



????? http://wiki.jiayun.org/PEP_8 -- Style#References????? Guido van Rossum?Barry Warsaw?????JiaYun

??

????? Python ?????????????? Python ?????????????? Python ? C ?????? C ?????????????? PEP[1]?

????? Guido ??? Python ?????[2]????? Barry ?????[5]????????????? PEP ? Guido ????? PEP ??????????????

????? <??>??

?????????????

Guido ?? Python ?????????????? [PEP 20](#) [6] ??????????

????????????????????????????????????? module ? function ????????????

????????????????? ?? ??

?????????????

1. ??

2. ?????????????????????????????????????? ?? ?????????????????????? Extreme Programming ?????

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????????? 4 ????

????????????????????? tab?

tab ???

?????? tab ????

? Python ?????????????????? tab?? tab ?????????????????? Python ?????? -t ?????? tab ??????
?????? -tt ??????????????????????????

????????????? tab ??????????????????????????????

??????

????????? 79 ??????

????????? 80 ?????????????? 80 ?? 79 ????
?????????docstring ?????????????? 72 ????

????????????????????? Python ?????????????????? expression ??????????????????????????????????????

class Rectangle(Blob):

```
def __init__(self, width, height,
             color='black', emphasis=None, highlight=0):
    if width == 0 and height == 0 and \
        color == 'red' and emphasis == 'strong' or \
        highlight > 100:
```

```

    raise ValueError("sorry, you lose")
if width == 0 and height == 0 and (color == 'red' or
        emphasis is None):
    raise ValueError("I don't think so")
Blob.__init__(self, width, height,
              color, emphasis, highlight)

```

???

?????? function ? class ????????????

class ?? method ??????????????

????????????????????????? function?????????????????????????????????????

? function ??????????????????????

Python ? control-L???? ^L???

???[PEP 263](#)?

Python ?????????????????? ASCII ? Latin-1?? ISO-8859-1????? Python 3.0 ??????UTF-8 ? Latin-1 ??????? [PEP 3120](#)?

?? ASCII?? UTF-8?? Python 3.0 ?????????????????? "coding: utf-8"??Latin-1?? UTF-8????????? docstring ???
????????????????????????? \x?\u ? \U ?????????? ASCII ???

?? Python 3.0 ?????????????????????? [PEP 3131](#)??? Python ?????????????????? ASCII ??????????????????????
??? ASCII ?????????? (a) ??? ASCII ?????????? (b) ??????????????????????
?????????????????

?????????????????????????????????

import

import ??????????????

????

import os
import sys

????

import sys, os

???????????

from subprocess import Popen, PIPE

import ?????????????? module ??? docstring ???? module ????????????

```
import ??????????
```

1. ?????? import
2. ?????????? import
3. ?????/????? import

```
?? import ?????????????? ???? __all__ ??? import ???
```

```
????? package ?????? import?
```

```
?? import ???? package ?????????? PEP 328 [7] ??? Python 2.5 ?????????????? import ???????????  
import ??????????????????
```

```
??? class ??? module ? import class ????????????
```

```
from myclass import MyClass  
from foo.bar.yourclass import YourClass
```

```
?????????????????
```

```
import myclass  
import foo.bar.yourclass
```

```
???? "myclass.MyClass" ? "foo.bar.yourclass.YourClass"
```

expression ? statement ???

```
???
```

```
?????????????????
```

```
?????????????????????
```

```
????
```

```
spam(ham[1], {eggs: 2})
```

```
????
```

```
spam( ham[ 1 ], { eggs: 2 } )
```

```
???????????
```

```
????
```

```
if x == 4: print x, y; x, y = y, x
```

```
????
```

```
if x == 4 : print x , y ; x , y = y , x
```

?????????????????

????

spam(1)

????

spam (1)

??? slice ??????

????

dict['key'] = list[index]

????

dict ['key'] = list [index]

???

????

x = 1

y = 2

long_variable = 3

????

x = 1

y = 2

long_variable = 3

????

?????????????????????=????????+=, -= ????=?==, <, >, !=, <>, <=, >=, in, not in, is, is not?????and, or, not??

???????????????

????

i = i + 1

submitted += 1

x = x * 2 - 1

hypot2 = x * x + y * y

c = (a + b) * (a - b)

????

```
i=i+1  
submitted +=1  
x = x*x - 1  
hypot2 = x*x + y*y  
c = (a+b) * (a-b)
```

? != ??????????????????????????
????

```
def complex(real, imag=0.0):  
    return magic(r=real, i=imag)
```

????

```
def complex(real, imag = 0.0):  
    return magic(r = real, i = imag)
```

?? statement ?????? statement?????????
????

```
if foo == 'blah':  
    do_blaah_thing()  
do_one()  
do_two()  
do_three()
```

???????

```
if foo == 'blah': do_blaah_thing()  
do_one(); do_two(); do_three()
```

???? if/for/while ??
???????

```
if foo == 'blah': do_blaah_thing()  
for x in lst: total += x  
while t < 10: t = delay()
```

?????

```
if foo == 'blah': do_blaah_thing()  
else: do_non_blaah_thing()
```

```

try: something()
finally: cleanup()

do_one(); do_two(); do_three(long, argument,
    list, like, this)

if foo == 'blah': one(); two(); three()

??
?????????????????????????????????????????

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????Strunk ? White ? "The Elements of Style" ??

???? Python ?????????????? 120% ??????????????

???
????????????????????????????????????????????? # ??????????????????????

????????????????? # ??

???
?????????

????? statement ?????????? statement ?????????????? # ??

?????????????????????????????????????

x = x + 1      # Increment x

?????????

x = x + 1      # Compensate for border

???
????? docstring????? PEP 257 [3]?

?? public ? module?function?class?method ?????????? public ? method ?????????????????? method ??????????
?? "def" ??

PEP 257 ?????????????????????????????? """ ??????????????????????????

"""Return a foobang
Optional plotz says to frobnicate the bizbaz first.
"""

```

?????? docstring???? """ ????????

????

?????????? Subversion?CVS ? RCS ???????????

`__version__ = "$Revision: 60919 $"
$Source$`

?????? module ? docstring ?????????????????????????????Subversion ????????????? "# \$Id\$"?

????

Python ??????????????????????????????? ?????????????????????? module ? package?????? framework?????????????
???????????????????????????????????????

??????

???

???????????????????

- b ????????
- B ????????
- lowercase ????
- lower_case_with_underscores ????????
- UPPERCASE ????
- UPPER_CASE_WITH_UNDERSCORES ????????
- CapitalizedWords ???????? CapWords ? CamelCase ?? ?????????????????[4])?????? StudlyCaps?
????????????????????????? HTTPServerError ? HttpServerError ??
- mixedCase ????????????????????????????
- Capitalized_Words_With_Underscores ????????????????

???????????????????????????????? Python ????????????????????? os.stat() function ??? tuple?????????????????
st_mode?st_size?st_mtime ?????????????????? POSIX system call struct ????????????????????

X11 ?????? public function ?? X ??? Python ?????????????????? attribute ? method ?????????????? function ??
????? module ???

???

- _single_leading_underscore ?????????????????????? "from M import *" ??? import ????????????????
- single_trailing_underscore_ ?????????????? Python ???????

Tkinter.Toplevel(master, class_='ClassName')

- __double_leading_underscore ?????????? class ? attribute ????? name mangling?class FooBar ??
__boo ??? _FooBar__boo???????????
- __double_leading_and_trailing_underscore_ ?????????????????????????????????? __init__?
__import__? __file__???????????????????????????????

??????
 ??????
 ????? `l'??? L??`O'??? o??`I'??? i???????

???????????????????????????????? `l' ??? `L'?

package ? module ??
module ??????????????????????????????Python ? package ??????????????????????

?? module ?????????????????????????????????????? module ????? ?? ??? Unix ????????????????? Mac
 ? Windows ??? DOS ?????
 ? C ? C++ ??? module ??? Python module ??????????????C/C++ ? module ?????????? _socket??

class ??
 ??????class ????????????????? class???????????

exception ??
 ?? exception ??? class?class ????????????? exception ?????????????? "Error" ????

?????
 ?????????????? module ?????????????????? function ???
 ??? "from M import *" ??? module ??? __all__ ??
 ?module ??????

function ??
 function ????????????????????????????

mixedCase ?????????????????????? threading.py???????????????

function ? method ??
 instance method ?????????? 'self'?
 class method ?????????? 'cls'?

? function ?????????????????????????????????? "print_" ? "prnt" ????????????????????????

method ??? instance ??
 ?? function ????????????????????????????????

??? public ? method ? instance ????????????

????? subclass ?????????????? Python ? name mangling ???

Python ?? class ?? mangle ?????????????? class Foo ??? __a ? attribute????? Foo.__a ??????????????????
 Foo._Foo__a ?????????????????????????????? class ? attribute ????

???????????????????????????

?????
 ????? class ? method ? instance ?????????attribute??? public ?? public????????? public????????? public ??
 public attribute ??? public ???

public attribute ?????????????????? class ?????????? public attribute ?????????????????? public ? attribute ?

???????????

???? "private" ?????? Python ????? attribute ????? private????????????????

??? attribute ????? "subclass API" ?????????????????? "protected"???? class ?????????????????? class ?????????
class ?????????????? attribute ? public???? subclass API ?????????????? class ??????

???? Pythonic ?????

- public ? attribute ??????????
 - ?? public ? attribute ???'cls' ?????????????? class ????
 - ??? class method ????????
 - ????????? class method ????????
 - ?????????? public attribute?????? attribute ?????????? accessor/mutator method??? Python ??????????
 - ?????????????????? attribute ?????????????????????? property ?????????????????? attribute ??????????
 - ? ???property ?? new-style class ??????????new-style class ?????????? class?classic class ??????
 - ?? class?
 - ? ??
 - ? ????????? property ??????????????attribute ??????????????????????????????
 - ?? class ?????????? attribute ??? subclass ?????????????????????????????? Python ? name mangling ?
 - ?? class ??? mangle ? attribute ??????????? subclass ? attribute ??????????????????
 - ? ?????????? class ???? module ? package??? mangle ?????????? subclass ?????? class ???
 - attribute ??????????????
 - ? ?????name mangling ?????????????????? debug ? __getattr__(?)?? name mangling ??????????
 - ?????????????
 - ? ?????????????? name mangling???

???????

????????? Python ???PyPy, Jython, IronPython, Pyrex, Psyco ????????????

?????????? CPython ?? a+=b ? a=a+b ????? statement ?????????????? statement ? Jython ??????????????
?????????? ".join() ??????????????????????????????

None singleton 'is' ? 'is not'

?????? "if x" ?????? "if x is not None" ??? ?? ???????? None ?????????????????????????????? false ??
?????????

?? class ? exception

??? exception ?????????????????? Python 2.6 ??? module ? package ????????????? exception class??? class ????? Exception class ? subclass????? class ?????????

```
class MessageError(Exception):
    """Base class for errors in the email package."""
```

class ????????????? exception ???????exception class ??????? 'Error'?????? exception ??????????

?? exception ????"raise ValueError('message')" ??????"raise ValueError, 'message'"?

?????????exception ????????????????????????????????? Python 3000 ???3.0?????

? exception ????????? exception ?????? 'except:' ???

???

try:

```
    import platform_specific_module
except ImportError:
    platform_specific_module = None
```

?? 'except:' ???? SystemExit ? KeyboardInterrupt ??? exception??? Control-C ??????????????????????
???????????? exception???? 'except Exception:'?

???????????? 'except' ????????????

1. exception ??????????????????????????

2. ?????????????????? 'raise' ? exception ???'try ...finally' ??????????????

?????? try/except ??? 'try' ?????????????????????????? bug?

????

try:

```
    value = collection[key]
except KeyError:
    return key_not_found(key)
else:
    return handle_value(value)
```

????

try:

```
# Too broad! ???
return handle_value(collection[key])
except KeyError:
    # Will also catch KeyError raised by handle_value()
    # ?????? handle_value() ??? KeyError?
    return key_not_found(key)
```

???? method ??? string module ? function?

??? method ???????? unicode ?????? API????? Python 2.0 ??????????????

? ".startswith() ? ".endswith() ?????????????? slice?

startswith() ? endswith() ??????????????

????

```

if foo.startswith('bar'):

?????

if foo[:3] == 'bar':

????????????? Python 1.5.2 ??????????
????????????? isinstance() ??????????

?????

if isinstance(obj, int):

?????

if type(obj) is type(1):

????????????????????? unicode ???Python 2.3 ??str ? unicode ??? base class ?? basestring?????????

if isinstance(obj, basestring):

Python 2.2 ??types module ???????? StringTypeS ???

from types import StringTypeS
if isinstance(obj, StringTypeS):

Python 2.0 ? 2.1 ????????

from types import StringType, UnicodeType
if isinstance(obj, StringType) or \
   isinstance(obj, UnicodeType) :

?????string, list, tuple????????? false ???

?????

if not seq:
if seq:

?????

if len(seq)
if not len(seq)

```

?? reindent.py?????????

?????? == ?? True ? False ??

????

if greeting:

????

if greeting == True:

????

if greeting is True:

References

1. PEP 7, Style Guide for C Code, van Rossum
2. <http://www.python.org/doc/essays/styleguide.html>
3. PEP 257, Docstring Conventions, Goodger, van Rossum
4. <http://www.wikipedia.com/wiki/CamelCase>
5. Barry's GNU Mailman style guide <http://barry.warsaw.us/software/STYLEGUIDE.txt>
6. PEP 20, The Zen of Python
7. PEP 328, Imports: Multi-Line and Absolute/Relative