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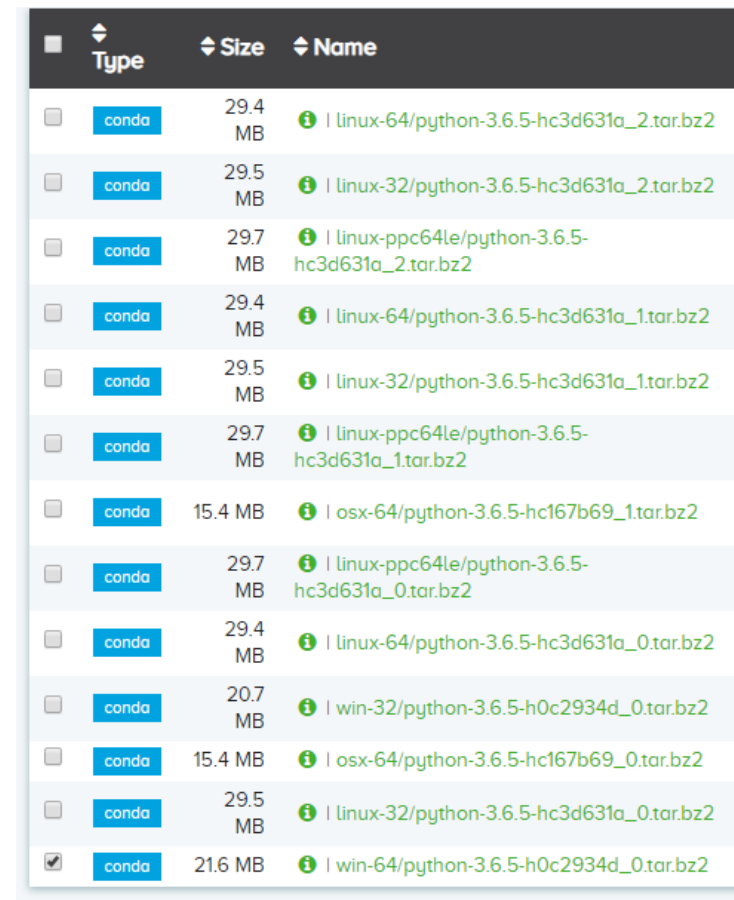
# Python and Pygeostat Installation Guide

March 2019

# Python Installation (1)

- Anaconda is the recommended distribution for Python
  - Popular Python packages are provided with Anaconda
  - [conda](#) package management system can be used to install and manage python packages
  - Although Anaconda does not require admin permissions, it is recommended to acquire admin permissions
- Installation steps (Python 3.6):
  1. Go to the link below
    - <https://anaconda.org/anaconda/python/files?version=3.6.5>
    - Or use:  
[https://repo.anaconda.com/archive/Anaconda3-5.2.0-Windows-x86\\_64.exe](https://repo.anaconda.com/archive/Anaconda3-5.2.0-Windows-x86_64.exe)

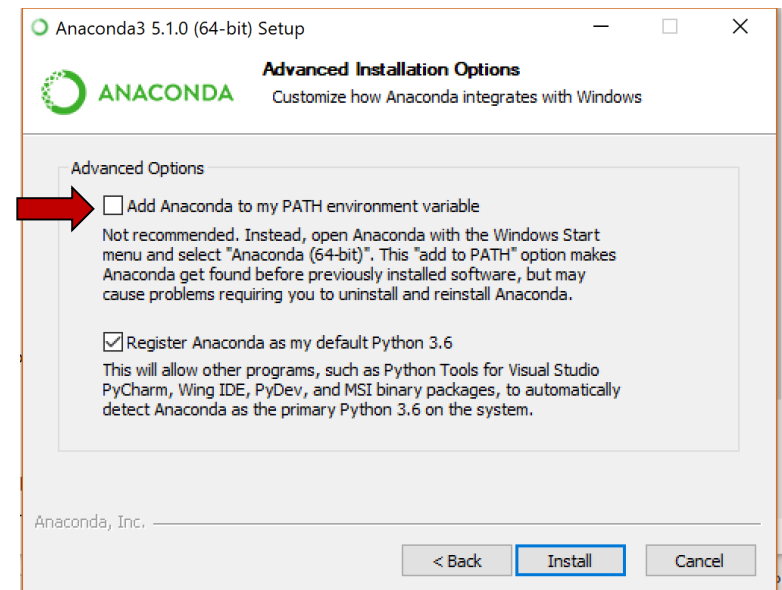
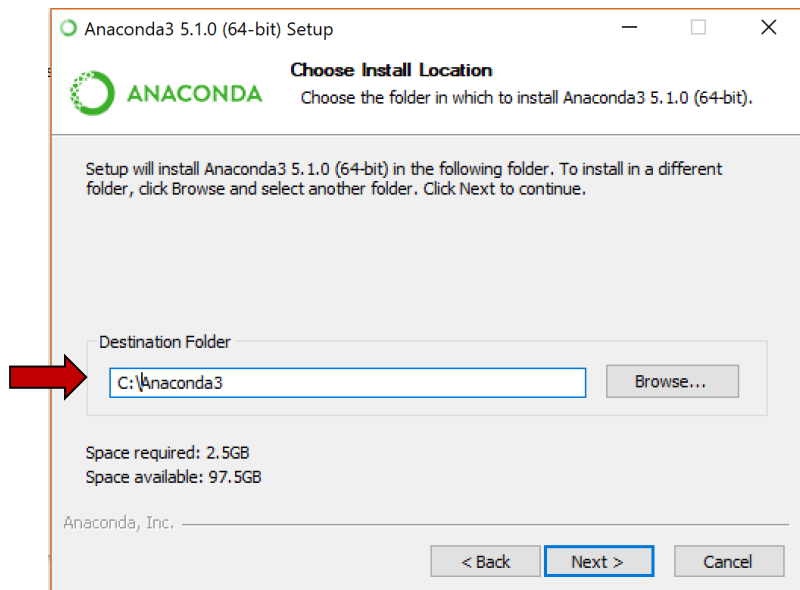
<https://www.anaconda.com/download/>



Type	Size	Name
conda	29.4 MB	linux-64/python-3.6.5-hc3d631a_2.tar.bz2
conda	29.5 MB	linux-32/python-3.6.5-hc3d631a_2.tar.bz2
conda	29.7 MB	linux-ppc64le/python-3.6.5-hc3d631a_2.tar.bz2
conda	29.4 MB	linux-64/python-3.6.5-hc3d631a_1.tar.bz2
conda	29.5 MB	linux-32/python-3.6.5-hc3d631a_1.tar.bz2
conda	29.7 MB	linux-ppc64le/python-3.6.5-hc3d631a_1.tar.bz2
conda	15.4 MB	osx-64/python-3.6.5-hc167b69_1.tar.bz2
conda	29.7 MB	linux-ppc64le/python-3.6.5-hc3d631a_0.tar.bz2
conda	29.4 MB	linux-64/python-3.6.5-hc3d631a_0.tar.bz2
conda	20.7 MB	win-32/python-3.6.5-h0c2934d_0.tar.bz2
conda	15.4 MB	osx-64/python-3.6.5-hc167b69_0.tar.bz2
conda	29.5 MB	linux-32/python-3.6.5-hc3d631a_0.tar.bz2
<input checked="" type="checkbox"/> conda	21.6 MB	win-64/python-3.6.5-h0c2934d_0.tar.bz2

# Python Installation (2)

- Use the executable file to install Anaconda (important panels in the Installation steps displayed below)
  - Install to the following destination folder: `C:\Anaconda3`
  - Although Anaconda recommends otherwise, we recommend that you select the 'Add Anaconda to my PATH environment variable' option
    - Alternatively, if using the installation path that we display below, add `C:\Anaconda3` and `C:\Anaconda3\Scripts` to your USER PATH manually



# Python Installation (3)

- Follow these visual directions to add required directories to your system path (begin by right-clicking on This PC):

- C:/Anaconda3/
- C:/Anaconda3/Scripts/

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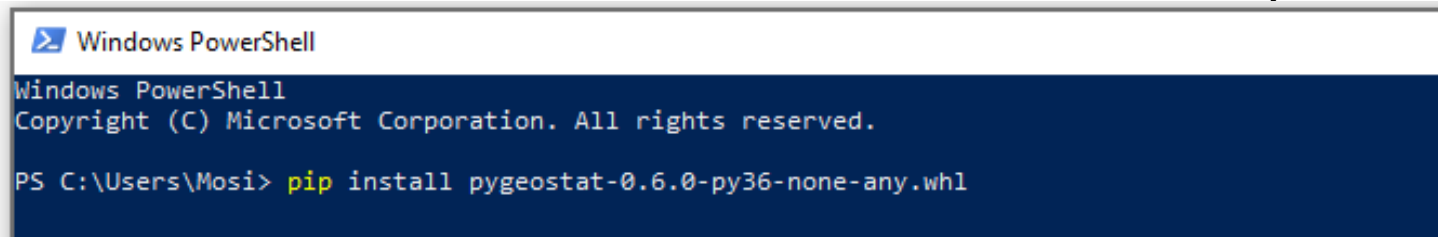
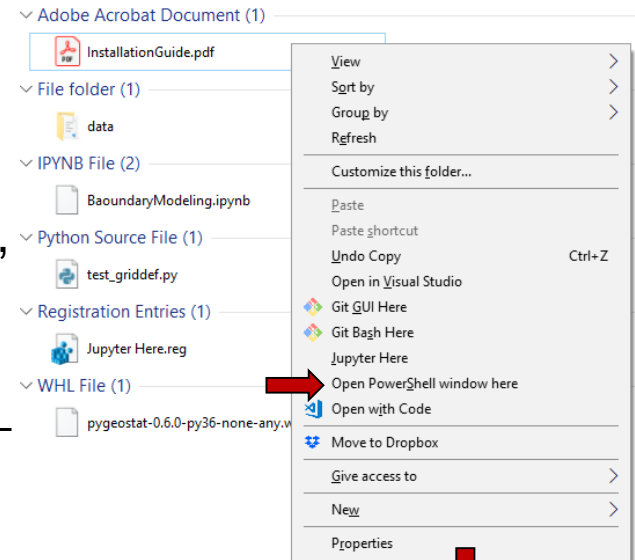
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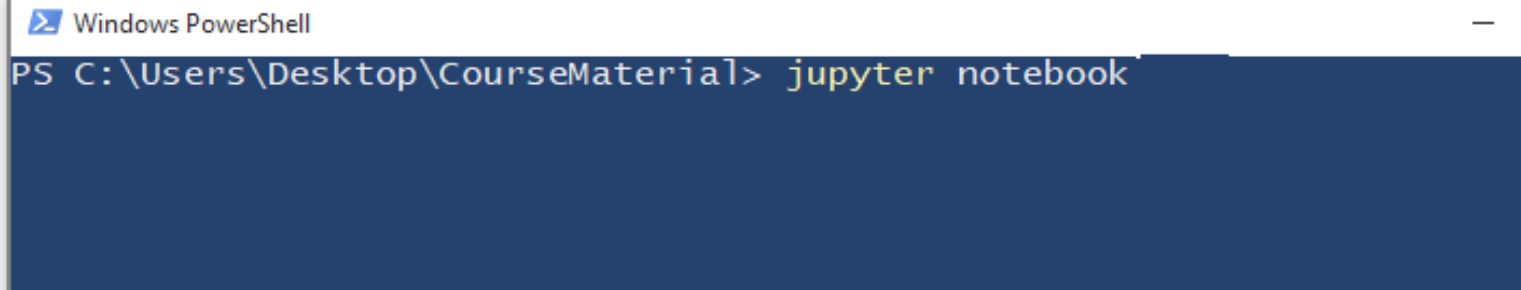
# Pygeostat Installation

- Pygeostat is a Python package from the Centre for Computational Geostatistics (CCG), providing a suite of tools for resource modeling. Installation steps:
  1. Open a PowerShell window within the target folder where you have the wheel distribution file, by holding shift while right clicking
  2. Execute the following command:
    - `pip install pygeostat-x.x.x-py36-none-any.whl`
  3. After the installation completes, ensure that the following line is found in the command line output:
    - Successfully installed `pygeostat-x.xxx.devx`



# Opening Jupyter Notebooks (1)

- Jupyter notebook is a recommended [IDE](#) to run Python scripts, which is installed with Anaconda
- There are two ways to start a Jupyter notebook in a directory/folder
  - Option one:
    - Open a PowerShell window in the directory that you wish to open a script
      - As described on the previous slide
    - Execute the following command:
      - `jupyter notebook`



```
Windows PowerShell
PS C:\Users\Desktop\CourseMaterial> jupyter notebook
```

# Opening Jupyter Notebooks (2)

- Option two (recommended):
  - Double click the provided utility file in the parent directory (`Jupyter Here.reg`)
  - Simply right click in the parent directory and then select `Jupyter Here`

