



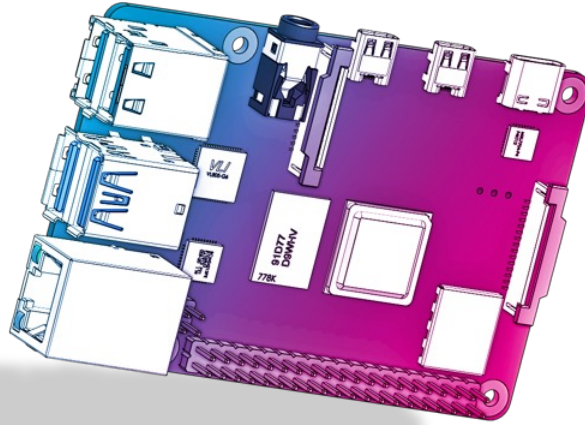
How to build your robot

www.pib.rocks/build

instructions for:

Changing burned pins

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)

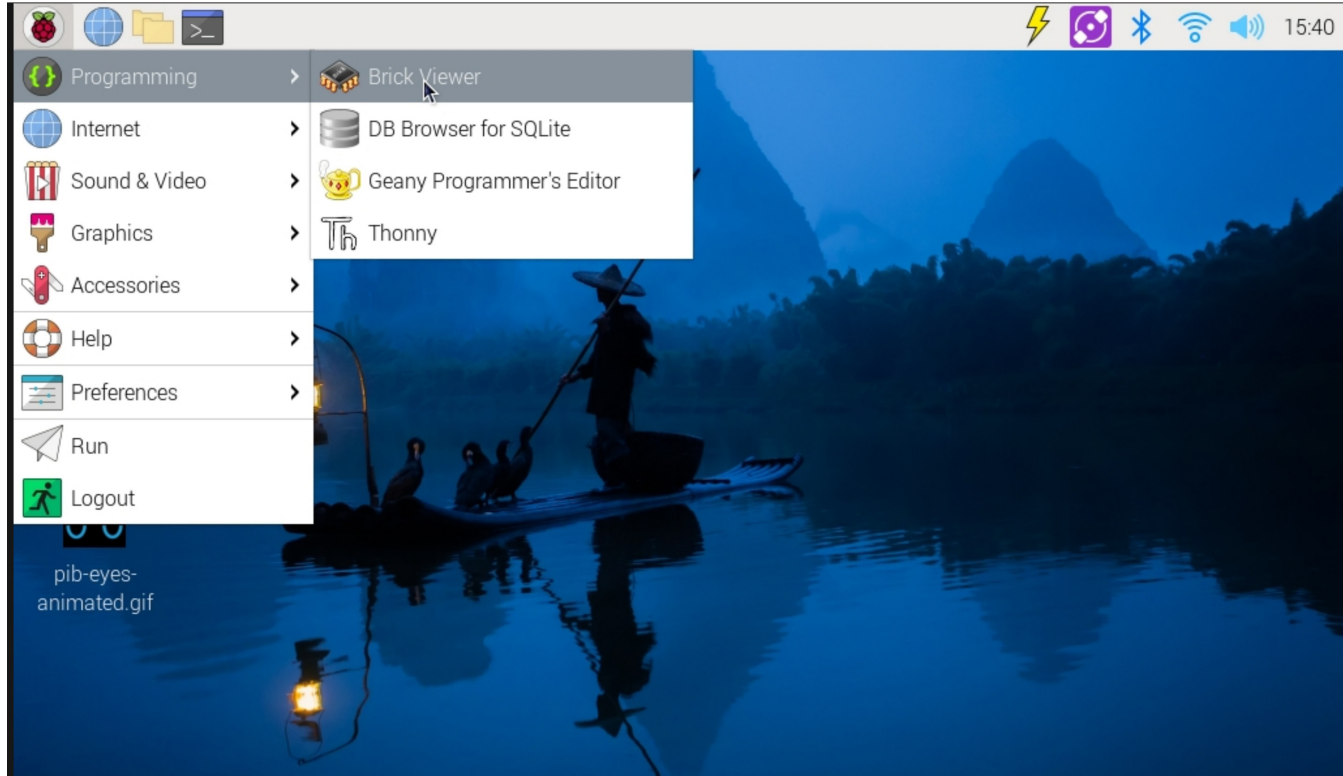


We also show you which **non-printable parts** you need for each step

Step 1a

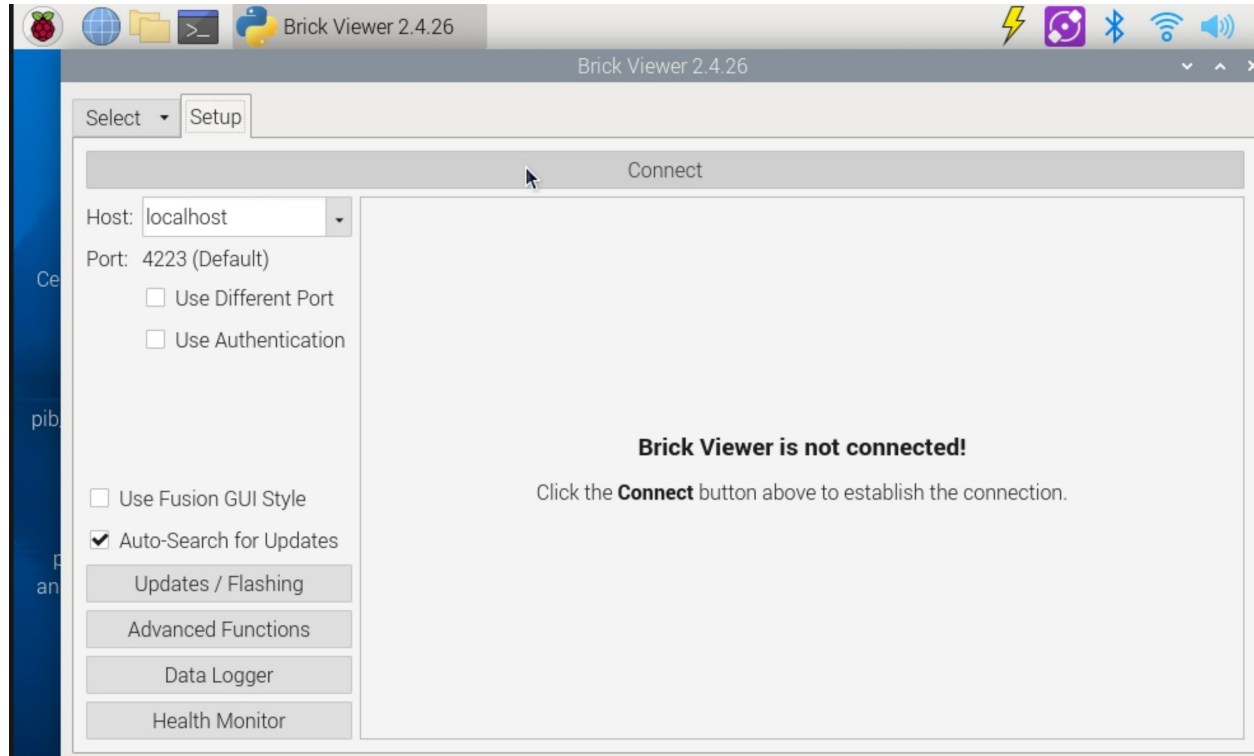


Click on the top left Raspberry icon, then point at programming and select brick viewer



Step 1b

Click on connect



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

Brick Viewer 2.4.26 @ localhost:4223

Select Setup Servo Bricklet 2.0 Servo Bricklet 2.0 Servo Bricklet 2.0 Solid State Relay Bricklet

UID: SFr FW Version: 2.0.0 Update Timeouts: 0 Status LED: Show Status Reset More

Servo 6 ☐ Enable Input Voltage: 0.7V

Current Consumption: 6255mA

Pulse Width min/max (µs): 1000 / 2000

Degree min/max (°/100): -9000 / 9000

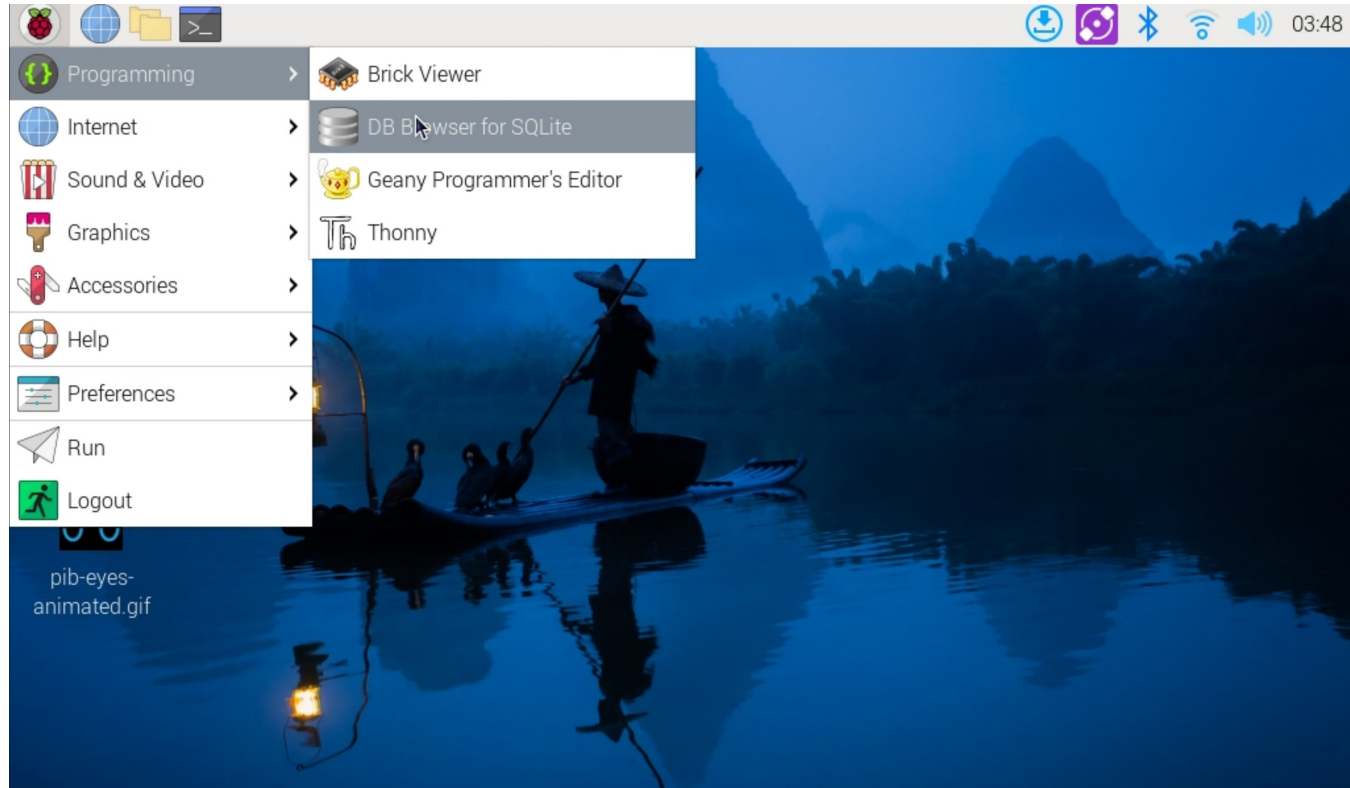
Position (°/100) Velocity (°/100s) Acceleration (°/100s²) Deceleration (°/100s²) Period (µs)

0 100000 50000 50000 19500

0 On 1 On 2 On 3 On 4 On 5 On 6 Off 7 On 8 On 9 On

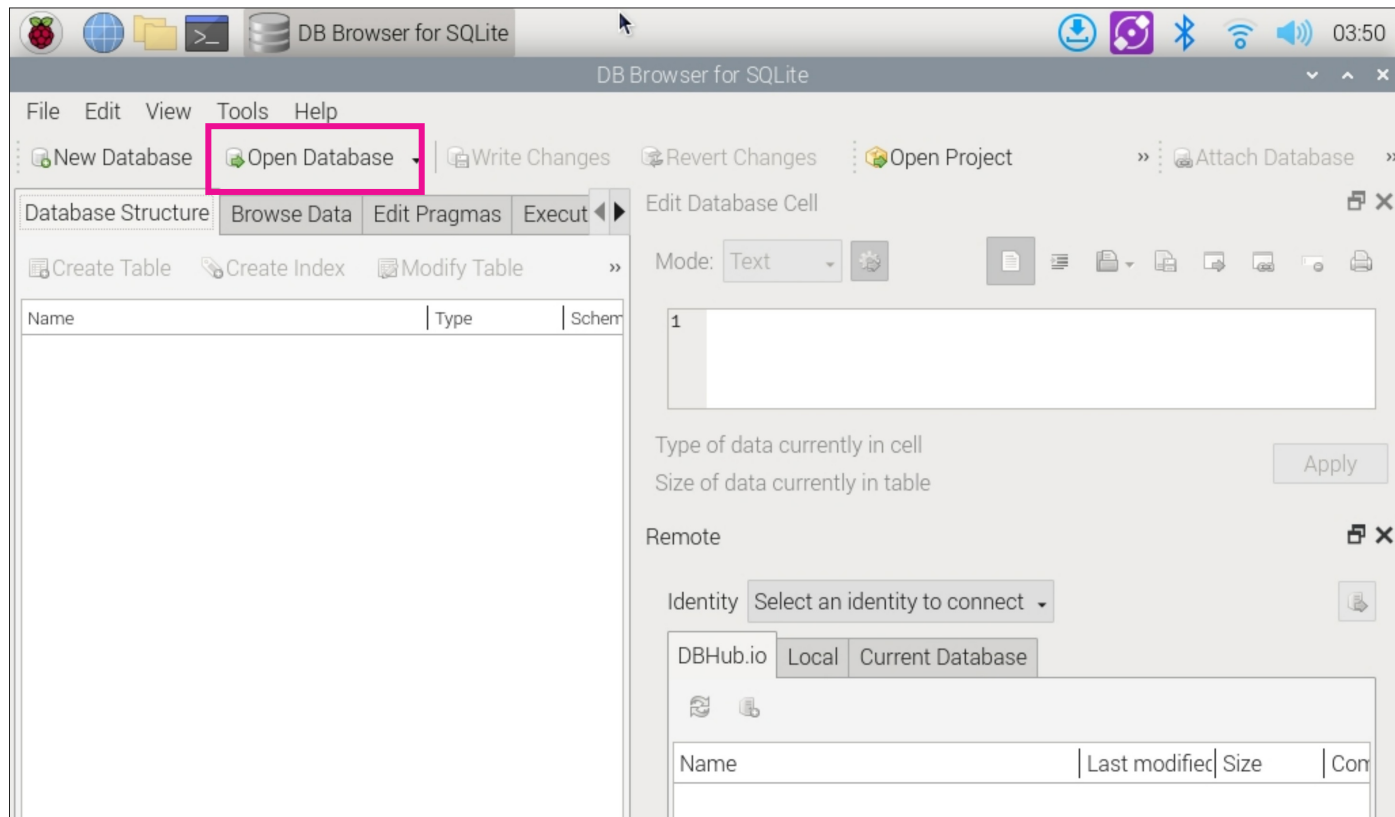
Step 2a

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



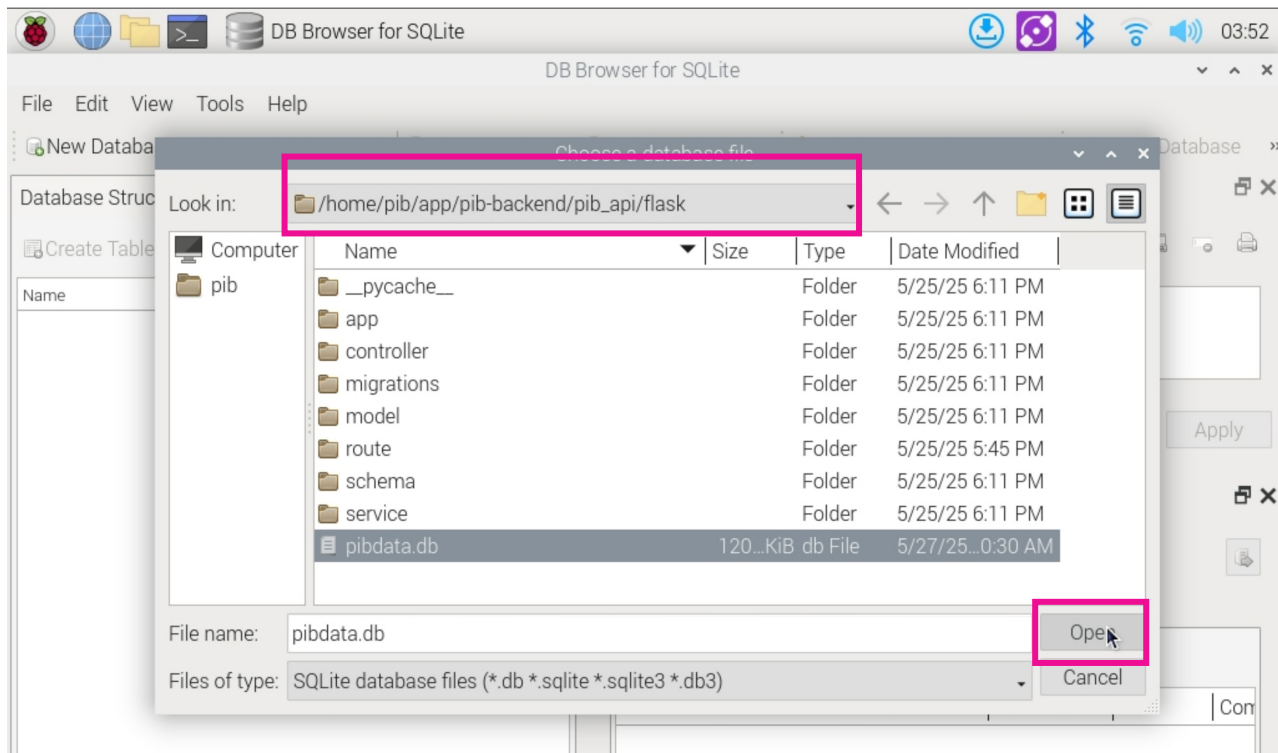
Step 2b

Click on open database



Step 2c

Navigate to `app/piib-backend/piib_api/flask` and select `piib_data.db`



Step 3a

Click on browse data



DB Browser for SQLite

File Edit View Tools Help

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

Database Structure **Browse Data** Edit Pragmas Execut

Create Table Create Index Modify Table

Name	Type	Schem
Tables (12)		
alembic_version	CREAT	
assistant_model	CREAT	
bricklet	CREAT	
brickletPin	CREAT	
cameraSettings	CREAT	
chat	CREAT	
chatMessage	CREAT	
motor	CREAT	
motor_position	CREAT	
personality	CREAT	
pose	CREAT	
program	CREAT	
Indices (0)		
Views (0)		
Triggers (0)		

Edit Database Cell

Mode: Text

1

Type of data currently in cell

Size of data currently in table

Apply

Remote

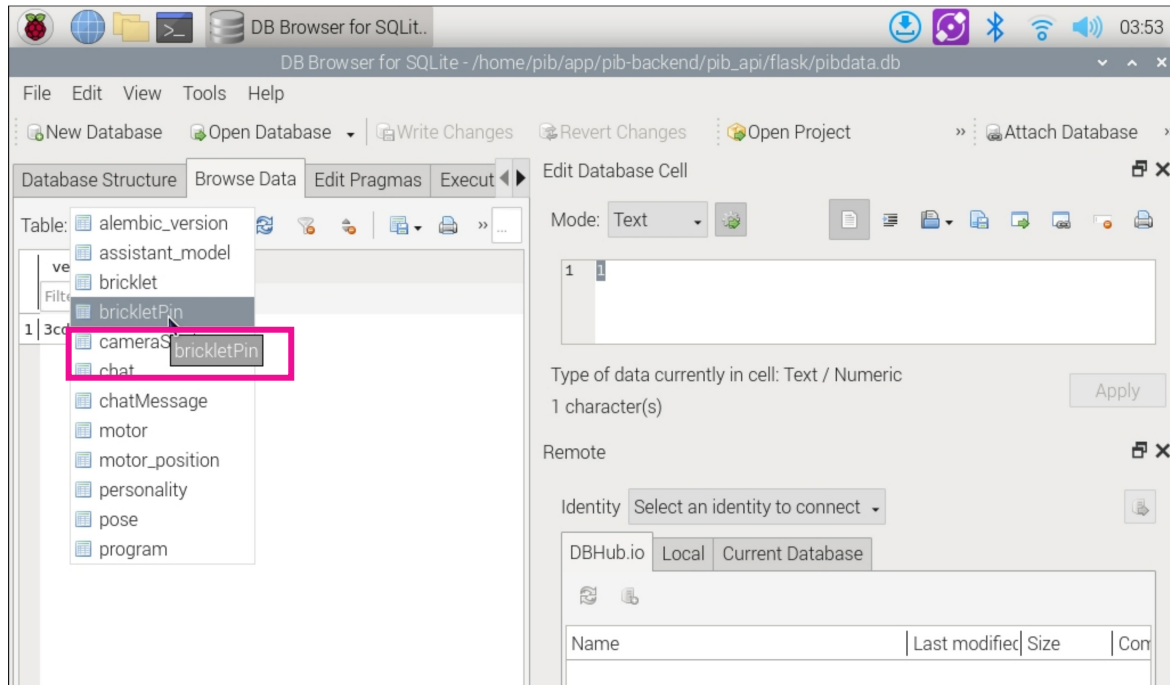
Identity Select an identity to connect

DBHub.io Local Current Database

Name	Last modified	Size	Con
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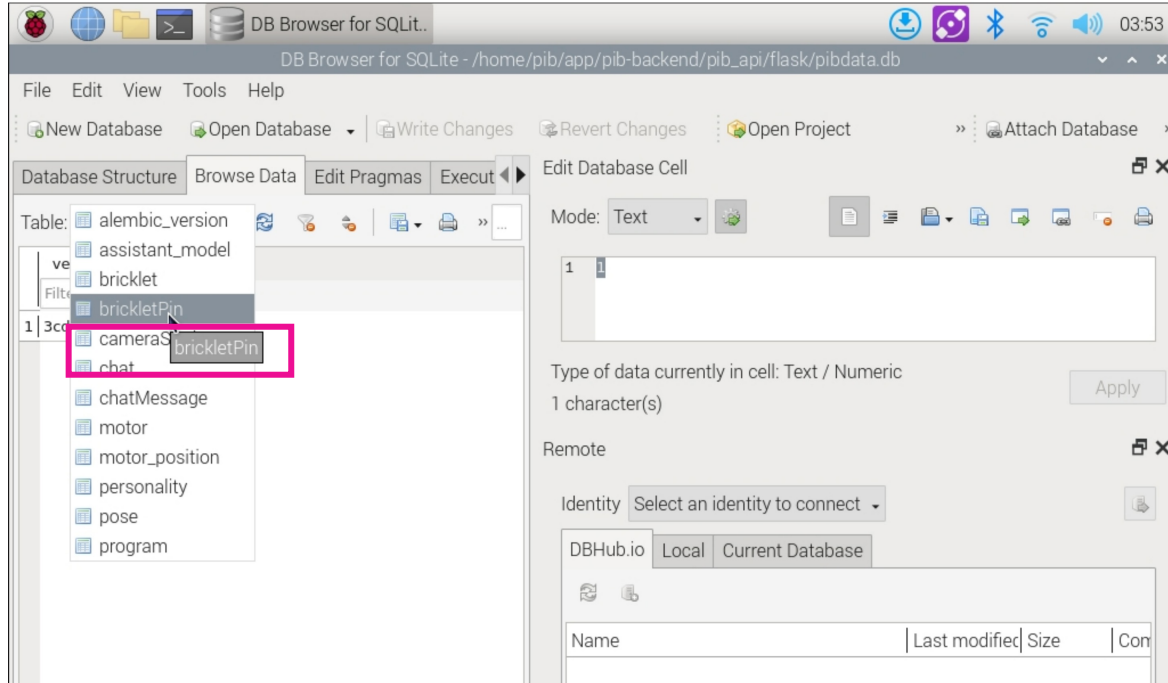
Step 3b

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)

The image displays two screenshots of the DB Browser for SQLite application, showing the 'brickletPin' table. The left screenshot shows the original data, and the right screenshot shows the updated data after the changes described in the text.

Left Screenshot (Original Data):

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	1	4	0
18	18	1	6	0	0
19	19	3	0	0	0

Right Screenshot (Updated Data):

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	1	4	0
18	18	2	2	0	0
19	19	3	0	0	0

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

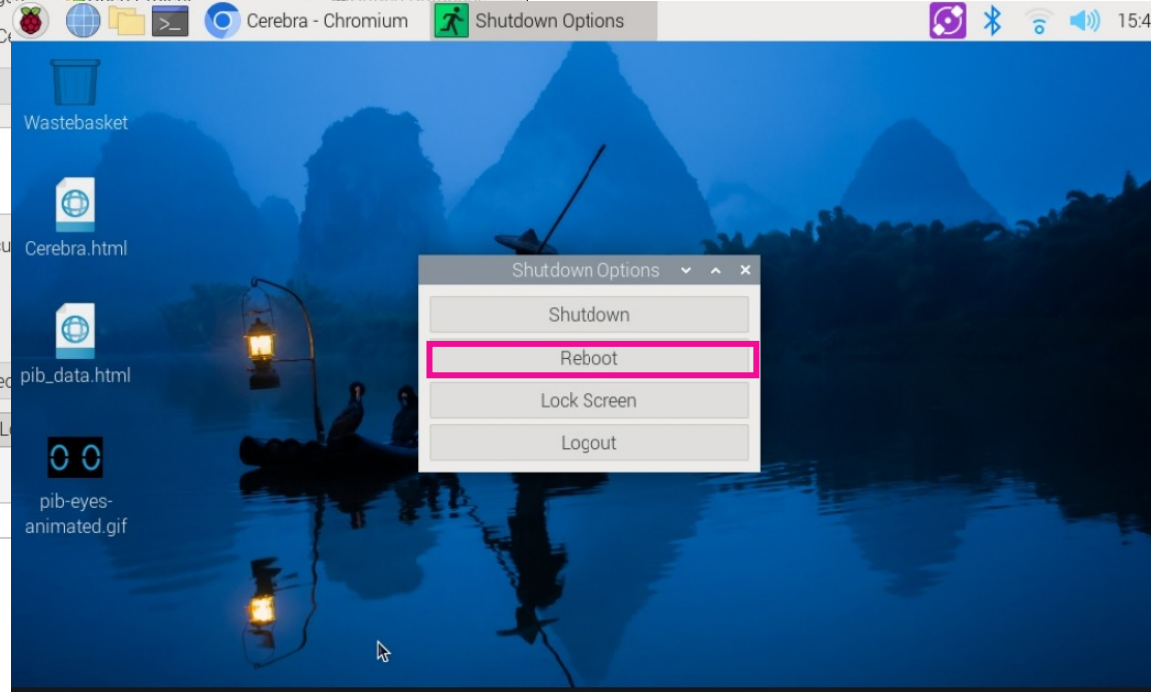
Type of data cu
1 character(s)

Remote

Identity Selected

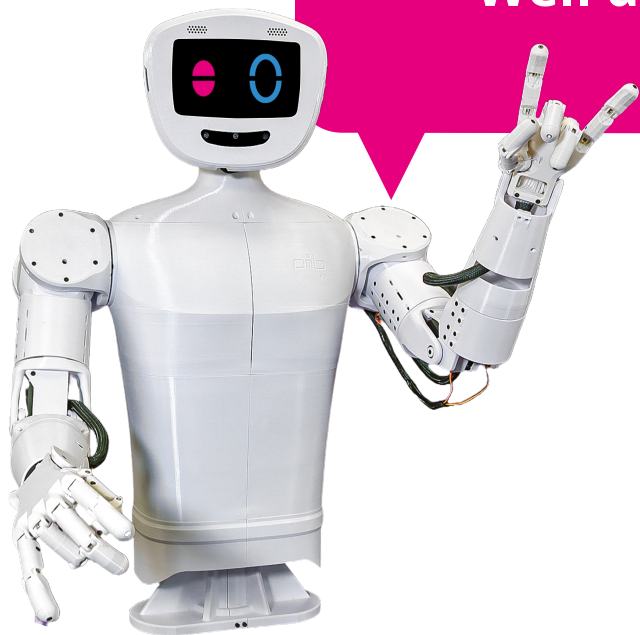
DBHub.io

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.