Level 1

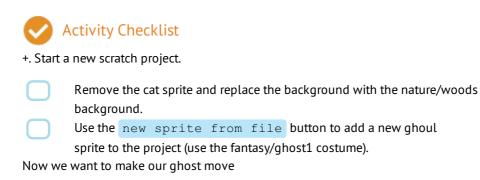
Ghostbusters



Introduction

This project is like the game Whack-a-Mole. You get points for hitting the ghosts that appear on the screen. The aim is to get as many points as possible in 30 seconds!

STEP 1: Create a flying ghost



Add a Variable for this sprite only called speed.

On the Stage, the stage monitor for this variable should say "Sprite1 speed".

If it just says "speed", delete the variable and create it again, for this sprite only.

Uncheck the box next to the speed block in the

Variables palette so it does not show on the Stage.

The speed variable will control how fast the ghost moves. We use a variable so that

we can change how fast the ghost moves as the game progresses.

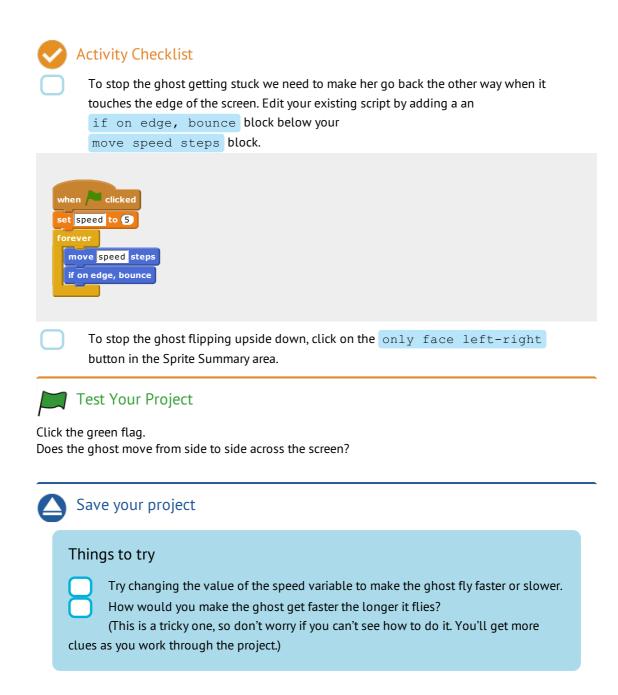
We want the ghost to start moving when the game starts, so make a script like this:

```
when clicked
set speed to 5
forever
move speed steps
```



Test Your Project

Click the green flag and see what your ghost does. Why does it get stuck on the edge of the screen?



STEP 2: Make the ghost appear & vanish randomly

To make the game more fun, we want the ghost to appear and vanish randomly. We'll do that with another script that runs at the same time as the one that moves the ghost. This new script needs to hide the ghost for a random time, then show it for a random time, and repeat that forever (or until the game finishes).



Activity Checklist

Create this script for the ghost:

```
when clicked

forever

hide

wait pick random 2 to 5 secs

show

wait pick random 3 to 5 secs
```



Test Your Project

Click the green flag.

Does the ghost move from side to side across the screen and vanish and appear again randomly?



Save your project

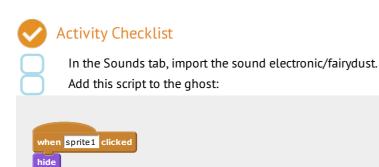
Things to try

Try changing the range of the random numbers. What happens if you pick very big numbers or very small numbers?

(Does this give you any more clues for how to make the ghost speed up the longer the game is played?)

STEP 3: Make the ghost disappear when it's clicked

To turn this into a game, we need to give the player something to do. They need to click on the ghost to make it disappear. When the ghost is clicked, we want it to disappear and play a sound.





Test Your Project

Click the green flag.

play sound Fairydust

Does the ghost disappear and play the sound when you click it?



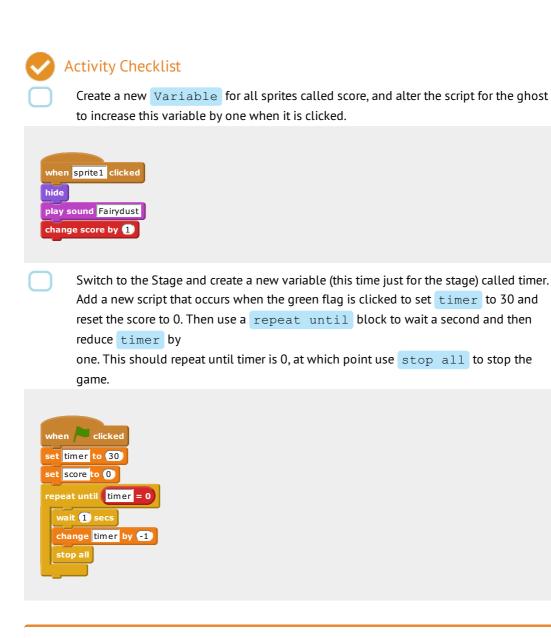
Save your project

Things to try

Ask your volunteer if you can record your own sound to play.

Step 4: Add a score and timer

We've got a ghost, but now we want to make a game! We want to score points every time we click on the ghost but we also want to have a time limit on the game. We can use a variable for the score and the timer.





Test Your Project

Click the green flag.



Save your project

Things to try

- 1. How might you make the ghost speed up as the game goes on?
- 2. Well done you've finished the basic game. There are more things you can do to your game though. Have a go at this challenge!

Challenge: add more ghosts

If one ghost is good, more must be better! Let's have three ghosts flying around.

- Duplicate the ghost by right-clicking it in the sprite list.
- 2. For each ghost adjust the size of the sprite so the ghosts are different sizes.
- 3. For each ghost change the speed variable so that they fly at different speeds.
- 4. Move the ghosts around the canvas so that they are not all together.



Click the green flag.

Do you have three ghosts that move from side to side across the screen, randomly appear and disappear, and disappear when you click on them?



Save your project

Things to try
1. How many ghosts is a good number for the game?
2. Can you make the ghosts look different? You could either edit their costumes,
or use some blocks from the Looks palette to change them.
3. Can you make the ghosts be worth different points? How about making the
fastest (and smallest) ghost worth 10 points?
Well done you've finished, now you can enjoy the game!
Don't forget you can share your game with all your friends and family by clicking on Share
on the menu bar!