

Make a Card



1. Fold the card in half

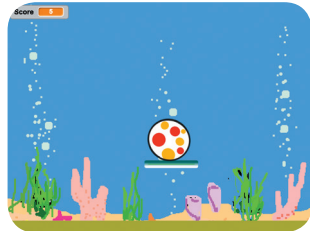
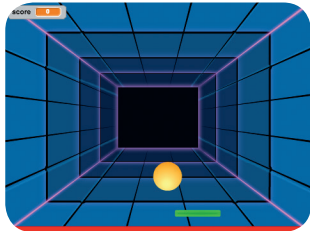


2. Glue the backs together



3. Cut along the dashed line

Pong Game Cards



Make a bouncing ball game with sounds, points, and other effects.

Pong Game Cards

Use these cards in this order:

- 1 Bounce Around
- 2 Move the Paddle
- 3 Bounce Off the Paddle
- 4 Game Over
- 5 Score Points
- 6 Win the Game

Make a Card



1. Fold the card in half



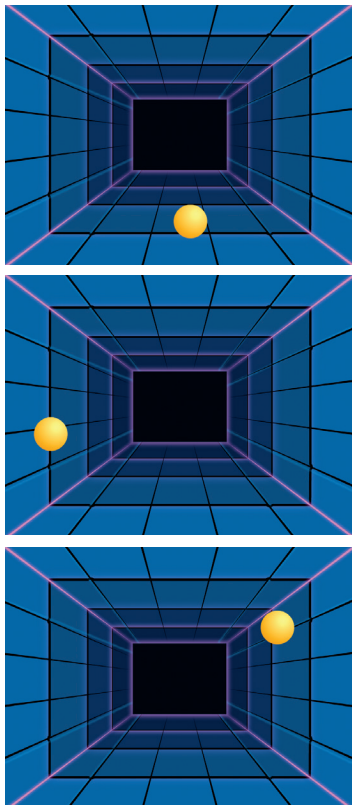
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Bounce Around

Make a ball move around the Stage.



Pong Game

1




Bounce Around


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GET READY


Choose a backdrop.


New backdrop:  neon tunnel

Choose a ball.

New sprite:  Ball

ADD THIS CODE

when  clicked

turn  15 degrees

forever

move 15 steps — Type a bigger number to move faster.

if on edge, bounce

TRY IT

Click the green flag to start.



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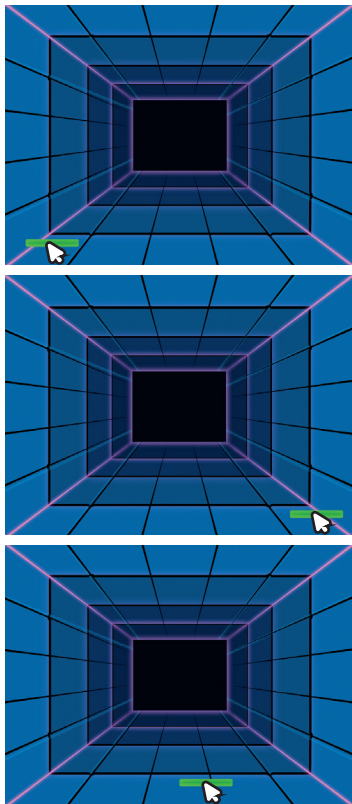
2. Glue the backs together



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Move the Paddle

Control a paddle by moving your mouse pointer.



Pong Game

2



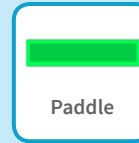
Move the Paddle

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GET READY

Choose a sprite for hitting the ball, such as Paddle

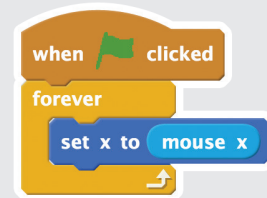
New sprite:    



Then, drag your paddle to the bottom of the Stage.

ADD THIS CODE

Insert the **mouse x** block in the **set x to** block.



TRY IT

Click the green flag to start.



Move your mouse pointer to move the paddle.

TIP

You can see the **x** position change as you move the mouse across the Stage.



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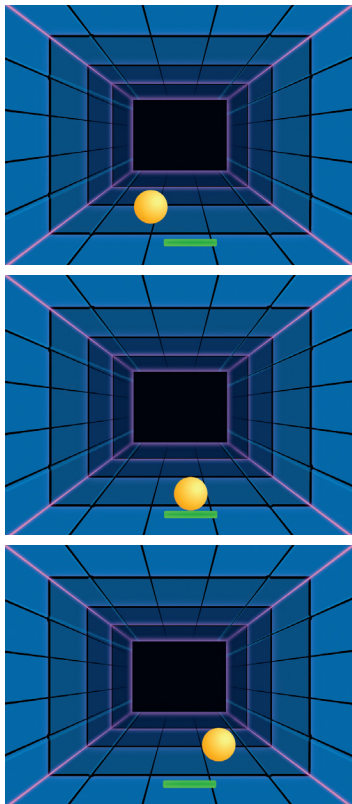
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Bounce Off the Paddle

Make the ball bounce off the paddle.



Pong Game

3

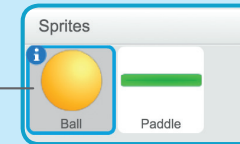


Bounce Off the Paddle

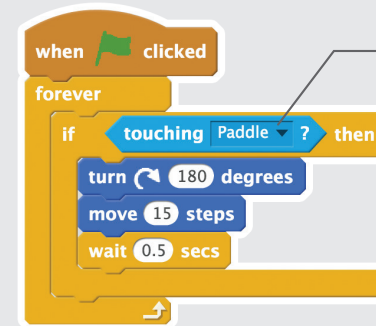
scratch.mit.edu/pong

GET READY

Click to select the **Ball** sprite.



ADD THIS CODE



Choose the **Paddle** sprite from the menu.

TRY IT

Click the green flag to start.



TIP

Want the ball to turn randomly? Insert a **pick random** block into the turn block:



Type in numbers around 180.

Make a Card



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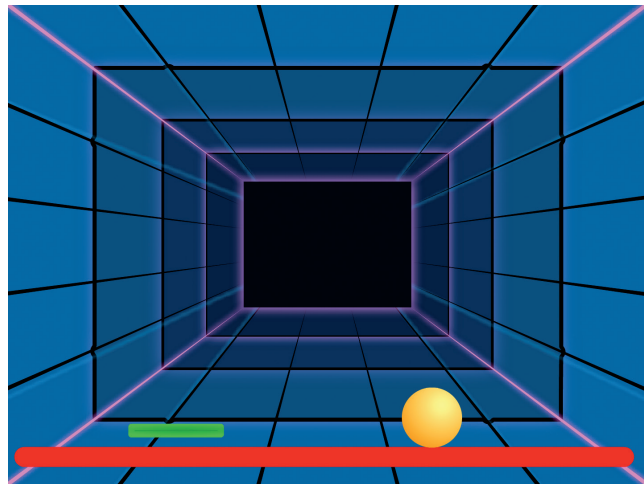
2. Glue the backs together



3. Cut along the dashed line

Game Over

Stop the game if the ball hits the red line.



Pong Game

4



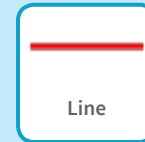
Game Over

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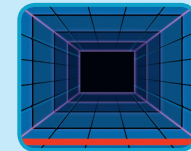
GET READY

Choose a sprite called Line.

New sprite:



Drag the Line to the bottom of the Stage.



ADD THIS CODE

```
when green flag clicked
  go to x: 0 y: -170
  forever loop
    if touching Ball then
      stop all
```

Choose the **Ball** sprite from the menu.

TRY IT

Click the green flag to start.



Make a Card



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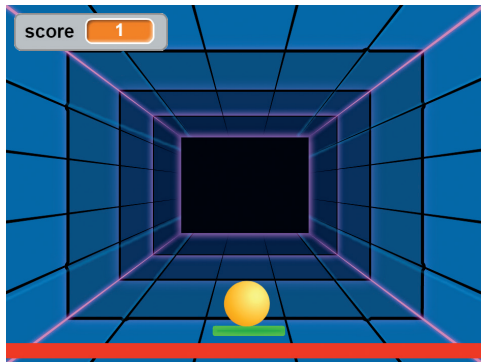
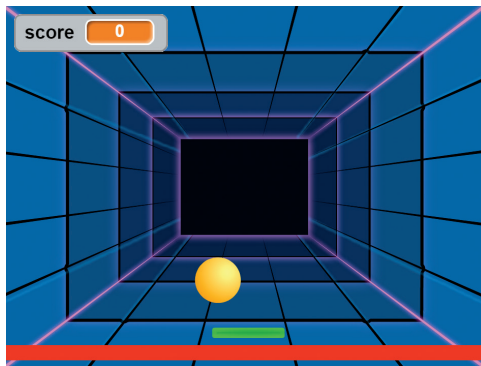
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Score Points

Add a point each time you hit the ball with the paddle.

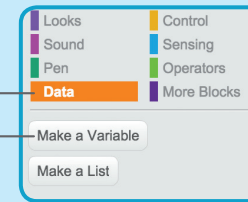


Score Points

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GET READY

Choose **Data**.



Click the **Make a Variable** button.

New Variable

Variable name:

For all sprites For this sprite only

Cloud variable (stored on server)

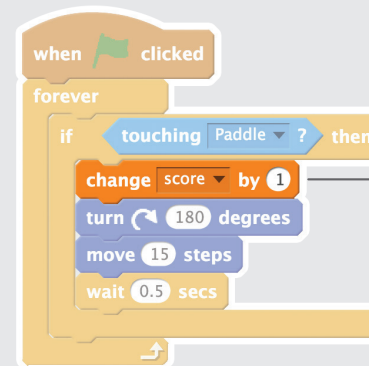
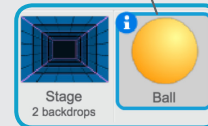
OK

Cancel

Name this variable **score** and then click **OK**.

ADD THIS BLOCK

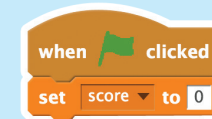
Click to select the **Ball** sprite.



Add this block to increase the score.

TIP

Use a **set score to 0** block to reset the score when you click the green flag.



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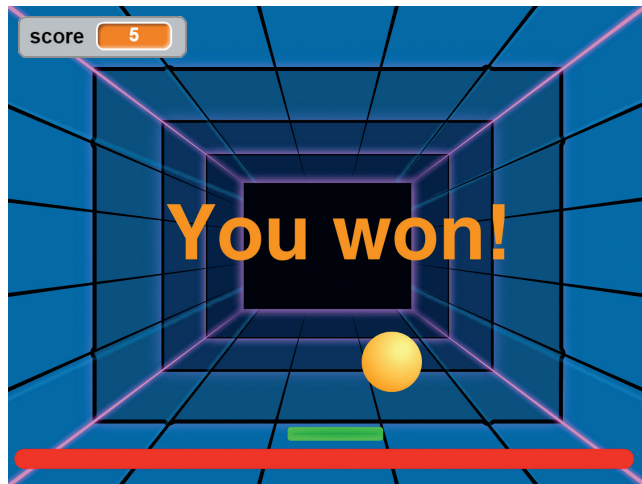
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Win the Game

When you score enough points,
display a winning message!



Pong Game

6



Win the Game

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GET READY

Click the paintbrush
to draw a new sprite.

New sprite:   

Bitmap Mode

Convert to vector

Click the **Convert
to vector** button.

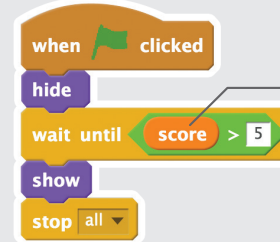
Use the **Text** tool to write
a message, like "You won!"

You won!

You can change the font
color, size, and style.

ADD THIS CODE

Click the **Scripts** tab.



Insert the **score** block.

TRY IT

Click the green
flag to start.



Play until you score
enough points to win!