

Lower Sorbian 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 Lower Sorbian 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-lsorbian's \today`.

I don't know if these settings are correct as I can't speak Lower Sorbian. In particular, I don't know if the `lsorbian` 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-lsorbian.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{lsorbian-utf8}[2018/05/18 v1.1]
```

`\DTMlsorbianordinal`

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

`\DTMlsorbiannewmonthname` Lower Sorbian month names.

```
5 \newcommand*{\DTMlsorbiannewmonthname}[1]{%  
6   \ifcase#1  
7   \or  
8   januara%  
9   \or  
10  februara%  
11  \or  
12  mērc̣a%  
13  \or  
14  apryla%  
15  \or  
16  maja%  
17  \or  
18  junija%  
19  \or  
20  julija%  
21  \or  
22  awgusta%  
23  \or  
24  septembra%  
25  \or  
26  oktobra%  
27  \or  
28  nowembra%  
29  \or  
30  decembra%  
31  \fi  
32 }
```

`\DTMlsorbiannewMonthname` As above but capitalize.

```
33 \newcommand*{\DTMlsorbiannewMonthname}[1]{%  
34   \ifcase#1  
35   \or  
36   Januara%  
37   \or  
38   Februara%  
39   \or  
40   Mērc̣a%  
41   \or  
42   Apryla%  
43   \or  
44   Maja%  
45   \or
```

```

46 Junija%
47 \or
48 Julija%
49 \or
50 Awgusta%
51 \or
52 Septembra%
53 \or
54 Oktobra%
55 \or
56 Nowembra%
57 \or
58 Decembra%
59 \fi
60 }

```

`\DTMlsorbianoldmonthname` Lower Sorbian (old) month names.

```

61 \newcommand*{\DTMlsorbianoldmonthname}[1]{%
62 \ifcase#1
63 \or
64 wjelikego rožka%
65 \or
66 małego rožka%
67 \or
68 nalětnika%
69 \or
70 jatšownika%
71 \or
72 rožownika%
73 \or
74 smažnika%
75 \or
76 pražnika%
77 \or
78 žnjeńca%
79 \or
80 požnjeńca%
81 \or
82 winowca%
83 \or
84 nazymnika%
85 \or
86 godownika%
87 \fi
88 }

```

`\DTMlsorbianoldMonthname` As above but capitalize.

```

89 \newcommand*{\DTMlsorbianoldMonthname}[1]{%
90 \ifcase#1
91 \or

```

```

92 Wjelikego rožka%
93 \or
94 Małego rožka%
95 \or
96 Nalětnika%
97 \or
98 Jatšownika%
99 \or
100 Rožownika%
101 \or
102 Smažnika%
103 \or
104 Pražnika%
105 \or
106 Žnjeńca%
107 \or
108 Požnjeńca%
109 \or
110 Winowca%
111 \or
112 Nazymnika%
113 \or
114 Godownika%
115 \fi
116 }

```

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-lsorbian-utf8.1df` file as the non-ASCII characters are made active in that situation and would need protecting against expansion. Identify module

```
117 \ProvidesDateTimeModule{lsorbian-ascii}[2018/05/18 v1.1]
```

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

`\DTMlsorbianordinal`

```

118 \newcommand*{\DTMlsorbianordinal}[1]{%
119   \number#1.%
120 }

```

`\DTMlsorbiannewmonthname`

Lower Sorbian month names.

```

121 \newcommand*{\DTMlsorbiannewmonthname}[1]{%
122   \ifcase#1
123   \or
124   januar%

```

```

125 \or
126 februara%
127 \or
128 m\protect\v erca%
129 \or
130 apryla%
131 \or
132 maja%
133 \or
134 junija%
135 \or
136 julija%
137 \or
138 awgusta%
139 \or
140 septembra%
141 \or
142 oktobra%
143 \or
144 nowembra%
145 \or
146 decembra%
147 \fi
148 }

```

\DTMlsorbiannewMonthname As above but capitalize.

```

149 \newcommand*{\DTMlsorbiannewMonthname}[1]{%
150 \ifcase#1
151 \or
152 Januara%
153 \or
154 Februara%
155 \or
156 M\protect\v erca%
157 \or
158 Apryla%
159 \or
160 Maja%
161 \or
162 Junija%
163 \or
164 Julija%
165 \or
166 Awgusta%
167 \or
168 Septembra%
169 \or
170 Oktobra%
171 \or
172 Nowembra%

```

```
173 \or
174 Decembra%
175 \fi
176 }
```

```
\DTMlsorbianoldmonthname Lower Sorbian (old) month names.
177 \newcommand*{\DTMlsorbianoldmonthname}[1]{%
178 \ifcase#1
179 \or
180 wjelikego ro\protect\v zka%
181 \or
182 ma\protect\l ego ro\protect\v zka%
183 \or
184 nal\protect\v etnika%
185 \or
186 jat\protect\v sownika%
187 \or
188 ro\protect\v zownika%
189 \or
190 sma\protect\v znika%
191 \or
192 pra\protect\v znika%
193 \or
194 \protect\v znje\protect\'nca%
195 \or
196 po\protect\v znje\protec\'nca%
197 \or
198 winowca%
199 \or
200 nazymnika%
201 \or
202 godownika%
203 \fi
204 }
```

```
\DTMlsorbianoldMonthname As above but capitalize.
205 \newcommand*{\DTMlsorbianoldMonthname}[1]{%
206 \ifcase#1
207 \or
208 Wjelikego ro\protect\v zka%
209 \or
210 Ma\protect\l ego ro\protect\v zka%
211 \or
212 Na\protect\v etnika%
213 \or
214 Ja\protect\v sownika%
215 \or
216 Ro\protect\v zownika%
217 \or
218 Sma\protect\v znika%
```

```

219 \or
220 Pra\protect\v znika%
221 \or
222 \protect\v Znje\protect\'nca%
223 \or
224 Po\protect\v znje\protec\'nca%
225 \or
226 Winowca%
227 \or
228 Nazymnika%
229 \or
230 Godownika%
231 \fi
232 }

```

1.3 Main Lower Sorbian Module (`datetime2-lsorbian.1df`)

Identify Module

```
233 \ProvidesDateTimeModule{lsorbian}[2018/05/18 v1.1]
```

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

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

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

```
235 \ifxetex
```

```
236 \RequireDateTimeModule{lsorbian-utf8}
```

```
237 \else
```

```
238 \ifluatex
```

```
239 \RequireDateTimeModule{lsorbian-utf8}
```

```
240 \else
```

```
241 \RequireDateTimeModule{lsorbian-ascii}
```

```
242 \fi
```

```
243 \fi
```

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

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

```
244 \newcommand*{\DTMlsorbiandaymonthsep}{%
```

```
245 \DTMtexorpdfstring{\protect-}{\space}}%
```

```
246 }
```

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

```
247 \newcommand*{\DTMlsorbianmonthyearsep}{\space}
```

`\DTMlsorbiandatetimesep` The separator between the date and time blocks in the full format (either text or numeric).
248 `\newcommand*{\DTMlsorbiandatetimesep}{\space}`

`\DTMlsorbiantimezonesep` The separator between the time and zone blocks in the full format (either text or numeric).
249 `\newcommand*{\DTMlsorbiantimezonesep}{\space}`

`\DTMlsorbiandatesep` The separator for the numeric date format.
250 `\newcommand*{\DTMlsorbiandatesep}{/}`

`\DTMlsorbiantimesep` The separator for the numeric time format.
251 `\newcommand*{\DTMlsorbiantimesep}{:}`

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

252 `\DTMdefkey{lsorbian}{daymonthsep}{\renewcommand*{\DTMlsorbiandaymonthsep}{#1}}`
253 `\DTMdefkey{lsorbian}{monthyearsep}{\renewcommand*{\DTMlsorbianmonthyearsep}{#1}}`
254 `\DTMdefkey{lsorbian}{datetimesep}{\renewcommand*{\DTMlsorbiandatetimesep}{#1}}`
255 `\DTMdefkey{lsorbian}{timezonesep}{\renewcommand*{\DTMlsorbiantimezonesep}{#1}}`
256 `\DTMdefkey{lsorbian}{datesep}{\renewcommand*{\DTMlsorbiandatesep}{#1}}`
257 `\DTMdefkey{lsorbian}{timesep}{\renewcommand*{\DTMlsorbiantimesep}{#1}}`

`\DTMlsorbianmonthname` Provide a way to switch between old and new month names
258 `\newcommand*\DTMlsorbianmonthname{\DTMlsorbiannewmonthname}`

`\DTMlsorbianMonthname` Provide a way to switch between old and new month names
259 `\newcommand*\DTMlsorbianMonthname{\DTMlsorbiannewMonthname}`

Define a key to easily switch:

260 `\DTMdefchoicekey{lsorbian}{style}[\val\nr]{old,new}{%`
261 `\ifcase\nr\relax`
262 `\renewcommand*\DTMlsorbianmonthname{\DTMlsorbianoldmonthname}%`
263 `\renewcommand*\DTMlsorbianMonthname{\DTMlsorbianoldMonthname}%`
264 `\or`
265 `\renewcommand*\DTMlsorbianmonthname{\DTMlsorbiannewmonthname}%`
266 `\renewcommand*\DTMlsorbianMonthname{\DTMlsorbiannewMonthname}%`
267 `\fi`
268 `}`

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.

269 `\DTMdefboolkey{lsorbian}{mapzone}[true]{}%`

The default is to use mappings.

270 `\DTMsetbool{lsorbian}{mapzone}{true}`

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

271 `\DTMdefboolkey{lsorbian}{showdayofmonth}[true]{}%`

The default is to show the day of month.

272 `\DTMsetbool{lsorbian}{showdayofmonth}{true}`

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

```

273 \DTMdefboolkey{lsorbian}{showyear}[true]{}

```

The default is to show the year.

```

274 \DTMsetbool{lsorbian}{showyear}{true}

```

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

```

275 \DTMnewstyle
276 {lsorbian}% label
277 {% date style
278   \renewcommand*\DTMdisplaydate[4]{%
279     \DTMifbool{lsorbian}{showdayofmonth}
280     {\DTMlsorbianordinal{##3}\DTMlsorbiandaymonthsep}%
281     }%
282     \DTMlsorbianmonthname{##2}%
283     \DTMifbool{lsorbian}{showyear}%
284     {%
285       \DTMlsorbianmonthyearsep
286       \number##1
287     }%
288   }%
289 }%
290 \renewcommand*\DTMdisplaydate[4]{%
291   \DTMifbool{lsorbian}{showdayofmonth}
292   {%
293     \DTMlsorbianordinal{##3}\DTMlsorbiandaymonthsep
294     \DTMlsorbianmonthname{##2}%
295   }%
296   {%
297     \DTMlsorbianMonthname{##2}%
298   }%
299   \DTMifbool{lsorbian}{showyear}%
300   {%
301     \DTMlsorbianmonthyearsep
302     \number##1
303   }%
304   }%
305 }%
306 }%
307 {% time style (use default)
308   \DTMsettimestyle{default}%
309 }%
310 {% zone style
311   \DTMresetzones
312   \DTMlsorbianzonemaps
313   \renewcommand*\DTMdisplayzone[2]{%
314     \DTMifbool{lsorbian}{mapzone}%
315     {\DTMusedzonemapordefault{##1}{##2}}%
316     {%
317       \ifnum##1<0\else+\fi\DTMtwodigits{##1}%

```

```

318     \ifDTMshowzoneminutes\DTMlsorbiantimesep\DTMtwodigits{##2}\fi
319   }%
320 }%
321 }%
322 {% full style
323 \renewcommand*\DTMdisplay}[9]{%
324   \ifDTMshowdate
325     \DTMdisplaydate{##1}{##2}{##3}{##4}%
326     \DTMlsorbiandatetimesep
327     \fi
328     \DTMdisplaytime{##5}{##6}{##7}%
329     \ifDTMshowzone
330       \DTMlsorbiantimezonesep
331       \DTMdisplayzone{##8}{##9}%
332     \fi
333   }%
334 \renewcommand*\DTMDisplay}[9]{%
335   \ifDTMshowdate
336     \DTMDisplaydate{##1}{##2}{##3}{##4}%
337     \DTMlsorbiandatetimesep
338     \fi
339     \DTMdisplaytime{##5}{##6}{##7}%
340     \ifDTMshowzone
341       \DTMlsorbiantimezonesep
342       \DTMdisplayzone{##8}{##9}%
343     \fi
344   }%
345 }%
    Define numeric style.
346 \DTMnewstyle
347 {lsorbian-numeric}% label
348 {% date style
349   \renewcommand*\DTMdisplaydate[4]{%
350     \DTMifbool{lsorbian}{showdayofmonth}%
351     {%
352       \number##3 % space intended
353       \DTMlsorbiandatesep
354     }%
355     {%
356       \number##2 % space intended
357       \DTMifbool{lsorbian}{showyear}%
358       {%
359         \DTMlsorbiandatesep
360         \number##1 % space intended
361       }%
362     }%
363   }%
364 \renewcommand*\DTMDisplaydate{\DTMdisplaydate}%
365 }%

```

```

366 {% time style
367   \renewcommand*\DTMdisplaytime[3]{%
368     \number##1
369     \DTMlsorbiantimesep\DTMtwdigits{##2}%
370     \ifDTMshowseconds\DTMlsorbiantimesep\DTMtwdigits{##3}\fi
371   }%
372 }%
373 {% zone style
374   \DTMresetzones
375   \DTMlsorbianzonemaps
376   \renewcommand*\DTMdisplayzone[2]{%
377     \DTMifbool{lsorbian}{mapzone}%
378     {\DTMusedzonemapordefault{##1}{##2}}%
379     {%
380       \ifnum##1<0\else+\fi\DTMtwdigits{##1}%
381       \ifDTMshowzoneminutes\DTMlsorbiantimesep\DTMtwdigits{##2}\fi
382     }%
383   }%
384 }%
385 {% full style
386   \renewcommand*\DTMdisplay[9]{%
387     \ifDTMshowdate
388       \DTMdisplaydate{##1}{##2}{##3}{##4}%
389       \DTMlsorbiantimetetimesep
390       \fi
391       \DTMdisplaytime{##5}{##6}{##7}%
392       \ifDTMshowzone
393         \DTMlsorbiantimezonesep
394         \DTMdisplayzone{##8}{##9}%
395       \fi
396     }%
397   \renewcommand*\DTMDisplay{\DTMdisplay}%
398 }

```

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

```

399 \newcommand*\DTMlsorbianzonemaps{%
400   \DTMdefzonemap{01}{00}{CET}%
401   \DTMdefzonemap{02}{00}{CEST}%
402 }

```

Switch style according to the `userregional` setting.

```

403 \DTMifcaseregional
404 {}% do nothing
405 {\DTMsetstyle{lsorbian}}
406 {\DTMsetstyle{lsorbian-numeric}}

```

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

```

407 \ifcsundef{date\CurrentTrackedDialect}

```

```
408 {%
409   \ifundef\datelsorbian
410   {% do nothing
411   }%
412   {%
413     \def\datelsorbian{%
414       \DTMifcaseregional
415       }% do nothing
416       {\DTMsetstyle{lsorbian}}%
417       {\DTMsetstyle{lsorbian-numeric}}%
418     }%
419   }%
420 }%
421 {%
422   \csdef{date\CurrentTrackedDialect}{%
423     \DTMifcaseregional
424     }% do nothing
425     {\DTMsetstyle{lsorbian}}%
426     {\DTMsetstyle{lsorbian-numeric}}%
427   }%
428 }%
```

Change History

1.0		1.1	
General: Initial release	1, 4, 7	General: removed spurious space	11

Index

D		\DTMlsorbianoldMonthname	3,6
\DTMlsorbianandatesep	8	\DTMlsorbianoldmonthname	3,6
\DTMlsorbianandatetimesep	8	\DTMlsorbianordinal	2,4
\DTMlsorbianandaymonthsep	7	\DTMlsorbiantimesep	8
\DTMlsorbianMonthname	8	\DTMlsorbiantimezonesep	8
\DTMlsorbianmonthname	8	\DTMlsorbianzonemaps	11
\DTMlsorbianmonthyearsep	7		
\DTMlsorbiannewMonthname	2,5	U	
\DTMlsorbiannewmonthname	2,4	useregional	1,11