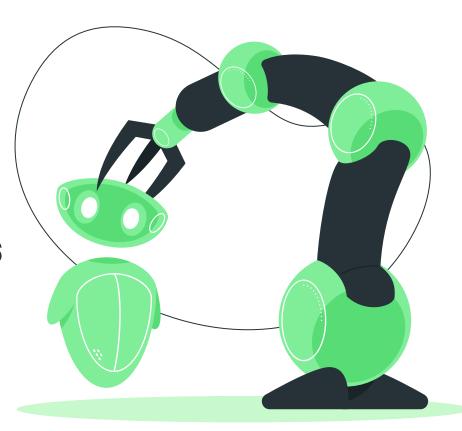
EECS/BioE/ME 106A/206A

Lab 2: Publisher and Subscriber Nodes



Announcements

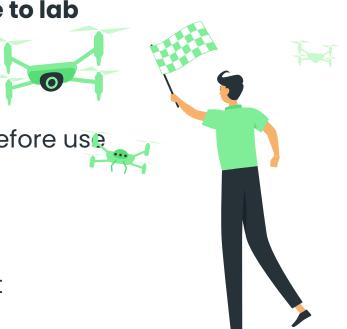
★ Lab 2 due before the start of your lab section next week

Housekeeping Reminders

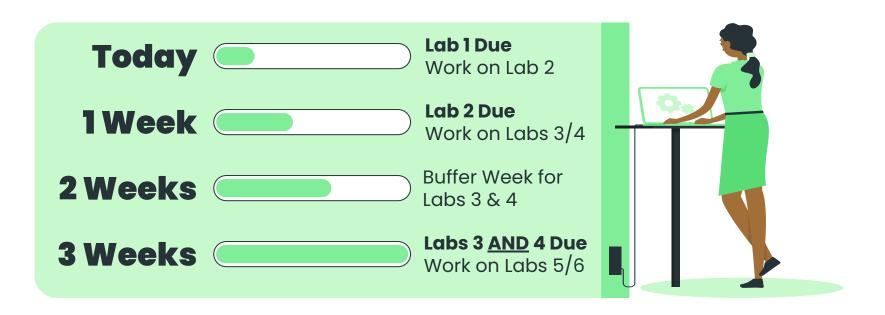
- If you aren't feeling well, don't come to lab
- Be respectful to everyone
- No food/drink in the lab
- Keep your stations clean and wipe before use
- Don't work in the lab alone

Ctrl + C EVERY process before you log out

Use **pkill -u \$(whoami)** to log out

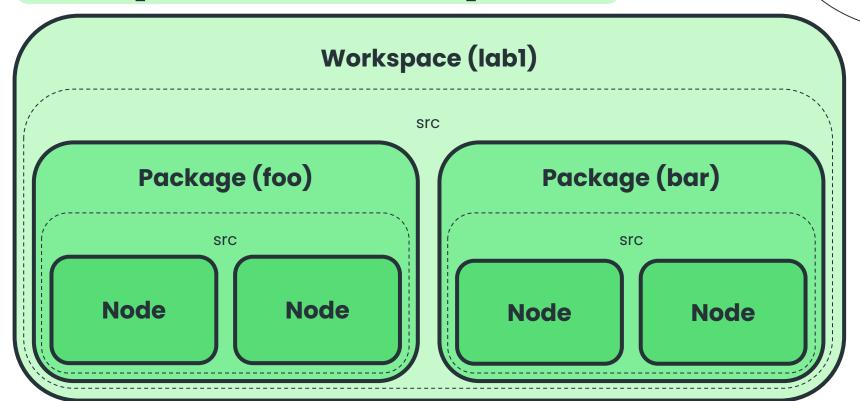


Upcoming Lab Schedule





Recap of ROS Workspaces



ROS Communication Concepts

Data Streams

Request/Response

Topics, Message Types

Services, Request and Response Types

Many-to-Many Nodes (Pub/Sub)

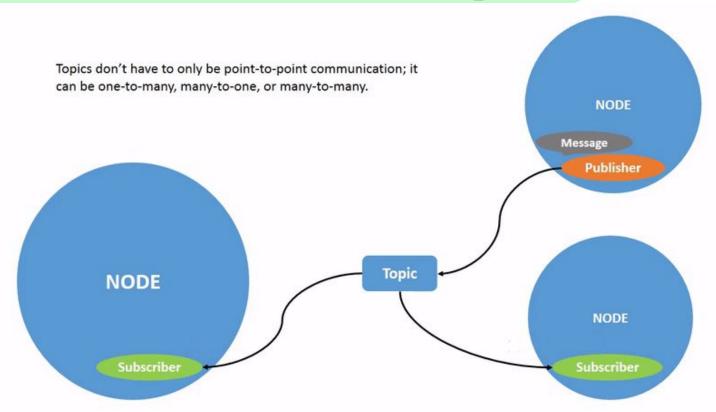
One-to-Many Nodes

Unidirectional Communication

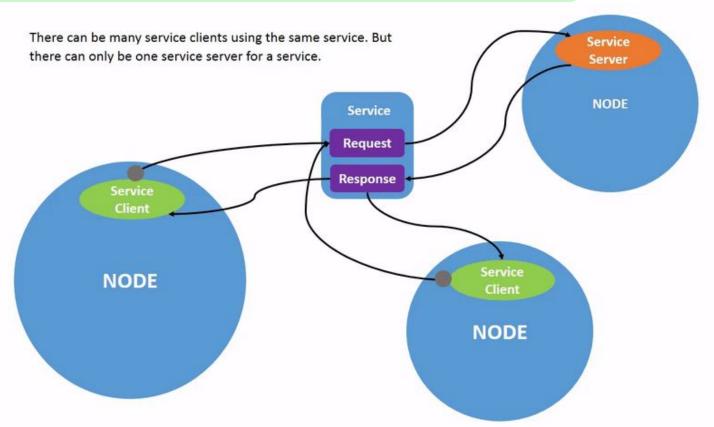
Bidirectional Communication



ROS Data Streams (Topics)



ROS Request/Reply (Services)



Checkpoints



Talk to yourself

Write your own publisher and subscriber nodes



Drive that 2nd turtle!

Write a node to interface with existing ROS code



Turtle army!!!

Use ROS services to teleport your turtles and drive them in circles



Don't Forget...

If you run into an error:

- catkin_make
- source devel/setup.bash
- chmod +x *.py



Use pkill -u \$(whoami) to log out