

File Edit View Search Terminal Help

```
noorubuntu@noorubuntu-VirtualBox:~$ sudo apt-get install ros-melodic-joy ros-melodic-teleop-twist-joy
```

```
[sudo] password for noorubuntu:
```

```
Reading package lists... Done
```

```
Building dependency tree
```

```
Reading state information... Done
```

```
The following packages were automatically installed and are no longer required:
```

```
linux-headers-5.4.0-42-generic linux-hwe-5.4-headers-5.4.0-42
```

```
linux-image-5.4.0-42-generic linux-modules-5.4.0-42-generic
```

```
linux-modules-extra-5.4.0-42-generic python3-click python3-colorama
```

```
Use 'sudo apt autoremove' to remove them.
```

```
The following additional packages will be installed:
```

```
evemu-tools evtest joystick libevemu3
```

```
The following NEW packages will be installed:
```

```
evemu-tools evtest joystick libevemu3 ros-melodic-joy
```

```
ros-melodic-teleop-twist-joy
```

```
0 upgraded, 6 newly installed, 0 to remove and 14 not upgraded.
```

```
Need to get 176 kB of archives.
```

```
After this operation, 720 kB of additional disk space will be used.
```

```
Do you want to continue? [Y/n] y
```

```
Get:1 http://sa.archive.ubuntu.com/ubuntu bionic/universe amd64 libevemu3 amd64 2.6.0-0.1 [12.2 kB]
```

```
Get:2 http://sa.archive.ubuntu.com/ubuntu bionic/universe amd64 evemu-tools amd64 2.6.0-0.1 [12.7 kB]
```

```
noorubuntu@noorubuntu-VirtualBox:~$ sudo apt-get install ros-melodic-turtlebot3-msgs
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  linux-headers-5.4.0-42-generic linux-hwe-5.4-headers-5.4.0-42
  linux-image-5.4.0-42-generic linux-modules-5.4.0-42-generic
  linux-modules-extra-5.4.0-42-generic python3-click python3-colorama
Use 'sudo apt autoremove' to remove them.
The following NEW packages will be installed:
  ros-melodic-turtlebot3-msgs
0 upgraded, 1 newly installed, 0 to remove and 14 not upgraded.
Need to get 22.4 kB of archives.
After this operation, 202 kB of additional disk space will be used.
Get:1 http://packages.ros.org/ros/ubuntu bionic/main amd64 ros-melodic-turtlebot3-msgs amd64 1.0.1-1bionic.20210505.012107 [22.4 kB]
Fetched 22.4 kB in 1s (26.6 kB/s)
Selecting previously unselected package ros-melodic-turtlebot3-msgs.
(Reading database ... 293930 files and directories currently installed.)
Preparing to unpack .../ros-melodic-turtlebot3-msgs_1.0.1-1bionic.20210505.012107_amd64.deb ...
Unpacking ros-melodic-turtlebot3-msgs (1.0.1-1bionic.20210505.012107) ...
Setting up ros-melodic-turtlebot3-msgs (1.0.1-1bionic.20210505.012107) ...
noorubuntu@noorubuntu-VirtualBox:~$ sudo apt-get install ros-melodic-turtlebot3
Reading package lists... Done
Building dependency tree
```


noorubuntu@noorubuntu-VirtualBox: ~/catkin_ws

File Edit View Search Terminal Help

```
noorubuntu@noorubuntu-VirtualBox:~$ echo "export TURTLEBOT3_MODEL=waffle_pi" >>
~/.bashrc
noorubuntu@noorubuntu-VirtualBox:~$ cd ~/catkin_ws/src/
noorubuntu@noorubuntu-VirtualBox:~/catkin_ws/src$ git clone -b melodic-devel htt
ps://github.com/ROBOTIS-GIT/turtlebot3_simulations.git
Cloning into 'turtlebot3_simulations'...
remote: Enumerating objects: 2794, done.
remote: Counting objects: 100% (409/409), done.
remote: Compressing objects: 100% (158/158), done.
remote: Total 2794 (delta 236), reused 376 (delta 224), pack-reused 2385
Receiving objects: 100% (2794/2794), 15.34 MiB | 798.00 KiB/s, done.
Resolving deltas: 100% (1602/1602), done.
noorubuntu@noorubuntu-VirtualBox:~/catkin_ws/src$ cd ~/catkin_ws && catkin_make
Base path: /home/noorubuntu/catkin_ws
Source space: /home/noorubuntu/catkin_ws/src
Build space: /home/noorubuntu/catkin_ws/build
Devel space: /home/noorubuntu/catkin_ws/devel
Install space: /home/noorubuntu/catkin_ws/install
####
#### Running command: "cmake /home/noorubuntu/catkin_ws/src -DCATKIN_DEVEL_PREFI
X=/home/noorubuntu/catkin_ws/devel -DCMAKE_INSTALL_PREFIX=/home/noorubuntu/catki
n_ws/install -G Unix Makefiles" in "/home/noorubuntu/catkin_ws/build"
####
-- Using CATKIN_DEVEL_PREFIX: /home/noorubuntu/catkin_ws/devel
```

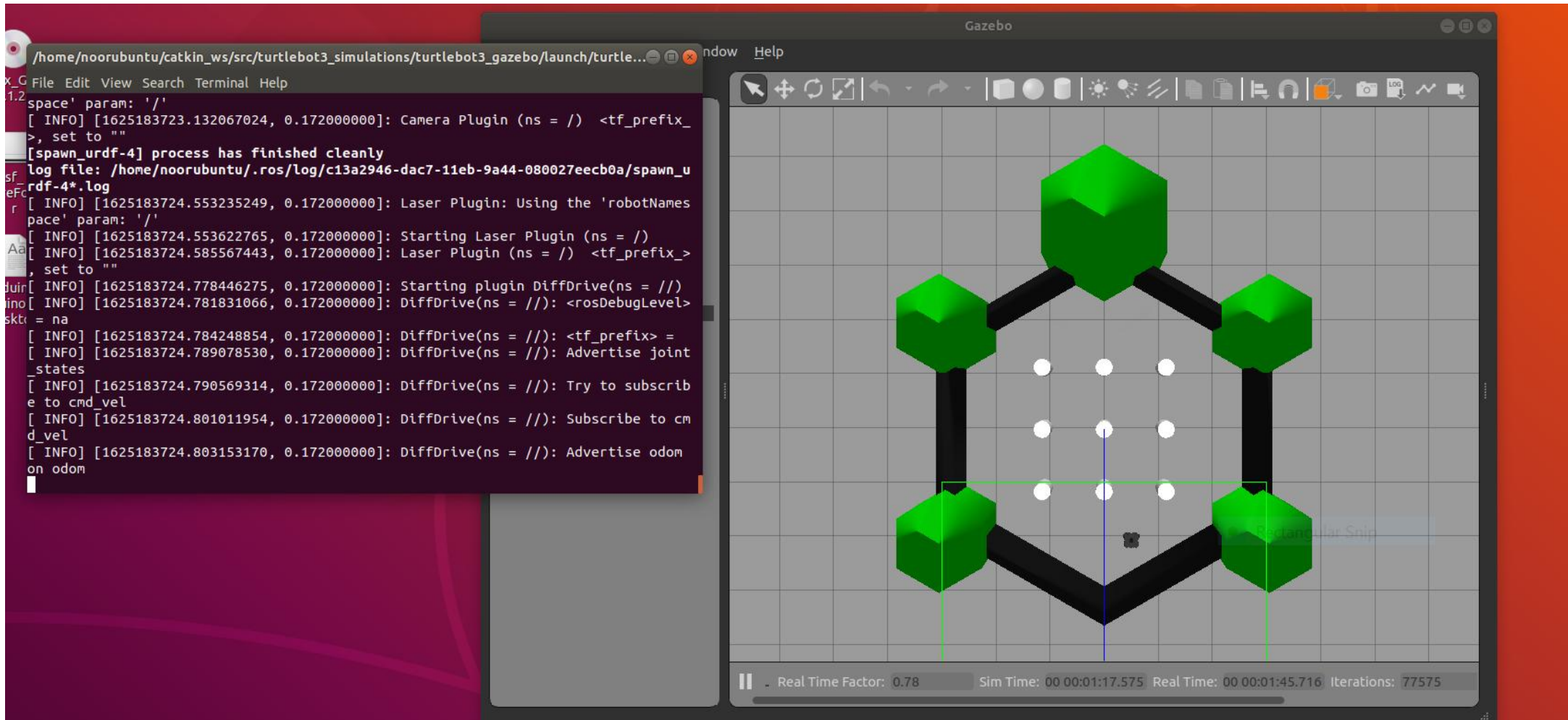
```
/home/noorubuntu/catkin_ws/src/turtlebot3_simulations/turtlebot3_gazebo/launch/turtle...
File Edit View Search Terminal Help
noorubuntu@noorubuntu-VirtualBox:~/catkin_ws$ export TURTLEBOT3_MODEL=waffle_pi
noorubuntu@noorubuntu-VirtualBox:~/catkin_ws$ roslaunch turtlebot3_gazebo turtle
bot3_world.launch
... logging to /home/noorubuntu/.ros/log/c13a2946-dac7-11eb-9a44-080027eecb0a/ro
slaunch-noorubuntu-VirtualBox-7894.log
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://noorubuntu-VirtualBox:33533/

SUMMARY
=====

PARAMETERS
* /gazebo/enable_ros_network: True
* /robot_description: <?xml version="1....
* /roscdistro: melodic
* /rosversion: 1.14.11
* /use_sim_time: True

NODES
/
  gazebo (gazebo_ros/gzserver)
```

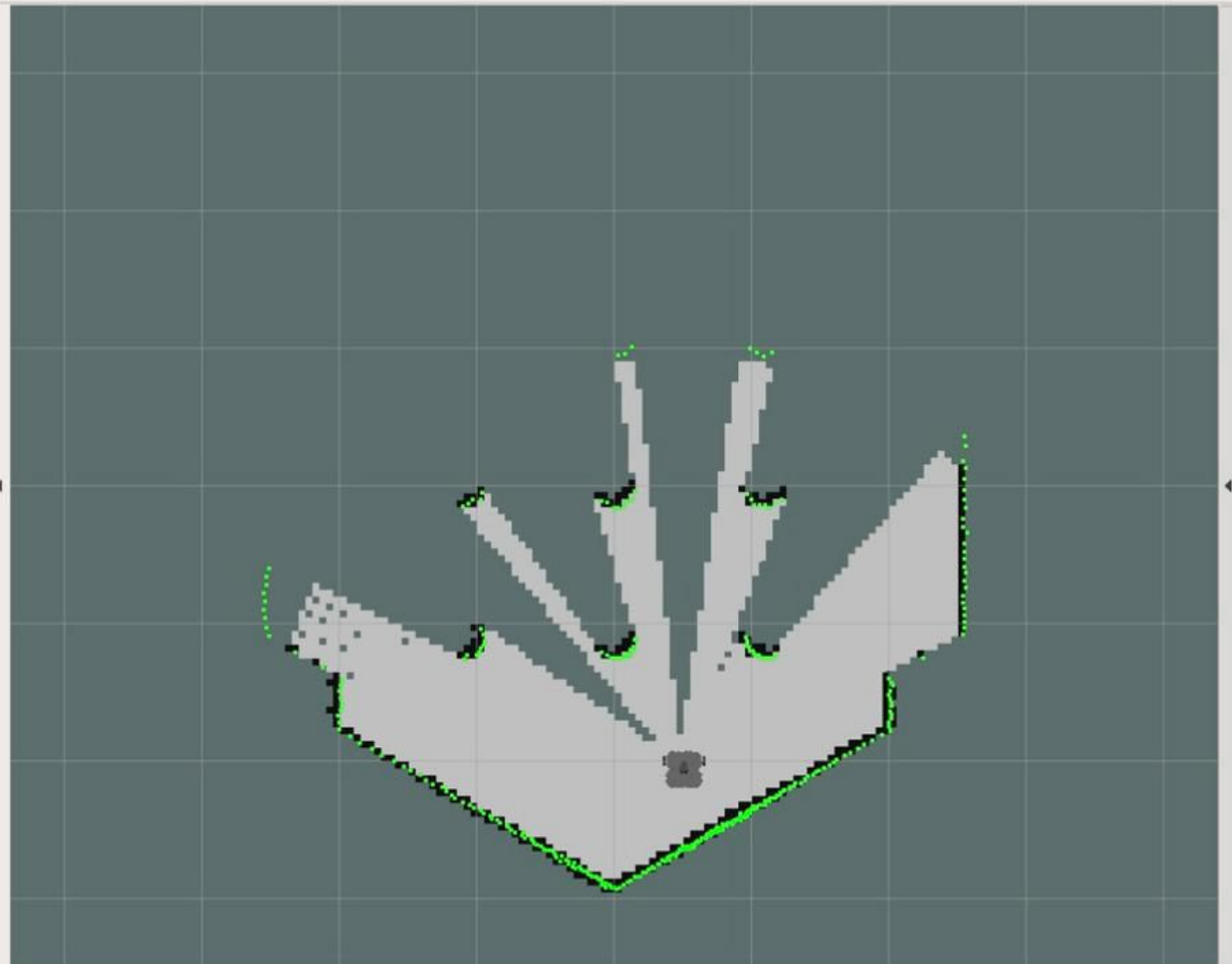


File Panels Help

Interact Move Camera Select Focus Camera Measure 2D Pose Estimate 2D Nav Goal Publish Point

Displays

- Global Options
- Global Status: Ok
- Grid ☒
- RobotModel ☒
- TF ☐
- LaserScan ☒
- Image ☐
- Map ☒
 - Status: Ok
 - Topic /map
 - Alpha 0.5
 - Color Scheme map
 - Draw Behind ☐
 - Resolution 0.05
 - Width 384
 - Height 384
 - Position -10; -10; 0
 - Orientation 0; 0; 0; 1
 - Unreliable ☐
 - Use Timestamp ☐



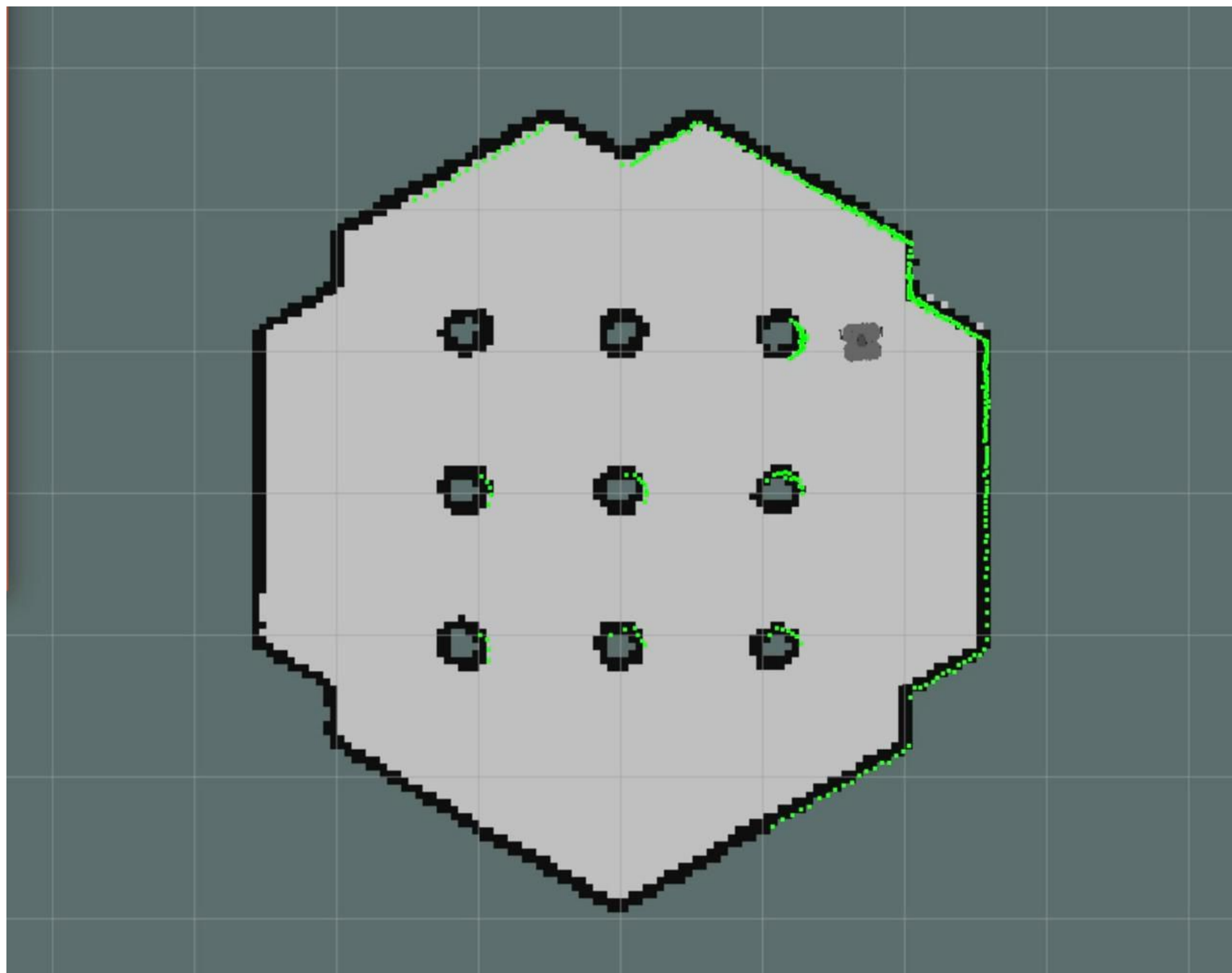
Add

Duplicate

Remove

Rename

Time



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map.pgm

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