Reference: https://pip.pypa.io/en/stable/installing/#do-i-need-to-install-pip

Installing python

Windows

Download and install Git Bash if you have not, using the instructions here

- https://www.youtube.com/watch?v=339AEqk9c-8
- https://carpentries.github.io/workshop-template/ ('The Bash Shell' section)

Follow this link to install Python if you have not. https://www.python.org/ftp/python/3.7.3/python-3.7.3-amd64.exe

1) Run the installer

2) Uncheck Install launcher for all users

3) Check Add Python 3.7 to PATH

4) Click on Customize installation

5) On the Optional Features screen, uncheck for all users (requires elevation); leave everything else checked.

6) Click Next

7) On the Advanced Options screen, only check Associate... and Create... and Add... options.

8) Click Install

Once the installer has finished, click on the Start button and search for "Python" - you should see a result for Python 3.7 (64 bit)

Mac

TODO - would a mac person be able to do this? https://www.python.org/downloads/mac-osx/

Installing pip package manager

Open a command line prompt and type pip then hit enter. If you get usage instructions for pip, skip to next section.

If your system does not have pip, securely download get-pip.py using a command line prompt:

$ curl https://bootstrap.pypa.io/get-pip.py -o get-pip.py

Then run the following:

python get-pip.py --user

UMAP Installation via pip

```
pip install --upgrade --force-reinstall umap-learn --user
```

Troubleshooting links:

https://github.com/satijalab/seurat/issues/486 https://github.com/satijalab/seurat/issues/631
https://github.com/satijalab/seurat/issues/1020 https://stackoverflow.com/questions/55975266/reticulate-cant-install-python-packages

https://rstudio.github.io/reticulate/articles/python_packages.html