Creating a ROS Package

Created by Hind Aljuaid

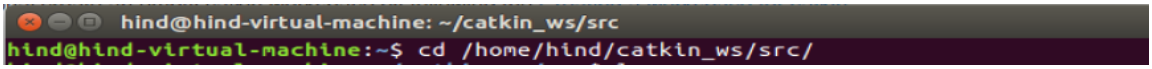
Before starting, please complete this tutorial

Creating a catkin package

1. Type the following command then click enter.

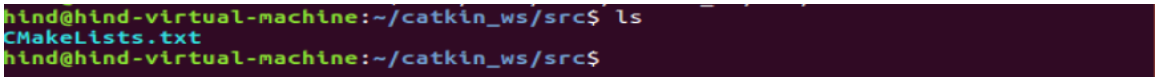
```
cd /home/youruser/catkin_ws/src/
```

Hint: Don't forget to replace the word "youruser" in the previous command with youruser.



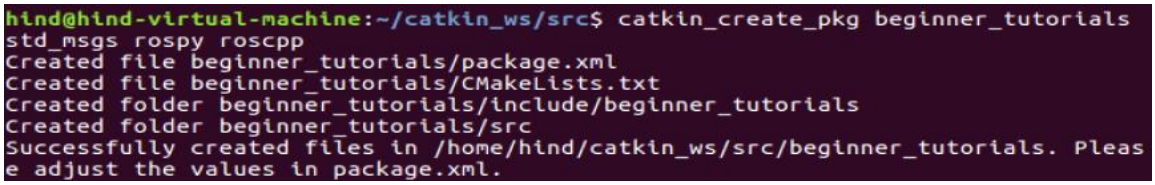
2. After that, type the following command then click enter.

```
ls
```



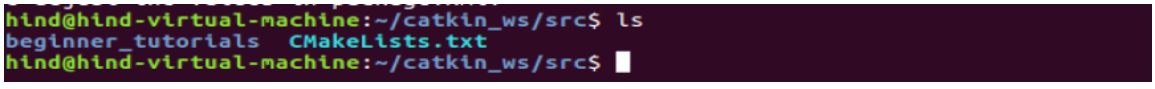
3. Then, type the following command then click enter.

```
catkin_create_pkg beginner_tutorials std_msgs rospy roscpp
```



4. Now type the following command then click enter.

```
ls
```



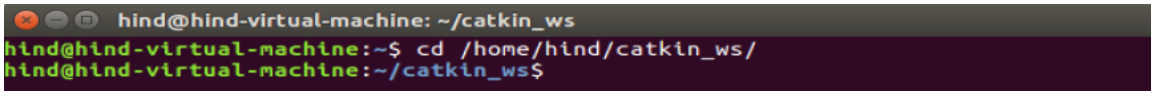
Building a catkin workspace and sourcing the setup file

Now open a new terminal.

1. Type the following command then click enter.

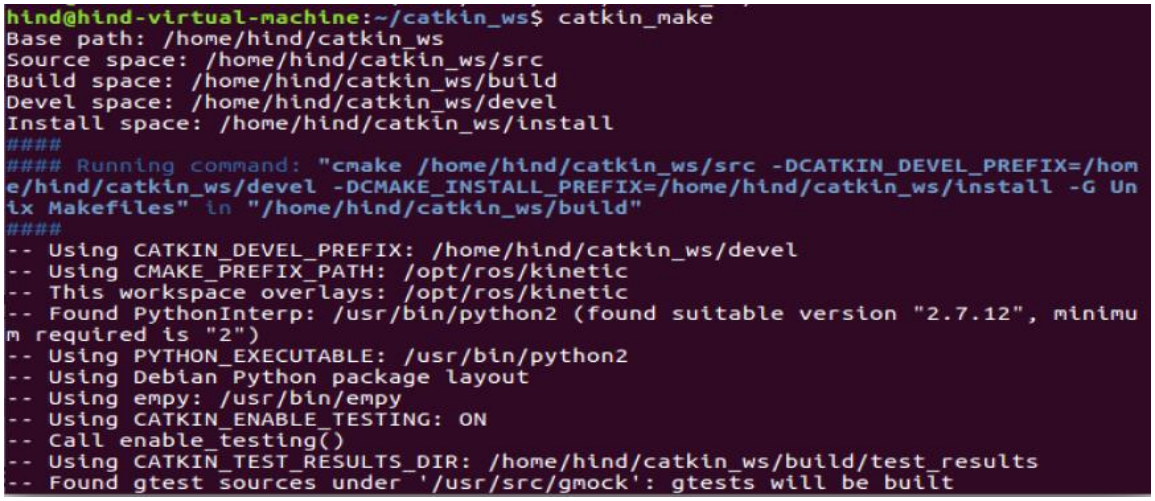
```
cd /home/youruser/catkin_ws/
```

Hint: Don't forget to replace the word "youruser" in the previous command with youruser.



2. Then, type the following command then click enter.

```
catkin_make
```



3. Next, type the following command then click enter.

```
. ~/catkin_ws/devel/setup.bash
```

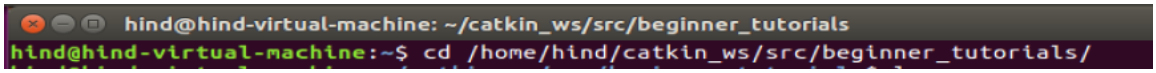
Package dependencies and customizing the package

Now open a new terminal.

1. Type the following command then click enter.

```
cd /home/youruser/catkin_ws/src/beginner_tutorials/
```

Hint: Don't forget to replace the word "youruser" in the previous command with youruser.

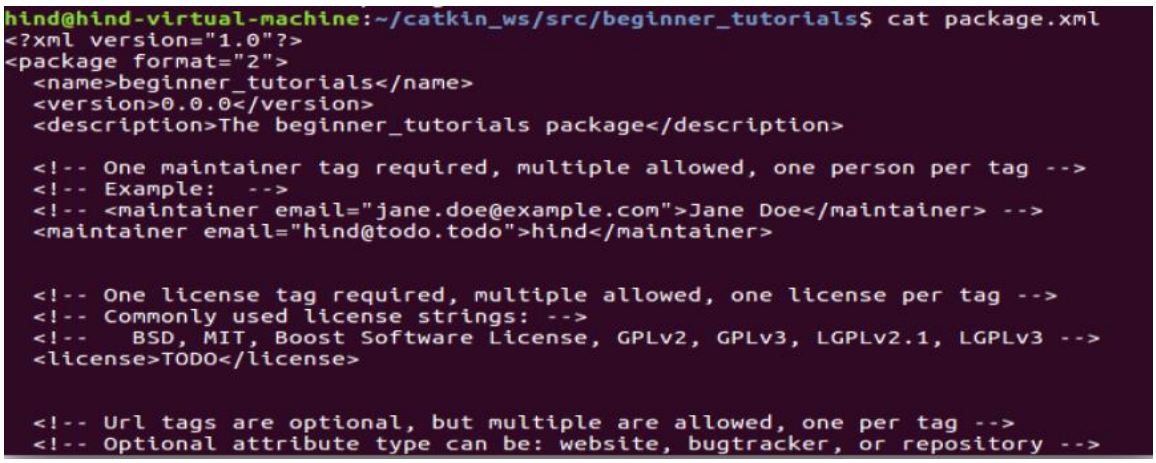


2. Then, type the following command then click enter.

```
ls
```

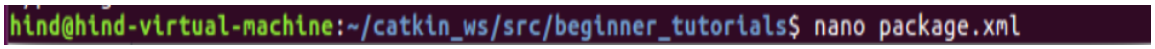
3. Next, type the following command then click enter.

```
cat package.xml
```

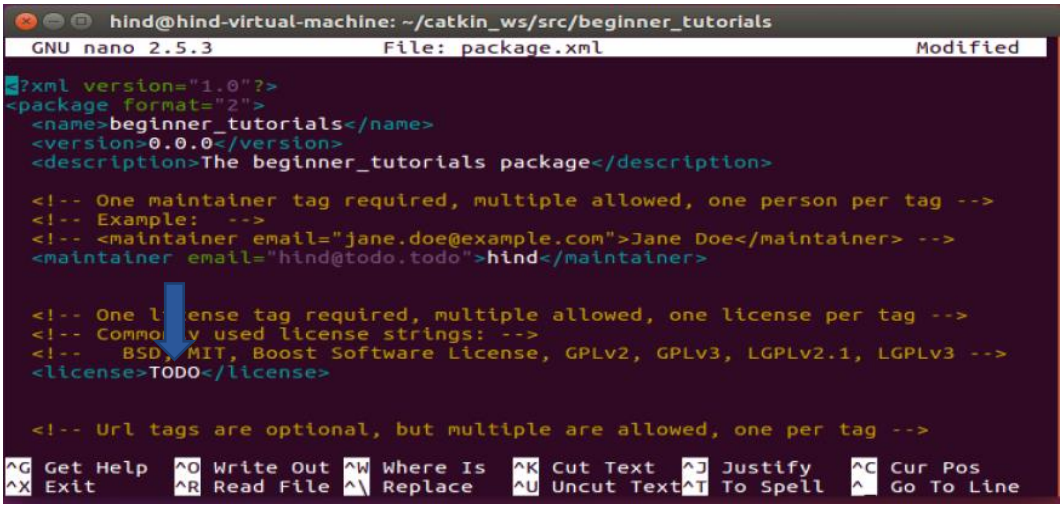


4. After that, type the following command then click enter.

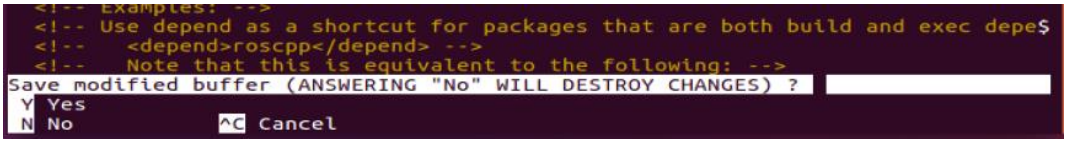
```
nano package.xml
```



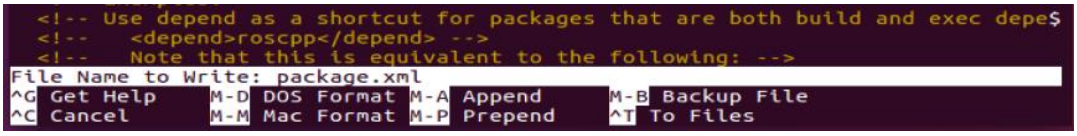
- You will see it like this. Now replace "TODO" into "BSD". Then click ctrl-x



- Now will ask you to save the modified, click y



- Now click ctrl-m



References

http://wiki.ros.org/ROS/Tutorials/CreatingPackage

https://www.youtube.com/watch?v=RQXI6KVRLhM