

文章标题

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Part I

语法基础

Chapter 1

基本使用

1.1 常用的格式

1.1.1 程序代码

```
1 # coding=utf-8
2 # 本程序的作用是自动执行两次并且删除临时文件xelatex
3 # 执行两遍 xelatex -halt-on-error sys.argv[1], 然后显示pdf
4 import os,sys,WConio
5
6 helpmsg="""usage: xltgo texfile [options]
7 options:
8     -showpdf:  show pdf after compiled
9     -encrypt:  encrtypt pdf
10 e.g: xltgo youfile
11     xltgo youfile.tex -showpdf -encrypt"""
12
13 def printgoodnews(message):
14     global attr
15     WConio.textcolor(WConio.GREEN)
16     total_chars=80
17     ll=len(message)
18     start=(total_chars-ll)/2
```

```
19     print "-"*start+message+"-"*(80-start-11)
20     WConio.textcolor(attr)
21
22 def printbadnews(message):
23     global attr
24     WConio.textcolor(WConio.GREEN)
25     total_chars=80
26     ll=len(message)
27     start=(total_chars-ll)/2
28     print "-"*start+message+"-"*(80-start-11)
29     WConio.textcolor(attr)
30
31 def cleartmpfiles(file):
32     dir=os.path.dirname(file)
33     filename=os.path.basename(file)
34     if (filename[-4:]).upper()=='.TEX':
35         filename=filename[:-4]
36     tmpexts=['.aux', '.log', '.nav', '.out', '.snm', '.toc', '.vrb', '.xdv']
37
38     for ext in tmpexts:
39         tmpfile=os.path.join(dir,filename)+ext
40         #print tmpfile
41         if os.path.exists(tmpfile):
42             print "Deleting %s" % tmpfile
43             os.unlink(tmpfile)
44
45 if __name__=='__main__':
46     attr=WConio.gettextinfo()[4]
47     if len(sys.argv)==1:
48         print helpmsg
49     if len(sys.argv)>1 :
50         options=[option.upper() for option in sys.argv[1:]]
51
52         exist=False
53         out_dir=os.path.dirname(os.path.abspath(sys.argv[1]))
54         filename=os.path.abspath(sys.argv[1])
55         filename_noext=filename
56         if os.path.abspath(sys.argv[1])[-4:].upper()=='.TEX':
```

```
57     filename_noext=sys.argv[1][: -4]
58     if os.path.abspath(sys.argv[1])[-4:].upper()=='.TEX' :
59         exist= os.path.exists(filename)
60     else:
61         exist= os.path.exists(filename_noext+".tex")
62
63     if exist:
64         printgoodnews('xelatex -halt-on-error -no-pdf -output-
        directory="%s" "%s"' %(out_dir,filename))
65         i=-1
66         j=-1
67         k=-1
68         i=os.system('xelatex -halt-on-error -no-pdf -output-directory
        ="%s" "%s"' %(out_dir, filename))
69         if i==0:
70             printgoodnews("The xelatex 1st run finished!")
71             j=os.system('xelatex -halt-on-error -no-pdf -output-
        directory="%s" "%s"' %(out_dir, filename))
72             if j==0:
73                 printgoodnews("The xelatex 2nd run finished!")
74
75                 if '-ENCRYPT' in options:
76                     k=os.system('xdvipdfmx -r 600 -E -V 5 -S -K 128 -P
        0x0804 -o "%s.pdf" "%s.xdv"' % (
        filename_noext,filename_noext))
77                 else:
78                     k=os.system('xdvipdfmx -r 600 -E -V 5 -o "%s.pdf"
        "%s.xdv"' % (filename_noext,filename_noext))
79
80                 if k==0:
81                     printgoodnews("xdvipdfmx finished!")
82                     if '-SHOWPDF' in options:
83                         k=os.startfile(filename_noext+".pdf")
84                         printgoodnews("Command 'showpdf' was executed!
        ")
85                     cleartmpfiles(sys.argv[1])
86                     printgoodnews("All finished!")
87                     sys.exit(0)
```



```
88         else:
89             printbadnews("Error on xdvipdfmx!")
90             sys.exit(-1)
91     else:
92         printbadnews("Error on the 2nd run !")
93         cleartmpfiles(sys.argv[1])
94         sys.exit(-1)
95     else:
96         printbadnews("Error on the 1st run !")
97         cleartmpfiles(sys.argv[1])
98         sys.exit(-1)
99     else:
100         printbadnews( "Error: where is your tex file %s?"%sys.argv
101                       [1])
102         sys.exit(-1)
```

Listing 1.1: py/xlotgo.py

```
1 # coding=utf-8
2
3 # =====
4 # 把有重码的项目与没有重码的条目分开
5 # =====
6
7 fa = open('output/part_conflict.txt','r')
8 fb = open('output/part_sig.txt','r')
9 out = open('chs.txt','w')
10
11 a = fa.readline()
12 b = fb.readline()
13
14 while (a != '') or (b != ''):
15     if a == '' :
16         out.write(b)
17         b = fb.readline()
18     elif b == '' :
19         out.write(a)
20         a = fa.readline()
```

```
21     else:
22         ra = a.rstrip().split('\t')
23         rb = b.rstrip().split('\t')
24         if ra[0] < rb[0] :
25             out.write(a)
26             a = fa.readline()
27         else:
28             out.write(b)
29             b = fb.readline()
30
31 fa.close()
32 fb.close()
33 out.close()
```

Listing 1.2: Helloworld2