

Python and Pygeostat Installation Guide

March 2019

Python Installation (1)

- Anaconda is the recommended distribution for Python
 - Popular Python packages are provided with Anaconda
 - <u>conda</u> 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
 - <u>https://anaconda.org/anaconda/python/f</u> iles?version=3.6.5
 - Or use:

https://repo.anaconda.com/archive/Ana conda3-5.2.0-Windows-x86_64.exe https://www.anaconda.com/download/

•	≑ Type	\$ Size	⇔ Name
	conda	29.4 MB	I linux-64/python-3.6.5-hc3d631a_2.tar.bz2
	conda	29.5 MB	I linux-32/python-3.6.5-hc3d631a_2.tar.bz2
	conda	29.7 MB	I linux-ppc64le/python-3.6.5- hc3d631a_2.tar.bz2
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	conda	29.7 MB	I linux-ppc64le/python-3.6.5- hc3d631a_1.tar.bz2
	conda	15.4 MB	I osx-64/python-3.6.5-hc167b69_1.tar.bz2
	conda	29.7 MB	I linux-ppc64le/python-3.6.5- hc3d631a_0.tar.bz2
	conda	29.4 MB	I linux-64/python-3.6.5-hc3d631a_0.tar.bz2
	conda	20.7 MB	I win-32/python-3.6.5-h0c2934d_0.tar.bz2
	conda	15.4 MB	I osx-64/python-3.6.5-hc167b69_0.tar.bz2
	conda	29.5 MB	I linux-32/python-3.6.5-hc3d631a_0.tar.bz2
1	conda	21.6 MB	I win-64/python-3.6.5-h0c2934d_0.tar.bz2

Python Installation (2)

- 3. 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

Anaconda3 5.1.0 (64-bit) Setup	Anaconda3 5.1.0 (64-bit) Setup
Choose Install Location Choose the folder in which to install Anaconda3 5.1.0 (64-bit).	Advanced Installation Options Customize how Anaconda integrates with Windows
Setup will install Anaconda3 5.1.0 (64-bit) in the following folder. To install in a different folder, dick Browse and select another folder. Click Next to continue.	Advanced Options Add Anaconda to my PATH environment variable Not recommended. Instead, open Anaconda with the Windows Start menu and select "Anaconda (64-bit)". This "add to PATH" option makes Anaconda get found before previously installed software, but may cause problems requiring you to uninstall and reinstall Anaconda.
Destination Folder C:\\Anaconda3 Browse	Register Anaconda as my default Python 3.6 This will allow other programs, such as Python Tools for Visual Studio PyCharm, Wing IDE, PyDev, and MSI binary packages, to automatically detect Anaconda as the primary Python 3.6 on the system.
Space required: 2.5GB Space available: 97.5GB Anaconda, Inc	Anaconda, Inc

Python Installation (3)

- Follow these visual directions to add required directories to your system path (begin by right-clicking on This PC):
 - C:/Anaconda3/

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RMB-JGM

> 🛃 SourceCode

ConeDrive

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VersionControl

Manage

Delete Rename Properties

Pin to Start

Map network drive...

Open in new window

Pin to Quick access

Disconnect network drive..

Add a network location

Computer

- C:/Anaconda3/Scripts/

View

This PC

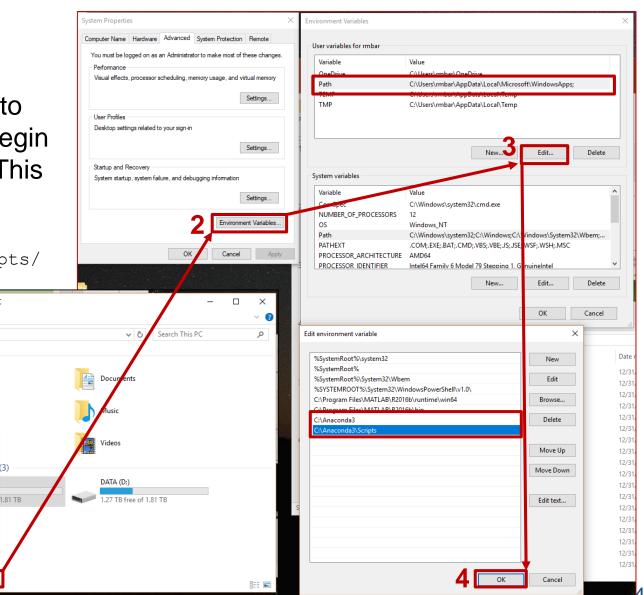
Drive Tools

Manage

Desktop

Downloads

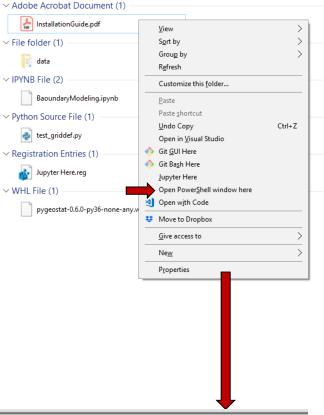
V Folders (6)



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-py36none-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

Windows PowerShell	
Windows PowerShell Copyright (C) Microsoft Corporation. All rights reserved.	
PS C:\Users\Mosi> pip install pygeostat-0.6.0-py36-none-any.whl	



Opening Jupyter Notebooks (1)

- Jupyter notebook is a recommended <u>IDE</u> 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

