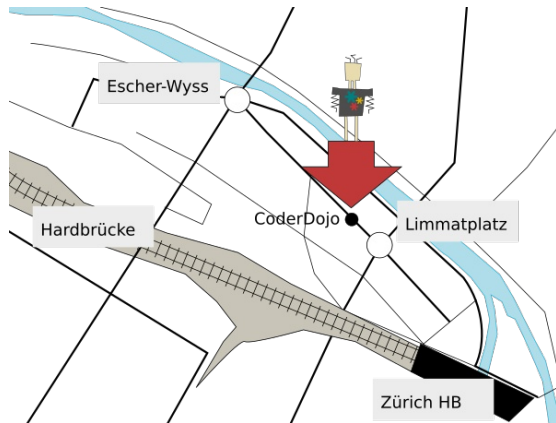


CoderDojo is a free programming club for kids and teenagers between 7 and 17

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>

## 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:



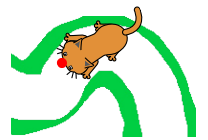
Add this

## Preparation

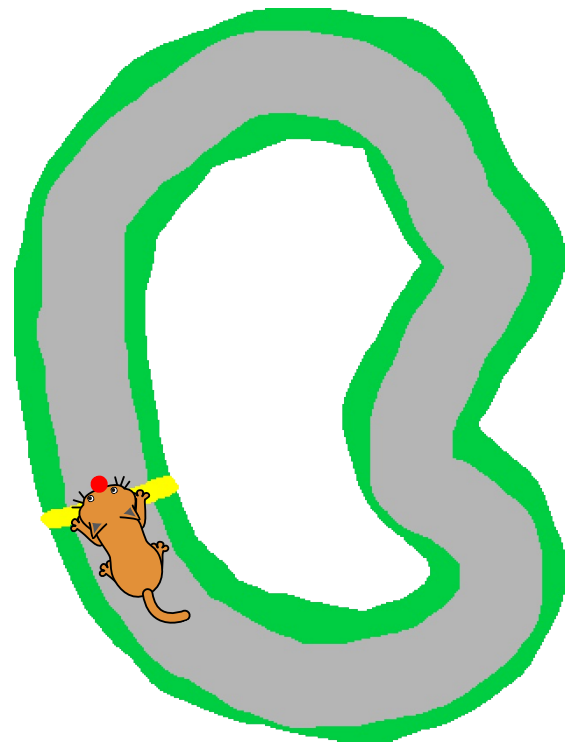
To recognize the end of the lap, the car needs a colour marker. This marker should be in front of the finish line before start of the game.

We drew a red nose to be the marker.

## Car race



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



## Car race

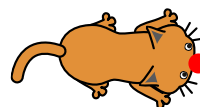


The car rides the track that you draw yourself

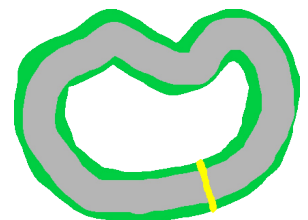
When the crash barrier is touched, you must start over.

## Preparations

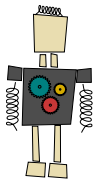
You need a car for the game:



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.



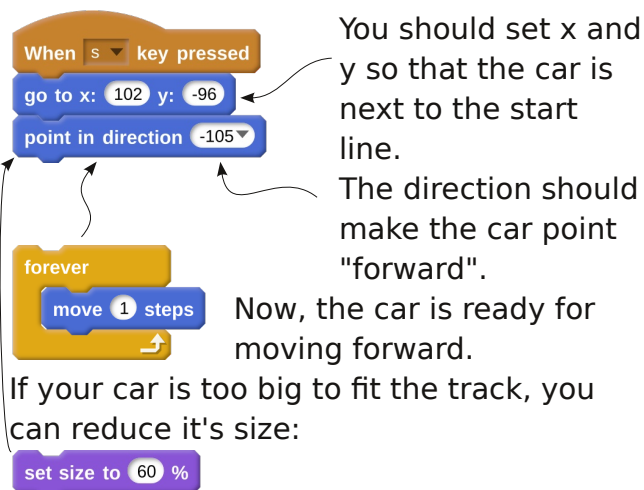
CoderDojo  
Zürich

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Coderdojo Zürich, Ale Rimoldi, Gian-Maria  
Daffré.

Programming



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

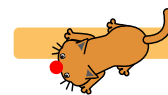


Here we go!

S

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

Programming



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



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

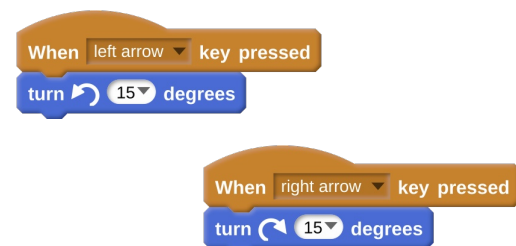
There are many possibilities to extend the game:

- 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?



Programming

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



Here we go!



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