

# Using GitHub as a library to share your hardware

Screenshots considered fair use

CC BY-SA 4.0, [@tamberg](#)

# Library users

- Look up/find items
- Check availability
- Become members
- Ask to borrow items
- List their requests
- Get notifications

# GitHub users

- Find files by name
- Check open issues
- Sign up to GitHub
- Create new issues
- List their issues
- Get notifications

generated from [tamberg/library](#)

🔗 main ▾



Go to file



&lt;&gt; Code ▾

About



👤 tamberg Update update.py

55d5b5b · 1 minute ago 🕒

|             |  |                |
|-------------|--|----------------|
| 📁 Hardware  | Update.                                | 14 minutes ago |
| 📁 Parts     | Update.                                | last week      |
| 📁 Tools     | Update Nordic_Power_Profiler_Kit_nR... | 2 weeks ago    |
| 📄 README.md | Update README.md                       | 2 days ago     |
| 📄 update.py | Update update.py                       | 1 minute ago   |

## FHNW IoT Hardware Library

- 📖 Readme
- 📈 Activity
- 📋 Custom properties
- ★ 1 star
- 👁️ 3 watching
- 🔗 0 forks

## Releases

github.com/fhnw-imvs/fhnw-iot-library?search=1

fhnw-imvs / fhnw-iot-library

<> Code

Issues 1

Pull requests

Actions

Security

Insights

Settings

main

fhnw-iot-library /

nRF

Add file

tamberg

Update u

Tools/Profilers/Nordic\_Power\_Profiler\_Kit\_nRF\_PPK2.md

Hardware/Microcontrollers/Adafruit\_Feather\_nRF52840\_Sense.md

Hardware/Microcontrollers/Adafruit\_Feather\_nRF52840\_Express.md

Go to file

| Name      |  | Last commit date |
|-----------|--|------------------|
| Hardware  | Update.                                      | 1 hour ago       |
| Parts     | Update.                                      | last week        |
| Tools     | Update Nordic_Power_Profiler_Kit_nRF_PPK2.md | 2 weeks ago      |
| README.md | Update README.md                             | 2 days ago       |
| update.py | Update update.py                             | 1 hour ago       |

README.md

# Adafruit Feather nRF52840 Sense

Up to 6 pieces, check [open requests](#), then ask to [borrow some](#).

## Resources

- <https://www.adafruit.com/product/4516>



Filters

Labels 6

Milestones 0

New issue

☐ Clear current search query, filters, and sorts

0 Open ✓ 0 Closed

☐ Author Label Projects Milestones Assignee Sort



No results matched your search.

You could search [all of GitHub](#) or try an [advanced search](#).



## Add a title

Borrow request for Adafruit Feather nRF52840 Sense

## Add a description

Write

Preview

H

B

I

≡

<>

🔗

≡

≡

≡

📎

@

🗨

...

1 piece of [this]

(../blob/main/Hardware/Microcontrollers/Adafruit\_Feather\_nRF52840\_Sense.md) for ~2 weeks.

### Assignees



No one—assign yourself

### Labels



None yet

### Projects



None yet

### Milestone



No milestone

### Development

Shows branches and pull requests linked to this issue.



## Add a title

Borrow request for Adafruit Feather nRF52840 Sense

## Add a description

Write

Preview

1 piece of [this](#) for ~2 weeks.

### Assignees



No one—[assign yourself](#)

### Labels



None yet

### Projects



None yet

### Milestone



No milestone

### Development

Shows branches and pull requests linked to this issue.

### Helpful resources

[GitHub Community Guidelines](#)

Submit new issue



# Staff workers

- Answer requests
- Hand items out
- Recall due items
- Remind late users
- Deal with lost items
- Take back items

# Collaborators

- Respond to issues
- Label issues as *out*
- Change label to *due*
- Change label to *late*
- Change label to *lost*
- Label as *back*, close

# Borrow request for Adafruit Feather nRF52840 Sense #6

Edit New issue

Open



tamberg commented now

1 piece of [this](#) for ~2 weeks.



Add a comment

Write

Preview

H

B

I

≡

<>

🔗

≡

≡

≡

📎

@

🗨️

...

Add your comment here...

Assignees

No one—[assign yourself](#)

Labels

None yet

Projects

None yet

Milestone

# Borrow request for Adafruit Feather nRF52840 Sense #6

[Edit](#)[New issue](#)[🔗 Open](#)

tamberg commented 1 minute ago

...

1 piece of [this](#) for ~2 weeks.



Assignees



No one—[assign yourself](#)

Labels



Apply labels to this issue

Filter labels

back

due

late

lost

✓ out



Add a comment

Write

Preview

H

B

I

≡

<>

🔗

≡

≡

≡

📎

@

🗨️

Add your comment here...

📖 Markdown is supported

📎 Paste, drop, or click to add files



github.com/fhnw-imvs/fhnw-iot-library/issues/7



# Borrow request for Adafruit Feather nRF52840 Sense #6

Edit

New issue

Open



tamberg commented now



1 piece of [this](#) for ~2 weeks.



tamberg added the **out** label now

Assignees



No one—[assign yourself](#)

Labels



**out**

Projects



None yet

Milestone



Add a comment

# Borrow request for Adafruit Feather nRF52840 Sense #6

Edit

New issue

 Open

tamberg commented 3 minutes ago

...

1 piece of [this](#) for ~2 weeks.



tamberg added the **out** label 2 weeks ago



tamberg added **due** 1 minute ago



Add a comment

Write

Preview

H

B

I

≡

&lt;&gt;

🔗

≡

≡

📌

📎

@

🗨️

...

Assignees

No one—[assign yourself](#)

Labels

**due**

Projects



None yet

Milestone



No milestone

Development

[Create a branch](#)

# Borrow request for Adafruit Feather nRF52840 Sense #6

Edit

New issue

✓ Closed



tamberg commented 6 minutes ago

⋮

1 piece of [this](#) for ~2 weeks.



tamberg added **out** **due** **back** and removed **out** **due** labels 4 minutes ago



tamberg closed this as completed 1 minute ago

Assignees



No one—[assign yourself](#)

Labels



**back**

Projects



None yet

Milestone



# Librarians

- Enter the library
- Read the catalog
- Add new topics
- Add subtopics
- Add items
- Add info

# Hackers

```
$ git clone ../library  
$ cd library && tree  
$ mkdir topic  
$ mkdir topic/sub  
$ touch topic/sub/it.md  
$ python update.py
```

tamberg — git-remote-https < git clone https://github.com/fhnw-imvs/fhnw-iot-library — 80x24

```
tamberg@m3 ~ % git clone https://github.com/fhnw-imvs/fhnw-iot-library
Cloning into 'fhnw-iot-library'...
```

fhnw-iot-library — zsh — 80x24

```
tamberg@m3 ~ % cd fhnw-iot-library && tree
```

```
.
├── Hardware
│   ├── Actuators
│   │   ├── Grove_IR_Emitter.md
│   │   ├── Grove_LED_Bar.md
│   │   ├── Grove_LED_Circular.md
│   │   ├── Grove_LED_Red.md
│   │   ├── Grove_LED_Ring_20_WS2813_Mini.md
│   │   ├── Grove_LED_Stick_10_WS2813_Mini.md
│   │   ├── Grove_LED_Strip_Driver.md
│   │   └── Grove_Piezo_Buzzer.md
│   ├── Adapters
│   │   ├── Feather_to_Grove_Adapter.md
│   │   ├── Pi_Zero_to_Grove_Adapter.md
│   │   └── Xiao_to_Grove_Adapter.md
│   ├── Cameras
│   │   └── Raspberry_Pi_Camera_Module_2.md
│   └── Computers
```



```
fhnw-iot-library — -zsh — 80x24
tamberg@m3 fhnw-iot-library % mkdir Other
Hardware/  Parts/      Tools/
```

```
fhnw-iot-library — -zsh — 80x24
tamberg@m3 fhnw-iot-library % mkdir Hardware/Other
Actuators/      Computers/      Microcontrollers/
Adapters/       Connectivity/   Modules/
Cameras/        Displays/      Sensors/
```

```
fhnw-iot-library — -zsh — 80x24
tamberg@m3 fhnw-iot-library % touch Hardware/Actuators/Grove_
Grove_IR_Emitter.md          Grove_LED_Ring_20_WS2813_Mini.md
Grove_LED_Bar.md             Grove_LED_Stick_10_WS2813_Mini.md
Grove_LED_Circular.md        Grove_LED_Strip_Driver.md
Grove_LED_Red.md             Grove_Piezo_Buzzer.md
```

```
fhnw-iot-library — Python update.py — 80x24
tamberg@m3 fhnw-iot-library % touch Hardware/Actuators/Grove_Servo.md
tamberg@m3 fhnw-iot-library % python3 update.py
update ./Hardware/Actuators/Grove_Servo.md? [y|n|q] y
```

```
fhnw-iot-library — -zsh — 80x24
tamberg@m3 fhnw-iot-library % cat Hardware/Actuators/Grove_Servo.md
# Grove Servo
If there are no [open requests](../../../../../issues?q=is%3Aissue+is%3Aopen+%22Grove+Servo%22+in%3Atitle) you're welcome to [borrow this](../../../../../issues/new?title=Borrow+request+for+Grove+Servo&body=1+piece+of+%5Bthis%5D%28..%2Fblob%2Fmain%2F.%2FHardware%2FActuators%2FGrove_Servo.md%29+for+~2+weeks.).
```

```
fhnw-iot-library — -zsh — 80x24
tamberg@m3 fhnw-iot-library % git add Hardware/Actuators/Grove_Servo.md
tamberg@m3 fhnw-iot-library % git commit Hardware/Actuators/Grove_Servo.md
[main 8c32b18] Update.
 1 file changed, 5 insertions(+), 1 deletion(-)
tamberg@m3 fhnw-iot-library % git push
```

# Books



# Hardware



Box.scad

Editor

```

251     translate([dx + wx + 2 * g, dy + 4 * wy + 5 * g2, wy + dh + g]) rotate([0, 0, 0]) round_cube3(wx, wy, h + 2, 8);
252 }
253
254 //round_box_matrix(wx, wy, h, 8, 1.2, 1, 1);
255 //round_box_matrix(wx, wy, h, 8, 1.2, 1, 2);
256 //round_box_matrix(wx, wy, h, 8, 1.2, 1, 3);
257 round_box_matrix(wx, wy, h, 7.95, 1.2, 1, 4);
258 #translate([1.2 + 4, 1.2, 1.2]) pi_zero_w();
259
260 //round_box_matrix(wx, wy, h, 8, 1.2, 2, 1);
261 //round_box_matrix(wx, wy, h, 8, 1.2, 2, 2);
262 //round_box_matrix(wx, wy, h, 8, 1.2, 2, 3);
263 //round_box_matrix(wx, wy, h, 7.95, 1.2, 2, 4);
264
265 //round_box_matrix(wx, wy, h, 8, 1.2, 3, 1);
266 //#translate([1.2, 1.2 + 8, 1.2]) grove3();
267 //round_box_matrix(wx, wy, h, 8, 1.2, 3, 2);
268 //#translate([1.2 + 1, 1.2 + 2, 1.2]) grove2();
269 //round_box_matrix(wx, wy, h, 8, 1.2, 3, 3);
270 //translate([1.2 + 1, 1.2 + 2, 1.2]) grove();
271 //round_box_matrix(wx, wy, h, 7.95, 1.2, 3, 4);
272
273 //round_box_matrix(wx, wy, h, 8, 1.2, 4, 1);
274 //#translate([1.2, 1.2 + 3, 1.2]) feather();
275 //#translate([1.2, 1.2 + 3, 1.2]) ranger();
276 //round_box_matrix(wx, wy, h, 8, 1.2, 4, 2);
277 //#translate([1.2 + 5, 1.2 + 2, 1.2]) sd_card2();
278 //round_box_matrix(wx, wy, h, 8, 1.2, 4, 3);
279 //round_box_matrix(wx, wy, h, 7.95, 1.2, 4, 4);
280
281 //round_box_grove2(wx, wy, h, 7.95, 1.2);
282
283 //round_cover(wx, wy, 8, 1.2);
284
285 //round_box_matrix(2 * wx, wy / 2, h - 8, 8, 1.2, 2, 1);
286 //round_box_matrix(2 * wx, wy / 2, h - 8, 8, 1.2, 1, 1);
287 //round_cover(2 * wx, wy / 2, 8, 1.2);
288
289 // 34.5 + 2 => 36.5
290 // 1.25 * 1.6 => 2
291 //round_box_matrix(wx, 3 * wy, 34.5, 8, 1.6, 1, 1);
292 //round_cover(wx, 3 * wy, 8, 1.6);
293
294 //rotho_box_packed(wx, wy, h);
295 //rotho_box_packed2(wx, wy, h);
296 //rotho_box_packed3(wx, wy, h);
297 //rotho_box_packed4(wx, wy, h);
298

```

Console

Total rendering time: 0:00:00.727

Saved design '/Users/tamberg/Documents/FabLab/20241107\_boxology/Box.scad'.

Loaded design '/Users/tamberg/Documents/FabLab/20241107\_boxology/Box.scad'.

Compiling design (CSG Tree generation)...

Compiling design (CSG Products generation)...

Geometries in cache: 147

Geometry cache size in bytes: 8720376

CGAL Polyhedrons in cache: 22

CGAL cache size in bytes: 3615072

Compiling design (CSG Products normalization)...

Compiling highlights (1 CSG Trees)...

Normalized tree has 6 elements!

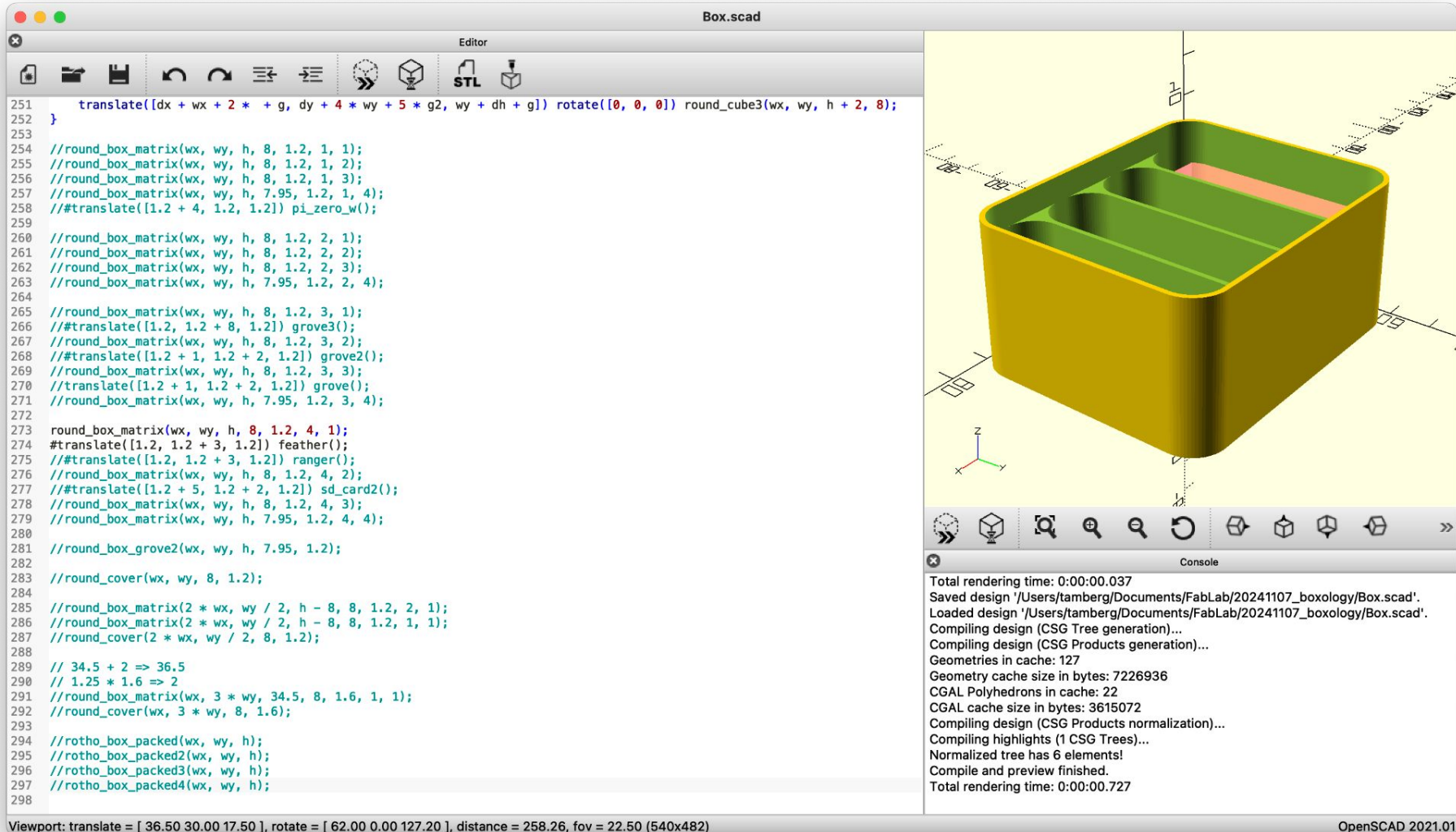
Compile and preview finished.

Total rendering time: 0:00:01.428

Viewport: translate = [ 36.50 30.00 17.50 ], rotate = [ 62.00 0.00 127.20 ], distance = 258.26, fov = 22.50 (540x482)

OpenSCAD 2021.01





Box.scad

Editor

```

251     translate([dx + wx + 2 * g, dy + 4 * wy + 5 * g2, wy + dh + gl]) rotate([0, 0, 0]) round_cube3(wx, wy, h + 2, 8);
252 }
253
254 //round_box_matrix(wx, wy, h, 8, 1.2, 1, 1);
255 //round_box_matrix(wx, wy, h, 8, 1.2, 1, 2);
256 //round_box_matrix(wx, wy, h, 8, 1.2, 1, 3);
257 //round_box_matrix(wx, wy, h, 7.95, 1.2, 1, 4);
258 //translate([1.2 + 4, 1.2, 1.2]) pi_zero_w();
259
260 //round_box_matrix(wx, wy, h, 8, 1.2, 2, 1);
261 //round_box_matrix(wx, wy, h, 8, 1.2, 2, 2);
262 //round_box_matrix(wx, wy, h, 8, 1.2, 2, 3);
263 //round_box_matrix(wx, wy, h, 7.95, 1.2, 2, 4);
264
265 //round_box_matrix(wx, wy, h, 8, 1.2, 3, 1);
266 //translate([1.2, 1.2 + 8, 1.2]) grove3();
267 //round_box_matrix(wx, wy, h, 8, 1.2, 3, 2);
268 //translate([1.2 + 1, 1.2 + 2, 1.2]) grove2();
269 //round_box_matrix(wx, wy, h, 8, 1.2, 3, 3);
270 //translate([1.2 + 1, 1.2 + 2, 1.2]) grove();
271 //round_box_matrix(wx, wy, h, 7.95, 1.2, 3, 4);
272
273 //round_box_matrix(wx, wy, h, 8, 1.2, 4, 1);
274 //translate([1.2, 1.2 + 3, 1.2]) feather();
275 //translate([1.2, 1.2 + 3, 1.2]) ranger();
276 //round_box_matrix(wx, wy, h, 8, 1.2, 4, 2);
277 //translate([1.2 + 5, 1.2 + 2, 1.2]) sd_card2();
278 //round_box_matrix(wx, wy, h, 8, 1.2, 4, 3);
279 //round_box_matrix(wx, wy, h, 7.95, 1.2, 4, 4);
280
281 //round_box_grove2(wx, wy, h, 7.95, 1.2);
282
283 //round_cover(wx, wy, 8, 1.2);
284
285 //round_box_matrix(2 * wx, wy / 2, h - 8, 8, 1.2, 2, 1);
286 //round_box_matrix(2 * wx, wy / 2, h - 8, 8, 1.2, 1, 1);
287 //round_cover(2 * wx, wy / 2, 8, 1.2);
288
289 // 34.5 + 2 => 36.5
290 // 1.25 * 1.6 => 2
291 //round_box_matrix(wx, 3 * wy, 34.5, 8, 1.6, 1, 1);
292 //round_cover(wx, 3 * wy, 8, 1.6);
293
294 //rotho_box_packed(wx, wy, h);
295 //rotho_box_packed2(wx, wy, h);
296 //rotho_box_packed3(wx, wy, h);
297 rotho_box_packed4(wx, wy, h);
298

```

Console

Total rendering time: 0:00:00.084

Saved design '/Users/tamberg/Documents/FabLab/20241107\_boxology/Box.scad'.

Loaded design '/Users/tamberg/Documents/FabLab/20241107\_boxology/Box.scad'.

Compiling design (CSG Tree generation)...

Compiling design (CSG Products generation)...

Geometries in cache: 103

Geometry cache size in bytes: 4973720

CGAL Polyhedrons in cache: 22

CGAL cache size in bytes: 3615072

Compiling design (CSG Products normalization)...

Compiling highlights (1 CSG Trees)...

Normalized tree has 26 elements!

Compile and preview finished.

Total rendering time: 0:00:00.037

Viewport: translate = [ 91.00 157.50 54.00 ], rotate = [ 62.00 0.00 127.20 ], distance = 972.60, fov = 22.50 (540x482)

OpenSCAD 2021.01

# More



- [github.com/fhnw-imvs/fhnw-iot-library](https://github.com/fhnw-imvs/fhnw-iot-library)
- [github.com/tamberg/library](https://github.com/tamberg/library)
- [github.com/tamberg/boxes](https://github.com/tamberg/boxes)



Thanks.