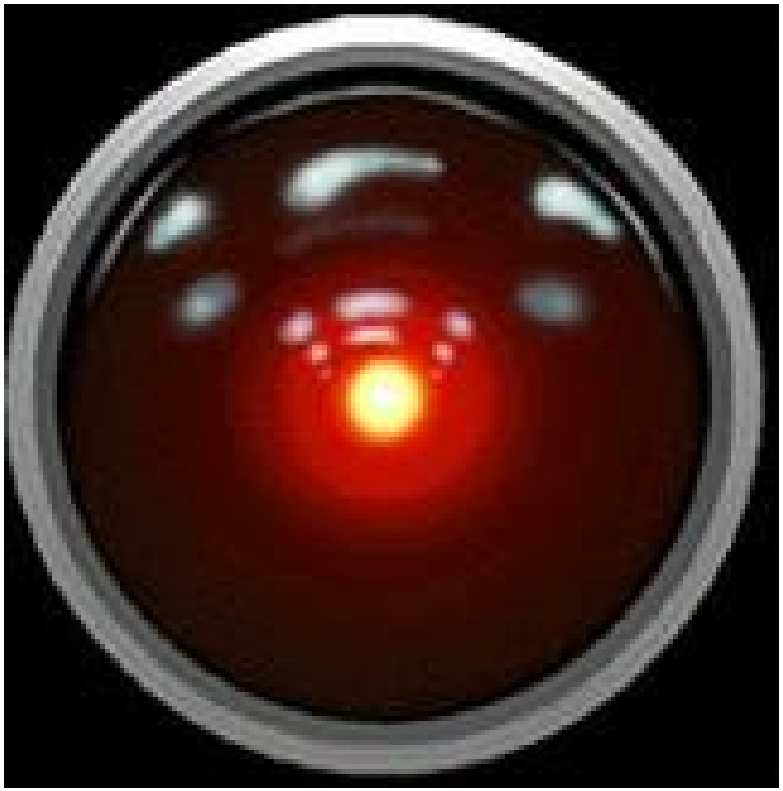

CS 309: Autonomous Intelligent Robotics

Instructor: Jivko Sinapov

http://www.cs.utexas.edu/~jsinapov/teaching/cs309_spring2017/

Announcements

Readings for this week

Irfan A. Essa (1999). ``Computers Seeing People", AI Magazine 20(2): pp. 69-82.

Weng, *et al.* (2001), ``Autonomous Mental Development by Robots and Animals", Science, v. 291, no. 5504, pp. 599-600.

Rosenthal, Stephanie, Joydeep Biswas, and Manuela Veloso. "An effective personal mobile robot agent through symbiotic human-robot interaction." Proceedings of the 9th International Conference on Autonomous Agents and Multiagent Systems, 2010.

Readings for this week

Reading response posts are due before class on Thursday

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

Homework 0

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:
https://en.wikipedia.org/wiki/Comparison_of_Java_and_C%2B%2B

C++ Hello World Demo

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