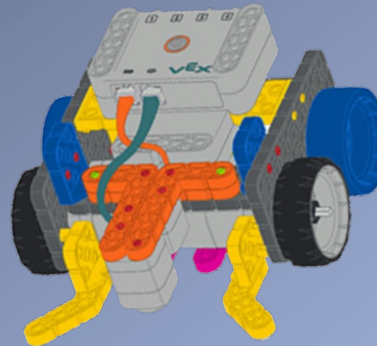


Eye and Electromagnet Coding



Ruth Patrick Science
Education Center

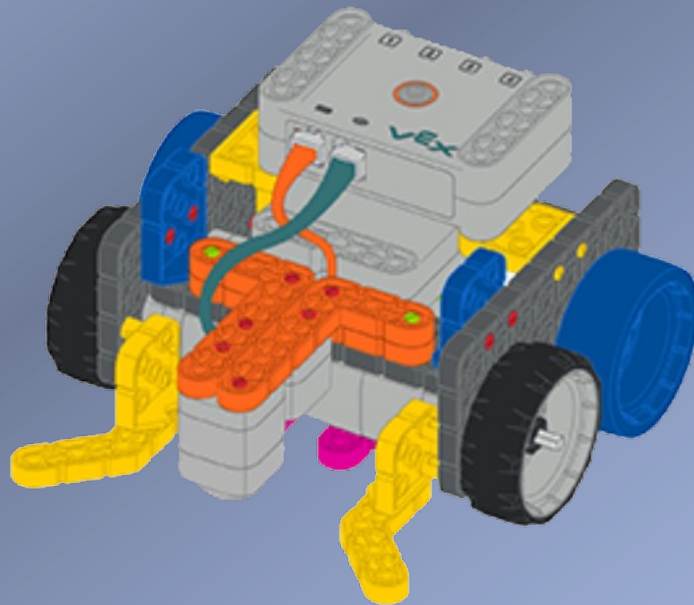
Infusing a love for Science, Technology, Engineering and Math



Create a project where the eye
sensor responds to colors

Getting Started

- Begin with the Code Base
- Use the build instructions for the Code Base - Eye + Electromagnet



Pick up and return to base

- Open VexCodeGo app
- Go to **File** and select **New**
- Add code
- Test code



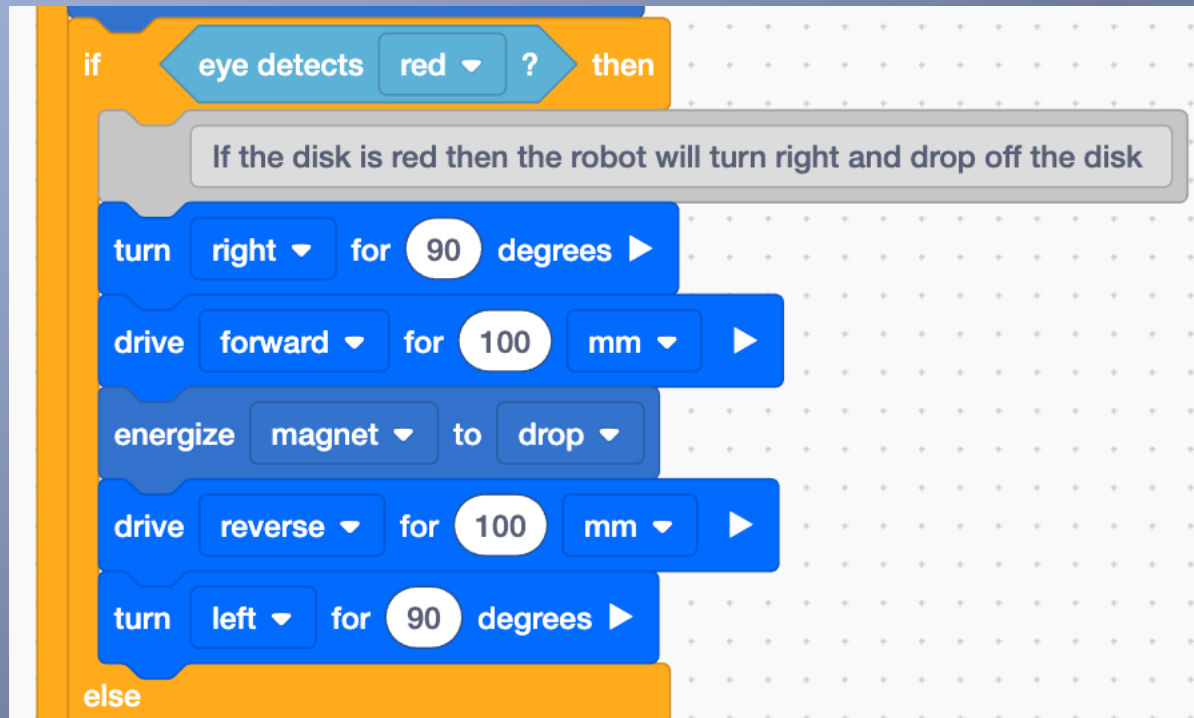
- Adjust code and observe results

Pick Up Disk Respond to Color - 1

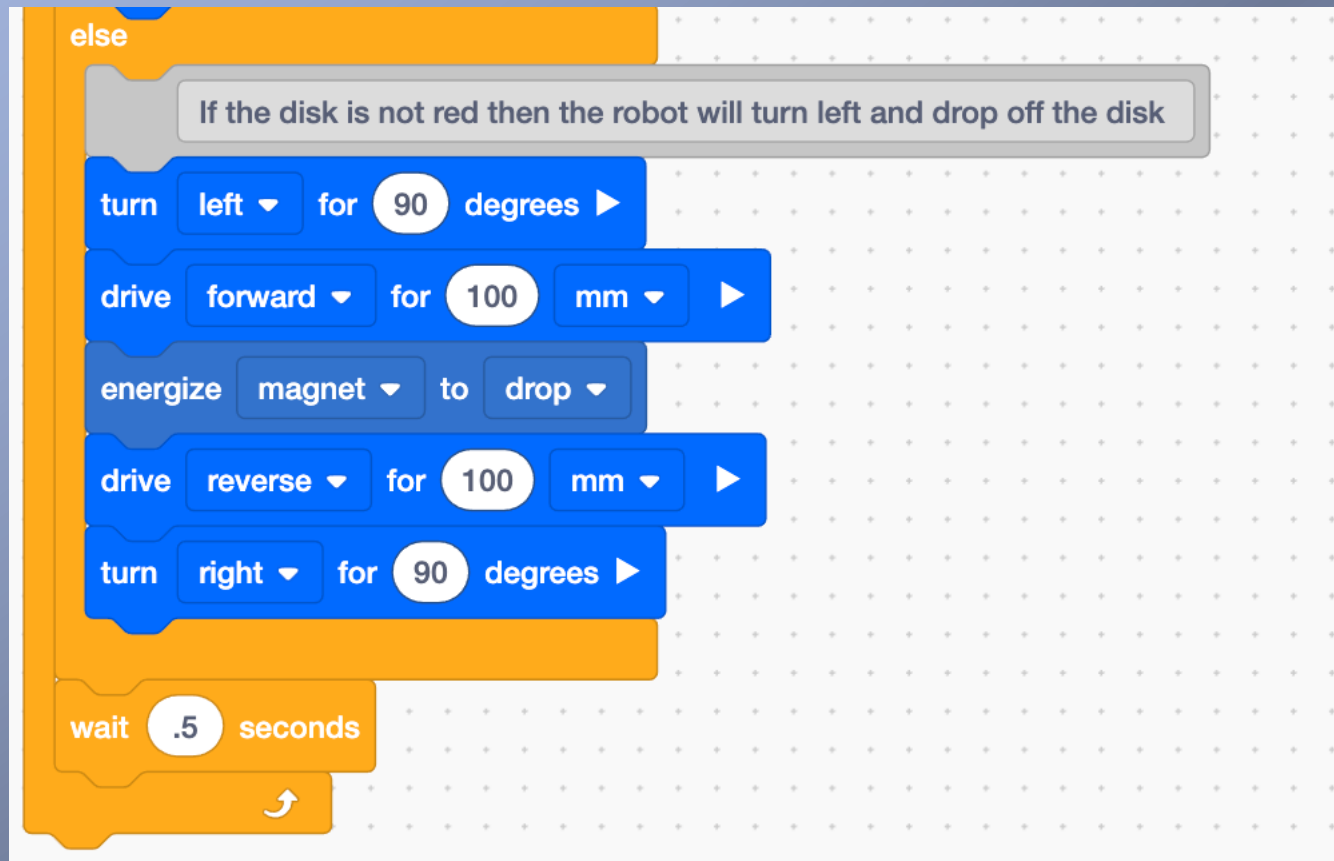
- Use the code blocks on this and the next two pages



Pick Up Disk Respond to Color - 2



Pick Up Disk Respond to Color - 3



else

If the disk is not red then the robot will turn left and drop off the disk

- turn left for 90 degrees
- drive forward for 100 mm
- energize magnet to drop
- drive reverse for 100 mm
- turn right for 90 degrees

wait .5 seconds

The code block is a yellow 'else' block with a comment: 'If the disk is not red then the robot will turn left and drop off the disk'. It contains five blue action blocks: 'turn left for 90 degrees', 'drive forward for 100 mm', 'energize magnet to drop', 'drive reverse for 100 mm', and 'turn right for 90 degrees'. Below these is an orange 'wait .5 seconds' block. A small arrow icon is at the bottom right of the 'else' block.