

# What's new in Python



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Python Users Berlin, 14 October 2021

[github.com/cusyio/jupyter-reveal/pub/pub\\_2021-10.pdf](https://github.com/cusyio/jupyter-reveal/pub/pub_2021-10.pdf)

# TIOBE-Index Oktober 2021

Python at the top for the first time, see [TIOBE Index for October 2021](#).

# Python 3.10 released

- Release Date: 4 Oct. 2021
- New features:
  - union types as X | Y
  - Parameter Specification Variables
  - Parenthesised context managers
  - Explicit Type Aliases
  - Structural Pattern Matching
  - optional EncodingWarning
- Deprecates:
  - distutils module
  - support for OpenSSL < 1.1.1
  - Py\_UNICODE encoder APIs

**See also:** • [Python 3.10.0](#)

# An open and free version of Germany

This can be installed with Python:

```
$ python -m pip install deutschland
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Deutschland is a python package that gives you easy access to the most valuable datasets of Germany:

- geographic data
- company data
- consumer protection data
- federal job openings
- ...

# PyData Global 2021

- 28-30 October 2021
- [PyData Global 2021](#)

# PyConDE and PyData Berlin 2022

- 11-13 April 2022 at bcc Berlin Congress Center
- [PyConDE and PyData Berlin 2022](#)

## New in our bookshelf

- [Architekturpatterns mit Python – Test-Driven Development, Domain-Driven Design und Event-Driven Microservices praktisch umgesetzt](#) by Harry J. W. Percival and Bob Gregory
- [MLOps – Kernkonzepte im Überblick](#) by Mark Treveil, Nicolas Omont, Clément Stenac, Kenji Lefèvre and Du Phan
- [Think Python](#) by Allen B. Downey
- [Praktische Statistik für Data Scientists](#) by Peter Bruce, Andrew Bruce and Peter Gedeck
- [Machine Learning – kurz & gut](#) by Chi Nhan Nguyen and Oliver Zeigermann
- [Einfache Programmierung mit MicroPython](#) by Thomas Brühlmann
- [Raspberry Pi programmieren mit Python](#) by Michael Weigend