Esperanto Module for datetime2 Package

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This module is currently unmaintained and may be subject to change. If you want to volunteer to take over maintanance, contact me at http://www.dickimaw-books.com/contact.html

Abstract

This is the Esperanto language module for the datetime2 package. If you want to use the settings in this module you must install it in addition to installing datetime2. If you use babel or polyglossia, you will need this module to prevent them from redefining \today. The datetime2 useregional setting must be set to text or numeric for the language styles to be set. Alternatively, you can set the style in the document using \DTMsetstyle, but this may be changed by \date \language \delta depending on the value of the useregional setting.

I've copied the date style from babel-esperanto's \today.

I don't know if these settings are correct as I can't speak Esperanto. In particular, I don't know if the esperanto time style is correct. Currently this just uses the default time style. Please be aware that this may change. Whoever takes over maintanance of this module may can change it as appropriate.

The new maintainer should add the line:

The Current Maintainer of this work is Name.

to the preamble part in datetime2-esperanto.ins where Name is the name of the maintainer(s) and replace the 'inactive' status to 'maintained'.

Currently there is only a regionless style.

1 The Code

1.1 UTF-8

This file contains the settings that use UTF-8 characters. This file is loaded if XeLaTeX or LuaLaTeX are used. Please make sure your text editor is set to UTF-8 if you want to view this code. Identify module

1 \ProvidesDateTimeModule{esperanto-utf8}[2015/03/30 v1.0]

\DTMesperantoordinal

```
2\newcommand*{\DTMesperantoordinal}[1]{%
3 \number#1-a%
4}
```

\DTMesperantomonthname

Esperanto month names.

- 5 \newcommand*{\DTMesperantomonthname}[1]{%
- 6 \ifcase#1
- 7 \or
- 8 januaro%
- 9 \or
- 10 februaro%
- 11 \or
- 12 marto%
- 13 \or
- 14 aprilo%
- 15 \or
- 16 majo%
- 17 \or
- 18 junio%
- 19 \or
- 20 julio%
- 21 **or**
- 22 aŭgusto%
- 23 \or
- 24 septembro%
- 25 \or
- 26 oktobro%
- 27 \or
- 28 novembro%
- 29 \or
- 30 decembro%
- 31 \fi
- 32 }

\DTMesperantoMonthname

As above but capitalize.

- 33 \newcommand*{\DTMesperantoMonthname}[1]{%
 34 \ifcase#1
- 35 \or
- 36 Januaro%
- 37 \or
- 38 Februaro%
- 39 \or
- 40 Marto%
- 41 \or
- 42 Aprilo%
- 43 \or
- 44 Majo%
- 45 \or

```
Junio%
46
    \or
47
    Julio%
48
    \or
49
    Aŭgusto%
50
51
    \or
    Septembro%
52
53
    Oktobro%
54
    \or
55
    Novembro%
56
57
    \or
    Decembro%
58
59
    \fi
60 }
```

If abbreviated dates are supported, short month names should be likewise provided.

1.2 ASCII

This file contains the settings that use LaTeX commands for non-ASCII characters. This should be input if neither XeLaTeX nor LuaLaTeX are used. Even if the user has loaded inputenc with utf8, this file should still be used not the datetime2-esperanto-utf8.ldf file as the non-ASCII characters are made active in that situation and would need protecting against expansion. Identify module

61 \ProvidesDateTimeModule{esperanto-ascii}[2015/03/30 v1.0]

If abbreviated dates are supported, short month names should be likewise provided.

$\verb|\DTMesperantoordinal||$

```
62 \newcommand* {\DTMesperantoordinal}[1]{%
63 \number#1--a%
64}
```

\DTMesperantomonthname

Esperanto month names.

```
65 \newcommand* {\DTMesperantomonthname} [1] {%
    \ifcase#1
    \or
67
68
    januaro%
69
    \or
    februaro%
70
71
    \or
72
    marto%
73
    \or
    aprilo%
74
    \or
75
   majo%
76
77
    \or
78
    junio%
```

```
\or
79
     julio%
80
     \or
81
     a\protect\u\{u\}gusto\%
82
     \or
83
     septembro%
84
85
     oktobro%
86
     \or
87
    novembro%
88
     \or
89
     decembro%
90
     \fi
91
92 }
As above but capitalize.
93 \newcommand* {\DTMesperantoMonthname} [1] {%
     \ifcase#1
94
     \or
95
     Januaro%
96
     \or
97
     Februaro%
98
     \or
99
     Marto%
100
     \or
101
     Aprilo%
102
103
     \or
104
     Majo%
     \or
105
     Junio%
106
     \or
107
     Julio%
108
109
     A\protect\u{u}gusto%
110
111
     Septembro%
112
     \or
113
    Oktobro%
114
     \or
115
    Novembro%
116
     \or
     Decembro%
118
```

1.3 Main Esperanto Module (datetime2-esperanto.ldf)

Identify Module

\fi

119

120 }

\DTMesperantoMonthname

121 \ProvidesDateTimeModule{esperanto}[2015/03/30 v1.0]

```
those engines are used otherwise load esperanto-ascii.
                              123\ifxetex
                              124 \RequireDateTimeModule{esperanto-utf8}
                              125 \else
                              126 \ifluatex
                                    \RequireDateTimeModule{esperanto-utf8}
                              127
                                    \RequireDateTimeModule{esperanto-ascii}
                              129
                              130 \fi
                              131 \fi
                                 Define the esperanto style. The time style is the same as the default style
                              provided by datetime2. This may need correcting. For example, if a 12 hour style similar
                              to the englishampm (from the english-base module) is required.
                                  Allow the user a way of configuring the esperanto and esperanto-numeric
                              styles. This doesn't use the package wide separators such as \dtm@datetimesep in
                              case other date formats are also required.
 \DTMesperantodaymonthsep
                              The separator between the day and month for the text format.
                              132 \newcommand* { \DTMesperantodaymonthsep} {%
                              133 \DTMtexorpdfstring{\protect~}{\space}%
                              134 de%
                              135 \DTMtexorpdfstring{\protect~}{\space}%
                              136 }
                              The separator between the month and year for the text format.
\DTMesperantomonthyearsep
                              137 \newcommand*{\DTMesperantomonthyearsep}{,\space}
 \DTMesperantodatetimesep
                              The separator between the date and time blocks in the full format (either text or numeric).
                              138 \newcommand*{\DTMesperantodatetimesep}{\space}
 \DTMesperantotimezonesep
                              The separator between the time and zone blocks in the full format (either text or numeric).
                              139 \newcommand*{\DTMesperantotimezonesep}{\space}
                              The separator for the numeric date format.
     \DTMesperantodatesep
                              140 \newcommand*{\DTMesperantodatesep}{-}
     \DTMesperantotimesep
                              The separator for the numeric time format.
                              141 \newcommand*{\DTMesperantotimesep}{:}
                                 Provide keys that can be used in \DTMlangsetup to set these separators.
                              142 \DTMdefkey{esperanto}{daymonthsep}{\renewcommand*{\DTMesperantodaymonthsep}{#1}}
                              143 \DTMdefkey{esperanto}{monthyearsep}{\renewcommand*{\DTMesperantomonthyearsep}{\#1}}
                              144 \DTMdefkey{esperanto}{datetimesep}{\renewcommand*{\DTMesperantodatetimesep}{#1}}
                              145 \DTMdefkey{esperanto}{timezonesep}{\renewcommand*{\DTMesperantotimezonesep}{#1}}
                              146 \DTMdefkey{esperanto}{datesep}{\renewcommand*{\DTMesperantodatesep}{#1}}
                              147 \DTMdefkey{esperanto}{timesep}{\renewcommand*{\DTMesperantotimesep}{#1}}
```

XeTeX and LuaTeX natively support UTF-8, so load esperanto-utf8 if either of

Need to find out if XeTeX or LuaTeX are being used.

122 \RequirePackage{ifxetex,ifluatex}

```
TODO: provide a boolean key to switch between full and abbreviated formats if ap-
propriate. (I don't know how the date should be abbreviated.)
   Define a boolean key that determines if the time zone mappings should be used.
148 \DTMdefboolkey{esperanto}{mapzone}[true]{}
The default is to use mappings.
149 \DTMsetbool{esperanto}{mapzone}{true}
   Define a boolean key that determines if the day of month should be displayed.
150 \DTMdefboolkey{esperanto}{showdayofmonth}[true]{}
The default is to show the day of month.
Define a boolean key that determines if the year should be displayed.
152 \DTMdefboolkey{esperanto}{showyear}[true]{}
The default is to show the year.
153 \DTMsetbool{esperanto}{showyear}{true}
   Define the esperanto style. (TODO: implement day of week?)
154 \DTMnewstyle
   {esperanto}% label
155
   {% date style
156
      \renewcommand*\DTMdisplaydate[4]{%
157
158
        \DTMifbool{esperanto}{showdayofmonth}
        {\DTMesperantoordinal{##3}\DTMesperantodaymonthsep}%
159
        {}%
160
        \DTMesperantomonthname{##2}%
161
        \DTMifbool{esperanto}{showyear}%
162
        {%
163
          \DTMesperantomonthyearsep
164
          \number##1
165
        }%
166
        {}%
167
     }%
168
      \renewcommand*\DTMDisplaydate[4]{%
169
170
        \DTMifbool{esperanto}{showdayofmonth}
171
          \DTMesperantoordinal{##3}\DTMesperantodaymonthsep
172
          \DTMesperantomonthname{##2}%
173
        }%
174
        {%
175
          \DTMesperantoMonthname{##2}%
176
177
        \DTMifbool{esperanto}{showyear}%
178
179
          \DTMesperantomonthyearsep
180
          \number##1
181
        }%
182
183
        {}%
```

}%

184

```
185 }%
   {% time style (use default)
186
     \DTMsettimestyle{default}%
187
   }%
188
   {% zone style
189
190
     \DTMresetzones
191
     \DTMesperantozonemaps
      \renewcommand*{\DTMdisplayzone}[2]{%
192
        \DTMifbool{esperanto}{mapzone}%
193
        {\DTMusezonemapordefault{##1}{##2}}%
194
        {%
195
          \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
196
          \ifDTMshowzoneminutes\DTMesperantotimesep\DTMtwodigits{##2}\fi
197
       }%
198
     }%
199
   }%
200
   {% full style
201
     \renewcommand*{\DTMdisplay}[9]{%
202
203
       \ifDTMshowdate
204
        \DTMdisplaydate{##1}{##2}{##3}{##4}%
        \DTMesperantodatetimesep
205
206
       DTMdisplaytime{##5}{##6}{##7}%
207
       \ifDTMshowzone
208
        \DTMesperantotimezonesep
209
        \DTMdisplayzone{##8}{##9}%
210
211
     }%
212
      \renewcommand*{\DTMDisplay}[9]{%
213
       \ifDTMshowdate
214
        \DTMDisplaydate{##1}{##2}{##3}{##4}%
215
216
        \DTMesperantodatetimesep
217
       \DTMdisplaytime{##5}{##6}{##7}%
218
       \ifDTMshowzone
219
        \DTMesperantotimezonesep
220
        \DTMdisplayzone{##8}{##9}%
221
       \fi
222
223
     }%
   }%
224
   Define numeric style.
225 \DTMnewstyle
   {esperanto-numeric}% label
227
   {% date style
       \renewcommand*\DTMdisplaydate[4]{%
228
         \DTMifbool{esperanto}{showdayofmonth}%
229
         {%
230
           \number##3 % space intended
231
           \DTMesperantodatesep
232
```

```
}%
233
         {}%
234
         \number##2 % space intended
235
         \DTMifbool{esperanto}{showyear}%
236
         {%
237
238
           \DTMesperantodatesep
           \number##1 % space intended
239
         }%
240
         {}%
241
242
       \renewcommand*{\DTMDisplaydate}{\DTMdisplaydate}%
243
244
   }%
   {% time style
245
       \renewcommand*\DTMdisplaytime[3]{%
246
         \number##1
247
         \DTMesperantotimesep\DTMtwodigits{##2}%
248
         \ifDTMshowseconds\DTMesperantotimesep\DTMtwodigits{##3}\fi
249
       }%
250
   }%
251
252
   {% zone style
     \DTMresetzones
253
      \DTMesperantozonemaps
254
      \renewcommand*{\DTMdisplayzone}[2]{%
255
        \DTMifbool{esperanto}{mapzone}%
256
        {\DTMusezonemapordefault{##1}{##2}}%
257
258
        {%
          \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
259
          \ifDTMshowzoneminutes\DTMesperantotimesep\DTMtwodigits{##2}\fi
260
       }%
261
     }%
262
   }%
263
   {% full style
265
     \renewcommand*{\DTMdisplay}[9]{%
       \ifDTMshowdate
266
        \DTMdisplaydate{##1}{##2}{##3}{##4}%
267
        \DTMesperantodatetimesep
268
269
       \DTMdisplaytime{##5}{##6}{##7}%
270
271
       \ifDTMshowzone
        \DTMesperantotimezonesep
272
        \DTMdisplayzone{##8}{##9}%
273
274
275
      \renewcommand*{\DTMDisplay}{\DTMdisplay}%
276
277 }
```

\DTMesperantozonemaps

The time zone mappings are set through this command, which can be redefined if extra mappings are required or mappings need to be removed. No default mappings are provided at the moment.

278 \newcommand* {\DTMesperantozonemaps} {%

```
279 }
   Switch style according to the useregional setting.
280 \DTMifcaseregional
281 {}% do nothing
282 {\DTMsetstyle{esperanto}}
283 {\DTMsetstyle{esperanto-numeric}}
   Redefine \dateesperanto (or \date \dialect \) to prevent babel from resetting
\today. (For this to work, babel must already have been loaded if it's required.)
285 {%
286
    \ifundef\dateesperanto
    {% do nothing
287
288
    }%
289
290
      \def\dateesperanto{%
        \DTMifcaseregional
291
         {}% do nothing
292
         {\DTMsetstyle{esperanto}}%
293
         {\DTMsetstyle{esperanto-numeric}}%
294
      }%
296
    }%
297 }%
298 {%
    \csdef{date\CurrentTrackedDialect}{%
299
      \DTMifcaseregional
300
301
      {}% do nothing
      {\DTMsetstyle{esperanto}}%
302
      {\DTMsetstyle{esperanto-numeric}}
303
    }%
304
305 }%
```

Change History

1.0	
General: Initial release	 1, 3, 4

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