Controlling Tello with Python

Before we make Tello do some crazy tasks like object tracking and autonomous following, we need to ensure we have all the inter-compatible libraries required installed.

Python 3.7.9 (tested and working. Feel free to try out other versions) https://www.python.org/downloads/release/python-379/

If you have multiple python versions installed, you can do either of the things.

You can create a new virtual environment using conda or venv with base interpreter as python 3.7.9 and activate it every time before you play around.

https://www.geeksforgeeks.org/set-up-virtual-environment-for-python-using-anaconda/

https://python.land/virtual-environments/virtualenv

You can change default python version to 3.7.9 https://stackoverflow.com/questions/5087831/how-should-i-set-default-python-version-in-windows

Opency == 4.5
Mediapipe
Matplotlib
Numpy
pygame

DjiTellopy

DJI Tello drone python interface using the official Tello EDU SDK with implementation of all tello commands, easily retrieve a video stream, receive and parse state packets, control a swarm of drones

https://github.com/damiafuentes/DJITelloPy

There are a few useful commands we will be using throughout the labs.

mytello = Tello() creating an object of Tello

mytello.connect() connecting to our tello object

mytello.streamoff() ,mytello.streamon() to start video streaming

mytello.get_battery() get information about battery

mytello.send_rc_control(left_right_velocity, for_back_velocity,

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up_down_velocity, yaw_velocity) to move the drone around in 3d space.
mytello.takeoff()
mytello.land()
```

Try running the simple example provided in their repository.

For controlling using keypad, try running: https://github.com/damiafuentes/DJITelloPy/blob/master/examples/manual-control-pygame.py