

Features List

Own or modified features

Feature Name	Feature Description
SimRobot	Sim Robot is a Simulation Software for Naos which not just shows the position of the Robot, it also simulates if a button is pressed or the camera input. It is mostly used to test new code or for deep learning in the field recognition.
Replay	Is a tool which saves every data of a robot during the game. These files can be used to replay the match in the SimRobot or on the real naos, to see what went wrong or to look for improvements.
Install Script	A shell script which installs all apt packages which are needed for the framework and the SimRobot to work, executes the install script of the Sim Robot and compile the code the first time.
Mate	A program with a GUI which shows the actual Position of the NAO (where the NAO thinks he is), the Camera of the NAO, the Memory of the NAO and the Log.

Features from the Framework

Feature Name	Feature Description
Rainbow Eyes	When the program is running the Robot has Rainbow eyes which are rotating to show that he is executing code.
Game Controller 2018 Reactions	The Software reacts on the Signals from the Game Controller 2018, like penalties or the starting procedure.
Football Gameplay	The Software is able to let the naos play football, which includes Strategies, kicks and coordination.
Roles	Every Robot on the field gets a Role which depends on the position of the Robot and the teamstatus.
Fast Walking	The walking in the Software is optimized for walking on artificial grass as fast as possible.
Battery Status	The LED next to the tactile Sensor on the Head always show the actual battery charge.
Colored Eyes	During the Game the Eyes show the actual Status of the Nao (Whether he's a defender or scorer, and if he's found the ball or he's looking for it).