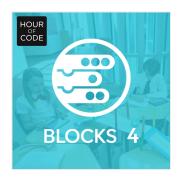
Blocks 4: Variables



Use variables to build a hot potato game powered by Sphero. You will also learn about loop until, and randomness within bounds to bring this classic game to life. This is a great activity after you complete Blocks 3, and can be used for the "Hour of Code."

Tags: coding variables loop until randomization block coding

hour of code

Grades: 2 to 11 | **Duration**: Up To 1 Hour

Step #1: Setup

- 1. Charge your robot.
- 2. Download and sign in to the app.
- 3. Complete or answer the questions for each step.

Step #2: Introduction

Review the concepts you will use in this activity.

YouTube video: https://youtu.be/bjhtQ6VAB7k

Step #3: Setup & Create Variables

Create your first variables and learn how they will interact with each other to power the game.

YouTube video: https://youtu.be/mP38NjN8 fA

Step #4: Randomness & Loop Until

Use randomness to make the game unpredictable, and loop until to repeat the game logic until the toss variable is greater than the expire variable.

YouTube video: https://youtu.be/jb1aEOOnLpQ

Step #5: If Tossed

Create an if/then statement to indicate a toss occurred.

YouTube video: https://youtu.be/VjXT3t8Abh8

Step #6: Condition Reached

When the toss variable is greater than the expire variable, you need to communicate that the player holding Sphero is OUT.

YouTube video: https://youtu.be/B8-Riur2Vbw

Step #7: Play The Game

Play the hot potato game with a group of friends!

YouTube video: https://youtu.be/xPp7Ac0jTlw

