



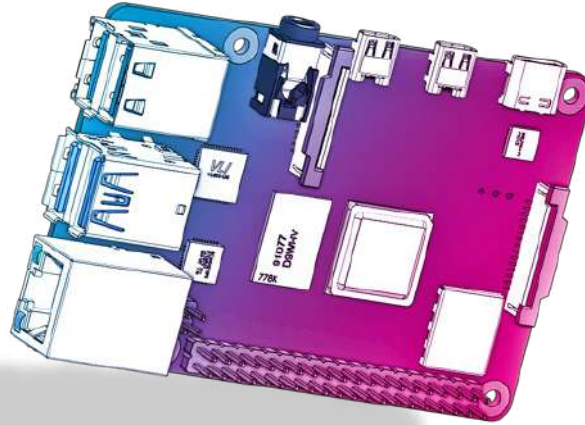
How to build your robot

www.pib.rocks/build

instructions for:

Changing burned pins

pib#4



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)

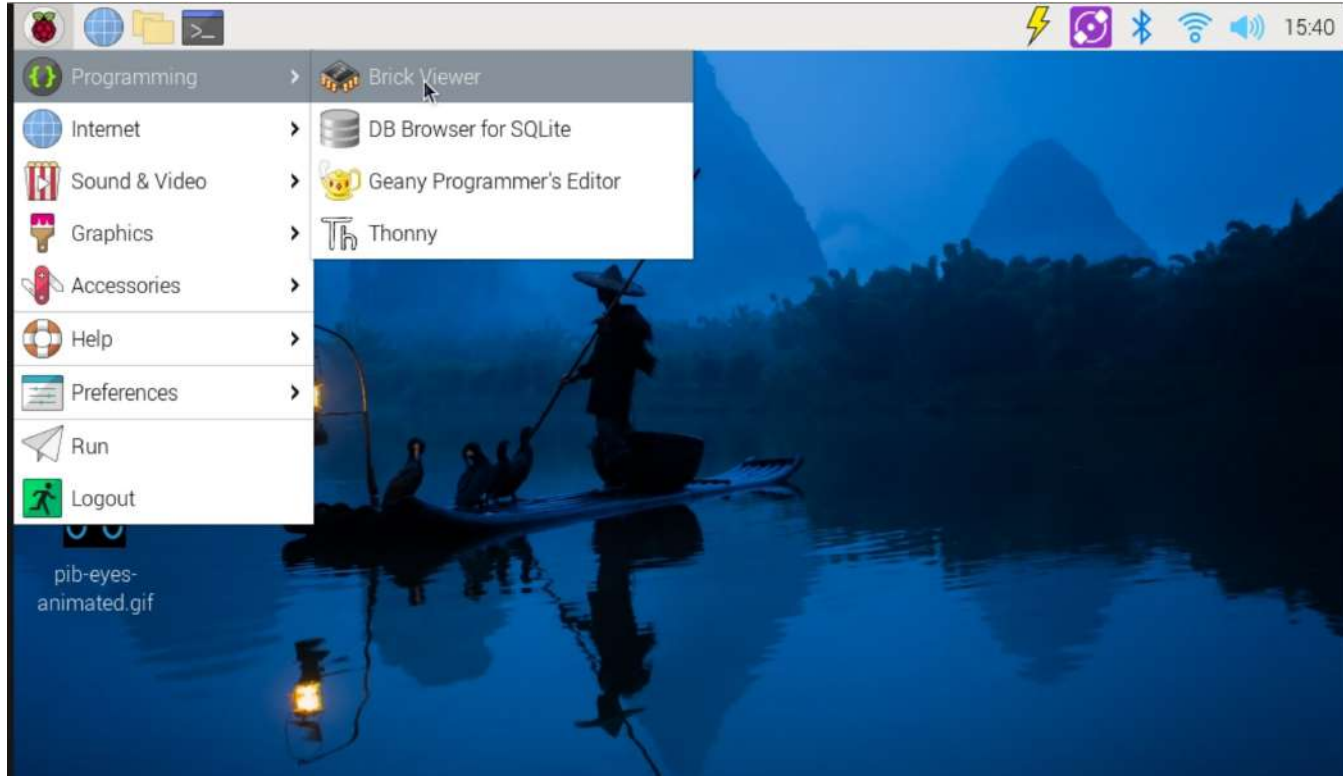


We also show you which **non-printable parts** you need for each step

Step 1a

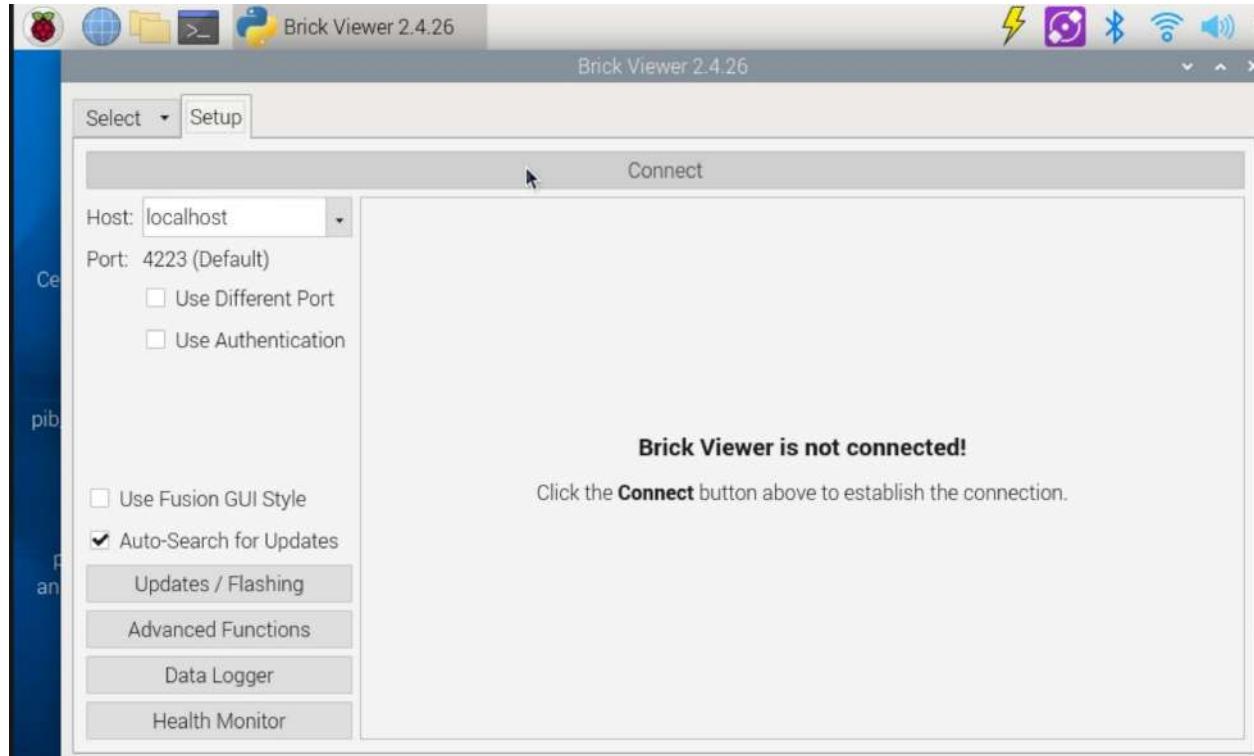


Click on the top left Raspberry icon, then point at programming and select brick viewer



Step 1b

Click on connect

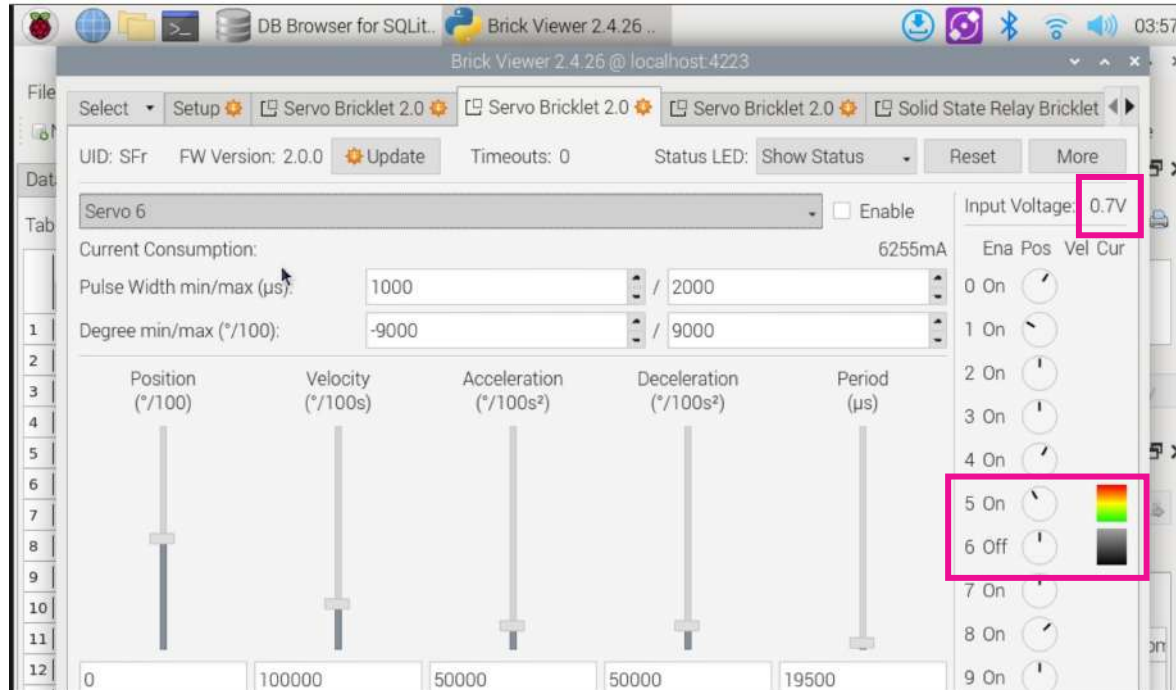


This connects all connected tinkertforge icomponents (1x Relay Bricklet, 3x Servo Bricklet) to the brick viewer software

Step 1c

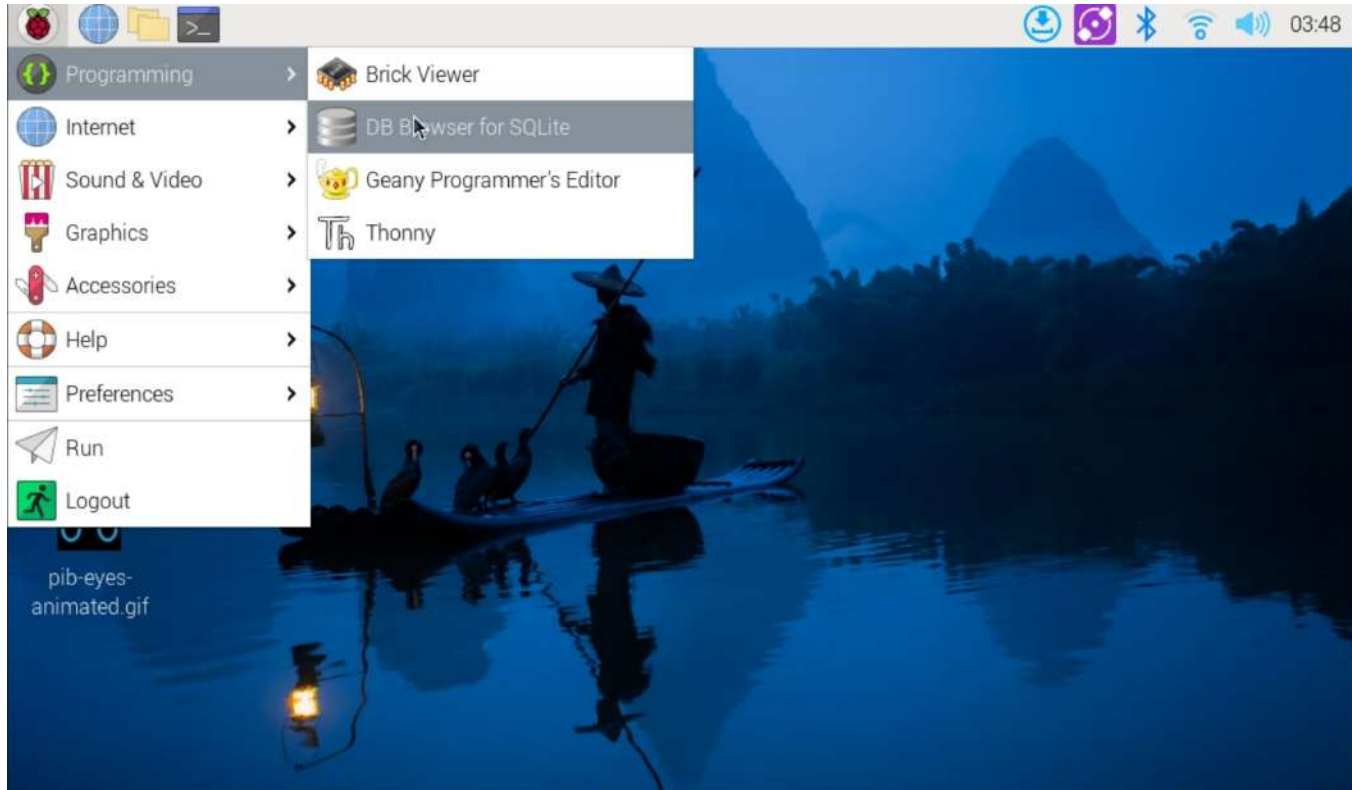


Memmorize the location of the burned pin, in this case bricklet UID "SFr" is **bricklet 1** and **burned servo is 6**. A burned pin should have unreasonable current draw, more than **4000ma** and an infographic thats in black or very colorful while in no load like servo 5. The burned pin should also not respond to your input. The burned pin might still have the high current draw at 0 voltage with unreasonable



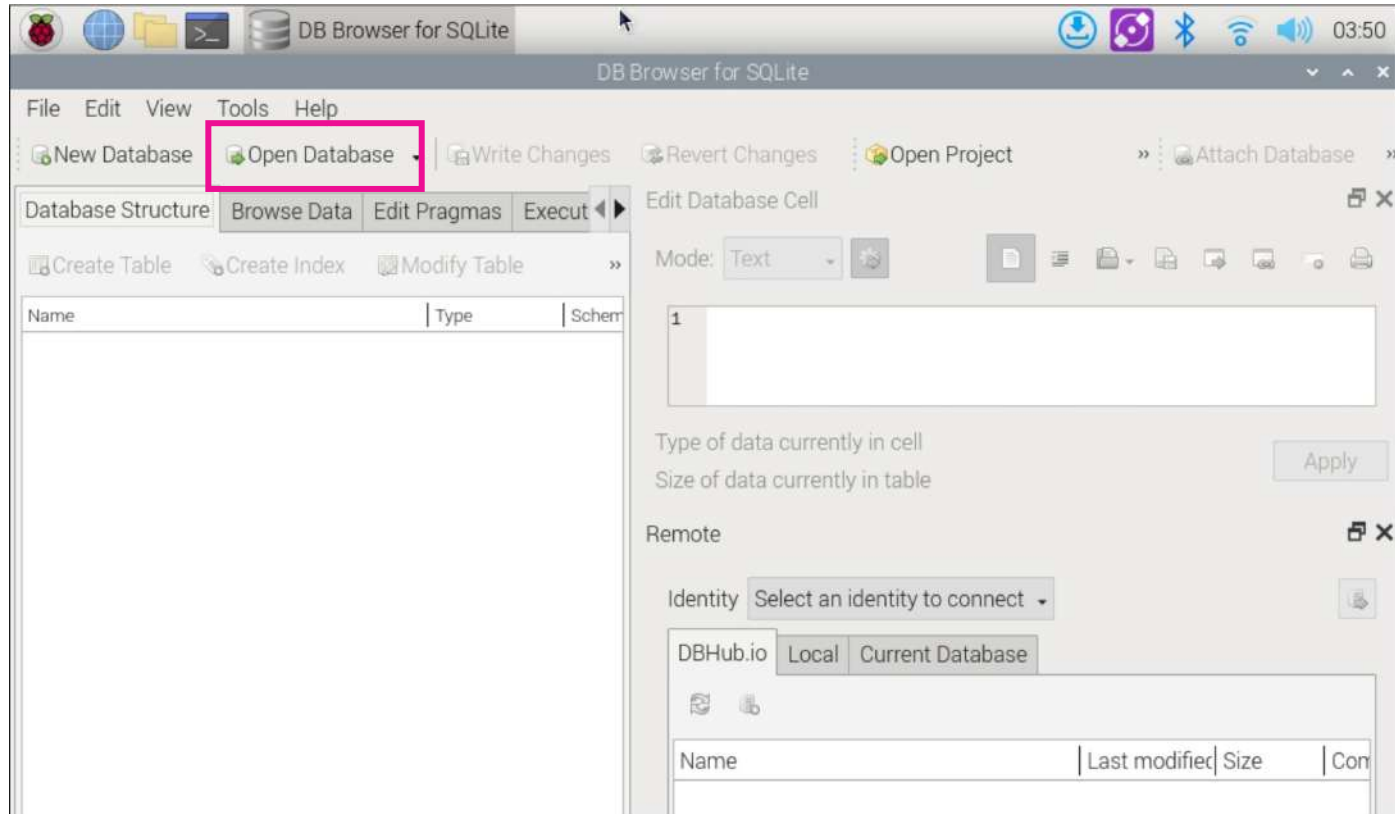
Step 2a

Click on the top left Raspberry icon, then point at programming and select DB browser for SQLite



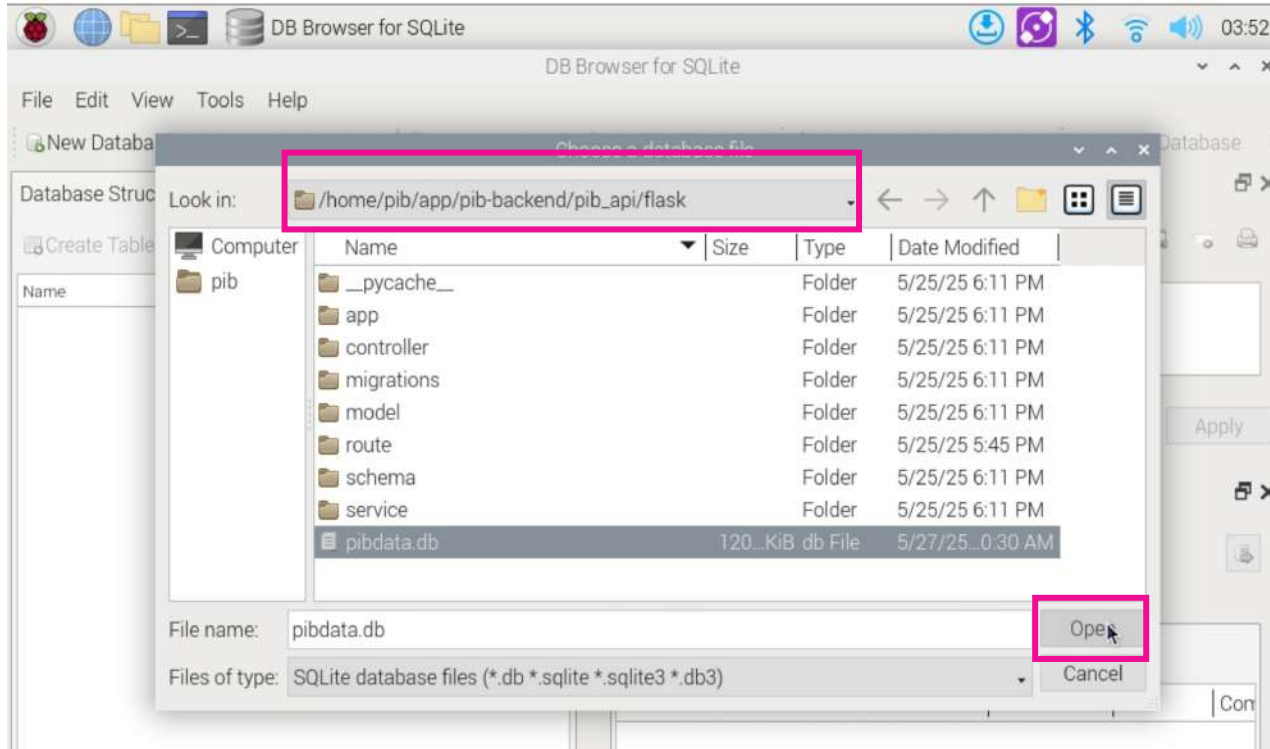
Step 2b

Click on open database



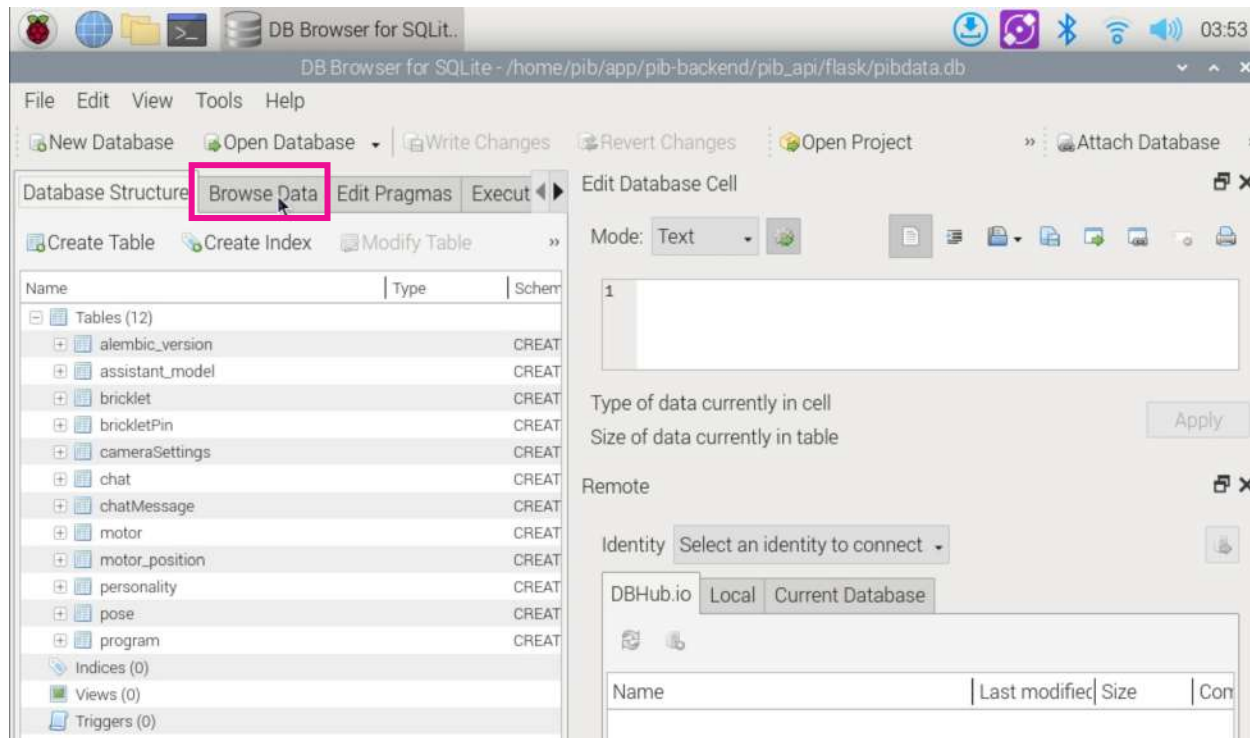
Step 2c

Navigate to `app/pib-backend/pib_api/flask` and select `pib_data.db`



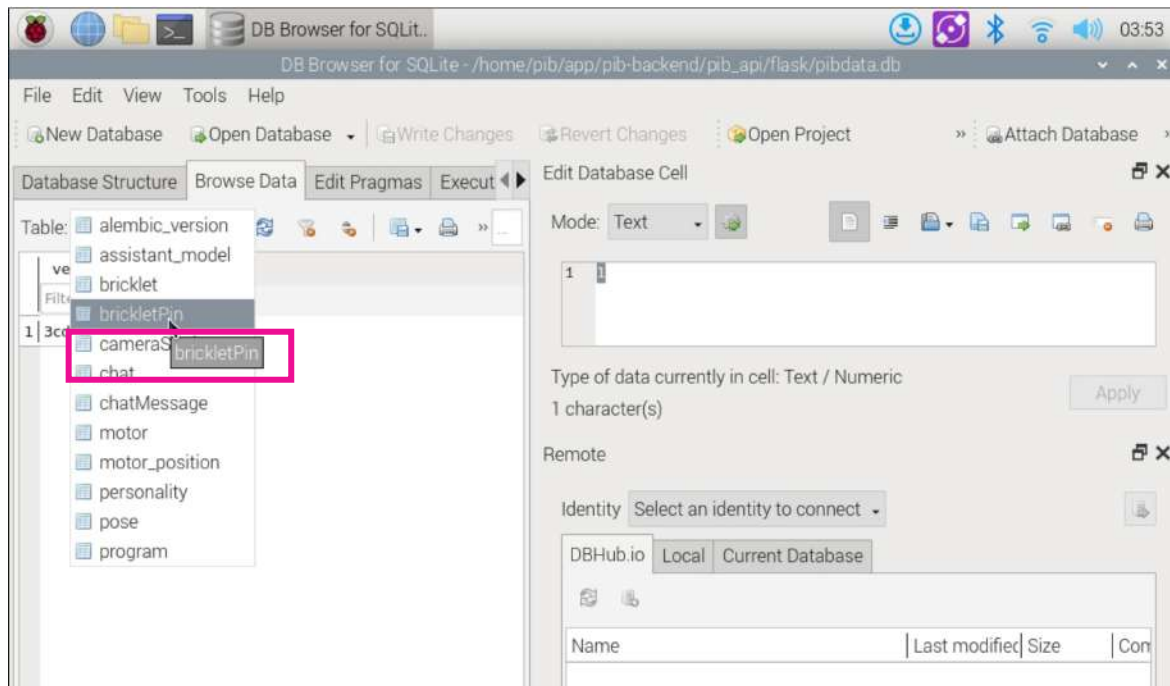
Step 3a

Click on browse data



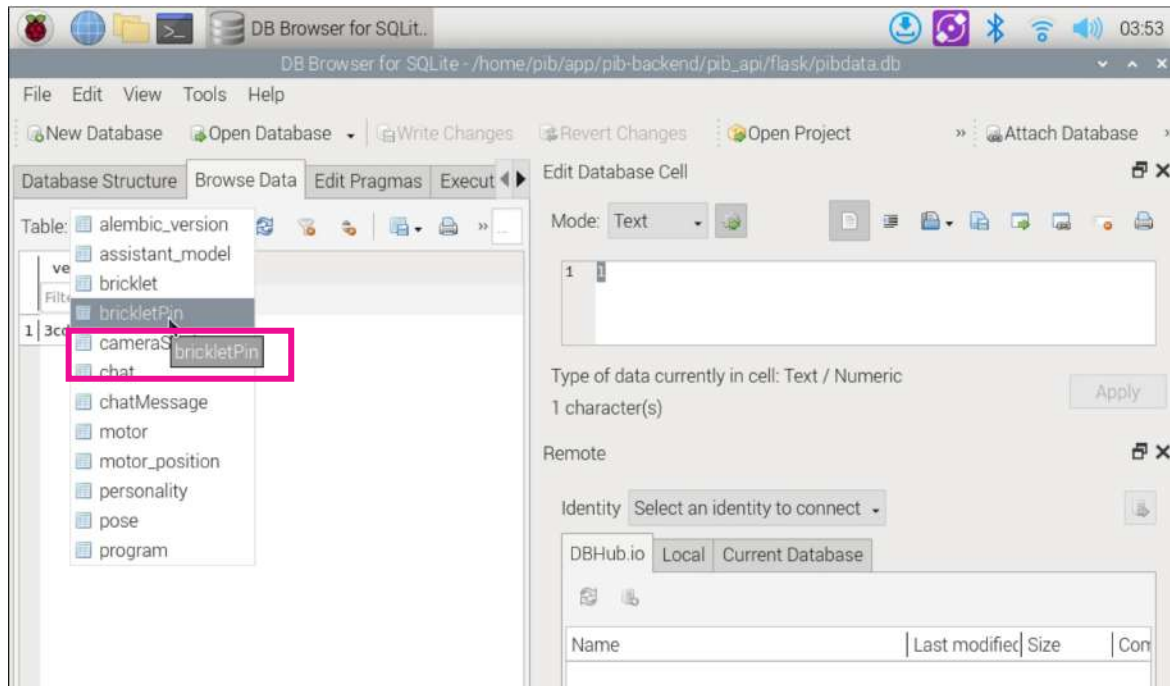
Step 3b

Click on table and choose brickletPin



Step 4a

Click on table and choose brickletPin



Step 4b



Change bricklet number from 1 to **2** and pin from 6 to one of the spare replacment pins (**2,3,6,7**)

DB Browser for SQLite - /home/pi/b/app/pi-b-backend/pi-b_api/flask/piadata.db

File Edit View Tools Help

New Database Open Database Write Changes Revert Changes Open Project Attach Database

Database Structure Browse Data Edit Pragmas Execut Edit Database Cell

Table: brickletPin

id	motor_id	bricklet_id	pin	invert	
7	7	7	2	8	0
8	8	8	1	9	0
9	9	9	1	8	0
10	10	10	1	7	0
11	11	11	2	1	0
12	12	12	2	0	0
13	13	13	1	0	0
14	14	14	1	1	0
15	15	15	1	2	0
16	16	16	1	3	0
17	17	17	2	2	0
18	18	18	1	6	0
19	19	19	3	0	0

Type of data currently in cell: Text / Numeric
1 character(s)

Remote

Identity Select an identity to connect

DBHub.io Local Current Database

Name Last modified Size Con

Step 4c

Click on write changes and restart pib



DB Browser for SQLite - /home/pib/app/pib-backend/pib_api/flask/pibdata.db

File Edit View Tools Help

New Database Open Database **Write Changes** Revert Changes Open Project Attach Database

Database Structure Browse Data Edit Pragmas Execut

Table: brickletPin

	id	motor_id	bricklet_id	pin	invert
	Fi...	Filter	Filter	Fi...	Filter
7	7	7	2	8	0
8	8	8	1	9	0
9	9	9	1	8	0
10	10	10	1	7	0
11	11	11	2	1	0
12	12	12	2	0	0
13	13	13	1	0	0
14	14	14	1	1	0
15	15	15	1	2	0
16	16	16	1	3	0
17	17	17	1	4	0
18	18	18	2	2	0
19	19	19	3	0	0

Mode: Text

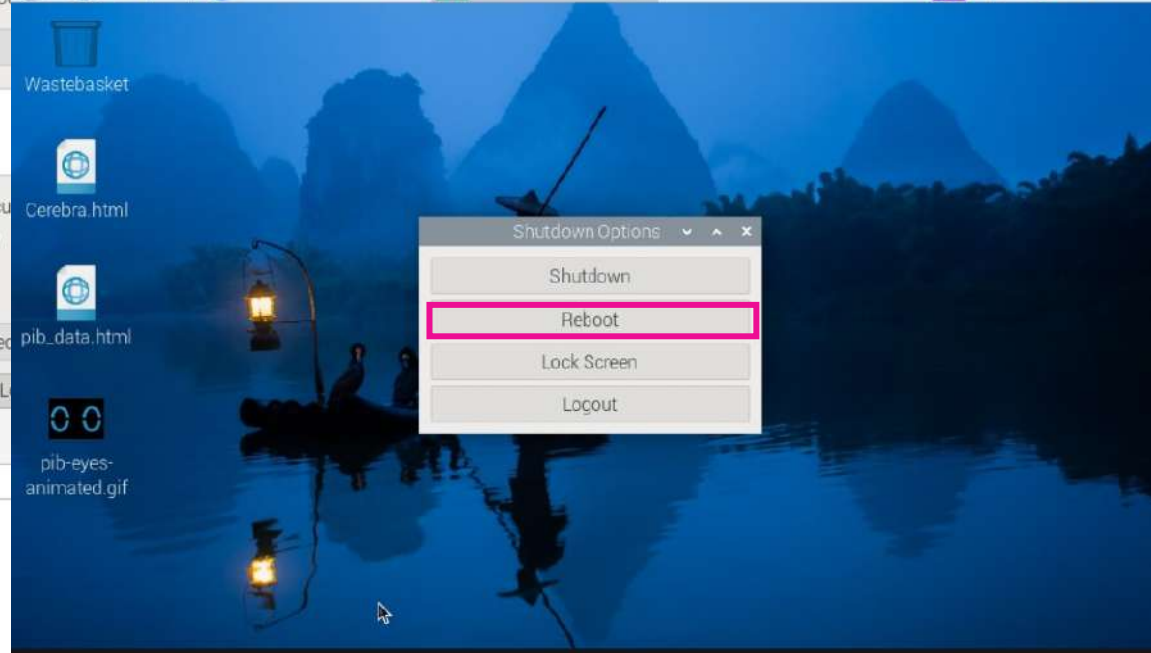
Type of data cu
1 character(s)

Remote

Identity Selected

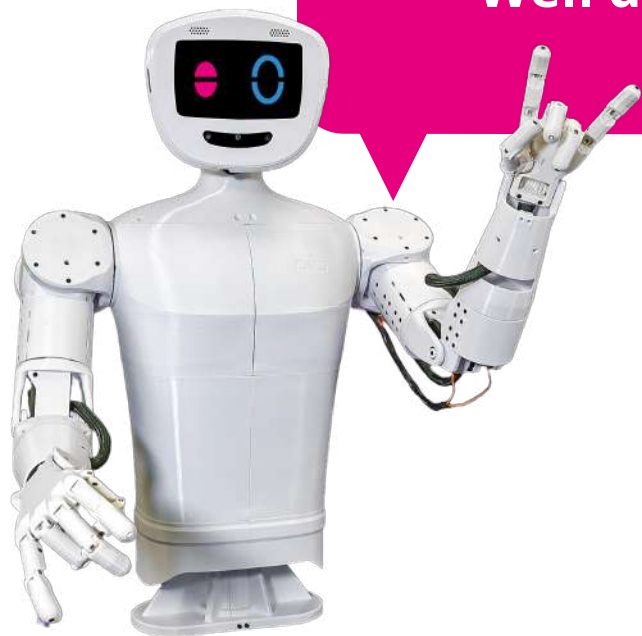
DBHub.io

Name



Congratulations

You did a great job, you have fixed burned pins in pib!



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.