

# Set Up Calliope mini

## Content

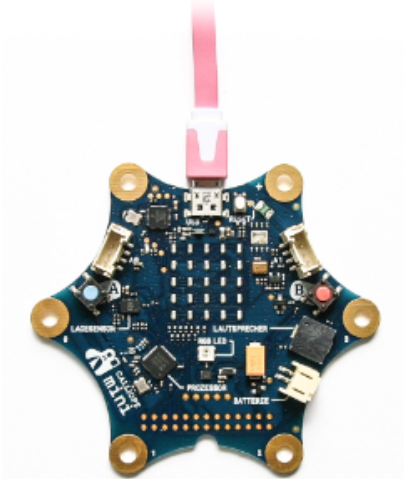
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## Connecting your Calliope mini

To connect the Calliope mini to your computer, simply connect it to your computer via a micro-USB cable.



The Calliope mini is now ready for use without any further precautions. Now get started creating your first program in the [Open Roberta Lab!](#)

If you're using Calli:bot, you'll be connecting it just like you would with a Calliope mini.

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## Connecting your Calliope mini with the Calliope mini App

You can program the Calliope mini not only with your computer, but also with the Calliope mini App. You can find it in both the [Google Play Store](#) and the [Apple App Store](#). To connect the Calliope mini, please follow the instructions for your operating system.

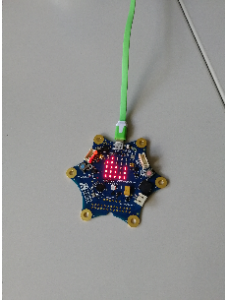
### Google Android

1. First you need to activate Bluetooth on your Calliope mini, to check if Bluetooth is activated you can do step 2. If nothing happens afterwards and the Calliope mini simply resets, you will need to transfer an empty program from the Open Roberta Lab to your Calliope mini by cable.



You can only do this with a computer and it is important that the program does not contain a »Messages« block as these two modules are mutually exclusive. Now you can continue with step 2.

- Now press the buttons »A«, »B« and »Reset« simultaneously for about 5 seconds. Then release the »Reset« button, but keep the »A« and »B« buttons pressed. After a few seconds your Calliope mini will show an image on the LED screen. If you are using the older version of Calliope mini (recognizable by the darker blue tone and the placement of the buttons »A« and »B«) you will first see the text »Pairing Mode«.



- This image is unique identifier of your Calliope minis.
- Now you can open the Calliope mini app and activate Bluetooth.



- Now press the »Connect to mini« button and select the Calliope mini with the same image as your own Calliope mini.



- You are now connected to your Calliope mini and can create and transfer a program by pressing »Create Code« and selecting »Open Roberta NEPO«.



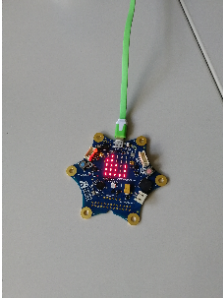
## Apple IOS

- First you need to activate Bluetooth on your Calliope mini, to check if Bluetooth is activated you can do step 2. If nothing happens afterwards and the Calliope mini simply resets, you will need to transfer an empty program from the Open Roberta Lab to your Calliope mini by cable.



- You can only do this with a computer and it is important that the program does not contain a »Messages« block as these two modules are mutually exclusive. Now you can continue with step 2.

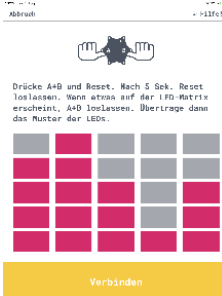
- Now press the buttons »A«, »B« and »Reset« simultaneously for about 5 seconds. Then release the »Reset« button, but keep the »A« and »B« buttons pressed. After a few seconds your Calliope mini will show an image on the LED screen. If you are using the older version of Calliope mini (recognizable by the darker blue tone and the placement of the buttons »A« and »B«) you will first see the text »Pairing Mode«.



- This image is unique identifier of your Calliope minis.
- Now you can open the Calliope mini app and activate Bluetooth.



- To connect your Calliope mini to your iPad or iPhone, first press the »Connect to mini« button and copy the unique identifier of your Calliope mini to your device.



- Your device will now search for your Calliope mini and establish a connection.



- You are now connected to your Calliope mini and can create and transfer a program by pressing »Create Code« and selecting »Open Roberta NEPO«.

## Installing and Using a Serial Monitor

If your Calliope mini is connected to a computer via USB, it can communicate with the computer via a so-called »serial interface«. The Calliope mini can send data to the computer via the USB cable. This happens every time you use the block »Show on Serial Monitor ...« in your program. At this moment your Calliope mini sends the data to your computer and you can read it. However, you will need a special program to do this. You can either use our »Open Roberta Connector« or simply an extension for your browser. Now we will explain how to install them:

### Installing Open Roberta Connector

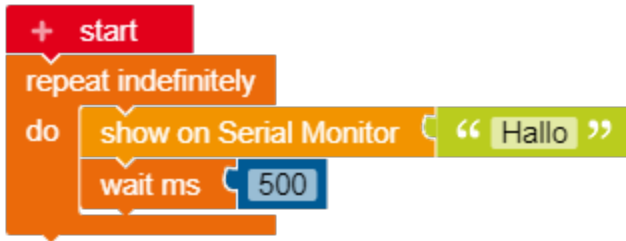
To view the output of your Calliope mini, you can also use the new program »Open Roberta Connector«. Instructions for installation and use can be found [here](#).

## Installing a browser plugin

There is a plugin for the browser »Chrome«, which also allows you to view the serial outputs of your Calliope mini. A link to this extension can be found [here](#).

## Using the Serial Monitor

If you have now chosen one of the options above and installed the program or the extension, you can already see the output of your Calliope mini. As an example, let's take a look at the following program:



When you transfer this program to your Calliope mini, it will send the word »hello« to your computer via the serial port twice a second. The output on your computer screen should look like this (we use the »Open Roberta Connector« here):

