

Hungarian Module for datetime2 Package

Nicola L. C. Talbot (inactive)

2018-07-24 (v1.1)

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

Abstract

This is the Hungarian 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}` depending on the value of the `useregional` setting.

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

I don't know if these settings are correct as I can't speak Hungarian. In particular, I don't know if the `magyar` time style is correct. Currently this just uses the `default` time style. Please be aware that this may change. Whoever takes over maintenance 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-magyar.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{magyar-utf8}[2018/07/24 v1.1]
```

```

\DTMmagyarordinal
2 \newcommand*{\DTMmagyarordinal}[1]{%
3   \number#1.%
4 }

\DTMmagyaryear
5 \newcommand*{\DTMmagyaryear}[1]{%
6   \number#1.%
7 }

\DTMmagyarmonthname Hungarian month names.
8 \newcommand*{\DTMmagyarmonthname}[1]{%
9   \ifcase#1
10  \or
11  január%
12  \or
13  február%
14  \or
15  március%
16  \or
17  április%
18  \or
19  május%
20  \or
21  június%
22  \or
23  július%
24  \or
25  augusztus%
26  \or
27  szeptember%
28  \or
29  október%
30  \or
31  november%
32  \or
33  december%
34  \fi
35 }

\DTMmagyarMonthname As above but capitalize.
36 \newcommand*{\DTMmagyarMonthname}[1]{%
37   \ifcase#1
38   \or
39   Január%
40   \or
41   Február%
42   \or
43   Március%

```

```

44 \or
45 Április%
46 \or
47 Május%
48 \or
49 Június%
50 \or
51 Július%
52 \or
53 Augusztus%
54 \or
55 Szeptember%
56 \or
57 Október%
58 \or
59 November%
60 \or
61 December%
62 \fi
63 }

```

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 Xe \LaTeX nor Lua \LaTeX are used. Even if the user has loaded inputenc with utf8, this file should still be used not the `datetime2-magyar-utf8.ldf` file as the non-ASCII characters are made active in that situation and would need protecting against expansion. Identify module

```
64 \ProvidesDateTimeModule{magyar-ascii}[2018/07/24 v1.1]
```

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

`\DTMmagyarordinal`

```

65 \newcommand*{\DTMmagyarordinal}[1]{%
66 \number#1.%
67 }

```

`\DTMmagyaryear`

```

68 \newcommand*{\DTMmagyaryear}[1]{%
69 \number#1.%
70 }

```

`\DTMmagyarmonthname` Hungarian month names.

```

71 \newcommand*{\DTMmagyarmonthname}[1]{%
72 \ifcase#1
73 \or
74 janu\protect\'ar%

```

```

75 \or
76 febru\protect\'ar%
77 \or
78 m\protect\'arcius%
79 \or
80 \protect\'aprilis%
81 \or
82 m\protect\'ajus%
83 \or
84 j\protect\'unius%
85 \or
86 j\protect\'ulius%
87 \or
88 augusztus%
89 \or
90 szeptember%
91 \or
92 okt\protect\'ober%
93 \or
94 november%
95 \or
96 december%
97 \fi
98 }

```

\DTMmagyarMonthname As above but capitalize.

```

99 \newcommand*{\DTMmagyarMonthname}[1]{%
100 \ifcase#1
101 \or
102 Janu\protect\'ar%
103 \or
104 Febru\protect\'ar%
105 \or
106 M\protect\'arcius%
107 \or
108 \protect\'Aprilis%
109 \or
110 M\protect\'ajus%
111 \or
112 J\protect\'unius%
113 \or
114 J\protect\'ulius%
115 \or
116 Augusztus%
117 \or
118 Szeptember%
119 \or
120 Okt\protect\'ober%
121 \or
122 November%

```

```

123 \or
124   December%
125 \fi
126 }

```

1.3 Main Hungarian Module (`datetime2-magyar.1df`)

Identify Module

```
127 \ProvidesDateTimeModule{magyar}[2018/07/24 v1.1]
```

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

```
128 \RequirePackage{ifxetex,ifluatex}
```

XeTeX and LuaTeX natively support UTF-8, so load `magyar-utf8` if either of those engines are used otherwise load `magyar-ascii`.

```
129 \ifxetex
```

```
130   \RequireDateTimeModule{magyar-utf8}
```

```
131 \else
```

```
132   \ifluatex
```

```
133     \RequireDateTimeModule{magyar-utf8}
```

```
134   \else
```

```
135     \RequireDateTimeModule{magyar-ascii}
```

```
136   \fi
```

```
137 \fi
```

Define the `magyar` 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 `magyar` and `magyar-numeric` styles. This doesn't use the package wide separators such as `\dtm@datetimesep` in case other date formats are also required.

`\DTMmagyardaymonthsep` The separator between the day and month for the text format.

```

138 \newcommand*{\DTMmagyardaymonthsep}{%
139   \DTMtexorpdfstring{\protect-}{\space}%
140 }

```

`\DTMmagyarmonthyearsep` The separator between the month and year for the text format.

```
141 \newcommand*{\DTMmagyarmonthyearsep}{\space}
```

`\DTMmagyardatetimesep` The separator between the date and time blocks in the full format (either text or numeric).

```
142 \newcommand*{\DTMmagyardatetimesep}{\space}
```

`\DTMmagyartimezonesep` The separator between the time and zone blocks in the full format (either text or numeric).

```
143 \newcommand*{\DTMmagyartimezonesep}{\space}
```

`\DTMmagyardatesep` The separator for the numeric date format.

```
144 \newcommand*{\DTMmagyardatesep}{/}
```

`\DTMmagyartimesep` The separator for the numeric time format.

```
145 \newcommand*{\DTMmagyartimesep}{:}
```

Provide keys that can be used in `\DTMLangsetup` to set these separators.

```
146 \DTMdefkey{magyar}{daymonthsep}{\renewcommand*{\DTMmagyar daymonthsep}{#1}}
```

```
147 \DTMdefkey{magyar}{monthyearsep}{\renewcommand*{\DTMmagyar monthyearsep}{#1}}
```

```
148 \DTMdefkey{magyar}{datetimesep}{\renewcommand*{\DTMmagyar datetimesep}{#1}}
```

```
149 \DTMdefkey{magyar}{timezonesep}{\renewcommand*{\DTMmagyar timezonesep}{#1}}
```

```
150 \DTMdefkey{magyar}{datesep}{\renewcommand*{\DTMmagyar datesep}{#1}}
```

```
151 \DTMdefkey{magyar}{timesep}{\renewcommand*{\DTMmagyartimesep}{#1}}
```

TODO: provide a boolean key to switch between full and abbreviated formats if appropriate. (I don't know how the date should be abbreviated.)

Define a boolean key that determines if the time zone mappings should be used.

```
152 \DTMdefboolkey{magyar}{mapzone}[true]{}
```

The default is to use mappings.

```
153 \DTMsetbool{magyar}{mapzone}{true}
```

Define a boolean key that determines if the day of month should be displayed.

```
154 \DTMdefboolkey{magyar}{showdayofmonth}[true]{}
```

The default is to show the day of month.

```
155 \DTMsetbool{magyar}{showdayofmonth}{true}
```

Define a boolean key that determines if the year should be displayed.

```
156 \DTMdefboolkey{magyar}{showyear}[true]{}
```

The default is to show the year.

```
157 \DTMsetbool{magyar}{showyear}{true}
```

Define the magyar style. (TODO: implement day of week?)

```
158 \DTMnewstyle
```

```
159 {magyar}% label
```

```
160 {% date style
```

```
161   \renewcommand*{\DTMdisplaydate[4]}{%
```

```
162     \DTMifbool{magyar}{showdayofmonth}
```

```
163     {\DTMmagyarordinal{##3}\DTMmagyar daymonthsep}%
```

```
164     }%
```

```
165     \DTMmagyar monthname{##2}%
```

```
166     \DTMifbool{magyar}{showyear}%
```

```
167     {%
```

```
168       \DTMmagyar monthyearsep
```

```
169       \number##1
```

```
170     }%
```

```
171     }%
```

```
172   }%
```

```
173   \renewcommand*{\DTMdisplaydate[4]}{%
```

```
174     \DTMifbool{magyar}{showdayofmonth}
```

```
175     {%
```

```
176       \DTMmagyarordinal{##3}\DTMmagyar daymonthsep
```

```
177       \DTMmagyar monthname{##2}%
```

```

178 }%
179 {%
180   \DTMmagyarMonthname{##2}%
181 }%
182 \DTMifbool{magyar}{showyear}%
183 {%
184   \DTMmagyarmonthyearsep
185   \number##1
186 }%
187 }%
188 }%
189 }%
190 {% time style (use default)
191   \DTMsettimestyle{default}%
192 }%
193 {% zone style
194   \DTMresetzones
195   \DTMmagyarzonemaps
196   \renewcommand*{\DTMdisplayzone}[2]{%
197     \DTMifbool{magyar}{mapzone}%
198     {\DTMusezonemapordefault{##1}{##2}}%
199     {%
200       \ifnum##1<0\else\fi\DTMtwdigits{##1}%
201       \ifDTMshowzoneminutes\DTMmagyartimesep\DTMtwdigits{##2}\fi
202     }%
203   }%
204 }%
205 {% full style
206   \renewcommand*{\DTMdisplay}[9]{%
207     \ifDTMshowdate
208       \DTMdisplaydate{##1}{##2}{##3}{##4}%
209       \DTMmagyardatetimesep
210     \fi
211     \DTMdisplaytime{##5}{##6}{##7}%
212     \ifDTMshowzone
213       \DTMmagyartimezonesep
214       \DTMdisplayzone{##8}{##9}%
215     \fi
216   }%
217   \renewcommand*{\DTMDisplay}[9]{%
218     \ifDTMshowdate
219       \DTMDisplaydate{##1}{##2}{##3}{##4}%
220       \DTMmagyardatetimesep
221     \fi
222     \DTMdisplaytime{##5}{##6}{##7}%
223     \ifDTMshowzone
224       \DTMmagyartimezonesep
225       \DTMdisplayzone{##8}{##9}%
226     \fi
227   }%

```

```

228 }%
      Define numeric style.
229 \DTMnewstyle
230 {magyar-numeric}% label
231 {% date style
232   \renewcommand*\DTMdisplaydate[4]{%
233     \DTMifbool{magyar}{showdayofmonth}%
234     {%
235       \number##3 % space intended
236       \DTMmagyardatesep
237     }%
238   }%
239   \number##2 % space intended
240   \DTMifbool{magyar}{showyear}%
241   {%
242     \DTMmagyardatesep
243     \number##1 % space intended
244   }%
245 }%
246 }%
247 \renewcommand*\DTMdisplaydate{\DTMdisplaydate}%
248 }%
249 {% time style
250   \renewcommand*\DTMdisplaytime[3]{%
251     \number##1
252     \DTMmagyartimesep\DTMtwodigits{##2}%
253     \ifDTMshowseconds\DTMmagyartimesep\DTMtwodigits{##3}\fi
254   }%
255 }%
256 {% zone style
257   \DTMresetzones
258   \DTMmagyarzonemaps
259   \renewcommand*\DTMdisplayzone[2]{%
260     \DTMifbool{magyar}{mapzone}%
261     {\DTMusedzonemapordefault{##1}{##2}}%
262     {%
263       \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
264       \ifDTMshowzoneminutes\DTMmagyartimesep\DTMtwodigits{##2}\fi
265     }%
266   }%
267 }%
268 {% full style
269   \renewcommand*\DTMdisplay[9]{%
270     \ifDTMshowdate
271       \DTMdisplaydate{##1}{##2}{##3}{##4}%
272       \DTMmagyardatetimesep
273     \fi
274     \DTMdisplaytime{##5}{##6}{##7}%
275     \ifDTMshowzone

```



```

276     \DTMmagyartimezonesep
277     \DTMdisplayzone{##8}{##9}%
278     \fi
279     }%
280     \renewcommand*{\DTMDisplay}{\DTMdisplay}%
281 }

```

`\DTMmagyarzonemaps` The time zone mappings are set through this command, which can be redefined if extra mappings are required or mappings need to be removed. There are currently no mappings defined.

```

282 \newcommand*{\DTMmagyarzonemaps}{%
283 }

```

Switch style according to the `userregional` setting.

```

284 \DTMifcaseregional
285 {}% do nothing
286 {\DTMsetstyle{magyar}}
287 {\DTMsetstyle{magyar-numeric}}

```

Redefine `\datemagyar` (or `\date(dialect)`) to prevent babel from resetting `\today`. (For this to work, babel must already have been loaded if it's required.)

```

288 \ifcsundef{date\CurrentTrackedDialect}
289 {%
290   \ifundef\datemagyar
291   {}% do nothing
292   }%
293   {%
294     \def\datemagyar{%
295       \DTMifcaseregional
296       {}% do nothing
297       {\DTMsetstyle{magyar}}%
298       {\DTMsetstyle{magyar-numeric}}%
299     }%
300   }%
301 }%
302 {%
303   \csdef{date\CurrentTrackedDialect}{%
304     \DTMifcaseregional
305     {}% do nothing
306     {\DTMsetstyle{magyar}}%
307     {\DTMsetstyle{magyar-numeric}}%
308   }%
309 }%

```

Change History

1.0		1.1	
General: Initial release	1, 3, 5	General: removed spurious space	9

Index

D			
\DTMmagyardatesep	5	\DTMmagyarordinal	2, 3
\DTMmagyardatetimesep	5	\DTMmagyartimesep	6
\DTMmagyardaymonthsep	5	\DTMmagyartimezonesep	5
\DTMmagyarMonthname	2, 4	\DTMmagyaryear	2, 3
\DTMmagyarmonthname	2, 3	\DTMmagyarzonemaps	9
\DTMmagyarmonthyearsep	5	U	
		useregional	1, 9