

## Simulate Kobuki in Linux(Ubuntu)

The package is used to simulate the moving, sensing and navigation system with RVIZ in PC.

## Installation

The package of the simulator is provided in github, we can also get it using kobuki.rosinstall file.

So the first step is get it from the Internet:

```
> rosinstall .  
https://raw.githubusercontent.com/yujinrobot/kobuki/hydro-devel/kobuki.rosinstall
```

Then create a catkin workspace by the catkin\_init\_workspace (with a src/ folder in it). Copy the downloaded files into the workspace.

In the root folder of the workspace, we can make the project by catkin\_make.

```
> catkin_make
```

Add the workspace into ROS path:

```
> source devel/setup.bash
```

Start the simulation:

```
> roslaunch kobuki_softnode full.launch
```

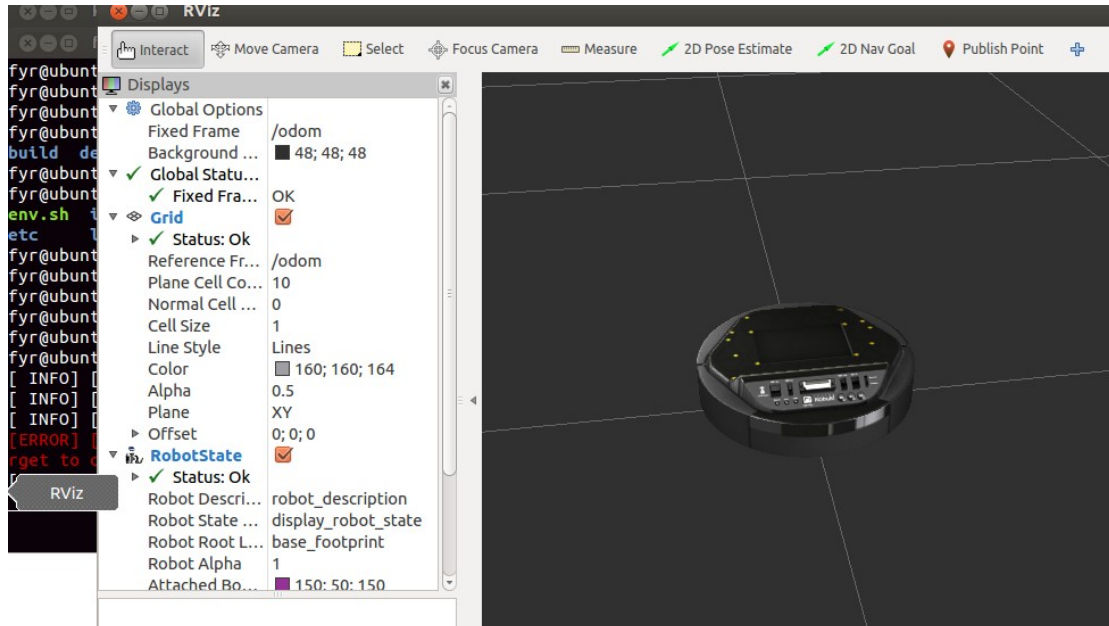
Check out the topic:

```
> rostopic list
```

We can check it out in RVIZ:

```
> rosrn rviz rviz
```

The snapshot:



## An navigation example

It is an example in RVIZ which provide a graphic display.

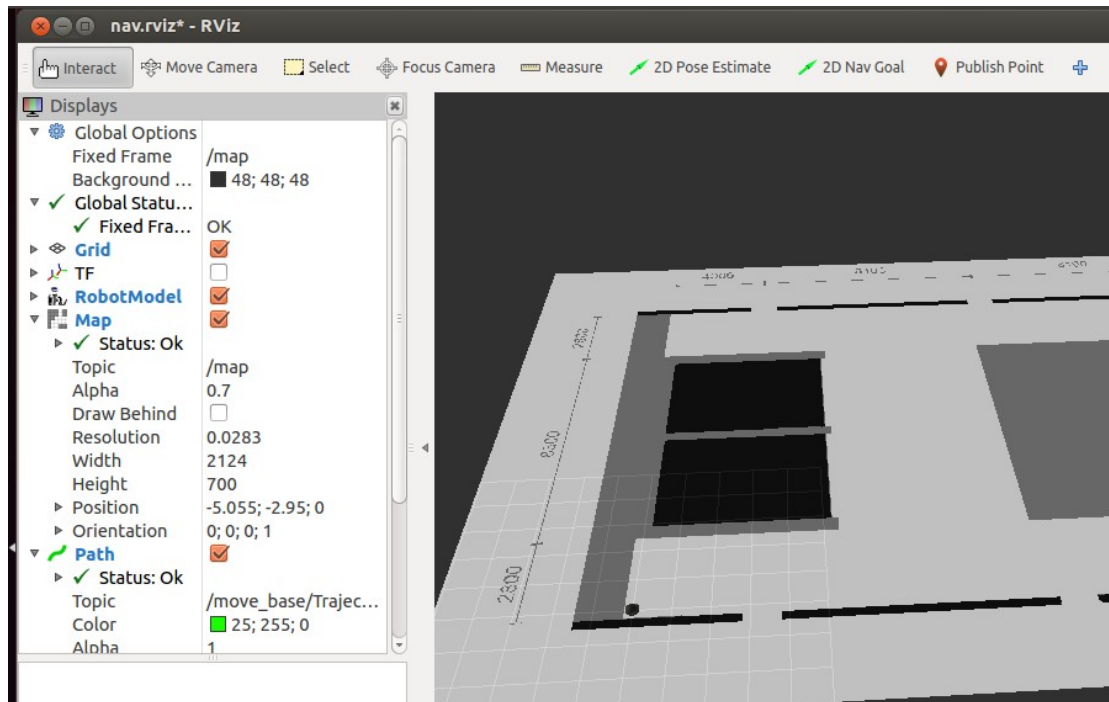
Install it by:

```
> sudo apt-get install ros-groovy-turtlebot-apps
> sudo apt-get install ros-groovy-turtlebot-viz
> sudo apt-get install ros-groovy-navigation
> sudo apt-get install ros-groovy-yujin-maps
```

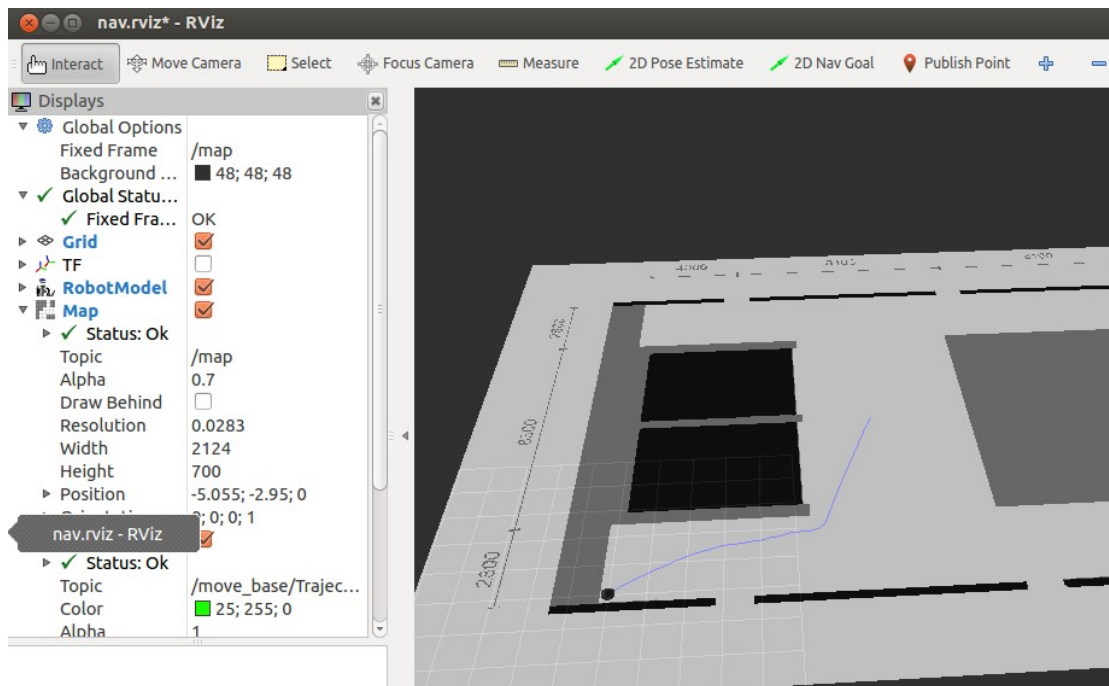
Run it

```
> roslaunch kobuki_softnode nav_demo.launch
```

Snapshot:



We can set a Nav goal:



Finish run it:

