



Mercurial > cpython

view Lib/fnmatch.py @ 102611:0de509a79181 2.7

log
graph
tags
bookmarks
branches
changeset
browse

Issue #27714: For IDLE's test_textview, backport 3.x subclass with mocks instead of overriding methods with mocks in original class and module. This makes the 2.7 test_textview nearly identical to the 3.5/.6 test. [#27714]

author Terry Jan Reedy <tjreedy@udel.edu>
date Wed, 10 Aug 2016 19:41:39 -0400 (31 hours ago)
parents [fe12c34c39eb](#)
children

file
latest
diff
comparison
annotate
file log
raw
help

line	source	line wrap: on
1	<i>"""Filename matching with shell patterns.</i>	
2		
3	<i>fnmatch(FILENAME, PATTERN) matches according to the local convention.</i>	
4	<i>fnmatchcase(FILENAME, PATTERN) always takes case in account.</i>	
5		
6	<i>The functions operate by translating the pattern into a regular</i>	
7	<i>expression. They cache the compiled regular expressions for speed.</i>	
8		
9	<i>The function translate(PATTERN) returns a regular expression</i>	
10	<i>corresponding to PATTERN. (It does not compile it.)</i>	
11	<i>"""</i>	
12		
13	import re	
14		
15	__all__ = ["filter", "fnmatch", "fnmatchcase", "translate"]	
16		
17	_cache = {}	
18	_MAXCACHE = 100	
19		
20	def _purge ():	
21	<i>"""Clear the pattern cache"""</i>	
22	_cache.clear()	
23		
24	def fnmatch (name, pat):	
25	<i>"""Test whether FILENAME matches PATTERN.</i>	
26		
27	<i>Patterns are Unix shell style:</i>	
28		
29	<i>* matches everything</i>	
30	<i>? matches any single character</i>	
31	<i>[seq] matches any character in seq</i>	
32	<i>[!seq] matches any char not in seq</i>	
33		
34	<i>An initial period in FILENAME is not special.</i>	
35	<i>Both FILENAME and PATTERN are first case-normalized</i>	
36	<i>if the operating system requires it.</i>	
37	<i>If you don't want this, use fnmatchcase(FILENAME, PATTERN).</i>	
38	<i>"""</i>	
39		
40	import os	
41	name = os.path.normcase(name)	
42	pat = os.path.normcase(pat)	
43	return fnmatchcase(name, pat)	
44		
45	def filter (names, pat):	

```

46     """Return the subset of the list NAMES that match PAT"""
47     import os, posixpath
48     result=[]
49     pat=os.path.normcase(pat)
50     try:
51         re_pat = _cache[pat]
52     except KeyError:
53         res = translate(pat)
54         if len(_cache) >= _MAXCACHE:
55             _cache.clear()
56         _cache[pat] = re_pat = re.compile(res)
57     match = re_pat.match
58     if os.path is posixpath:
59         # normcase on posix is NOP. Optimize it away from the loop.
60         for name in names:
61             if match(name):
62                 result.append(name)
63     else:
64         for name in names:
65             if match(os.path.normcase(name)):
66                 result.append(name)
67     return result
68
69 def fnmatchcase(name, pat):
70     """Test whether FILENAME matches PATTERN, including case.
71
72     This is a version of fnmatch() which doesn't case-normalize
73     its arguments.
74     """
75
76     try:
77         re_pat = _cache[pat]
78     except KeyError:
79         res = translate(pat)
80         if len(_cache) >= _MAXCACHE:
81             _cache.clear()
82         _cache[pat] = re_pat = re.compile(res)
83     return re_pat.match(name) is not None
84
85 def translate(pat):
86     """Translate a shell PATTERN to a regular expression.
87
88     There is no way to quote meta-characters.
89     """
90
91     i, n = 0, len(pat)
92     res = ''
93     while i < n:
94         c = pat[i]
95         i = i+1
96         if c == '*':
97             res = res + '.*'
98         elif c == '?':
99             res = res + '.'
100         elif c == '[':
101             j = i
102             if j < n and pat[j] == '!':
103                 j = j+1
104             if j < n and pat[j] == ']':
105                 j = j+1
106             while j < n and pat[j] != ']':
107                 j = j+1
108             if j >= n:

```

```
109         res = res + '\\['
110     else:
111         stuff = pat[i:j].replace('\\', '\\\\')
112         i = j+1
113         if stuff[0] == '!':
114             stuff = '^' + stuff[1:]
115         elif stuff[0] == '^':
116             stuff = '\\^' + stuff
117         res = '%s[%s]' % (res, stuff)
118     else:
119         res = res + re.escape(c)
120     return res + '\\Z(?ms)'
```
