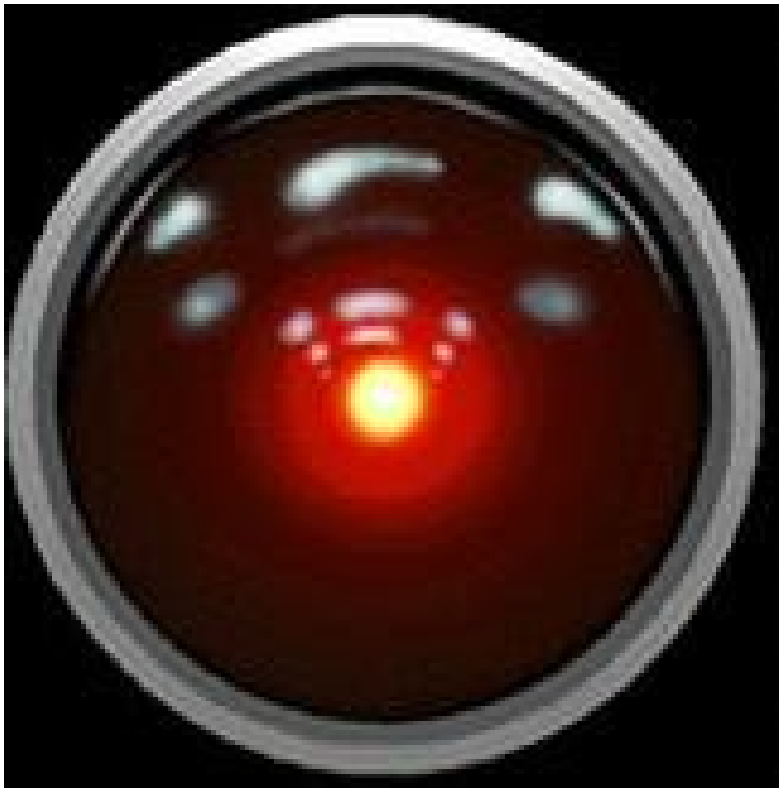


CS 378: Autonomous Intelligent Robotics

Instructor: Jivko Sinapov

http://www.cs.utexas.edu/~jsinapov/teaching/cs378/

Readings for this week

Maruyama, Shin, et al. "Change occurs when body meets environment: An essay on the embodied nature of development." (2015)

ROS Tutorials (1.1)

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

Announcements

FRI Summer Research Fellowships:

https://cns.utexas.edu/fri/beyond-the-freshman-lab/fellowships

Applications are due March 1st but apply now!

Funding is available for 4-5 students per FRI stream

Announcements

Homework 1 is due today!

Submit on canvas AND through email to TA

Homework 2 is out – more information at the end of class

In the news...

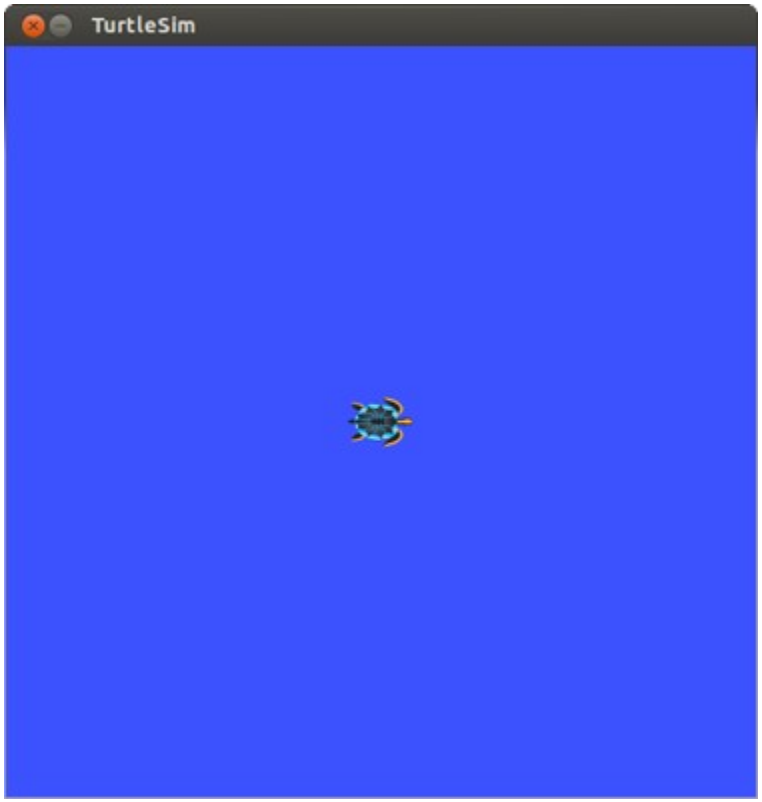

Mashable
AdChoices
► Robot Robots
► Robot Store
► Humanoid Robot
► Robot Future
Robots, not humans, will serve you at SoftBank's new store in Japan
1.1k
SHARES
Share on Facebook
Share on Twitter
WHAT'S THIS?
Ads by Google
Breathe New Life into - Product Documentation w/ MindTouch. b/c your Users Deserve the Best!
mindtouch.com/Product_Documentation
IMAGE: HITOSHI YAMADA, NURPHOTO/ASSOCIATED PRESS

Today

1) Understanding ROS topics using turtlesim

2) Writing our first ROS node

Turtlesim



Understanding topics

rostopic list : list all available topics

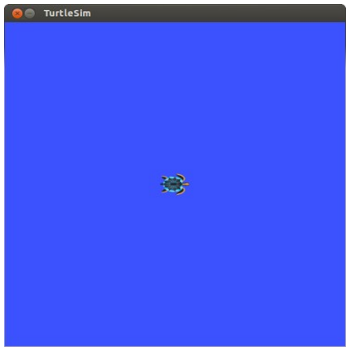
rostopic info <topic_name> : dsiplay information about a given topic

rostopic hz <topic_name> : display the frequency with which messages are published to a

rqt_graph : a utility to visualize the ROS node graph

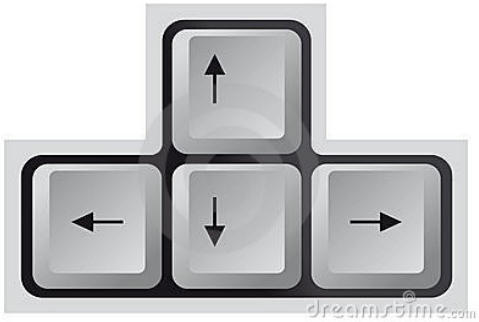
Turtlesim

turtlesim_node



/turtle1/cmd_vel

turtle_teleop_key



Writing our first ROS node...

Step 1: create a catkin workspace and build it

Step 2: in the workspace, create a ROS package

Step 3: in the package, write the code for the ROS node

THE END