## pyg2p Installation Manual

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## **Prerequisites**

In order to run **pyg2p** application, the following python version and packages must be installed¹.

Most packages need additional requirements such as C libraries properly installed on the computer, for the user running the application.

Software Requirement	Purpose	Dependencies	
Python 2.7	Execution environment		
NumPy>=1.8	fast array manipulation	ATLAS + LAPACK libs Python header files gcc and gfortran compilers	
Numexpr>=2.4	Numpy extension for optimal performances	Numpy>=1.8	
SciPy>=0.10	interpolation	ATLAS + LAPACK libs Python header files gcc and gfortran compilers	
gribapi	reading grib files, interpolation	GRIB_API>=1.10.4	
GDAL python	reading and writing pcraster maps	GDAL lib and its requirements.	
untangle 1.1	xml parsing		
memory_profiler (optional)	Memory usage information for test suite.	psutils	

## Installation

- 1. Decompress the file *pyg2p\_v.*<*version*>.*tar.gz* in the <target directory> using tar xzvf *pyg2p\_v.*<*version*>.*tar.gz*.
- 2. cd <target directory> and issue the command **python test\_reqs.py**. If some required packages are missing, install them. If core packages are missing, contact the developer.
- 3. Modify the first line of **pyg2p.py** to point to the desired python interpreter if you will execute the application as **./pyg2p.py**. Otherwise execute the program with **/path/to/python ./ pyg2p.py**
- 4. Configure the application (see Configuration Manual).
- 5. The application is shipped with some preconfigured XML command examples in execution\_templates folder. Just adjust paths and parameters for fire tests. Also, use the -t option for comparing results with the grib2pcraster C application. Read User Manual first.
- 6. Ready to start.

<sup>1</sup> Usage of virtualenv is highly recommended.