

Additional File 2: Install Python, the Anaconda Python distribution and OpenCV Python Binding

1. Install Python releases:

- Read the beginner's guide to Python if you are new to the language:
<https://wiki.python.org/moin/BeginnersGuide>
- For Windows users, Python 2 release can be downloaded via:
<https://www.python.org/downloads/windows/>
- For Mac OS users, Python 2 release can be downloaded via:
<https://www.python.org/downloads/mac-osx/>
- Leaf-GP currently only supports Python 2.7.x

2. Install Anaconda Python distribution:

- Read the install instruction using the URL: <https://docs.continuum.io/anaconda/install>
- For Windows users, a detailed step-by-step installation guide can be found via:
<https://docs.continuum.io/anaconda/install/windows>
- For Mac OS users, a detailed step-by-step installation guide can be found via:
<https://docs.continuum.io/anaconda/install/mac-os.html>
- An Anaconda Graphical installer can be found via:
<https://www.continuum.io/downloads#macos>
- We recommend users to install the latest Anaconda Python distribution

3. OpenCV

- After having installed the Anaconda distribution, users can use **conda** (a package manager application) to install OpenCV (version 2.4.11, required by Leaf-GP).
- To install this package with conda run:
conda install -c menpo opencv
- Menpo online package repository can be found via: <https://anaconda.org/menpo/opencv>
- For installing the full-version OpenCV-Python, see the URL:
http://opencv-python-tutroals.readthedocs.io/en/latest/py_tutorials/py_tutorials.html