

Globus - Angular Component Library




Creation Steps

1. Create new GitHub Repo

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Owner

 datajango ▾

Repository name *

/ globus ✓

Great repository names are short and memorable. Need inspiration? How about [automatic-meme?](#)

Description (optional)

Angular Component Library

☒  **Public**

Anyone can see this repository. You choose who can commit.

☐  **Private**

You choose who can see and commit to this repository.

Skip this step if you're importing an existing repository.

☐ **Initialize this repository with a README**

This will let you immediately clone the repository to your computer.

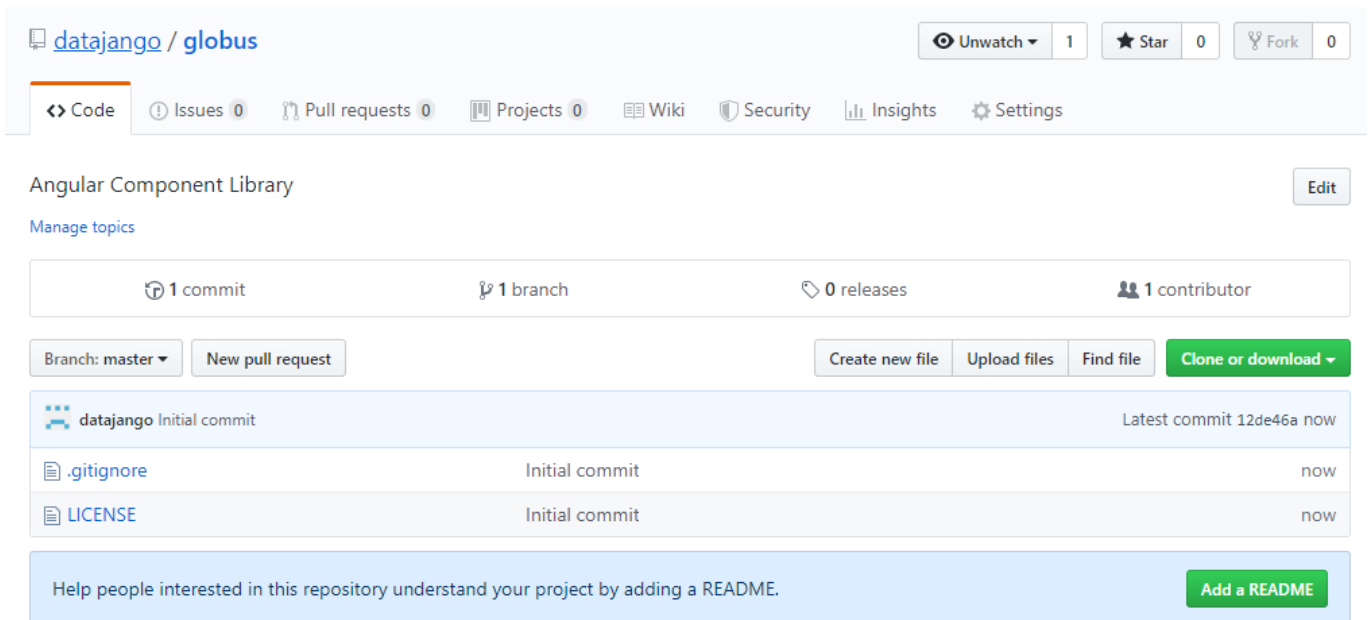
Add .gitignore: Node ▾

Add a license: MIT License ▾



Create repository

2. Default GitHub Repo



datajango / globus

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1 commit 1 branch 0 releases 1 contributor

Branch: master New pull request Create new file Upload files Find file Clone or download

datajango Initial commit		Latest commit 12de46a now
.gitignore	Initial commit	now
LICENSE	Initial commit	now

Help people interested in this repository understand your project by adding a README. [Add a README](#)

3. Clone the repo locally.

```
git clone git@github.com:datajango/globus.git
Cloning into 'globus'...
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (4/4), done.
```

4. Open the cloned folder in a text editor, I will be using [Microsoft Visual Studio Code](#)

5. create a new Angular project using the CLI

1. You can test the command by adding the --dryRun=true option

```
ng new globus --create-application=false --style=scss --routing=false --dryRun=true
```

2. When you ready, execute the below

```
ng new globus --create-application=false --style=scss --routing=false
```

3. Cd into the new folder

```
cd globus
```

4. Next create a Library

```
ng generate library globus-library --dryRun=true
ng generate library globus-library
```

a prefix could have been applied

```
ng generate library globus-library --prefix=glb
```

Install Story Book

1. Install Story Book using the NPX command

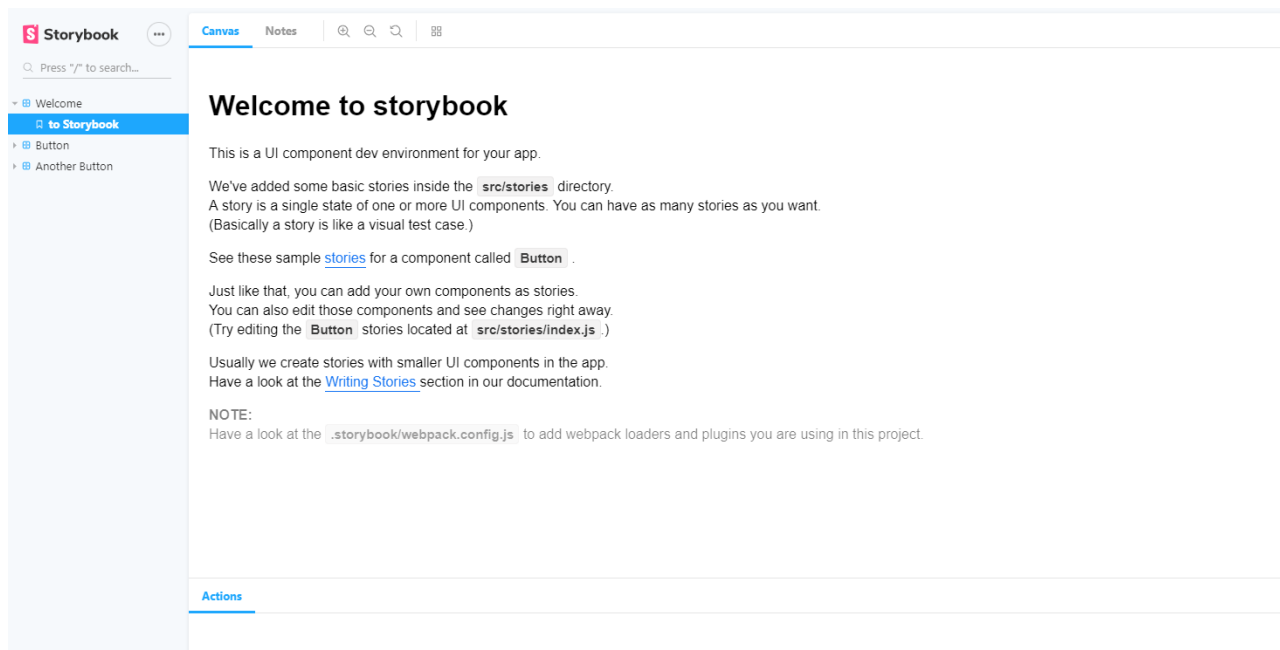
```
npx -p @storybook/cli sb init --type angular
```

Startup Story Book

1. Start storybook

```
npm run storybook
```

2. A local webpack server will be started on port 6006. [local](#)



```
Starting type checking service...
Using 1 worker with 2048MB memory limit
```

```
webpack built c4364c5d4b9d2f4b6656 in 28656ms
```

```
Storybook 5.2.6 started  
35 s for manager and 37 s for preview  
  
Local:          http://localhost:6006/  
On your network: http://10.7.51.249:6006/
```

Creating the first Component

1. Create a new button

```
ng generate component button --project globus-library --dryRun=true  
ng generate component button --project globus-library
```

2. Edit .\globus\projects\globus-library\src\lib\button\button.component.html

```
<button (click)="onClick()">  
  {{text}}  
</button>
```

3. Edit .\globus\projects\globus-library\src\lib\button\button.component.ts

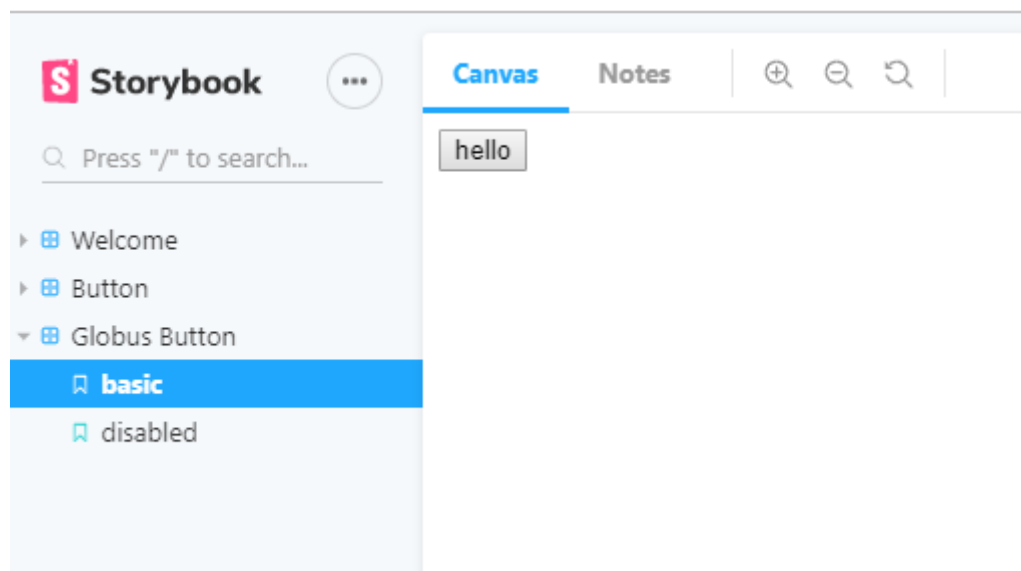
```
import { Component, OnInit, Input, Output, EventEmitter } from  
'@angular/core';  
  
@Component({  
  selector: 'glb-button',  
  templateUrl: './button.component.html',  
  styleUrls: ['./button.component.css']  
})  
export class ButtonComponent implements OnInit {  
  
  @Input() text: string;  
  @Output() click: EventEmitter<void> = new EventEmitter();  
  
  constructor() { }  
  
  ngOnInit() {  
  }  
  
  onclick(){  
    this.click.emit();  
  }  
}
```

```
}  
}
```

4. Add a storybook story for the Button component

Storybook is all about writing stories. A story usually contains a single state of one component, almost like a visual test case.

```
import { storiesOf } from '@storybook/angular';  
import { ButtonComponent } from 'lib-button';  
  
storiesOf('button', module)  
  .add('basic', () => ({  
    component: ButtonComponent,  
    props: {  
      text: 'hello'  
    }  
  }))  
  .add('disabled', () => ({  
    component: ButtonComponent,  
    props: {  
      text: 'disabled',  
      disabled: true  
    }  
  }));
```



5. Change to SCSS

1. Install node-sass

```
npm install -dev node-sass
```

2. Install some more Storybook packages

```
npm install @storybook/addon-storysource --save-dev
npm install to-string-loader --save-dev
npm install css-loader --save-dev
```

3. Change .\globus\projects\globus-library\src\lib\button\button.component.ts

```
import { Component, OnInit, Input, Output, EventEmitter } from
'@angular/core';

@Component({
  selector: 'glb-button',
  templateUrl: './button.component.html',
  styleUrls: ['./button.component.scss']
})
export class ButtonComponent implements OnInit {

  @Input() text: string;
  @Input() disabled: boolean = False;
  @Output() click: EventEmitter<void> = new EventEmitter();

  constructor() { }

  ngOnInit() {
  }

  onclick(){
    this.click.emit();
  }
}
```

4. Add some fancy CSS styling

```
$color-foreground: white;
$color-background: #4CAF50;
$color-border: darkgreen;

.button {
  background-color: $color-background;
  border: 1px solid $color-border;
  color: $color-foreground;
  padding: 8px 16px;
  text-align: center;
  text-decoration: none;
  display: inline-block;
  font-size: 16px;
  border-radius: 16px;
```

```
-webkit-transition-duration: 0.4s; /* Safari */
transition-duration: 0.4s;

&:not(.disabled):hover {
    background-color: $color-foreground;
    color: $color-background;
}

&.disabled {
    opacity: 0.6;
    cursor: not-allowed;
}
}
```

Creating a NPM package

1. Build the Globus library

```
cd .\globus\globus
ng build globus-library
```

Building Angular Package

```
-----
--
Building entry point 'globus-library'
-----
--
Compiling TypeScript sources through ngc
Bundling to FESM2015
Bundling to FESM5
Bundling to UMD
Minifying UMD bundle
Copying declaration files
Writing package metadata
Built globus-library

-----
--
Built Angular Package!
- from: C:\dev\globus\globus\projects\globus-library
- to:   C:\dev\globus\globus\dist\globus-library
-----
--
```

2. Pack the library into a tarball

1. Add to package.json

```
"scripts": {  
  ...  
  "pack": "cd dist/globus-library && npm pack && npm link",  
  "link": "cd dist/globus-library && npm link",  
  "publish": "cd dist/globus-library && npm publish"  
  ...  
}
```

2. Run the pack command

```
npm run pack
```

Output:

```
> globus@0.0.0 pack C:\dev\globus\globus  
> cd dist/globus-library && npm pack  
  
npm notice  
npm notice package: globus-library@0.0.1  
npm notice === Tarball Contents ===  
npm notice 3.0kB esm2015/lib/button/button.component.js  
npm notice 3.3kB esm5/lib/button/button.component.js  
npm notice 1.6kB esm2015/lib/globus-library.component.js  
npm notice 1.9kB esm5/lib/globus-library.component.js  
npm notice 956B esm2015/globus-library.js  
npm notice 956B esm5/globus-library.js  
npm notice 3.8kB fesm2015/globus-library.js  
npm notice 4.6kB fesm5/globus-library.js  
npm notice 2.0kB esm2015/lib/globus-library.module.js  
npm notice 2.3kB esm5/lib/globus-library.module.js  
npm notice 1.4kB esm2015/lib/globus-library.service.js  
npm notice 1.6kB esm5/lib/globus-library.service.js  
npm notice 5.3kB bundles/globus-library.umd.js  
npm notice 2.0kB bundles/globus-library.umd.min.js  
npm notice 1.0kB esm2015/public-api.js  
npm notice 1.0kB esm5/public-api.js  
npm notice 2.9kB globus-library.metadata.json  
npm notice 582B package.json  
npm notice 2.4kB fesm2015/globus-library.js.map  
npm notice 2.4kB fesm5/globus-library.js.map  
npm notice 2.5kB bundles/globus-library.umd.js.map  
npm notice 2.5kB bundles/globus-library.umd.min.js.map  
npm notice 1.1kB README.md  
npm notice 256B lib/button/button.component.d.ts  
npm notice 152B lib/globus-library.component.d.ts  
npm notice 155B globus-library.d.ts  
npm notice 47B lib/globus-library.module.d.ts  
npm notice 68B lib/globus-library.service.d.ts  
npm notice 142B public-api.d.ts
```



```
npm notice === Tarball Details ===
npm notice name:          globus-library
npm notice version:       0.0.1
npm notice filename:      globus-library-0.0.1.tgz
npm notice package size:  9.7 kB
npm notice unpacked size: 51.9 kB
npm notice shasum:        50e28ed92163e9ef027f8248c7ac517ce5f44b1f
npm notice integrity:      sha512-eR3oiQlcJgRvr[...]/4nIGHio3vIPg==
npm notice total files:   29
npm notice
globus-library-0.0.1.tgz
```

3. Run the link command

```
npm run link
```

output:

```
> globus@0.0.0 link C:\dev\globus\globus
> cd dist/globus-library && npm link

npm notice created a lockfile as package-lock.json. You should commit
this file.
npm WARN globus-library@0.0.1 requires a peer of @angular/common@^8.1.3
but none is installed. You must install peer dependencies yourself.
npm WARN globus-library@0.0.1 requires a peer of @angular/core@^8.1.3
but none is installed. You must install peer dependencies yourself.
npm WARN globus-library@0.0.1 No repository field.
npm WARN globus-library@0.0.1 No license field.

added 1 package from 1 contributor and audited 1 package in 6.87s
found 0 vulnerabilities
```

3. Create an NPM account at command line or goto [npmjs](https://www.npmjs.com)

```
npm adduser
```

4. Login to npm on the command line

```
npm login
```

5. Publish the library to npmjs.com

```
npm run publish
```

Output:

```
> globus@0.0.0 publish C:\dev\globus\globus
> cd dist/globus-library && npm publish

npm notice
npm notice package: globus-library@0.0.1
npm notice === Tarball Contents ===
npm notice 3.0kB  esm2015/lib/button/button.component.js
npm notice 3.3kB  esm5/lib/button/button.component.js
npm notice 1.6kB  esm2015/lib/globus-library.component.js
npm notice 1.9kB  esm5/lib/globus-library.component.js
npm notice 956B   esm2015/globus-library.js
npm notice 956B   esm5/globus-library.js
npm notice 3.8kB  fesm2015/globus-library.js
npm notice 4.6kB  fesm5/globus-library.js
npm notice 2.0kB  esm2015/lib/globus-library.module.js
npm notice 2.3kB  esm5/lib/globus-library.module.js
npm notice 1.4kB  esm2015/lib/globus-library.service.js
npm notice 1.6kB  esm5/lib/globus-library.service.js
npm notice 5.3kB  bundles/globus-library.umd.js
npm notice 2.0kB  bundles/globus-library.umd.min.js
npm notice 1.0kB  esm2015/public-api.js
npm notice 1.0kB  esm5/public-api.js
npm notice 2.9kB  globus-library.metadata.json
npm notice 582B   package.json
npm notice 2.4kB  fesm2015/globus-library.js.map
npm notice 2.4kB  fesm5/globus-library.js.map
npm notice 2.5kB  bundles/globus-library.umd.js.map
npm notice 2.5kB  bundles/globus-library.umd.min.js.map
npm notice 1.1kB  README.md
npm notice 20.5kB globus-library-0.0.1.tgz
npm notice 256B   lib/button/button.component.d.ts
npm notice 152B   lib/globus-library.component.d.ts
npm notice 155B   globus-library.d.ts
npm notice 47B    lib/globus-library.module.d.ts
npm notice 68B    lib/globus-library.service.d.ts
npm notice 142B   public-api.d.ts
npm notice === Tarball Details ===
npm notice name:      globus-library
npm notice version:    0.0.1
npm notice package size: 31.4 kB
npm notice unpacked size: 72.4 kB
npm notice shasum:     57552f476c527bcad75d623fc05eef6de83a6ba9
npm notice integrity:   sha512-+NmdMVdbptIxc[...]0y4mTcoEooQpA==
npm notice total files: 30
npm notice
+ globus-library@0.0.1
```

6. Verify that the package was published to npmjs.com by searching for it.

The screenshot shows the npm search results for the package 'globus-library'. At the top, there's a navigation bar with 'npm' logo, a search bar containing 'globus-library', and a 'Search' button. Below the search bar, it says '1 packages found'. On the left, there's a 'Sort Packages' section with options: 'Optimal' (selected), 'Popularity', 'Quality', and 'Maintenance'. The main content area shows the package 'globus-library' with a description: 'This library was generated with [Angular CLI](https://github.com/angular/angular-cli) version 8.1.3.' and a status 'datajango published 0.0.1 • a minute ago'. On the right, there's a 'P S M' indicator. At the bottom right, it says 'powered by npms.io'.

7. NPMJS should display a very basic package information details page.

The screenshot shows the npm package details page for 'globus-library'. At the top, there's a navigation bar with 'npm' logo, a search bar, and a 'Search' button. Below the search bar, there's a banner that says 'Need private packages and team management tools? Check out npm Orgs. »'. The main content area has a header for 'globus-library' with version '0.0.1', status 'Public', and 'Published 4 minutes ago'. Below the header, there's a navigation bar with tabs: 'Readme' (selected), 'Admin', '1 Dependency', '0 Dependents', and '1 Versions'. The 'Readme' tab is active, showing the package name 'GlobusLibrary' and a description: 'This library was generated with Angular CLI version 8.1.3.' Below the description, there's a section for 'Code scaffolding' with instructions on how to generate a new component. A note says: 'Note: Don't forget to add --project globus-library or else it will be added to the default project in your angular.json file.' Below the note, there's a section for 'Build' with instructions on how to build the project. On the right side, there's a sidebar with information: 'install' (with a command box containing '> npm i globus-library'), 'version' (0.0.1), 'license' (none), 'last publish' (4 minutes ago), 'collaborators' (with a list of avatars), 'Test with RunKit' (button), and 'Report a vulnerability' (button).