How to perform Layer Stacking

This is a simple tool to perform Layer Stacking. Python programming language and GDAL Libraries have been used to develop it. You must have Python and those modules in your computer to use this tool.

In Windows:

Prerequisites to use this tool:

1. Python 2.7
   You may install a Python IDE by opening the link. http://insights.dice.com/2014/09/23/look-5-free-python-editors/ After installing, a folder with title "Python27" is created in the C: drive of your computer. Navigate to C:\Python27\Lib\site-packages and look for "numpy. If you don't find, install NUMPY from the link: http://www.scipy.org/scipylib/download.html

2. GDAL Libraries
   - For 32 bit operating system:
     1. gdal-111-1500-core.msi
        http://download.gisinternals.com/sdk/downloads/release-1500-gdal-1-11-3-mapserver-6-4-2/gdal-111-1500-core.msi
     2. GDAL-1.11.3.win32-py2.7.msi
        http://download.gisinternals.com/sdk/downloads/release-1500-gdal-1-11-3-mapserver-6-4-2/GDAL-1.11.3.win32-py2.7.msi

   - For 64 bit operating system:
     1. gdal-111-1500-x64-core.msi
        http://download.gisinternals.com/sdk/downloads/release-1500-x64-gdal-1-11-3-mapserver-6-4-2/gdal-111-1500-x64-core.msi
     2. GDAL-1.11.3.win-amd64-py2.7.msi
        http://download.gisinternals.com/sdk/downloads/release-1500-x64-gdal-1-11-3-mapserver-6-4-2/GDAL-1.11.3.win-amd64-py2.7.msi

To confirm whether you have all the prerequisites to use this tool or not:

1. Open Command Prompt and type "python" to get into Python Interpreter (type exit() to get back out of the Python interpreter). If you get any error, refer to the following link and rectify them: http://stackoverflow.com/questions/4621255/how-do-i-run-a-python-program-in-the-command-prompt-in-windows-7
2. Now, type "import numpy" in the Python Interpreter. If the python can't find numpy, it says "No module named numpy". Refer to the following site to get rid of this message. http://stackoverflow.com/questions/7818811/import-error-no-module-named-numpy

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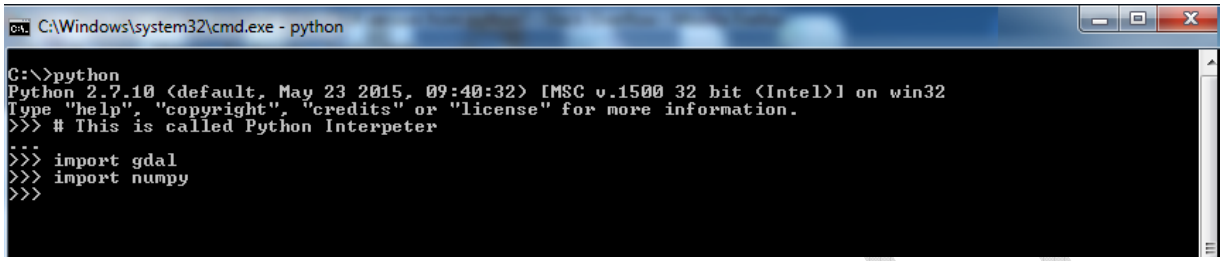
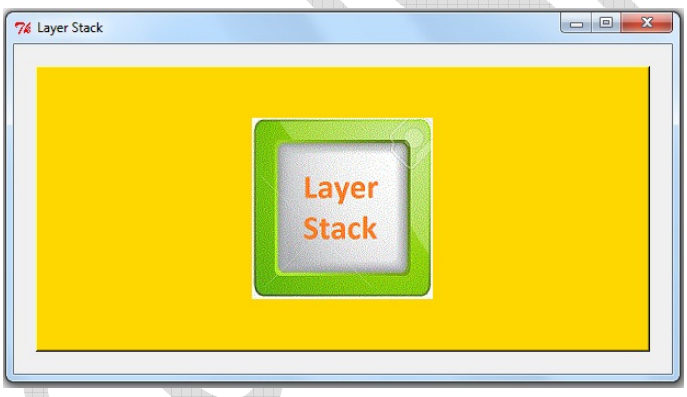
3. Finally, type “import gdal” in the Python Interpreter to see if everything is ok. Please refer to the site and rectify if you find any trouble in importing gdal libraries. https://pythongisandstuff.wordpress.com/2011/07/07/installing-gdal-and-ogr-for-python-on-windows/

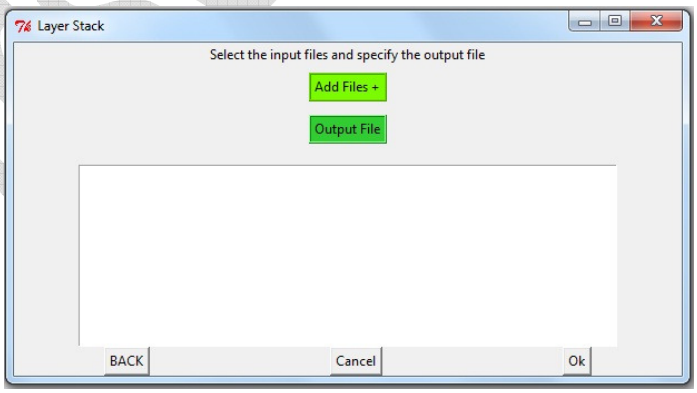


You can start using this tool once you have successfully gone through the above three steps.

To run this tool:

Double click on the file “Stack.pyc” to use this tool.





Disclaimer: *This tool is provided to the user to do the layer stacking (optionally) when they download the data like Resourcesat-1/2 LISSIII, AWiFS data from http://bhuvan.nrsc.gov.in/data . All the above mentioned URLs are for reference purpose only and nrsc / ISRO disowns the responsibility for the correctness of the information.*