所有 Python 第三方 package 目录: https://pypi.python.org/pypi?:action=browse&c=533&show=all

The intent of this page is to list some of the most commonly used Python modules, in the hope that it will provide useful recommendations for other programmers (especially beginners). Remember that in addition to the listings below, there are other directories of Python modules - see PublishingPythonModules for details. Another collection of library details can be found on the Libraries page.

Be warned that this list is subjective by its very nature - it is only intended as a helpful guide. It is not definitive in any way, nor should it discourage developers from developing their own modules.

# Standard Library Backports

 StandardLibraryBackports - modules that make later standard library functionality available in earlier version

# Cryptography

Python and Cryptography

## Database

- SQLAlchemy or SQLObject Object oriented access to several different database systems
- DatabaseInterfaces Direct Python interfaces to relational and non-relational database backends
- See also DatabaseProgramming for guidance on choosing a database backend system

# Foreign Function Interface

- CTypes A package for calling the functions of dlls/shared libraries. Now included with Python
   2.5 and up.
- Cython is an extension language for the CPython runtime. It translates Python code to fast C code and supports calling external C and C++ code natively. As opposed to ctypes, it requires a C compiler to translate the generated code.

# Game Development

- PyGame Principal wrapper of the SDL library.
- See also GameProgramming. A more comprehensive list of packages can be found on the PythonGameLibraries page.

## GIS (Geographic Information System)

GIS Web services - Packages to access to Google Maps, Yahoo! Mapsâ€Â¹ and more information

### GUI

- PyGtk Bindings for the cross-platform Gtk toolkit.
- PyQt Bindings for the cross-platform Qt framework.
- TkInter The traditional Python user interface toolkit.
- WxPython wxWidgets bindings for Python supporting PythonCard, Wax and other frameworks.
- PyjamasDesktop Bindings and a framework for the cross-platform webkit.
- GUI Programming is, in many cases, a matter of taste. See a more extensive list on the GuiProgramming page.

### Console

Ascii Table packages

### Audio / Music

Audio in Python

## ID3 Handling

- Mutagen Mutagen is a Python module to handle audio metadata. It supports FLAC, M4A, Musepack, MP3, Ogg FLAC, Ogg Speex, Ogg Theora, Ogg Vorbis, True Audio, and WavPack audio files. All versions of ID3v2 are supported, and all standard ID3v2.4 frames are parsed. It can read Xing headers to accurately calculate the bitrate and length of MP3s. ID3 and APEv2 tags can be edited regardless of audio format. It can also manipulate Ogg streams on an individual packet/page level. It only writes ID3v2.4 (introduced in 2000, but as of Windows 8 still not supported by MediaPlayer).
- ID3Reader "Id3reader.py is a Python module that reads ID3 metadata tags in MP3 files. It can read ID3v1, ID3v2.2, ID3v2.3, or ID3v2.4 tags. It does not write tags at all" (from site). Used in ID3Writer. Does not work with Python 3000. Not maintained since 2006.
- PyID3 ""(Appears to be inactive)""Module for manipulating ID3 informational tags in MP3
  audio files. Not as good as ID3Writer, but no issues w/ genre, unlike ID3Writer. Not maintained
  since 2007.
- pytagger tag reader and writer implemented purely in Python. Supports ID3v1, ID3v1.1, ID3v2.2, ID3v2.3 and ID3v2.4
- eyeD3 is a Python module and program for processing ID3 tags. It can extract information such as bit rate, sample frequency, play time, etc. It supports ID3 v1.0/v1.1 and v2.3/v2.4.

- hsaudiotag Py3k hsaudiotag is a pure Python library that lets you read metadata (bitrate, sample rate, duration and tags) from mp3, mp4, wma, ogg, flac and aiff files. It can only read tags, not write to them, but unlike more complete libraries (like Mutagen), it is BSD licensed.
- pytaglib Python 3.x and 2.x support bindings to the C++ taglib library, reads and writes mp3,
   ogg, flac, mpc, speex, opus, WavPack, TrueAudio, wav, aiff, mp4 and asf files.

## Image Manipulation

- Python Imaging Library (PIL) Supports many file formats, and provides powerful image processing and graphics capabilities.
- pyqtgraph Pure-python graphics library for scientific applications with image/video display, multidimensional image slicing, and interactive manipulation tools.

## Indexing and Searching

InformationRetrieval

### Java

Java scripting

## Networking

- asyncoro Asynchronous, concurrent programming framework with coroutines with thread-like interface
- Gevent Coroutine-based network library
- TwistedMatrix Event-driven networking framework
- RPyC Transparent RPC/distributed-computing framework
- PyRO powerful OO RPC
- HTTPLib2 A comprehensive HTTP client library that supports many features left out of other HTTP libraries, like httplib on the standard library.
- Celery Distributed task queue for out of band processing/RPC and more.

# Platform-Specific

- Psyco Psyco can speed up the execution of any Python code (x86 only).
- PyInstaller Packages Python programs into stand-alone executables, under Windows, Linux and Irix.

### Mac

- py2app Creates stand-alone apps (like py2exe for Mac)
- PyObjC Bridge between the Python and Objective-C. Most important usage of this is writing Cocoa GUI applications on Mac OS X in pure Python

#### Windows

- PyWin32 Python extensions for Windows.
- Py2exe Converts python scripts into executable windows programs, able to run without requiring a python installation.

### Plotting

- Chaco Creates interactive plots
- gnuplot.py Based on gnuplot
- Matplotlib Production quality output in a wide variety of formats
- Plotly Interactive, publication-quality, web based charts
- PyX Postscript and PDF output, (La)TeX integration
- ReportLab includes a charting package
- Veusz Postscript output with a PyQt front end
- pyqtgraph Pure-python plotting and graphics library based on PyQt and numpy.

The SciPy topical software page has a longer list.

### Presentation

- http://docutils.sourceforge.net/docs/user/tools.html#rst2s5-py Create HTML slides from .rst
- http://seld.be/notes/introducing-slippy-html-presentations For your Python presentations in browser

# **RDF** Processing

• See RdfLibraries for a list of available RDF processing solutions.

## Scientific

- Visual Python Offers real-time 3D output, is easily usable by novice programmers, excellent for physics.
- SciPy Includes modules for graphics and plotting, optimization, integration, special functions, signal and image processing, genetic algorithms, ODE solvers, and others.
- Python Bindings for R R is a well known, open source (GPL 2) statistical package. RPy has
  two versions. Version 2 is still in development but is already usable.
- numpy
- PyIMSL is a collection of Python wrappers to the mathematical and statistical algorithms in the IMSL C Numerical Library. Developers can use Python, PyIMSL and the IMSL C Numerical Library for rapid prototyping. PyIMSL Studio is a complete packaged, supported and documented development environment designed for deploying mathematics and statistics

prototype models into production applications. PyIMSL Studio includes the PyIMSL wrappers, the IMSL C Numerical Library, a Python distribution and a selection of open source python modules useful for prototype analytical development. PyIMSL Studio is available for download at no charge for non-commercial use or for commercial evaluation.

## Standard Library Enhancements

- Python Path Wraps the functionality of the os.path module and provides something more convenient.
- Requests An improvement upon urllib etc., for sending HTTP requests.
- Dateutil Provides powerful extensions to the datetime module.
- sh Can call any external program as if it were a function.
- DocOpt Command line arguments parser, with declarative approach (docstring).
- PyLibrary Collection of Libraries useful for Python developers.

## Threading

- ThreadPool Intuitive approach to threads, well-explained.
- See the ParallelProcessing page for other multiprocessing or parallel processing approaches.

# System administration

• psutil - cross-platform library for retrieving information on running processes and system utilization (CPU, memory, disks, network) in Python.

## Web Development

- Django High-level web framework.
- Pyramid Turbogears, Pylons, Repoz.bfg merged as Pyramid.
  - o TurboGears Rapid web development megaframework.
  - o Pylons A lightweight web framework emphasizing flexibility and rapid development.
- web2py High-level framework for agile development.
- Flask microframework for Python based on Werkzeug, Jinja 2. (It's BSD licensed)
- See a more complete list of topics on the WebProgramming page and frameworks on the WebFrameworks page.

# HTML Forms

- ClientForm "ClientForm is a Python module for handling HTML forms on the client side, useful for parsing HTML forms, filling them in and returning the completed forms to the server. It developed from a port of Gisle Aas' Perl module HTML::Form, from the libwww-perl library, but the interface is not the same." from the website.
- FormEncode

- Ixml.html has support for dealing with forms in HTML documents
- See also the WebProgramming and WebFrameworks pages.

### HTML Parser

- Beautiful Soup HTML/XML parser designed for quick turnaround projects like screenscraping, will accept bad markup.
- PyQuery implements jQuery in Python; faster than BeautifulSoup, apparently.
- mxTidy HTML cleanup tool. This is a library version of the popular HTML Tidy command-line application which will convert HTML (even badly formatted) into e.g. XHTML.
- lxml.html is a very fast, easy-to-use and versatile library for handling (and fixing up) HTML
- See also PythonXml for related tools.

### Workflow

- openflow A workflow engine for Zope 2.
- Goflow A workflow engine for Django, with same design as openflow.

## XML Processing

- ElementTree The Element type is a simple but flexible container object, designed to store
  hierarchical data structures, such as simplified XML infosets, in memory. --Note: Python 2.5
  and up has ElementTree in the Standard Library--
- Ixml is a very fast, easy-to-use and versatile library for XML handling that is mostly compatible
  with but much more feature-rich than ElementTree
- Amara Amara provides tools you can trust to conform with XML standards without losing the familiar Python feel. (see also the 1.x version)
- PythonXml provides a list of available XML processing solutions.

# Flow Based Programming

• Python and Flow Based Programming (pipelines)