

Lesson 7: Use Functions

Try It: Practice Activities

Instructions:

Open the "WhiteRabbitProject" project you saved in the previous lesson. You will use this project for all of the practice activities listed below. Download this lesson's project file if you did not complete the previous lesson's Try It activities.

1. Select an object and view its functions.
 1. Select the White Rabbit object from the instance menu.
 2. View the functions available for the White Rabbit object under the Functions tab.
2. Use a function to set a movement distance.
 1. Use a `getDistanceTo` function to make the baby bunny move to the hedge.
 2. Save the project.
3. Use a math operator to avoid a collision.
 1. Use a math operator in the `getDistanceTo` function so that the baby bunny stops before colliding with the hedge.
 2. Save the project.
4. Avoid a collision using depth.
 1. Use the `getDepth` function to avoid a collision when the bunny moves towards the hedge. Adjust with additional math calculations if necessary.
 2. Save the project.

Optional Activities

Complete the following optional practice activities below to continue practicing the concepts you learned in this lesson.

1. Create a new project using the desert template. Add a lioness object and three boulder objects to the scene.
 1. Use functions to program the lioness to move precisely next to each boulder object; landing next to the boulders but not going through them.
 2. Save the project.
2. Create a new project using the grassy template. Add three trees and one bird to the scene. Position the bird in one of the trees. Ensure that the trees are at least 10 meters apart from each other.
 1. Use functions to program the bird to fly from one tree to the next, landing in the tree but not going through it. Hint: Declare a procedure for the fly motion. Then, have the bird flap its wings while simultaneously moving the distance to the tree.
 2. Set the bird as the vehicle for the camera, so the camera follows the bird around as it flies around the scene.
 3. Save the project.