

Summary – Release highlights

- Python 3.11 is between 10-60% faster than Python 3.10. On average, we measured a 1.25x speedup on the standard benchmark suite. See [Faster CPython](#) for details.

New syntax features:

- [PEP 654: Exception Groups and except*](#)

New built-in features:

- [PEP 678: Exceptions can be enriched with notes](#)

New standard library modules:

- [PEP 680: tomllib](#) — Support for parsing [TOML](#) in the Standard Library

Interpreter improvements:

- [PEP 657: Fine-grained error locations in tracebacks](#)
- New `-P` command line option and `PYTHONSAFEPATH` environment variable to [disable automatically prepending potentially unsafe paths to `sys.path`](#)

New typing features:

- [PEP 646: Variadic generics](#)
- [PEP 655: Marking individual TypedDict items as required or not-required](#)
- [PEP 673: Self type](#)
- [PEP 675: Arbitrary literal string type](#)
- [PEP 681: Data class transforms](#)

Important deprecations, removals and restrictions:

- [PEP 594](#): Many legacy standard library modules have been deprecated and will be removed in Python 3.13
- [PEP 624](#): `Py_UNICODE` encoder APIs have been removed
- [PEP 670](#): Macros converted to static inline functions

