

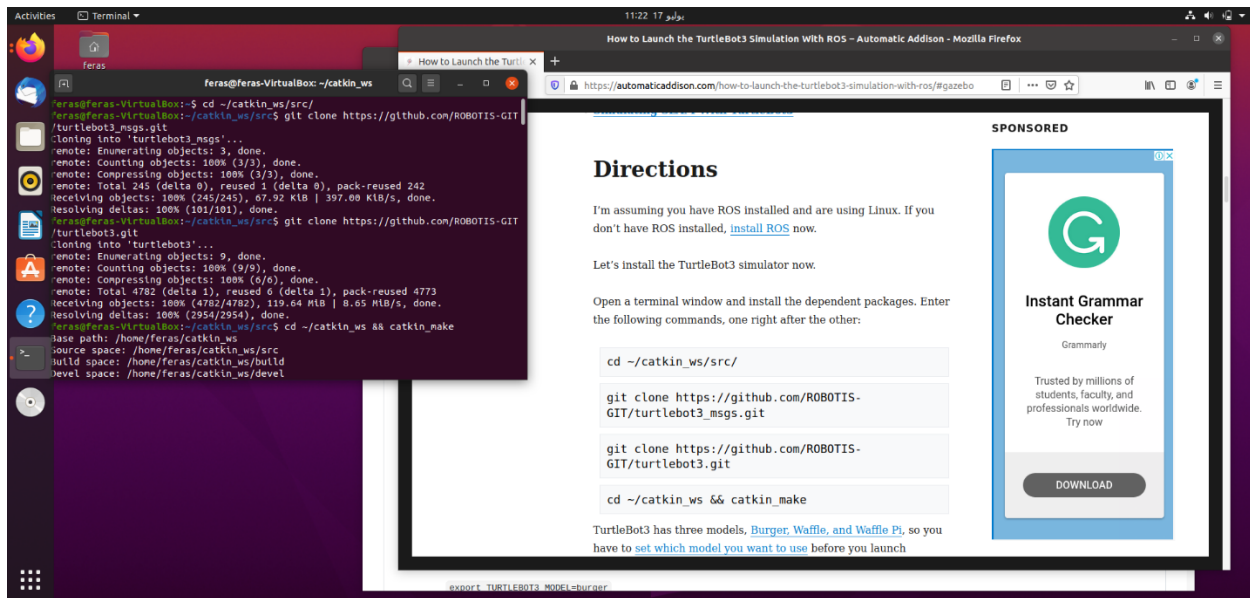
# Install turtlebot3 task

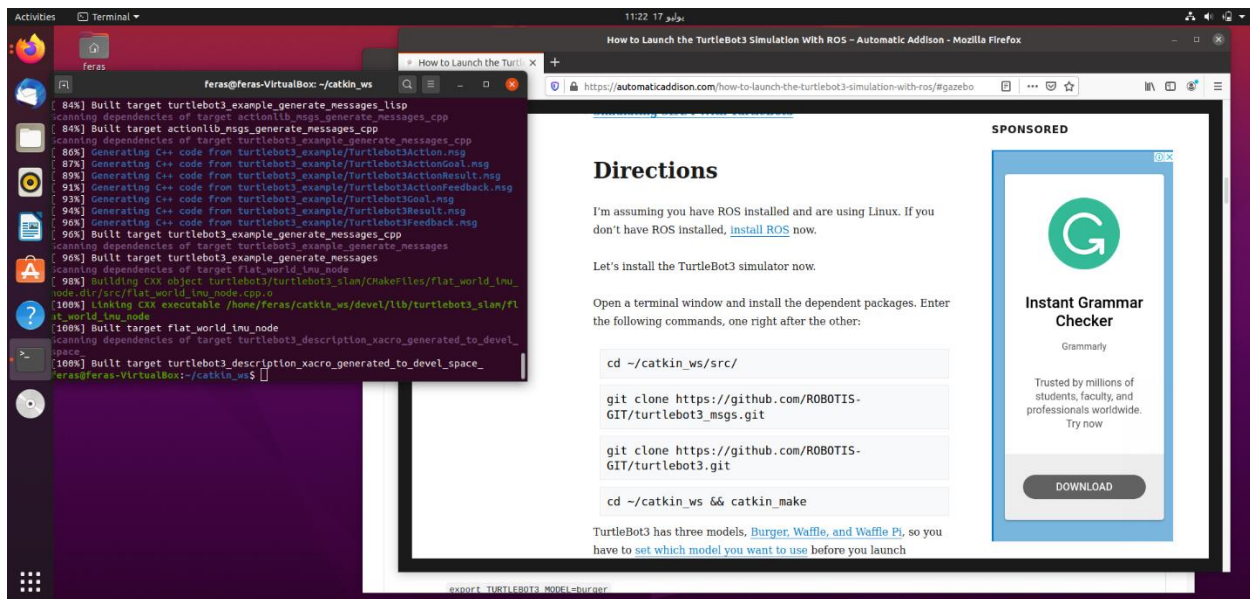
All the steps following provided in: <https://automaticaddison.com/how-to-launch-the-turtlebot3-simulation-with-ros/#gazebo>

## TurtleBot3 simulator

1. To install the dependent packages run :

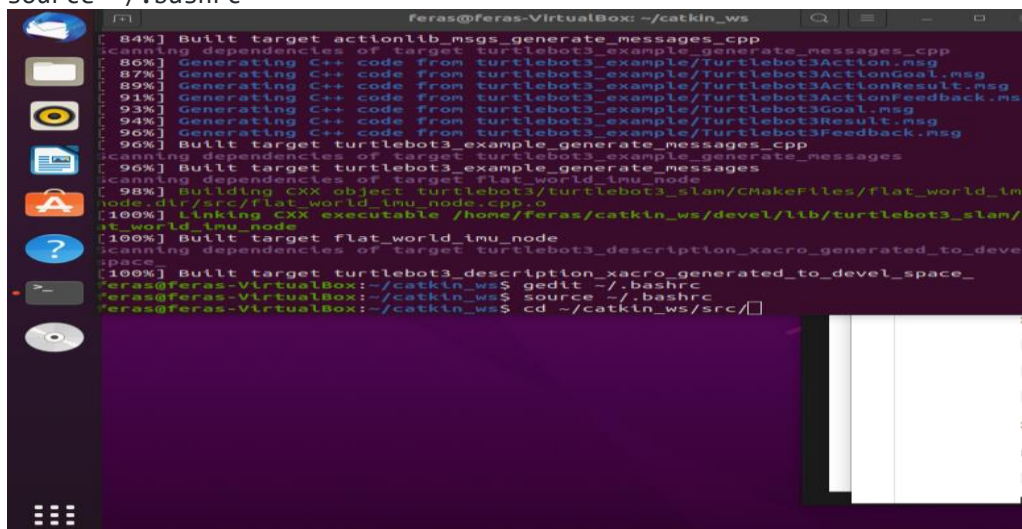
```
cd ~/catkin_ws/src/  
git clone https://github.com/ROBOTIS-GIT/turtlebot3_msgs.git  
git clone https://github.com/ROBOTIS-GIT/turtlebot3.git  
cd ~/catkin_ws && catkin_make
```





TurtleBot3 has three models, you have to set which model you want to use before you launch TurtleBot3 by add this line at the bottom of the file:

```
gedit ~/.bashrc
export TURTLEBOT3_MODEL=burger
source ~/.bashrc
```



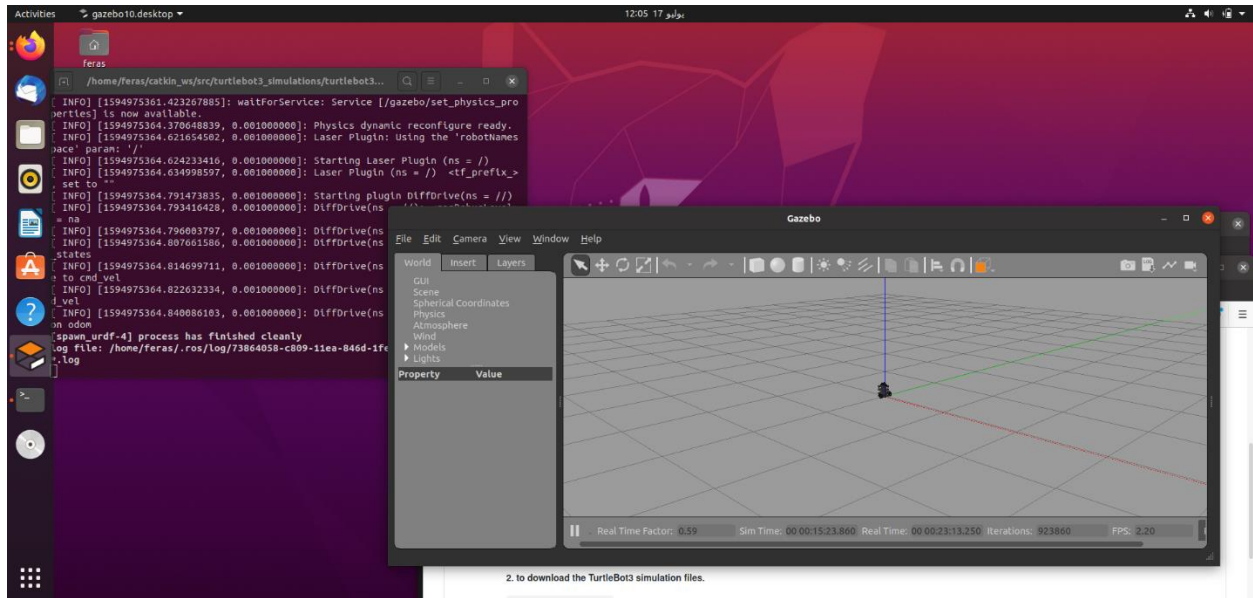
2. to download the TurtleBot3 simulation files.

```
cd ~/catkin_ws/src/
git clone https://github.com/ROBOTIS-GIT/turtlebot3_simulations.git
cd ~/catkin_ws && catkin_make
```

3. To launch the virtual robot using Gazebo

## First, launch TurtleBot3:

`roslaunch turtlebot3_gazebo turtlebot3_empty_world.launch`



to control the movement of your TurtleBot launch TurtleBot3 in an empty terminal by:

`roslaunch turtlebot3_gazebo turtlebot3_empty_world.launch`

