

PEP Talk

by Mariatta

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PEP 8: Style Guide for Python Code



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“This document gives coding conventions for the Python code comprising **the standard library in the main Python distribution.**”



PEP != Style Guide Documentation



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So ... what's a PEP?



PEP 1: PEP Purpose and Guidelines

“PEP stands for **Python Enhancement Proposal**.

A PEP is a design document providing information to the Python community, or describing a new feature or its processes or environment. The PEP should provide a concise technical specification of the feature and a rationale for the feature.”



What needs a PEP?

What doesn't need a PEP?



Making Changes to Python

Bugs, crashes, docs issues, feature requests, etc

File them on GitHub: <https://github.com/python/cpython>



Making Changes to Python

Changes to the language itself, grammar, syntax, adding a new module, new keyword, new operator: PEP required



Example PEPs

PEP 498: Literal String Interpolation (f-strings)

PEP 572: Assignment Expressions (the “walrus” operator)

PEP 654: Exception Group and excepts

PEP 492: Coroutines with async and await

Typing PEPs: PEP 482, 483, 484, 526, 561, etc

Packaging PEPs



Governance PEPs

PEP 13: Python Language Governance

PEP 609: PyPA Governance

PEP 8000: Python Language Governance Proposal

Overview

PEP 8016: The Steering Council Model

PEP 810x: Steering Council elections



Core Workflow and Infrastructure PEPs

PEP 512: Migrating from hg.python.org to GitHub

PEP 581: Using GitHub Issues for Python

PEP 545: Python Documentation Translations

PEP 676: PEP Infrastructure Process



Release PEPs

PEP 719: Python 3.13 Release Schedule

PEP 693: Python 3.12 Release Schedule

PEP 664: Python 3.11 Release Schedule

...

Also at <https://devguide.python.org/versions/#versions>



PEP Lifecycle

Start with an idea for Python



PEP Lifecycle

Start with an ~~idea~~ for Python



PEP Lifecycle

problem

Start with an ~~idea~~ for Python



PEP Lifecycle

Discuss your ~~idea~~ problem with core devs and contributors

- open an issue on GitHub¹
- start a thread on Python Discourse²
- discuss at Python Language Summit at PyCon US

1: <https://github.com/python/cpython>

2: <https://discuss.python.org/c/core-dev/23>



PEP Lifecycle

If it can't be solved by third party library on PyPI,

If it requires changes to the language itself

You'll need a PEP (and a PEP sponsor)



PEP Lifecycle

Write the PEP

Champion your ~~idea~~ solution to your problem

Document discussions, questions, pushbacks, reasonings,
etc



PEP Lifecycle

Submit the PEP for Steering Council's review



PEP Lifecycle

PEP accepted? Congrats!!! 🎉

It can be included in Python



PEP Lifecycle

PEP is a proposal doc, not feature documentation

The feature should be documented at docs.python.org



PEP Lifecycle

Could take months, and in some cases: years

PEP 525 (async generator): 2 months

PEP 557 (data classes): 9 months

PEP 572 (the walrus): 18 months

PEP 517 (build system/Packaging): 2 years

Most time are spent in discussions and consensus building



Your Role

PEPs will affect how you use Python (things could break)

Python core devs have blind spots: Your input matters

Bring up your concerns during PEP discussion period



Case study:

PEP 563 (2017)

VS

PEP 649, Pydantic, FastAPI
(2021)



Case study:

PEP 563 (2017)

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PEP 649, Pydantic, FastAPI
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P.S. PEP 649 was accepted May 2023



Your Role

Keep up to date with PEPs!

New PEPs are announced on Discourse:
discuss.python.org/c/peps

Test your code against Python pre-releases: (alpha, beta, release candidate): check the Release Schedule



“The steering council shall work to: ...

Seek consensus among contributors and the core team...”,

PEP 8016



“A PEP is a design document providing information to the Python community”,

PEP 1

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Thank You

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