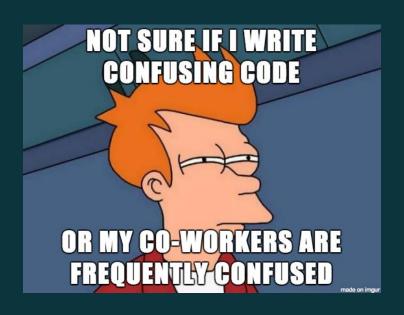
Anna Roszman Junior Backend Developer @ Wirtualna Polska (WP Pilot, WP Program TV, Open FM) PyLight #10 29.11.2018

Dobre nawyki, czyli jak nie utrudniać sobie życia *Good practices, or how to make life easier* 



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# "Code is more often read than written." *Guido Van Rossum*



**PEP** 

Python Enhancement Proposals

github.com/python/peps

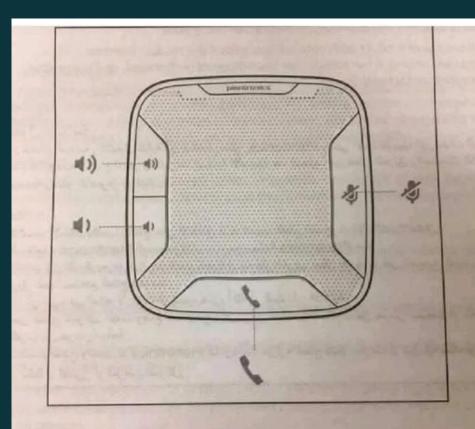
Style Guide for Python Code

PEP 8

#### PEP8:

- >code layout (indentations, line breaking, blank lines, white spaces)
- >imports (standard library, related third party imports, local imports)
- >naming conventions (variable\_names, function\_names, ClassNames,
- CONSTANTS...; names to avoid)
- >comments
- >inheritance design
- ...and so on...

>project-specific guides take precedence for that project



How I comment my code.

## comments vs docstrings

#### Comments:

- >"how?" (not "what?")
- >for programmers who develop the code
- >purposes: planning, tagging, review; explanation of more complicated structures
- >comments that contradict the code are worse than no comments (must be up-to-date)

#### Docstrings:

- >"what?" (not "how?")
- >summary
- >for developers who use the code

```
class JSONDecodeError(ValueError):
    ""Subclass of ValueError with the following additional properties:
   msg: The unformatted error message
   doc: The JSON document being parsed
   pos: The start index of doc where parsing failed
   lineno: The line corresponding to pos
   colno: The column corresponding to pos
   11 11 11
   # Note that this exception is used from _json
   def __init__(self, msg, doc, pos):
       lineno = doc.count('\n', 0, pos) + 1
       colno = pos - doc.rfind('\n', 0, pos)
       errmsg = '%s: line %d column %d (char %d)' % (msg, lineno, colno, pos)
       ValueError.__init__(self, errmsg)
       self.msq = msq
       self.doc = doc
       self.pos = pos
       self.lineno = lineno
       self.colno = colno
   def __reduce__(self):
       return self.__class__, (self.msg, self.doc, self.pos)
```

```
In [1]: def do_nothing():
            """Do nothing.
            Document it.
   . . . :
            pass
In [2]: print(do_nothing.__doc__)
Do nothing.
    Document it.
In [3]: help(do_nothing)
Help on function do_nothing in module __main__:
do_nothing()
    Do nothing.
    Document it.
```

# vs. self-documenting code

comments

### linter (lint)

- >general name for tools that analyze source code
- >flags errors, problematic constructs, etc.
- >may be integrated with IDE, version control system (git) or development systems
- >exceptions may (and should) be applied
- >i.e. PyLint, Black, Flake8, mypy

#### Моге...



Agata Tyśnicka, PyLight #5
Czym jest refactoring i dlaczego jest ważny?



Ignacy Sokołowski, PyWaw #35 *Readability counts* 



Wojtek Ebertowski, PyWaw #74

Dokumentacja w samodokumentującym się świecie



Raymond Hettinger, PyCon 2015

Beyond PEP 8 - best practices for beautiful intelligible code