



BEGINNER PROGRAMMING LESSON

EV3 Classroom: Using Comments

By Sanjay and Arvind Seshan



EV3 CLASSROOM LESSON
BY EV3LESSONS.COM

LESSON OBJECTIVES

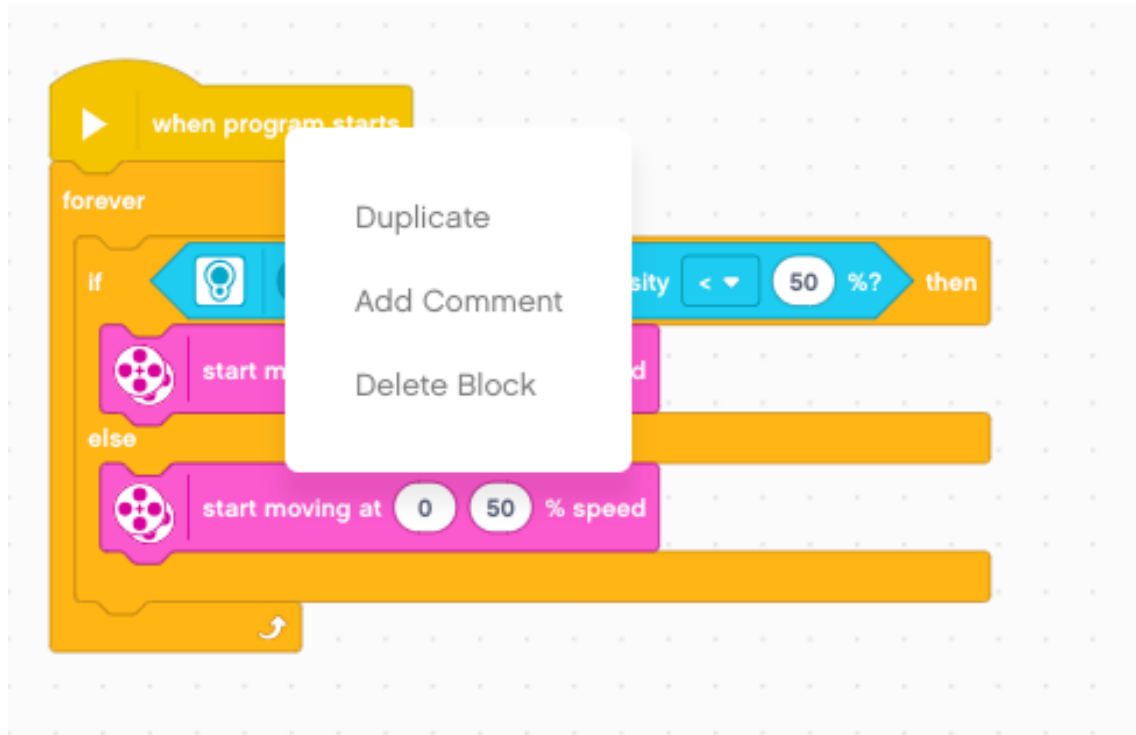
1. **Learn why to comment code**
2. **Learn the two types of comments available**
3. **Learn what makes useful comments**

WHY BOTHER WITH COMMENTS?

- **Comments in code help the author of the code remember what they were trying to accomplish. You can use them to record the goals or pseudocode for the code.**
- **It makes it easier to debug. You could use it to take notes on values**
- **More importantly, comments allow someone other than the author of the code to understand the program.**
- **Get into the habit of adding comments to your code**

ADDING COMMENTS

Right click on any block to create a comment block attached to that block



You can also click on the canvas background to create a comment that is not attached to a block

TYPE IN THE BLOCKS, ADJUST SIZE AND MOVE THEM AROUND

The image shows a Scratch-style code editor with a grid background. The code consists of the following blocks:

- when program starts** (yellow block):
 - Text box: "This is a line follower in reflected light mode"
- forever** (orange loop block):
 - if** (blue block):
 - Condition: "3" (dropdown), "is reflected light intensity", "<" (dropdown), "50" (input), "%?" (dropdown), "then"
 - then** (pink block): "start moving at" (50), "0" (input), "% speed"
 - else** (orange block):
 - then** (pink block): "start moving at" (0), "50" (input), "% speed"

Two text boxes provide additional context:

- Top text box: "This is a line follower in reflected light mode"
- Right text box: "The threshold is set to 50% so that the robot follows the edge of the line"

USEFUL & NOT USEFUL COMMENTS

- + Telling the reader what the robot is doing at this point in the code (hitting the lever with motor A, turning to the right and going towards the Mission X)
- Repeating the contents of a block of code (e.g. Move straight 1040 degrees).

CREDITS

- This tutorial was created by Sanjay Seshan and Arvind Seshan
- More lessons are available at www.ev3lessons.com



This work is licensed under a [Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License](https://creativecommons.org/licenses/by-nc-sa/4.0/).