





Ali Farnudi, Nov 2022

Clean code

Code is read much often than it is written

Code writing starts fast... then it gets slow

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In the beginning:

A: Hey, how long does it take to add a new feature?

Programmer: Maybe a couple of days



After a year:

A: Hey, how long does it take to add a new feature?

Programmer: Maybe 6 months..

A: It used to be quicker.

Programmer: Yes, but you don't know how messy it has become! If I touch even one line, all hell could breaks loose.





What is a clean code?

Clean code always looks like it was written by someone who cares.



Michael C. Feathers (Expert at revitalising legacy code)



You know you are working on clean code when each routine you read turns out to be pretty much what you expect...



Ward Cunningham (Inventor of the wiki)



Basics of code writing

- Use self-explanatory variable, function, and class names
- use consistent capitalisation
- Use a consistent coding style (PEP8)
- Keep functions short
- Comment if you chose to write a complicated algorithm
- Comments are dead

a = "membraneTest.txt" def func1(): pass

config_file_name = "membraneTest.txt" def get_colour_index(): pass





PEP8 **Python Enhancement Proposal**

- Modules, function, and instance variable names: all_lower_case_separated_by_underscore
- Constants: ALL_CAPITAL
- Class names: CapWords
- Global Variable: Only used within one module

Pip3 install pycodestyle

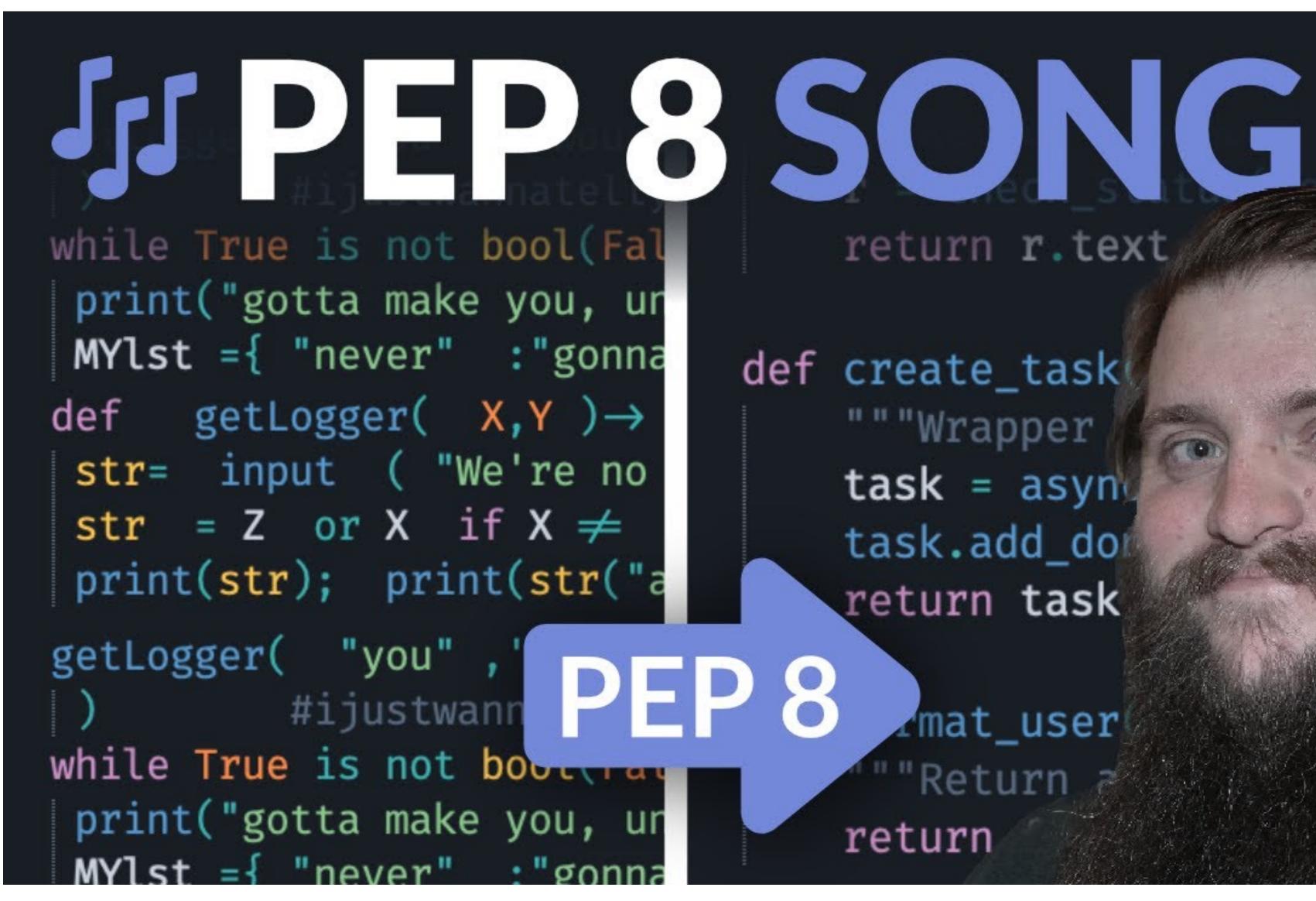
Go to pep8.org

Use 'black' https://pypi.org/project/black

Pip3 install black

Python code formatter





PEP 8 Song

return r.text

def create_task """Wrapper task = asyn task.add_do return task

> ""Return a return

When should I clean my code?

You clean code as soon as it works!

How long will it take? Almost the same time as you wrote it!

This is the big problem

The second se







You get fast by doing well

You are writing code that other people need to maintain and use

'Clean code' by Robert C. Martin

Link to summary



"Always code as if the guy who ends up maintaining your code will be a **violent psychopath** who knows where you live"

Martin Golding