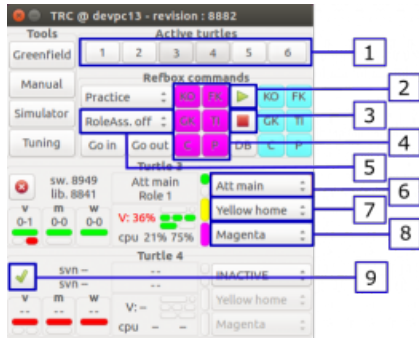# TRC Manual

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Open the TRC and start Greenfield3D, you are now able to control the robot! In this manual the most important buttons are explained for a demonstration with the soccer robots.

General

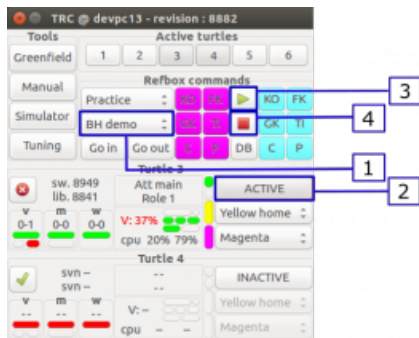The list below corresponds with the numbers in the first Figure.

1. Buttons to activate the robots in the TRC

2. Play

3. Stop, also the key 's' on the keyboard works, make sure you have always one finger on this button in case of emergency

4. Refbox tasks, KO: Kick Off, FK: Free Kick, GK: Goal Kick, TI: Trow In, C: Corner, P: Penalty

5. Beneath this button some actions can be chosen, RoleAss.off, RoleAss.on, Penalties, BH demo.

6. Role selection, Att main, att assist, etc.

7. Home goal, Yellow and Blue

8. Team color, Magenta and Cyaan

9. Button to activate the robot's software

Before starting with the demonstrations below you have to activate the robots in the TRC with button 1 and activate the robot's software with button 9.

Tip 1: If you want to show the audience the view of the robot in the greenfield you have to click on the greenfield screen and press 1,2,3 or 4 on your keyboard (depending which view of the robot you want to show)

Tip 2: If you want to rotate the screen or anything else, click on the greenfield screen and press f1, now you get a information screen
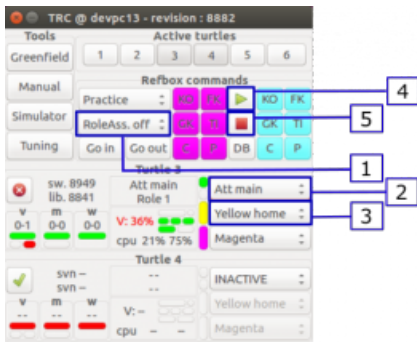
Ball handling system

Make sure the robot is in field, by switching the second button on the robot itself.

1. Select the BH demo button

2. Click on 'INACTIVE', it will change to 'ACTIVE'

3. To start the demo click on 'Start'
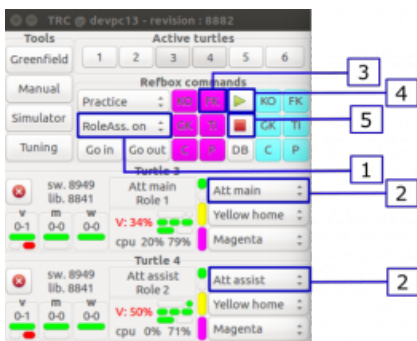
4. To stop the demo click on 'Stop'

Roles

1. Select 'RoleAss. off', make sure it is '''off''' and not '''on'''!!

2. First role is Goalkeeper

3. Select the right goal color

4. Click on the play button to start the role

5. Click on the stop button to stop the robot

Now repeat step 2 till 5 for Def. Assist, Att. Main. For Att. Main you should choose the other color as for the Goalkeeper and Def. Assist.
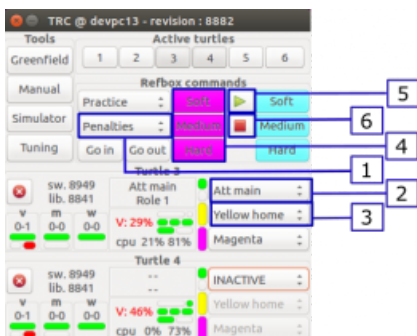
Refbox tasks

1. Select 'RoleAss. on', make sure it is '''on''' and not '''off'''!!

2. For a freekick, select for one robot 'Att. Main' and the second robot 'Att. Assist'

3. Select the right goal color

4. Click on 'FK' to show a Free Kick, now the robots will go into position, wait for the next step untill they are stand stabile

5. Click on the play button to start the free kick

6. Click on the stop button to stop the robots

Now repeat step 2 till 5 for 'Def. Assist' and 'Att. Main'. For Att. Main you should choose the other color as for the Goalkeeper and Def. Assist.

Penalties

1. Select 'Penalties'

2. Make one robot 'Att. main', and make sure the others are 'INACTIVE'

3. Check the goal color and size (See the description below next to figure 6)

4. Choose 'Soft' for really small children and 'Hard' to impress people! If you click on these buttons the robot will go into position.

5. Click on the Play button to start the penalty

6. After shooting click on the Stop button

TRC1.png (58 KB) 🗑 Wouter Kuijpers, 04/07/2018 12:33 PM

TRC3.png (57.5 KB) 🗑 Wouter Kuijpers, 04/07/2018 12:33 PM

TRC4.png (64.6 KB) 🗑 Wouter Kuijpers, 04/07/2018 12:33 PM
TRC5.png (59 KB) 🗑 Wouter Kuijpers, 04/07/2018 12:33 PM
TRC2.png (59.9 KB) 🗑 Wouter Kuijpers, 04/07/2018 12:33 PM