

SismoVi ReadMe

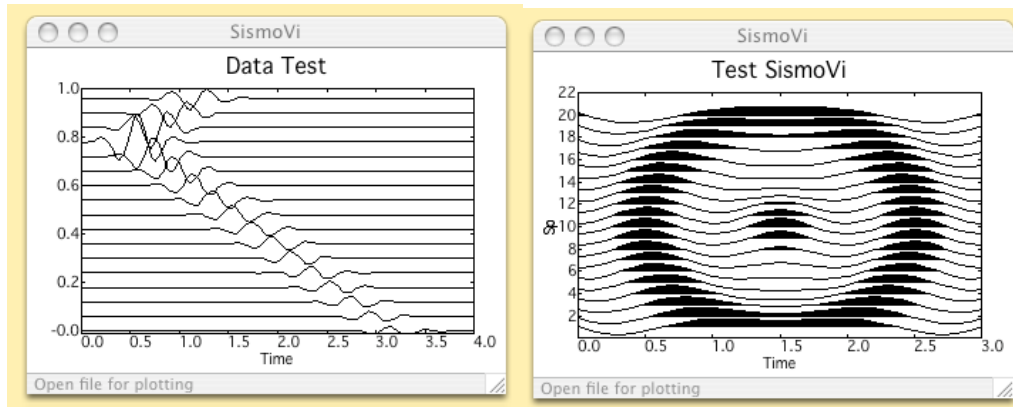
SismoVi is a python tool for the visualization of multiple seismograms (digital signals) based on an interactive GUI. It is portable and platform & os independent.

Visualization parameters can be changed as many times as data plot drawing is needed.

Plot pictures can be saved on various formats. Python knowledge is not needed.

An help on-line is available.

[Plot examples:](#)



[Installation:](#)

SismoVi folder can be copied/moved in any directory.

In your system must be installed the Python interpreter, Numeric library and wxPython GUI toolkit, see <http://www.python.org/>, <http://www.pfdubois.com/numpy/>, <http://wxpython.org/>.

Python, Numeric and wxPython distributions exist for Unix/Linux/Windows/MacOSX platforms, see the web pages.

For Windows exists the Enthought Edition <http://www.enthought.com/downloads/downloads.htm> that allows you to install a lot more python scientific tools in an automatic way.

Run SismoVi clicking on SismoVi.py file or typing the command "python SismoVi.py" from a shell window, depending on your installation.

Read the on-line help for more info clicking on the <Help> button.

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[More Python info for interested users:](#)

Python is an easy to learn language, efficient, open source, portable, free, extendable by libraries.

It is easy to use since it has: i) dynamic typing, ii) automatic memory management, iii) programming support, iv) built-in object types, v) built-in tools, vi) library utilities, vii) third-party utilities.

It allows and can mix: i) procedural programming, ii) oo programming, iii) system progr., iv) GUI progr. (Graphical User Interface progr.), v) internet scripting, vi) module integration (Python, C, C++, Fortran), vii) database progr., viii) rapid prototyping, ix) numeric & scientific progr., x) graphics progr..

1) [links:](#)

<http://www.python.org/>

Python Language

<<http://www.vex.net/paranassus/>> Python Resources

<<http://www.pfdubois.com/numpy/>> Numerical Python

<http://www.stsci.edu/resources/software_hardware/numarray> numarray library

<<http://dirac.cnrs-orleans.fr/ScientificPython/>> ScientificPython

< <http://cens.ioc.ee/projects/f2py2e/> > *Fortran to Python interface generator*

<<http://www.scipy.org/>> Scientific tools for Python

<<http://astrosun.tn.cornell.edu/staff/loredo/python.html>> Tom Loredo's Python links (more stuff ...)

2) Graphics:

<http://pyx.sourceforge.net/> PyX - Python graphics package

<http://gnuplot-py.sourceforge.net/> Gnuplot.py

<http://matplotlib.sourceforge.net/> matplotlib is a python 2D plotting library

<http://efault.net/npat/hacks/ppgplot/> PGPLOT graphic

<http://www.plplot.org/> PLplot — a Scientific Plotting Library

<http://www.idyll.org/~n8gray/code/index.html> Interactive plotting with Grace (<http://plasma-gate.weizmann.ac.il/Grace/>)

<<http://vpython.org/>> Visual python

<<http://www.wxpython.org/>> wxPython

<<http://public.kitware.com/VTK/>> VTK libraries

<<http://mayavi.sourceforge.net/>> The MayaVi Data Visualizer

2) Docs, on-line manuals, books:

<<http://www.python.org/doc/current/tut/tut.html>>

<<http://www.python.org/topics/learn/>>

<<http://dirac.cnrs-orleans.fr/~hinsen/courses.html>> Courses and Lecture Notes

<<http://diveintopython.org/>> *Dive Into Python* is a free Python book

<<http://www.python.org/topics/learn/non-prog.html>>

<<http://www-teaching.physics.ox.ac.uk/computing/Programming/Python/Oxford/html/>> Handbook of the Physics Computing Course (Python)

Recommended books:

- [Learning Python](#), by Mark Lutz and David Ascher, O'Reilly, 2nd Edition, 2003. ISBN: 0-596-00281-5.
- [Python in a Nutshell](#), by Alex Martelli, 2003 O'Reilly, ISBN- 0-596-00188-6,
- [Python Scripting for Computational Science](#), by Hans Petter Langtangen, Springer 2004, ISBN: 3-540-43508-5
Series: [Texts in Computational Science and Engineering](#), Vol. 3