VIM 学习笔记

阿左 ¹ Nobody ²

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¹感谢读者

²感谢国家

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Abstract

part of vim tech

摘要

部分 vim 技巧

Part I 调用 python 脚本

Chapter 1

调用 python 脚本

1.1 基本介绍

先把函数定义于~/.vimrc 配置文件中。可以直接:so %来重新载入,但是前提是所有在 vimrc 中的自定义函数都要定义成function! 这种形式。

1.1.1 在状态栏显示信息

一个简单的例子:定义一个在 vim 的状态行中显示"Eat Me" 的消息的函数。然后绑定 到F7 键上。

```
" show message in the state bar

function! ShowEatMe()

python << EOF
print 'EAT ME'

EOF
endfunction

map <f7> :call ShowEatMe() <cr>
```

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1.1.2 取得打开文件的缓存

下面函数从打开文件的缓存中取得文件内容,然后统计空白行的行数。

```
" count blank lines in buffer
 2
 3 function! CountBlankLine()
4 python << EOF
5 import vim
   count = 0
   for line in vim.current.buffer :
    if len(line) == 0:
9
       count += 1
10 | print "there are " + str(count) + " blank lines in this file"
11 EOF
   endfunction
12.
13
14 map <f7> :call CountBlankLine() <cr>
```

1.1.3 调用 python 脚本

对于一个已经存在的 python 脚本:

```
1 print 'EAT ME'
```

可以通过:pyfile <文件名>来调用已经存在的 python 脚本。

同样对于 python 脚本:

```
import vim

count = 0
for line in vim.current.buffer :
  if len(line) == 0:
    count += 1
print "there are " + str(count) + " blank lines in this file"
```

也可以通过pyfile 命令调用。

1.2 vim 模块

现在有了 vim 模块提供 python 程序对 vim 的操作。

1.2.1 基本常量

基本常量

```
1
   vim.buffers
                          *python-buffers*
 2
      A sequence object providing access to the list of vim buffers.
 3
      object supports the following operations: >
 4
          :py b = vim.buffers[i] # Indexing (read-only)
          :py b in vim.buffers # Membership test
 5
 6
          :py n = len(vim.buffers) # Number of elements
 7
          :py for b in vim.buffers: # Sequential access
 8
9
   vim.windows
                          *python-windows*
      A sequence object providing access to the list of vim windows.
10
11
      object supports the following operations: >
12
          :py w = vim.windows[i] # Indexing (read-only)
13
          :py w in vim.windows # Membership test
          :py n = len(vim.windows) # Number of elements
14
          :py for w in vim.windows: # Sequential access
15
16
17
   vim.current
                          *python-current*
18
      An object providing access (via specific attributes) to various
      "current" objects available in vim:
19
20
       vim.current.line The current line (RW)
                                                  String
       vim.current.buffer The current buffer (RO)
                                                      Buffer
21
22
       vim.current.window The current window (RO)
                                                      Window
23
       vim.current.range The current line range (RO) Range
```

Python 脚本的全部sys.stdout 输出都在 vim 的消息区,正常输出像是提示信息。所以的sts.stderr 错误信息像是错误提示。

vim 调用的 python 脚本不支持输入sys.stdin(包括inout()、raw_input()),调用时很可能会发生错误。

1.2.2 错误对象

vim 模块中的错误会抛出vim.err 类型的异常:

```
try:
vim.command("put a")
except vim.error:
# nothing in register a
```

1.2.3 缓冲区对象

缓冲区对象可以通过以下途径获得:

- via vim.current.buffer (|python-current|)
- from indexing vim.buffers (|python-buffers|)
- from the "buffer" attribute of a window (|python-window|)

缓冲区对象可以作为一个序列对象。注意在索引与分片操作时结果会有不同:

b[:] 的结果为None,会清空整个缓冲区; b = None 仅仅更新了变量,不会影响缓冲区。

缓存对象的常用的操作:

- b.append(str) Append a line to the buffer b.append(str, nr) Idem, below line "nr"

Note that the option of supplying a list of strings to the append method differs from the equivalent method for Python's built-in list objects.

- b.append(list, nr) Idem, below line "nr"
- b.mark(name) Return a tuple (row,col) representing the position of the named mark (can also get the []"<> marks)
- b.range(s,e) Return a range object (see |python-range|) which represents the part of the given buffer between line numbers s and e linclusivel.

注意:用append()添加一个新行时,不可以加上换行符'\n'。行尾可以有'\n'但是会被忽略。所以以下的操作是被允许的:

```
:py b.append(f.readlines())
```

常用的例子:

```
# write the buffer file name
:py print b.name
:py b[0] = "hello!!!"
                           # replace the top line
:py b[:] = None
                           # delete the whole buffer
                           # delete the whole buffer
:py del b[:]
:py b[0:0] = [ "a line" ] # add a line at the top
:py del b[2]
                           # delete a line (the third)
                           # add a line at the bottom
:py b.append("bottom")
                           # number of lines
:py n = len(b)
:py (row,col) = b.mark('a') # named mark
                         # a sub-range of the buffer
:py r = b.range(1,5)
```

1.2.4 范围对象

范围对象代表了一部分的缓冲区, 取得方法有:

- via vim.current.range (|python-current|) - from a buffer's range() method (|python-buffer|)

常用属性有:

常用方法有:

```
for Python's built-in list objects.
r.append(list, nr) Idem, after line "nr"

例子(r是当前的范围):
```

Send all lines in a range to the default printer
vim.command("%d,%dhardcopy!" % (r.start+1,r.end+1))

1.2.5 窗口对象

窗口对象代表了一个 vim 窗口。取得窗口对象的方法有:

- via vim.current.window (|python-current|) - from indexing vim.windows (|python-windows|)

窗口对象没有方法,只能通过属性来操作。常用窗口属性:

```
buffer (read-only) The buffer displayed in this window cursor (read-write) The current cursor position in the window This is a tuple, (row,col). height (read-write) The window height, in rows width (read-write) The window width, in columns
```

只有水平屏时才能重设调试;只能垂直分屏时才能设置调试对象。