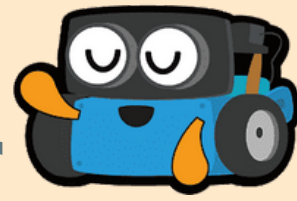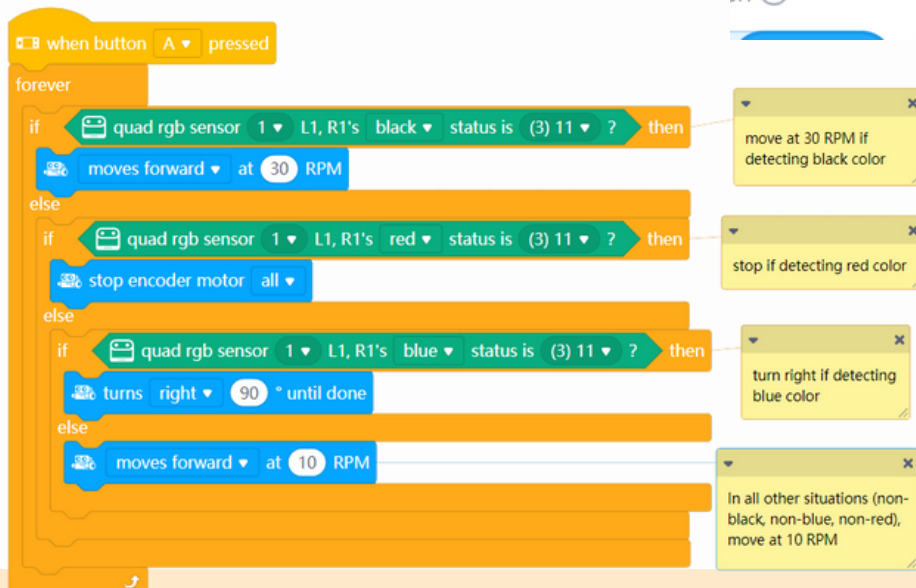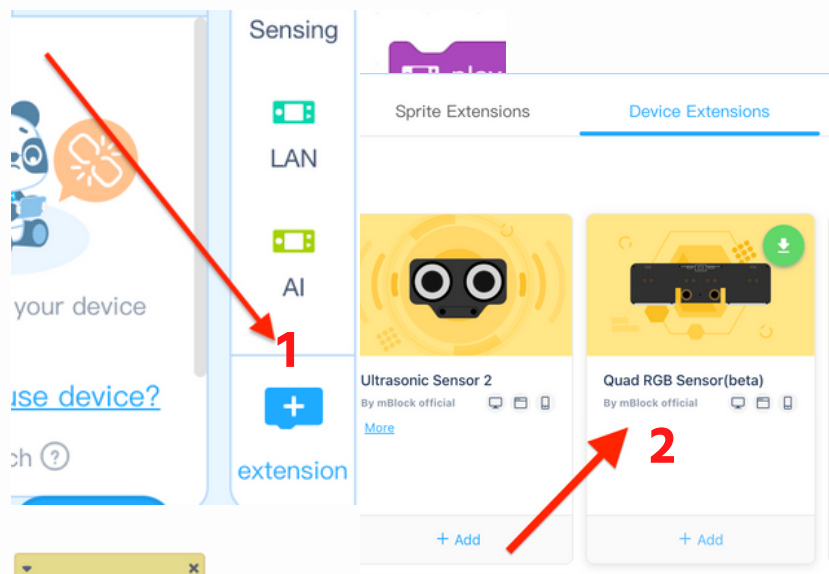# mBot Neo
Quad RGB Sensor

What is it?

- also called color sensor
- A device that
  - detects light and colors on the surface of an object
  - has a range of detection: 5 - 15mm from the object to be detected
  - has four probes: **L2, L1, R1, R2**
  - works by shining a white light at an object and then recording the reflected color

Using the Color Sensor to Detect Color!

1. Go to mBlock app and click on + (add) extension to add Device Extensions
2. Add Quad RGB Sensor Extension

3. Use three nested IF...THEN...ELSE blocks to code car movements when the sensor detects different colors