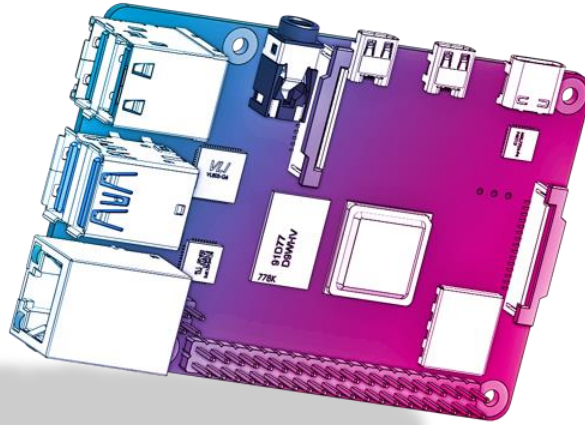




## How to build your robot

[www.pib.rocks/build](http://www.pib.rocks/build)

instructions for:  
**START UP**  
v2025



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

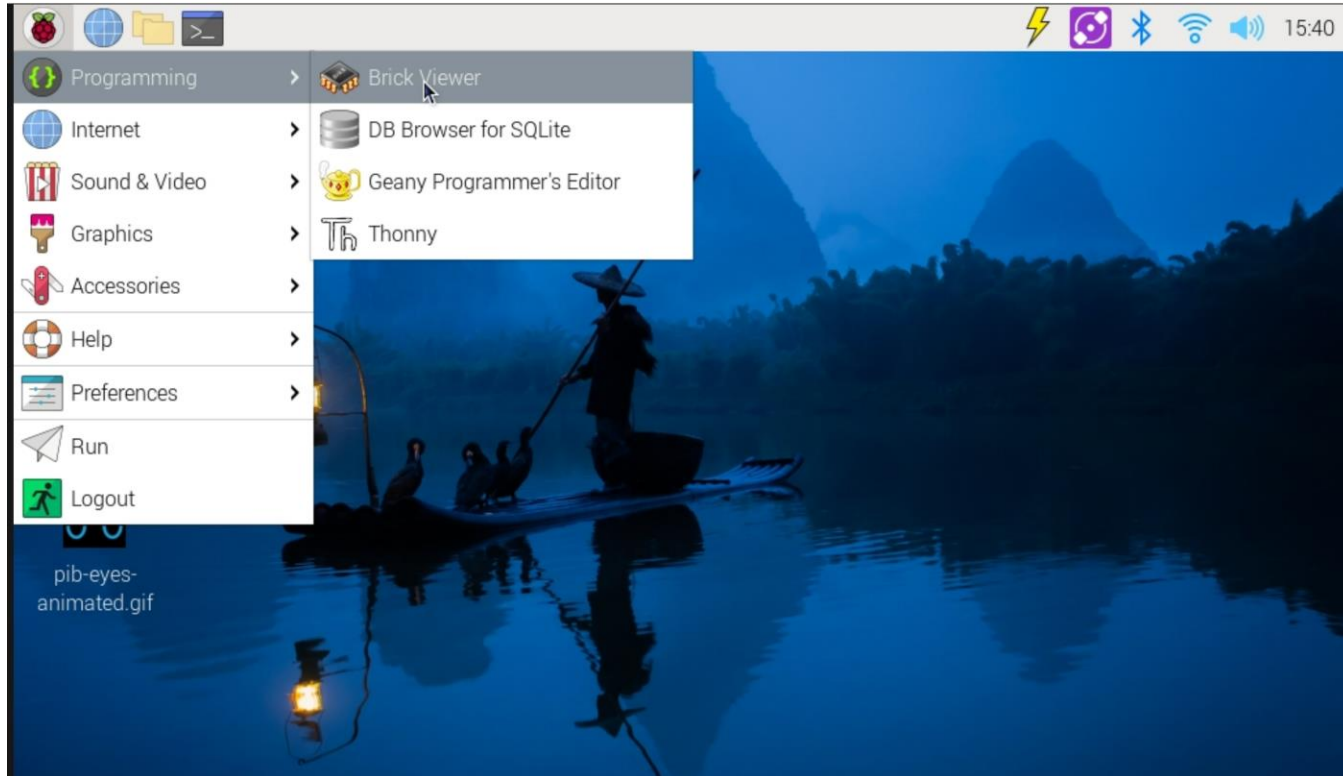
We have categorized each step according to its **difficulty** - from **1-5** (1 being the easiest, 5 the hardest)



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

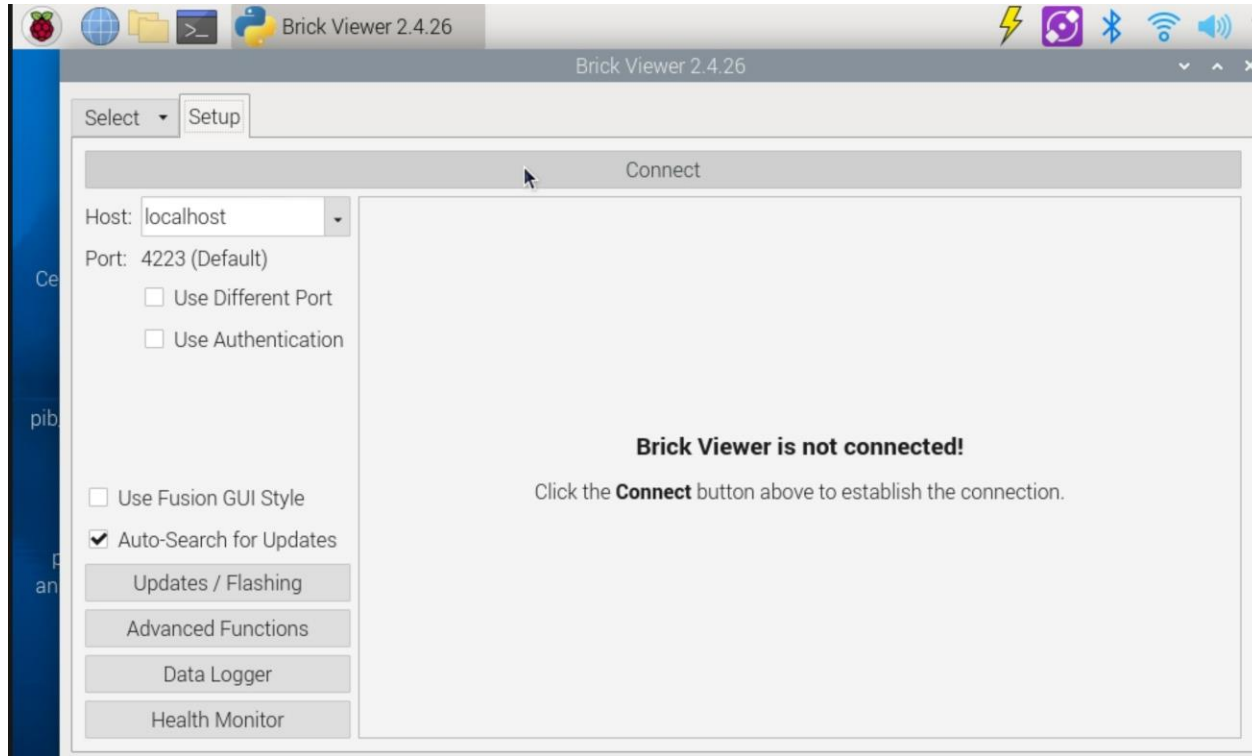
## Step 1

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



## Step 2a

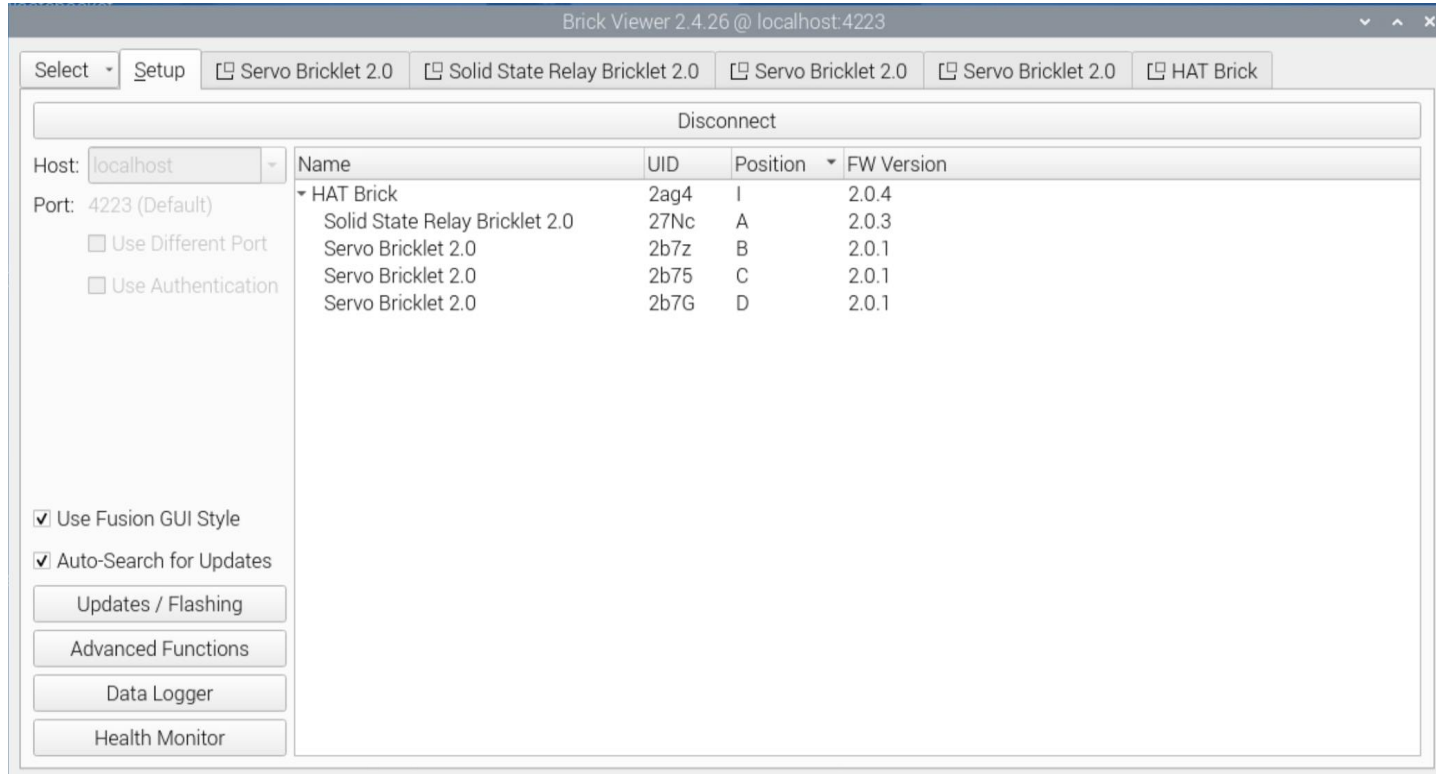
Click on connect



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

## note

- I. relay bricklet is for controlling the power supply
- II. servo bricklets are for controlling the motors








## Step 2b



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

Brick Viewer 2.4.26 @ localhost:4223

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

Disconnect

Host: localhost Port: 4223 (Default)

☐ Use Different Port ☐ Use Authentication

☒ Use Fusion GUI Style ☒ Auto-Search for Updates

Updates / Flashing

Advanced Functions

Data Logger

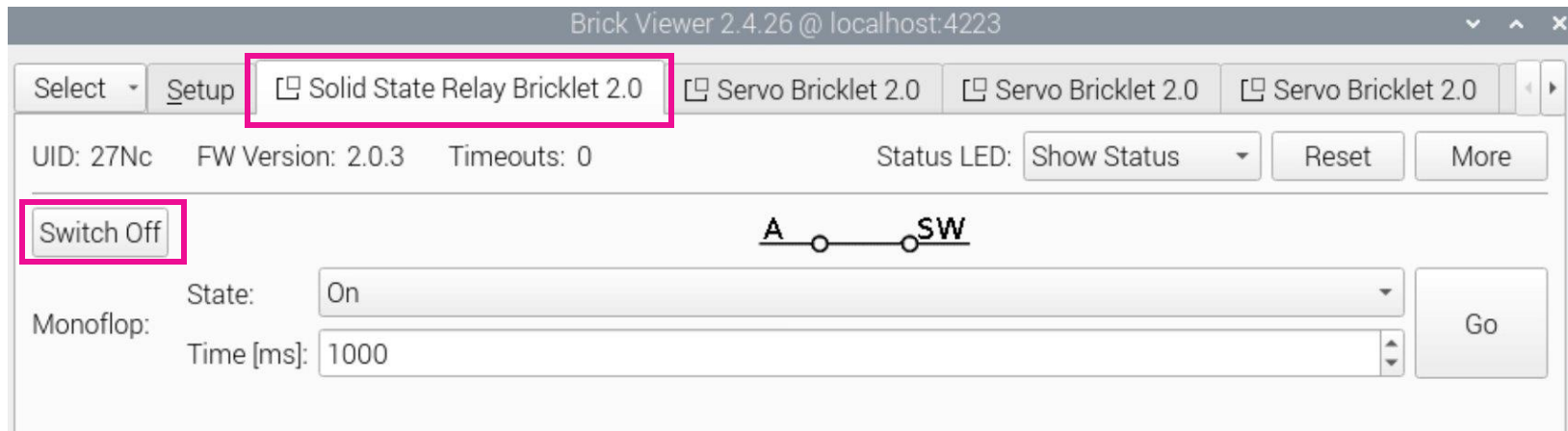
Health Monitor

| Name                           | UID  | Position            | FW Version |
|--------------------------------|------|---------------------|------------|
| ▼ HAT Brick                    | 2a94 | I                   | 2.0.4      |
| Solid State Relay Bricklet 2.0 | 27Nc | A <b>Bricklet 1</b> | 2.0.3      |
| Servo Bricklet 2.0             | 2b7z | B <b>Bricklet 2</b> | 2.0.1      |
| Servo Bricklet 2.0             | 2b75 | C <b>Bricklet 3</b> | 2.0.1      |
| Servo Bricklet 2.0             | 2b7G | D                   | 2.0.1      |

### Step 3



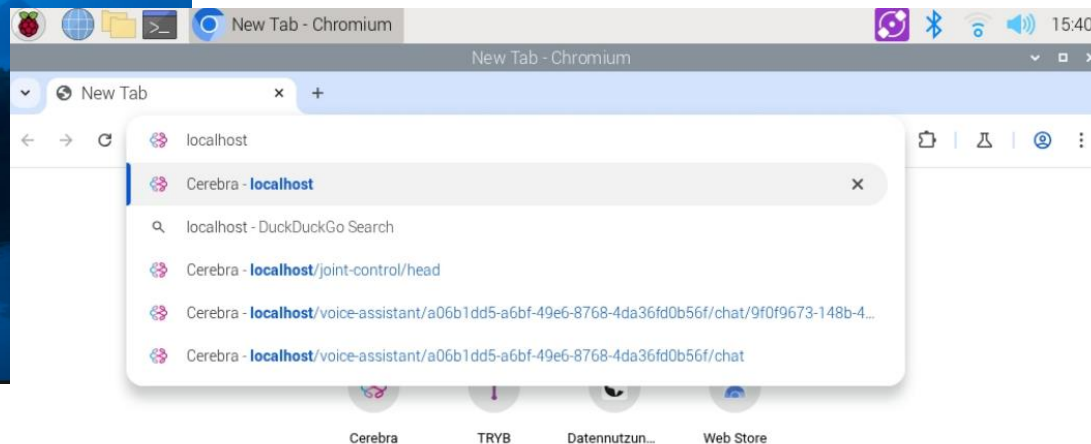
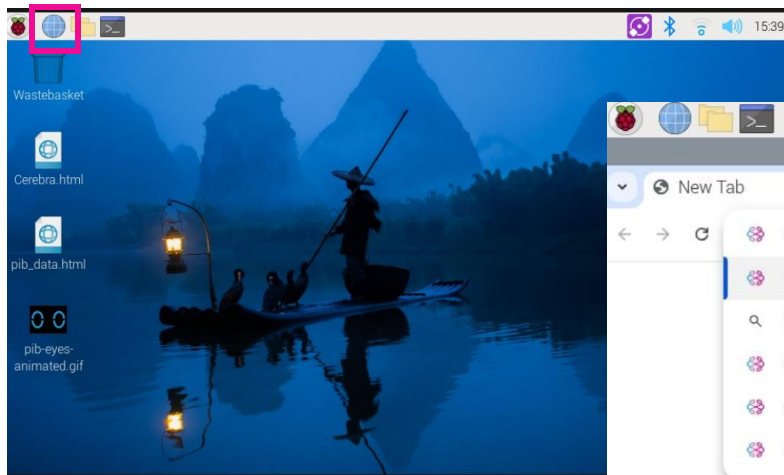
To turn on and off the power for motors click on the shown button in solid state relay bricklet tab



## Step 4a



Open a new browser window and navigate to localhost

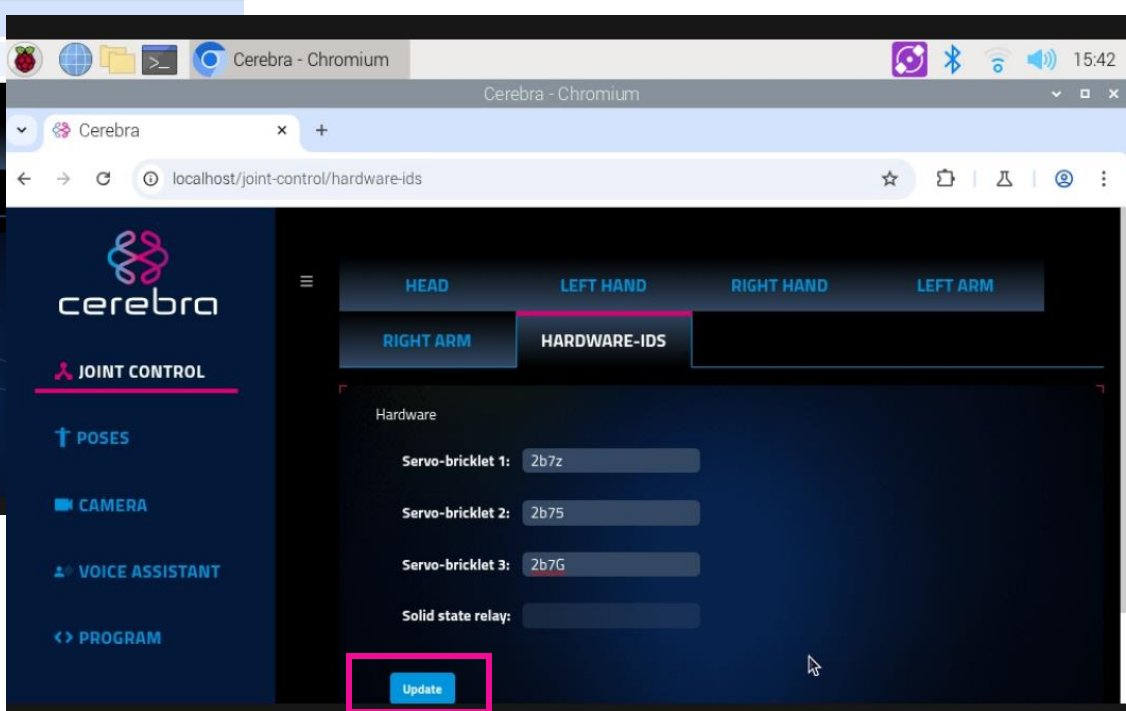
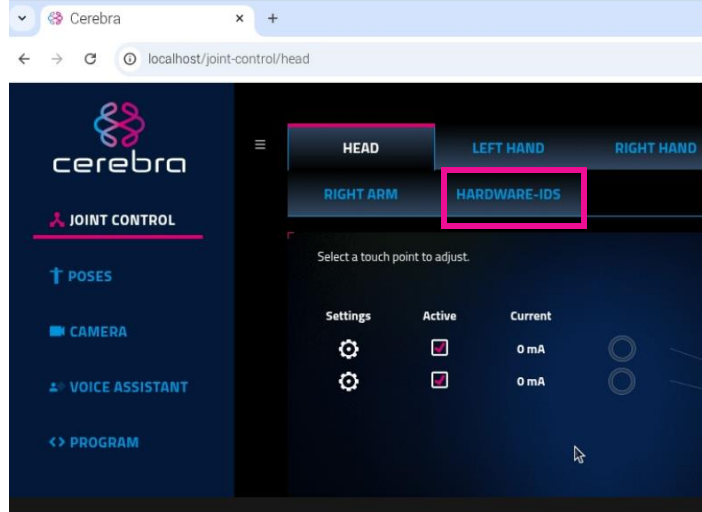
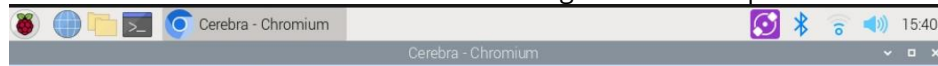




## Step 4b



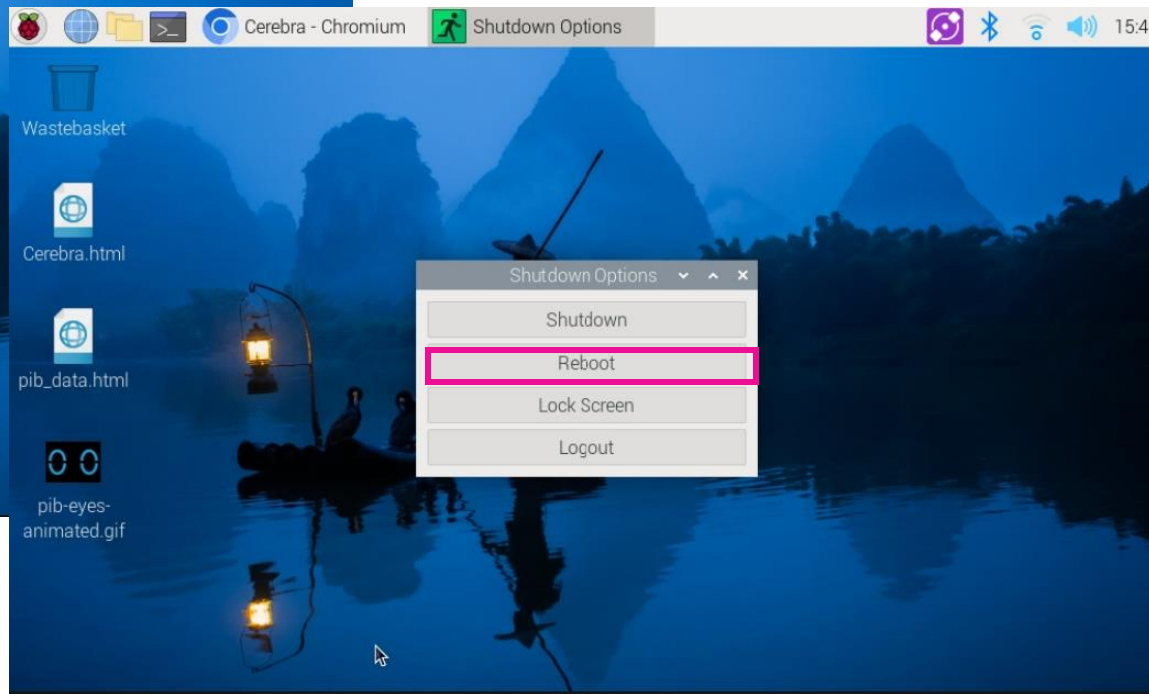
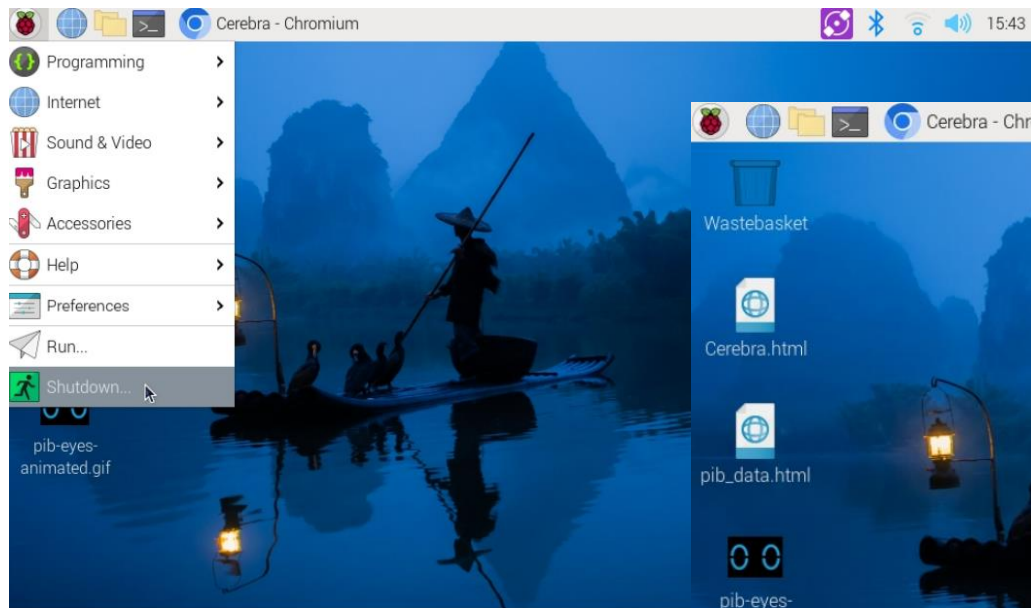
Click on bricklet UUIDs and enter the UUIDs we gathered in step 2b and click on update



## Step 4c

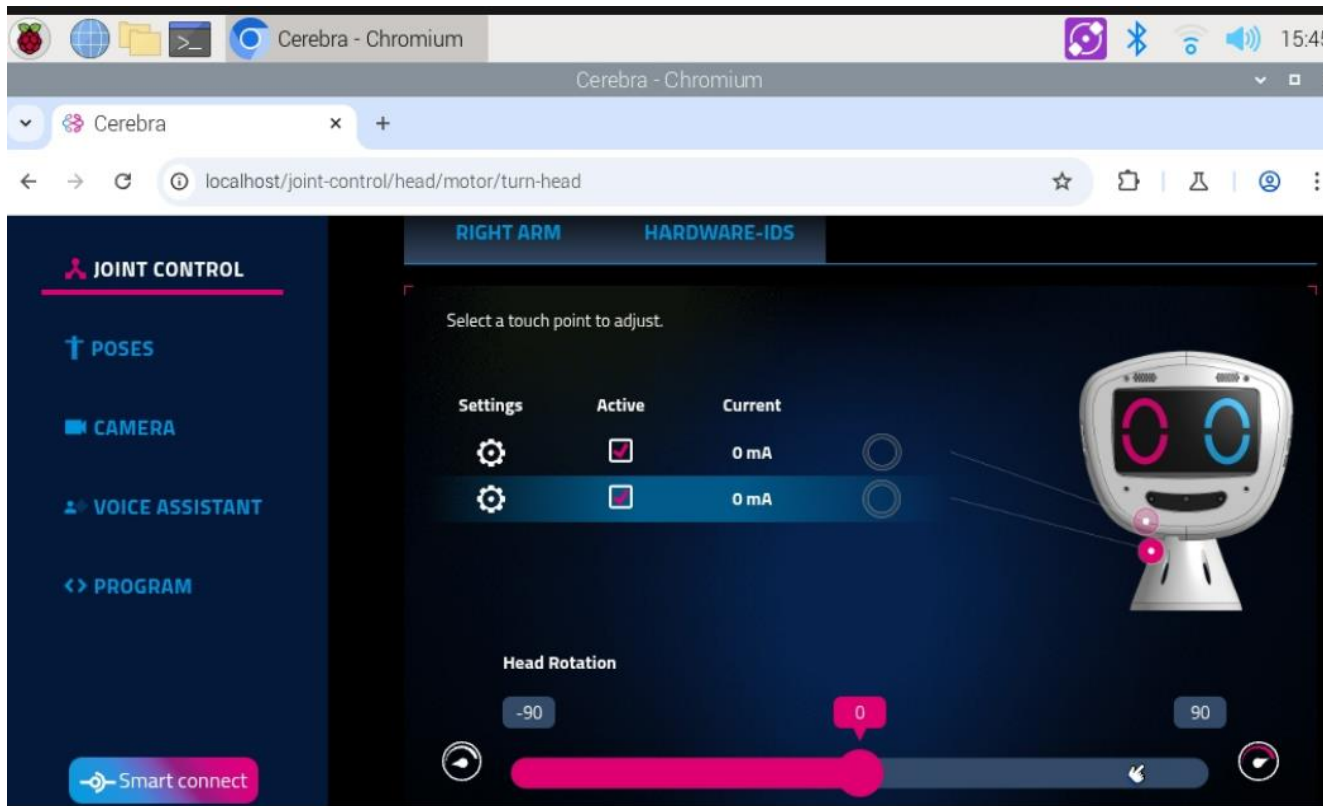


### Restart pib



## Feature 1

Click on joint control and select any joint you want to move and just move the slider



## Note



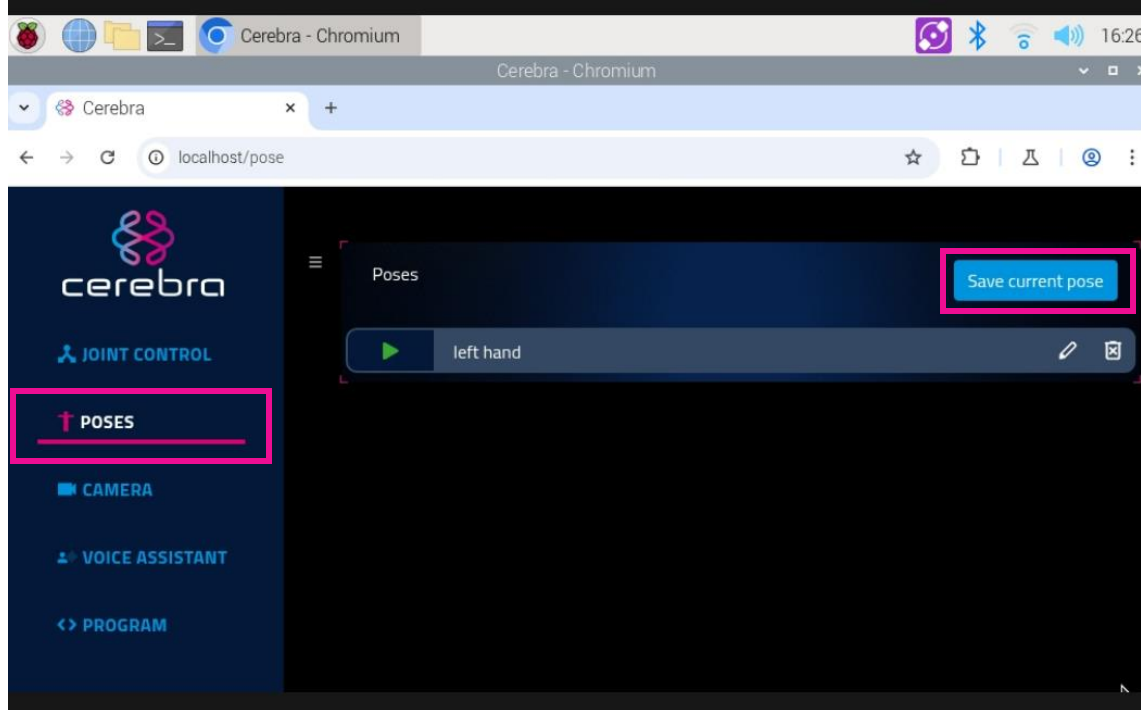
If a finger moves in the opposite direction to others, click on the finger, click on settings icon, click on extended values and click invert

The screenshots illustrate the following steps:

- Main Menu:** The 'RIGHT HAND' tab is selected in the top navigation bar. In the left sidebar, the 'JOINT CONTROL' section is expanded, and the settings icon (a gear) is highlighted with a red box.
- MOTOR SETTINGS Dialog:** The 'MOTOR SETTINGS' dialog is open. The 'EXTENDED VALUES' tab is selected and highlighted with a red box.
- Slider Adjustment:** The 'Degree (°/100)' slider for a specific joint is shown. The value is currently at -90°.
- Invert Motor:** The 'Invert motor' checkbox is checked, highlighted with a red box.

## Feature 2

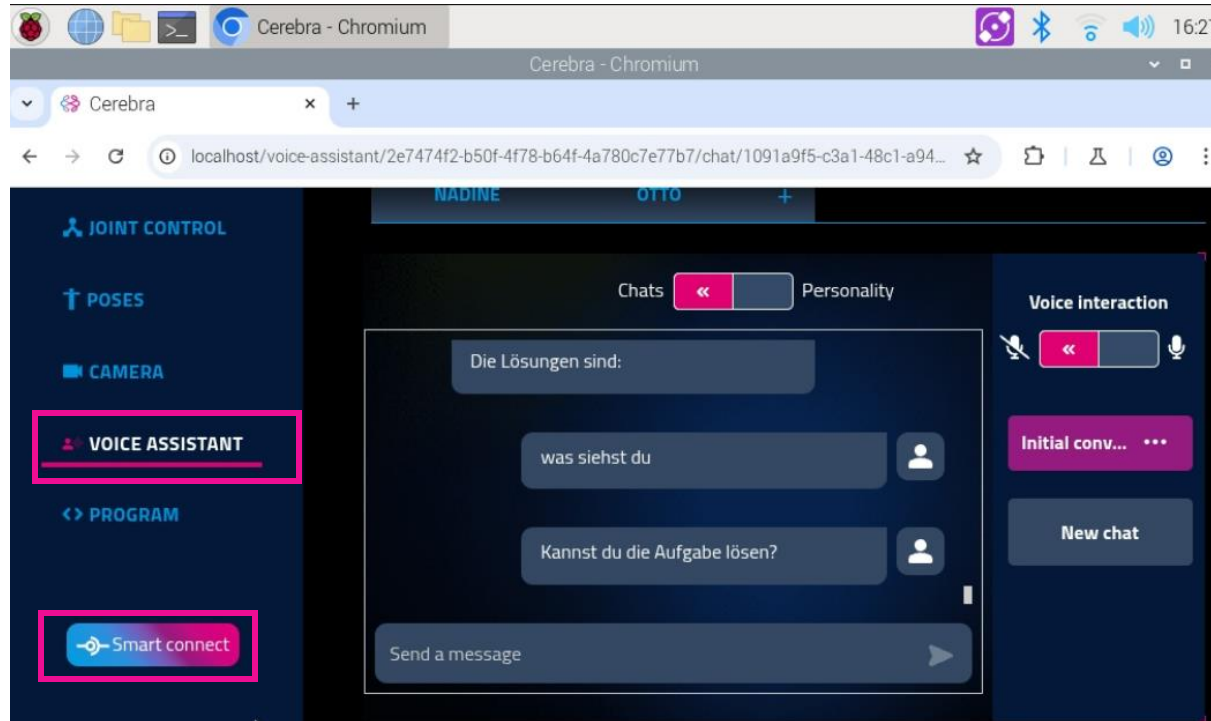
Move the joints with joint control to a configuration you want to save, then navigat to poses and create new pose. Now every time you click on this pose, pib will go to the saved configuration



## Feature 3



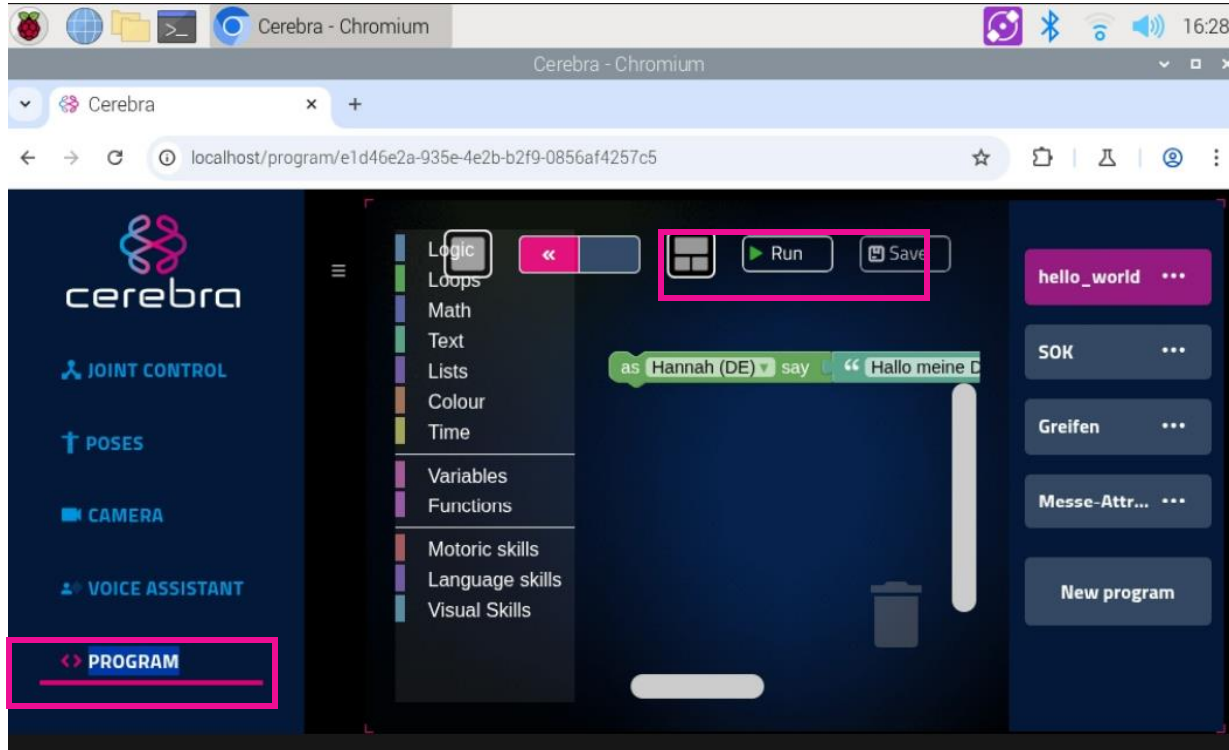
Click on smart connect API, get in touch with pib team at [team@pib.rocks](mailto:team@pib.rocks) to provide you with a token, enter this token, a new password and start talking with pib



## Feature 4

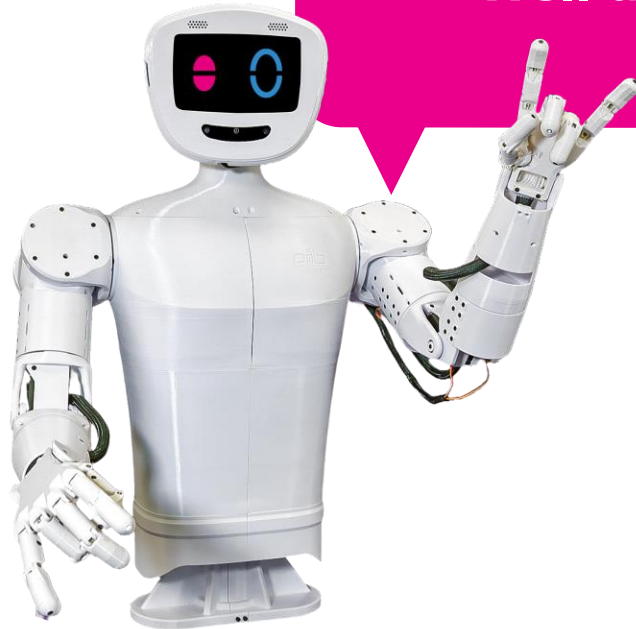


Click on block programming to create a script with basic blocks, then click run to start it



## Congratulations

You did a great job, you have started 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.