

How to set up Bootstrap4 environment in *Narration & Reference* Angular 8

Base File Name: NarrationReference_Ng8_SettingBootstrap4_ja_13_en

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How to set Bootstrap 4 environment in Angular 8

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Full source code

<https://github.com/Ohtsu/ng8-bootstrap4-initial>

Video commentary (Japanese)

<https://youtu.be/gFxuSi4IZjM>

Video commentary (English)

◇

How to set up Bootstrap4 in Angular 8

Previously, I introduced how to set up Bootstrap4 for Angular5_ <https://youtu.be/ndk2Hqd8P7I>, but since the environment for Angular has changed a lot, this time, I will show you how to set up Bootstrap4 environment for Angular 8.

Generate a project in Angular 8

First, create an Angular 8 project.

At the command prompt, type

```
ng new ng8-bootstrap4-initial
```

ng8-bootstrap4-initial is a project name, and any name will do.

Then, there is a question whether or not to incorporate the routing function, so select *yes* here.

Next, you will be asked to select a style sheet format, so select *SCSS*.

Then project generation will start.

This process takes some time.

Launch Visual Studio Code

Next, enter the directory of the generated project,

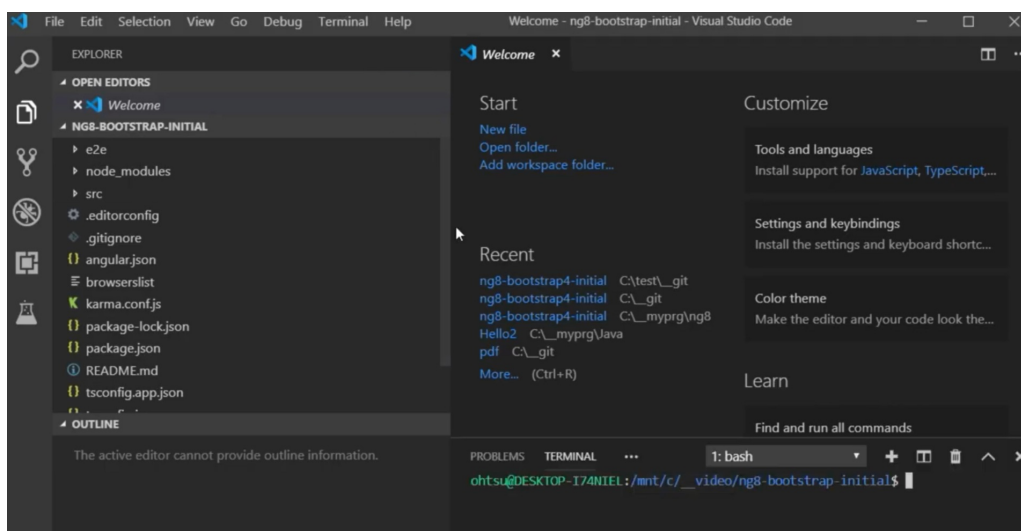
```
cd ng8-bootstrap4-initial
```

And start Visual Studio Code, type

```
code .
```

Once VSCode starts up,

Press *ctrl* + *`* key to open a terminal window.



Install Bootstrap4

Then in the terminal window, type

```
npm i --save bootstrap
```

to install Bootstrap4.

Install *ng-bootstrap*

Next, install *ng-bootstrap*. Type

```
npm i --save @ng-bootstrap/ng-bootstrap
```

Modification of app.module.ts file

Next, modify app.module.ts file and install the *ng-bootstrap* module.

Open the app.module.ts file in the src/app directory and import the NgbModule you want to use here.

```

TS app.module.ts
src > app > TS app.module.ts > AppModule
1  import { BrowserModule } from '@angular/platform-browser';
2  import { NgModule } from '@angular/core';
3
4  import { NgbModule } from '@ng-bootstrap/ng-bootstrap';
5  import { AppRoutingModule } from './app-routing.module';
6  import { AppComponent } from './app.component';
7
8  @NgModule({
9      declarations: [
10         AppComponent
11     ],
12     imports: [
13         BrowserModule,
14         NgbModule,
15         AppRoutingModule
16     ],
17     providers: [],
18     bootstrap: [AppComponent]

```

Modify angular.json file

Then open the *angular.json* file in the project's root directory and add the Bootstrap4 *css* file installed.

Specifically, in the *angular.json* file, add

`"/node_modules/bootstrap/dist/css/bootstrap.min.css".`

```

    "styles": [
        "./node_modules/bootstrap/dist/css/bootstrap.min.css",
        "src/styles.scss"
    ]

```

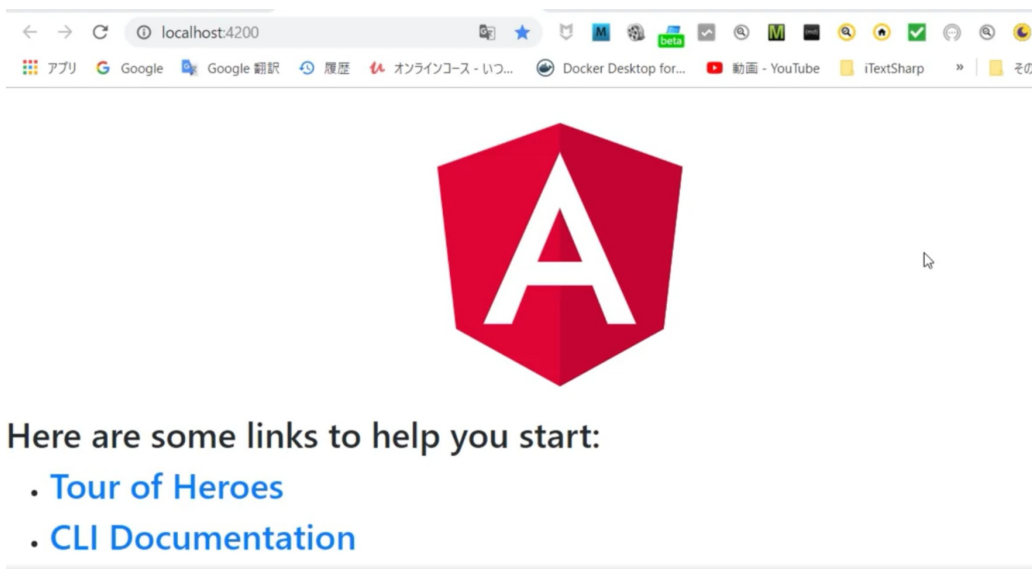
Launch the project

At this stage, first check if the project can be launched.

In the terminal window, type

```
ng s -o.
```

The browser will automatically be opened and display the Angular default page.



OK.

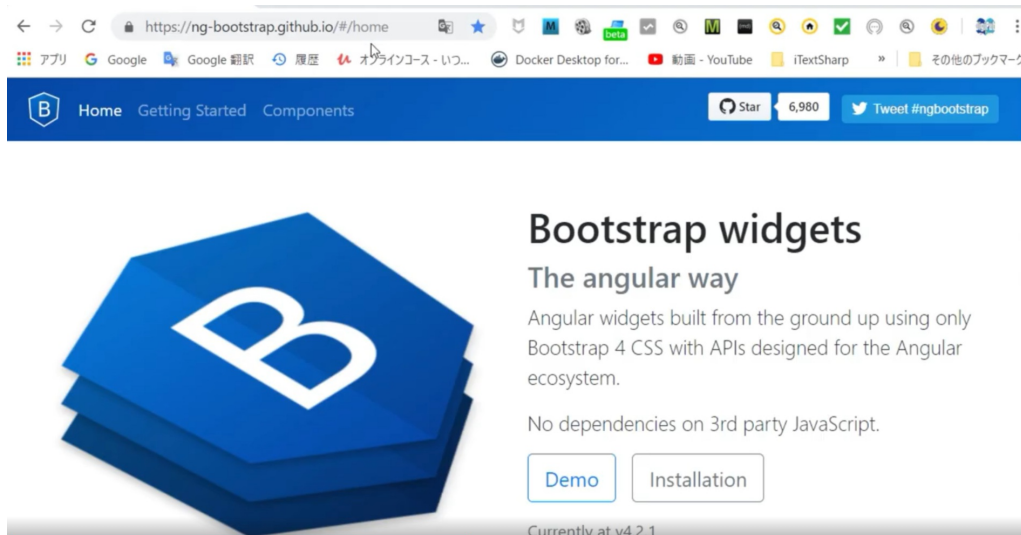
Open *ng-bootstrap* site

Next, to check if the Bootstrap4 function is realized,
we are going to use the demo program at *ng-bootstrap* site.

Open the *ng-bootstrap* site.

The URL is

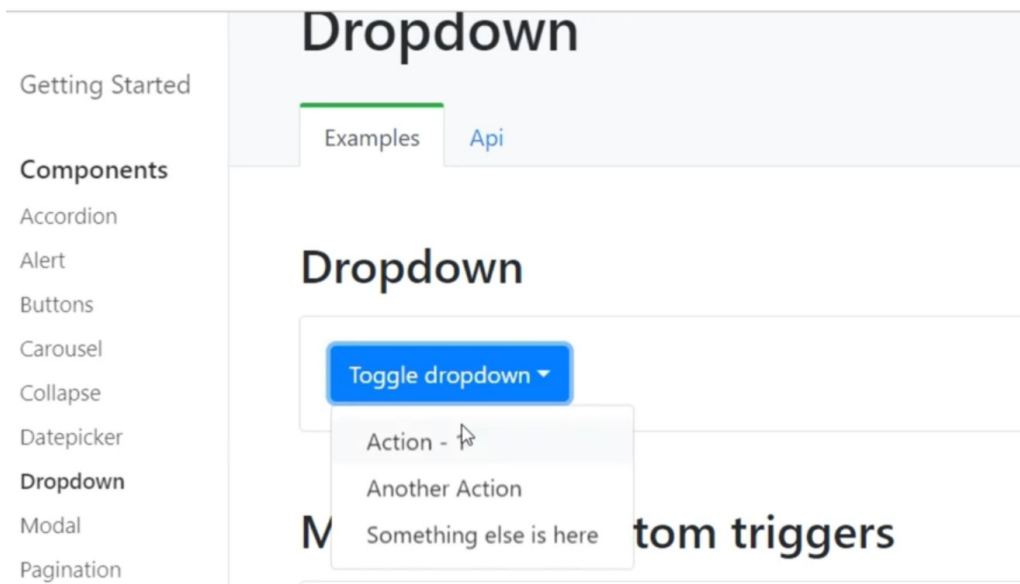
`https://ng-bootstrap.github.io/#/home.`



Here, we are going to select a commonly used drop down list.

Select *Dropdown* from the left menu.

You can then try the drop-down as well as the drop-up by opening the *Examples* tab.



We are going to implement this function on an Angular 8 project.

First, click the *Code* button to display its source.

And copy this source.



Modify *app.component.html* file

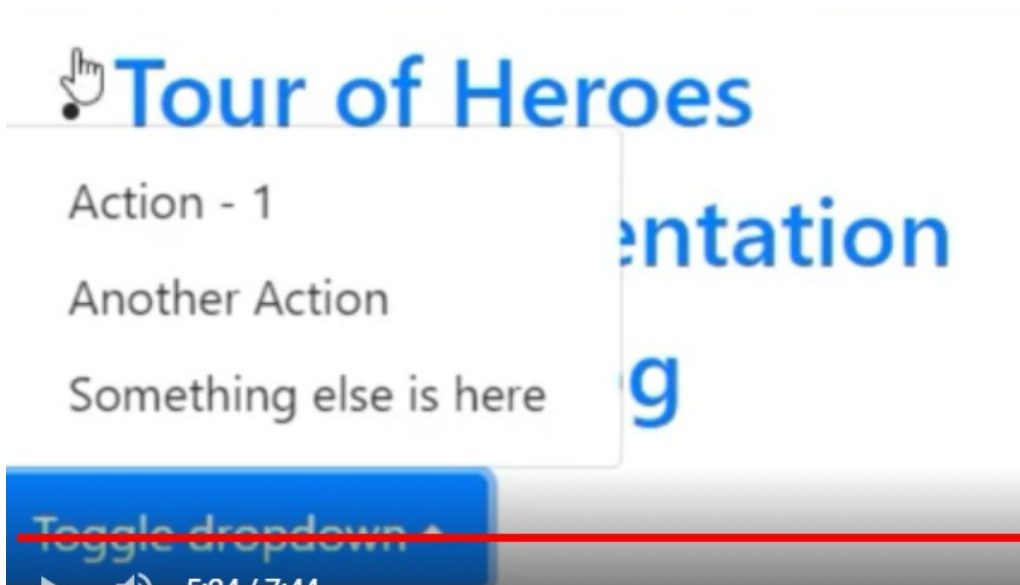
Return to VSCode, open the *app.component.html* file in the `src/app` directory and paste the copied drop-down sample source.

```
TS app.module.ts  angular.json  app.component.html
src > app > app.component.html > div.row
27     <button ngbDropdownItem>Another Action</button>
28     <button ngbDropdownItem>Something else is here</button>
29   </div>
30 </div>
31 </div>
32
33 <div class="col text-right">
34   <div ngbDropdown placement="top-right" class="d-inline-block">
35     <button class="btn btn-outline-primary" id="dropdownBasic2" ngbDropdov
36     <div ngbDropdownMenu aria-labelledby="dropdownBasic2">
37       <button ngbDropdownItem>Action - 1</button>
38       <button ngbDropdownItem>Another Action</button>
39       <button ngbDropdownItem>Something else is here</button>
40     </div>
41   </div>
42 </div>
43 </div>
```

Check in the browser

If you leave the local server running, you can confirm the reflection by opening <http://localhost:4200> in the browser when you change the *app.component.html* file.

The drop-down has been dropped because the display screen is small.



So, modify the *app.component.html* file a little.

Comment out part of the default display and enlarge the display area.


```

src ▸ app ▸ app.component.html ▸ div
9  <ul>
10  <li>
11  |   <h2><a target="_blank" rel="noopener" href="https://angular.io/tutorial">Tutorial
12  |   </li>
13  <li>
14  |   <h2><a target="_blank" rel="noopener" href="https://angular.io/cli">CLI
15  |   </li>
16  <li>
17  |   <h2><a target="_blank" rel="noopener" href="https://blog.angular.io/">Angular
18  |   </li>
19  </ul> -->
20
21  <div class="row">
22  |   <div class="col">
23  |     <div ngbDropdown class="d-inline-block">
24  |       <button class="btn btn-outline-primary" id="dropdownBasic1" ngbDropdov
25  |       <div ngbDropdownMenu aria-labelledby="dropdownBasic1">
26  |         <button ngbDropdownItem>Action - 1</button>

```

Although the drop down has been confirmed, since the display area of the drop up is small, the *app.component.html* file needs to be further modified.



Insert line feed codes, and extend the gap between the title.

```

TS app.module.ts  angular.json  app.component.html
src ▸ app ▸ app.component.html ▸ div
11  |   <h2><a target="_blank" rel="noopener" href="https://angular.io/tutorial">Tutorial
12  |   </li>
13  <li>
14  |   <h2><a target="_blank" rel="noopener" href="https://angular.io/cli">CLI
15  |   </li>
16  <li>
17  |   <h2><a target="_blank" rel="noopener" href="https://blog.angular.io/">Angular
18  |   </li>
19  </ul> -->
20  <br>
21  <br>
22  <br>
23  <br>
24  <br>
25  <br>
26  <br>
27  |
28  <div class="row">

```

We were able to see the Bootstrap4 drop-down and drop-up features on the Angular 8 project.

Welcome to ng8-bootstrap-initial!

Toggle dropdown ▼

Action - 1
Another Action
Something else is here

Toggle dropup ▲

OK.

Reference

- "Angular 7 Bootstrap 4 UIs: ng-bootstrap and ngx-bootstrap [Part 1]",
<https://www.techiediaries.com/angular-bootstrap-ui/>

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

- "Creating a Custom Library for Angular5, Angular6, Angular7: A Complete Step-by-Step Guide",
<https://www.udemy.com/angular5-/>