content>
  <mat-card-actions>
    <button mat-button>LIKE</button>
    <button mat-button>SHARE</button>
  </mat-card-actions>
</mat-card>
```



Layouts

Expansion panel



Expansion panel as accordion

<>

Personal data

Type your name and age

First name Age

Next

Destination

Type the country name

Day of the trip

Inform the date you wish to travel

Layouts

List stepper & Tabs



Stepper overview

<>

Enable linear mode

1 Fill out your name

2 Fill out your address

3 Done

Last name, First name *

Next

Layouts

List stepper & Tabs



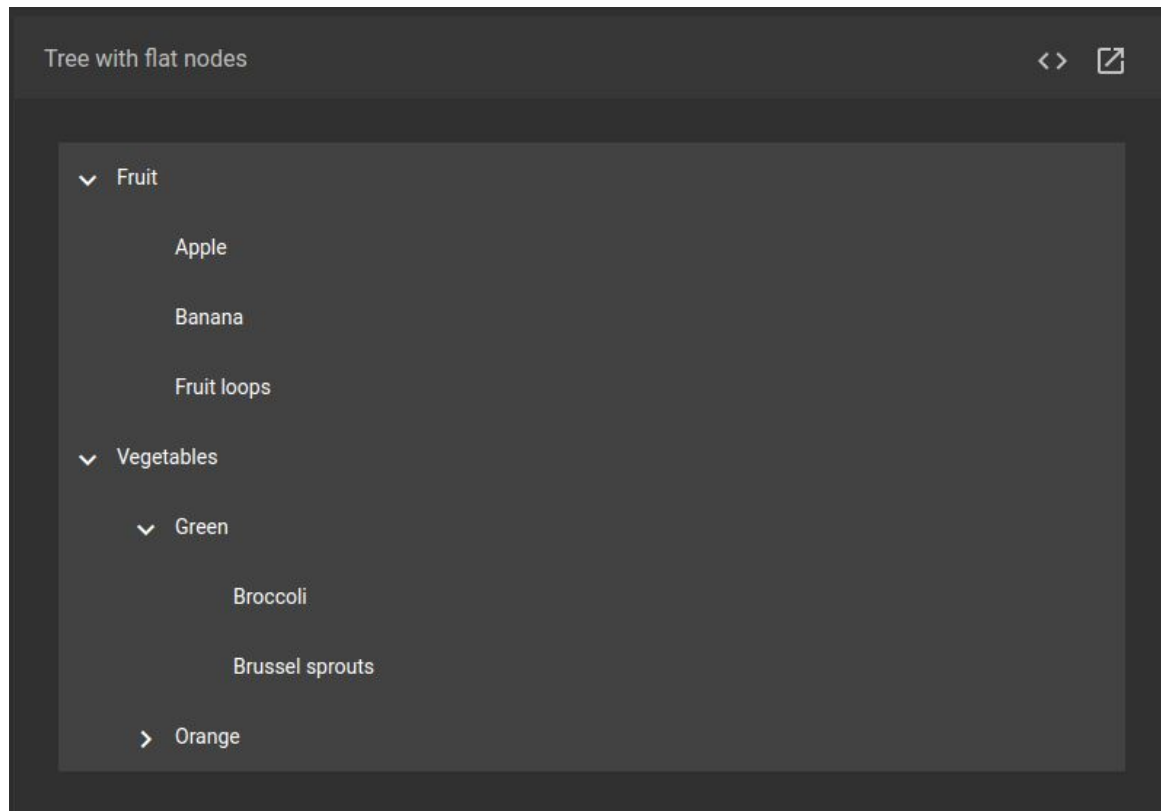
```
<mat-tab-group>
  <mat-tab label="First"> Content 1 </mat-tab>
  <mat-tab label="Second"> Content 2 </mat-tab>
  <mat-tab label="Third"> Content 3 </mat-tab>
</mat-tab-group>
```

Basic use of the tab group

First	Second	Third
Content 1		

Layouts

Trees



Buttons & indicators

Buttons & indicators

Buttons

```
<button mat-button>Click me!</button>
```

Attribute

mat-button

mat-raised-button

mat-flat-button

mat-stroked-button

mat-icon-button

mat-fab

mat-mini-fab

Basic Buttons

Basic

Primary

Accent

Warn

Disabled

Link

Raised Buttons

Basic

Primary

Accent

Warn

Disabled

Link

Stroked Buttons

Basic

Primary

Accent

Warn

Disabled

Link

Flat Buttons

Basic

Primary

Accent

Warn

Disabled

Link

Icon Buttons



Fab Buttons

Basic

Primary

Accent

Warn

Disabled



Link



Buttons & indicators

Badge

```
<p>
  <span matBadge="4" matBadgeOverlap="false">Text with a badge</span>
</p>

<p>
  Button with a badge on the left
  <button mat-raised-button color="primary"
    matBadge="8" matBadgePosition="before" matBadgeColor="accent">
    Action
  </button>
</p>

<p>
  Icon with a badge
  <mat-icon matBadge="15" matBadgeColor="warn">home</mat-icon>
</p>
```

Badge overview

Text with a badge

4

Button with a badge on the left

8

Action

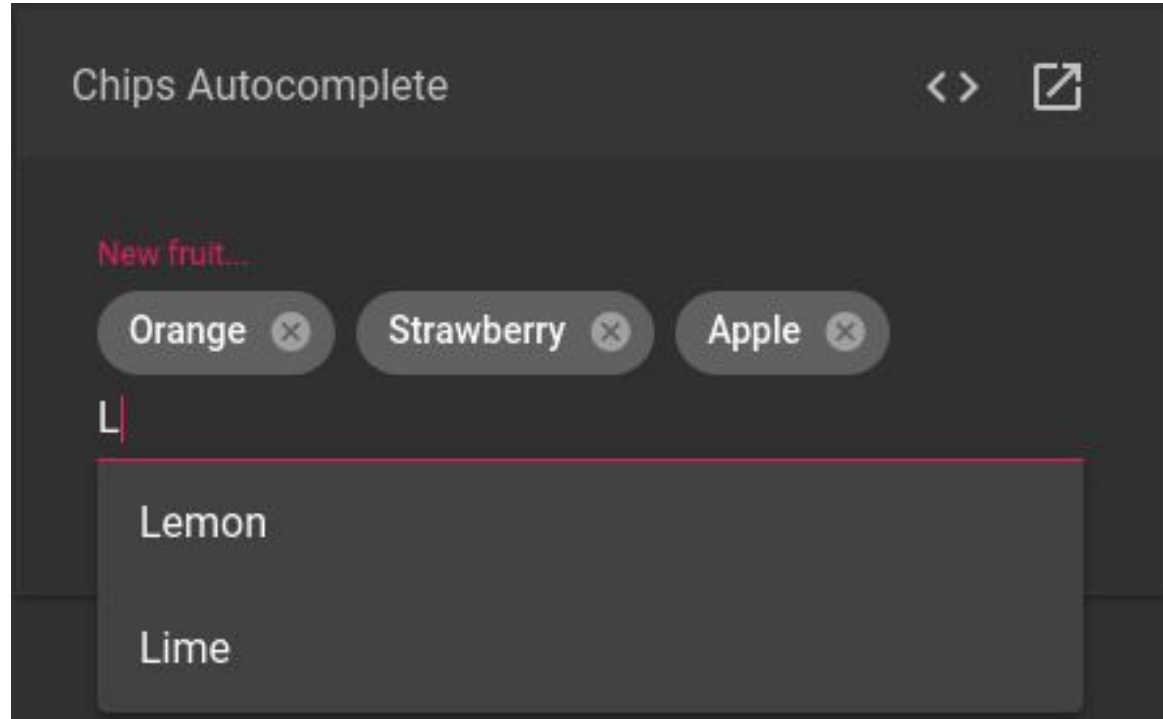
Icon with a badge



15

Buttons & indicators

Chips





Buttons & indicators

Progress Spinner & Progress Bar

```
<mat-spinner></mat-spinner>
```



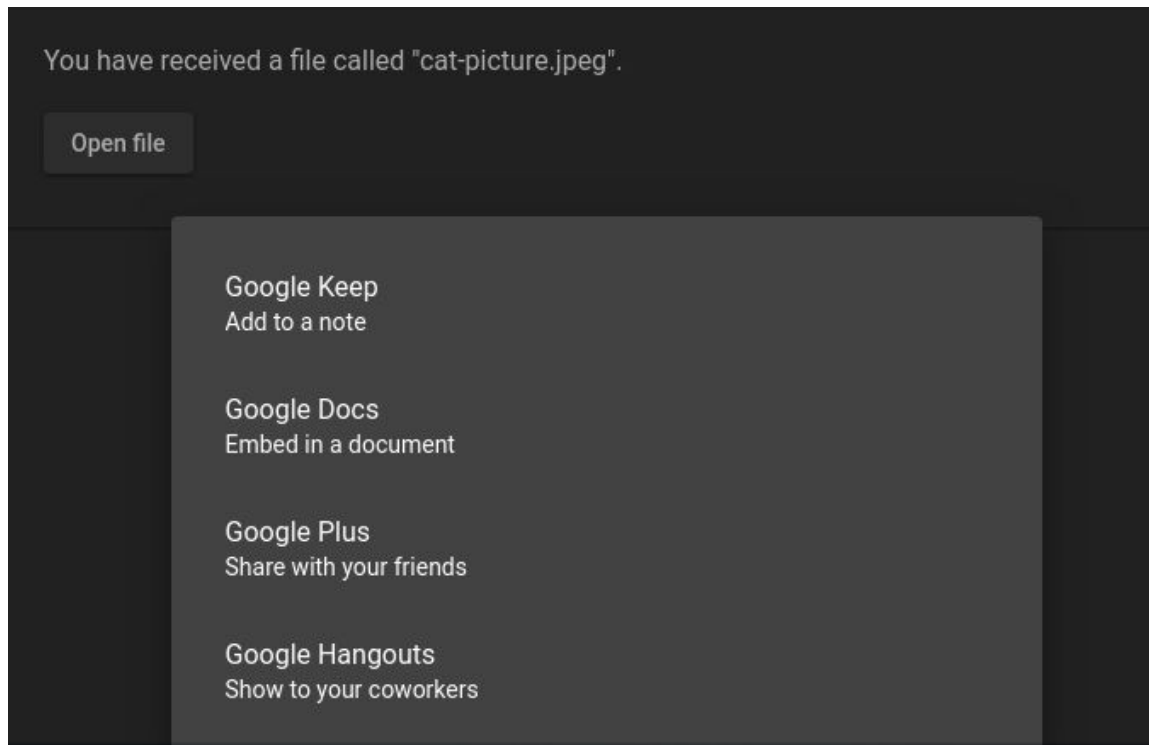
```
<mat-progress-bar mode="determinate" value="40"></mat-progress-bar>
```



Popups & modals

Popups & modals

Bottom sheet



Popups & modals

Dialog



Dialog Overview

What's your name?

1. Marco Leonardini
2.

Hi Marco Leonardini

What's your favorite animal?

Cats

No Thanks Ok

Popups & modals

Snackbar



Basic snack-bar

Message

Action

Meetup Angular!!

Close

Show snack-bar

Meetup Angular!!

Close

Popups & modals

Tooltips



```
<button mat-raised-button  
  matTooltip="Info about the action"  
  aria-label="Button that displays a tooltip"  
  Action  
</button>
```

Tooltip with a custom position

Tooltip position

after



Action



Info about the action

Tables

The image features a dark blue horizontal bar that spans most of the width of the frame. The bar has a 3D effect, with a triangular arrowhead pointing to the right. The background consists of several vertical stripes of varying shades of blue, creating a textured effect.

Tables



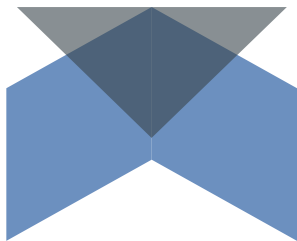
Data table with sorting, pagination, and filtering.



Filter
Lime

ID	Name ↑	Progress	Color
72	Amelia T.	55%	lime
70	Asher A.	60%	lime
48	Charlotte O.	1%	lime
6	Isla A.	41%	lime
81	Oliver I.	34%	lime

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Thanks!!!