Merge Font Awesome with Angular Material in Angular 8

by *Shuichi Ohtsu*

Video commentary (Japanese)
https://youtu.be/EOm-kaKMm3U

Video commentary (English)
https://youtu.be/R5p4qe--usE

Integrate Font Awesome with Angular Material

I think Angular users often use Angular Material.

However, in Angular Material, *mat-icon* can be used, but unfortunately it can not be said that there are many icons. So, while using Angular Material, we need to consider how to use Font Awesome.

I introduced *Font Awesome to Angular Material in Angular7* https://qiita.com/SOhtsu/items/77ffb011833264d452a7, but since Angular8 was released this time, I tried it with the same settings. I understand that an error occurs.

So, this time, I am going to introduce how to use Font Awesome in Angular 8.
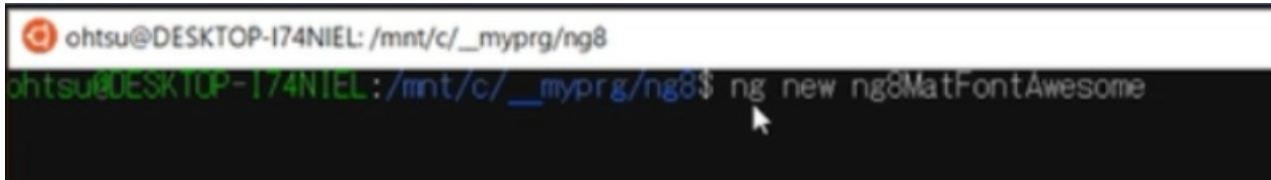
Create a new project in Angular 8

First, create a new project in Angular 8.

here,

Enter `ng new ng8MatFontAwesome`.

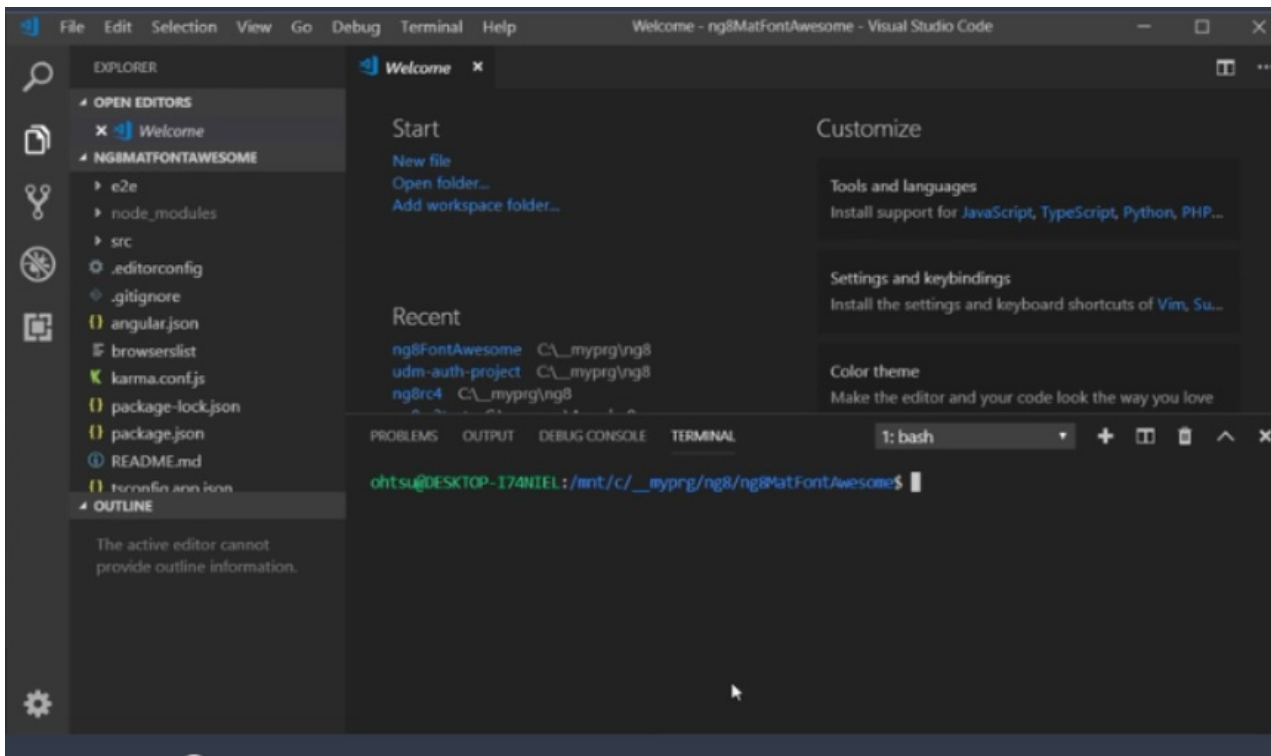`ng8MatFontAwesome` is a project name, and any name will do

This process takes some time.

Start Visual Studio Code

Navigate to the project directory created and enter `code` . to open Visual Studio Code.

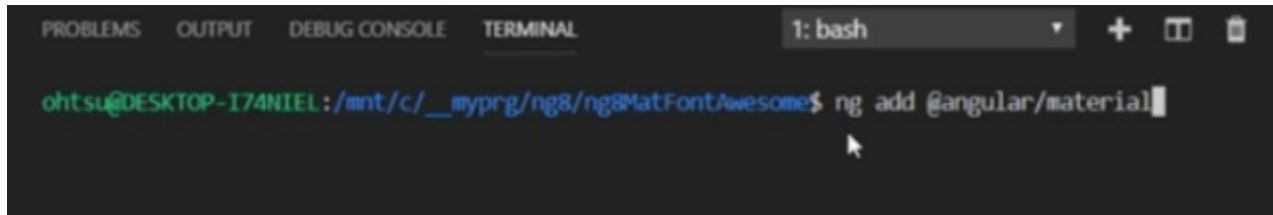Then press Ctrl + Back Quote key to open a terminal window within Visual Studio Code.

Install Angular Material

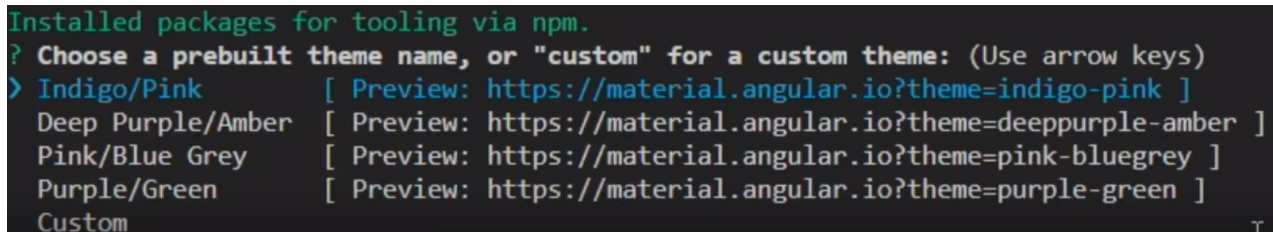First, install Angular Material in the project.
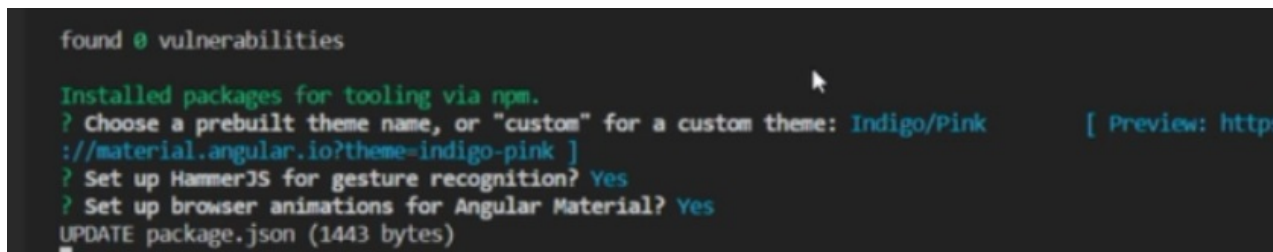
In the terminal window,

Enter

```
ng add @angular/material.
```


Then you will be asked to select a built-in theme, so here we are gong to select the default *indigo-pink*.

When asked if you want to install *Hammer JS* next, select Yes.
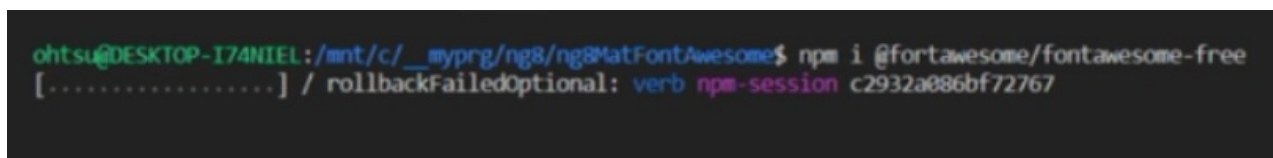
Next, select Yes, whether or not to use animation.

The installation will then begin.

Install Font Awesome

Next, install Font Awesome with npm.

Enter

```
npm i @fortawesome/fontawesome-free.
```


Be careful with the spelling. The next character of @ is not
`fontawesome` but `fortawesome`.

Import the Font Awesome into angular.json

Next, open the `angular.json` file in the project root directory and insert the import statement.

`" ./node_modules/@fortawesome/fontawesome-free/css/all.min.css ",`

Add as below.

```
"projects": {
  "ng8MatFontAwesome": {
    "projectType": "application",
    "schematics": {
      "@schematics/angular: component": {
        "style": "scss"
      }
    },
    "root": "",
    "sourceRoot": "src",
    "prefix": "app",
    "architect": {
      "build": {
        "builder": "@angular-devkit/build-angular: browser",
        "options": {
          "outputPath": "dist/ng8MatFontAwesome",
          "index": "src/index.html",
          "main": "src/main.ts",
          "polyfills": "src/polyfills.ts",
          "tsConfig": "tsconfig.app.json",
          "assets": [
            "src/favicon.ico",
            "src/assets"
          ],
          "styles": [
            "./node_modules/@angular/material/prebuilt-themes/indigo-pink.css
            "./node_modules/@fortawesome/fontawesome-free/css/all.min.css",
            "src/styles.scss"
```


Confirm starting of local server

Here we check the start of the local server once.

In the terminal window

Type `ng s -o`.

The browser will open automatically.
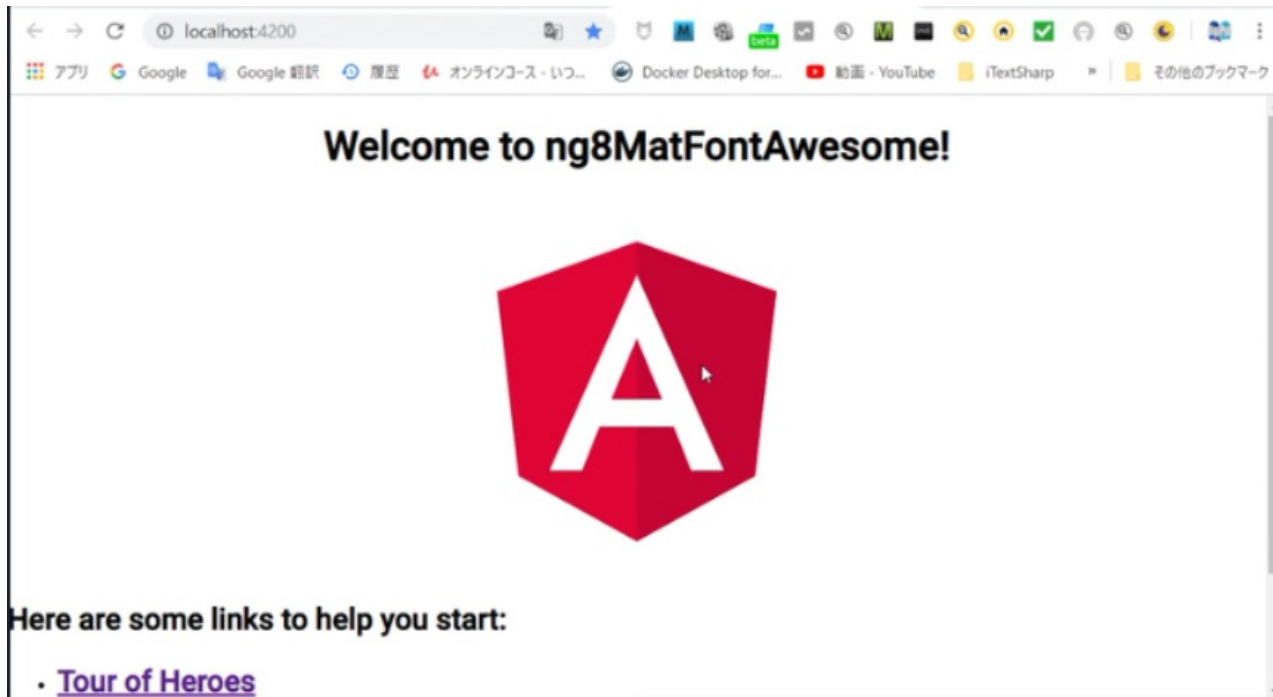
OK.

Modify of app.module.ts

In order to use Angular Material buttons etc., it is necessary to import Angular Material modules.

Open the `app.module.ts` file and import the `MatIconModule` and `MatButtonModule` that will be used here.

```
@NgModule({
  declarations: [
    AppComponent
  ],
  imports: [
    BrowserModule,
    AppRoutingModule,
    MatButtonModule,
    MatIconModule,
    BrowserAnimationsModule
  ],
```

Edit HTML file

Next, edit the HTML file.

Open the `app.component.html` file in `src/app`. This file defines the default top page.

First, set the button with mat-button. And then insert the Font Awesome icon into this.

The only way to do this is to set Font Awesome *fontset* and *fontIcon* in the *mat-icon* settings.

Here we set the Google icon.

```
1   <!--The content below is only a placeholder and can be replaced.-->
2   <div style="text-align:center">
3
4
5     <button mat-raised-button color="accent">
6       <mat-icon fontSet="fab" fontIcon="fa-google" inline></mat-icon>
7     Google
8     </button>
9     <h1>
10      Welcome to {{ title }}!
11    </h1>
```
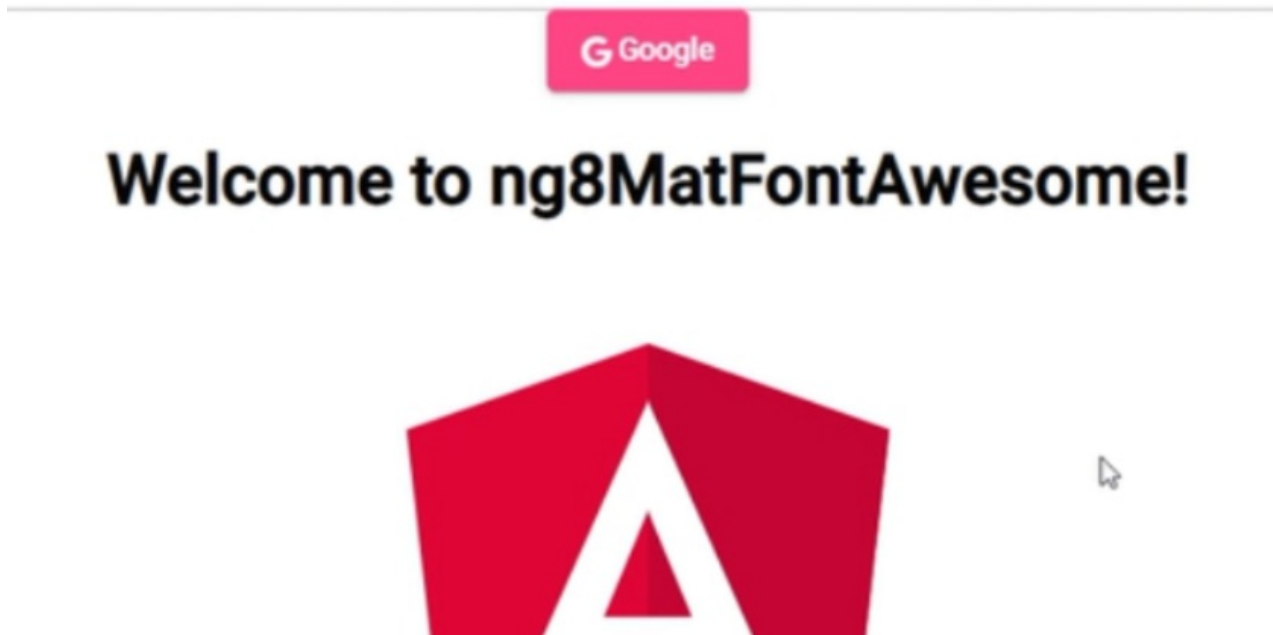
Display Google Icon

Next, start the local server and display the page.

```
ohtsu@DESKTOP-I74NIEL:/mnt/c/__myprg/ng8/ng8MatFontAwesome$ ng s -o
```

Google icon is displayed.

Display Twitter icon

Next, let's display the Twitter icon.

Go back to VS Code and edit the HTML again.

Copy Google's and change it for Twitter.

Change to the confirmed font icon name.

```
<button mat-raised-button color="primary">
  <mat-icon fontSet="fab" fontIcon="fa-twitter" inline></mat-icon>
  Twitter
</button>
```

Check in browser.

OK.
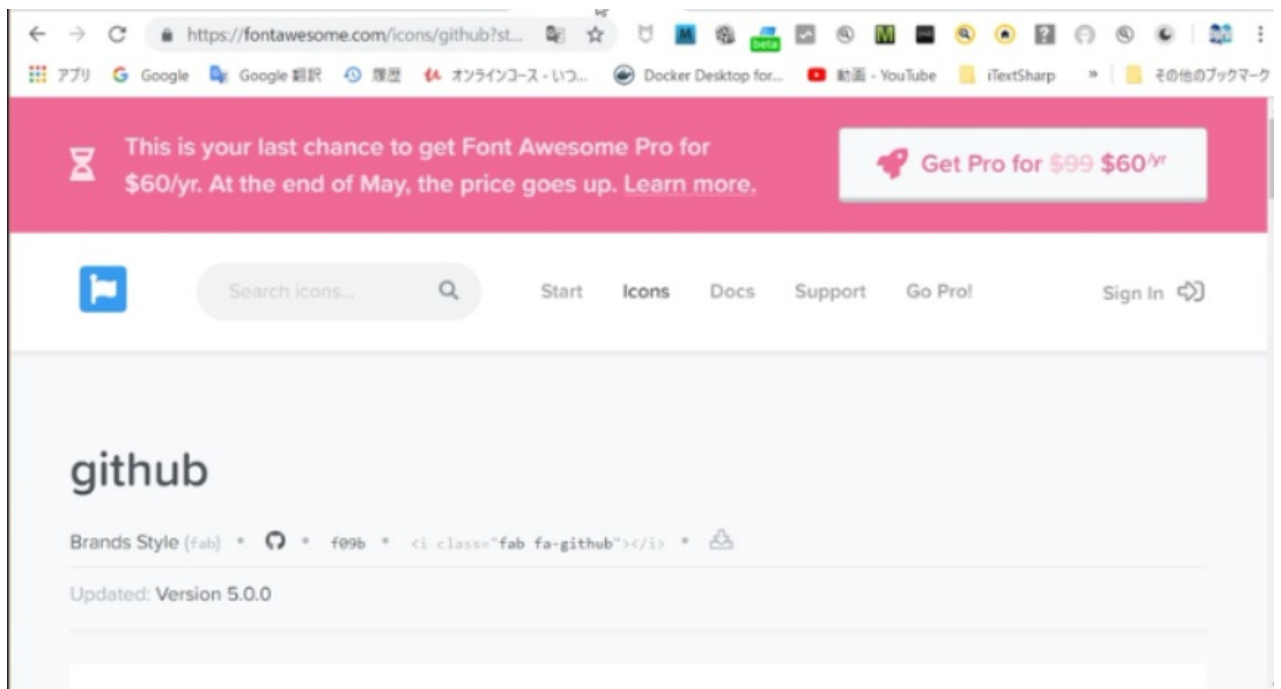
Display Facebook Icon

Display the Facebook icon as well.

Before that, you need to check the font set and icon name of the icon.

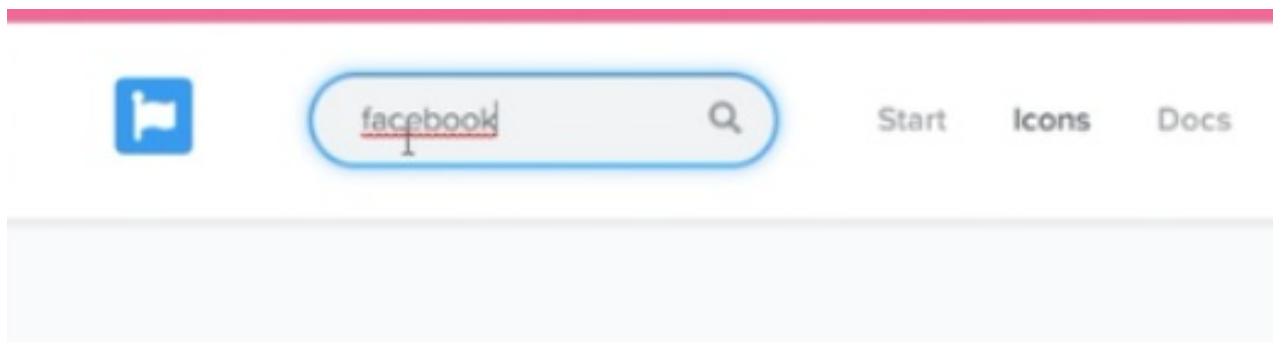First, open the Font Awesome site.

The URL is
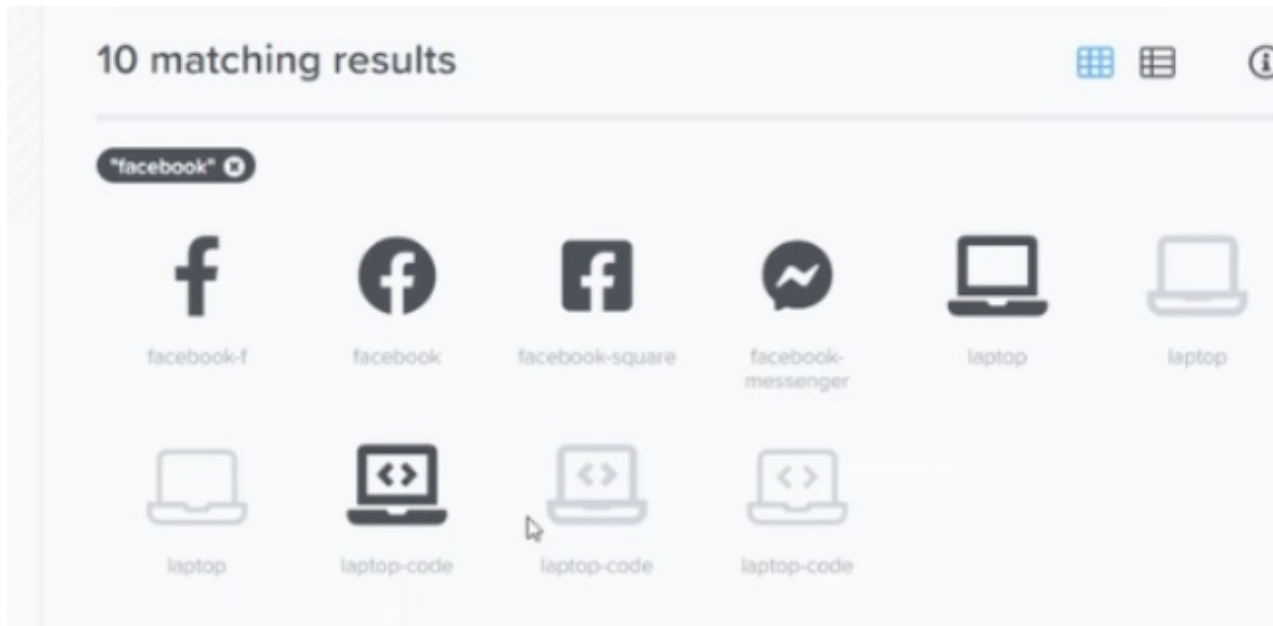
https://fontawesome.com/icons?d=gallery.

Let's search on Facebook at Font Awesome site.
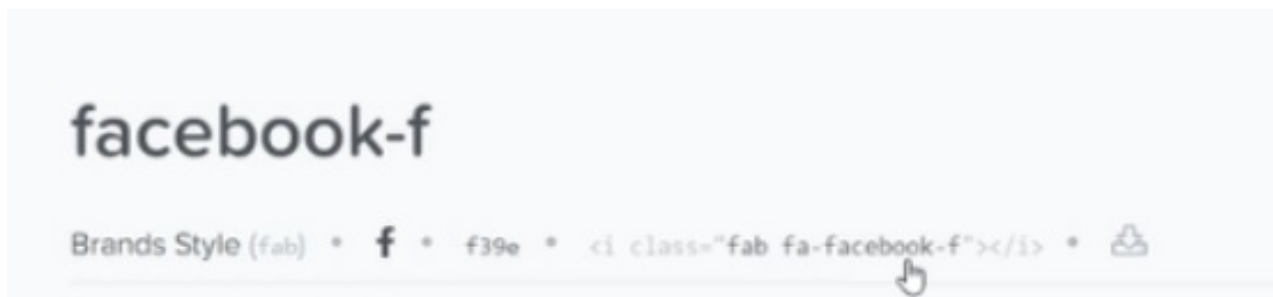
In this search box, type `facebook`.

Select the icon you want to use from the icons of this search result and click.
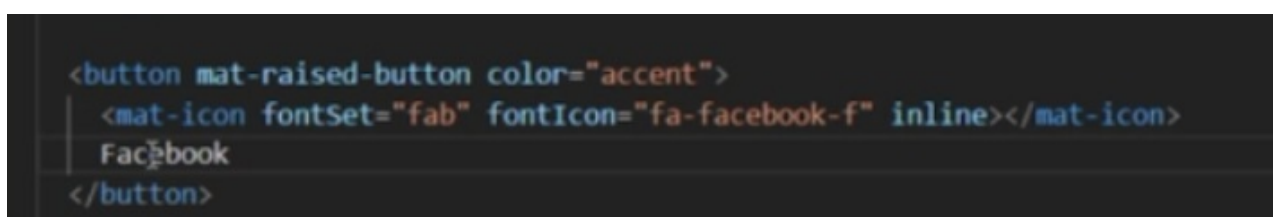

Then, the HTML sentence will be displayed, so click that part and copy it to the clipboard.

Go back to VS Code and edit the HTML again.

Copy the one for Google and change it for Facebook.

```
<button mat-raised-button color="accent">
  <mat-icon fontSet="fab" fontIcon="fa-facebook-f" inline></mat-icon>
  Facebook
</button>
```

Next, change the display color.

```
<button mat-raised-button color="warn">
  <mat-icon fontSet="fab" fontIcon="fa-facebook-f" inline></mat-icon>
  Facebook
</button>
```

Check in browser.

Display the GitHub icon

We are going to display the GitHub icon as well.

Go back to VS Code and edit the HTML again.

Copy the one for Google and change it for GitHub.

```
<button mat-raised-button color="accent">
  <mat-icon fontSet="fab" fontIcon="fa-github" inline></mat-icon>
  Github
</button>
```

Next, change the display color.

```
<button mat-raised-button color="link">
  <mat-icon fontSet="fab" for [abc] links
  Github
</button>
```

Let's check it in the browser.

Welcome to ng8MatFontAwesome!

OK.

Finally, comment out the unnecessary display part of the default page.

Let's check it in the browser.

OK.

Source File

Reference

-"Display an icon using Font Awesome with Angular Material 6",
https://blog.tagbangers.co.jp/2018/09/05/font-awesome-angular-material

-"Angular5, Angular6, Angular7 Custom Library: Step-by-step guide",
https://www.udemy.com/angular5-custom-library-the-definitive-step-by-step-guide/

-"Angular5, Angular6, Angular7用 カスタムライブラリの作成: 完全ステップ・バイ・ステップ・ガイド",
https://www.udemy.com/angular5-l/