

Meritus AI

SCRATCH4PHIRO

INSTALLATION GUIDE



Installation Procedure of Scratch4Phiro for Mac OS

Welcome to the world of **Scratch4Phiro** , where you can bring your ideas to life and make the Phiro robot do amazing things!



This guide will help you install and setup **Scratch4Phiro** on a Mac OS. Follow these steps, and you'll be ready to create your very first program in no time. Let's dive into the fun of coding and robotics !

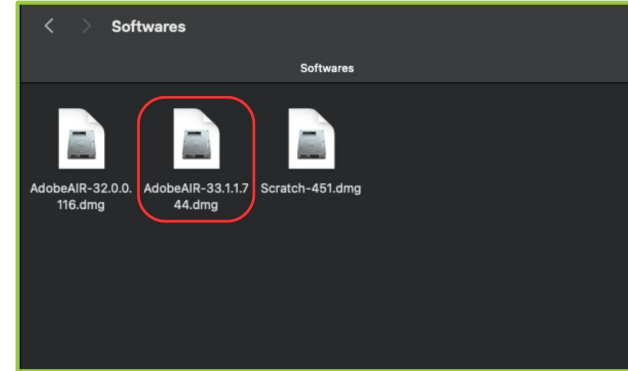
This installation procedure is divided into two stages:

1. **Installation of Scratch 2.0 Offline Editor with Adobe AIR**
2. **How to connect and use PHIRO using Scratch4Phiro software**

Installation of Scratch 2.0 Offline Editor with Adobe AIR

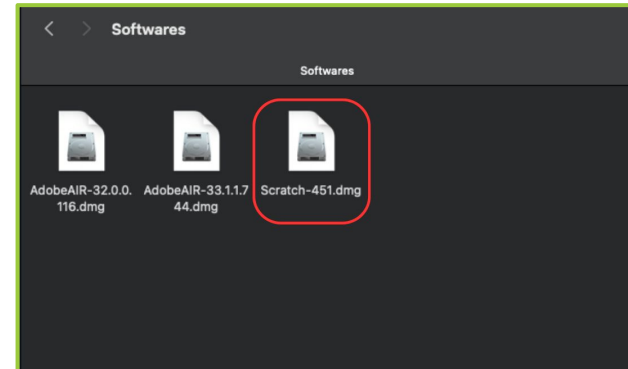
Step 1 - Install Adobe AIR

1. Install **Adobe AIR version 33.1.1.744.dmg** file provided in the **Scratch4PhiroSoftwares** folder.
2. You can **download the software folder from** [here](#)



Step 2 - Install Scratch 2.0 Offline Editor

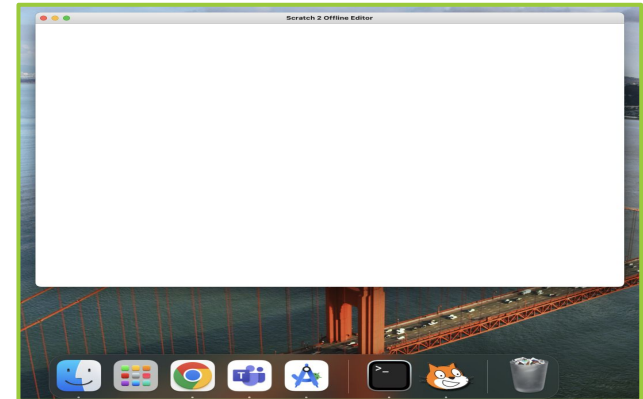
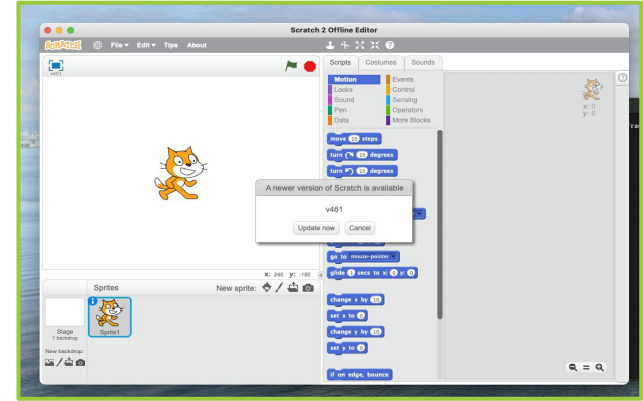
1. After successfully installing **Adobe AIR on macOS**, click on the **Scratch-451.dmg** file provided in the **Scratch4PhiroSoftwares** folder.
2. Follow the on-screen instructions to install Scratch 2.0.



Step 3 - Open Scratch 2.0

1. Open **Scratch2.app** from **Spotlight Search**.
2. Click on the **search icon** on macOS and search for **Scratch2.app**.
3. If the "Scratch app Not Installed" error appears:
 - a. Go to **Settings > Privacy & Security**.
 - b. Scroll down and find the **Allow Applications** section.
 - c. Click on **Scratch app** and allow the installation to proceed.

Important: If the software opens with a blank space, follow the next steps. Otherwise, proceed to Step 1 of the Open Phiro app section. (Page no 8)



Bypassing Adobe AIR to Open Scratch 2.0

Uninstalling Adobe AIR 33.1.1.744

To remove Adobe AIR 33.1.1.744 from macOS:

1. Open **Applications**, locate **Adobe AIR**, right-click and select **Move to Trash**.
2. Empty the Trash.
3. Open **Terminal** and run the following commands to remove all related files:

```
sudo rm -rf /Library/Frameworks/Adobe\ AIR.framework
```

```
sudo rm -rf ~/Library/Application\ Support/Adobe/AIR
```

```
sudo rm -rf ~/Library/Caches/Adobe/AIR
```

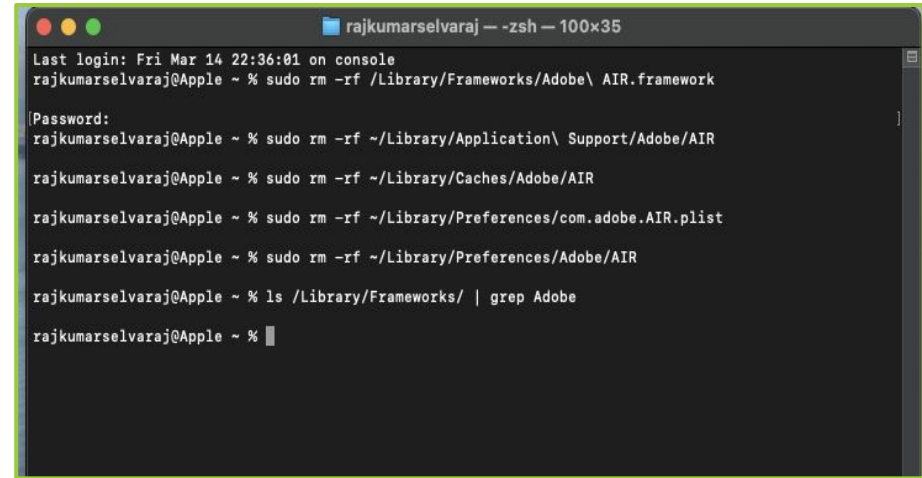
```
sudo rm -rf ~/Library/Preferences/com.adobe.AIR.plist
```

```
sudo rm -rf ~/Library/Preferences/Adobe/AIR
```

4. Verify uninstallation by running:

```
ls /Library/Frameworks/ | grep Adobe
```

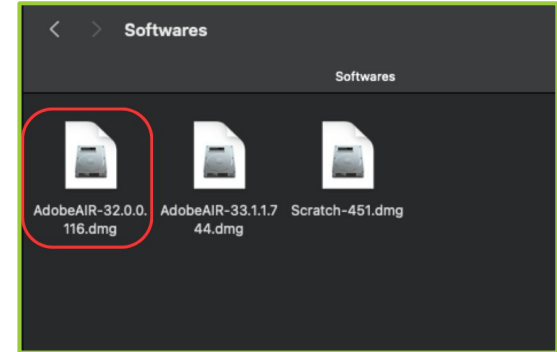
If no output appears, Adobe AIR has been successfully removed.



```
rajkumarselvaraj — zsh — 100x35
Last login: Fri Mar 14 22:36:01 on console
rajkumarselvaraj@Apple ~ % sudo rm -rf /Library/Frameworks/Adobe\ AIR.framework
[Password:
rajkumarselvaraj@Apple ~ % sudo rm -rf ~/Library/Application\ Support/Adobe/AIR
rajkumarselvaraj@Apple ~ % sudo rm -rf ~/Library/Caches/Adobe/AIR
rajkumarselvaraj@Apple ~ % sudo rm -rf ~/Library/Preferences/com.adobe.AIR.plist
rajkumarselvaraj@Apple ~ % sudo rm -rf ~/Library/Preferences/Adobe/AIR
rajkumarselvaraj@Apple ~ % ls /Library/Frameworks/ | grep Adobe
rajkumarselvaraj@Apple ~ %
```

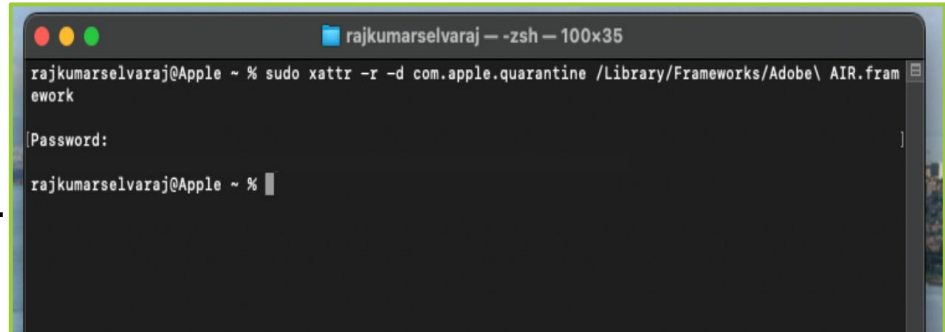
Step 4 - Install Adobe AIR 32.0.0

Install **Adobe AIR 32.0.0** version from the **Scratch4PhiroSoftwares** folder by clicking on the **.dmg** file.



Step 5 - Open Scratch 2.0 Again

- Try opening **Scratch2.app** from **Spotlight Search**.
- If it does not open, use **Terminal** and execute:

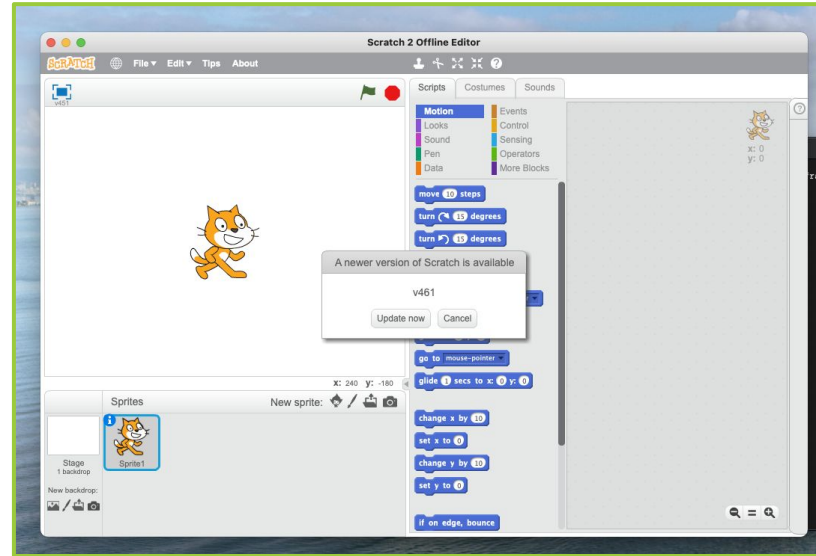


```
rajkumarselvaraj - zsh - 100x35
rajkumarselvaraj@Apple ~ % sudo xattr -r -d com.apple.quarantine /Library/Frameworks/Adobe\ AIR.framework
[Password: ]
rajkumarselvaraj@Apple ~ %
```

```
sudo xattr -r -d com.apple.quarantine /Library/Frameworks/Adobe\ AIR.framework
```

Step 6 - Open Scratch 2.0

- Open **Scratch2.app** from **Spotlight Search**.
- When prompted, **do not press** the update button.



Bypassing the Adobe AIR process is now complete.

How to connect and use PHIRO using Scratch4Phiro software

Step 1: Enable Bluetooth Discovery

Go to **System Settings > Bluetooth**.

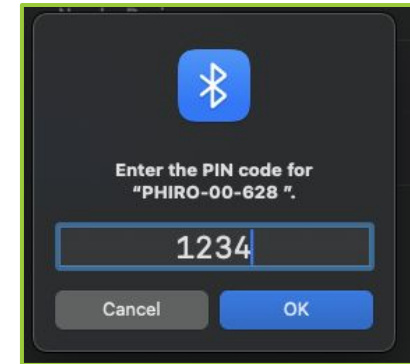
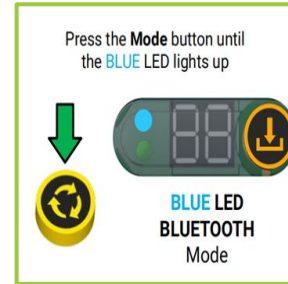
Step 2: Turn on Phiro

Power on the **Phiro robot** and switch it to **Bluetooth Mode**.

Step 3: Add Phiro as a Bluetooth Device

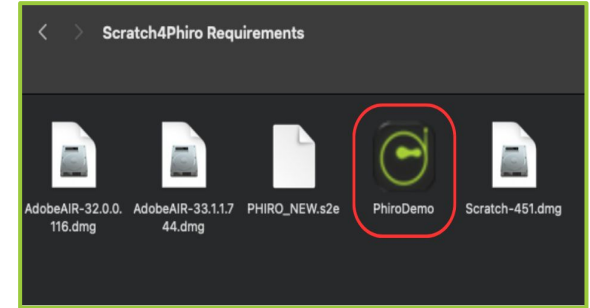
1. Open **System Settings > Bluetooth & Devices**.
2. Click **Add Device** and search for **Phiro's Bluetooth ID**

(found at the bottom of the Phiro bot).
3. Select the device and, when prompted, enter the **PIN 1234** to pair.



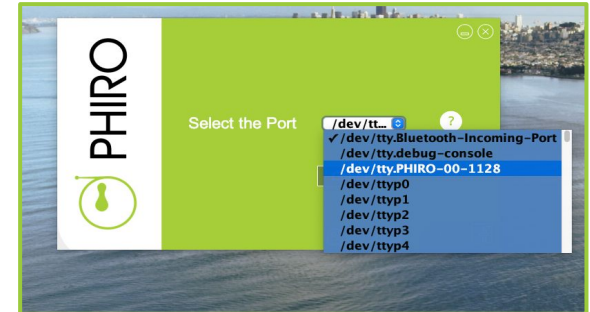
Step 4: Open the Phiro App

1. Open the **Phiro app** from the **Software Folder**.
2. Once the app is open, click the **blue button** to open the dropdown menu.
3. **If the "Phiro app Not Installed" error appears:**
 - a. Go to **Settings > Privacy & Security**.
 - b. Scroll down and find the **Allow Applications** section.
 - c. Click on **Phiro app** and allow the installation to proceed.



Step 5: Select the PHIRO Connection

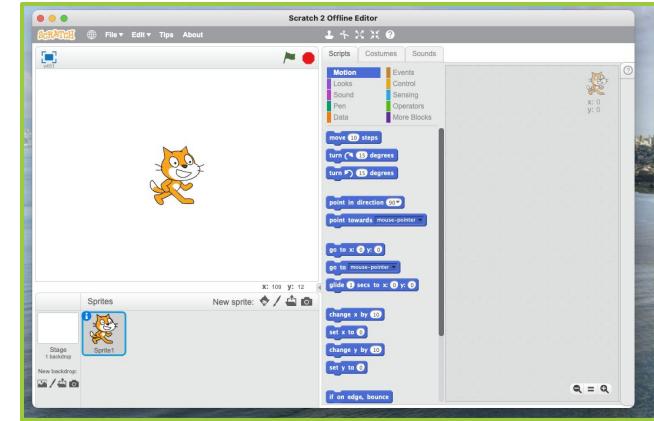
1. In the dropdown menu, select the value that starts with `/dev/tty.PHIRO`.
2. Ensure the green LED is turned on in the PHIRO device.



Step 6 : Open Scratch 2.0

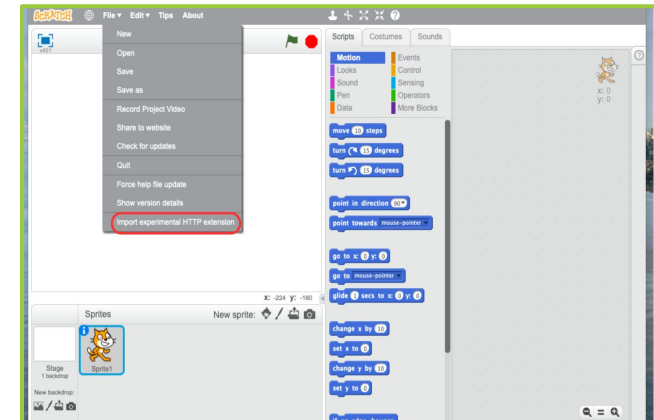
Now, Scratch 2.0 should open successfully.

Note : Ensure that Scratch 2.0 is opened before launching the Phiro application to avoid any connection issues.



Step 7 : Enable HTTP Extension

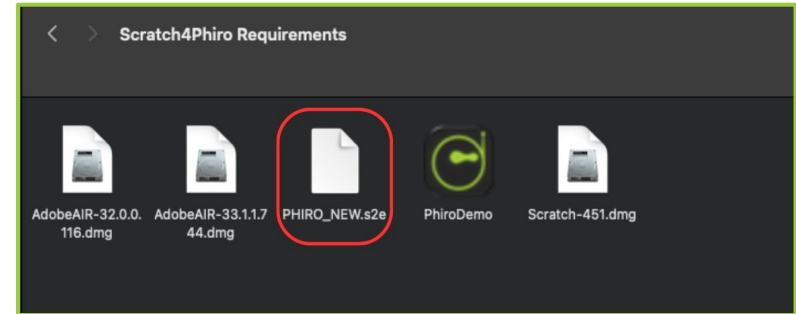
1. Press SHIFT KEY + FILE.
2. Click Import Experimental HTTP Extension.



Step 8 : Import PHIRO Blocks

1. Import the PHIRO_new.s2e file from the Scratch4Phirosoftwares folder.
2. The blocks will appear in the More Blocks section.

Now, you can control the Phiro device using the Scratch 2.0 offline editor.



Step 9 - Run your First Program

Ready to see your robot in action? Let's run a sample program:

1. Download a **Sample Program** from [here](#).
2. Open **Scratch4Phiro**.
3. Click **File > Open** , then select a sample program you downloaded.
4. Click the **Flag icon** to start the program.
5. Watch as Phiro follows your commands!

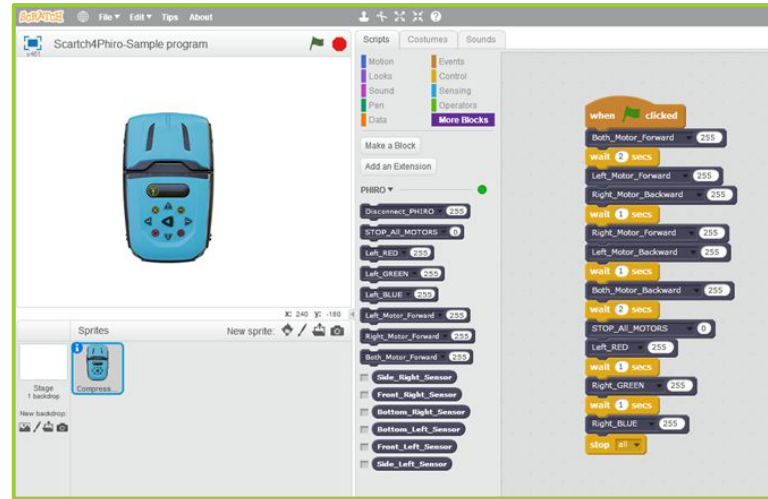


Image 8

Troubleshooting - Common Issues & Solutions

Issue	Solution	Page No
Scratch App Installation Problem	Follow Step 3 - Open Scratch 2.0	Page 3
Scratch App Not Installed Error	Follow Step 3 - Open Scratch 2.0	Page 3
Phiro App Not Installed Error	Follow Step 4 - Open the Phiro App	Page 8
Phiro Not Connecting via Bluetooth	Follow Step 3 - Add Phiro as a Bluetooth Device	Page 7
Scratch 2.0 Opens with a Blank Screen	Follow Step 5 - Open Scratch 2.0 Again	Page 6
Adobe AIR Installation Issues	Follow Step 4 - Install Adobe AIR 32.0.0	Page 5
Phiro Blocks Not Appearing in Scratch	Follow Step 8 - Import PHIRO Blocks	Page 10
Java Error	Download the Java OpenJDK version "17.0.7"	From here

Need help? email us at support@meritus.ai

THANK YOU

Scan the QR Codes below to explore more using Phiro



Phiro Video



Phiro with Scratch &
Pocket Code Video Playlist