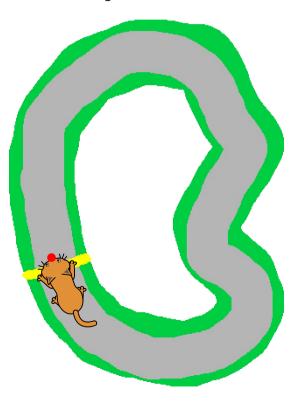
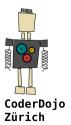
## Car race



Drive the car through the whole track without touching the walls.





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## Car race

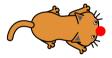


The car rides the track that you draw yourself

When the crash barrier is touched, you must start over.

Preparations

You need a car for the game:



and a track:

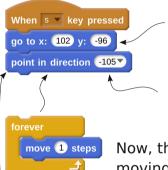


You can create a sprite for the "car" by picking a costume from the library, draw it yourself or adding an image you have downloaded from the internet.
For the track, you can draw it on the backdrop.

## Programming



After pressing the S key, the car should go to the start line.



You should set x and y so that the car is next to the start line.

The direction should make the car point "forward".

Now, the car is ready for moving forward.

If your car is too big to fit the track, you can reduce it's size:

```
set size to 60 %
```

Here we go!



Press the S key and your car should got to the start line and then start to move forward.



And how can you steer the car? Just program the left and right arrow keys to turn it in proper direction.

Now with the arrow keys you can start driving your car.

## Programming



The car should not be able to drive outside the road.

So we check if the green crash barriers have been touched by the car:

```
when s key pressed
go to x: 102 y: -96

point in direction -105 forever

move 1 steps

if touching color then
say Game Over!! for 2 secs
stop this script v
```

Preparation

To recognize the end of the lap, the car needs a colour marker. This marker should be in front of the finish line before start of the game.

We drew a red nose to be the marker.



What is left is to test if the marker has crossed the finish line:

```
play sound meow very say You win !!! for 2 secs
```

At the end of "Repeat forever" loop, we check if the red nose touched the yellow line.

As soon as it happens, the game is over.

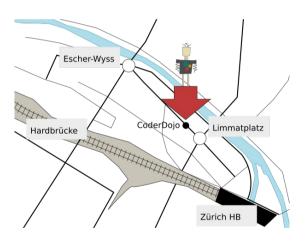
Next steps

There are many possibilities to extend the game:

- count rounds
- measure the time
- let two cars race each other
- and how can you accelerate the car with one key and break with another?

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.ch