





Tasks

- There are six tasks.
 - Traffic light
 - Road curves
 - Narrowing driving lanes
 - T-junction
 - Roundabout
 - Angled Parking lots
- Please download code from this link.
 - https://cool.ntu.edu.tw/courses/8184/files/1516681/download?download_frd=

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Traffic Light (20pt)

- Start position: -25.59, -49.80
- End position: 78.77, -11.41
- Description:
 - There are two intersections on the path. You need to stop behind stop line when the red light is on.
- Score:
 - 5pt: Always drive in correct lane.
 - 15pt: Follow the traffic light correctly.
 - 3*3pt stop in front of stop line when red.
 - 2*3pt start within 2 second after light turns green.



Traffic Light





Curve Road (15pt)

- Start position: 78.74, -11.37
- End position: 53.64, 61.24
- Description:
 - In this task, you need to turn left and keep in lane
- Score:
 - 5pt: Always drive in correct lane.
 - 10pt: Arrive end position and the heading is perpendicular to the stop line.





Narrowing driving lanes (20pt)

- Start position: 11.41, 50.00
- Narrowing point: -26.40, 36.00
- ► End position: -68.19, 2.09
- Description:
 - You need to change to inner lane and drive to the end position.
- Score:
 - 10pt: Didn't drive to the outside of lanes.
 - 10pt: Arrive end position and the heading is perpendicular to the stop line.



Narrowing driving lanes





T-junction (20pt)

- Start position: -68.59, 2.85
- End position: -42.16, -4.90
- Description:
 - You need to turn left at the intersection, and avoid opposite traffic.
- Score:
 - 8pt: Didn't hit the safety island.
 - 4pt: Arrive end position and the heading is parallel to the lane.
 - 8pt: Avoid opposite traffic.



Safety Island



Roundabout (15pt)

- Start position: 35.66, 24.11
- End position: 34.90, 36.00
- Description:
 - Drive from start position to end position. The direction of roundabout is counterclockwise.
- Score:
 - 5pt: Arrive end position and the heading is parallel to the lane.
 - 5pt: Pass the middle position.
 - 5pt: Always drive in lane.
 - -5pt: Collision. (NPC disappear after 1 second)

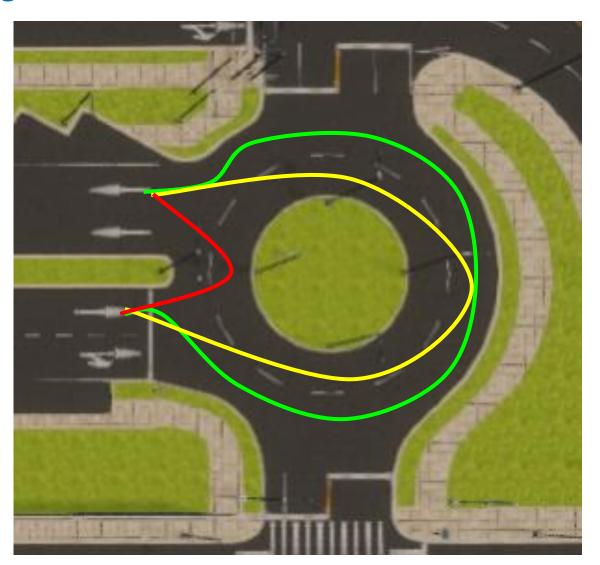


Roundabout

Green: 15pt

► Yellow: 10pt

Red: 5pt







Angled Parking Slots (10pt)

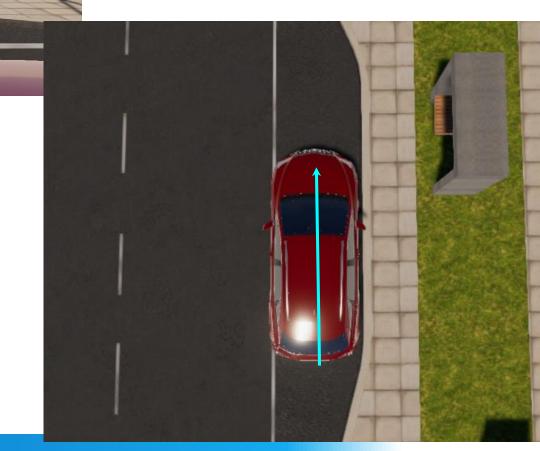
- Start position: 36.0, -38.1
- End position: 33.4, -23.4
- Description:
 - You need to stop the vehicle in a parking slot.
- Score:
 - 5pt: The heading is parallel to the parking slot.
 - 5pt: The vehicle is completely driving outside the lane.





Park in green area: 5pt

Correct heading: 5pt



Demo

- ► Date: 1/11, 1/18 or 1/25
- Place: TBA.
- Bring your laptop to the classroom or use TeamViewer to control your PC remotely.
- You need to record a video during the demo or let TA record it by TeamViewer.
- You can also prepare a video of your best tried.

