# How to import json file in Angular
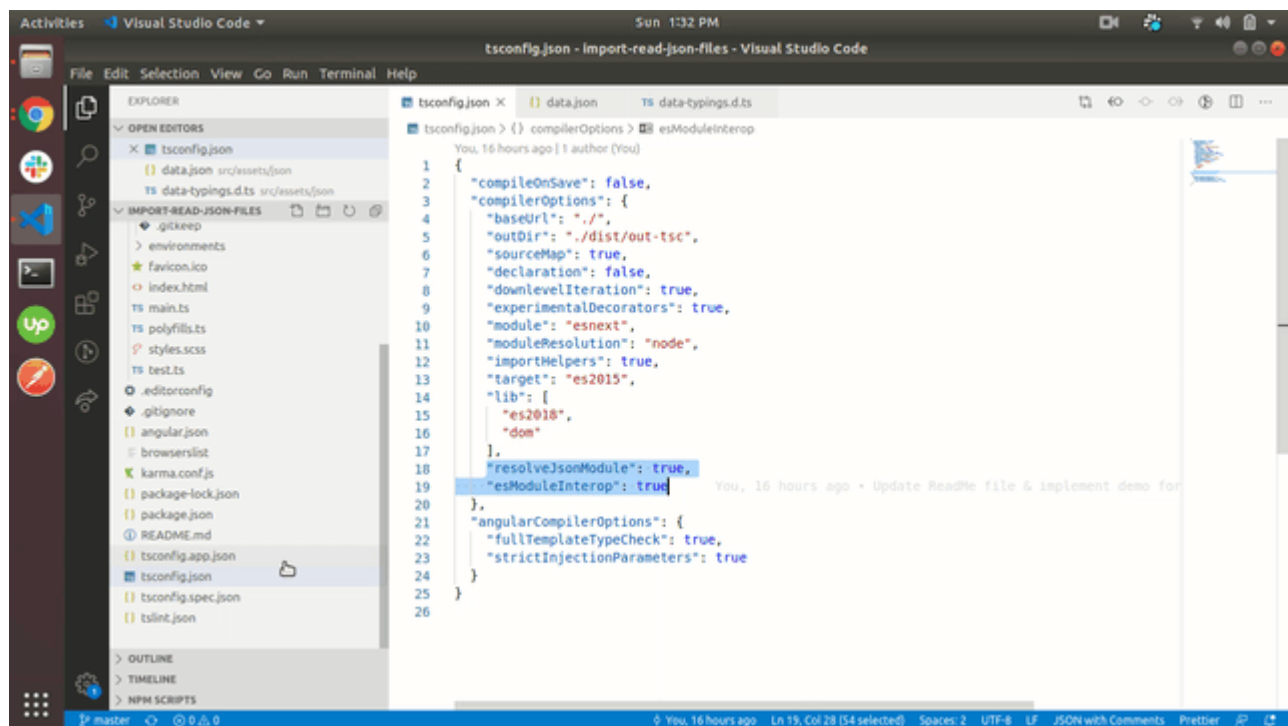
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May 2, 2021 · 3 min read ★

H ello Everyone!!! In this post, we will learn how to read json file in angular. We will cover **3 different ways** to import and read local json file.

We will get below output at the end of every method of reading json file.



output of the story

# First Way

Angular 6.1+ supports TypeScript 2.9+ which allows you to use the `import` statement to import local JSON files just like any TypeScript module.

So we can use this below <u>feature</u> in any Angular application which has used **TypeScript 2.9+.** To enable this feature, follow the below steps.

## Step 1 :

Create your JSON file in your project wherever you want.

We will create a new folder called `json` and under that folder, create a new file called `data.json`. So it's path looks like `src/assets/json/data.json`.

## Step 2 :

Set the `resolveJsonModule: true` & `esModuleInterop: true` in the `tsconfig.json` file under the `compilerOptions` key.

So `tsconfig.json` will look like

```
{
  ...,
  "compilerOptions": {
    ...,
    "resolveJsonModule": true,
    "esModuleInterop": true
  }
}
```

Where

- `--resolveJsonModule` allows for importing, extracting types from .json files.

- `--esModuleInterop` allows default imports from modules with no default export. This is required since a .json file has no default output.

## Step 3 :

Now you can import JSON file in your components/directives/services wherever you want with

```
// PATH TO YOUR JSON FILE
import data from '../../assets/json/data.json';
```

## Second Way

The second way that you can use to import JSON files in your Angular application is Angular `HttpClient`.

### Step 1:

Create your JSON file in your project wherever you want.

We will create a new folder called `json` and under that folder, create a new file called `data.json`. So it's path looks like `src/assets/json/data.json`.

### Step 2:

Import `HttpClientModule` in app.module.ts file. So it's code looks like

```
import { HttpClientModule } from '@angular/common/http';@NgModule({
  imports: [..., HttpClientModule]
})
export class AppModule {}
```

### Step 3:

Now you can import JSON file in your components/directives/services with making Http call like

```
import { Component } from '@angular/core';
import { HttpClient } from '@angular/common/http';@Component({
  selector: 'app-second-way',
  template: `<div>{{jsonDataResult | json}}`
```

```
  })
  export class SecondWayComponent {
    jsonDataResult: any;

    constructor(private http: HttpClient) {
        this.http.get('assets/json/data.json').subscribe((res) => {
          this.jsonDataResult = res;
          console.log('--- result :: ',  this.jsonDataResult);
        });
    }
  }
```

## Third Way

We have one more way to import local JSON files using the ES6+ import statement
which supports importing JSON files.

## Step 1:

Create your JSON file in your project wherever you want.

We will create a new folder called `json` and under that folder, create a new file called
`data.json`. So it's path looks like `src/assets/json/data.json`.

## Step 2:

Create a typing file `*.d.ts` where your JSON file created.

In our case, we will create `data-typings.d.ts` under `src/assets/json` folder. So it's path
looks like `src/assets/json/data-typings.d.ts`. It's code looks like

```
  declare module '*.json' {
    const value: any;
    export default value;
  }
```

## Step 3:

Now you can import JSON file in your components/directives/services wherever you want with

```
// PATH TO YOUR JSON FILE
import * as data from '../../assets/json/data.json';
// OR Import it like
// import data from '../../assets/json/data.json';
```

## GitHub Repository

Below is our GitHub repository link where you can download this working example.

codeptivesolutions/import-read-json-files

This project basically demonstrates that how we can import/read local json file in angular. Well There are atleast 3...

github.com

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