CS 378: Autonomous Intelligent Robotics

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

Robot: "Please pick an object that you see and describe it to me in one phrase."
Readings for this week


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Reading response posts are due before class on next Tuesday
Facebook Group

https://www.facebook.com/groups/420454514730323/

Send me an email with your Facebook name or email and I'll invite you
Homework 0
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Get access to a 64bit Ubuntu 14.04 LTS Linux Machine
If you're a Windows user...

Different ways to do this:

1. Setup a virtual machine on your Windows laptop
2. Make your computer dual boot
3. Get rid of Windows and install Ubuntu as your OS
If you're a Mac user...

You may be fine provided you are running OS X.

To be absolutely sure, go to the following website and follow the instructions to install ROS on a Mac:
http://wiki.ros.org/indigo/Installation
Some useful links

Ubuntu 14.04 iso:
http://releases.ubuntu.com/14.04/

Ubuntu 14.04 main installation page:
http://www.ubuntu.com/download/desktop/install-ubuntu-desktop

How to install a virtual Ubuntu machine inside Windows:
http://www.psychocats.net/ubuntu/virtualbox
Are there public CS machines available?
Introduction to C++
Introduction to C++

Quick video on “hello world” in C++ vs Java:
https://www.youtube.com/watch?v=JY7ek_knYNs

Wikipedia article:
Short Activity (~ 5 min)

Get into groups of 2-3. Come up with 3 things you know how to do in Java but do not know how to do in C++. 
Some additional examples

Vectors

Functions

Pass-by-value VS Pass-by-reference
Useful Resources

A nice set of C++ tutorials:
http://www.learncpp.com/

C++ API reference:
http://www.cplusplus.com/reference/
THE END