

CS 378: Autonomous Intelligent Robotics

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

Announcements

Robotics Study



Readings for this week

Stoytchev, Alexander. "Some basic principles of developmental robotics." *Autonomous Mental Development, IEEE Transactions on* 1.2 (2009): 122-130.

Minsky, Marvin. "Steps toward artificial intelligence." *Proceedings of the IRE* 49.1 (1961): 8-30.

Veloso, Manuela, et al. "CoBots: robust symbiotic autonomous mobile service robots." *Proceedings of the 24th International Conference on Artificial Intelligence*. AAAI Press, 2015.

Readings for this week

Reading response posts are due before class
on next Tuesday

In the news...

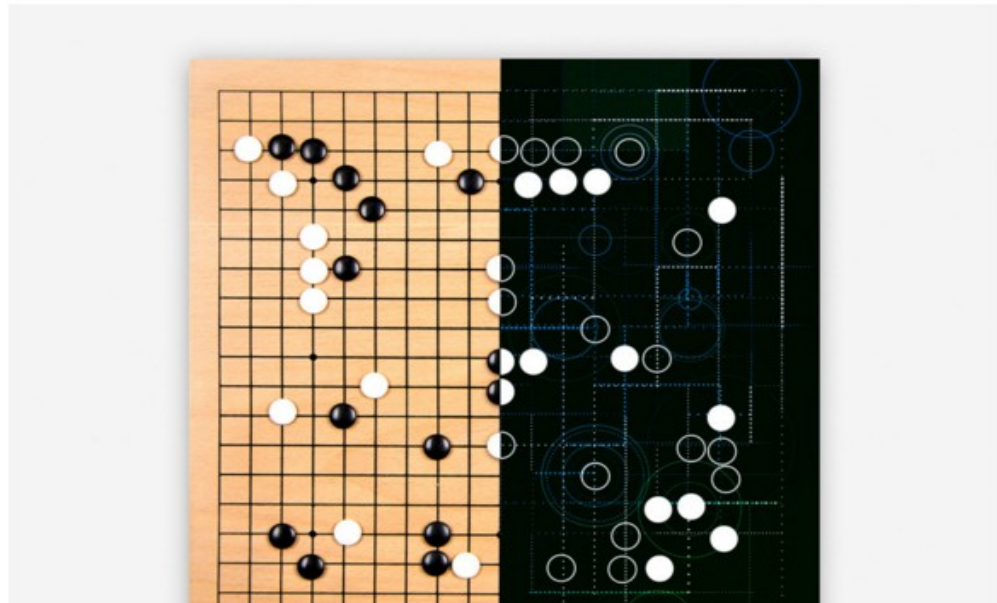


In a Huge Breakthrough, Google's AI Beats a Top Player at the Game of

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IN A HUGE BREAKTHROUGH, GOOGLE'S AI BEATS A TOP PLAYER AT THE GAME OF GO



Homework 0 (due today)

Get access to a 64bit Ubuntu
14.04 LTS Linux Machine

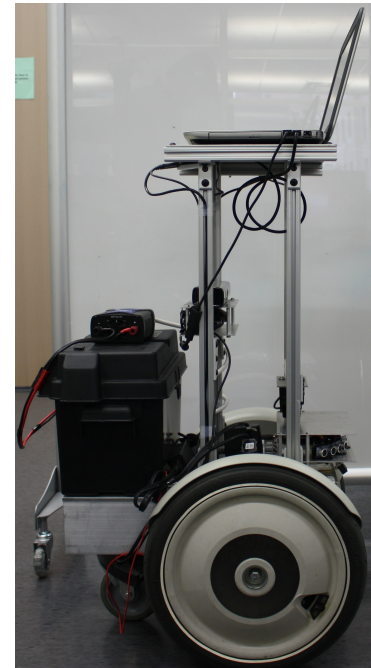
Today...

- Crash Course in Linux
- Introduction to ROS

Introduction to Robot Operating System

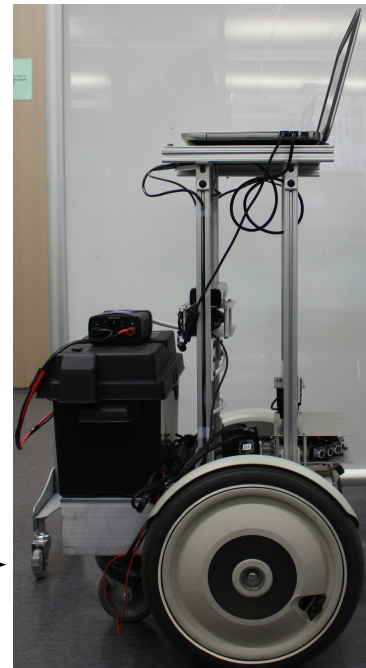
What is ROS?

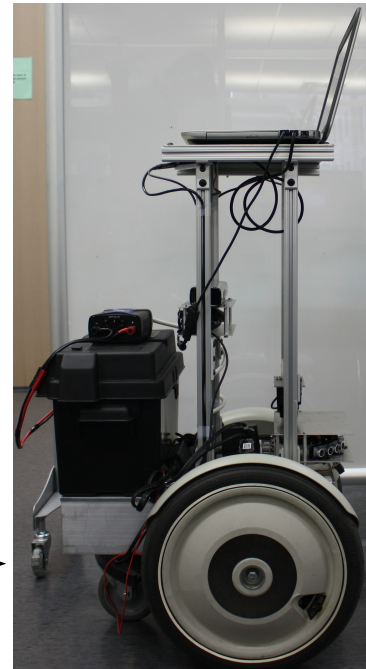
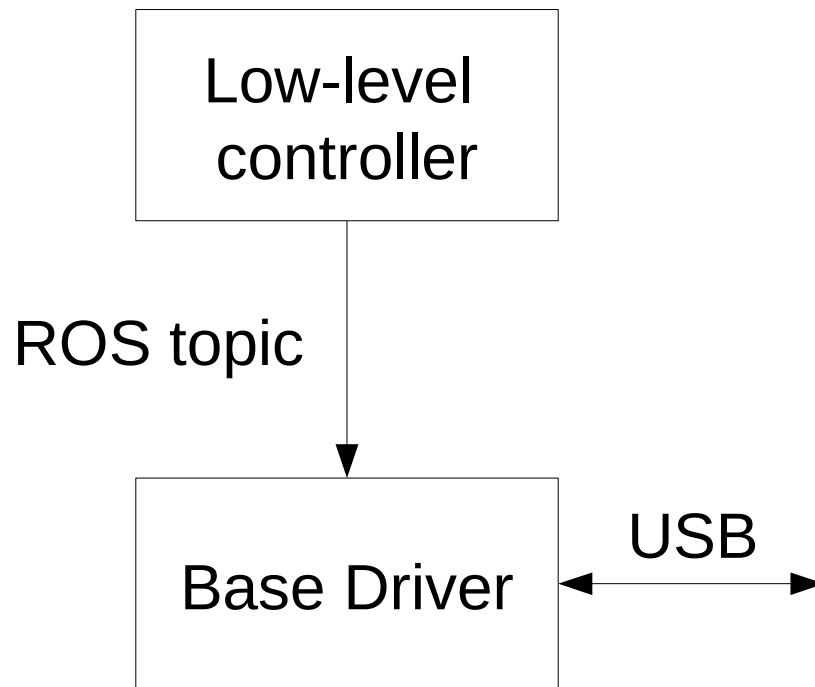
ROS is an open-source, meta-operating system for your robot. It provides the services you would expect from an operating system, including hardware abstraction, low-level device control, implementation of commonly-used functionality, message-passing between processes, and package management.

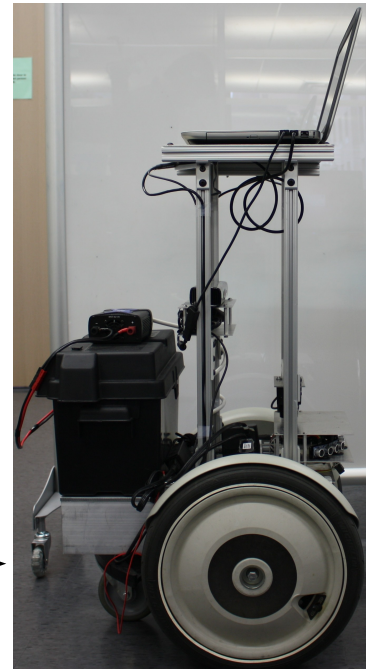
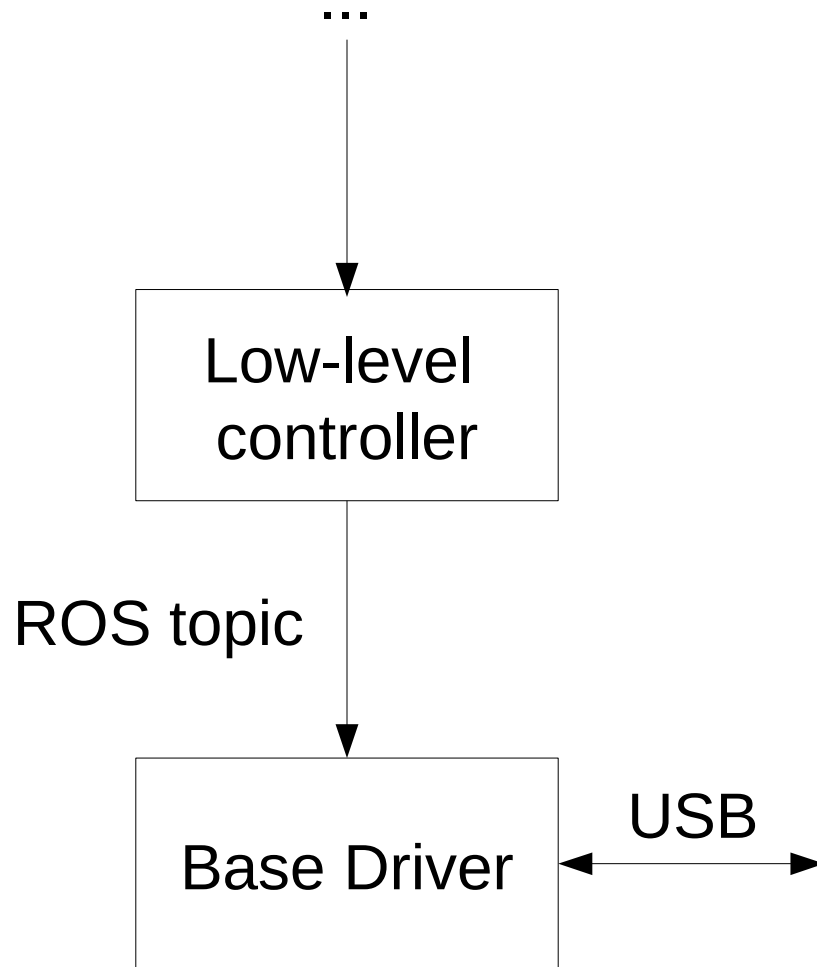


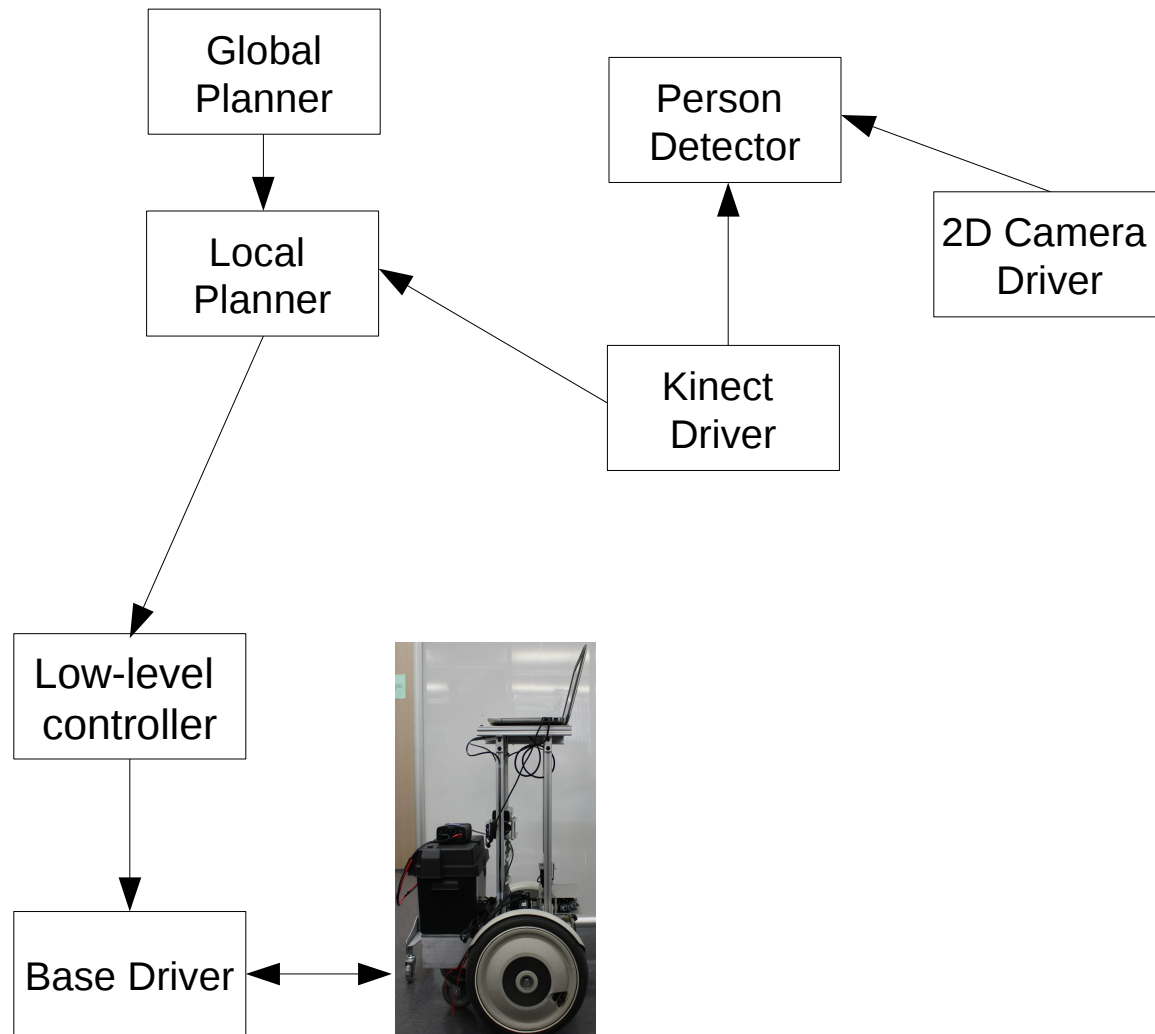
Base Driver

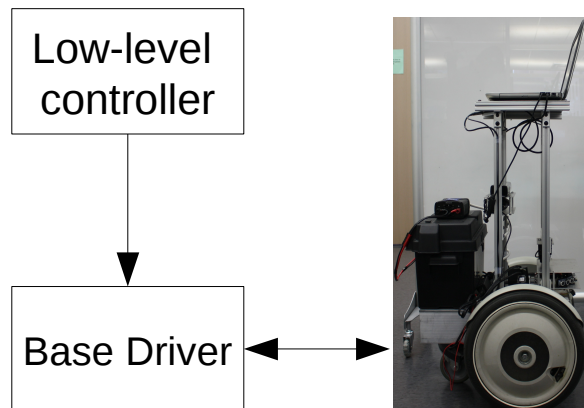
USB

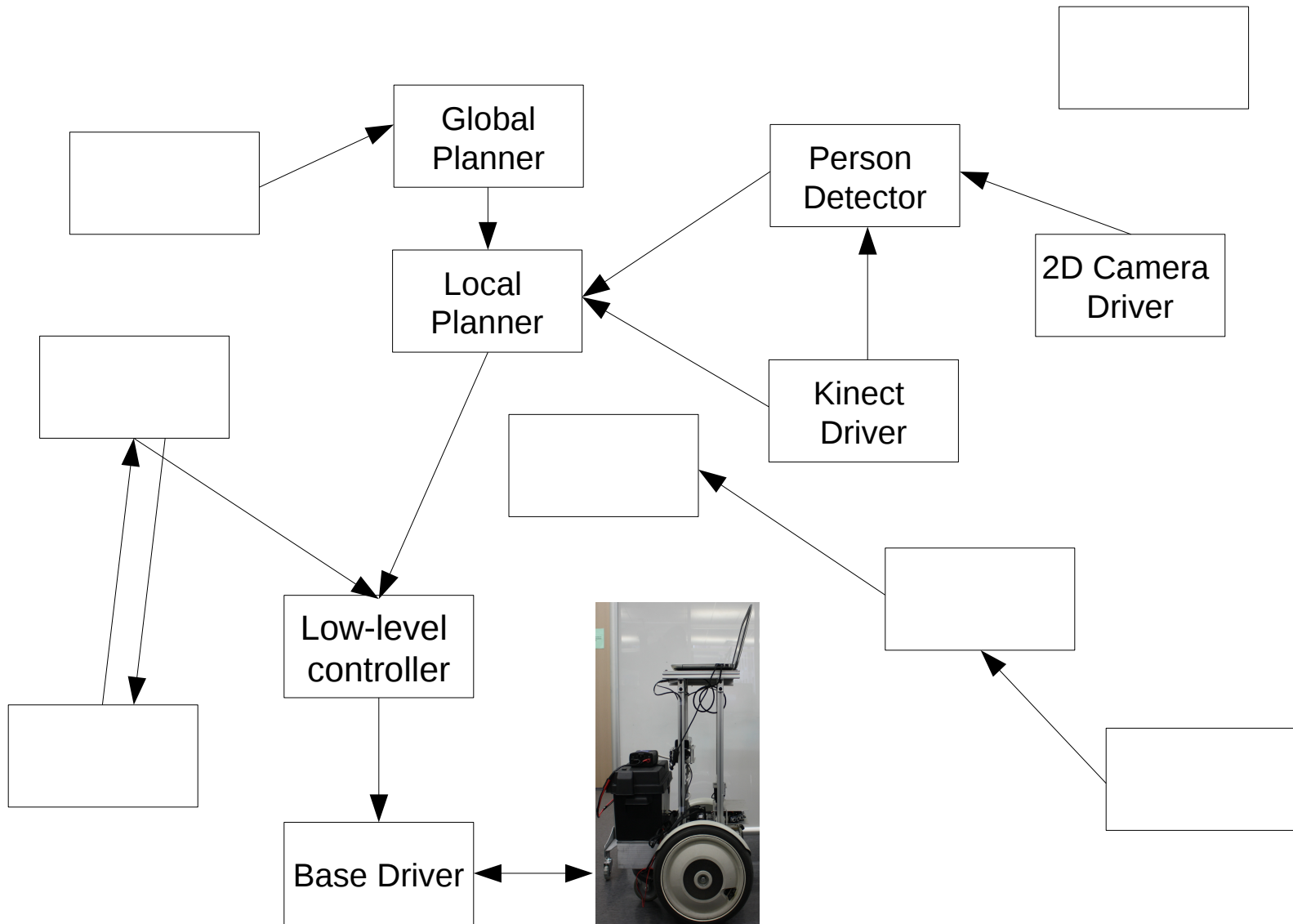








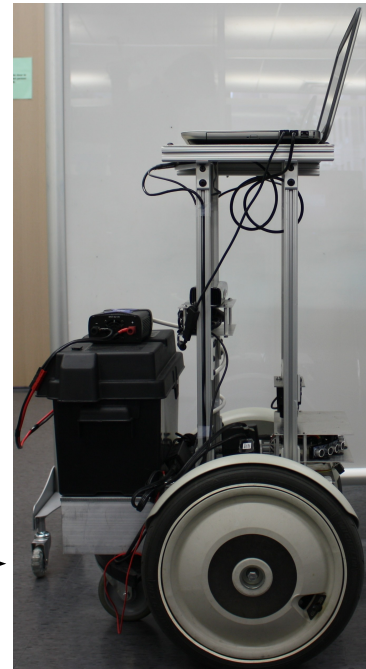
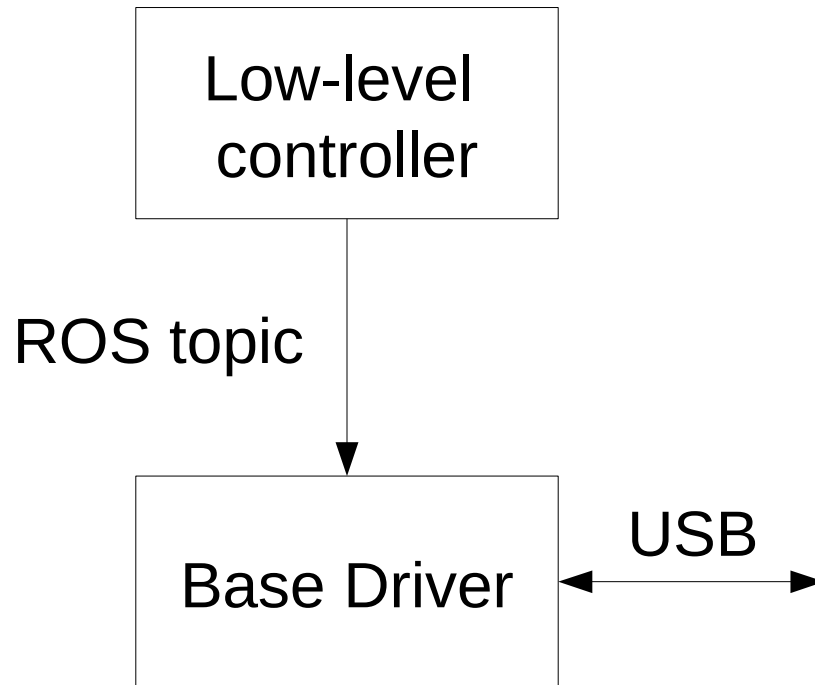




What is a ROS Topic?

What is a ROS Topic?





A tour of the ROS wiki...

Basic Linux Shell Commands

Homework 1 (due Feb 4th)

THE END