# Introduction to Robotics, Prof. Goehring, WS 21/22 Ina Fendel, Thore Brehmer & David Ly

### Aufgabe 1-1

Screenshots der Installation ROS Noetic

```
Setting up ros-noetic-robot (1.5.0-lfocal.20211007.214625) ...

Setting up ros-noetic-rqt-common-plugins (0.4.9-lfocal.20211007.220330) ...

Setting up ros-noetic-perception (1.5.0-lfocal.20211007.215902) ...

Setting up ros-noetic-viz (1.5.0-lfocal.20211007.220408) ...

Setting up ros-noetic-desktop (1.5.0-lfocal.20211007.220451) ...

Setting up ros-noetic-simulators (1.5.0-lfocal.20211007.220413) ...

Setting up ros-noetic-desktop-full (1.5.0-lfocal.20211007.220535) ...

Processing triggers for libc-bin (2.31-0ubuntu9.2) ...

ani@ani-ThinkPad-T470:~$ echo "source /opt/ros/noetic/setup.bash" >> ~/.bashrc

ani@ani-ThinkPad-T470:~$ source ~/.bashrc
```

Screenshots des Durchführens der Tutorials & Festlegen von Umgebungsvariablen

```
ani@ani-ThinkPad-T470:~$ printenv | grep ROS
ROS_VERSION=1
ROS_PYTHON_VERSION=3
ROS_PACKAGE_PATH=/opt/ros/noetic/share
ROSLISP_PACKAGE_DIRECTORIES=
ROS_ETC_DIR=/opt/ros/noetic/etc/ros
ROS_MASTER_URI=http://localhost:11311
ROS_ROOT=/opt/ros/noetic/share/ros
ROS_DISTRO=noetic
```

```
ani@ani-ThinkPad-T470:~$ mkdir -p ~/catkin_ws/src
ani@ani-ThinkPad-T470:~$ cd ~/catkin_ws/
ani@ani-ThinkPad-T470:~/catkin_ws$ catkin_make
Base path: /home/ani/catkin_ws
Source space: /home/ani/catkin_ws/src
Build space: /home/ani/catkin_ws/build
Devel space: /home/ani/catkin_ws/devel
Install space: /home/ani/catkin ws/install
```

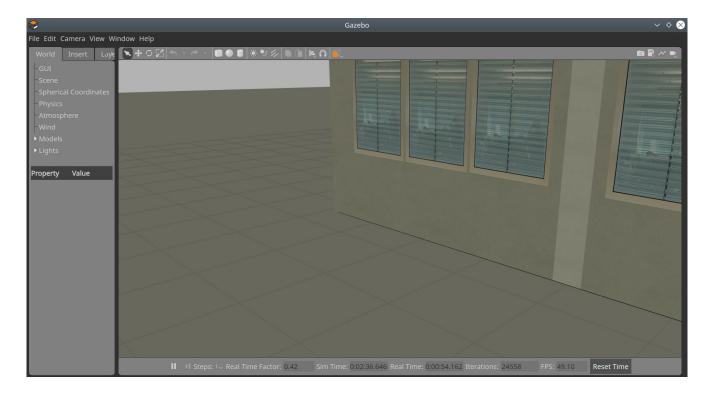


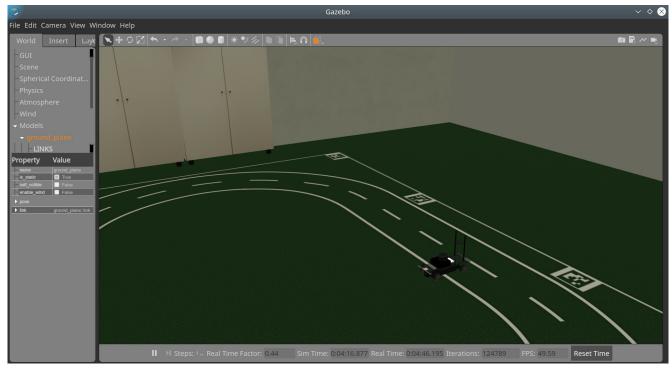
#### Ausführen von roscore

```
ani@ani-ThinkPad-T470:~$ roscore
... logging to /home/ani/.ros/log/c6fbaba6-336a-11ec-99d6-e9b2
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.
started roslaunch server http://ani-ThinkPad-T470:42469/
ros comm version 1.15.13
SUMMARY
_____
PARAMETERS
* /rosdistro: noetic
 * /rosversion: 1.15.13
NODES
auto-starting new master
process[master]: started with pid [55680]
ROS MASTER URI=http://ani-ThinkPad-T470:11311/
setting /run_id to c6fbaba6-336a-11ec-99d6-e9b2e03889ab
process[rosout-1]: started with pid [55693]
started core service [/rosout]
```

## Aufgabe 1-2

Screenshots des Simulators





# Aufgabe 1-3

https://git.imp.fu-berlin.de/thob97/thornavid