

[how to download arduino on raspberry pi](#)

To install **Arduino IDE** on your Raspberry Pi, follow one of these methods:

Method 1: Install via APT (Easiest)

This installs the version available in the Raspberry Pi OS repository.

1. Update your system

```
bash
sudo apt update && sudo apt upgrade -y
```

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2. Install Arduino IDE

```
bash
sudo apt install -y arduino
```

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3. Launch Arduino IDE

```
bash
arduino
```

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⚠ **Note:** This version may be outdated. If you need the **latest version**, use Method 2.

Method 2: Install Latest Arduino IDE from Official Website

If you need the **latest version**, download it from Arduino's official website.

1. Download the latest Arduino IDE for Linux ARM (32-bit or 64-bit)

- Visit: [Arduino Downloads](#)
- Look for "Linux ARM 32 bits" (for Raspberry Pi OS 32-bit) or "Linux ARM 64 bits" (for 64-bit OS).
- Use `wget` to download it directly:

```
bash
wget https://downloads.arduino.cc/arduino-ide_latest_Linux_ARMv7.tar.xz
```

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2. Extract the downloaded file

```
bash
tar -xvf arduino-ide_latest_Linux_ARMv7.tar.xz & cd arduino-ide_*
```

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3. Run the installation script

```
bash
sudo ./install.sh
```

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4. Launch Arduino IDE

bash

arduino-ide



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Method 3: Install via Snap (For Newer Raspberry Pi OS)

1. Install Snap (if not installed)

bash

sudo apt install -y snapd



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2. Install Arduino IDE

bash

sudo snap install arduino



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3. Launch Arduino IDE

bash

arduino



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Final Steps

- If you're using an **Arduino board**, you may need to **add your user to the dialout group** to access the USB serial port:

bash

sudo usermod -aG dialout \$USER



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Then **reboot** your Raspberry Pi.

Now you should have **Arduino IDE installed and ready to use!** 🚀 Let me know if you need help!

what arduino do i download for raspberry pi

When downloading **Arduino IDE** for your Raspberry Pi, the version you need depends on your Raspberry Pi's architecture. Here's how to choose the right one:

1. Check Your Raspberry Pi's Architecture

Run this command in the terminal:

bash

uname -m



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- **armv7l** → Use "Linux ARM 32 bits" (for Raspberry Pi OS 32-bit)
- **aarch64** → Use "Linux ARM 64 bits" (for Raspberry Pi OS 64-bit)

2. Download the Correct Version

Go to the [Arduino official download page](#) and select:

- For 32-bit Raspberry Pi OS:

```
bash
```

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```
wget https://downloads.arduino.cc/arduino-ide_latest_Linux_ARMv7.tar.xz
```

- For 64-bit Raspberry Pi OS:

```
bash
```

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```
wget https://downloads.arduino.cc/arduino-ide_latest_Linux_ARM64.tar.xz
```

3. Install Arduino IDE

1. Extract the downloaded file

```
bash
```

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```
tar -xvf arduino-ide_latest_Linux_ARM*.tar.xz cd arduino-ide_*
```

2. Run the installation script

```
bash
```

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```
sudo ./install.sh
```

3. Launch Arduino IDE

```
bash
```

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```
arduino-ide
```

Now, Arduino IDE should be running on your Raspberry Pi! 🚀 Let me know if you need help.