

SPQR Team - Homework 2017

1.A Install the software (<https://github.com/SPQRTeam/spqrnao2017b/wiki>)

1.B Create a new Representation and a new Module: the update function of the module has to display:

- the robot pose $\langle x, y, \theta \rangle$;
- the ball position $\langle x, y \rangle$ (both relative and global);
- joints value;

2.A Filter the ball perception and make the robot disregard balls that are more than 2 meters away from the robot;

2.B Use the previously written module to save some images acquired from the camera;

3.A Write a behaviour that makes the robot “WalkTo” the ball;

3.B Extend the previous behaviour and make the robot walk around the ball;

4.A Write a striker behavior that makes the robot kicking the ball towards its own goal;

4.B Test everything simulating two robots (striker and goalie).