What's new in Python



Veit Schiele Cusy GmbH, Berlin Python Users Berlin, 14 April 2022

github.com/cusyio/jupyter-reveal/pub/pub_2022-04.pdf

Python 3.10.4 and 3.9.12 are available out of schedule

Shortly after the release of 3.10.3 and 3.9.11, a regression was found which meant that Python could no longer be built on Red Hat Enterprise Linux 6. Our new versions fix this problem.

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See also:

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See also:

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- Commodore and SUN file formats
 - The chunk module provides support for reading and writing Electronic Arts'
 Interchange File Format an old audio file format originally introduced for
 Commodore and Amiga.
 - The xdrlib module supports the Sun External Data Representation Standard
 XDR, an old binary serialisation format from 1987.

This PEP proposes a list of modules that should be removed from the standard library.

- APIs and operating systems that have long been deprecated, e.g.
 - The nis module provides support for Network Information Service/Yellow Pages, an obsolete directory service protocol that never caught on against libc's Name Service Switch, LDAP and Kerberos/GSSAPI.
 - The spwd module, which provides direct access to the Unix shadow password database using non-standard APIs.

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- Modules that have security implications and better alternatives, e.g.
 - the crypt module implements password hashing based on the crypt(3) function from libcrypt or libxcrypt on Unix-like platforms. The algorithms are mostly old, of poor quality and insecure. Alternatives are legacycrypt, bcrypt, argon2-cffi, hashlib and passlib.

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- M1 Macs via Docker
- Raspberry Pis with a 64-bit operating system
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See also:

• Pyston v2.3.3: ARM support

Sciagraph

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See also:

- Speed up production Python data-processing jobs with always-on profiling
- Docs

perflint

perflint is a linter for performance anti-patterns

airspeed velocity

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See also:

- Docs
- Example NumPy Benchmarks
- Repository

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See also:

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See also:

• Exciting news for the future of BeeWare

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- PyTorch is an ML framework that accelerates the workflow from research prototypes into production
- Cinder is a performance-optimised version of CPython 3.8
- Pyre is a A performant type-checker for Python 3

Meta strengthens investment in the Python ecosystem

Meta's funding of a second year of the Developer-in-Residence programme stabilises ongoing development. This allows Łukasz Langa to take a broader perspective with the Steering Council and the PSF.

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See also:

PSF Welcomes New Executive Director Deb Nicholson