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# <u>python</u>™

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# **Applications for Python**

Python is used in many application domains. Here's a sampling.

• The <u>Python Package Index</u> lists thousands of third party modules for Python.

### Web and Internet Development

Python offers many choices for web development:

- Frameworks such as <u>Django</u> and <u>Pyramid</u>.
- Micro-frameworks such as Flask and Bottle.
- Advanced content management systems such as Plone and django CMS.

Python's standard library supports many Internet protocols:

- HTML and XML
- ISON
- E-mail processing.
- Support for FTP, IMAP, and other Internet protocols.
- Easy-to-use socket interface.

And the Package Index has yet more libraries:

- Requests, a powerful HTTP client library.
- Beautiful Soup, an HTML parser that can handle all sorts of oddball HTML.
- Feedparser for parsing RSS/Atom feeds.
- Paramiko, implementing the SSH2 protocol.
- Twisted Python, a framework for asynchronous network programming.

### **Scientific and Numeric**

Python is widely used in <u>scientific and numeric</u> computing:

- <u>SciPy</u> is a collection of packages for mathematics, science, and engineering.
- Pandas is a data analysis and modeling library.
- IPython is a powerful interactive shell that features easy editing and recording of a work session, and supports visualizations and parallel computing.
- The <u>Software Carpentry Course</u> teaches basic skills for scientific computing, running bootcamps and providing open-access teaching materials.

# **Education**

Python is a superb language for teaching programming, both at the introductory level and in more advanced courses.

- Books such as <u>How to Think Like a Computer Scientist</u>, <u>Python Programming: An Introduction to Computer Science</u>, and <u>Practical Programming</u>.
- The <u>Education Special Interest Group</u> is a good place to discuss teaching issues.

# **Desktop GUIs**

The Tk GUI library is included with most binary distributions of Python.

Some toolkits that are usable on several platforms are available separately:

- wxWidgets
- **Kivy**, for writing multitouch applications.
- Qt via pyqt or pyside

Platform-specific toolkits are also available:

- GTK+
- Microsoft Foundation Classes through the win32 extensions

### **Software Development**

Python is often used as a support language for software developers, for build control and management, testing, and in many other ways.

- SCons for build control.
- <u>Buildbot</u> and <u>Apache Gump</u> for automated continuous compilation and testing.
- Roundup or Trac for bug tracking and project management.

### **Business Applications**

Python is also used to build ERP and e-commerce systems:

- Odoo is an all-in-one management software that offers a range of business applications that form a complete suite of enterprise management applications.
- Tryton is a three-tier high-level general purpose application platform.

Tweets by @ThePSF

### The PSF

The Python Software Foundation is the organization behind Python. Become a member of the PSF and help advance the software and our mission.

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