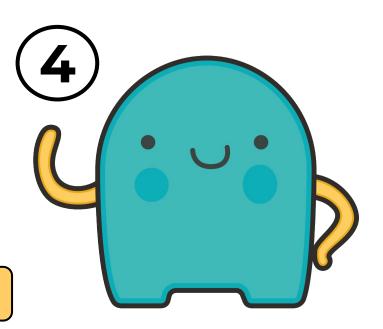


Starter Lesson 4:

Storm Simulation

An Introduction to New Behaviors





What are the key features of a storm?





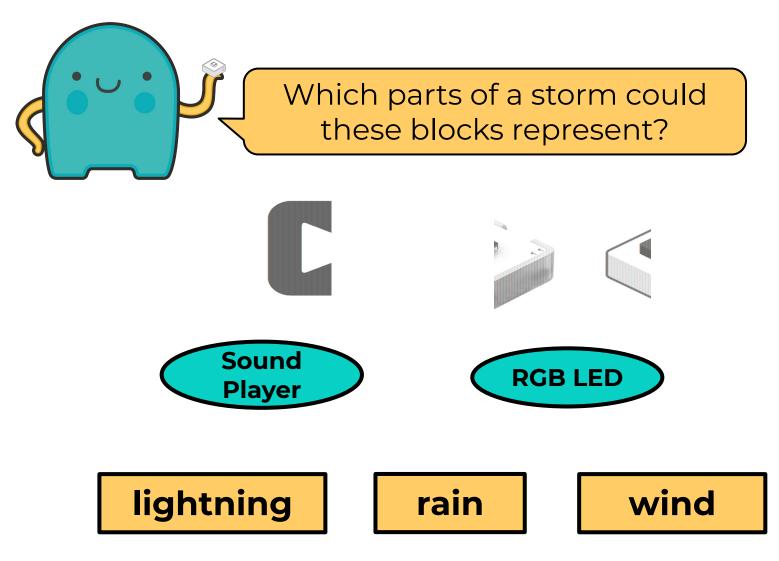


How could SAM Space be used to simulate the effect of a storm?

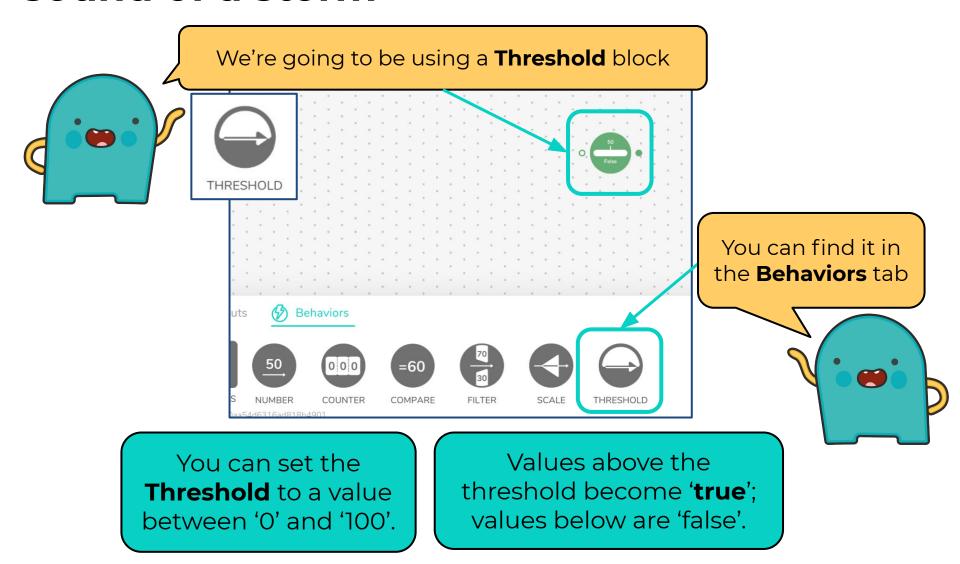




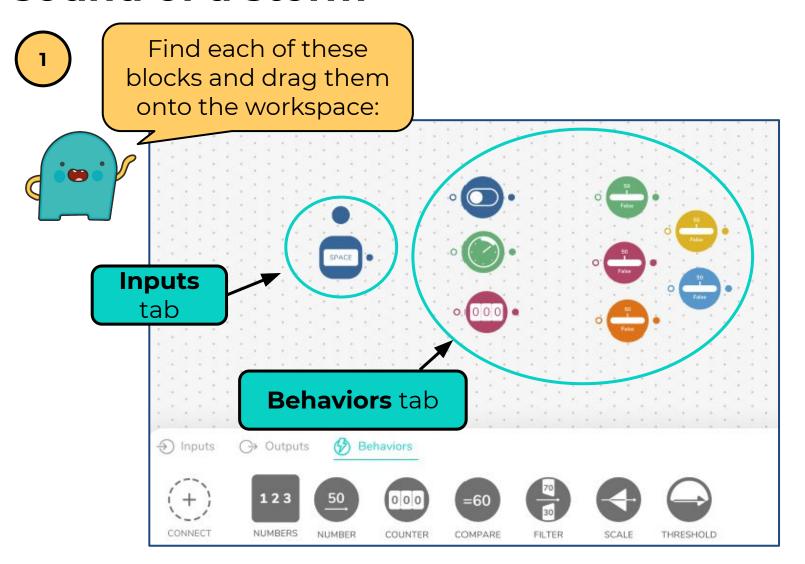




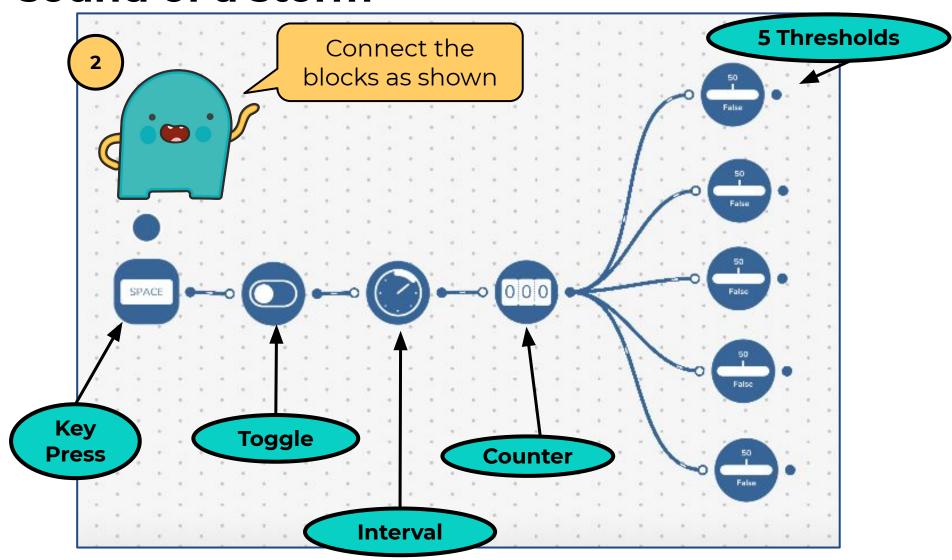




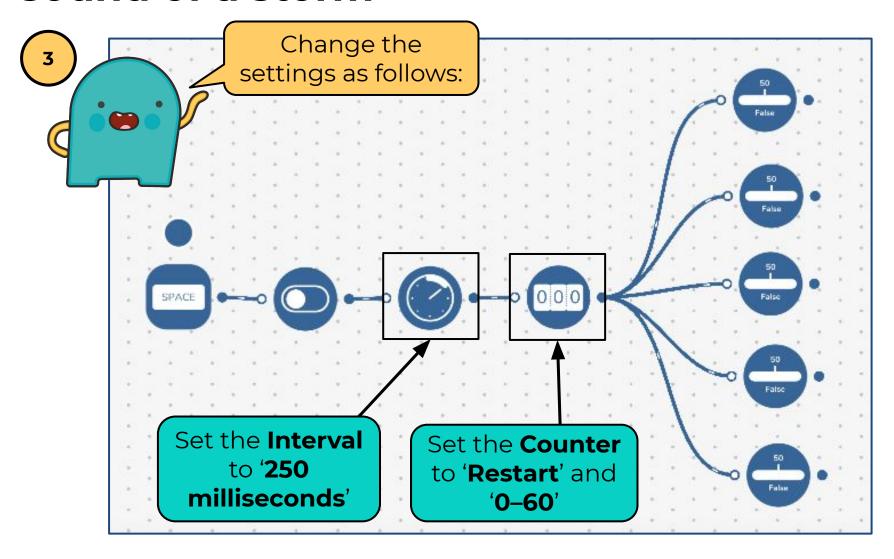




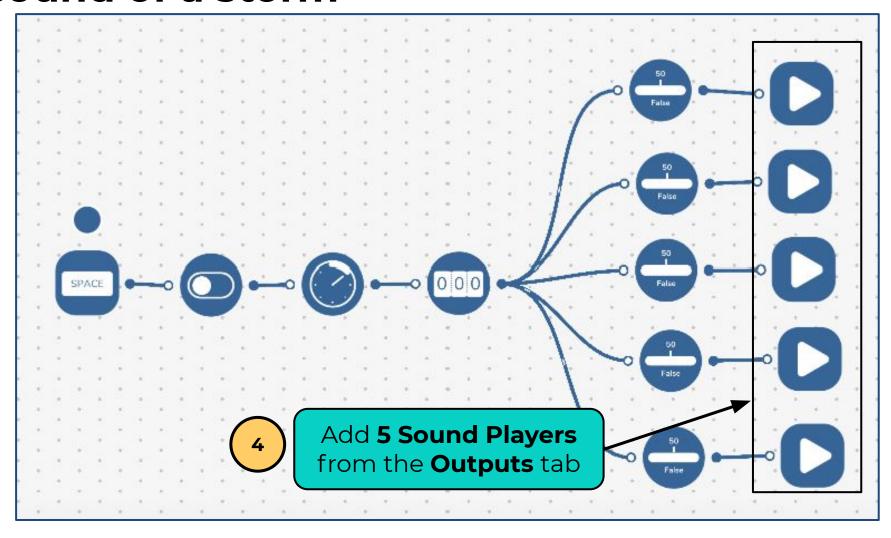




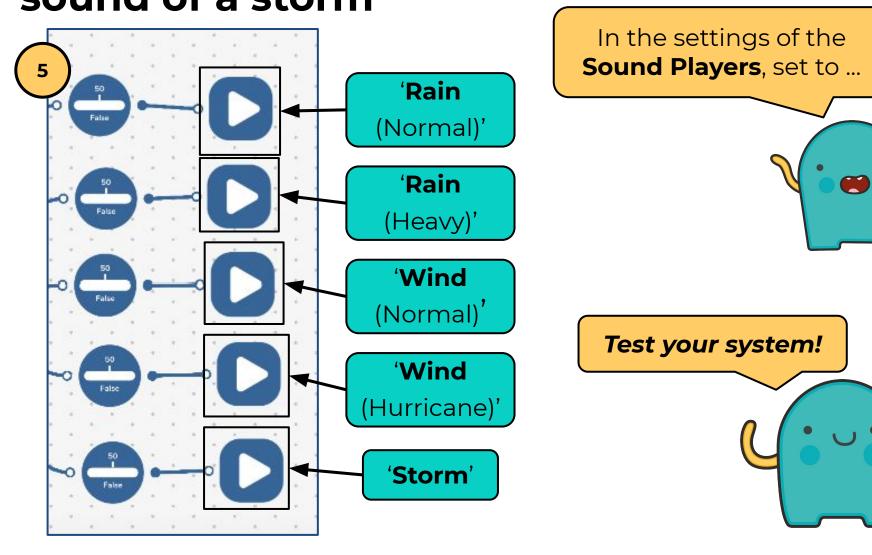




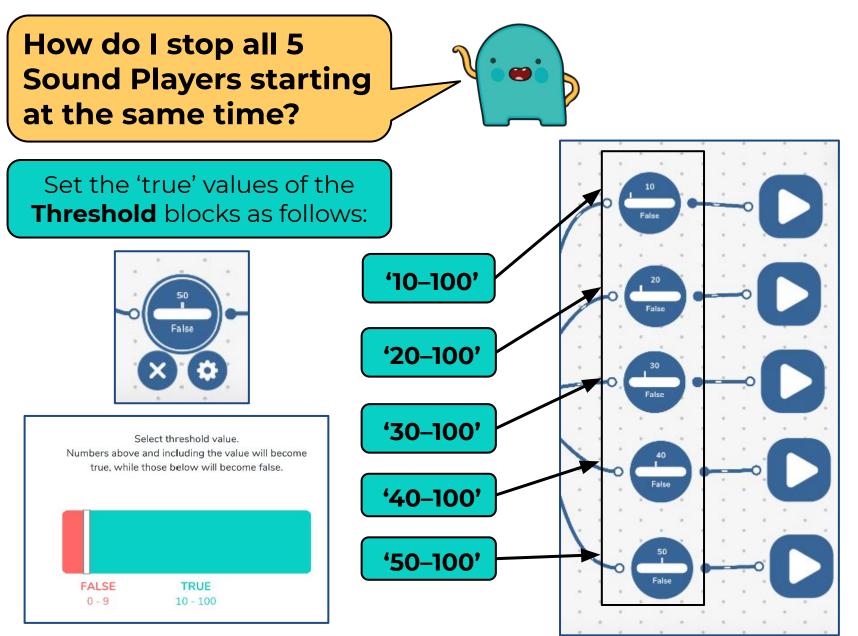










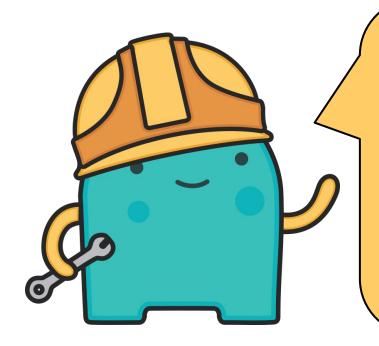






Challenge:

Create a flash of lightning using an RGB LED



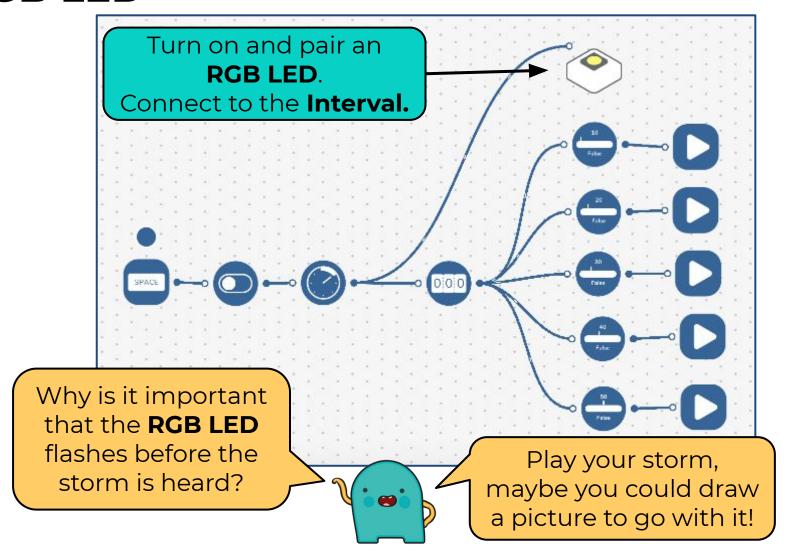
Think:

- What other blocks might you need?
- What behaviors will help create the "flash" effect of lightning?

Take some time to tinker on your own. Then, let's come together to see what you created!



Create a flash of lightning using an RGB LED



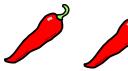




Choose an extension challenge!



Experiment with the **RGB LED**.
Can you make the light cycle through different colors?



Experiment with the settings of the **Counter** and **Interval** blocks. Can you make the storm last longer?



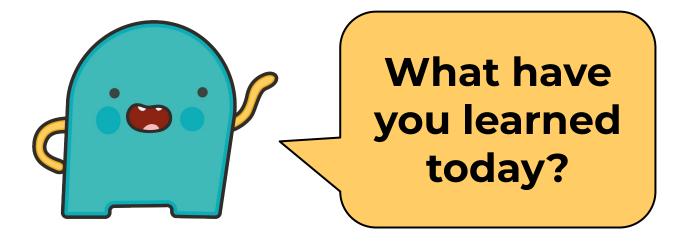




Experiment with a second **RGB LED** to the system. Can you make it flash a different color to represent the ending of the storm?







Can you draw your system?