

<https://answers.ros.org/question/127466/how-to-use-irobot-create-in-gazebo-with-ros-hydro/>

<https://www.sauravag.com/2015/02/how-to-use-irobot-create-with-ros-indigo/>

copy the sdf the model-1\_4.sdf into ~/catkin\_ws/src/ create\_autonomy

```
done
dtu62573@dtu62573-VirtualBox:~$ rosrunc gazebo_ros_spawn_model_file ~/catkin_ws/src/model-1_4.sdf -sdf -model create
```

```
done
dtu62573@dtu62573-VirtualBox:~$ roslaunch gazebo_ros empty_world.launch
```

example on a rostopic publish to create roomba in gazebo

Open a 3<sup>rd</sup> terminal up and

```
^Cdtu62573@dtu62573-VirtualBox:~/catkin_ws/src/create_autonomy$ rostopic pub -r10 /cm
vel geometry_msgs/Twist -- '[0.1,0.0,0.1]' '[0.0,0.1,0.0]'
^Cdtu62573@dtu62573-VirtualBox:~/catkin_ws/src/create_autonomy$ rostopic pub -r10 /cm
vel geometry_msgs/Twist -- '[0.1,0.0,0.1]' '[0.1,0.1,0.0]'
^Cdtu62573@dtu62573-VirtualBox:~/catkin_ws/src/create_autonomy$ rostopic pub -r10 /cm
vel geometry_msgs/Twist -- '[0.1,0.05,0.0]' '[0.1,0.1,0.0]'
^Cdtu62573@dtu62573-VirtualBox:~/catkin_ws/src/create_autonomy$ rostopic pub -r10 /cm
vel geometry_msgs/Twist -- '[0.1,0.05,0.0]' '[0.1,0.1,0.0]'
```

[http://wiki.ros.org/ROS/Tutorials/WritingPublisherSubscriber\(c++\)](http://wiki.ros.org/ROS/Tutorials/WritingPublisherSubscriber(c++))

evt. study

building own model

<https://www.theconstructsim.com/how-to-build-a-differential-drive-simulation/>