

# METR4202 / METR7202 -- Robotics

## Tutorial 1: Seeing Past the Camera Chimera

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The objective of this pre-lab is to give some tips and tools for connecting the Microsoft LifeCam to Matlab.

1. Please visit the METR4202 Software Page:

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

Please go to the section “Microsoft LifeCam Studio Drivers” and download the [Driver](#) and [Control Application](#).

2. For a team of up to 5 (i.e., four others and yourself). This is your “study team” – remember that both Problem Set 1 and Problem Set 2 are fully individual. The purpose of the study team is meet some other folks in the class with whom to share experiences.

3. 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](http://petercorke.com/Robotics_Toolbox.html)

- OpenCV (Downloads are listed on the 4<sup>th</sup> 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)

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

5. Then restart Matlab

6. Then try the command `startup_rvc`

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

```
doc rpy2tr
```

```
doc rpy2r
```

After this, try playing with the `rtbdemo`