

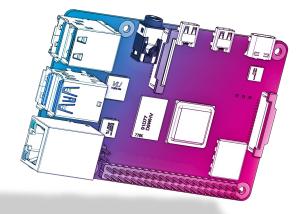
# How to build your robot

www.pib.rocks/build

assembly instructions for:

# PIB'S SOFTWARE ON RASPBERRY PI

v2024



# PRINT BUILD DEVELOP YOUR OWN ROBOT



#### **Software installation**

For pib to work, it is necessary to install pib.software on your Raspberry Pi.

#### This tutorial consists of 3 main steps:

- 1. Downloading and installing Raspberry pi OS on a Raspberry Pi
- 2. Setting up Raspberry pi OS
- 3. Installing pib.software

#### To follow this tutorial you will need:

- A device that can read a micro SD card (You may need an adapter for this to work)
- The (USB-C) power supply of the Raspberry Pi
- A keyboard and mouse
- A display and a matching micro HDMI adapter

(For example: to connect the Raspberry Pi to a HDMI display, you need a micro HMDI to HMDI adapter)

#### Step 1a

Put the **micro SD card into a device** that can read a SD card (a laptop or PC).

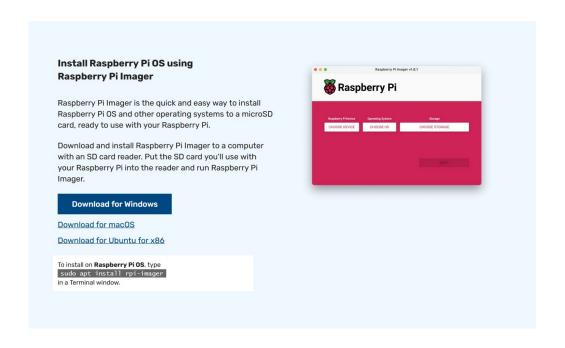
You may need an adapter for this to work.



A device that can read a micro SD card

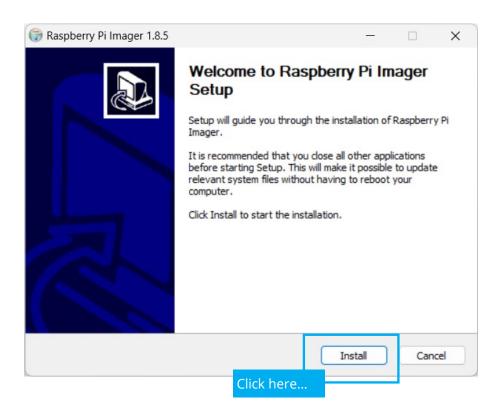
#### Step 1b

**Download** Raspberry Pi imager from <a href="https://www.raspberrypi.com/software">https://www.raspberrypi.com/software</a>



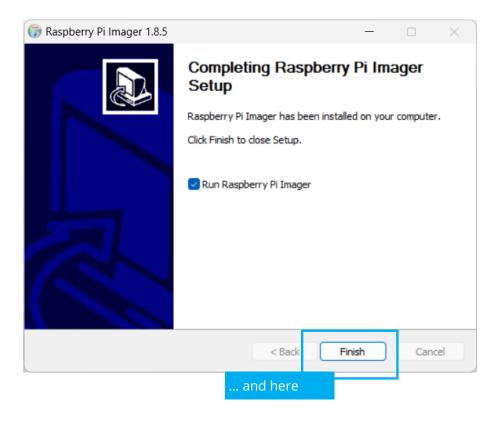
#### Step 1c

**Install** Raspberry Pi imager.



#### Step 1d

After installation click on "**Finish**" and launch the application.



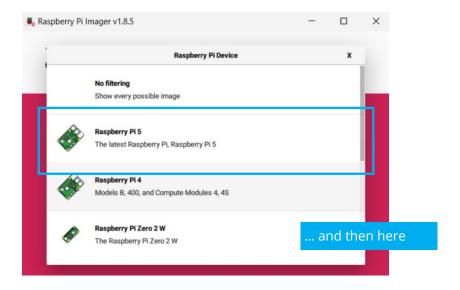


#### Step 1e

Lauch imager and click on "Choose Device".

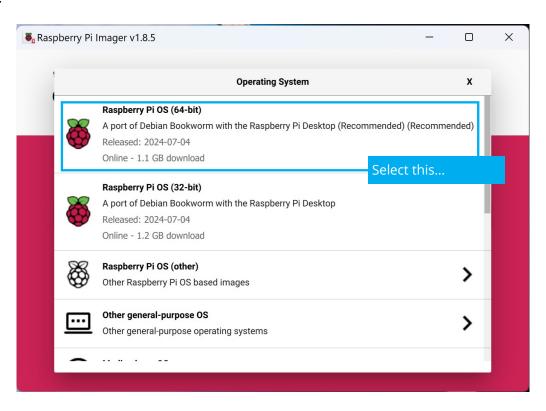
Then click on "Raspberry Pi 5".





#### Step 1f

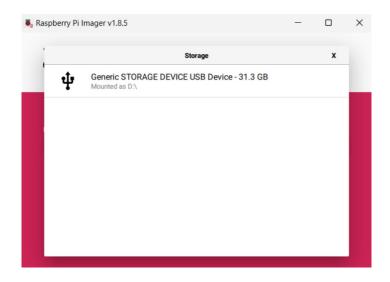
Select "Raspberry Pi OS".



#### Step 1h

Choose your storage device – make sure to select the micro SD card.

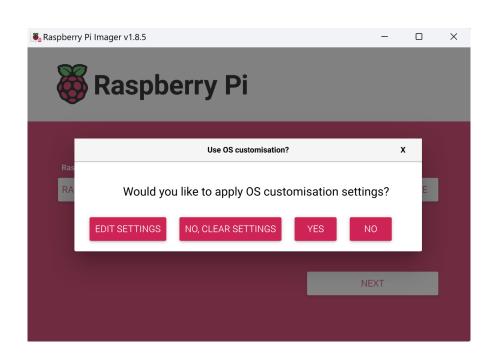
Please note: all existing data on a pre-used card will be erased.

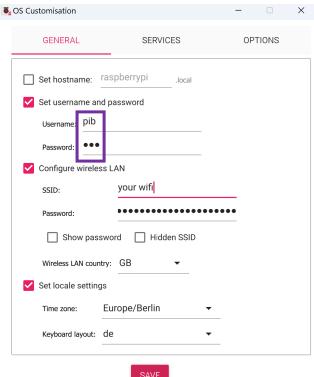




#### Step 1i

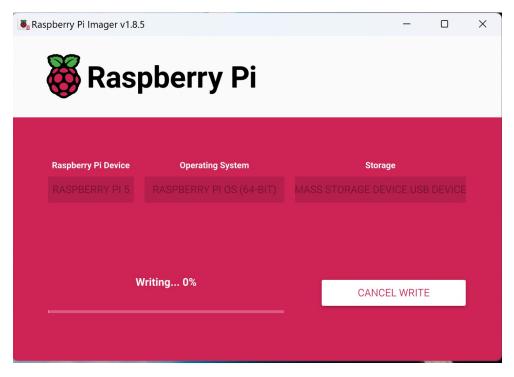
Select "edit settings", add wifi SSID and password, use "pib" for both username and password





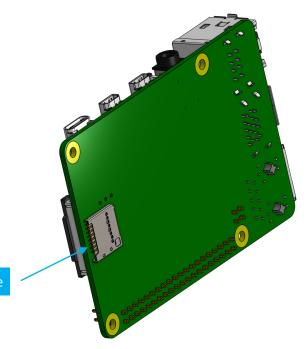
#### Step 1j

Click on "Write" to start installing Raspberry pi OS on the storage medium and wait until the process is finished. Then click on "Continue" to end Step 1.



### Step 2a

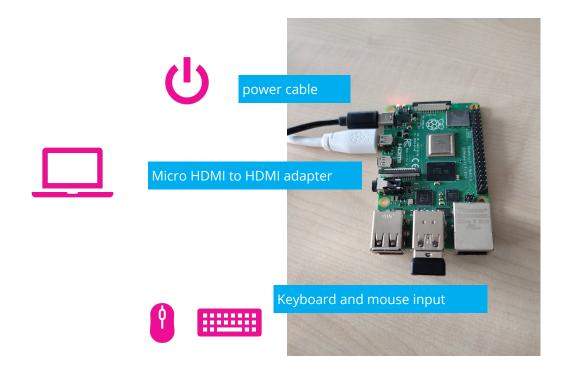
Remove the micro SD card from laptop/PC and insert it to the Raspberry Pi.



Insert SD-card here

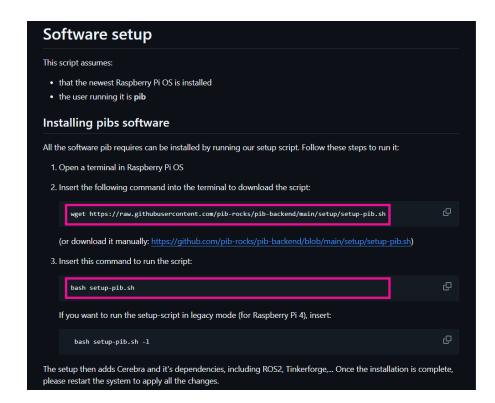
#### Step 2b

Connect the Raspberry Pi to your power supply, a HDMI capable screen/display and a keyboard and mouse for the next steps. After connecting the raspberry pi to the display and power supply, it should show the Ubuntu Raspberry pi OS screen.



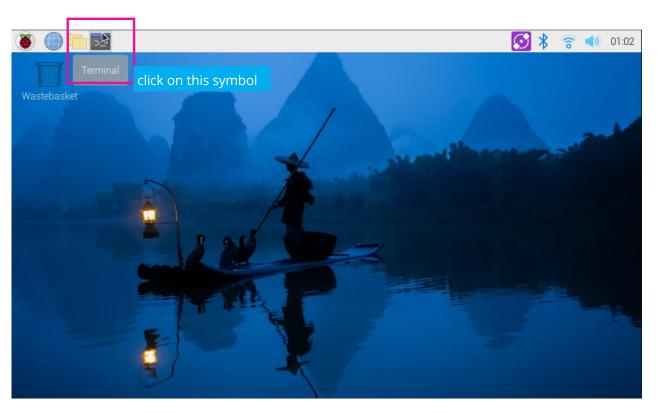
#### Step 3a

Open firefox and navigate to the pib.software setup page on Github using this link: <a href="https://github.com/pib-rocks/pib-backend">https://github.com/pib-rocks/pib-backend</a> You will need these 2 commands to continue the pib.software setup.



# Step 3b

At first, launch the terminal.



#### Step 3c

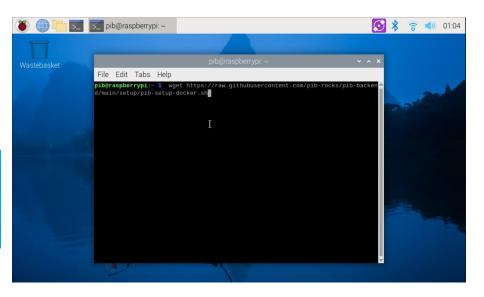
The first command will download the setup-script from our github website.

- Copy the command from github (wget https://raw.githubusercontent.com/pib-rocks/pib-backend/main/setup/setup-pib.sh)
- · Paste it into the terminal
- Press enter to execute the command

Info: If the download isn't working you can also download the file manually via github

... NOTE: you **cannot** use "CTRL + V" to paste it into the terminal.

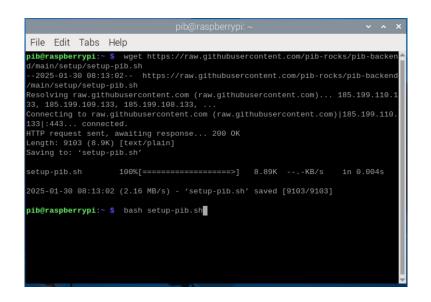
Instead use "CTRL + "SHIFT" + V" or right-click into the terminal and select "paste".

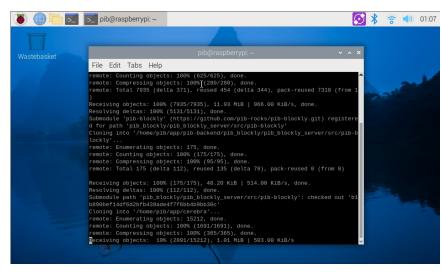


#### Step 3d

The second command starts the setup script. Therefore, enter the command in the terminal "bash setup-pib.sh".

The setup process will take quite some time, depending on your internet connection (upwards of 40 minutes).





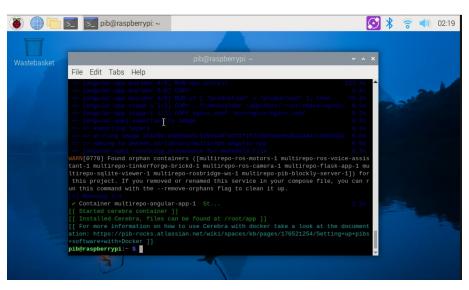
#### Congratulations

You did a great job, the pib's software is now installed on your Raspberry Pi.

Please **restart** the system to apply changes.

Then, you can remove your Raspberry from all devices. The SD card should stay inside your Raspberry.







## 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.



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