Flip Bot



Program the rover to flip itself upside down and then stop. There are many solutions to this problem. The rover must flip itself without being touched while running and once it has flipped it should stop. You could try combining this with the Turn Over Rover program to include lights.

Relevant Coding Skills

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Sy Branching

Relevant Rover Concepts

Motors Motors



→ Accelerometer



Exercise Setup

The most common way to flip the rover is having it drive up a flat vertical surface and fall backwards. Perhaps using the back of a laptop screen, a book, or a wall. These are not the only solutions. See what other driving conditions might make the robot flip.

Here's Our Approach

This solution can be extended to make the rover reset itself and include LEDs

Stage 1

Start moving forward to eventually encounter a vertical obstacle.

Stage 2

Add a repeat block where the condition is a sensor **block** that checks if the rover is right way up. This will cause the rover to wait until it is not the right way up.

Stage 3

After the **loop** that waits for the robot to flip we add a motor block to stop the rover.

