

match_test.py

```
1: #!/usr/bin/env python
2: # -*- coding:utf-8 -*-
3:
4: import re, sys
5:
6: #####正規表現 コンパイル
7: #音節を抜き取る
8: re_onsetu = re.compile(u"[\u0F40-\u0FBC]+")
9: #基字一文字
10: #(?!...)→もし ... が次に続くものとマッチしなければマッチします
11: re_onsetu_kiji_only = re.compile(u"(?P<kiji>[\u0F40-\u0F6C])(?![\u0F71|\u0F90-\u0FBC])",re.X)
12:
13: #####
14: # 頭(ra)
15: re_onsetu_atama_r = re.compile(u"(?P<atama>\u0F62)(?P<kiji>[\u0F90\u0F92\u0F94\u0F97\u0F99\u0F9F
. \u0FA1\u0FA3\u0FA6\u0FA8\u0FA9\u0FAB])", re.X)
16: # 頭(la)
17: re_onsetu_atama_l = re.compile(u"(?P<atama>\u0F63)(?P<kiji>[\u0F90\u0F92\u0F94\u0F95\u0F97\u0F9F
. \u0FA1\u0FA4\u0FA6\u0FB7])",re.X)
18: # 頭(sa)
19: re_onsetu_atama_s = re.compile(u"(?P<atama>\u0F66)(?P<kiji>[\u0F90\u0F92\u0F94\u0F99\u0F9F
. \u0FA1\u0FA3\u0FA4\u0FA6\u0FA8\u0FA9])",re.X)
20:
21: #####
22: # #足(ya)
23: re_onsetu_ashi_y = re.compile(u"(?P<kiji>[\u0F40\u0F41\u0F42\u0F54\u0F55\u0F56\u0F58])(?P<ashi>
. \u0FB1\u0FAD\u0FB1)",re.X)
24: # #足(ra)
25: re_onsetu_ashi_r = re.compile(u"(?P<kiji>[\u0F40\u0F41\u0F42\u0F4F
. \u0F50\u0F51\u0F54\u0F55\u0F56\u0F58\u0F64\u0F66\u0F67])(?P<ashi>\u0FB2\u0FAD\u0FB2)",re.X)
26: # #足(la)
27: re_onsetu_ashi_l = re.compile(u"(?P<kiji>[\u0F40\u0F42\u0F56\u0F5F\u0F62\u0F66])(?P<ashi>\u0FB3)",re.X)
28: # #足(wa)
29: re_onsetu_ashi_w = re.compile(u"(?P<kiji>[\u0F40\u0F41\u0F42\u0F45\u0F49\u0F4F\u0F51\u0F59\u0F5A
. \u0F5E\u0F5F\u0F62\u0F63\u0F64\u0F66\u0F67])(?P<ashi>\u0FAD)?",re.X)
30:
31: #####
32: # 頭+基+足
33: re_onsetu_atama_ashi = re.compile(u""""
34: (?P<atama>[\u0F62\u0F66])(?P<kiji>[\u0F90\u0F92\u0FA4\u0FA6\u0FA8])(?P<ashi>[\u0FB1\u0FB2])
35: """,re.X)
36:
37: ##### #前置字(ga)の付く文字
38: re_onsetu_zen_g_kiji_only = re.compile(u"(?P<zen>\u0F42)(?P<kiji>[\u0F45\u0F49\u0F4F
. \u0F51\u0F53\u0F59\u0F5E\u0F5F\u0F61\u0F64\u0F66])",re.X)
39:
40: ##### 前置字(da)の付く文字
41: #足の y , 基(k,g,b,m)
42: re_onsetu_zen_d_ashi_y = re.compile(u"(?P<zen>\u0F51)(?P<kiji>[\u0F40\u0F42\u0F56\u0F58])(?P<ashi>
. \u0FB1\u0FAD\u0FB1)",re.X)
43: #足の r , 基(k,p,b)
44: re_onsetu_zen_d_ashi_r = re.compile(u"(?P<zen>\u0F51)(?P<kiji>[\u0F40\u0F54\u0F56])(?P<ashi>
. \u0FB2\u0FAD\u0FB2)",re.X)
45: ##
46: #基字のみ , 基(k,g,ng,p,b,m)
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47: re_onsetsu_zen_d_kiji_only = re.compile(u"(?P<zen>\u0F51)(?  
    P<kiji>[\u0F40\u0F42\u0F44\u0F54\u0F56\u0F58]),re.X)  
48:  
49: #####          #前置字(ba)の付く文字  
50: #頭と足  
51: re_onsetsu_zen_b_atama_ashi = re.compile(u"(?P<zen_atama>\u0F56[\u0F62\u0F66])(?P<kiji>[\u0F90\u0F92])(?  
    P<ashi>[\u0FB1\u0FB2]),re.X)  
52:  
53: #足の y , 基(k,g  
54: re_onsetsu_zen_b_ashi_y = re.compile(u"(?P<zen>\u0F56)(?P<kiji>[\u0F40\u0F42])(?P<ashi>\u0FB1\u0FAD|  
    \u0FB1)",re.X)  
55: #足の r , 基(k,g  
56: re_onsetsu_zen_b_ashi_r = re.compile(u"(?P<zen>\u0F56)(?P<kiji>[\u0F40\u0F42])(?P<ashi>\u0FB2\u0FAD|  
    \u0FB2)",re.X)  
57: #足の l , 基(r,s  
58: re_onsetsu_zen_b_ashi_l = re.compile(u"(?P<zen>\u0F56)(?P<kiji>[\u0F62\u0F66])(?P<ashi>\u0FB3)",re.X)  
59:  
60: #頭の r , 基(k,g,ng,j,ny,t,d,n,ts,dz  
61: re_onsetsu_zen_b_atama_r = re.compile(u"(?P<zen_atama>\u0F56\u0F62)(?  
    P<kiji>[\u0F90\u0F92\u0F94\u0F97\u0F99\u0F9F\u0FA1\u0FA3\u0FA9\u0FAB]),re.X)  
62: #頭の l , 基(t  
63: re_onsetsu_zen_b_atama_l = re.compile(u"(?P<zen_atama>\u0F56\u0F63)(?P<kiji>\u0F9F)",re.X)  
64: #頭の s , 基(k,g,ng,ny,t,d,n,ts  
65: re_onsetsu_zen_b_atama_s = re.compile(u"(?P<zen_atama>\u0F56\u0F66)(?  
    P<kiji>[\u0F90\u0F92\u0F94\u0F99\u0F9F\u0FA1\u0FA3\u0FA9]),re.X)  
66:  
67: #基字のみ(k,g,c,t,d,ts,zh,z,sh,s  
68: re_onsetsu_zen_b_kiji_only = re.compile(u"(?P<zen>\u0F56)(?P<kiji>[\u0F40\u0F42\u0F45\u0F4F  
    \u0F51\u0F59\u0F5E\u0F5F\u0F64\u0F66]),re.X)  
69:  
70: #####          #前置字(m)の付く文字  
71: #足の y , 基(kh,g  
72: re_onsetsu_zen_m_ashi_y = re.compile(u"(?P<zen>\u0F58)(?P<kiji>[\u0F41\u0F42])(?P<ashi>\u0FB1\u0FAD|  
    \u0FB1)",re.X)  
73: #足の r , 基(kh,g  
74: re_onsetsu_zen_m_ashi_r = re.compile(u"(?P<zen>\u0F58)(?P<kiji>[\u0F41\u0F42])(?P<ashi>\u0FB2\u0FAD|  
    \u0FB2)",re.X)  
75:  
76: #基字のみ(kh,g,ng,ch,j,ny,th,d,n,tsh,dz  
77: re_onsetsu_zen_m_kiji_only = re.compile(u"(?P<zen>\u0F58)(?  
    P<kiji>[\u0F41\u0F42\u0F44\u0F46\u0F47\u0F49\u0F50\u0F51\u0F53\u0F5A\u0F5B]),re.X)  
78:  
79: #####          #前置字('a)の付く文字  
80: #足の y , 基(kh,g,ph,b  
81: re_onsetsu_zen_a_ashi_y = re.compile(u"(?P<zen>\u0F60)(?P<kiji>[\u0F41\u0F42\u0F55\u0F56])(?P<ashi>  
    \u0FB1|\u0FB1\u0FAD)",re.X)  
82: #足の r , 基(kh,g,d,ph,b  
83: re_onsetsu_zen_a_ashi_r = re.compile(u"(?P<zen>\u0F60)(?P<kiji>[\u0F41\u0F42\u0F51\u0F55\u0F56])(?P<ashi>  
    \u0FB2\u0FAD|\u0FB2)",re.X)  
84:  
85: #      基字のみ(kh,g,ch,j,th,d,ph,b,tsh,dz  
86: re_onsetsu_zen_a_kiji_only = re.compile(u"(?P<zen>\u0F60)(?  
    P<kiji>[\u0F41\u0F42\u0F46\u0F47\u0F50\u0F51\u0F55\u0F56\u0F5A\u0F5B]),re.X)  
87:  
88: #      例外          # 子音字が続く場合、前の文字が基字である。
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89: re_two_shion = re.compile(u"^(?P<kiji>[\u0F40-\u0F6C])?(?  
    P<kochi>[\u0F42\u0F44\u0F51\u0F53\u0F56\u0F58\u0F60\u0F62\u0F63\u0F66])$",re.X)  
90:  
91: # 例外 # 子音字3つで最後が「a」の場合、真ん中が基字 ←使っていない。  
92: re_three_shion_last_a = re.compile(u"(?P<zen>[\u0F42\u0F51\u0F56\u0F58\u0F60])?(?P<kiji>[\u0F40-\u0F6C])  
    \u0F60",re.X)  
93:  
94: # 例外 # 子音字3つで最後が「s (\u0F66)」でない場合、真ん中が基字  
95: re_three_shion_last_not_s = re.compile(u"^(?P<zen>[\u0F42\u0F51\u0F56\u0F58\u0F60])?(?P<kiji>[\u0F40-  
    \u0F6C])?(?P<kochi>[\u0F42\u0F44\u0F51\u0F53\u0F56\u0F58\u0F60\u0F62\u0F63])$",re.X)  
96:  
97: # 例外 # 子音字3つで最後が「s」で、真ん中が「g,ng,b,m」でない場合、真ん中が基字  
98: re_three_shion_last_s_center_not_gngbm = re.compile(u"^(?P<zen>[\u0F42\u0F51\u0F56\u0F58\u0F60])?(  
    P<kiji>[\u0F40\u0F41\u0F45\u0F46\u0F47\u0F49\u0F4A\u0F4B\u0F4C\u0F4E\u0F4F  
    \u0F50\u0F51\u0F53\u0F54\u0F55\u0F59\u0F5A\u0F5B\u0F5D\u0F5E\u0F5F  
    \u0F60\u0F61\u0F62\u0F63\u0F64\u0F65\u0F66\u0F67\u0F68\u0F69\u0F6A\u0F6B\u0F6C])?(  
    P<kochi>[\u0F66])$",re.X)  
99:  
100: # 例外 # 子音字3つで最後が「s」で、真ん中が「g,ng,b,m」である場合、最初の文字が基字  
101: re_three_shion_last_m_center_gngbm = re.compile(u"^(?P<kiji>[\u0F40-\u0F6C])?(  
    P<kochi>[\u0F42\u0F44\u0F56\u0F58])\u0F66$",re.X)  
102:  
103: # 例外 # 個別の例外  
104: ## 「dgs」は g が基字 & 「dms」は m が基字  
105: re_reigai_kobetu_dgs_dms = re.compile(u"^(?P<zen>\u0F51)(?P<kiji>[\u0F42\u0F58])?(?P<kochi>\u0F66)$",re.X)  
106: ## 「ags」は g が基字  
107: re_reigai_kobetu_ags = re.compile(u"^(?P<zen>\u0F60)(?P<kiji>\u0F42)(?P<kochi>\u0F66)$",re.X)  
108: ## 「m,ng,s」は ng が基字  
109: re_reigai_kobetu_mngs = re.compile(u"^(?P<zen>\u0F58)(?P<kiji>\u0F44)(?P<kochi>\u0F66)$",re.X)  
110:  
111: #####残りを検索する  
112: re_boin_kochiji = re.compile(u""  
113: (?P<boin>[\u0F72\u0F74\u0F7A\u0F7C\u0F7E])? #母音  
114: (?P<kochi>[\u0F42\u0F44\u0F56\u0F58]\u0F66?|[\u0F51\u0F53\u0F60\u0F62\u0F63\u0F66]?  
    [\u0F72\u0F74\u0F7A\u0F7C]? #後置+再後置+例外  
115: """,re.X)  
116:  
117: ##### サンスクリット語 (基字)(足+)(母音?)  
118: re_skt = re.compile(u""  
119: (?P<kiji>[\u0F40-\u0F6C])(?P<ashi>[\u0F71|\u0F90-\u0FBC]+)(?P<boin>[\u0F71-\u0F83])?  
120: ((?P<kiji2>[\u0F40-\u0F6C])(?P<ashi2>[\u0F71\u0F90-\u0FBC]?)(?P<boin2>[\u0F71-\u0F83])?)?  
121: """,re.X)  
122:  
123: #####  
124: #マップオブジェクト  
125: kiji_map = { u"\u0F40":u'\u0F40', u"\u0F41":u'\u0F41', u"\u0F42":u'\u0F42', u"\u0F44":u'\u0F44',  
    u"\u0F45":u'\u0F45', u"\u0F46":u'\u0F46', u"\u0F47":u'\u0F47', u"\u0F49":u'\u0F49', u"\u0F4A":u'\u0F4A',  
    u"\u0F4B":u'\u0F4B', u"\u0F4C":u'\u0F4C', u"\u0F4E":u'\u0F4E', u"\u0F4F":u'\u0F4F', u"\u0F50":u'\u0F50',  
    u"\u0F51":u'\u0F51', u"\u0F53":u'\u0F53', u"\u0F54":u'\u0F54', u"\u0F55":u'\u0F55', u"\u0F56":u'\u0F56',  
    u"\u0F58":u'\u0F58', u"\u0F59":u'\u0F59', u"\u0F5A":u'\u0F5A', u"\u0F5B":u'\u0F5B', u"\u0F5D":u'\u0F5D',  
    u"\u0F5E":u'\u0F5E', u"\u0F5F":u'\u0F5F', u"\u0F60":u'\u0F60', u"\u0F61":u'\u0F61', u"\u0F62":u'\u0F62',  
    u"\u0F63":u'\u0F63', u"\u0F64":u'\u0F64', u"\u0F65":u'\u0F65', u"\u0F66":u'\u0F66', u"\u0F67":u'\u0F67',  
    u"\u0F68":u'\u0F68', u"\u0F69":u'\u0F69', u"\u0F6A":u'\u0F6A', u"\u0F6B":u'\u0F6B', u"\u0F6C":u'\u0F6C',  
    u"\u0F90":u'\u0F40', u"\u0F92":u'\u0F42', u"\u0F94":u'\u0F44', u"\u0F95":u'\u0F45', u"\u0F97":u'\u0F47',  
    u"\u0F99":u'\u0F49', u"\u0F9F":u'\u0F4F', u"\u0FA1":u'\u0F51', u"\u0FA3":u'\u0F53', u"\u0FA4":u'\u0F54',
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125: u"\u0FA6":u"\u0F56' , u"\u0FA8":u"\u0F58' , u"\u0FA9":u"\u0F59' , u"\u0FAB":u"\u0F5B' , u"\u0FB7":u"\u0F67'
126: }
127: ashi_map = {
128:     u"\u0FAD":u"\u0F40' , u"\u0FB1":u"\u0F41' , u"\u0FB1\u0FAD":u"\u0F42' , u"\u0FB2":u"\u0F43' ,
        u"\u0FB2\u0FAD":u"\u0F44' , u"\u0FB3":u"\u0F45' , u"\u0F71":u"" , u"\u0F90":u"\u0F40" , u"\u0F91":u"\u0F41" ,
        u"\u0F92":u"\u0F42" , u"\u0F94":u"\u0F44" , u"\u0F95":u"\u0F45' , u"\u0F96":u"\u0F46' ,
        u"\u0F97":u"\u0F47' , u"\u0F99":u"\u0F49' , u"\u0F9F":u"\u0F4F' , u"\u0FA0":u"\u0F50' , u"\u0FA1":u"\u0F51' ,
        u"\u0FA3":u"\u0F53' , u"\u0FA4":u"\u0F54' , u"\u0FA5":u"\u0F55' , u"\u0FA6":u"\u0F56' , u"\u0FA8":u"\u0F58' ,
        u"\u0FA9":u"\u0F59' , u"\u0FAA":u"\u0F5A' , u"\u0FAB":u"\u0F5B' , u"\u0FAE":u"\u0F5E' , u"\u0FAF":u"\u0F5F' ,
        u"\u0FBO":u"\u0F60' , u"\u0FB4":u"\u0F64' , u"\u0FB6":u"\u0F66' , u"\u0FB7":u"\u0F67' , u"\u0FB8":u"\u0F68' ,
        u"\u0FB9":u"\u0F69' , u"\u0FBA":u"\u0F6A' , u"\u0FBB":u"\u0F6B' , u"\u0FBC":u"\u0F6C'
129: }
130: zen_map = { u"\u0F42":u"\u0F5F' , u"\u0F51":u"\u0F61' , u"\u0F56":u"\u0F62' , u"\u0F58":u"\u0F63' ,
        u"\u0F60":u"\u0F64' }
131: atama_map = { u"\u0F62":u"\u0F65' , u"\u0F63":u"\u0F66' , u"\u0F66":u"\u0F67' }
132: zen_atama_map = { u"\u0F56\u0F62":u"\u0F68' , u"\u0F56\u0F63":u"\u0F69' , u"\u0F56\u0F66":u"\u0F6A' }
133: boin_map = {
134:     u"\u0F72" : u"\u0F21" , u"\u0F74" : u"\u0F22" , u"\u0F7A" : u"\u0F23" , u"\u0F7C" : u"\u0F24" , u"\u0F7E" :
        u"\u0F25"
135: }
136: #後置字 再後置字 例外
137: kochi_map = {
138:     u"\u0F42" : u"\u0F40' , u"\u0F42\u0F66" : u"\u0F41' , u"\u0F44" : u"\u0F42' , u"\u0F44\u0F66" : u"\u0F43' ,
        u"\u0F51" : u"\u0F44' , u"\u0F53" : u"\u0F45' , u"\u0F53\u0F72":u"\u0F46' , u"\u0F53\u0F74":u"\u0F47' ,
        u"\u0F53\u0F7A":u"\u0F49' , u"\u0F53\u0F7C":u"\u0F4A' , u"\u0F56" : u"\u0F4B' , u"\u0F56\u0F66" : u"\u0F4C' ,
        u"\u0F58" : u"\u0F4D' , u"\u0F58\u0F66" : u"\u0F4E' , u"\u0F60" : u"\u0F4F' , u"\u0F60\u0F72" : u"\u0F50' ,
        u"\u0F60\u0F74" : u"\u0F51' , u"\u0F60\u0F7A" : u"\u0F52' , u"\u0F60\u0F7C" : u"\u0F53' , u"\u0F62" :
        u"\u0F54' , u"\u0F62\u0F72":u"\u0F55' , u"\u0F62\u0F74":u"\u0F57' , u"\u0F62\u0F7A":u"\u0F58' ,
        u"\u0F62\u0F7C":u"\u0F59' , u"\u0F63" : u"\u0F5A' , u"\u0F63\u0F72":u"\u0F5B' , u"\u0F63\u0F74":u"\u0F5C' ,
        u"\u0F63\u0F7A":u"\u0F5D' , u"\u0F63\u0F7C":u"\u0F5E' , u"\u0F66" : u"\u0F5F' , u"\u0F66\u0F72":u"\u0F60' ,
        u"\u0F66\u0F74":u"\u0F61' , u"\u0F66\u0F7A":u"\u0F62' , u"\u0F66\u0F7C":u"\u0F63' , u"\u0F7A" : u"\u0F64' }
139:
140: #####
141: #書き出しのための関数
142: def kiji_pt(kiji,kiji_m):
143:     k_sk = ""
144:     m = kiji_m.match(kiji)
145:     if m:
146:         tango = m.groupdict()
147:         map = tango['kiji']
148:         k_sk = kiji_map[map]
149:         if tango.has_key('zen_atama') and tango['zen_atama']:
150:             map = tango['zen_atama']
151:             k_sk += zen_atama_map[map]
152:         if tango.has_key('atama') and tango['atama']:
153:             map = tango['atama']
154:             k_sk += atama_map[map]
155:         if tango.has_key('zen') and tango['zen']:
156:             map = tango['zen']
157:             k_sk += zen_map[map]
158:         if tango.has_key('ashi') and tango['ashi']:
159:             map = tango['ashi']
160:             k_sk += ashi_map[map]
161:     return k_sk
162:
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163:
164: def boin_kochiji(nokori):
165:     sk = ""
166:     sk2 = ""
167:     m = re_boin_kochiji.match(nokori)          #nokori の中身を正規表現でmatchさせる
168:     if not m.group('boin'):                    #母音がなければ
169:         sk = u'\u0F20'
170:     else:
171:         sk = boin_map[m.group('boin')]        #re_boin_kochiji にHITした文字列リストの1番目
172:         を、boin_map に入れ、書き換え
173:         if m.group('kochi'):
174:             sk2 = kochi_map[m.group('kochi')] #2番目を kochi に入れ、書き換え
175:         return sk + sk2
176: def kiji_pt_reigai(rkiji, rkiji_m):
177:     rk_sk = ""
178:     m = rkiji_m.match(rkiji)
179:     if m:
180:         tango = m.groupdict()
181:         map = tango['kiji']
182:         rk_sk = kiji_map[map]
183:         if tango.has_key('zen'):
184:             map = tango['zen']
185:             rk_sk += zen_map[map]
186:         if not tango.has_key('boin'):
187:             rk_sk += u'\u0F20'
188:         if tango.has_key('kochi'):
189:             map = tango['kochi']
190:             rk_sk += kochi_map[map]
191:     return rk_sk
192:
193: #####
194: #正規表現の「.match」
195: #どの条件にHITしたかを書く
196: def one_onsetsu(m):
197:     one_onsetsu = m.group()                    #H I Tした文字列のリストを変数に代入
198:     # ※例外#####          子音字が二つ続く場合、前が基字          ※例外
199:     mx = re_two_shion.match(one_onsetsu)
200:     if mx:
201:         rkiji_m = re_two_shion
202:         rkiji = one_onsetsu[mx.start():]
203:         sw1 = kiji_pt_reigai(rkiji, rkiji_m)
204:         return sw1
205: #####          前b + 頭 + 基 + 足
206:     mx = re_onsetsu_zen_b_atama_ashi.match(one_onsetsu)          #この正規表現にmatchしたならば、↓
207:     if mx:
208:         kiji_m = re_onsetsu_zen_b_atama_ashi
209:         kiji = one_onsetsu[mx.start():]
210:         sw1 = kiji_pt(kiji, kiji_m)
211:         nokori = one_onsetsu[mx.end():]        #match したものの後ろを nokori に入れる
212:         sw2 = boin_kochiji(nokori)            #boin_kochijiの関数を実行し、sw2に入れる
213:         return sw1 + sw2
214: #####
215: #####          個別の例外          #####
216:     mx = re_reigai_kobetu_dgs_dms.match(one_onsetsu)
```

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```
217:     if mx:
218:         rkiji_m = re_reigai_kobetu_dgs_dms
219:         rkiji = one_onsetsu[mx.start():]
220:         sw1 = kiji_pt_reigai(rkiji, rkiji_m)
221:         return sw1
222:     mx = re_reigai_kobetu_aggs.match(one_onsetsu)
223:     if mx:
224:         rkiji_m = re_reigai_kobetu_aggs
225:         rkiji = one_onsetsu[mx.start():]
226:         sw1 = kiji_pt_reigai(rkiji, rkiji_m)
227:         return sw1
228:     mx = re_reigai_kobetu_mngs.match(one_onsetsu)
229:     if mx:
230:         rkiji_m = re_reigai_kobetu_mngs
231:         rkiji = one_onsetsu[mx.start():]
232:         sw1 = kiji_pt_reigai(rkiji, rkiji_m)
233:         return sw1
234:     #####
235:     #     ※例外##### 子音字3つで最後が「s」でない場合、真ん中が基字 ※例外
236:     mx = re_three_shion_last_not_s.match(one_onsetsu)
237:     if mx:
238:         rkiji_m = re_three_shion_last_not_s
239:         rkiji = one_onsetsu[mx.start():]
240:         sw1 = kiji_pt_reigai(rkiji, rkiji_m)
241:         return sw1
242:     #     ※例外##### 子音字3つで最後が「s」で、真ん中が「g,ng,b,m」でない場合、真ん中が基字 ※例外
243:     mx = re_three_shion_last_s_center_not_gngbm.match(one_onsetsu)
244:     if mx:
245:         rkiji_m = re_three_shion_last_s_center_not_gngbm
246:         rkiji = one_onsetsu[mx.start():]
247:         sw1 = kiji_pt_reigai(rkiji, rkiji_m)
248:         return sw1
249:     #     ※例外##### 子音字3つで最後が「s」で、真ん中が「g,ng,b,m」である場合、最初の文字が基字 ※例外
250:     mx = re_three_shion_last_m_center_gngbm.match(one_onsetsu)
251:     if mx:
252:         rkiji_m = re_three_shion_last_m_center_gngbm
253:         rkiji = one_onsetsu[mx.start():]
254:         sw1 = kiji_pt_reigai(rkiji, rkiji_m)
255:         return sw1
256:     #####                 前b+頭+基
257:     mx = re_onsetsu_zen_b_atama_s.match(one_onsetsu)
258:     if mx:
259:         kiji_m = re_onsetsu_zen_b_atama_s
260:         kiji = one_onsetsu[mx.start():]
261:         sw1 = kiji_pt(kiji,kiji_m)
262:         nokori = one_onsetsu[mx.end():]
263:         sw2 = boin_kochiji(nokori)
264:         return sw1 + sw2
265:     mx = re_onsetsu_zen_b_atama_l.match(one_onsetsu)
266:     if mx:
267:         kiji_m = re_onsetsu_zen_b_atama_l
268:         kiji = one_onsetsu[mx.start():]
269:         sw1 = kiji_pt(kiji,kiji_m)
270:         nokori = one_onsetsu[mx.end():]
271:         sw2 = boin_kochiji(nokori)
```

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```
272:         return sw1 + sw2
273:     mx = re_onsetsu_zen_b_atama_r.match(one_onsetsu)
274:     if mx:
275:         kiji_m = re_onsetsu_zen_b_atama_r
276:         kiji = one_onsetsu[mx.start():]
277:         sw1 = kiji_pt(kiji,kiji_m)
278:         nokori = one_onsetsu[mx.end():]
279:         sw2 = boin_kochiji(nokori)
280:         return sw1 + sw2
281:     #####                前a+基+足
282:     mx = re_onsetsu_zen_a_ashi_r.match(one_onsetsu)
283:     if mx:
284:         kiji_m = re_onsetsu_zen_a_ashi_r
285:         kiji = one_onsetsu[mx.start():]
286:         sw1 = kiji_pt(kiji,kiji_m)
287:         nokori = one_onsetsu[mx.end():]
288:         sw2 = boin_kochiji(nokori)
289:         return sw1 + sw2
290:     mx = re_onsetsu_zen_a_ashi_y.match(one_onsetsu)
291:     if mx:
292:         kiji_m = re_onsetsu_zen_a_ashi_y
293:         kiji = one_onsetsu[mx.start():]
294:         sw1 = kiji_pt(kiji,kiji_m)
295:         nokori = one_onsetsu[mx.end():]
296:         sw2 = boin_kochiji(nokori)
297:         return sw1 + sw2
298:     #####                前m+基+足
299:     mx = re_onsetsu_zen_m_ashi_r.match(one_onsetsu)
300:     if mx:
301:         kiji_m = re_onsetsu_zen_m_ashi_r
302:         kiji = one_onsetsu[mx.start():]
303:         sw1 = kiji_pt(kiji,kiji_m)
304:         nokori = one_onsetsu[mx.end():]
305:         sw2 = boin_kochiji(nokori)
306:         return sw1 + sw2
307:     mx = re_onsetsu_zen_m_ashi_y.match(one_onsetsu)
308:     if mx:
309:         kiji_m = re_onsetsu_zen_m_ashi_y
310:         kiji = one_onsetsu[mx.start():]
311:         sw1 = kiji_pt(kiji,kiji_m)
312:         nokori = one_onsetsu[mx.end():]
313:         sw2 = boin_kochiji(nokori)
314:         return sw1 + sw2
315:     #####                前置字b 足の~
316:     mx = re_onsetsu_zen_b_ashi_l.match(one_onsetsu)
317:     if mx:
318:         kiji_m = re_onsetsu_zen_b_ashi_l
319:         kiji = one_onsetsu[mx.start():]
320:         sw1 = kiji_pt(kiji,kiji_m)
321:         nokori = one_onsetsu[mx.end():]
322:         sw2 = boin_kochiji(nokori)
323:         return sw1 + sw2
324:     mx = re_onsetsu_zen_b_ashi_r.match(one_onsetsu)
325:     if mx:
326:         kiji_m = re_onsetsu_zen_b_ashi_r
```

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```
327:         kiji = one_onsetsu[mx.start():]
328:         sw1 = kiji_pt(kiji,kiji_m)
329:         nokori = one_onsetsu[mx.end():]
330:         sw2 = boin_kochiji(nokori)
331:         return sw1 + sw2
332:     mx = re_onsetsu_zen_b_ashi_y.match(one_onsetsu)
333:     if mx:
334:         kiji_m = re_onsetsu_zen_b_ashi_y
335:         kiji = one_onsetsu[mx.start():]
336:         sw1 = kiji_pt(kiji,kiji_m)
337:         nokori = one_onsetsu[mx.end():]
338:         sw2 = boin_kochiji(nokori)
339:         return sw1 + sw2
340:     #####                前置字d 足
341:     mx = re_onsetsu_zen_d_ashi_r.match(one_onsetsu)
342:     if mx:
343:         kiji_m = re_onsetsu_zen_d_ashi_r
344:         kiji = one_onsetsu[mx.start():]
345:         sw1 = kiji_pt(kiji,kiji_m)
346:         nokori = one_onsetsu[mx.end():]
347:         sw2 = boin_kochiji(nokori)
348:         return sw1 + sw2
349:     mx = re_onsetsu_zen_d_ashi_y.match(one_onsetsu)
350:     if mx:
351:         kiji_m = re_onsetsu_zen_d_ashi_y
352:         kiji = one_onsetsu[mx.start():]
353:         sw1 = kiji_pt(kiji,kiji_m)
354:         nokori = one_onsetsu[mx.end():]
355:         sw2 = boin_kochiji(nokori)
356:         return sw1 + sw2
357:     #####                頭+基+足
358:     mx = re_onsetsu_atama_ashi.match(one_onsetsu)
359:     if mx:
360:         kiji_m = re_onsetsu_atama_ashi
361:         kiji = one_onsetsu[mx.start():]
362:         sw1 = kiji_pt(kiji,kiji_m)
363:         nokori = one_onsetsu[mx.end():]
364:         sw2 = boin_kochiji(nokori)
365:         return sw1 + sw2
366:
367:     #####                前置字a 基字のみ
368:     mx = re_onsetsu_zen_a_kiji_only.match(one_onsetsu)
369:     if mx:
370:         kiji_m = re_onsetsu_zen_a_kiji_only
371:         kiji = one_onsetsu[mx.start():]
372:         sw1 = kiji_pt(kiji,kiji_m)
373:         nokori = one_onsetsu[mx.end():]
374:         sw2 = boin_kochiji(nokori)
375:         return sw1 + sw2
376:     #####                前置字m 基字のみ
377:     mx = re_onsetsu_zen_m_kiji_only.match(one_onsetsu)
378:     if mx:
379:         kiji_m = re_onsetsu_zen_m_kiji_only
380:         kiji = one_onsetsu[mx.start():]
381:         sw1 = kiji_pt(kiji,kiji_m)
```


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```
382:         nokori = one_onsetsu[mx.end():]
383:         sw2 = boin_kochiji(nokori)
384:         return sw1 + sw2
385: #####          前置字b 基字のみ
386:         mx = re_onsetsu_zen_b_kiji_only.match(one_onsetsu)
387:         if mx:
388:             kiji_m = re_onsetsu_zen_b_kiji_only
389:             kiji = one_onsetsu[mx.start():]
390:             sw1 = kiji_pt(kiji,kiji_m)
391:             nokori = one_onsetsu[mx.end():]
392:             sw2 = boin_kochiji(nokori)
393:             return sw1 + sw2
394: #####          前置字d 基字のみ
395:         mx = re_onsetsu_zen_d_kiji_only.match(one_onsetsu)
396:         if mx:
397:             kiji_m = re_onsetsu_zen_d_kiji_only
398:             kiji = one_onsetsu[mx.start():]
399:             sw1 = kiji_pt(kiji,kiji_m)
400:             nokori = one_onsetsu[mx.end():]
401:             sw2 = boin_kochiji(nokori)
402:             return sw1 + sw2
403: #####          前置字g 基字のみ
404:         mx = re_onsetsu_zen_g_kiji_only.match(one_onsetsu)
405:         if mx:
406:             kiji_m = re_onsetsu_zen_g_kiji_only
407:             kiji = one_onsetsu[mx.start():]
408:             sw1 = kiji_pt(kiji,kiji_m)
409:             nokori = one_onsetsu[mx.end():]
410:             sw2 = boin_kochiji(nokori)
411:             return sw1 + sw2
412: #####          頭+基
413:         mx = re_onsetsu_atama_s.match(one_onsetsu)
414:         if mx:
415:             kiji_m = re_onsetsu_atama_s
416:             kiji = one_onsetsu[mx.start():]
417:             sw1 = kiji_pt(kiji,kiji_m)
418:             nokori = one_onsetsu[mx.end():]
419:             sw2 = boin_kochiji(nokori)
420:             return sw1 + sw2
421:         mx = re_onsetsu_atama_l.match(one_onsetsu)
422:         if mx:
423:             kiji_m = re_onsetsu_atama_l
424:             kiji = one_onsetsu[mx.start():]
425:             sw1 = kiji_pt(kiji,kiji_m)
426:             nokori = one_onsetsu[mx.end():]
427:             sw2 = boin_kochiji(nokori)
428:             return sw1 + sw2
429:         mx = re_onsetsu_atama_r.match(one_onsetsu)
430:         if mx:
431:             kiji_m = re_onsetsu_atama_r
432:             kiji = one_onsetsu[mx.start():]
433:             sw1 = kiji_pt(kiji,kiji_m)
434:             nokori = one_onsetsu[mx.end():]
435:             sw2 = boin_kochiji(nokori)
436:             return sw1 + sw2
```

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```
437: #####          基+足
438:     mx = re_onsetsu_ashi_l.match(one_onsetsu)
439:     if mx:
440:         kiji_m = re_onsetsu_ashi_l
441:         kiji = one_onsetsu[mx.start():]
442:         sw1 = kiji_pt(kiji,kiji_m)
443:         nokori = one_onsetsu[mx.end():]
444:         sw2 = boin_kochiji(nokori)
445:         return sw1 + sw2
446:     mx = re_onsetsu_ashi_r.match(one_onsetsu)
447:     if mx:
448:         kiji_m = re_onsetsu_ashi_r
449:         kiji = one_onsetsu[mx.start():]
450:         sw1 = kiji_pt(kiji,kiji_m)
451:         nokori = one_onsetsu[mx.end():]
452:         sw2 = boin_kochiji(nokori)
453:         return sw1 + sw2
454:     mx = re_onsetsu_ashi_y.match(one_onsetsu)
455:     if mx:
456:         kiji_m = re_onsetsu_ashi_y
457:         kiji = one_onsetsu[mx.start():]
458:         sw1 = kiji_pt(kiji,kiji_m)
459:         nokori = one_onsetsu[mx.end():]
460:         sw2 = boin_kochiji(nokori)
461:         return sw1 + sw2
462:     mx = re_onsetsu_ashi_w.match(one_onsetsu)
463:     if mx:
464:         kiji_m = re_onsetsu_ashi_w
465:         kiji = one_onsetsu[mx.start():]
466:         sw1 = kiji_pt(kiji,kiji_m)
467:         nokori = one_onsetsu[mx.end():]
468:         sw2 = boin_kochiji(nokori)
469:         return sw1 + sw2
470: #####          基字
471:     mx = re_onsetsu_kiji_only.match(one_onsetsu)
472:     if mx:
473:         kiji_m = re_onsetsu_kiji_only
474:         kiji = one_onsetsu[mx.start():]
475:         sw1 = kiji_pt(kiji,kiji_m)
476:         nokori = one_onsetsu[mx.end():]
477:         sw2 = boin_kochiji(nokori)
478:         return sw1 + sw2
479:
480: #####          サンスクリット語
481:     mx = re_skt.match(one_onsetsu)
482:     if mx:
483:         skt = ""
484:         tango = mx.groupdict()
485:         map = tango['kiji']
486:         skt = kiji_map[map]
487:         map = tango['ashi']
488:         for ch in map:
489:             skt += ashi_map[ch]
490:         if tango['boin']:
491:             map = tango['boin']
```

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```
492:         skt += boin_map[map]
493:     else:
494:         skt += u'\u0F20'
495:     if tango['kiji2']:
496:         map = tango['kiji2']
497:         skt += kiji_map[map]
498:     if tango['ashi2']:
499:         map = tango['ashi2']
500:         for ch in map:
501:             skt += ashi_map[ch]
502:     if tango['boin2']:
503:         map = tango['boin2']
504:         skt += boin_map[map]
505:     return skt
506:
507:
508: #####
509: #part3      ファイル・行の読み込み
510:
511: #subにマッチした文字列を関数「one_onsetsu」に入れる
512: # 「for 変数 in オブジェクト
513: #      実行される処理・・・」
514: #      →オブジェクトから要素を一つずつ変数に代入しながら繰り返しを行う
515: if len(sys.argv) == 1:
516:     fin = sys.stdin
517: else:
518:     fin = open(sys.argv[1], "rU")
519: debug = False
520: i = 0
521: for line in fin:
522:     line = unicode(line, "utf-8") #読み込んだ行をUnicodeに変換
523:     line2 = re_onsetsu.sub(one_onsetsu, line)
524:     if debug:
525:         print line2.encode('utf-8') + "," + line.encode("utf-8")
526:     else:
527:         print line2.encode('utf-8'),
```