

METR4202 / METR7202 -- Robotics

Tutorial 1 – Week 1: Robotics Toolbox

The objective of this tutorial is to familiarize yourself with the MATLAB robotics toolbox developed by Peter Corke as well as the OpenCV software for computer vision.

1. For a team of 5 (i.e., four others and yourself). We may allow a few teams of 6.

2. Please visit and download:

- MATLAB robotics toolbox:

<http://robotics.itee.uq.edu.au/~metr4202/software/index.html>

Cached from: http://petercorke.com/Robotics_Toolbox.html

- OpenCV (Downloads are listed on the 4th section of the page):

<http://robotics.itee.uq.edu.au/~metr4202/software/index.html>

Cached from: <http://opencv.org/>

(Both cached on the METR4202 page)

3. To install the Matlab Robotics Toolbox, unzip the contents (the folder rvctools) to a the MATLAB toolbox folder (e.g., D:\MATLAB\toolbox\rvctools).

4. Then restart Matlab

5. Then try the command `startup_rvc`

6. Play with the `rpy2tr` and `rpy2r` functions.

```
doc rpy2tr
```

```
doc rpy2r
```

After this, try playing with the `rtbdemo`