

> [Launch Interactive Shell](#)

```
# 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. [More about defining functions in Python 3](#)

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 3.13.5 \(/downloads/release/python-3135/\)](#).

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

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- 2025-07-09 [PSF News: PyPI Orgs, Board Election, & Yearly Reports \(https://mailchi.mp/python/python-software-foundation-july-2024-newsletter-19880429\)](https://mailchi.mp/python/python-software-foundation-july-2024-newsletter-19880429).
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- 2025-07-08 [Notice of Python Software Foundation Bylaws Change - Effective July 23, 2025 \(https://pyfound.blogspot.com/2025/07/notice-of-python-software-foundation.html\)](https://pyfound.blogspot.com/2025/07/notice-of-python-software-foundation.html).
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- 2025-07-08 [Python 3.14.0 beta 4 is here! \(https://pythoninsider.blogspot.com/2025/07/python-3140-beta-4-is-here.html\)](https://pythoninsider.blogspot.com/2025/07/python-3140-beta-4-is-here.html).
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- 2025-07-02 [Thinking about running for the PSF Board? Let's talk! \(https://pyfound.blogspot.com/2025/07/thinking-about-running-for-psf-board.html\)](https://pyfound.blogspot.com/2025/07/thinking-about-running-for-psf-board.html).
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- 2025-06-17 [Python 3.14.0 beta 3 is here! \(https://pythoninsider.blogspot.com/2025/06/python-3140-beta-3-is-here.html\)](https://pythoninsider.blogspot.com/2025/06/python-3140-beta-3-is-here.html).
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Upcoming Events

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- 2025-07-14 [PyHEP.dev 2025 \(/events/python-events/2017/\)](/events/python-events/2017/)
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- 2025-07-14 [EuroPython 2025 \(/events/python-events/1881/\)](/events/python-events/1881/)
-
- 2025-07-15 [PyLadies Amsterdam: AI in action: From ML models to games \(/events/python-user-group/2082/\)](/events/python-user-group/2082/).
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- 2025-07-22 [IndyPy x IndyAWS: Python-Powered Cloud \(/events/python-user-group/2075/\)](/events/python-user-group/2075/).
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- 2025-07-25 [PyCon Russia 2025 \(/events/python-events/2018/\)](/events/python-events/2018/).
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Success Stories

Since its founding in 2007, Lincoln Loop has been building sites for their clients with Python and Django. They credit Python's philosophy of practicality and explicitness, along with the rich ecosystem of open-source libraries available on PyPI, as keys to their success. Additionally, the inclusivity, openness, and strong culture of collaboration in the Python community have enabled the agency to find and hire great people who are lifelong learners. (</success-stories/lincoln-loop-building-a-sustainable-business-inspired-by-pythons-ethos/>)

[Lincoln Loop: Building a sustainable business inspired by Python's ethos \(/success-stories/lincoln-loop-building-a-sustainable-business-inspired-by-pythons-ethos/\)](/success-stories/lincoln-loop-building-a-sustainable-business-inspired-by-pythons-ethos/) by Peter Baumgartner

Use Python for...

Web Development:

[Django \(http://www.djangoproject.com/\)](http://www.djangoproject.com/) , [Pyramid \(http://www.pythonsponsors.com/\)](http://www.pythonsponsors.com/) , [Bottle \(http://bottlepy.org/\)](http://bottlepy.org/) , [Tornado \(http://tornadoweb.org/\)](http://tornadoweb.org/) , [Flask \(http://flask.pocoo.org/\)](http://flask.pocoo.org/) , [web2py \(http://www.web2py.com/\)](http://www.web2py.com/).

GUI Development:

[tkInter \(http://wiki.python.org/moin/TkInter\)](http://wiki.python.org/moin/TkInter) , [PyGObject \(https://wiki.gnome.org/Projects/PyGObject\)](https://wiki.gnome.org/Projects/PyGObject) , [PyQt \(http://www.riverbankcomputing.co.uk/software/pyqt/intro\)](http://www.riverbankcomputing.co.uk/software/pyqt/intro) , [PySide \(https://wiki.qt.io/PySide\)](https://wiki.qt.io/PySide) , [Kivy \(https://kivy.org/\)](https://kivy.org/) , [wxPython \(http://www.wxpython.org/\)](http://www.wxpython.org/) , [DearPyGui \(https://dearpygui.readthedocs.io/en/latest/\)](https://dearpygui.readthedocs.io/en/latest/).

Scientific and Numeric:

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

Software Development:

[Buildbot](http://buildbot.net/) (<http://buildbot.net/>) , [Trac](http://trac.edgewall.org/) (<http://trac.edgewall.org/>) , [Roundup](http://roundup.sourceforge.net/) (<http://roundup.sourceforge.net/>)

System Administration:

[Ansible](http://www.ansible.com) (<http://www.ansible.com>) , [Salt](https://saltproject.io) (<https://saltproject.io>) , [OpenStack](https://www.openstack.org) (<https://www.openstack.org>) , [xonsh](https://xon.sh) (<https://xon.sh>)

Python Software Foundation ([/psf/](https://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](https://psf/) ([/psf/](https://psf/))

[Become a Member](https://psf/membership/) ([/psf/membership/](https://psf/membership/)).

[Donate to the PSF](https://psf/donations/) ([/psf/donations/](https://psf/donations/)).

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