Stay Hydrated

similarities between Python programming and swordfighting

Anne DeCusatis 5/19/2024, PyCon US Lightning Talks

About me

Python programmer, professionally since 2015

Staff Software Engineer at Flatiron Health

Rapier safety marshal
Barony of Caerthe (Denver, CO chapter
of Society for Creative Anachronism)



I'm in green (2022 photo)

It's important to stay hydrated at events

Following a reference is how you get started

FROM THE PAGE

TO THE PRACTICE

FUNDAMENTALS OF SPANISH SWORDPLAY

PUCK CURTIS AND MARY DILL CURTIS

This work also appears as part of

IN THE SERVICE OF MARS

Proceedings from the WESTERN MARTIAL ARTS WORKSHOP 1999-2009

Volume II

GREGORY D. MELE, EDITOR.



Freelance Academy Press, Inc. www.FreelanceAcademyPress.com

Python » English

√ 3.12.3

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What's New In Python 3.12

Editor: Adam Turner

This article explains the new features in Python 3.12, compared to 3.11. Python 3.12 was released on October 2, 2023. For full details, see the changelog.

See also: PEP 693 - Python 3.12 Release Schedule

Summary - Release highlights

Python 3.12 is the latest stable release of the Python programming language, with a mix of changes to the language and the standard library. The library changes focus on cleaning up deprecated APIs, usability, and correctness. Of note, the distutils package has been removed from the standard library. Filesystem support in os and pathlib has seen a number of improvements, and several modules have better performance.

The language changes focus on usability, as f-strings have had many limitations removed and 'Did you mean ...' suggestions continue to improve. The new type parameter syntax and type statement improve ergonomics for using generic types and type aliases with static type checkers.

This article doesn't attempt to provide a complete specification of all new features, but instead gives a convenient overview. For full details, you should refer to the documentation, such as the Library Reference and Language Reference. If you want to understand the complete implementation and design rationale for a change, refer to the PEP for a particular new feature; but note that PEPs usually are not kept up-to-date once a feature has been fully implemented.

New syntax features:

• PEP 695, type parameter syntax and the type statement

New grammar features:

PEP 701, f-strings in the grammar

Theme

...but it's different than doing it in real life

Both involve headspace and analytical thinking about "your opponent"*

*the computer is your opponent

As much about the people as about the activity itself