

<https://petercorke.github.io/robotics-toolbox-python/intro.html>

<https://youtu.be/Kkse8uTkvUI>

Also Sami Haddadin is the master mind behind our Franka robot

<https://www.youtube.com/channel/UCh3dCe15Smlecart5YU8N-Q/videos?view=0&sort=dd&flow=grid>

This is the camera Ros package we need to install if you want to explore it

<https://github.com/IntelRealSense/realsense-ros>

Then we will try to calibrate the camera with the robot, I can take this opportunity to explain transformation matrices

If all goes well we should be able to see 3d image with the robot simulation in rviz!

We will start with the one I sent

We might also need to install this library manually

<https://github.com/IntelRealSense/librealsense>

My objective would be to set things up on the robot PC since this will be the one actually connected to the camera, but you can try replicating on your machines as well if you wish so

We will also need this package for the calibration part

<https://github.com/pet1330/whycon-orig>

april tag installation

<https://github.com/AprilRobotics/apriltag>

ready images

<https://github.com/AprilRobotics/apriltag-imgs>

generating custom tags (seems to be using java)

<https://github.com/AprilRobotics/apriltag-generation>

user guide

<https://github.com/AprilRobotics/apriltag/wiki/AprilTag-User-Guide>

this is the link for whycon as well

<https://github.com/gestom/whycon-orig>

we only need to install it (install listed dependencies, clone package, make in your workspace)

I have a python script ready that takes output from the marker detection and generate the estimated pose

<https://moveit.ros.org/documentation/concepts/>

This is a nice moveit tutorial summarising its functionality