Programming

Lesson 23 – Code convention
الدرس 23 – كتابة الكود المتّفق عليها

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Case styles

Where:

- Variables
- Functions
- Classes
  - Class name
  - Members
  - Methods
- Files
- Directories
- …

Styles:

- camelCase
- PascalCase
- snake_case
- kebab-case

Camel Case & Snake case

Word: this is my line

Camel case

- thisIsMyLine

Rules:

- Capitalizing all words following the first word

Snake case:

- this_is_my_line

Rules:

- _ between words
- All small letters or All Capital letters
- THIS_IS_MY_LINE

Pascal case & Kebab case

Word: this is my line

Pascal case

- ThisIsMyLine

Rules:

- Capitalizing all words (Including the first word)

Kebab case:

- this-is-my-line

Rules:

- - between words
- All small letters or All Capital letters

Snake case

Small letters

- Variables:
  - this_is_variable
- Functions:
  - my_new_function()
- Files:
  - new_file.py
- Directory
  - functions/
- Class member and methods
  - self.name

Capital letters

- Constants
  - THIS_IS_CONSTANT

Pascal Case

- Class Name
  - class Person:

    …
  - class NewClass:

    …

Style

- Use snake and Pascal case
- Short lines: ~80 character
  - Break line if needed
- Short functions
- Comments
  - Functions comments
  - Inline comments
- Readable and understandable naming

Style correct vs wrong

	Correct	Wrong
Import different libraries	import pandas import numpy	import pandas, numpy
Import per library	from pandas import DataFrame, DataSeries	from pandas import DataFrame from pandas import DataSeries
Spaces	x = x + 1 i += 1 x = x*2 + 1	x=x+1 i+=1 / i +=1 x = x * 2 + 1
Functions arguments spaces	def new_func(args1, arg2, arg3) print('one', 'two', 'three')	def new_func(args1,arg2,arg3) print('one','two','three')
Conditions spaces	if x == 1: while x > 1:	if x==1: while x>1:
Brackets when needed	if (x > 1 and y > 3) or (x < 3 and y > 6)	if x > 1 and y > 3 or x < 3 and y > 6:
Comments	# Checking if num is even if (x % 2) == 0:	if x % 2 == 0:
Relevant names	def calculate_avg(lst):	def foo():

Thank you ☺!

Stay tuned for more!