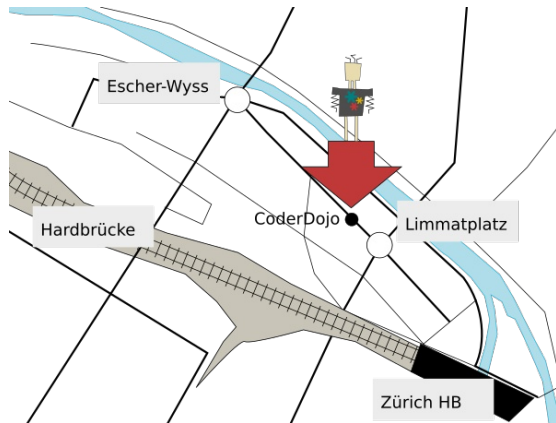


CoderDojo is a free programming club for kids and teenagers between 7 and 17.

CoderDojo encourages independent learning through work on projects, mutual assistance, and creation of innovative projects.



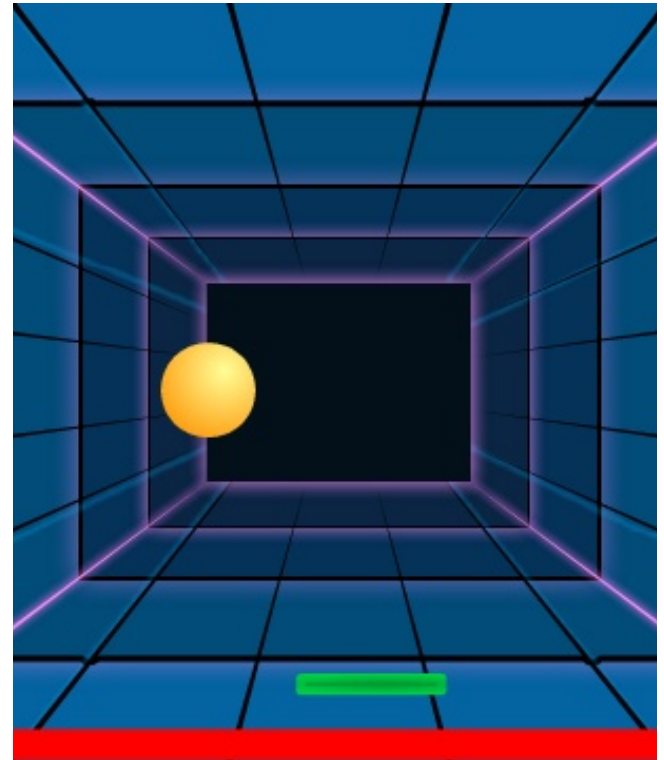
Every Sunday, 15:00 - 17:00 @ Liip

Limmatstrasse 183
8048 Zürich
<http://coderdojzh.ch>

Pong game

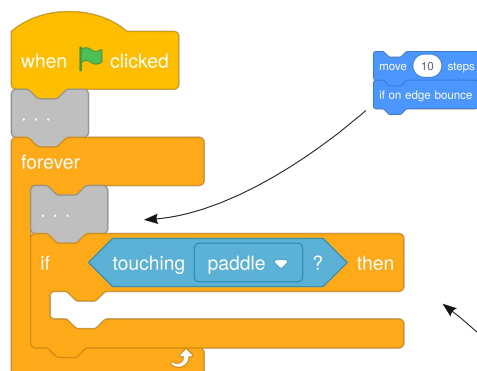


Move the paddle left and right. Prevent the ball from touching the floor.



Programming

The ball should check if it touches the paddle:



When it touches the paddle, it should bounce back.



Pong game



Pong is one of the oldest computer games.

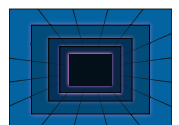
The ball moves on the screen in all directions.

Move the paddle, so that the ball does not touch the floor.

Preparations

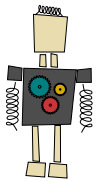
To create the game, you will need:

- a ball
- a paddle
- a floor
- and a cool background



Pick the sprites from the library or draw them yourself.



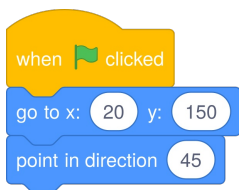


CoderDojo
Zürich

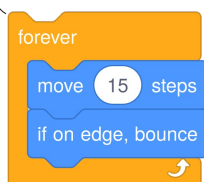
Creative Commons License CC-BY-SA,
Coderdojo Zürich, Ale Rimoldi, Gian-Maria
Daffré.

Programming

After clicking on the green flag,
the ball should go to its
starting position:



Then, the following code will make the ball
move and bounce.



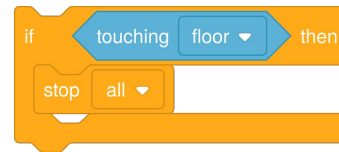
Here we Go!



Click on the green flag and the ball should
start moving in all directions.

Programming

As soon as the ball touches the red floor,
the game should stop.
Add this to the Ball's forever loop:

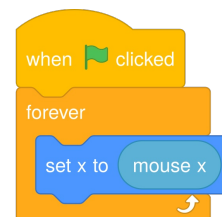


Next steps

- Count the points.
- Use the keyboard to control the paddle.
- Set the ball bounce direction depending
on the side of the paddle that has been
touched - left, center or right (you can
use colors to do it or calculate the x
coordinate).

Programming

Place the paddle at the bottom of the
screen and add the code to move it left
and right.



The paddle
follows the x
coordinates of
the mouse.

Here we Go!



Click on the green flag and, when you
move your mouse, the paddle should start
moving left and right.