

Activity Three. Brace, Brace, Brace



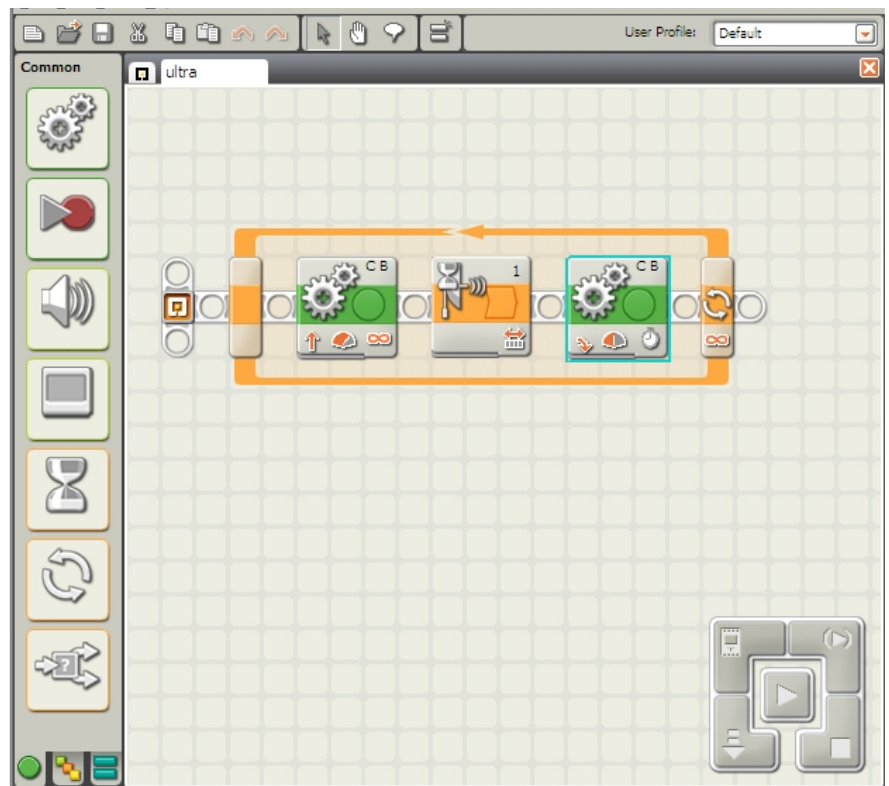
Task Outline:

In this task you will use the Ultra Sonic Sensor to avoid collisions with other robots. This task will involve you developing a simple loop program, where the robot will turn to avoid a collision with an object when the Ultra Sonic Sensor is activated.

Attach the Ultra Sonic Sensor to the robot at a suitable level so when the robot encounters other robots it turns away from them.

Motors connect to Ports A, B & C on the NXT ® Brick and **Sensors** connect to Ports 1, 2, 3 & 4. Check when you add your sensor block to the program that the correct port is selected.

You will need to adjust the **Distance** property of the sensor to set how close your robot gets to the object before it turns away.



Learning Outcomes:

- Add Ultrasonic sensor to robot.
- Select and sensor adjust sensor properties.
- Develop and fault find program.
- Use Loop block and set properties for this.



Hint:

Use the Loop Block to repeat a set of Blocks, but try the code out first before you add the loop block. Only Blocks inside the loops will be repeated.

