

TO GET THE BASIC IDEA, JUST GO TO THE LAST PAGE

Indentation

for functions:

```
_foo = longFunctionName(varOne, varTwo,  
                        varThree, varFour)
```

for multi-lines variables:

```
myList = [  
    1, 2, 3,  
    4, 5, 6,  
    ]
```

White spaces

Yes:

```
spam(ham[1], {eggs: 2})  
x = 1  
i = i + 1  
  
spam(1)  
  
def complex(real, imag=0.0):  
    return magic(r=real, i=imag)
```

No:

```
spam( ham[ 1 ], { eggs: 2 } )  
x      = 1  
i=i+1  
  
spam (1)  
  
def complex(real, imag = 0.0):  
    return magic(r = real, i = imag)
```

Variable names

- lowercase with underscore between words
- descriptive with nouns, example:

```
yes:  
amountOfNumbers = 1  <- first letter small, then every word  
                        starts on caps
```

no:

```
amount = 1           amount of what?
```

Function names

- lowercase with underscore between words
- descriptive with verbs, example:

```
yes:  
  
def copyNumbers():  <- first letter small, then every word starts  
                    on caps
```

no:

```
def numbers():      numbers? numbers what? eat numbers? copy them?
```

Blank lines

Inside a method / function: one line max
Outside a method / function: two lines max

Notes:

- Maximum line length: 80 characters
- Strings go with double quote marks

Comments

yes:

... previous code ...

Comment line number one

... code the comment refers to ...

no:

... code the comment refers to ...

Comment line number one

no:

#comment with no caps at the beginning and no white space

#between the backslash and the text

Documentation strings

For describing what the whole program / section does, not for inline comments (i.e. not for explaining what a line of code does).

Complete example

```
import numpy

                (two blank lines after the imports)

# Constants
CONSTANT_VALUE = 3.14159

# Global variables, unique, used by all program
GlobalVariable = 15

                (two blank lines before the function)

def addTwoNumbers(paramOne, paramTwo)
    """
    Computes the sum of two numbers and returns the result.

    """

    # Internal variable starts with underscore
    _result = paramOne + paramTwo

    # Only one space between different parts of a function
    return _result

                (two blank lines after the function)

# Inline explanation of the code
_localVariable = 0
_localVariable = addTwoNumbers(GlobalVariable, CONSTANT_VALUE)

print "Strings go with double quote marks", _localVariable

                (one blank line at the end of the file)
```