

Cardiff Autonomous Racing TORCS Competition

COMPETITION GUIDELINES

SEE FURTHER BELOW FOR INSTALL GUIDE

Rules:

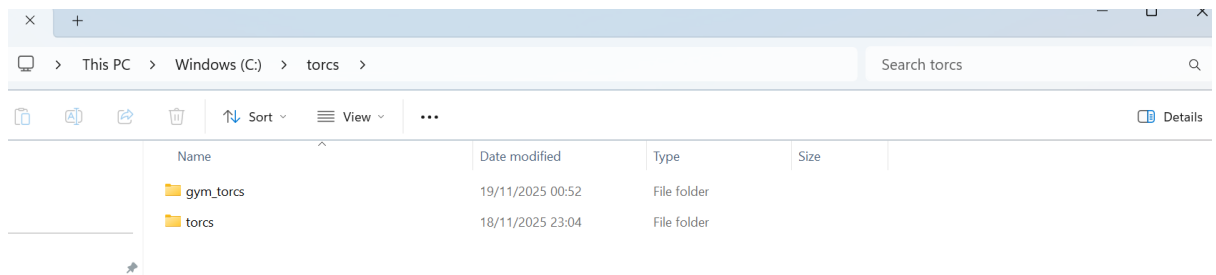
- You must use the track "Corkscrew"
- Your car must complete 3 laps consecutively
- You must start with the provided template
- You may edit, add and remove to this template freely with no restrictions
- Provide a video of your car running, as you explain your solution, no longer than 10 mins
- Submit your video by 1st Dec 2025 via teams message to Morgan Burke (burkem3@cardiff.ac.uk)
- Winner announced 3rd December

INSTALL GUIDE

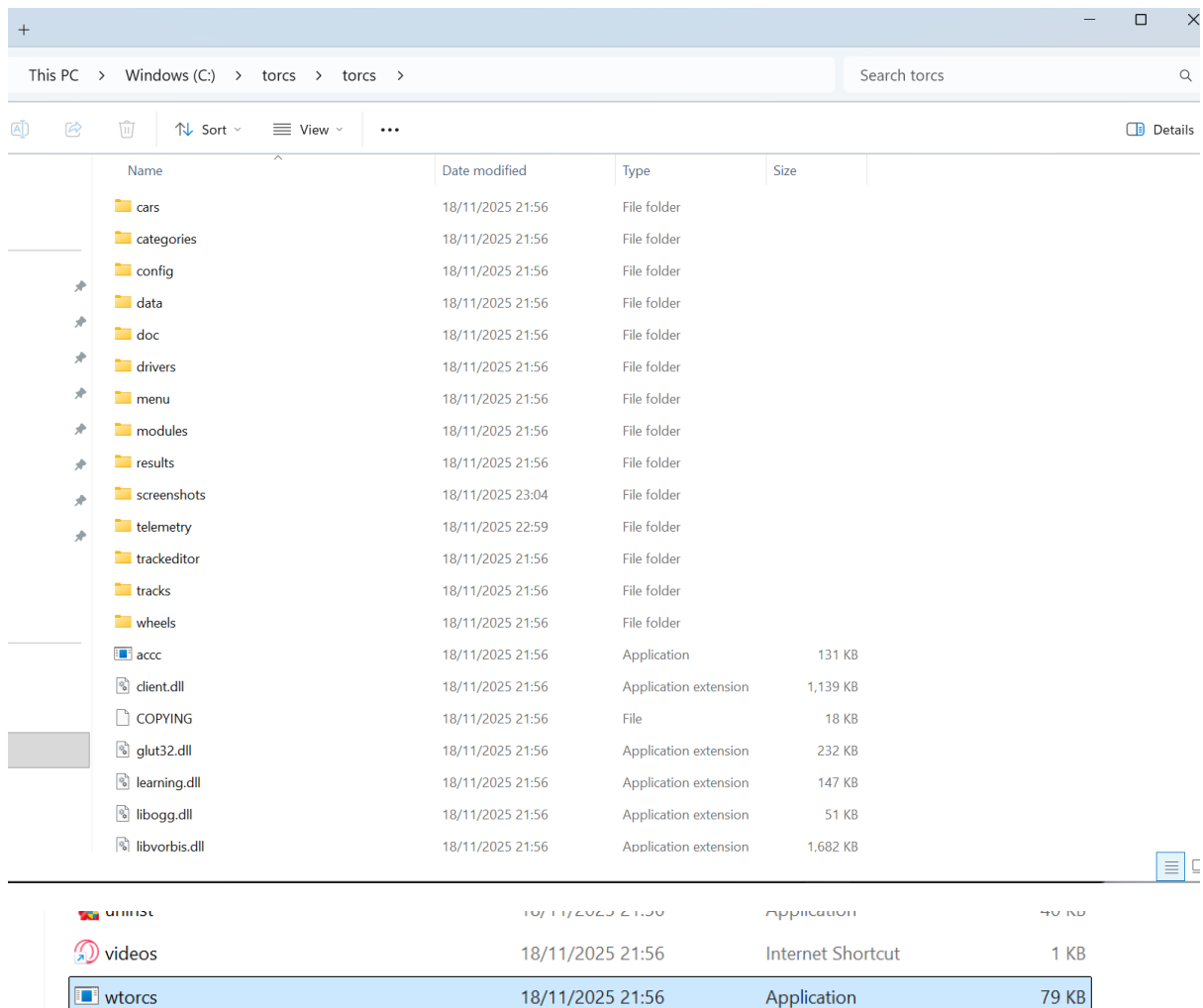
(windows guide sry Linux users xoxo you can still install it tho I just don't know how)

To install and run for the first time follow these steps:

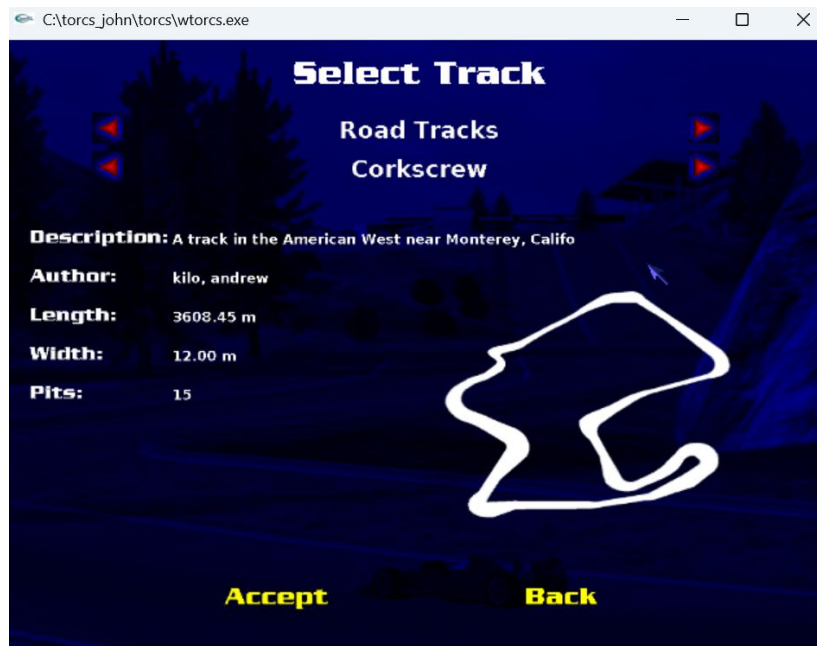
- Ensure you have Python 3.14.0 installed <https://www.python.org/downloads/> Accept defaults - incl Python being added to path
- Install the ZIP from google drive
- Navigate to C:/ (or a root of your choice)
- Create a folder "torcs"
- Unzip the **contents** of torcs_CAR into torcs
- Your directory should look like this:



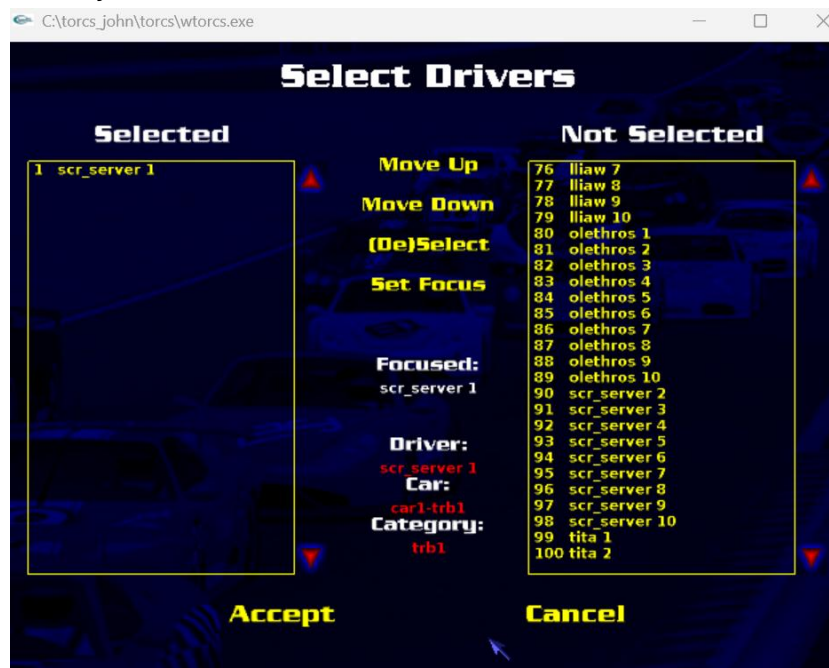
- Navigate to torcs/torcs and run wtorcs.exe



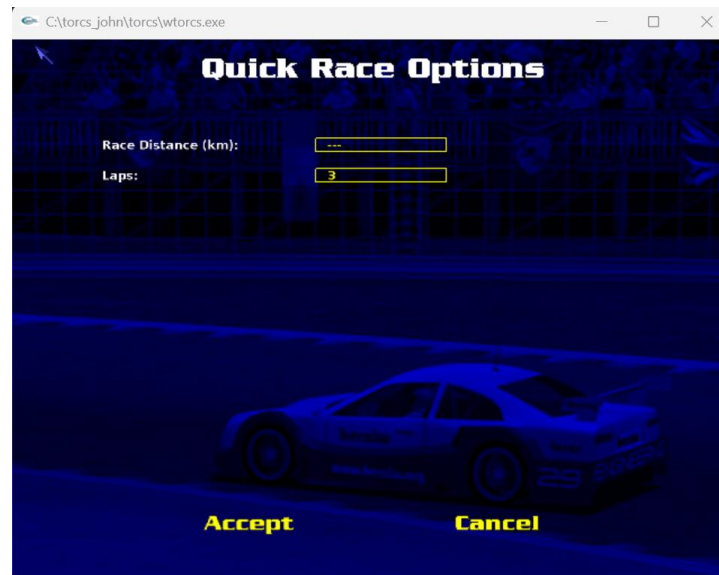
- On the GUI click the following:
 - RACE
 - QUICK RACE
 - CONFIGURE RACE
 - If not already set track to “Corkscrew”



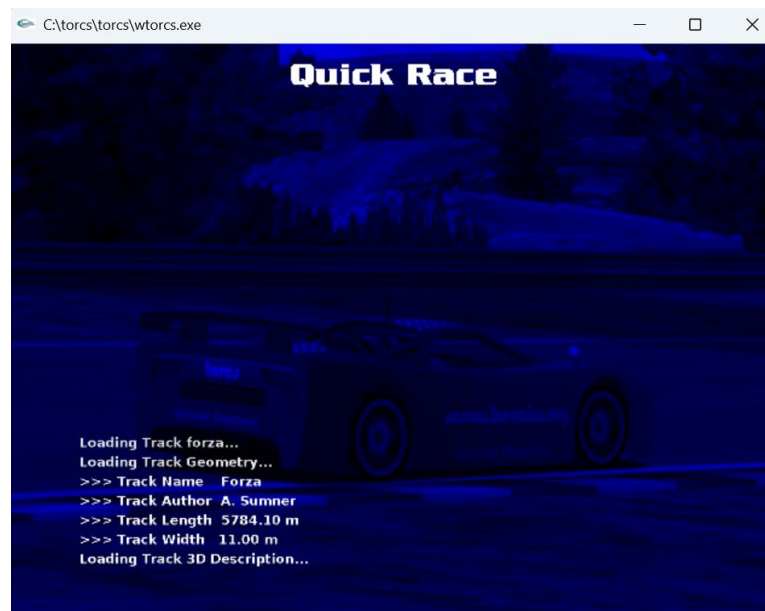
- ACCEPT
- Ensure scr_server 1 is a selected driver, additional drivers can be added for fun to race against AI, or add and configure additional scr_servers to race different solutions you create



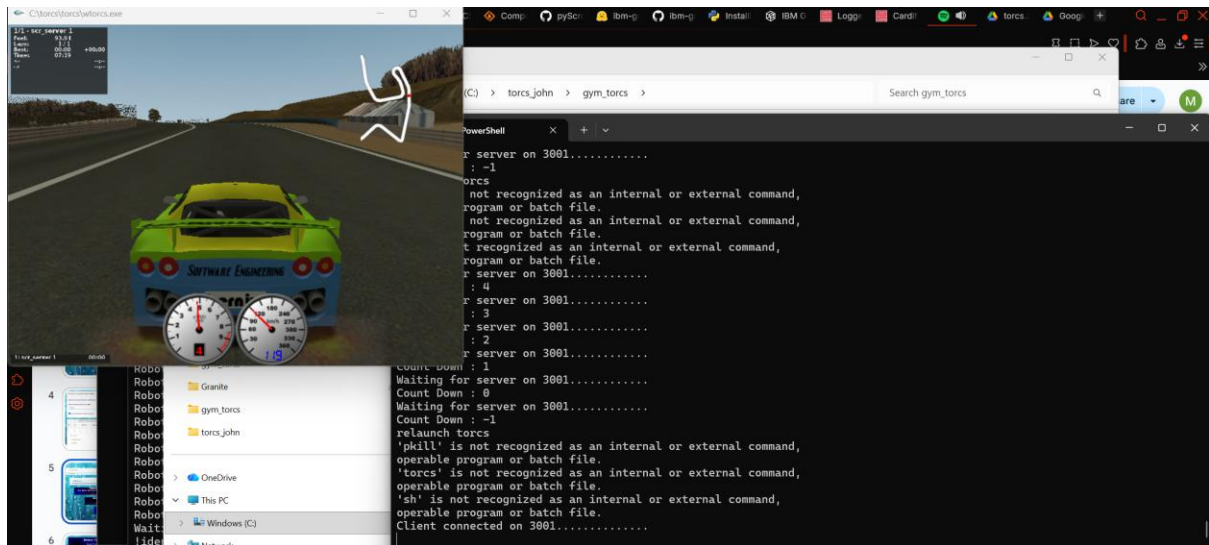
- ACCEPT
- Set LAPS: 3



- ACCEPT
- NEW RACE



- Open PowerShell navigate to C:/torcs/gym_torcs
- Run "python torcs_jm_par.py"



The car should then start racing (and crash...)!

Edit `torcs_jm_par.py` to make the car work, explore other files in `gym_torcs` to try and perfect your AI model.

This is quite a long video but is **SUPER HELPFUL**, I can't recommend it enough, there's also some bits of code you can steal to improve your car!

https://youtu.be/BGOtqXA_y1E?si=ZJYYcTJ_AcOPA4KQ&t=1447