11. Case 09: Seeking light
11.1. Purpose

- Programme to set the TPBot heading to the light.
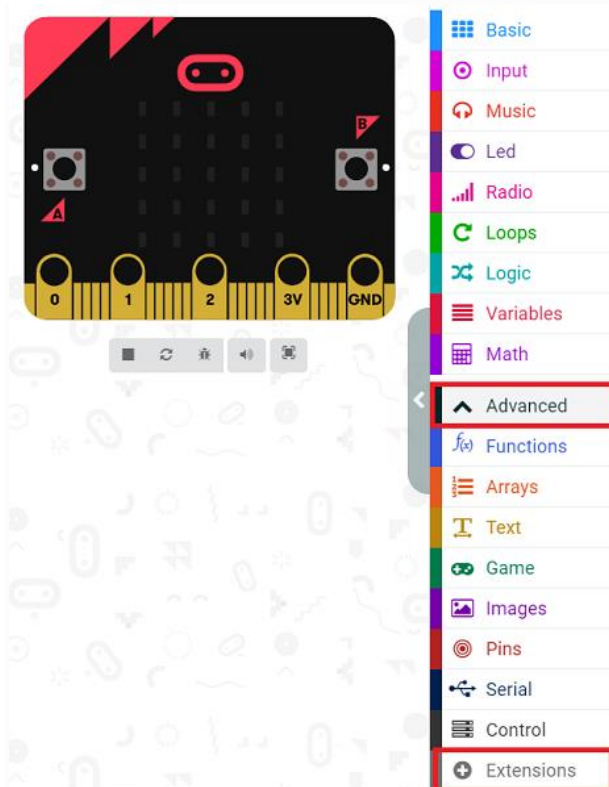
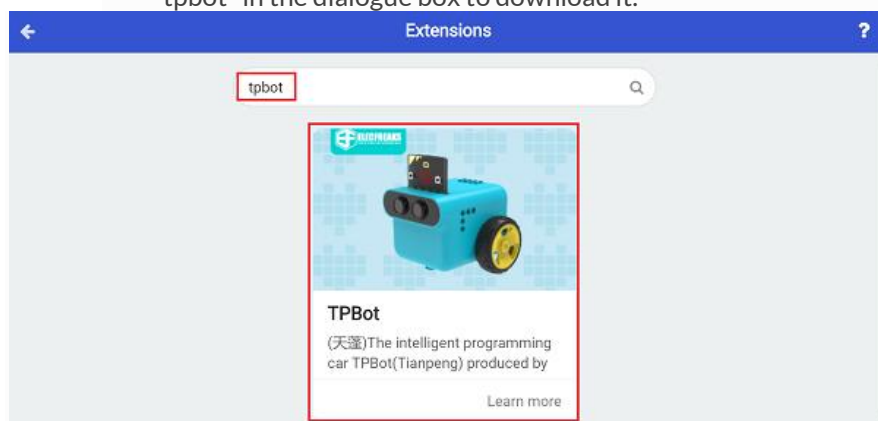**11.2. Material**

- 1 x TPBot

11.3. Software

MicroSoftmakecode

11.4. Programming

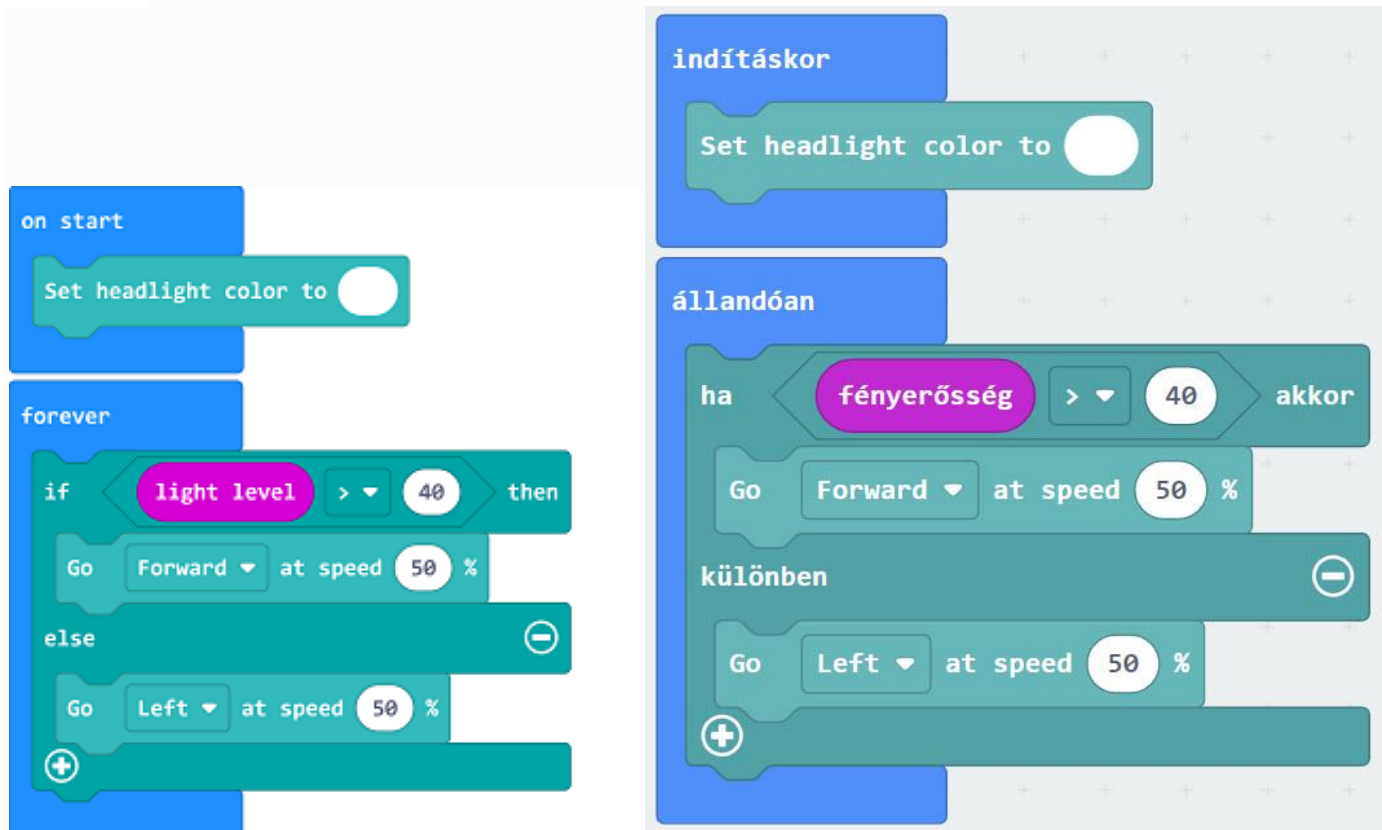- Click "Advanced" to see more choices in the MakeCode drawer.

- We need to add a package for programming. Click "Extensions" in the bottom of the drawer and search with "tpbot" in the dialogue box to download it.

- Set the headlights in white in the on start brick.
- Judge if the light intensity is over the set point in the forever brick, if yes, set the TPBot moving forward; or it goes around in circles.

Link

- Link: https://makecode.microbit.org/_by81v67kf8Ef
- You may also download it directly below:

11.5. Conclusion

- Power up to set the TPBot going around in circles or moving forward if the detected light intensity is over the set point.

11.6. Exploration

11.7. FAQ

Q: The car does not work with the code in the wiki.

A: It should be the batteries that are lack of power, please try to fix it by adding the value of the speed in the code.