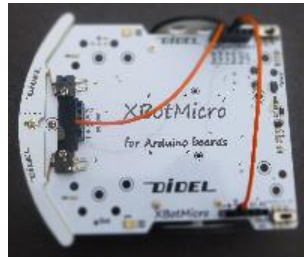


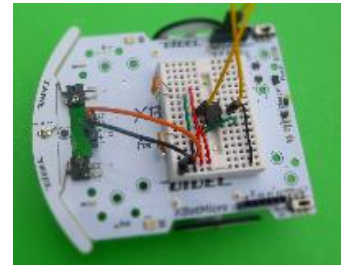


XBotMicro for your Arduino card – Diduibot

Xbot is a cost-effective robot base.
4 control signals for the fast low power motors.
2 signals from the whiskers
Built-in charger for the batteries.



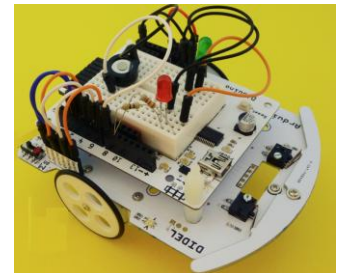
No need for a microcontroller.
Play with electronic components for simple behaviours: track the light, avoid obstacles



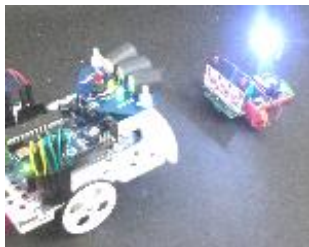
Add you Arduino board.
No need for a motor shield. Add 8 wires and program.
Avoid obstacles, understand PWM and PFM. Add sensor and communication shields



Use preferably a Diduino, the breadboard shield is included and you can learn and play with components, play music while the robot moves.



It's amazing to follow a light. Try photovore and photophobe behaviours with the **Suivi** module. The challenge is to have several robots following each other.



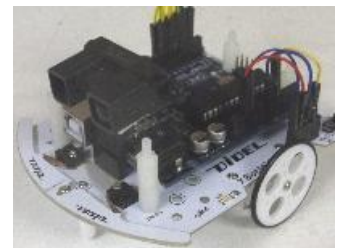
Follow a line on the ground with the **Piste** module. Understand control algorithms, sensor calibration, recovery procedures.



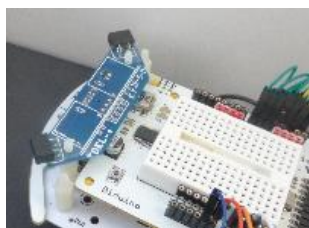
How far are obstacles? Ultrasonic is perfect in a large room, works from 5cm to 5 meters.



PSD sensors are better to navigate on a table and under-stand how to play all kind of tricks. Measures distances between 15 and 80 cm, 5 degree angular resolution.



Follow a wall not touching it? This is a job for infrared distance sensors.



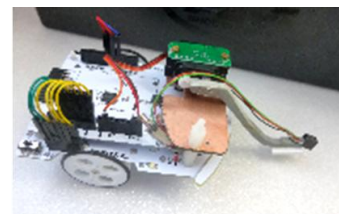
Combine sensor to get more information. Ultrasonic for searching the target, IR for short distances, whiskers when detection problems.



Add a display to get sensor values, or real time info while the robot is moving.



Add one or two small servos to pick objects or move sensors, even a miniature camera.



Control with you tablet? Learn how to handle BT signals



Add a camera? Put the camera of a RC toy on top of the XBot.

