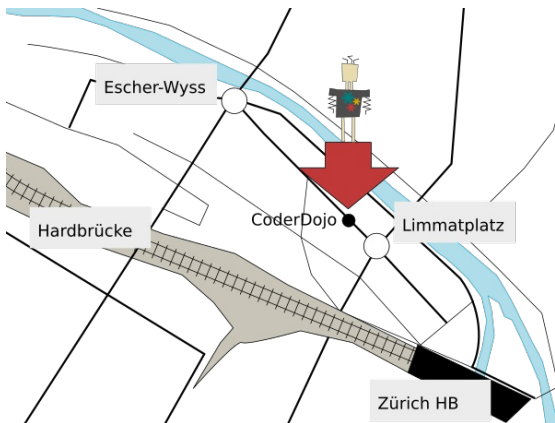**CoderDojo is a free programming club for kids and teenagers between 7 and 17**

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

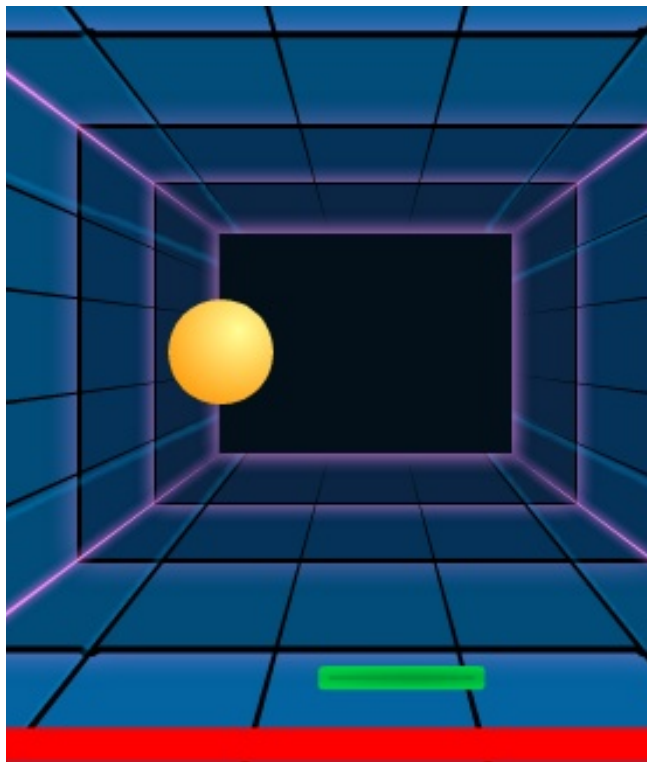

Every Sunday, 15:00 - 17:00 @ Liip

Limmatstrasse 183
8048 Zürich
http://coderdojozh.github.io/

Pong game

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

The ball should check if it touched the paddle

```
when [flag] clicked
forever
  if < touching [paddle ▼] ? > then
  
```

When it touches the paddle, it should bounce back

```
play sound [water drop ▼]
point in direction (pick random (-75) to (75))
move (15) steps
```

Pong game

Pong is one of the oldest computer games.

The ball moves on the screen in all directions.

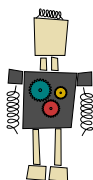Move the paddle, so that the ball does not touch the floor.

To create the game, you will need:
- a ball
- a paddle
- a floor
- and a cool background

New sprite:

Pick the sprites from the library or draw them yourself.

CoderDojo Zürich

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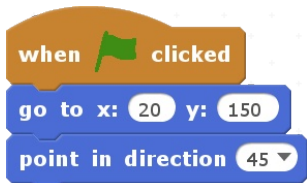Coderdojo Zürich, Ale Rimoldi, Gian-Maria
Daffré.

As soon as the ball touches the red floor, the game should stop

```
if  < touching color [red] ? > then
    stop [all ▼]
```
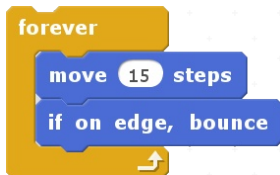
- Count points
- Use keyboard to control the paddle
- Set the ball bounce direction depending on the side of the paddle that has been touched - left, center or right (you can use colors to determine that or calculate x coordinate)

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

```
when 🚩 clicked
go to x: 20 y: 150
point in direction 45 ▼
```

Then the following code will make the ball
moving

```
forever
    move 15 steps
    if on edge, bounce
```
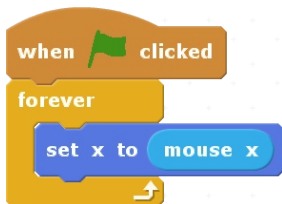
Here we go!

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

The paddle should be placed at the bottom of the screen and move left and right

```
when [flag] clicked
forever
    set x to (mouse x)
```

The paddle follows the x coordinates of the mouse

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