CS 378: Autonomous Intelligent Robotics

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http://www.cs.utexas.edu/~jsinapov/teaching/cs378/
Readings for this week


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 1\textsuperscript{st} 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...

Robots, not humans, will serve you at SoftBank's new store in Japan
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>** : display 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