

Clean code

Ali Farnudi, Nov 2023

**Code is read
much more often than it is written**

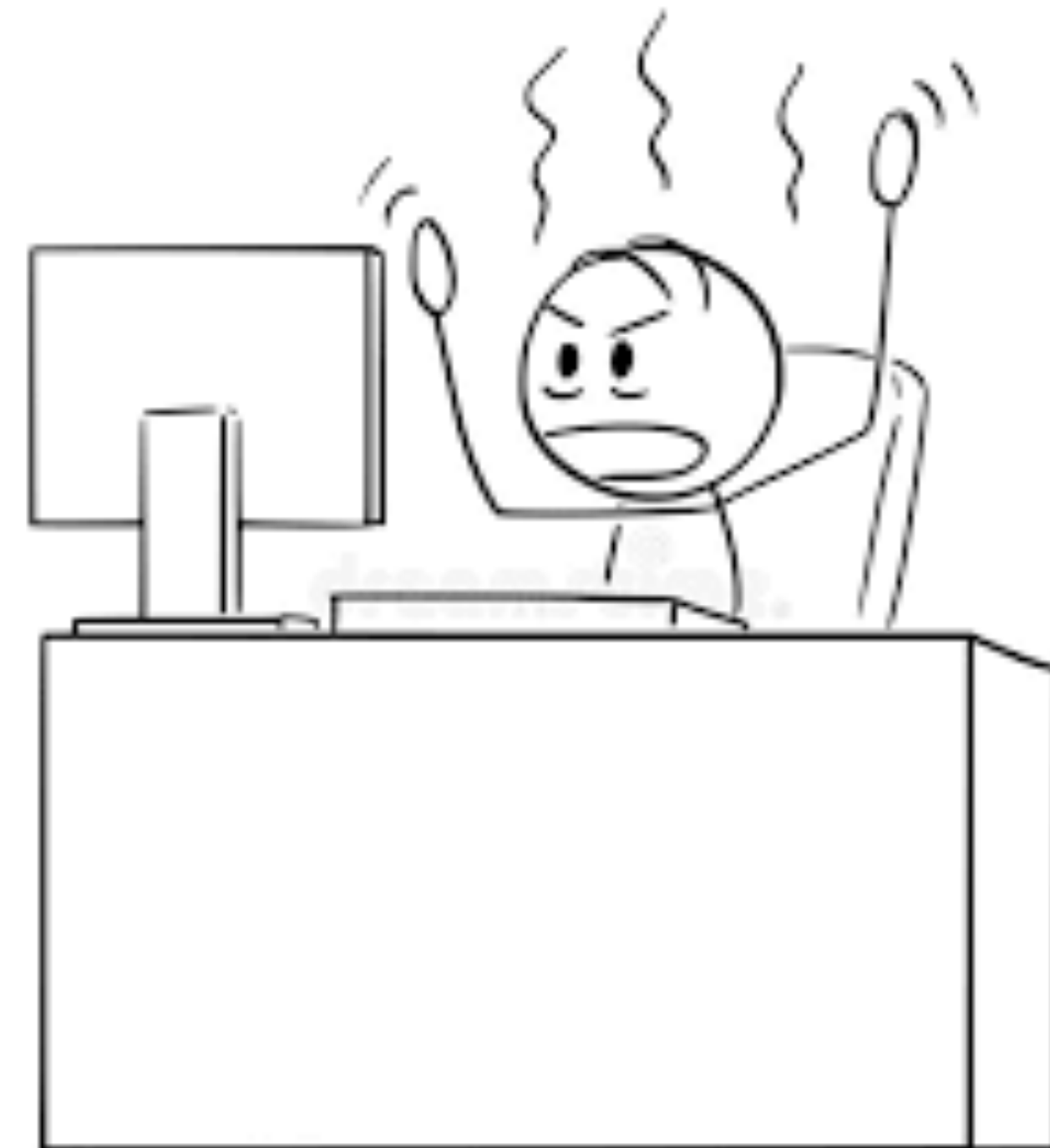
**Code writing starts fast...
then it gets slow**

Code writing starts fast... then it gets slow

In the beginning:



After a year:



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

Go to pep8.org

Pip3 install pycodestyle

Use 'black'

<https://pypi.org/project/black>

Pip3 install black

Python code formatter

PEP 8 Song

🎵 PEP 8 SONG

```
while True is not bool(False):  
    print("gotta make you, un  
    MYlst = { "never" : "gonna  
def getLogger( X,Y )→  
    str= input ( "We're no  
    str = Z or X if X ≠  
    print(str); print(str("a  
getLogger( "you" ,'  
    ) #ijustwann  
while True is not bool(True):  
    print("gotta make you, un  
    MYlst = { "never" : "gonna
```

```
return r.text
```

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

PEP 8

```
"""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



**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