



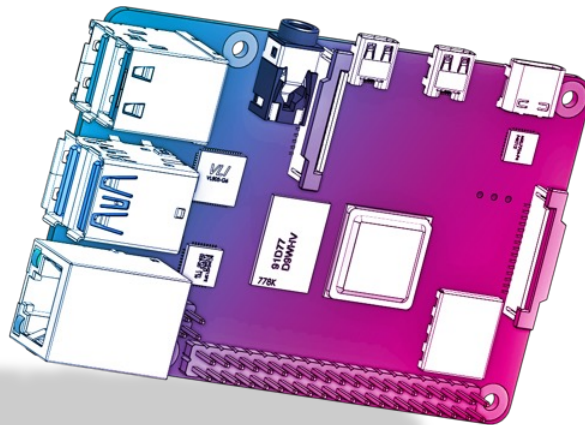
How to build your robot

www.pib.rocks/build

instructions for:

BRICKLET SETUP

v2024



PRINT

BUILD

DEVELOP

YOUR OWN ROBOT

Build it better: our suggestion for assembling pib



We recommend **tools** for each step. These are a suggestion, you can of course also use other tools.



1-5

We have categorized each step according to its **difficulty** - from **1-5** (1 being the easiest, 5 the hardest)

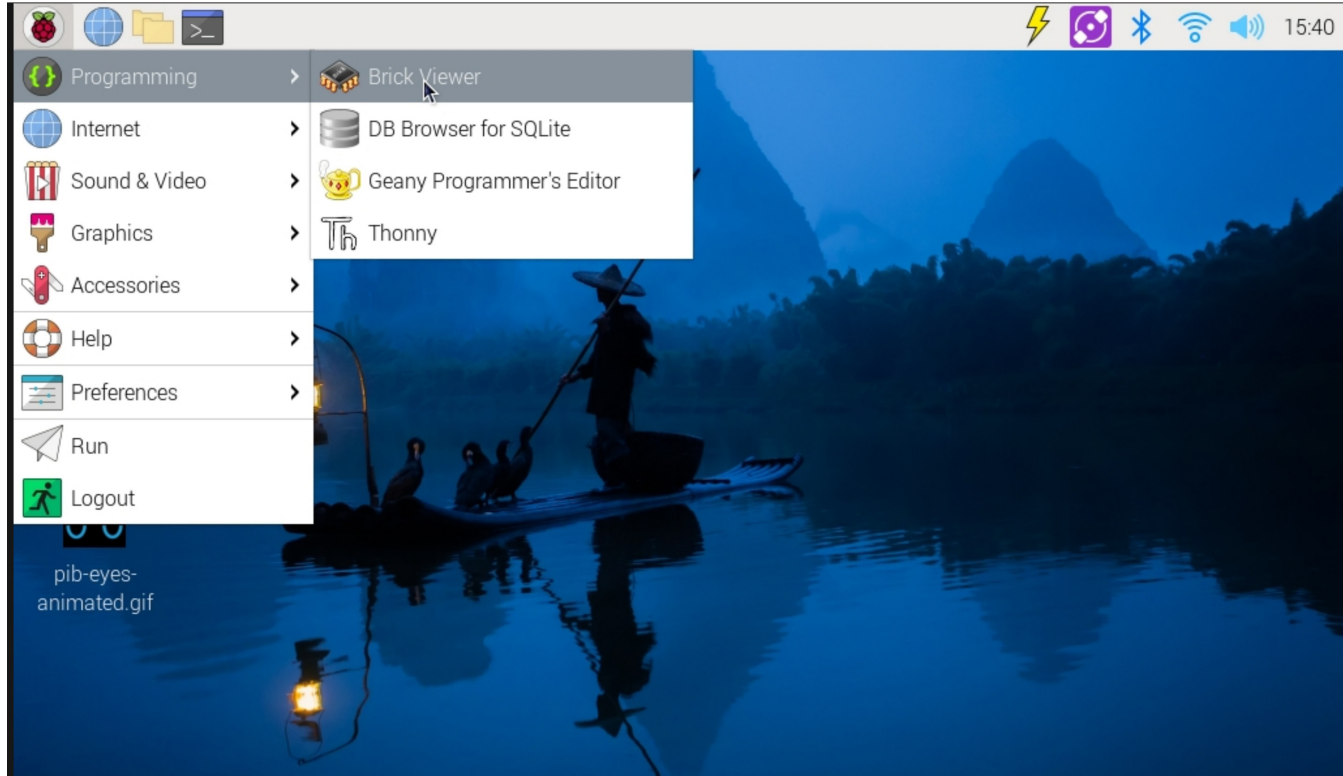


We also show you which **non-printable parts** you need for each step

Step 1

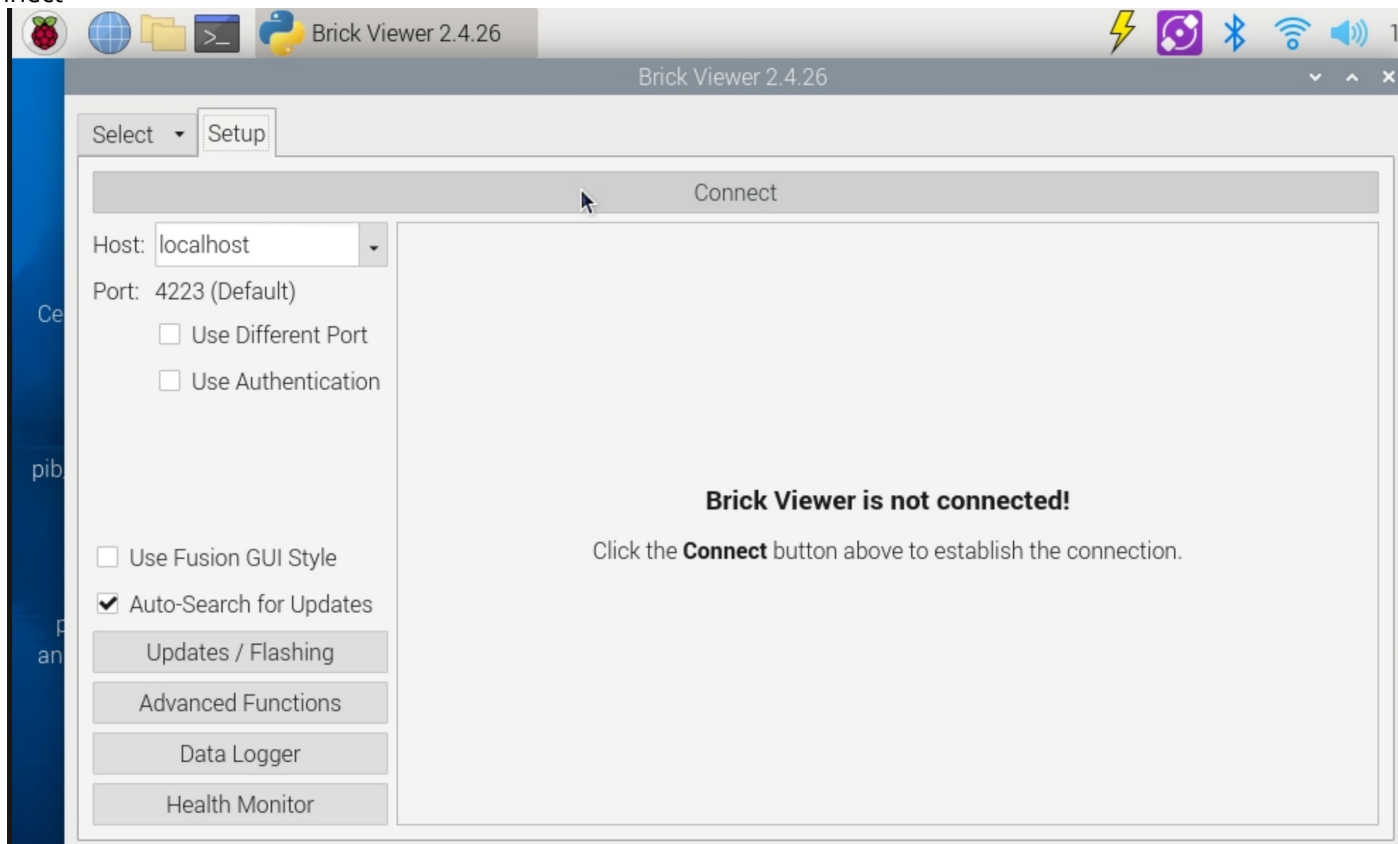


Click on the top left Raspberry icon, then point at programming and select brick viewer



Step 2a

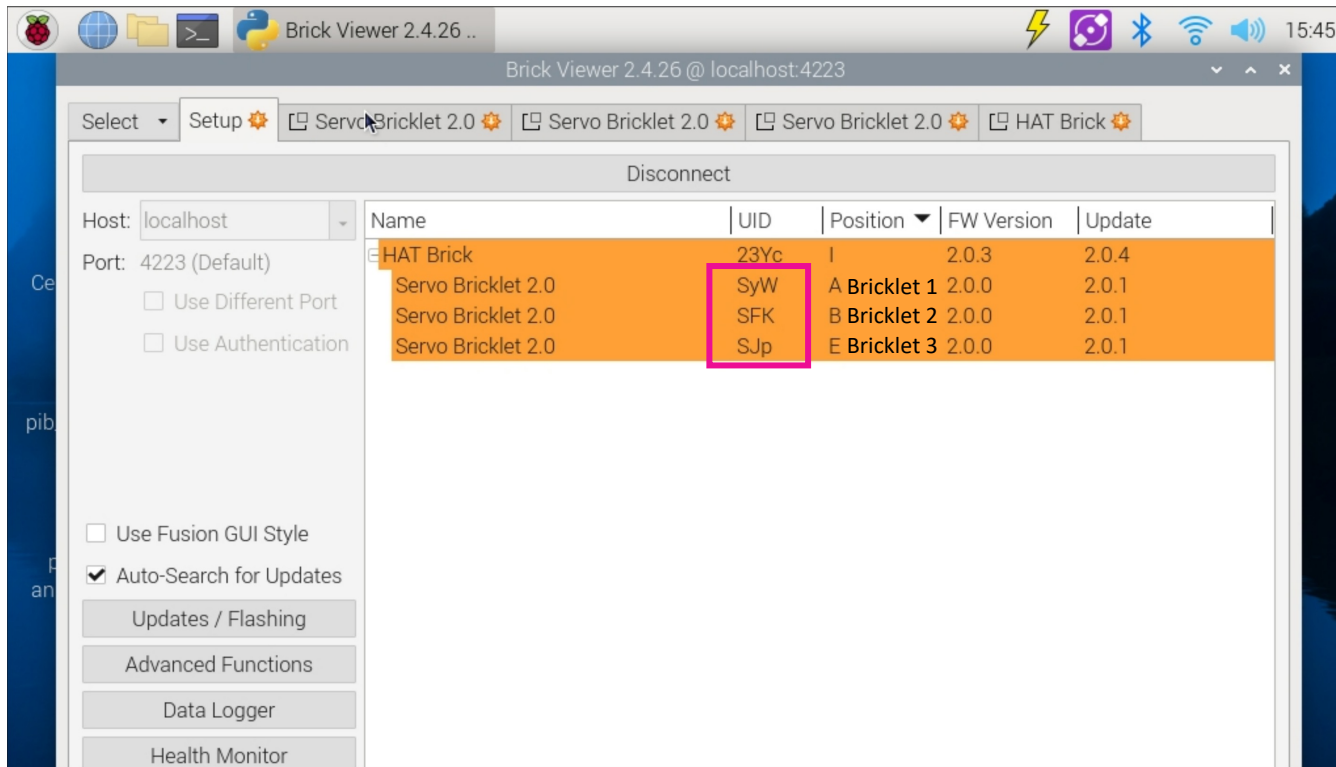
Click on connect



Step 2b



Write the UUIDs beside each bricklet in a piece of paper (case sensitive), but make sure you connected brickletc cables to correct ports as the picture



The screenshot shows the Brick Viewer 2.4.26 application window. The top bar indicates the connection is to 'localhost:4223'. The main interface displays a list of connected bricklets in a table format. The table has columns for Name, UID, Position, FW Version, and Update. The following table represents the data shown in the screenshot:

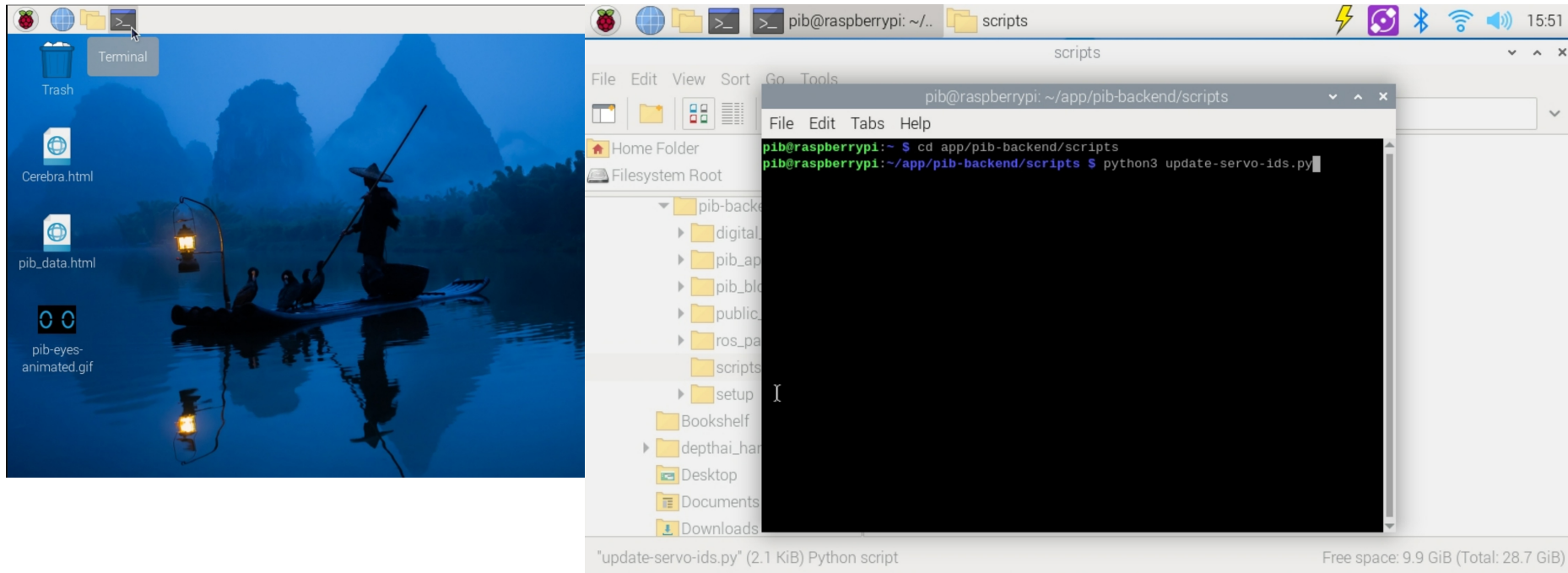
Name	UID	Position	FW Version	Update
HAT Brick	23Yc	I	2.0.3	2.0.4
Servo Bricklet 2.0	SyW	A Bricklet 1	2.0.0	2.0.1
Servo Bricklet 2.0	SFK	B Bricklet 2	2.0.0	2.0.1
Servo Bricklet 2.0	SJp	E Bricklet 3	2.0.0	2.0.1

The UID 'SyW' for the first Servo Bricklet is highlighted with a pink box. The application window also shows various settings on the left, such as 'Host: localhost', 'Port: 4223 (Default)', and checkboxes for 'Use Different Port', 'Use Authentication', 'Use Fusion GUI Style', and 'Auto-Search for Updates'.

Step 3



Open a new terminal window and run the shown commands



Step 4



Click enter on the last command shown in the previous step, and then enter the UIDs retrieved in step 2b, click enter and then **Restart**

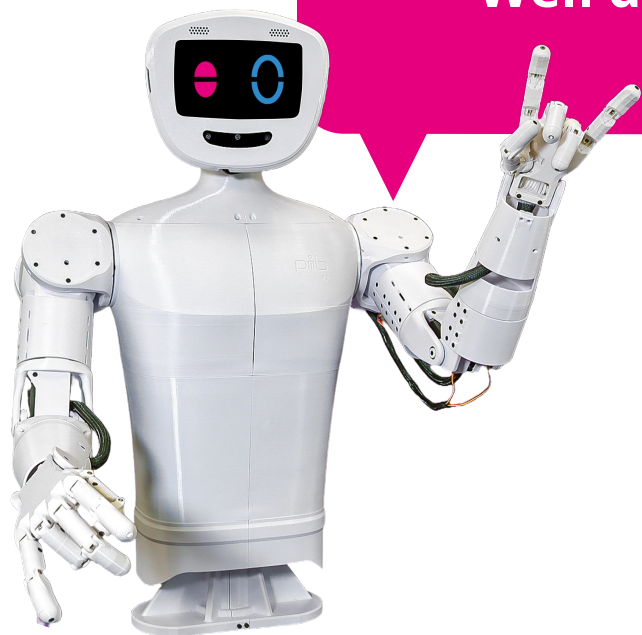
The screenshot shows a Raspberry Pi desktop environment. A file manager window is open, displaying the contents of the `scripts` directory. Overlaid on this is a terminal window titled `pib@raspberrypi: ~/app/pib-backend/scripts`. The terminal shows the following commands and output:

```
pib@raspberrypi:~$ cd app/pib-backend/scripts
pib@raspberrypi:~/app/pib-backend/scripts$ python3 update-servo-ids.py
Please enter the ID for bricklet 1: SyW
Please enter the ID for bricklet 2: SFK
Please enter the ID for bricklet 3: SJp
New uids were successfully set
pib@raspberrypi:~/app/pib-backend/scripts$
```

The file manager window shows a sidebar with a file tree including `Home Folder`, `Filesystem Root`, and various subdirectories like `pib-back`, `digital`, `pib_ap`, `pib_bld`, `public`, `ros_pa`, `scripts`, and `setup`. The main pane shows the contents of the `scripts` directory. The status bar at the bottom indicates the file `"update-servo-ids.py" (2.1 KiB) Python script` and the free space: `Free space: 9.9 GiB (Total: 28.7 GiB)`.

Congratulations

You did a great job, bricklets are set!



Well done!

Do you need support?

Or do you need our pib.Box with all non-printable parts?

Or maybe you have some new ideas and improvements?

Please contact us.



team@pib.rocks

Send us an email.



discord.com/invite/GRdpyeDu7P

Join us on Discord.



shop.pib.rocks

Order non-printable parts for pib.