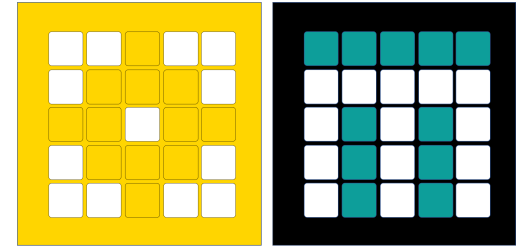


PRIME LESSONS

By the Makers of EV3Lessons



COMMENTING CODE

BY SANJAY AND ARVIND SESHAN

LESSON OBJECTIVES

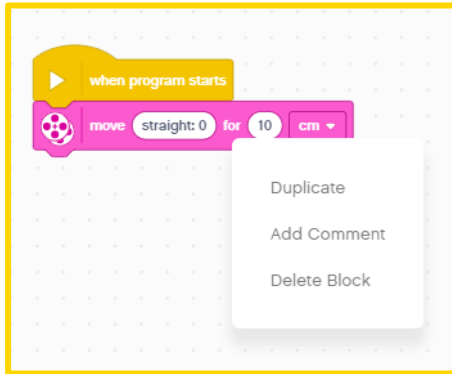
- Learn how to comment code
- Learn the importance of commenting code
- Learn what makes useful comments

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

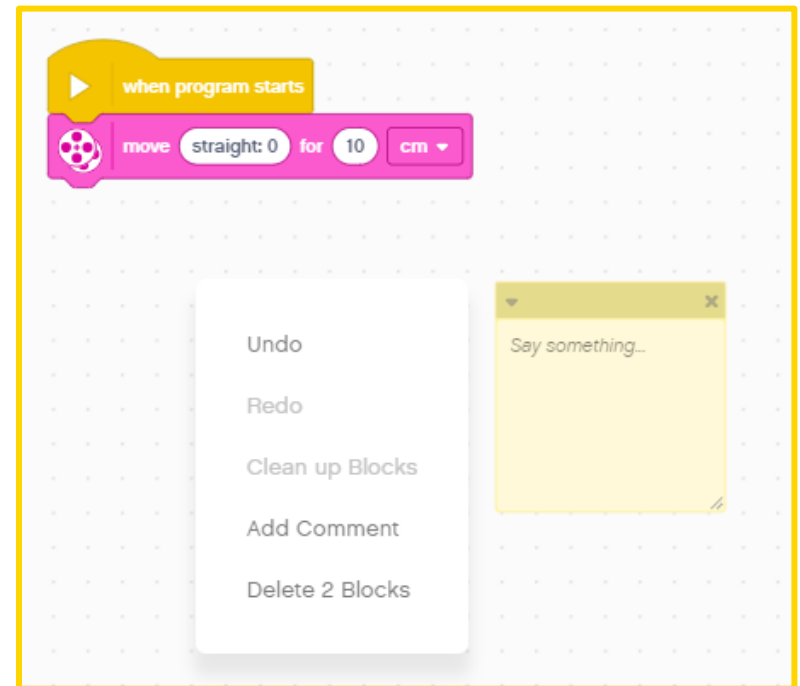
- Right click on any block to add a Comment



- Type your comments and resize and move the box as needed



- You can also right click anywhere on the Programming Canvas to create a Comment box



WHAT ARE USEFUL COMMENTS?

- Make comments count: Comments should not repeat the contents of the block.
- Comments can be used to summarize the code/document the pseudocode you wrote
- Comments can be used to document values you are trying out in the code
- Note: In our lessons, we do not use comment blocks only because it makes it harder for our collaborators to translate. Instead, we used text boxes in PowerPoint.

The screenshot displays a programming environment with a sequence of blocks and several comment boxes:

- Comment 1:** "This program moves forward until one of the color sensors sees a black line."
- Comment 2:** "Pseudocode: Configure Robot Move Straight until Color Sensor B sees Black."
- Code Sequence:**
 - when program starts
 - set movement motors to A+E
 - set movement speed to 50 %
 - start moving straight: 0
 - wait until B is color [black] ?
 - stop moving
- Comment 3:** "Tried 75% speed, but it was too fast." (A line points from this comment to the speed block in the code sequence.)

CREDITS

- This lesson was created by Sanjay Seshan and Arvind Seshan for Prime Lessons
- More lessons are available at www.primelessons.org



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