

Slovak 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 maintenance, contact me at <http://www.dickimaw-books.com/contact.html>

Abstract

This is the Slovak 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-slovak's \today`.

I don't know if these settings are correct as I can't speak Slovak. In particular, I don't know if the `slovak` 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 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-slovak.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{slovak-utf8}[2015/04/01 v1.0]
```

\DTMslovakordinal

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

\DTMslovakmonthname Slovak month names.

```
5 \newcommand*{\DTMslovakmonthname}[1]{%
6   \ifcase#1
7   \or
8   januára%
9   \or
10  februára%
11  \or
12  marca%
13  \or
14  apríla%
15  \or
16  mája%
17  \or
18  júna%
19  \or
20  júla%
21  \or
22  augusta%
23  \or
24  septembra%
25  \or
26  októbra%
27  \or
28  novembra%
29  \or
30  decembra%
31  \fi
32 }
```

\DTMslovakMonthname As above but capitalize.

```
33 \newcommand*{\DTMslovakMonthname}[1]{%
34   \ifcase#1
35   \or
36   Januára%
37   \or
38   Februára%
39   \or
40   Marca%
41   \or
42   Apríla%
43   \or
44   Mája%
45   \or
```

```

46  Júna%
47  \or
48  Júla%
49  \or
50  Augusta%
51  \or
52  Septembra%
53  \or
54  Októbra%
55  \or
56  Novembra%
57  \or
58  Decembra%
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-slovak-utf8.ldf` file as the non-ASCII characters are made active in that situation and would need protecting against expansion. Identify module

```
61 \ProvidesDateTimeModule{slovak-ascii}[2015/04/01 v1.0]
```

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

`\DTMslovakordinal`

```

62 \newcommand*{\DTMslovakordinal}[1]{%
63   \number#1.%
64 }

```

`\DTMslovakmonthname` Slovak month names.

```

65 \newcommand*{\DTMslovakmonthname}[1]{%
66   \ifcase#1
67   \or
68   janu\protect\'ara%
69   \or
70   febru\protect\'ara%
71   \or
72   marca%
73   \or
74   apr\protect'\{\protect\i}la%
75   \or
76   m\protect\'aja%
77   \or
78   j\protect\'una%

```

```

79 \or
80 j\protect\'ula%
81 \or
82 augusta%
83 \or
84 septembra%
85 \or
86 okt\protect\'obra%
87 \or
88 novembra%
89 \or
90 decembra%
91 \fi
92 }

```

`\DTMslovakMonthname` As above but capitalize.

```

93 \newcommand*{\DTMslovakMonthname}[1]{%
94 \ifcase#1
95 \or
96 Janu\protect\'ara%
97 \or
98 Febru\protect\'ara%
99 \or
100 Marca%
101 \or
102 Apr\protect\'{\protect\i}la%
103 \or
104 M\protect\'aja%
105 \or
106 J\protect\'una%
107 \or
108 J\protect\'ula%
109 \or
110 Augusta%
111 \or
112 Septembra%
113 \or
114 Okt\protect\'obra%
115 \or
116 Novembra%
117 \or
118 Decembra%
119 \fi
120 }

```

1.3 Main Slovak Module (datetime2-slovak.ldf)

Identify Module

```
121 \ProvidesDateTimeModule{slovak}[2015/04/01 v1.0]
```

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

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

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

```
123 \ifxetex
```

```
124 \RequireDateTimeModule{slovak-utf8}
```

```
125 \else
```

```
126 \ifluatex
```

```
127 \RequireDateTimeModule{slovak-utf8}
```

```
128 \else
```

```
129 \RequireDateTimeModule{slovak-ascii}
```

```
130 \fi
```

```
131 \fi
```

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

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

```
132 \newcommand*{\DTMslovakdaymonthsep}{%
```

```
133 \DTMtexorpdfstring{\protect~}{\space}}
```

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

```
134 \newcommand*{\DTMslovakmonthyearsep}{\space}
```

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

```
135 \newcommand*{\DTMslovakdatetimesep}{\space}
```

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

```
136 \newcommand*{\DTMslovaktimezonesep}{\space}
```

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

```
137 \newcommand*{\DTMslovakdatesep}{.}
```

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

```
138 \newcommand*{\DTMslovaktimesep}{:}
```

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

```
139 \DTMdefkey{slovak}{daymonthsep}{\renewcommand*{\DTMslovakdaymonthsep}{#1}}
```

```
140 \DTMdefkey{slovak}{monthyearsep}{\renewcommand*{\DTMslovakmonthyearsep}{#1}}
```

```
141 \DTMdefkey{slovak}{datetimesep}{\renewcommand*{\DTMslovakdatetimesep}{#1}}
```

```
142 \DTMdefkey{slovak}{timezonesep}{\renewcommand*{\DTMslovaktimezonesep}{#1}}
```

```
143 \DTMdefkey{slovak}{datesep}{\renewcommand*{\DTMslovakdatesep}{#1}}
```

```
144 \DTMdefkey{slovak}{timesep}{\renewcommand*{\DTMslovaktimesep}{#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.

```
145 \DTMdefboolkey{slovak}{mapzone}[true]{}
```

The default is to use mappings.

```
146 \DTMsetbool{slovak}{mapzone}{true}
```

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

```
147 \DTMdefboolkey{slovak}{showdayofmonth}[true]{}
```

The default is to show the day of month.

```
148 \DTMsetbool{slovak}{showdayofmonth}{true}
```

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

```
149 \DTMdefboolkey{slovak}{showyear}[true]{}
```

The default is to show the year.

```
150 \DTMsetbool{slovak}{showyear}{true}
```

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

```
151 \DTMnewstyle
```

```
152 {slovak}% label
```

```
153 {% date style
```

```
154   \renewcommand*\DTMdisplaydate[4]{%
```

```
155     \DTMifbool{slovak}{showdayofmonth}
```

```
156     {%
```

```
157       \DTMslovakordinal{##3}%
```

```
158       \DTMslovakdaymonthsep
```

```
159     }%
```

```
160     }%}
```

```
161     \DTMslovakmonthname{##2}%
```

```
162     \DTMifbool{slovak}{showyear}%
```

```
163     {%
```

```
164       \DTMslovakmonthyearsep
```

```
165       \number##1
```

```
166     }%
```

```
167     }%}
```

```
168 }%
```

```
169 \renewcommand*\DTMdisplaydate[4]{%
```

```
170   \DTMifbool{slovak}{showdayofmonth}
```

```
171   {%
```

```
172     \DTMslovakordinal{##3}%
```

```
173     \DTMslovakdaymonthsep
```

```
174     \DTMslovakmonthname{##2}%
```

```
175   }%
```

```
176   }%
```

```
177     \DTMslovakMonthname{##2}%
```

```
178   }%
```

```
179   \DTMifbool{slovak}{showyear}%
```

```
180   {%
```

```
181     \DTMslovakmonthyearsep
```

```

182     \number##1
183   }%
184   {}%
185 }%
186 }%
187 {% time style (use default)
188   \DTMsettimestyle{default}%
189 }%
190 {% zone style
191   \DTMresetzones
192   \DTMslovakzonemaps
193   \renewcommand*{\DTMdisplayzone}[2]{%
194     \DTMifbool{slovak}{mapzone}%
195     {\DTMusezonemapordefault{##1}{##2}}%
196     {%
197       \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
198       \ifDTMshowzoneminutes\DTMslovaktimesep\DTMtwodigits{##2}\fi
199     }%
200   }%
201 }%
202 {% full style
203   \renewcommand*{\DTMdisplay}[9]{%
204     \ifDTMshowdate
205       \DTMdisplaydate{##1}{##2}{##3}{##4}%
206       \DTMslovakdatetimesep
207       \fi
208       \DTMdisplaytime{##5}{##6}{##7}%
209       \ifDTMshowzone
210         \DTMslovaktimesep
211         \DTMdisplayzone{##8}{##9}%
212       \fi
213     }%
214   \renewcommand*{\DTMdisplay}[9]{%
215     \ifDTMshowdate
216       \DTMdisplaydate{##1}{##2}{##3}{##4}%
217       \DTMslovakdatetimesep
218       \fi
219       \DTMdisplaytime{##5}{##6}{##7}%
220       \ifDTMshowzone
221         \DTMslovaktimesep
222         \DTMdisplayzone{##8}{##9}%
223       \fi
224     }%
225 }%
    Define numeric style.
226 \DTMnewstyle
227 {slovak-numeric}% label
228 {% date style
229   \renewcommand*{\DTMdisplaydate}[4]{%

```

```

230     \DTMifbool{slovak}{showdayofmonth}%
231     {%
232         \number##3 % space intended
233         \DTMslovakdatesep
234     }%
235     {%
236         \number##2 % space intended
237         \DTMifbool{slovak}{showyear}%
238         {%
239             \DTMslovakdatesep
240             \number##1 % space intended
241         }%
242     }%
243 }%
244 \renewcommand*\DTMdisplaydate{\DTMdisplaydate}%
245 }%
246 {% time style
247     \renewcommand*\DTMdisplaytime[3]{%
248         \number##1
249         \DTMslovaktimesep\DTMtwodigits{##2}%
250         \ifDTMshowseconds\DTMslovaktimesep\DTMtwodigits{##3}\fi
251     }%
252 }%
253 {% zone style
254     \DTMresetzones
255     \DTMslovakzonemaps
256     \renewcommand*\DTMdisplayzone[2]{%
257         \DTMifbool{slovak}{mapzone}%
258         {\DTMusedzonemapordefault{##1}{##2}}%
259         {%
260             \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
261             \ifDTMshowzoneminutes\DTMslovaktimesep\DTMtwodigits{##2}\fi
262         }%
263     }%
264 }%
265 {% full style
266     \renewcommand*\DTMdisplay[9]{%
267         \ifDTMshowdate
268             \DTMdisplaydate{##1}{##2}{##3}{##4}%
269             \DTMslovakdatetimesep
270         \fi
271         \DTMdisplaytime{##5}{##6}{##7}%
272         \ifDTMshowzone
273             \DTMslovaktimezonesep
274             \DTMdisplayzone{##8}{##9}%
275         \fi
276     }%
277     \renewcommand*\DTMdisplay{\DTMdisplay}%
278 }

```


`\DTMslovakzonemaps` The time zone mappings are set through this command, which can be redefined if extra mappings are required or mappings need to be removed.

```
279 \newcommand*{\DTMslovakzonemaps}{%
280   \DTMdefzonemap{01}{00}{CET}%
281   \DTMdefzonemap{02}{00}{CEST}%
282 }
```

Switch style according to the `userregional` setting.

```
283 \DTMifcaseregional
284 {}% do nothing
285 {\DTMsetstyle{slovak}}
286 {\DTMsetstyle{slovak-numeric}}
```

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

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

Change History

1.0
General: Initial release 1, 3, 4

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