



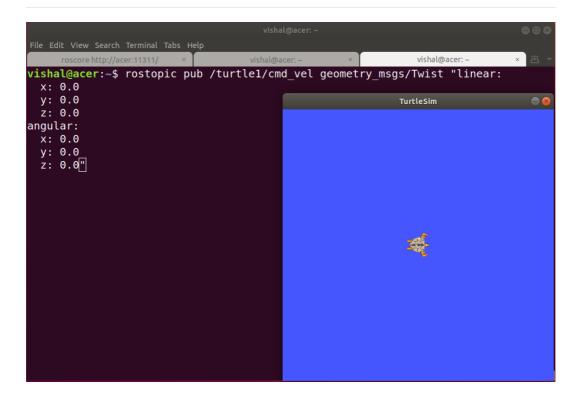
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## eYRC 2021-22: Agri Bot (AB)

## pub

- rostopic pub publishes data on to a topic currently advertised.
- Usage:

Here we recommend to double tap the TAB button after <code>/turtle1/cmd\_vel</code> (don't forget the space after the topic name). You'll see the message **type** appearing after a few instance. Similarly, double tapping after 'geometry\_msgs/Twist' will make the corresponding message content appear automatically. Try it with other commands too.



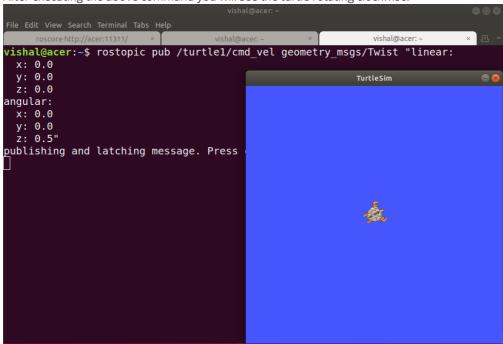
 Now that we have the complete blank (with all constants as zeros) pub command for /turtle1/cmd\_vel, let's rotate it about its z-axis (Yep! the Omega variable).

```
rostopic pub /turtle1/cmd_vel geometry_msgs/Twist "linear:
    x: 0.0
    y: 0.0
    z: 0.0
angular:
    x: 0.0
```

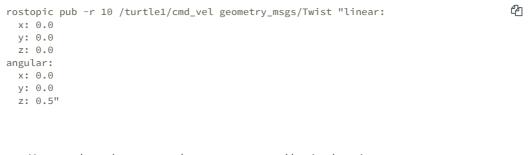
>

y: 0.0 z: 0.5

• After executing the above command you will see the turtle rotating clockwise.



- However, the turtle only rotated for a while and not continuously. This is because our pub command was only sent once. So, to keep the turtle rotating we need to keep sending our pub command repeatedly. And to do so, we'll use the -r argument with pub command.
- The following command is used to publish a steady stream of commands at a rate of 10Hz.



 $\bullet$  You can always know more about pub command by simply typing  $\,$  rostopic  $\,$  pub  $\,$  --help .

For more details refer, http://wiki.ros.org/rostopic#rostopic\_pub