

Register/login at https://scratch.mit.edu

Use the ghost effect.

- 1) Create a new Project and give it a name.
- 2) In the **Sprite** section, **choose a sprite**. Look for the 'Fantasy' **Ghost** character. Keep Scratch the Cat for now.



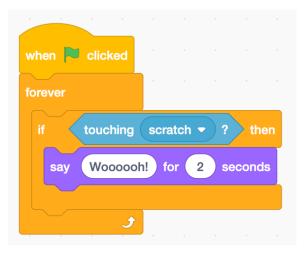
- 3) Look for a background for a haunted house or forest.
- 4) Add code to **Scratch the cat** that loops **forever** and **moves** it to the mouse pointer.
- 5) Now make the **ghost** *ghostly*. Add a **start** block and **set ghost effect** to 50 percent (%) to make it half invisible.





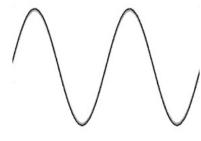
6) Add a forever loop and inside the loop make the Ghost glide towards the cat, taking a random number of seconds from 1 to 3.

7) Add another loop to make the Ghost sense when it's touching the cat, and if they touch, say "Woooooh!" as ghosts do.



Fade in and Fade out

The **timer** records how much time, in seconds, have passed since the last time the green flag was clicked.



A sinewave is a wavy line we can use with the Scratch **sin** function. Use it to vary the ghost effect over time. Multiplying **timer** by 100 changes the frequency of the wave.

The peaks of the wave are equal to 1, and the troughs to -1. Multiply by 25 so it swings from -25 to 25, then add 75 for a ghost effect from 50% to 100% invisibility.

8) Make the ghost fade in and out with by adding this block to the loop above: 75 + (sin(timer * 100) * 25)



9) Now try duplicating the ghosts (right-click the sprite).

Save your code with a good name.