

Ros-test Documentation

By Philip Berndt

Errors

First I tried to build the test package but Cmake threw an error that there is a run dependency missing which I fixed by adding the joy dependency in the package.xml.

Then I tried running the test.launch but that couldn't find the main nodes which was a typo. By removing the "s" at the end I could launch the file.

The next problem was that the 2 nodes, main and turtlesim didn't communicate at all. By checking rqt graph that was confirmed. The fix for that was to change the subscribing and publishing messages to /turtle1/... .

Finally the last problem was that the turtle was not doing the respective forms. For the square the problem was that the turtle did only half of it. That was easily fixed by changing the increment in the loop to +1 each iteration. The infinity loop functioned relatively good, I just improved the form somewhat by adding additional movements.

Task Solution

To let the turtle draw the "Haus vom Nikolaus", I used, like the other 2 programs the framework provided by "turtle-abstract.h". I looked up a solution for how to draw the "Haus vom Nikolaus" and then programed each step with the framework functions "turtle.forward()" and "turtle.rotate()".

For the distances I used 3 for each side of the square like in the square program and used 2*3 for the diagonals. 1.5 was used for the sides of the roof and for the rotations a minus for a clockwise rotation.