

Chapter One: NEOR in Farm

Step 1: Install dependence packages

Open a Terminal && download codes

git clone https://github.com/COONEO/neor_farm.git cd neor_farm/neor_ws/

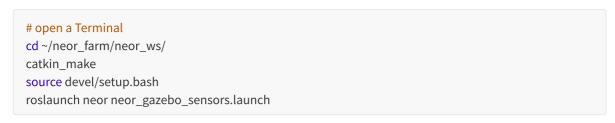
#install ros dependence packages

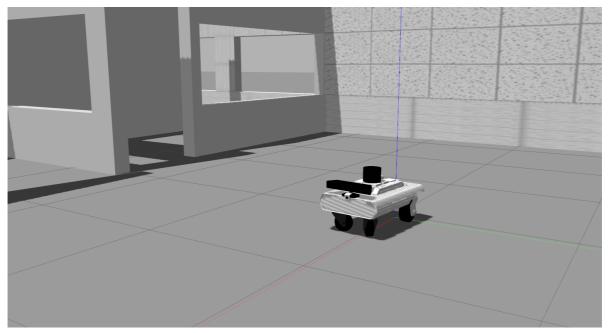
rosdep install --from-paths src --ignore-src --rosdistro=melodic -y

change crop_follow_object.py file's permissions,like this:s allow this file as a execute file.

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Step 2: Visual NEOR URDF in Gazebo

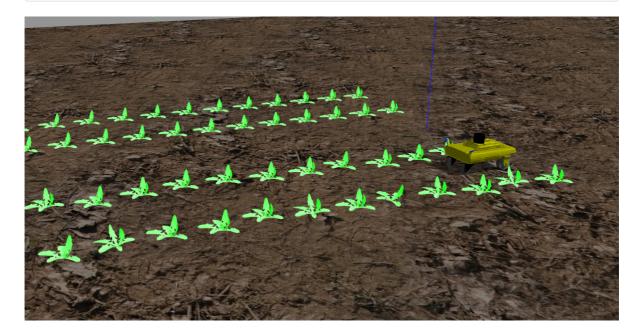




Step 3: Visual NEOR in Crop Gazebo World

```
# open a Terminal
# copy models from neor_crop_follow/gazebo_models files into .gazebo/models folder.
mkdir ~/.gazebo/models
cd ~/neor_farm/neor_ws/src/neor_crop_follow/gazebo_models
cp -r * ~/.gazebo/models/

# compile and launch node
cd ~/neor_farm/neor_ws/
catkin_make
source devel/setup.bash
roslaunch neor_crop_follow gazebo_farm_land.launch
```

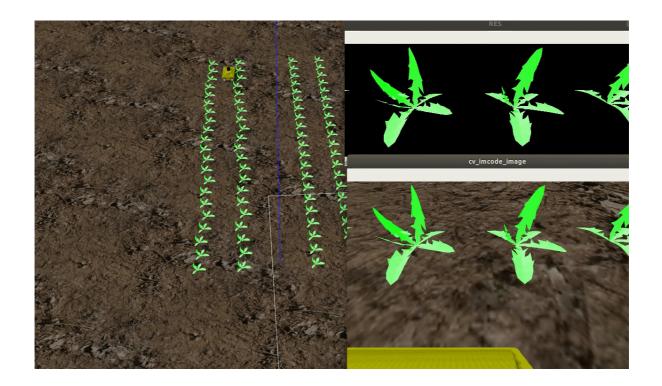


Run camera image detect python node.

open another Terminal

cd ~/neor_farm/neor_ws/
catkin_make
source devel/setup.bash

rosrun neor_crop_follow crop_follow_object.py # remember enable execute permission



Chapter Two: Gmapping and **Navigation**

Step 1: NEOR ROS Gmappings

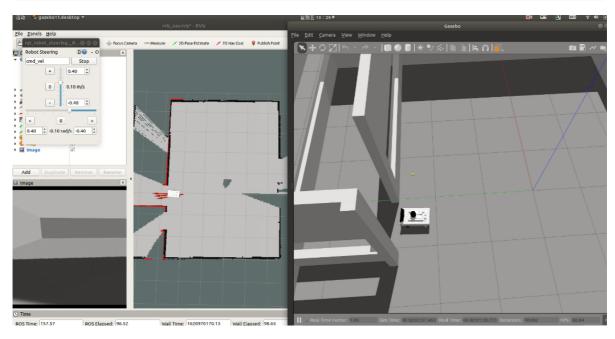
open another Terminal

cd ~/neor_farm/neor_ws/

catkin_make

source devel/setup.bash

roslaunch neor_gmapping ekf_gmapping.launch



Save map file in: "~/neor_farm/neor_ws/src/neor_navigation/map/" folder.

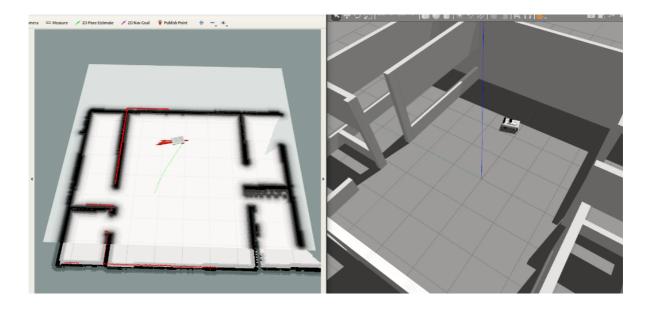
#open a new Terminal

cd ~/neor_farm/neor_ws/src/neor_navigation/map
rosrun map_server map_saver -f map

Step 2:NEOR ROS Navigation

open another Terminal

cd ~/neor_farm/neor_ws/
catkin_make
source devel/setup.bash
roslaunch neor_navigation nav_test.launch



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