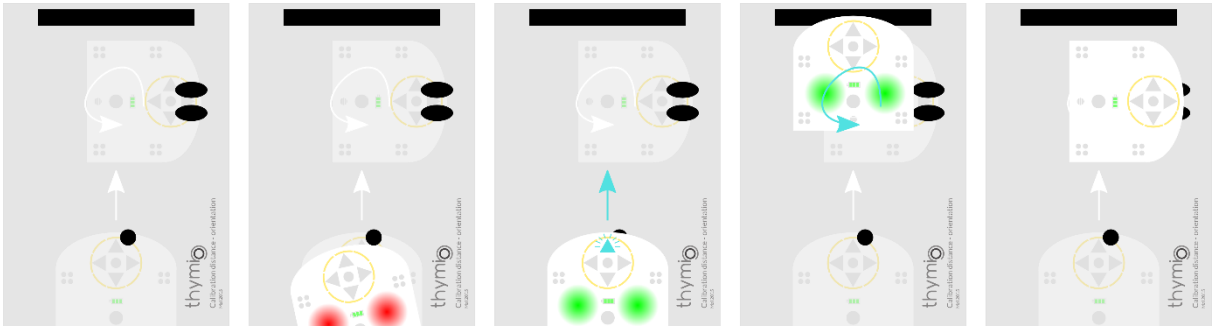
ORIENTATION AND DISTANCE CALIBRATION

USER GUIDE

Before beginning some activities, you may need to perform a calibration of the robots. Indeed, every motor has its own characteristics. They will all give different results. This can result in the failure of the activity.



In order to calibrate Thymio, you will need the « Thymio, Calibration distance – orientation » sheet, at the end of this file.

Put the program of your activity on the microSD card and the microSD card in Thymio (see the « Thymio programs and microSD card » file)

1. Press simultaneously on the left and right arrows of Thymio for 3 seconds. The robot will blink in red.
2. Put the robot on the sheet « Thymio, Calibration distance – orientation ». Place it carefully on the silhouette. If it's correctly placed, the robot will blink in green.
3. Pressing the forward arrow button, the robot will move up to the black line, then it will turn on itself. Eventually, it will stop on the top silhouette.
4. The calibration is over and stored on the microSD card of the robot. If the storage process went smoothly, you should have heard a "tut" sound.
5. If the robot did not follow this process (for example, it did not stop after having done ¾ of a turn), go back to point 2 and start again.

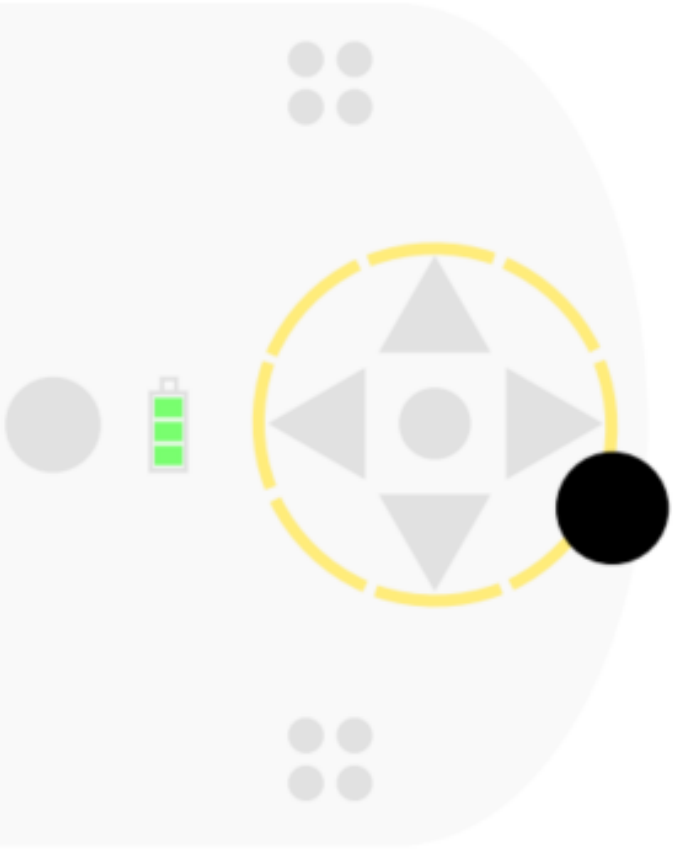
If you are using a microSD card

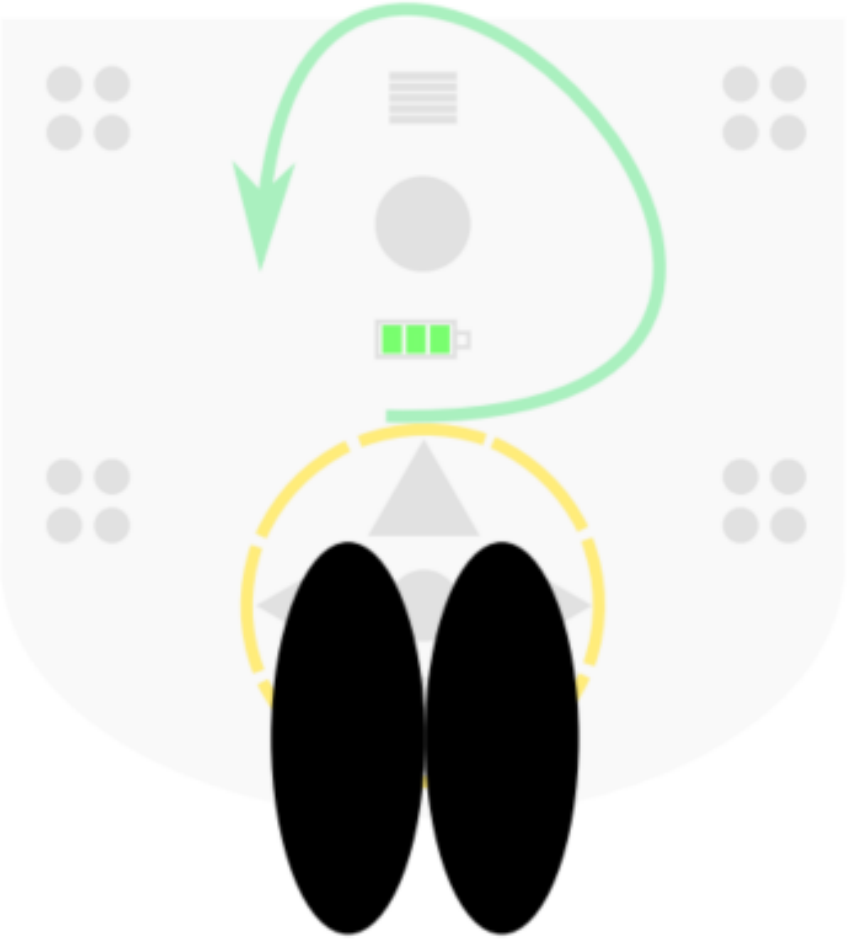
As long as the microSD card will stay in the robot, the calibration will stay. If you change the microSD card, you will have to start over the calibration process.

If you are not using a microSD card

The calibration stays effective as long as you let the Thymio robot ON. If you turn if OFF, you will have to start over the calibration process.

Translated from French by Mobsya association (www.mobsya.org), licenced under CC BY SA, *originally created by EPFL-MOBOTS (mobots.epfl.ch), source files on www.thool.ch.*





thymio

Calibration distance - orientation

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