

## PEP 8

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### PYTHON ENCHACEMENT PROPOSAL

PEP 8 (Python Enhancement Proposal) is a document that provides guidelines on the best practices for writing Python code. It's primary focus is to help improve the readability and the consistency of code. This is to aid in the collaboration of others whom need to understand your code.

PEP 8 has guidelines for naming conventions:

- Functions should be written using lowercase words (snake-case)
- Variables should be written using lowercase words (snake-case)
- Classes should be written using capital letters for each word (camel-case)
- Methods should also follow snake-case conventions

It is also important to note the choice of words and letters while naming these things.

Next there is Code layout.

The use of whitespace (blank lines) can greatly improve the readability of Python code because code that is all bunched together is unreadable, though this is a double edged sword as including to many whitespaces can make a code look sparse.

PEP 8 has guidelines for white-spacing:

- Functions and classes should be separated by two blank lines
- Method definitions inside classes should be separated by a single blank line

Using whitespaces can greatly improve the readability of your code.

PEP 8 also has a maximum line length and suggests lines should not exceed 79 characters in length.

Block comments are used to document a small section of code and are useful when having to write several lines to perform a single action. Each comment line should start with a # hashtag.

Inline comments however should be used sparingly, on the same line as the statement they refer to and should be two horizontal spaces from the code. It's also important to not use them to explain code that is self-explanatory.

Documentation strings also known as a doc string are enclosed in `""" """` triple quotation marks, these should be included in all modules, functions, classes and methods and are used to explain and document these blocks of code. To view the contents of a doc string, you can use the `help()` function with the name of the method, class or function in the parenthesis.