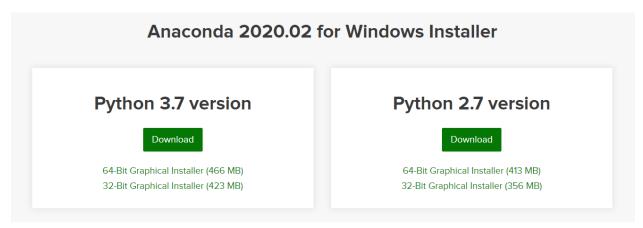
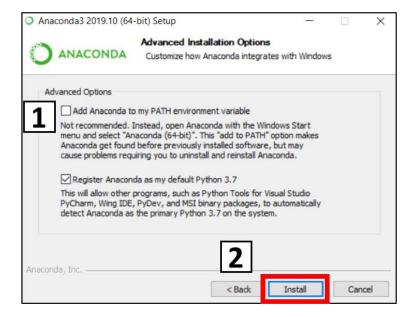
Plength Installation Guide

For any problems, please contact sai.chananchida@gmail.com

1. Install Python through **Anaconda**

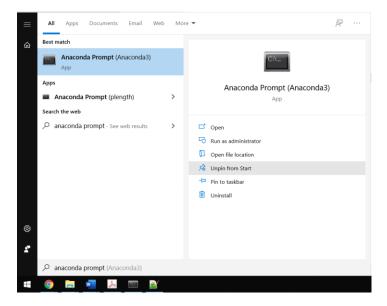


Download the Python 3.7 version. If you click the "Download" button it should automatically detect whether your computer is 32- or 64-Bit. It is recommended that you use Anaconda as your default Python and NOT add Anaconda to your PATH environment variable (see below).



2. Install git and clone the repository

Open "Anaconda prompt" (Using the "Command prompt" will not work!)



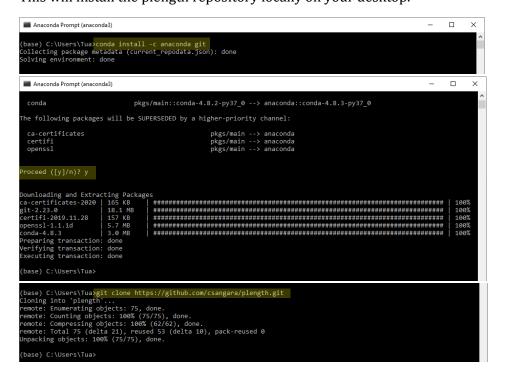
• Install git

conda install -c anaconda git

• When asked if you want to proceed, type "y" and press enter. Then type:

git clone https://github.com/csangara/plength.git

This will install the plength repository locally on your desktop.



3. Create a virtual environment

Create a virtual environment using the following command

```
conda create -n plength python=3.5
```

You will be asked if you want to install the following packages. Type "y" and press enter.

After a few moments, your virtual environment will be created, which will allow you to use specific versions of the libraries that were used to write Plength.

```
Anaconda Prompt (anaconda3)
                                                                                   X
(base) C:\Users\Tua>conda create -n plength python=3.5
Collecting package metadata (current_repodata.json): done
Solving environment: failed with repodata from current_repodata.json, will retry with next repodata source.
Collecting package metadata (repodata.json): done
Solving environment: done
Anaconda Prompt (anaconda3)
Downloading and Extracting Packages
ertifi-2018.8.24
              | 137 KB
                        setuptools-40.2.0
               497 KB
                        100%
                                                                                100%
ython-3.5.6
                        vincertstore-0.2
               14 KB
                        100%
wheel-0.31.1
pip-10.0.1
               82 KB
                        100%
               1.6 MB
                        Preparing transaction: done
Verifying transaction: done
Executing transaction: done
 To activate this environment, use
    $ conda activate plength
 To deactivate an active environment, use
    $ conda deactivate
(base) C:\Users\Tua>
```

4. Activate the virtual environment

• In the Anaconda prompt, type the following command:

```
conda activate plength
```

It is very important to do this every time before running the Plength script. You will be able to tell that you are in a virtual environment based on the start of the line, which changes from (base) to (plength)

```
(base) C:\Users\Sai>conda activate plength
(plength) C:\Users\Sai>
```

5. Install the required libraries

First you will have to enter the plength folder with the cd command, then install a specific package with conda, then install the rest of the packages with pip.

- cd plength
- conda install llvmlite=0.23.1 (again, type 'y' when prompted)
- pip install .

(Note that the "." is very important!)

After all packages have been installed you should be able to run Plength with the command

```
python plength.py
```

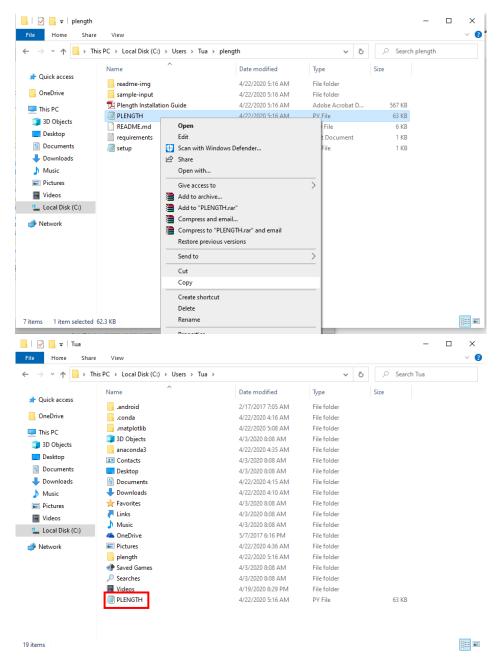
(PLENGTH does not have to be capitalized in Windows computers.)

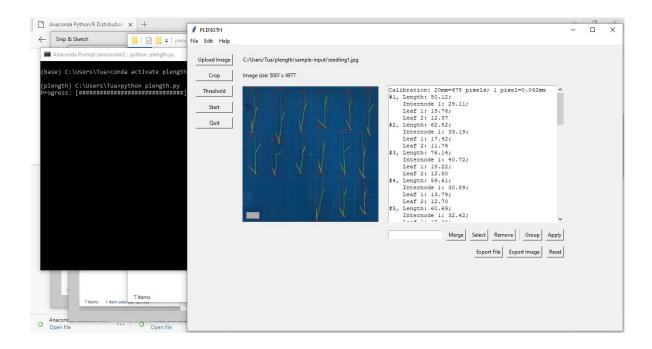
5. Using Plength afterwards

From now on, every time you would like to use Plength, you must

- Open "Anaconda Prompt"
- Type conda activate plength
- Type cd plength
- Type python plength.py

Alternatively, if you move the PLENGTH.py file to your home directory, you can skip the cd plength step.





Happy measuring!