



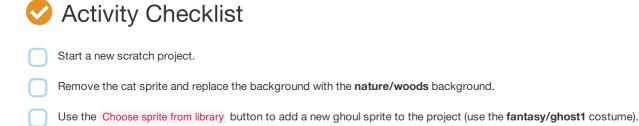
Introduction

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!



screenshot

Step 1: Create a flying ghost



Now we want to make our ghost move. Add a Variable for this sprite only called speed.

On the Stage view, the stage monitor for this variable should say "Ghost1: 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 Data palette so it does not show on the Stage. The speed variable will control how fast this 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:



Click the green flag and see what your ghost does.

Why does it get stuck on the edge of the screen?



Save your project



Activity Checklist

To stop the ghost getting stuck we need to make her go back the other way when she touches the edge of the screen. Edit your existing script by adding an if on edge, bounce block below your move speed steps block.

```
if on edge, bounce
```

To stop the ghost flipping upside down, click on the rotation style: left-right button in the (i) section of the Sprite Summary area for the ghost sprite.



Test Your Project

Click the green flag.

Does the ghost move from side to side across the screen?



🛆 Save your project

Things to try

Try changing the value of the speed variable to make the ghost fly faster or slower.

How would you make the ghost get faster the longer it's flying? (This is a tricky one, so don't worry if you can't see how to do it. You'll get more clues as you work through the project.)

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).



Create this script for the ghost:

```
wait pick random 2 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.



Activity Checklist

In the Sounds tab, add a new sound Electronic/fairydust, using the Choose sound from library button.

Add this script to the ghost:





Test Your Project

Click the green flag.

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.



Activity Checklist

Create a new Variable for all sprites called score, and alter the script for the ghost to increase this variable by one when it is clicked.

- Switch to the Stage and create a new variable called time_left.
- Add a new script that occurs when the green flag is clicked to set time_left to 30 and reset the score to 0. Then use a repeat until block to wait a second and then reduce time_left by one. This should repeat until time_left is 0, at which point use stop all to stop

```
set time_left ▼ to 30
```



Test Your Project

Click the green flag.



Save your project

Things to try
How might you make the ghost speed up as the game goes on?
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.
For each ghost adjust the size of the sprite so the ghosts are different sizes.
For each ghost change the speed variable so that they fly at different speeds.
Move the ghosts around the canvas so that they are not all together.
Tast Varus Dualast
Test Your Project
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
How many ghosts is a good number for the game?
Can you make the ghosts look different? You could either edit their costumes, or use some blocks from the Looks palette to change them.
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 your game!
Don't forget you can share your game with all your friends and family by clicking on Share on the menu bar!
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