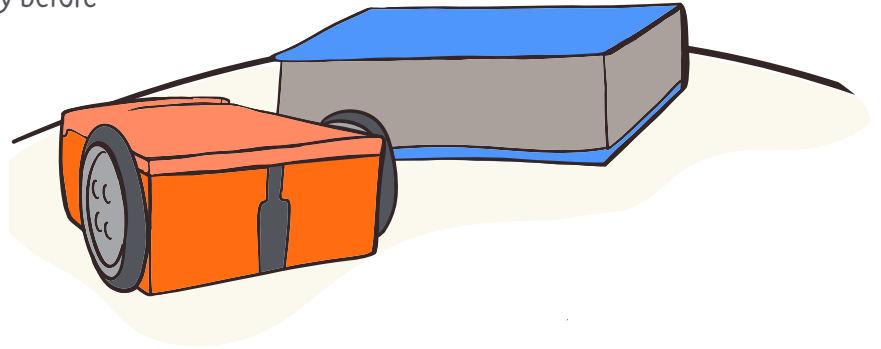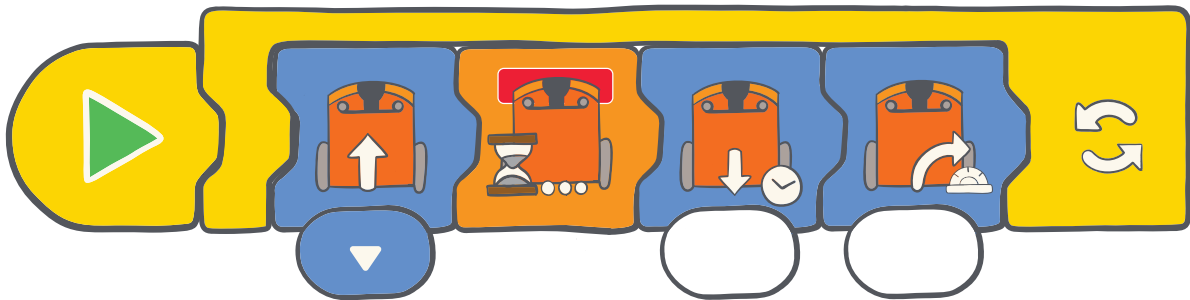# Let's detect and avoid

Edison's infrared light sensors let Edison detect objects.
We can use these sensors to make different programs using EdBlocks.

This time, let's make a program that uses the infrared light sensors
to tell Edison to detect obstacles, then turn away before
running into them.

What to do with EdBlocks

Using the EdBlocks app, arrange the blocks to match the program here:

The first block tells Edison to drive forward
        The second block tells Edison to wait until an obstacle is detected.
                The third block tells Edison to back up.
                        Then the fourth block turns Edison away from the obstacle.
                                The loop tells the program to then start back at the first block.

You will need to experiment to work out how much time to put in the 'drive backwards' block and how many degrees to put in the 'turning' block.

What to do with Edison

Download the program to Edison.
Put some obstacles you know Edison can detect around Edison.
Run the program by pressing the play (triangle) button.
Watch as Edison uses the program to detect an object, then turn and drive away.