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- "Code is more often read than written."
- Guido van Rossum
- "It doesn't matter how good your software is, because if the documentation is not good enough, people will not use it."
- Daniele Procida
- "Code tells you how; Comments tell you why."
- Jeff Atwood (aka Coding Horror)

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Part I Python Learning Notes

Chapter 1

Control Structures

1.1 Python's Switch/Case

There's no switch/case control structures in Python so to speak. But dictionaries can be used to fulfill that job as in the example below:

```
def hangman_states(case):
    switcher = {
        1: hangman_state1,
        2: hangman_state2,
        3: hangman_state3,
        4: hangman_state4,
        5: hangman_state5,
        6: hangman_state6,
        7: hangman_state7,
        8: hangman_state8
    }
    return switcher.get(case, "State doesn't exist")()
```

Chapter 2

Data Types and Structures

2.1 Mutable/Not Mutable Data Types

```
1. list = mutable
```

- 2. tuple = not mutable
- 3. string = not mutable

2.2 Lists slices

This verbatim below comes from the moving to python wikipage [4]:

Python indexes and slices for a six-element list.

Indexes enumerate the elements, slices enumerate the spaces between the elements.

```
 a = [0,1,2,3,4,5] \\ len(a) == 6 \\ a[:5] == [0,1,2,3,4] \\ a[0] == 0 \\ a[:-2] == [0,1,2,3] \\ a[5] == 5 \\ a[-1] == 5 \\ a[-1] == 5 \\ a[-2] == 4   a[1:] == [1,2,3,4] \\ a[1:-1] == [1,2,3,4] \\ a[-2] == 4   b = a[:]
```

```
b==[0,1,2,3,4,5] (shallow copy of a)
```

2.3 Global Variables

In order to use global variables do as indicated here:

- 1. Declare variable
- 2. In local scope, statement global <var>
- 3. Use variable...

Chapter 3

Conventions

3.1 Indentation

Indentation = holywar between tabs, four-spaces and weirdos. Not sure what I should use.

Bibliography

- [1] Python Software Foundation. Pep 8 Style Guide for Python Code. Accessed: 2020-04-23. 2020. URL: https://www.python.org/dev/peps/pep-0008/.
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- [3] Python Software Foundation. *The Python Standard Library*. Accessed: 2020-04-23. 2020. URL: https://docs.python.org/3/library/index.html.
- [4] Python Wiki. Moving to Python From Other Languages. Accessed: 2020-04-23. 2020. URL: https://wiki.python.org/moin/MovingToPythonFromOtherLanguages.