
Easy-Python Documentation

Release 0.1

Shipeng Feng

July 21, 2014

1	Libraries And Resources	3
1.1	Libraries	3
1.2	Resources	9
2	Contribute	11

Easy-Python is a list of awesome things you didn't know you would need.

Libraries And Resources

1.1 Libraries

This part focuses on libraries.

1.1.1 Package Management

Libraries for package and dependency management.

- [Setuptools](#) - a fully-featured library designed to facilitate packaging Python projects
- [pip](#) - The PyPA recommended tool for installing Python packages

1.1.2 Framework

Web development frameworks.

- [django](#) - The Web framework for perfectionists with deadlines
- [tornado](#) - A Python web framework and asynchronous networking library
- [pyramid](#) - Pyramid web framework

1.1.3 Framework Extras

Extras related to web development frameworks.

- [django-debug-toolbar](#) - django-debug-toolbar
- [django-social-auth](#) - Django social authentication made simple
- [django-extensions](#) - A collection of custom extensions
- [django-crispy-forms](#) - The best way to have DRY Django forms
- [django-allauth](#) - Django-allauth
- [django-compressor](#) - Compresses linked and inline javascript or CSS
- [django-reversion](#) - Provides comprehensive version control facilities
- [django-taggit](#) - Simple tagging for django

1.1.4 Micro Frameworks

Micro frameworks and routers.

- [Flask](#) - A microframework based on Werkzeug, Jinja 2 and good intentions
- [Bottle](#) - A fast, simple and lightweight WSGI micro web-framework
- [web.py](#) - A web framework for Python that is as simple as it is powerful

1.1.5 Micro Framework Extras

Extras related to micro frameworks and routers.

- [Flask-Extensions](#) - Flask extensions

1.1.6 Framework Components

Standalone component for web development.

- [Werkzeug](#) - The Python WSGI Utility Library
- [WebOb](#) - WSGI request and response objects

1.1.7 Templating

Libraries and tools for templating.

- [Jinja2](#) - A full featured template engine for Python
- [Mako](#) - Mako Templates for Python

1.1.8 Static Site Generators

Tools for pre-processing content to generate web pages.

- [pelican](#) - Static site generator that supports Markdown and reST syntax
- [Cactus](#) - Static site generator for designers
- [hyde](#) - A Python Static Website Generator

1.1.9 Content Management System

Content management platforms.

- [django CMS](#) - The easy-to-use and developer-friendly CMS
- [wagtail](#) - A new Django content management system
- [mezzanine](#) - A content management platform built using the Django framework
- [Plone](#) - A robust, secure, enterprise level CMS

1.1.10 HTTP and Web Crawling

Libraries for working with HTTP and scraping websites.

- [requests](#) - Python HTTP Requests for Humans
- [httpie](#) - A command line HTTP client, a user-friendly cURL replacement
- [scrapy](#) - A fast high-level screen scraping and web crawling framework
- [pattern](#) - Pattern is a web mining module for Python
- [pyquery](#) - A jquery-like library for python
- [portia](#) - Visual scraping for Scrapy
- [Beautiful Soup](#) - Designed for quick turnaround projects like screen-scraping

1.1.11 Email

Libraries for sending and parsing email.

- [mailinabox](#) - Take back control of your email

1.1.12 Files

Libraries for file manipulation.

- [Tablib](#) - Pythonic Tabular Datasets
- [q](#) - Run SQL directly on CSV or TSV files

1.1.13 Feeds

Libraries for feeds parsing.

- [feedparser](#) - Parse Atom and RSS feeds in Python

1.1.14 Dependency Injection

Libraries that implement the dependency injection design pattern.

- [pinject](#) - A pythonic dependency injection library

1.1.15 Image

Libraries for manipulating images.

- [Pillow](#) - Python Imaging Library (Fork)

1.1.16 Testing

Libraries for testing codebases and generating test data.

- [tox](#) - Standardize testing in Python
- [nose](#) - nose is nicer testing for python
- [pytest](#) - A mature full-featured Python testing tool
- [Huxley](#) - A test-like system for catching visual regressions in Web applications
- [faker](#) - A Python package that generates fake data for you
- [sqlmap](#) - Automatic SQL injection and database takeover tool
- [buildbot](#) - Python-based continuous integration testing framework

1.1.17 Documentation

Libraries for generating project documentation.

- [Sphinx](#) - Python documentation generator

1.1.18 Security

Libraries for security.

- [itsdangerous](#) - Various helpers to pass trusted data to untrusted environments

1.1.19 Code Analysis

Libraries and tools for analysing codebases.

- [pep8](#) - Simple Python style checker in one Python file

1.1.20 Asset Management

Tools for managing, compressing and minifying website assets.

- [webassets](#) - Asset management for Python web development.

1.1.21 Geolocation

Libraries for geocoding addresses and working with latitudes and longitudes.

- [geopy](#) - A Geocoding Toolbox for Python

1.1.22 Date and Time

Libraries for working with dates and times.

- [arrow](#) - Better dates & times for Python

1.1.23 Event

Libraries that are event-driven or implement non-blocking event loops.

- [gevent](#) - A coroutine-based Python networking library

1.1.24 Logging

Libraries for generating and working with log files.

- [logbook](#) - A cool logging replacement for Python

1.1.25 PDF

Libraries and software for working with PDF files.

- [xhtml2pdf](#) - HTML/CSS to PDF converter based on Python
- [pdfminer](#) - Python PDF Parser

1.1.26 ORM and Datamapping

Libraries that implement object-relational mapping or datamapping techniques.

- [SQLAlchemy](#) - The Python SQL Toolkit and Object Relational Mapper
- [peewee](#) - A small, expressive orm

1.1.27 NoSQL

Libraries for working with “NoSQL” backends.

- [redis-py](#) - Redis Python Client
- [PyMongo](#) - Python distribution containing tools for working with MongoDB

1.1.28 Queue

Libraries for working with event and task queues.

- [Celery](#) - Distributed Task Queue
- [RQ](#) - Simple job queues for Python backed by Redis

1.1.29 Search

Libraries and software for indexing and performing search queries on data.

- [Mailpile](#) - An experimental indexing and search engine for e-mail

1.1.30 Command Line

Libraries for building command line utilities.

- [click](#) - Python composable command line utility
- [docopt](#) - Pythonic command line arguments parser, that will make you smile
- [clint](#) - Python Command-line Application Tools

1.1.31 Authentication

Libraries for implementing authentications schemes.

- [oauthlib](#) - A generic implementation of the OAuth request-signing logic
- [rauth](#) - A Python library for OAuth 1.0/a, 2.0, and OpenID

1.1.32 Markup

Libraries for working with markup.

- [Docutils](#) - Documentation Utilities
- [python-markdown2](#) - A fast and complete implementation of Markdown

1.1.33 Text and Numbers

Libraries for parsing and manipulating text and numbers.

- [NumPy](#) - The fundamental package for scientific computing with Python
- [TextBlob](#) - Simple, Pythonic, text processing–Sentiment analysis

1.1.34 REST and API

Libraries and web tools for developing REST-ful APIs.

- [eve](#) - REST API framework powered by Flask, MongoDB and good intentions
- [django-rest-framework](#) - Awesome web-browseable Web APIs for Django
- [sandman](#) - Sandman “makes things REST”

1.1.35 Caching

Libraries for caching data.

- [beaker](#) - WSGI middleware for sessions and caching

1.1.36 Deployment

Libraries for deployment and IT automation.

- [supervisor](#) - Supervisor process control system for UNIX
- [Gunicorn](#) - A Python WSGI HTTP Server for UNIX
- [ansible](#) - A radically simple IT automation platform
- [salt](#) - Infrastructure automation and management system
- [fabric](#) - Simple, Pythonic remote execution and deployment

1.1.37 Extra Things

Useful libraries or tools that don't fit in the categories above.

- [virtualenv](#) - Virtual Python Environment builder
- [Blinker](#) - Fast & simple object-to-object and broadcast signaling
- [sentry](#) - A realtime, platform-agnostic error logging and aggregation platform
- [sshuttle](#) - Transparent proxy server that works as a poor man's VPN
- [pandas](#) - Flexible and powerful data analysis / manipulation library
- [plan](#) - Cron jobs in Python
- [ajenti](#) - The web admin panel everyone wants
- [sh](#) - Python process launching
- [glances](#) - Glances an Eye on your system
- [deis](#) - Your PaaS. Your Rules
- [kivy](#) - Open source software library for creating NUI applications
- [matplotlib](#) - Plotting with Python
- [NLTK](#) - The Natural Language Toolkit

1.2 Resources

This part focuses on resources.

1.2.1 Websites

Useful Python-related websites and newsletters.

- [The Python Tutorial](#) - This is the official tutorial
- [python-guide](#) - Python best practices guidebook, written for Humans
- [Pycoder's Weekly](#) - Your weekly dose of all things Python
- [Python Weekly](#) - Staying up to date with all the exciting things

1.2.2 Books

Fantastic books and e-books.

- [Learn Python The Hard Way](#) - An excellent beginner programmer's guide to Python
- [Dive Into Python](#) - Python from novice to pro
- [Pro Python](#) - Expert's Voice in Open Source
- [Expert Python Programming](#) - Focused on the more advanced crowd
- [Full Stack Python](#) - Web development and deployment resources
- [PythonBooks](#) - Directory of free Python ebooks

1.2.3 Blogs

Excellent writings and thoughts.

- [Armin Ronacher's Thoughts and Writings](#) - by Armin Ronacher

1.2.4 Videos

Great talks.

- [pyvideo](#) - Python related video indexed so you can find it
- [py-must-watch](#) - Must-watch videos about Python

Contribute

Pull requests are welcomed, you'd better follow the following rules:

- Library should belong to a general category (not twitter api stuff)
- Do not upload a duplicate
- Library should be mature, widely used, tested and documented
- Keep descriptions short

Thank you for your suggestions!