Python 3.7.4

**Release Date:** July 8, 2019

Note

There are now newer maintenance releases of Python 3.7 that supersede 3.7.4 and Python 3.8 is now the latest feature release of Python 3.. [Get the latest releases of 3.7.x and 3.8.x here](https://www.python.org/downloads/).

Python 3.7.4 is the fourth maintenance release of Python 3.7. The Python 3.7 series contains many new features and optimizations.

Among the major new features in Python 3.7 are:

* [PEP 539](http://www.python.org/dev/peps/pep-0539), new C API for thread-local storage
* [PEP 545](http://www.python.org/dev/peps/pep-0545), Python documentation translations
* New documentation translations: [Japanese](https://docs.python.org/ja/), [French](https://docs.python.org/fr/), and [Korean](https://docs.python.org/ko/).
* [PEP 552](http://www.python.org/dev/peps/pep-0552), Deterministic pyc files
* [PEP 553](http://www.python.org/dev/peps/pep-0553), Built-in breakpoint()
* [PEP 557](http://www.python.org/dev/peps/pep-0557), Data Classes
* [PEP 560](http://www.python.org/dev/peps/pep-0560), Core support for typing module and generic types
* [PEP 562](http://www.python.org/dev/peps/pep-0562), Customization of access to module attributes
* [PEP 563](http://www.python.org/dev/peps/pep-0563), Postponed evaluation of annotations
* [PEP 564](http://www.python.org/dev/peps/pep-0564), Time functions with nanosecond resolution
* [PEP 565](http://www.python.org/dev/peps/pep-0565), Improved DeprecationWarning handling
* [PEP 567](http://www.python.org/dev/peps/pep-0567), Context Variables
* Avoiding the use of ASCII as a default text encoding ([PEP 538](http://www.python.org/dev/peps/pep-0538), legacy C locale coercion and [PEP 540](http://www.python.org/dev/peps/pep-0540), forced UTF-8 runtime mode)
* The insertion-order preservation nature of dict objects is now an official part of the Python language spec.
* Notable performance improvements in many areas.

Please see [What’s New In Python 3.7](https://docs.python.org/3.7/whatsnew/3.7.html) for more information.

More resources

* [Online Documentation](https://docs.python.org/3.7/)
* [PEP 537](http://www.python.org/dev/peps/pep-0537), 3.7 Release Schedule
* Report bugs at [https://bugs.python.org](https://bugs.python.org/).
* [Help fund Python and its community](https://www.python.org/psf/donations/).

Windows users

* **Changed in 3.7.4** OpenSSL has been updated from 1.1.0 to 1.1.1 and SQLite updated to 3.28.0.
* The binaries for AMD64 will also work on processors that implement the Intel 64 architecture. (Also known as the "x64" architecture, and formerly known as both "EM64T" and "x86-64".)
* There are now "web-based" installers for Windows platforms; the installer will download the needed software components at installation time.
* There are redistributable zip files containing the Windows builds, making it easy to redistribute Python as part of another software package. Please see the documentation regarding [Embedded Distribution](https://docs.python.org/3.7/using/windows.html#embedded-distribution) for more information.

macOS users

* **Changed in 3.7.4** OpenSSL has been updated from 1.1.0 to 1.1.1 and SQLite updated to 3.28.0.
* For Python 3.7.4, we provide two binary installer options for download. The default variant is 64-bit-only and works on macOS 10.9 (Mavericks) and later systems. **Changed in 3.7.4** The 64-bit/32-bit variant that also works on very old versions of macOS, from 10.6 (Snow Leopard) on, is now deprecated and will no longer be provided in future releases; see the macOS installer ReadMe file for more info. Both variants come with batteries-included versions of Tcl/Tk 8.6 for users of IDLE and other tkinter-based GUI applications; third-party and system versions of Tcl/Tk are no longer used.
* Both python.org installer variants include private copies of OpenSSL. Please carefully read the Important Information displayed during installation for information about SSL/TLS certificate validation and the Install Certificates.command.

[Full Changelog](https://docs.python.org/3.7/whatsnew/changelog.html#python-3-7-4-final)