

The `xepersian-hm` package Fixing kashida in xepersian Source code documentation

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1 `xepersian-hm` Implementation

1.1 File: `xepersian-hm.sty`

```
1 <*xepersian-hm-sty>
2 \NeedsTeXFormat{LaTeX2e}
3 \RequirePackage{expl3}[2020-03-06]
4 \@ifpackagelater{expl3}{2020-03-06}
5 {}
6 {%
7   \PackageError{xepersian-hm}{Support package l3kernel too old}
8   {%
9     Please install an up to date version of l3kernel\MessageBreak
10    using your TeX package manager or from CTAN.\MessageBreak
11    \MessageBreak
12    Loading xtemplate will abort!%
13  }%
14  \endinput
15 }
16 \RequirePackage{l3keys2e}
17 \RequirePackage{graphicx}[2019-11-30]
18 \RequirePackage{zref-savepos}[2020-03-03]
19 \RequirePackage{xepersian}
20 \ExplSyntaxOn
21 \ProvidesExplPackage {xepersian-hm} {2020-05-01} {0.5c} { Fixes~issues~in~xepersian~package }
22
23 \int_const:Nn \c_xephm_ksh_int {"0640} % kashida
24 \int_const:Nn \c_xephm_lrm_int {"200E} % left-right-mark
25 \int_const:Nn \c_xephm_zwj_int {"200D} % zero-width joiner
26
27 \int_const:Nn \c_xephm_two_int {2} % 2
```

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28 \int_const:Nn \c_xephm_four_int {4} % 4
29
30 \tl_const:Nn \c_xephm_skip_a_tl { 0 em plus 0.5 em }
31 \tl_const:Nn \c_xephm_skip_b_tl { 0.14 em plus 5.5 em }
32
33 \int_new:N \l_xephm_counter_int
34
35 \int_new:N \l_xephm_kashida_slot_int
36
37 \int_new:N \l_xephm_line_break_penalty_int
38
39 \int_new:N \l_xephm_min_penalty_int
40 \int_new:N \l_xephm_low_penalty_int
41 \int_new:N \l_xephm_med_penalty_int
42 \int_new:N \l_xephm_high_penalty_int
43 \int_new:N \l_xephm_max_penalty_int
44
45 \tl_new:N \l_xephm_line_break_tl
46
47 \tl_new:N \l_xephm_main_font_full_tl
48 \tl_new:N \l_xephm_main_font_name_tl
49
50 \tl_new:N \l_xephm_skip_default_tl
51
52 \tl_new:N \l_xephm_gap_filler_tl
53
54 \dim_new:N \l_xephm_diff_pos_dim
55
56 \bool_set_false:N \l_xephm_kashida_hm_fix_bool
57 \bool_set_false:N \l_xephm_linebreakpenalty_bool
58
59 \int_set:Nn \l_xephm_min_penalty_int { 0 }
60 \int_set:Nn \l_xephm_low_penalty_int { 8 }
61 \int_set:Nn \l_xephm_med_penalty_int { 15 }
62 \int_set:Nn \l_xephm_high_penalty_int { 25 }
63 \int_set:Nn \l_xephm_max_penalty_int { 10000 }
64
65 \tl_set:Nn \l_xephm_stretch_glyph_tl { glyph }
66 \tl_set:Nn \l_xephm_stretch_hrulerule_tl { hrulerule }
67
68 \tl_set:Nn \l_xephm_kayhan_tl { kayhan }
69 \tl_set:Nn \l_xephm_khorramshahr_tl { khorramshahr }
70 \tl_set:Nn \l_xephm_kayhannavaar_tl { kayhannavaar }
71 \tl_set:Nn \l_xephm_kayhanpook_tl { kayhanpook }
72 \tl_set:Nn \l_xephm_kayhansayeh_tl { kayhansayeh }
73 \tl_set:Nn \l_xephm_khoramshahr_tl { khoramshahr }
74 \tl_set:Nn \l_xephm_khorramshahr_tl { khorramshahr }
75 \tl_set:Nn \l_xephm_niloofar_tl { niloofar }
76 \tl_set:Nn \l_xephm_paatch_tl { paatch }
77 \tl_set:Nn \l_xephm_riyaz_tl { riyaz }

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78 \tl_set:Nn \l_xephm_roya_tl { roya }
79 \tl_set:Nn \l_xephm_shafigh_tl { shafigh }
80 \tl_set:Nn \l_xephm_shafighKurd_tl { shafighKurd }
81 \tl_set:Nn \l_xephm_shafighUzbek_tl { shafighUzbek }
82 \tl_set:Nn \l_xephm_shiraz_tl { shiraz }
83 \tl_set:Nn \l_xephm_sols_tl { sols }
84 \tl_set:Nn \l_xephm_tabriz_tl { tabriz }
85 \tl_set:Nn \l_xephm_titr_tl { titr }
86 \tl_set:Nn \l_xephm_titre_tl { titre }
87 \tl_set:Nn \l_xephm_traffic_tl { traffic }
88 \tl_set:Nn \l_xephm_vahid_tl { vahid }
89 \tl_set:Nn \l_xephm_vosta_tl { vosta }
90 \tl_set:Nn \l_xephm_yaghut_tl { yaghut }
91 \tl_set:Nn \l_xephm_yagut_tl { yagut }
92 \tl_set:Nn \l_xephm_yas_tl { yas }
93 \tl_set:Nn \l_xephm_yekan_tl { yekan }
94 \tl_set:Nn \l_xephm_ymook_tl { yermook }
95 \tl_set:Nn \l_xephm_zar_tl { zar }
96 \tl_set:Nn \l_xephm_ziba_tl { ziba }
97 \tl_set:Nn \l_xephm_default_tl { default }
98 \tl_set:Nn \l_xephm_noskip_tl { noskip }
99
100 \msg_new:nnx { xepersian-hm } { kashida-character-is-not-available-in-the-main-font }
101 {
102   Sorry,~ kashida~ character~ is~ not~ available~ in~ the~ main~ font~!
103 }
104
105 \msg_new:nnx { xepersian-hm } { value-not-available-for-kashida-option }
106 {
107   Sorry,~ value~ '\l_xephm_gap_filler_tl'~ is~ not~ available~ for~ kashida~ option~ yet~!
108 }
109
110 \keys_define:nn { xepersian-hm }
111 {
112   Kashida .code:n =
113   {
114     \tl_set:Nn \l_tmpa_tl { #1 }
115     \tl_case:NnTF \l_tmpa_tl
116     {
117       \l_xephm_stretch_glyph_tl
118     {
119       \tl_set:Nn \l_xephm_gap_filler_tl { \l_xephm_stretch_glyph_tl }
120       \AtBeginDocument
121       {
122         \tl_set:Nx \l_xephm_main_font_full_tl { \tex_fontname:D \tex_the:D \tex_font:D }
123         \tl_set:Nx \l_xephm_main_font_name_tl { \l_xephm_main_font_full_tl }
124         \regex_replace_once:nnN { ^"([^\s]+)/.* } { \1 } \l_xephm_main_font_name_tl
125         \int_set:Nn \l_xephm_kashida_slot_int { \xetex_charglyph:D \c_xephm_ksh_int }
126         \int_compare:nT { \l_xephm_kashida_slot_int = \c_zero_int }
127         {

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128             \msg_error:nn { xepersian-hm } { kashida-character-is-not-available-in-the-m
129             }
130         }
131     }
132     \l_xephm_stretch_hruler_tl
133     {
134         \tl_set:Nn \l_xephm_gap_filler_tl { \l_xephm_stretch_hruler_tl }
135     }
136     } { } { \tl_set:Nn \l_xephm_filler_default_tl { #1 } }
137     \bool_set_true:N \l_xephm_kashida_hm_fix_bool
138     \tex_input:D { kashida-xepersian-hm.def }
139 } ,
140
141 linebreakpenalty .code:n =
142 {
143     \int_set:Nn \l_tmpa_int { #1 }
144     \int_case:nnTF \l_tmpa_int
145     {
146         \l_xephm_min_penalty_int { \int_set:Nn \l_xephm_line_break_penalty_int { \l_xephm_min_per
147         \l_xephm_low_penalty_int { \int_set:Nn \l_xephm_line_break_penalty_int { \l_xephm_low_per
148         \l_xephm_med_penalty_int { \int_set:Nn \l_xephm_line_break_penalty_int { \l_xephm_med_per
149         \l_xephm_high_penalty_int { \int_set:Nn \l_xephm_line_break_penalty_int { \l_xephm_high_
150         \l_xephm_max_penalty_int { \int_set:Nn \l_xephm_line_break_penalty_int { \l_xephm_max_per
151     } { } { \int_set:Nn \l_xephm_line_break_penalty_int { #1 } }
152     \bool_set_true:N \l_xephm_linebreakpenalty_bool
153 } ,
154
155 kashidastretch .code:n =
156 {
157     \tl_set:Nn \l_tmpb_tl { #1 }
158     \tl_case:NnTF \l_tmpb_tl
159     {
160         \l_xephm_kayhan_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.14 em plus 0.5 em }
161         \l_xephm_khorramshahr_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.131 em plus 0.5 em }
162         \l_xephm_kayhannavaar_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.129 em plus 0.5 em }
163         \l_xephm_kayhanpook_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.133 em plus 0.5 em }
164         \l_xephm_kayhansayeh_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.135 em plus 0.5 em }
165         \l_xephm_khoramshahr_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.128 em plus 0.5 em }
166         \l_xephm_khorramshahr_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.13 em plus 0.5 em }
167         \l_xephm_niloofer_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.132 em plus 0.5 em }
168         \l_xephm_paatch_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.127 em plus 0.5 em }
169         \l_xephm_riyaz_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.125 em plus 0.5 em }
170         \l_xephm_roya_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.142 em plus 0.5 em }
171         \l_xephm_shafigh_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.143 em plus 0.5 em }
172         \l_xephm_shafighKurd_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.126 em plus 0.5 em }
173         \l_xephm_shafighUzbek_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.123 em plus 0.5 em }
174         \l_xephm_shiraz_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.122 em plus 0.5 em }
175         \l_xephm_sols_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.124 em plus 0.5 em }
176         \l_xephm_tabriz_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.119 em plus 0.5 em }
177         \l_xephm_titr_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.12 em plus 0.5 em }

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178         \l_xephm_titre_tl      { \tl_set:Nn \l_xephm_skip_default_tl { 0.121 em plus 0.5 em }
179         \l_xephm_traffic_tl     { \tl_set:Nn \l_xephm_skip_default_tl { 0.124 em plus 0.5 em }
180         \l_xephm_vahid_tl       { \tl_set:Nn \l_xephm_skip_default_tl { 0.134 em plus 0.5 em }
181         \l_xephm_vosta_tl       { \tl_set:Nn \l_xephm_skip_default_tl { 0.136 em plus 0.5 em }
182         \l_xephm_yaghut_tl      { \tl_set:Nn \l_xephm_skip_default_tl { 0.138 em plus 0.5 em }
183         \l_xephm_yagut_tl       { \tl_set:Nn \l_xephm_skip_default_tl { 0.137 em plus 0.5 em }
184         \l_xephm_yas_tl         { \tl_set:Nn \l_xephm_skip_default_tl { 0.126 em plus 0.5 em }
185         \l_xephm_yekan_tl       { \tl_set:Nn \l_xephm_skip_default_tl { 0.141 em plus 0.5 em }
186         \l_xephm_ermook_tl      { \tl_set:Nn \l_xephm_skip_default_tl { 0.139 em plus 0.5 em }
187         \l_xephm_zar_tl         { \tl_set:Nn \l_xephm_skip_default_tl { 0.116 em plus 0.5 em }
188         \l_xephm_ziba_tl        { \tl_set:Nn \l_xephm_skip_default_tl { 0.119 em plus 0.5 em }
189         \l_xephm_default_tl     { \tl_set:Nn \l_xephm_skip_default_tl { 0.14 em plus 0.5 em }
190         \l_xephm_noskip_tl      { \tl_set:Nn \l_xephm_skip_default_tl { 0 em plus 0.5 em }
191     } { } { \tl_set:Nn \l_xephm_skip_default_tl { #1 } }
192 } ,
193 kashidastretch .default:n = \tl_set:Nn \l_xephm_skip_default_tl { 0 em plus 0.5 em } ,
194 }
195
196 \ProcessKeysOptions { xepersian-hm }
197
198 \ExplSyntaxOff
199 \endinput
200 </xepersian-hm-sty>

```

1.2 File: kashida-xepersian-hm.def

```

201 <*kashida-xepersian-hm-def>
202 \ExplSyntaxOn
203 \ProvidesExplFile {kashida-xepersian-hm.def} {2020-05-01} {0.5c} { Fixes~implementation-of~Kashida-i
204
205 \newXeTeXintercharclass \c_xephm_d_charclass % dual-joiner class
206 \newXeTeXintercharclass \c_xephm_l_charclass % lam
207 \newXeTeXintercharclass \c_xephm_r_charclass % right-joiner
208 \newXeTeXintercharclass \c_xephm_a_charclass % alef
209 \newXeTeXintercharclass \c_xephm_y_charclass % yeh
210
211 %% Partly adapted from LaTeX2e source
212 \cs_new:Nn \xephm_line_break: {
213   \if_mode_vertical:
214     \GenericError{
215       \space\space\space\space\space\space\space\space\space\space\space\space\space\space
216     }{
217       LaTeX Error: There's no line here to end
218     }{
219       See the LaTeX manual or LaTeX Companion for explanation.
220     }{
221       Your command was ignored.\MessageBreak
222       Type \space I <command> <return> \space to replace it~
223       with another command,\MessageBreak
224       or \space <return> \space to continue without it.}

```

```

225 \else:
226   \l_tmpa_skip \tex_lastskip:D
227   \tex_unskip:D
228   \tex_penalty:D -\l_xephm_line_break_penalty_int
229   \dim_compare:nT { \l_tmpa_skip > \c_zero_skip }
230     { \skip_horizontal:N \l_tmpa_skip \tex_ignorespaces:D }
231 \fi:
232 }
233
234 \NewDocumentCommand { \discouragebadlinebreaks } { 0{\l_xephm_line_break_penalty_int} 0{\c_xephm_ski
235 {
236   \IfNoValueF {#1}
237     { \int_set:Nn \l_xephm_line_break_penalty_int {#1} }
238   \IfNoValueF {#2}
239     { \tl_set:Nn \l_xephm_skip_default_tl {#2} }
240   \xephm_put_line_breaks:n { #3 }
241 }
242
243 \cs_new_protected:Nn \xephm_put_line_breaks:n
244 {
245   \tl_set:Nn \l_xephm_line_break_tl { #1 }
246   \regex_replace_all:nnN { +([                ]) { \ \0 \ \c{xephm_line_break:}\ } \l_xephm_lin
247   \tl_use:N \l_xephm_line_break_tl
248 }
249
250 %% Partly adapted from the code provided by David Carlisle in:
251 %% https://tex.stackexchange.com/questions/356709/how-to-know-the-width-and-fill-the-glue-space-between
252 \cs_new:Npn \xephm_kashida_glyph #1
253 {
254   \bool_if:NT \l_xephm_kashida_hm_fix_bool
255   {
256     \c_xephm_lrm_int\tex_penalty:D 10000
257     \mode_leave_vertical:
258     \tex_global:D \tex_advance:D \l_xephm_counter_int \c_one_int
259
260     \tl_set:Nx \l_xephm_pos_tl { pos_\tex_romannumeral:D \l_xephm_counter_int }
261     \tl_set:Nx \l_xephm_zref_tl { zref_\tex_romannumeral:D \l_xephm_counter_int }
262
263     \zsaveposx{x_i\_l_xephm_zref_tl}
264     \tl_set:Nx \l_tmpa_tl
265       {
266         \iow_now:cx { @auxout }
267         {
268           \ExplSyntaxOn
269           \tl_gset:Nn \exp_after:wN \token_to_str:N \cs:w get_x_i\_l_xephm_pos_tl \cs_end: { \zposx{
270             \ExplSyntaxOff
271           }
272         }
273       }
274     \l_tmpa_tl
275     \skip_horizontal:n { #1 }

```

```

275 \zsaveposx{x_f\l_xephm_zref_tl}
276 \tl_set:Nx \l_tmpa_tl
277 {
278   \iow_now:cx { @auxout }
279   {
280     \ExplSyntaxOn
281     \tl_gset:Nn \exp_after:wN \token_to_str:N \cs:w get_x_f\l_xephm_pos_tl \cs_end: { \zposx{
282     \ExplSyntaxOff
283   }
284 }
285 \l_tmpa_tl
286 \exp_after:wN
287 \if_meaning:w
288   \cs:w get_x_i\l_xephm_pos_tl \cs_end: \tex_relax:D
289 \else:
290   \dim_set:Nn \l_xephm_diff_pos_dim
291   {
292     \dim_eval:n { \cs:w get_x_i\l_xephm_pos_tl \cs_end: sp - \cs:w get_x_f\l_xephm_pos_tl \cs_
293   }
294   \dim_compare:nTF { \l_xephm_diff_pos_dim == 0sp }
295   { }
296   { \llap { \resizebox { \l_xephm_diff_pos_dim \tex_relax:D } { \height } { \c_xephm_ksh_int }
297 \fi:
298 }
299 }
300
301 %% Partly adapted from the code provided by Jonathan Kew in:
302 %% https://tug.org/pipermail/xetex/2009-February/012307.html.
303 %% Somebody notified me that the code in 'kashida-xepersian.def' from xepersian
304 %% package is an exact copy of Jonathan Kew's code. Being unaware of this, in
305 %% the earlier versions of this package I made a mistake and acknowledged
306 %% Vafa Khalighi instead of Jonathan Kew. A sincere thank you to Jonathan Kew
307 %% for his excellent code.
308 \cs_new:Npn \xephm_kashida_hrule #1
309 {
310   \bool_if:NT \l_xephm_kashida_hm_fix_bool
311   {
312     \c_xephm_lrm_int\c_xephm_zwj_int\tex_penalty:D 10000
313     \tex_leaders:D \tex_hrule:D height \XeTeXglyphbounds \c_xephm_two_int
314     \int_use:N \XeTeXcharglyph \c_xephm_ksh_int depth \XeTeXglyphbounds \c_xephm_four_int
315     \int_use:N \XeTeXcharglyph \c_xephm_ksh_int \skip_horizontal:n { #1 }
316     \c_xephm_zwj_int
317   }
318 }
319
320 \XeTeXinterchartokenstate = 1
321
322 \clist_set:Nn \l_xephm_a_clist { 0622,0623,0625,0627 } %
323 \clist_map_inline:Nn \l_xephm_a_clist
324 {

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325 \XeTeXcharclass "#1 \c_xephm_a_charclass
326 }
327
328 \clist_set:Nn \l_xephm_d_clist { 0626,0628,062A,062B,062C,062D,062E,0633,0634,0635,0636,0637,0638,0639,063A,063B,063C,063D,063E,063F,0640,0641,0642,0643,0644,0645,0646,0647,0648,0649,064A,064B,064C,064D,064E,064F,0650,0651,0652,0653,0654,0655,0656,0657,0658,0659,065A,065B,065C,065D,065E,065F,0660,0661,0662,0663,0664,0665,0666,0667,0668,0669,066A,066B,066C,066D,066E,066F,0670,0671,0672,0673,0674,0675,0676,0677,0678,0679,067A,067B,067C,067D,067E,067F,0680,0681,0682,0683,0684,0685,0686,0687,0688,0689,068A,068B,068C,068D,068E,068F,0690,0691,0692,0693,0694,0695,0696,0697,0698,0699,069A,069B,069C,069D,069E,069F,06A0,06A1,06A2,06A3,06A4,06A5,06A6,06A7,06A8,06A9,06AA,06AB,06AC,06AD,06AE,06AF,06B0,06B1,06B2,06B3,06B4,06B5,06B6,06B7,06B8,06B9,06BA,06BB,06BC,06BD,06BE,06BF,06C0,06C1,06C2,06C3,06C4,06C5,06C6,06C7,06C8,06C9,06CA,06CB,06CC,06CD,06CE,06CF,06D0,06D1,06D2,06D3,06D4,06D5,06D6,06D7,06D8,06D9,06DA,06DB,06DC,06DD,06DE,06DF,06E0,06E1,06E2,06E3,06E4,06E5,06E6,06E7,06E8,06E9,06EA,06EB,06EC,06ED,06EE,06EF,06F0,06F1,06F2,06F3,06F4,06F5,06F6,06F7,06F8,06F9,06FA,06FB,06FC,06FD,06FE,06FF }
329 \clist_map_inline:Nn \l_xephm_d_clist
330 {
331 \XeTeXcharclass "#1 \c_xephm_d_charclass
332 }
333
334 \clist_set:Nn \l_xephm_l_clist { 0644 } %
335 \clist_map_inline:Nn \l_xephm_l_clist
336 {
337 \XeTeXcharclass "#1 \c_xephm_l_charclass
338 }
339
340 \clist_set:Nn \l_xephm_r_clist { 0624,0629,062F,0630,0631,0632,0648,0698 } % , , , , , , ,
341 \clist_map_inline:Nn \l_xephm_r_clist
342 {
343 \XeTeXcharclass "#1 \c_xephm_r_charclass
344 }
345
346 \clist_set:Nn \l_xephm_y_clist { 0649,064A,06CC } % , ,
347 \clist_map_inline:Nn \l_xephm_y_clist
348 {
349 \XeTeXcharclass "#1 \c_xephm_y_charclass
350 }
351
352 \str_case:VnTF \l_xephm_gap_filler_tl
353 {
354 \l_xephm_stretch_glyph_tl
355 {
356 \XeTeXinterchartoks \c_xephm_y_charclass \c_xephm_y_charclass =
357 {
358 \bool_if:NTF \l_xephm_kashida_hm_fix_bool
359 { \c_xephm_zwj_int \xephm_kashida_glyph \l_xephm_skip_default_tl \c_xephm_zwj_int }
360 { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
361 }
362 \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_y_charclass =
363 {
364 \bool_if:NTF \l_xephm_kashida_hm_fix_bool
365 { \c_xephm_zwj_int \xephm_kashida_glyph \l_xephm_skip_default_tl \c_xephm_zwj_int }
366 { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
367 }
368 \XeTeXinterchartoks \c_xephm_y_charclass \c_xephm_d_charclass =
369 { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
370 \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_d_charclass =
371 { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
372 \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_d_charclass =
373 { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
374 \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_l_charclass =

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375     { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
376 \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_l_charclass =
377     { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
378 \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_r_charclass =
379     { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
380 \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_a_charclass =
381     { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
382 \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_r_charclass =
383     { \c_xephm_zwj_int \xephm_kashida_glyph \c_xephm_skip_a_tl \c_xephm_zwj_int }
384 \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_a_charclass =
385     { }
386 }
387 \l_xephm_stretch_hruler_tl
388 {
389     \XeTeXinterchartoks \c_xephm_y_charclass \c_xephm_y_charclass =
390     {
391         \bool_if:NTF \l_xephm_kashida_hm_fix_bool
392         { \xephm_kashida_hruler \l_xephm_skip_default_tl }
393         { \xephm_kashida_hruler \c_xephm_skip_a_tl }
394     }
395     \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_y_charclass =
396     {
397         \bool_if:NTF \l_xephm_kashida_hm_fix_bool
398         { \xephm_kashida_hruler \l_xephm_skip_default_tl }
399         { \xephm_kashida_hruler \c_xephm_skip_a_tl }
400     }
401     \XeTeXinterchartoks \c_xephm_y_charclass \c_xephm_d_charclass =
402     { \xephm_kashida_hruler \c_xephm_skip_a_tl }
403     \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_d_charclass =
404     { \xephm_kashida_hruler \c_xephm_skip_a_tl }
405     \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_d_charclass =
406     { \xephm_kashida_hruler \c_xephm_skip_a_tl }
407     \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_l_charclass =
408     { \xephm_kashida_hruler \c_xephm_skip_a_tl }
409     \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_l_charclass =
410     { \xephm_kashida_hruler \c_xephm_skip_a_tl }
411     \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_r_charclass =
412     { \xephm_kashida_hruler \c_xephm_skip_a_tl }
413     \XeTeXinterchartoks \c_xephm_d_charclass \c_xephm_a_charclass =
414     { \xephm_kashida_hruler \c_xephm_skip_a_tl }
415     \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_r_charclass =
416     { \xephm_kashida_hruler \c_xephm_skip_a_tl }
417     \XeTeXinterchartoks \c_xephm_l_charclass \c_xephm_a_charclass =
418     { }
419 }
420 } { } { \msg_error:nn { xepersian-hm } { value-not-available-for-kashida-option } }
421
422 \NewDocumentCommand \KashidaHMFixOn {} { \bool_set_true:N \l_xephm_kashida_hm_fix_bool }
423 \NewDocumentCommand \KashidaHMFixOff {} { \bool_set_false:N \l_xephm_kashida_hm_fix_bool }
424

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425 \tex_let:D \KashidaOn \KashidaHMFixOn
426 \tex_let:D \KashidaOff \KashidaHMFixOff
427
428 \bool_if:NTF \l_xephm_kashida_hm_fix_bool
429 {
430   \tl_if_empty:NT \l_xephm_skip_default_tl { \tl_set:Nn \l_xephm_skip_default_tl { 0.14 em plus 0
431 }
432 {
433   \tl_set:NV \l_xephm_skip_default_tl \c_xephm_skip_a_tl
434 }
435
436 \ExplSyntaxOff
437
438 \makeatletter
439 \newif\if@Kashida@on
440 \newif\if@Kashida@XB@fix
441 \makeatother
442
443 \endinput
444 </kashida-xepersian-hm-def>

```

Acknowledgements

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