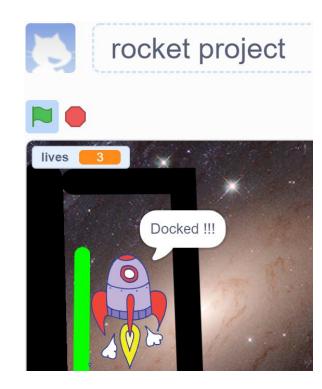
Understanding the Rocket SIM

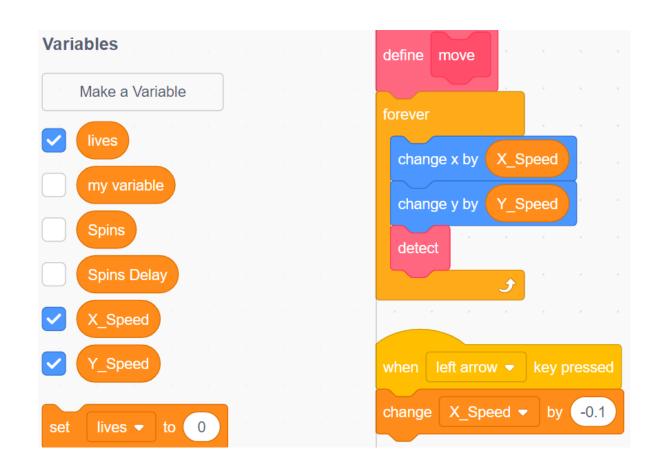
- a scratch project with real Physics



Speed variables and movement

When the left arrow is pressed the X_Speed variable is changed by -0.1

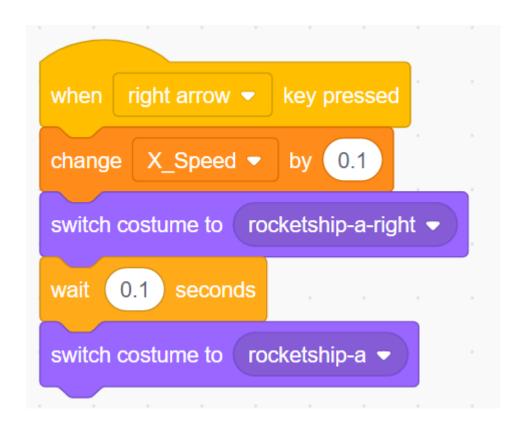
In the move block the X_Speed variable is used to change the x (horizontal) position of the rocket ship.



The costumes

When the right arrow is pressed the right costume will display for 0.1 seconds

The rocketship-a-right costume will have a puff of gas going to the Left to simulate the rocket using its thruster to push it right.



Detection (sensing)

The detect block is defined here but is called from inside the move block loop so sensing happens after the rocket ship has moved.

If green is detected then Dock broadcast.

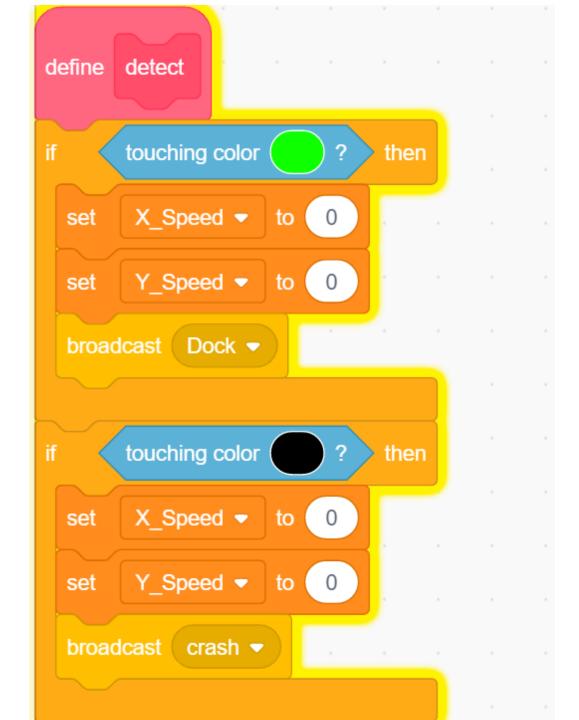
If black is detected then <u>crash</u> is broadcast.

Does the broadcast...

Appear as a message for the player?







Adding more

This dock sprite script makes the dock change to costume 2 when it receives the Dock broadcast.

The broadcast could also be used to signal the start of <u>level</u> 2 of the simulation.

What additions could you add to the simulation?

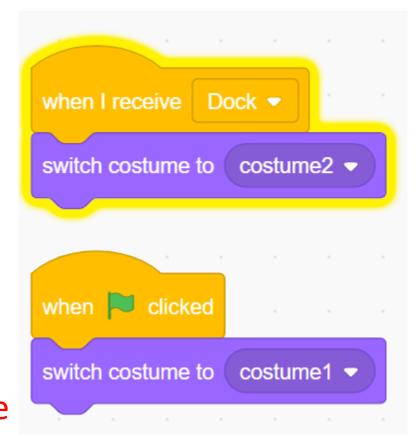
asteroids

lost aliens

Slalom, maze, obstacle course

docking speed restrictions

lives, health, energy levels



time challenge