

# METR4202 / METR7202 -- Robotics

## Tutorial 1 – Week 2: Robotics Toolbox

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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 4-5 (i.e., four others and yourself ).
2. Please visit and download:
  - MATLAB robotics toolbox:  
[http://petercorke.com/Robotics\\_Toolbox.html](http://petercorke.com/Robotics_Toolbox.html)
  - OpenCV (Downloads are listed on the 4<sup>th</sup> section of the page):  
<http://opencv.org/>

(Both cached on the METR4202 Blackboard 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 `rttrdemo`