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# Installation

Install Material UI, the world's most popular React UI framework.



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ads via Carbon

## Default installation

Run one of the following commands to add Material UI to your project:

npm

```
npm install @mui/material @emotion/react @emotion/styled
```

yarn

```
yarn add @mui/material @emotion/react @emotion/styled
```

## With styled-components

Material UI uses [Emotion](#) as its default styling engine. If you want to use [styled-components](#) instead, run one of the following commands:

npm

```
npm install @mui/material @mui/styled-engine-sc styled-components
```

yarn

```
yarn add @mui/material @mui/styled-engine-sc styled-components
```

Visit the [Styled engine guide](#) for more information about how to configure styled-components.

## Peer dependencies

Please note that [react](#) and [react-dom](#) are peer dependencies too:

```
"peerDependencies": {  
  "react": "^17.0.0 || ^18.0.0",  
  "react-dom": "^17.0.0 || ^18.0.0"  
},
```

## Roboto font

Material UI is designed to use the [Roboto](#) font by default. You may add it to your project with npm or yarn via [Fontsource](#), or with the Google Fonts CDN.

### npm

```
npm install @fontsource/roboto
```

### yarn

```
yarn add @fontsource/roboto
```

Then you can import it in your entry point like this:

```
import '@fontsource/roboto/300.css';  
import '@fontsource/roboto/400.css';  
import '@fontsource/roboto/500.css';  
import '@fontsource/roboto/700.css';
```

Fontsource can be configured to load specific subsets, weights and styles. Material UI's default typography configuration relies only on the 300, 400, 500, and 700 font weights.

## Google Web Fonts

To install the Roboto font in your project using the Google Web Fonts CDN, add the following code snippet inside your project's `<head />` tag:

```
<link
  rel="stylesheet"
  href="https://fonts.googleapis.com/css?family=Roboto:300,400,500,700&display=swap"
/>
```

## Icons

To use the [font Icon component](#) or the prebuilt SVG Material Icons (such as those found in the [icon demos](#)), you must first install the [Material Icons](#) font. You can do so with npm or yarn, or with the Google Web Fonts CDN.

### npm

```
npm install @mui/icons-material
```

### yarn

```
yarn add @mui/icons-material
```

## Google Web Fonts

To install the Material Icons font in your project using the Google Web Fonts CDN, add the following code snippet inside your project's `<head />` tag:

To use the font `Icon` component, you must first add the [Material Icons](#) font. Here are [some instructions](#) on how to do so. For instance, via Google Web Fonts:

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

## CDN

You can start using Material UI right away with minimal front-end infrastructure by installing it via CDN, which is a great option for rapid prototyping. Follow [this CDN example](#) to get started.

We do *not* recommend using this approach in production. It requires the client to download the entire library—regardless of which components are actually used—which negatively impacts performance and bandwidth utilization.

Two Universal Module Definition (UMD) files are provided:

- one for development: <https://unpkg.com/@mui/material@latest/umd/material-ui.development.js>
- one for production: <https://unpkg.com/@mui/material@latest/umd/material-ui.production.min.js>

The UMD links use the `latest` tag to point to the latest version of the library. This pointer is *unstable* and subject to change as we release new versions. You should consider pointing to a specific version, such as [v5.0.0](#).