```
# Python 3: Fibonacci series up to n
>>> def fib(n):
>>> a, b = 0, 1
>>> while a < n:
>>> print(a, end=' ')
>>> a, b = b, a+b
>>> print()
>>> fib(1000)
0 1 1 2 3 5 8 13 21 34 55 89 144 233 377 610 987
```

Functions Defined

The core of extensible programming is defining functions. Python allows mandatory and optional arguments, keyword arguments, and even arbitrary argument lists. <u>More about defining functions in Python 3</u>

Python is a programming language that lets you work quickly and integrate systems more effectively. >>> Learn More

() Get Started

Whether you're new to programming or an experienced developer, it's easy to learn and use Python.

Start with our Beginner's Guide (/about/gettingstarted/)

Download

Python source code and installers are available for download for all versions!

Latest: Python 3.12.5 (/downloads/release/python-3125/)

Docs

Documentation for Python's standard library, along with tutorials and guides, are available online.

docs.python.org (https://docs.python.org)

Jobs

Looking for work or have a Python related position that you're trying to hire for? Our **relaunched community-run job board** is the place to go.

jobs.python.org (//jobs.python.org)

■ Latest News	
2024-08-07	Security Developer-in-Residence role extended thanks to Alpha-Omega (https://pyfound.blogspot.com/2024/08/security-developer-in-residence-role.html)
2024-08-07	Python 3.12.5 released (https://pythoninsider.blogspot.com/2024/08/python-3125-released.html)
2024-08-01	Python 3.13.0 release candidate 1 released (https://pythoninsider.blogspot.com/2024/08/python-3130-release-candidate-1-released.html)
2024-07-26	Notice of Python Software Foundation Bylaws change, effective 10 August 2024 (https://pyfound.blogspot.com/2024/07/notice-of-python-software-foundation.html)
2224.27.26	Python's Supportive and Welcoming Environment is Tightly Coupled to Its Progress

■ Upcoming Events		
2024-08-16	SheDevelopers: Python Mastery Workshop 1st Edition (/events/python-user-group/1830/)	
2024-08-21	PyCon Somalia 2024 (/events/python-events/1785/)	
2024-08-23	Kiwi PyCon XIII (/events/python-events/1716/)	
2024-08-26	FuroSciPv 2024 (/events/nython-events/1768/)	

Success Stories

2024-08-26

2024-07-26

"Python is all about automating repetitive tasks, leaving more time for your other SEO efforts." (/success-stories/python-seo-link-analyzer/)

<u>Using Python scripts to analyse SEO and broken links on your site (/success-stories/python-seo-link-analyzer/)</u> by Marnix de Munck

(https://pyfound.blogspot.com/2024/07/pythons-supportive-and-welcoming.html)

Use Python for...

Web Development:

 $\underline{Django\,(http://www.djangoproject.com/)}\,\,,\,\,\,\underline{Pyramid\,(http://www.pylonsproject.org/)}\,\,,\,\,\,\underline{Bottle\,(http://bottlepy.org)}\,\,,\,\,\,\underline{Tornado\,(http://tornadoweb.org)}\,\,,\,\,\,\underline{Flask\,(http://flask.pocoo.org/)}\,\,,\\ \underline{web2py\,(http://www.web2py.com/)}\,\,,\,\,\,\underline{Pyramid\,(http://www.pylonsproject.org/)}\,\,,\,\,\,\underline{Pyramid\,(http://tornadoweb.org)}\,\,,\,\,\,\underline{Pyramid\,(http://tornadoweb.org)}\,\,,\,\,\,\underline{Pyramid\,(http://tornadoweb.org)}\,\,,\,\,\underline{Pyramid\,(http://tornadowe$

GUI Development:

 $\frac{\text{tkInter}(\text{http://wiki.python.org/moin/TkInter})}{\text{PySide}(\text{https://wiki.qt.io/PySide})}, \frac{\text{PyGObject}(\text{https://wiki.gnome.org/Projects/PyGObject})}{\text{PySide}(\text{https://wiki.qt.io/PySide})}, \frac{\text{PyQt}(\text{http://www.riverbankcomputing.co.uk/software/pyqt/intro})}{\text{PySide}(\text{https://wiki.qt.io/PySide})}, \frac{\text{Nivy}(\text{https://kivy.org/})}{\text{Nivy}(\text{https://kivy.org/})}, \frac{\text{Nivy}(\text{https://kivy.org/})}{\text{Nivy}$

Scientific and Numeric:

SciPy (http://www.scipy.org) , Pandas (http://pandas.pydata.org/) , IPython (http://ipython.org)

PyHEP.dev 2024 (/events/python-events/1742/)

$\underline{Buildbot(\underline{http://buildbot.net/})}, \underline{Trac(\underline{http://trac.edgewall.org/})}, \underline{Roundup(\underline{http://roundup.sourceforge.net/})}$ **System Administration**: $\underline{Ansible\,(http://www.ansible.com)}\,\,,\,\,\underline{Salt\,(https://saltproject.io)}\,\,,\,\,\underline{OpenStack\,(https://www.openstack.org)}\,\,,\,\,\underline{xonsh\,(https://xon.sh)}$ Python Enhancement Proposals (PEPs) (/dev/peps/): The future of Python is discussed here. RSS (/dev/peps/peps.rss) Python Software Foundation (/psf/) The mission of the Python Software Foundation is to promote, protect, and advance the Python programming language, and to support and facilitate the growth of a diverse and international community of Python programmers. >>> Learn more (/psf/) Become a Member (/users/membership/) Donate to the PSF (/psf/donations/) **Back to Top ⚠** Back to Top

Software Development:

Copyright ©2001-2024. Python Software Foundation Legal Statements Privacy Policy