

Northern Sami 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 Northern Sami 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` `userregional` 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 `userregional` setting.

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

I don't know if these settings are correct as I can't speak Northern Sami. In particular, I don't know if the `samin` 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-samin.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{samin-utf8}[2018/12/07 v1.1]
```

`\DTMsaminordinal`

```
2 \newcommand*{\DTMsaminordinal}[1]{%  
3   \number#1.\DTMtexorpdfstring{\protect~}{\space}b.%  
4 }
```

`\DTMsaminmonthname` Northern Sami month names.

```
5 \newcommand*{\DTMsaminmonthname}[1]{%  
6   \ifcase#1  
7   \or  
8   oddajagemánu%  
9   \or  
10  guovvamánu%  
11  \or  
12  njukčamánu%  
13  \or  
14  cuoŋománu%  
15  \or  
16  miessemánu%  
17  \or  
18  geassemánu%  
19  \or  
20  suoidnemánu%  
21  \or  
22  borgemánu%  
23  \or  
24  čakčamánu%  
25  \or  
26  golggotmánu%  
27  \or  
28  skábmamánu%  
29  \or  
30  juovlamánu%  
31  \fi  
32 }
```

`\DTMsaminMonthname` As above but capitalize.

```
33 \newcommand*{\DTMsaminMonthname}[1]{%  
34   \ifcase#1  
35   \or  
36   Oddajagemánu%  
37   \or  
38   Guovvamánu%  
39   \or  
40   Njukčamánu%  
41   \or  
42   Cuoŋománu%  
43   \or  
44   Miessemánu%  
45   \or
```

```

46 Geassemánu%
47 \or
48 Suoidnemánu%
49 \or
50 Borgemánu%
51 \or
52 Čakčamánu%
53 \or
54 Golggotmánu%
55 \or
56 Skábmamánu%
57 \or
58 Juovlamánu%
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-samin-utf8.1df` file as the non-ASCII characters are made active in that situation and would need protecting against expansion. Identify module

```
61 \ProvidesDateTimeModule{samin-ascii}[2018/12/07 v1.1]
```

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

`\DTMsaminordinal`

```

62 \newcommand*{\DTMsaminordinal}[1]{%
63   \number#1.\DTMtexorpdfstring{\protect~}{\space}b.%
64 }

```

`\DTMsaminmonthname` Northern Sami month names.

```

65 \newcommand*{\DTMsaminmonthname}[1]{%
66   \ifcase#1
67   \or
68   o\protect\dj\protect\dj ajagem\protect\'anu%
69   \or
70   guovvam\protect\'anu%
71   \or
72   njuk\protect\v cam\protect\'anu%
73   \or
74   cuo\protect\ng om\protect\'anu%
75   \or
76   miessem\protect\'anu%
77   \or
78   geassem\protect\'anu%

```

```

79 \or
80 suoidnem\protect\'anu%
81 \or
82 borgem\protect\'anu%
83 \or
84 \protect\v cak\protect\v cam\protect\'anu%
85 \or
86 golggotm\protect\'anu%
87 \or
88 sk\protect\'abmam\protect\'anu%
89 \or
90 juovlam\protect\'anu%
91 \fi
92 }

```

\DTMsaminMonthname As above but capitalize.

```

93 \newcommand*{\DTMsaminMonthname}[1]{%
94 \ifcase#1
95 \or
96 0\protect\dj\protect\dj ajagem\protect\'anu%
97 \or
98 Guovvam\protect\'anu%
99 \or
100 Njuk\protect\v cam\protect\'anu%
101 \or
102 Cuo\protect\ng om\protect\'anu%
103 \or
104 Miessem\protect\'anu%
105 \or
106 Geassem\protect\'anu%
107 \or
108 Suoidnem\protect\'anu%
109 \or
110 Borgem\protect\'anu%
111 \or
112 \protect\v Cak\protect\v cam\protect\'anu%
113 \or
114 Golggotm\protect\'anu%
115 \or
116 Sk\protect\'abmam\protect\'anu%
117 \or
118 Juovlam\protect\'anu%
119 \fi
120 }

```

1.3 Main Northern Sami Module (datetime2-samin.ldf)

Identify Module

```
121 \ProvidesDateTimeModule{samin}[2018/12/07 v1.1]
```

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

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

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

```
123 \ifxetex
```

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

```
125 \else
```

```
126 \ifluatex
```

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

```
128 \else
```

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

```
130 \fi
```

```
131 \fi
```

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

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

```
132 \newcommand*{\DTMsaminmonthdaysep}{\space}
```

`\DTMsamindayyearsep` The separator between the day and year for the text format.

```
133 \newcommand*{\DTMsamindayyearsep}{\space}
```

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

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

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

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

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

```
136 \newcommand*{\DTMsamindatesep}{.}
```

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

```
137 \newcommand*{\DTMsamintimesep}{:}
```

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

```
138 \DTMdefkey{samin}{monthdaysep}{\renewcommand*{\DTMsaminmonthdaysep}{#1}}
```

```
139 \DTMdefkey{samin}{dayyearsep}{\renewcommand*{\DTMsamindayyearsep}{#1}}
```

```
140 \DTMdefkey{samin}{datetimesep}{\renewcommand*{\DTMsamindatetimesep}{#1}}
```

```
141 \DTMdefkey{samin}{timezonesep}{\renewcommand*{\DTMsamintimezonesep}{#1}}
```

```
142 \DTMdefkey{samin}{datesep}{\renewcommand*{\DTMsamindatesep}{#1}}
```

```
143 \DTMdefkey{samin}{timesep}{\renewcommand*{\DTMsamintimesep}{#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.

```
144 \DTMdefboolkey{samin}{mapzone}[true]{}
```

The default is to use mappings.

```
145 \DTMsetbool{samin}{mapzone}{true}
```

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

```
146 \DTMdefboolkey{samin}{showdayofmonth}[true]{}
```

The default is to show the day of month.

```
147 \DTMsetbool{samin}{showdayofmonth}{true}
```

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

```
148 \DTMdefboolkey{samin}{showyear}[true]{}
```

The default is to show the year.

```
149 \DTMsetbool{samin}{showyear}{true}
```

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

```
150 \DTMnewstyle
```

```
151 {samin}% label
```

```
152 {% date style
```

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

```
154     \DTMsaminmonthname{##2}%
```

```
155     \DTMifbool{samin}{showdayofmonth}
```

```
156     {%
```

```
157       \DTMsaminmonthdaysep
```

```
158       \DTMsaminordinal{##3}%
```

```
159     }%
```

```
160     }%
```

```
161     \DTMifbool{samin}{showyear}%
```

```
162     {%
```

```
163       \DTMsamindayyearsep
```

```
164       \number##1
```

```
165     }%
```

```
166     }%
```

```
167   }%
```

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

```
169     \DTMsaminMonthname{##2}%
```

```
170     \DTMifbool{samin}{showdayofmonth}
```

```
171     {%
```

```
172       \DTMsaminmonthdaysep
```

```
173       \DTMsaminordinal{##3}%
```

```
174     }%
```

```
175     }%
```

```
176     \DTMifbool{samin}{showyear}%
```

```
177     {%
```

```
178       \DTMsamindayyearsep
```

```
179       \number##1
```

```
180     }%
```

```

181     {}%
182   }%
183 }%
184 {% time style (use default)
185   \DTMsettimestyle{default}%
186 }%
187 {% zone style
188   \DTMresetzones
189   \DTMsaminzonemaps
190   \renewcommand*{\DTMdisplayzone}[2]{%
191     \DTMifbool{samin}{mapzone}%
192     {\DTMusezonemapordefault{##1}{##2}}%
193     {%
194       \ifnum##1<0 \else+\fi\DTMtwodigits{##1}%
195       \ifDTMshowzoneminutes\DTMsamintimesep\DTMtwodigits{##2}\fi
196     }%
197   }%
198 }%
199 {% full style
200   \renewcommand*{\DTMdisplay}[9]{%
201     \ifDTMshowdate
202       \DTMdisplaydate{##1}{##2}{##3}{##4}%
203       \DTMsamindatetimesep
204       \fi
205       \DTMdisplaytime{##5}{##6}{##7}%
206       \ifDTMshowzone
207         \DTMsamintimezonesep
208         \DTMdisplayzone{##8}{##9}%
209       \fi
210     }%
211   \renewcommand*{\DTMdisplay}[9]{%
212     \ifDTMshowdate
213       \DTMdisplaydate{##1}{##2}{##3}{##4}%
214       \DTMsamindatetimesep
215       \fi
216       \DTMdisplaytime{##5}{##6}{##7}%
217       \ifDTMshowzone
218         \DTMsamintimezonesep
219         \DTMdisplayzone{##8}{##9}%
220       \fi
221     }%
222 }%

```

Define numeric style.

```

223 \DTMnewstyle
224 {samin-numeric}% label
225 {% date style
226   \renewcommand*{\DTMdisplaydate}[4]{%
227     \DTMifbool{samin}{showdayofmonth}%

```

```

228     {%
229         \number##3 % space intended
230         \DTMsamindatesep
231     }%
232     {%
233         \number##2 % space intended
234         \DTMifbool{samin}{showyear}%
235     {%
236         \DTMsamindatesep
237         \number##1 % space intended
238     }%
239     }%
240 }%
241 \renewcommand*\DTMDisplaydate{\DTMdisplaydate}%
242 }%
243 {% time style
244 \renewcommand*\DTMdisplaytime[3]{%
245     \number##1
246     \DTMsamintimesep\DTMtwodigits{##2}%
247     \ifDTMshowseconds\DTMsamintimesep\DTMtwodigits{##3}\fi
248 }%
249 }%
250 {% zone style
251 \DTMresetzones
252 \DTMsaminzonemaps
253 \renewcommand*\DTMdisplayzone[2]{%
254     \DTMifbool{samin}{mapzone}%
255     {\DTMusedzonemapordefault{##1}{##2}}%
256     {%
257         \ifnum##1<0 \else+\fi\DTMtwodigits{##1}%
258         \ifDTMshowzoneminutes\DTMsamintimesep\DTMtwodigits{##2}\fi
259     }%
260 }%
261 }%
262 {% full style
263 \renewcommand*\DTMdisplay[9]{%
264     \ifDTMshowdate
265         \DTMdisplaydate{##1}{##2}{##3}{##4}%
266         \DTMsamindatetimesep
267     \fi
268     \DTMdisplaytime{##5}{##6}{##7}%
269     \ifDTMshowzone
270         \DTMsamintimezonesep
271         \DTMdisplayzone{##8}{##9}%
272     \fi
273 }%
274 \renewcommand*\DTMDisplay{\DTMdisplay}%
275 }

```

`\DTMsaminzonemaps` The time zone mappings are set through this command, which can be redefined if extra

mappings are required or mappings need to be removed. Daylight saving isn't taken into account.

```
276 \newcommand*{\DTMsaminzonemaps}{%
277   \DTMdefzonemap{01}{00}{CET}%
278   \DTMdefzonemap{02}{00}{EET}%
279 }
```

Switch style according to the `useregional` setting.

```
280 \DTMifcaseregional
281 {}% do nothing
282 {\DTMsetstyle{samin}}
283 {\DTMsetstyle{samin-numeric}}
```

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

```
284 \ifcsundef{date\CurrentTrackedDialect}
285 {%
286   \ifundef\datesamin
287   {% do nothing
288   }%
289   {%
290     \def\datesamin{%
291       \DTMifcaseregional
292       {}% do nothing
293       {\DTMsetstyle{samin}}%
294       {\DTMsetstyle{samin-numeric}}%
295     }%
296   }%
297 }%
298 {%
299   \csdef{date\CurrentTrackedDialect}{%
300     \DTMifcaseregional
301     {}% do nothing
302     {\DTMsetstyle{samin}}%
303     {\DTMsetstyle{samin-numeric}}%
304   }%
305 }%
```

Change History

1.0	1.1
General: Initial release 1, 3, 4	General: added space before <code>\else</code> . 7, 8 removed spurious space 9

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