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utils.py

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1  # -*- coding: utf-8 -*-
2  import six
3
4  QUOTES = {'"', u'''}
5
6
7  def give_another_quote(q):
8      """When you pass a quote character, returns you an another one if possible"""
9      for qc in QUOTES:
10         if qc != q:
11             return qc
12     else:
13         raise ValueError(u'Could not find a different quote for {}'.format(q))
14
15
16  def escape_filter(o):
17      """Tries to escape the values that are passed to filter as correctly as possible.
18
19      No standard way is followed, but at least it is simple.
20      """
21      if o is None:
22          return u'NULL'
23      if isinstance(o, int):
24          return str(o)
25      if not isinstance(o, six.string_types):
26          raise ValueError('Filters take only None, int or a string type')
27      if not o:
28          # Empty string
29          return u''
30      # Now enforce unicode
31      o = unicode_process(o)
32      if u'"' not in o:
33          # Simple case, just put the quote that does not exist in the string
34          return u'"' + o + u'"
35      elif u"'" not in o:
36          # Simple case, just put the quote that does not exist in the string
37          return u"'" + o + u"'"
38      else:
39          # Both are there, so start guessing
40          # Empty strings are sorted out, so the string must contain something.
41          # String with length == 1 are sorted out because if they have a quote, they would be quoted
42          # with the another quote in preceeding branch. Therefore the string is at least 2 chars long
43          # here which allows us to NOT check the length here.
44          first_char = o[0]
45          last_char = o[-1]
46          if first_char in QUOTES and last_char in QUOTES:
47              # The first and last chars definitely are quotes
48              if first_char == last_char:
49                  # Simple, just put another ones around them
50                  quote = give_another_quote(first_char)
51                  return quote + o + quote
52              else:
53                  # I don't like this but the nature of the escape is like that ...
54                  # Since now it uses both of the quotes, just pick the simple ones and surround it
55                  return u"'" + o + u'"
56          elif first_char not in QUOTES and last_char not in QUOTES:
57              # First and last chars are not quotes, so a simple solution
58              return u"'" + o + u"'"
59          else:
60              # One of the first or last chars is not a quote
61              if first_char in QUOTES:
62                  quote = give_another_quote(first_char)
63              else:
64                  # last_char
65                  quote = give_another_quote(last_char)
66              return quote + o + quote
67
68
69  def unicode_process(s):
70      if not isinstance(s, six.string_types):
71          if six.PY2:
72              if hasattr(s, '__unicode__'):
73                  s = unicode(s)
74              else:
75                  s = str(s)
76          else:
77              s = str(s)
78      if (six.PY3 and isinstance(s, bytes)) or (six.PY2 and isinstance(s, str)):
79          s = s.decode('utf-8')
80      # Here we have Unicode!
81      return s

```