

Baxter Videos



Research Robots at UHCL 0:29

<https://youtu.be/uWT1Z53nSVE>

Turtlebot, Bebop, Baxter plays golf



Meet Baxter Good News and Other News Rethink is no more but Sawyer lives on.

MANIPULATION

VISUAL SERVOING Golf 3:55

Baxter Research Robot Visual Servoing Pick & Place Demonstration 3:55

<https://www.youtube.com/watch?v=d-a82DYlaIE>

ADVANTAGES OF TWO ARMS

Baxter Research Robot Solves Rubik's Cube 4:40

<https://www.youtube.com/watch?v=vF9usYszChU>

Human touch makes robots smarter: On Learning Context-Driven User Preferences 1:39

<https://www.youtube.com/watch?v=uLktpkd7ojA>

SMACH. YMCA. VIDEOS.

Baxter Controlled through EEG

Baxter robot is controlled through an Emotiv EEG headset to move his two 7 DOF arms to form the letters of YMCA. 3:13

<https://www.youtube.com/watch?v=RSYHQQoSIR8>



YMCAStateMach_for
_Sim.py.docx

Double Click OR PULL IT UP 6_1_PY

SMACH is a task-level architecture for rapidly creating complex robot behavior. At its core, SMACH is a ROS-independent Python library to build hierarchical state machines. SMACH is a new library that takes advantage of very old concepts in order to quickly create robust robot behavior with maintainable and modular code.

<http://wiki.ros.org/smach>

Lecture Ch6 Meet Baxter and Other “SAFE” robots

COBOTS. FAUNAC VIDEO

What's the difference between a COBOT and a ROBOT
2,096 view • Nov 15, 2019 2:36

<https://www.youtube.com/watch?v=aRx20DTTQ2M&feature=youtu.be>

We will see different control methods – position, velocity, force (or torque).

DOF VS 7 DOF

6 and 7 dof robot arms

https://www.youtube.com/watch?v=7u_UjMB8tJI&list=PLF968D1F05819D65E&index=2

POSE X, Y, Z, R, P, Y 6 DOF CAN BE A UNIQUE POSE – BUT OBSTACLE AVOIDANCE MAY BE LIMITED.

7 DOF HAS A REDUNDANCY BUT MORE FLEXIBILITY – THINK OF YOUR SHOULDER MOTION EXTENDING ARM PERPENDICULAR TO SHOULDER AXIS AS EXTRA DOF. **SEE OUR RESEARCH PAPER – 6_2_1.**

BIGGIES FOWARD KINEMATICS vs INVERSE KINEMATICS AARON ?

Forward and Inverse Kinematics Part 1 197,310 views • Aug 4, 2011 14:27

<https://www.youtube.com/watch?v=VjsuBT4Npvk>

Aaron solves an exam problem!

Intro2Robotics Lecture 9b: Solve Inverse Kinematics like a Pro! Aaron Becker 26:20

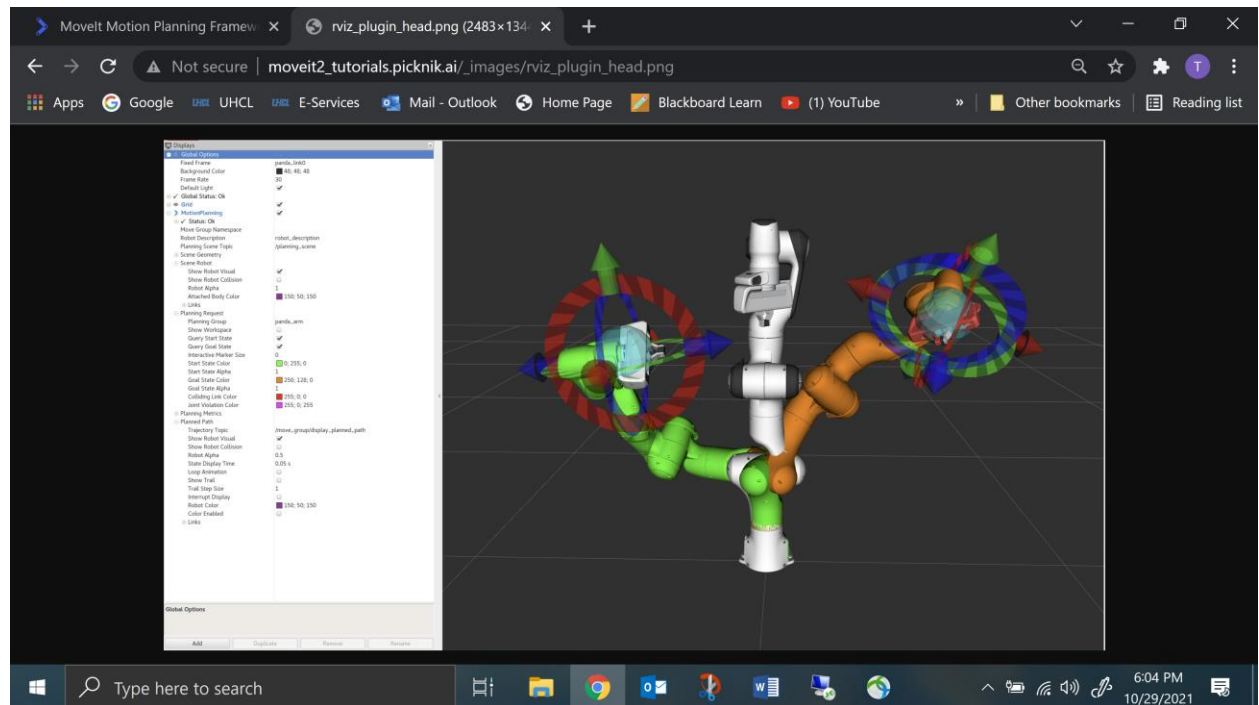
<https://www.youtube.com/watch?v=vUwd-PHuYfQ>

6_3 TRAJECTORY PLANNING MOVE IT

See the Robots page for a list of some of the robots that MoveIt! is being used with.

<http://moveit.ros.org/>

http://moveit2_tutorials.picknik.ai/



Kavraki Lab Computational Robotics, AI & Biomedicine Lab

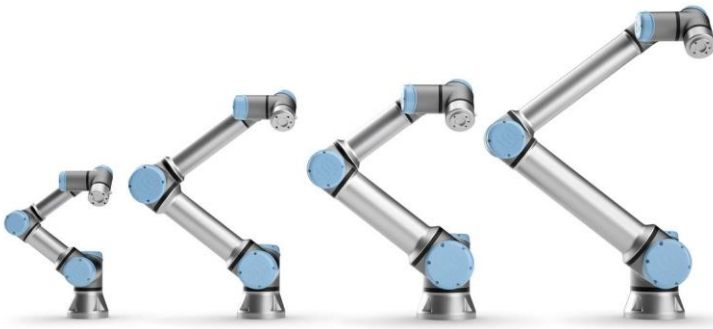
<http://www.kavrakilab.org/>

UNIVERSAL ROBOTS.

https://github.com/UniversalRobots/Universal_Robots_ROS_Driver

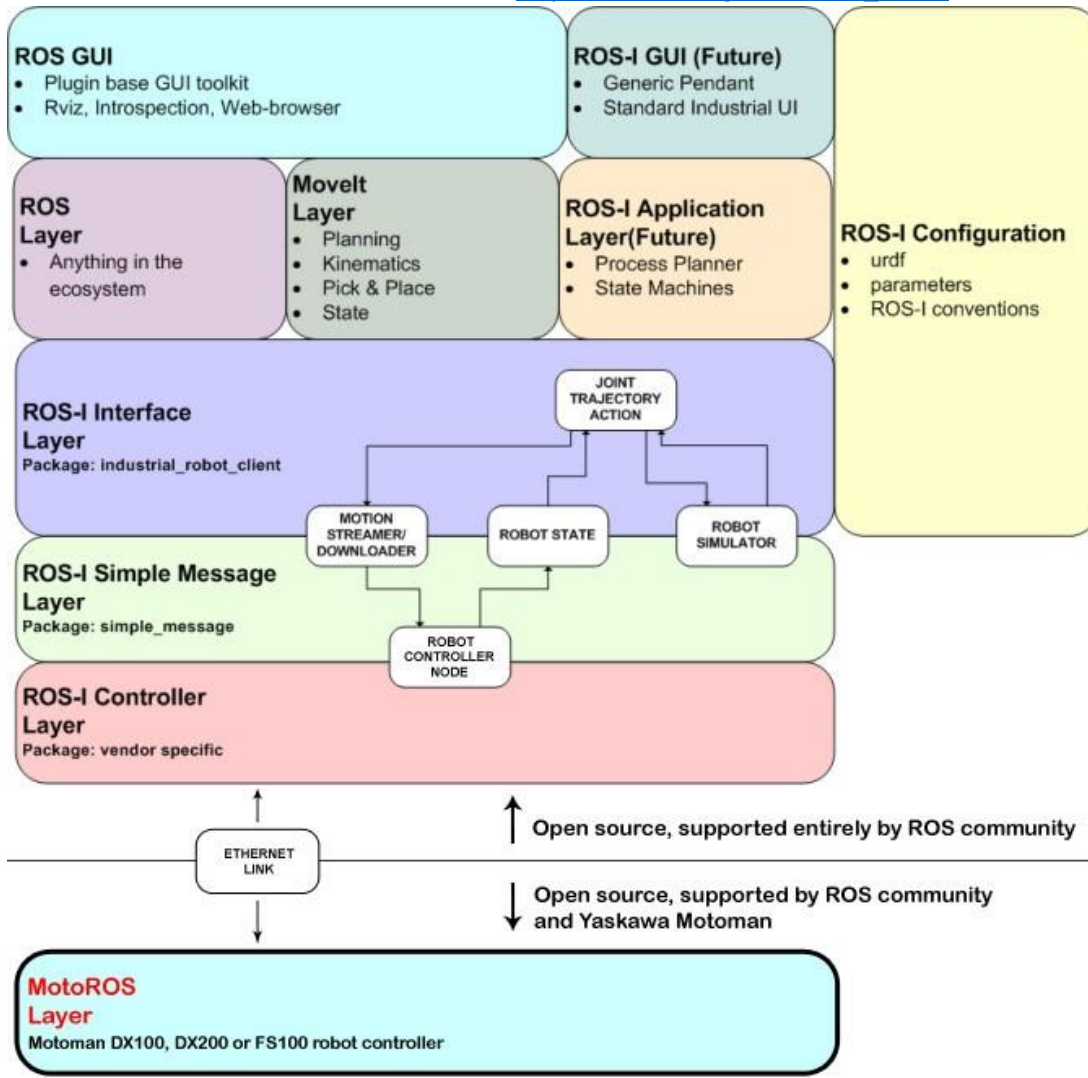
Universal Robots have become a dominant supplier of lightweight, robotic manipulators for industry, as well as for scientific research and education. The Robot Operating System (ROS) has

developed from a community-centered movement to a mature framework and quasi standard, providing a rich set of powerful tools for robot engineers and researchers.





http://wiki.ros.org/motoman_driver



[Creating a Dual-Arm System](#)

http://wiki.ros.org/motoman_driver/Tutorials/Creating%20a%20Dual-Arm%20System
