SPIKE PRIME LESSONS

By the Creators of EV3Lessons



USING LIGHT BLOCKS

BY SANJAY AND ARVIND SESHAN



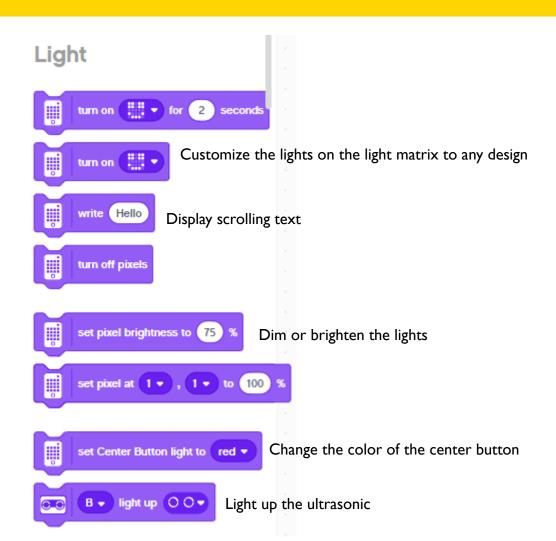


LESSON OBJECTIVES

- Learn how program the LED lights on the Hub
- Learn how to turn on the lights of the Distance Sensor
- Learn how to display sensor values to the LED Matrix

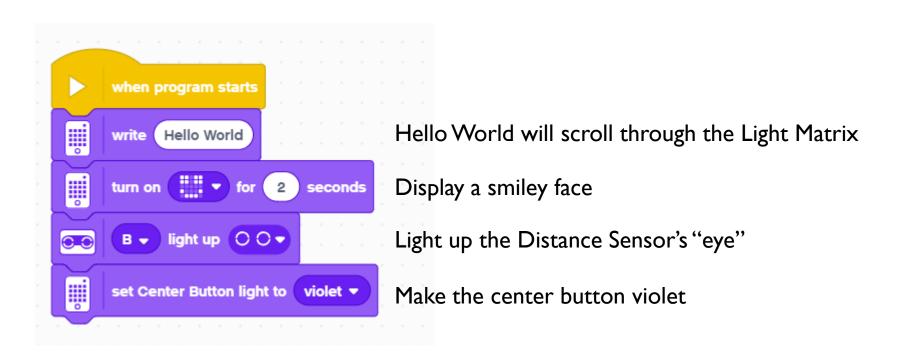
LIGHT BLOCKS

- Light blocks can be found in purple Block Palette
- You can use these blocks for many fun applications including turning on the lights of the ultrasonic sensor, creating patterns using the 5X5 LED Matrix and even display scrolling text



CHALLENGE: LIGHT UP THE WORLD

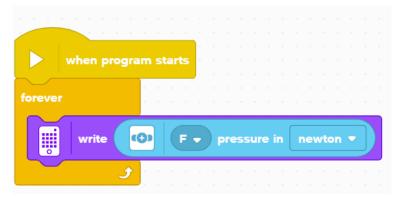
- Write "Hello World" using the light matrix
- Then display a Smiley Face for 4 seconds
- Light up all the lights around the Distance Sensor
- Change the Center Button Light to a color of your choice



CHALLENGE: DISPLAYING SENSOR VALUES

- How hard am I pushing the Force Sensor?
- Create a program in a loop that lets you view the force applied to the Force Sensor on the LED Matrix
- Display the results in Newtons (0-10)





This program displays the value of the Force Sensor to the LED Matrix

The value of the Force sensor is written to the screen

CREDITS

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



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