

Upper 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 <https://www.dickimaw-books.com/contact.html>

Abstract

This is the Upper 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 user regional 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 user regional setting.

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

I don't know if these settings are correct as I can't speak Upper Sorbian. In particular, I don't know if the usorbian 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-usorbian.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{usorbian-utf8}[2019/10/10 v1.1]
```

\DTMusorbianordinal

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

\DTMusorbiannewmonthname Upper Sorbian month names.

```
5 \newcommand*{\DTMusorbiannewmonthname}[1]{%
6   \ifcase#1
7     \or
8     januara%
9     \or
10    februara%
11    \or
12    měrca%
13    \or
14    apryla%
15    \or
16    meje%
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 }
```

\DTMusorbiannewMonthname As above but capitalize.

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

```

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

```

\DTMusorbianoldmonthname Upper Sorbian (old) month names.

```

61 \newcommand*{\DTMusorbianoldmonthname}[1]{%
62   \ifcase#1
63     \or
64     wulkeho róžka%
65     \or
66     małeho róžka%
67     \or
68     nalětnika%
69     \or
70     jutrownika%
71     \or
72     róžownika%
73     \or
74     smažnika%
75     \or
76     pražnika%
77     \or
78     žnjenca%
79     \or
80     požnjenca%
81     \or
82     winowca%
83     \or
84     nazymnika%
85     \or
86     hodownika%
87     \fi
88 }

```

\DTMusorbianoldMonthname As above but capitalize.

```

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

```

```

92  Wulkeho róžka%
93  \or
94  Małeho róžka%
95  \or
96  Nalětnika%
97  \or
98  Jutrownika%
99  \or
100 Róžownika%
101 \or
102 Smažnika%
103 \or
104 Pražnika%
105 \or
106 Žnjenca%
107 \or
108 Požnjenca%
109 \or
110 Winowca%
111 \or
112 Nazymnika%
113 \or
114 Hodownika%
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 L^AT_EX 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-usorbian-utf8. ldf` file as the non-ASCII characters are made active in that situation and would need protecting against expansion. Identify module

```
117 \ProvidesDateTimeModule{usorbian-ascii}[2019/10/10 v1.1]
```

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

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

\DTMusoriannewmonthname Upper Sorbian month names.
121 \newcommand*{\DTMusoriannewmonthname}[1]{%
122   \ifcase#1
123   \or
124     januara%
```

```

125 \or
126 februara%
127 \or
128 m\protect\v erca%
129 \or
130 apryla%
131 \or
132 meje%
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 }

```

\DTMusorbiannewMonthname As above but capitalize.

```

149 \newcommand*{\DTMusorbiannewMonthname}[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 Meje%
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 }

\DTMusorbianoldmonthname Upper Sorbian (old) month names.
177 \newcommand*{\DTMusorbianoldmonthname}[1]{%
178 \ifcase#1
179 \or
180 wulkeho r\protect\o\protect\v zka%
181 \or
182 ma\protect\l echo r\protect\o\protect\v zka%
183 \or
184 nal\protect\v etnika%
185 \or
186 jutrownika%
187 \or
188 r\protect\o\protect\v zownika%
189 \or
190 sma\protect\v znika%
191 \or
192 pra\protect\v znika%
193 \or
194 \protect\v znjenca%
195 \or
196 po\protect\v znjenca%
197 \or
198 winowca%
199 \or
200 nazymnika%
201 \or
202 hodownika%
203 \fi
204 }

\DTMusorbianoldMonthname As above but capitalize.
205 \newcommand*{\DTMusorbianoldMonthname}[1]{%
206 \ifcase#1
207 \or
208 Wulkeho r\protect\o\protect\v zka%
209 \or
210 Ma\protect\l echo r\protect\o\protect\v zka%
211 \or
212 Nal\protect\v etnika%
213 \or
214 Jutrownika%
215 \or
216 R\protect\o\protect\v zownika%
217 \or
218 Sma\protect\v znika%

```

```

219 \or
220 Pra\protect\v_znika%
221 \or
222 \protect\v_Znjenca%
223 \or
224 Po\protect\v_znjenca%
225 \or
226 Winowca%
227 \or
228 Nazymnika%
229 \or
230 Hodownika%
231 \fi
232 }

```

1.3 Main Upper Sorbian Module (`datetime2-usorbian.ldf`)

Identify Module

```
233 \ProvidesDateTimeModule{usorbian}[2019/10/10 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 `usorbian-utf8` if either of those engines are used otherwise load `usorbian-ascii`.

```

235 \ifxetex
236   \RequireDateTimeModule{usorbian-utf8}
237 \else
238   \ifluatex
239     \RequireDateTimeModule{usorbian-utf8}
240   \else
241     \RequireDateTimeModule{usorbian-ascii}
242   \fi
243 \fi

```

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

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

```

244 \newcommand*{\DTMusorbiandaymonthsep}{%
245   \DTMtexorpdfstring{\protect\~}{\space}%
246 }

```

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

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

```

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

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

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

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

    Provide keys that can be used in \DTMlangsetup to set these separators.
252 \DTMdefkey{usorbian}{daymonthsep}{\renewcommand*{\DTMusorbiandaymonthsep}{#1}}
253 \DTMdefkey{usorbian}{monthyearsep}{\renewcommand*{\DTMusorbianmonthyearsep}{#1}}
254 \DTMdefkey{usorbian}{datetimesep}{\renewcommand*{\DTMusorbiandatetimesep}{#1}}
255 \DTMdefkey{usorbian}{timezonesep}{\renewcommand*{\DTMusorbiantimezonesep}{#1}}
256 \DTMdefkey{usorbian}{datesep}{\renewcommand*{\DTMusorbiandatesep}{#1}}
257 \DTMdefkey{usorbian}{timesep}{\renewcommand*{\DTMusorbiantimesep}{#1}}


\DTMusorbianmonthname Provide a way to switch between old and new month names
258 \newcommand*\DTMusorbianmonthname{\DTMusorbiannewmonthname}

\DTMusorbianMonthname Provide a way to switch between old and new month names
259 \newcommand*\DTMusorbianMonthname{\DTMusorbiannewMonthname}

    Define a key to easily switch:
260 \DTMdefchoicekey{usorbian}{style}{[\val\nr]}{old,new}{%
261   \ifcase\nr\relax
262     \renewcommand*\DTMusorbianmonthname{\DTMusorbiannooldmonthname}%
263     \renewcommand*\DTMusorbianMonthname{\DTMusorbiannooldMonthname}%
264   \or
265     \renewcommand*\DTMusorbianmonthname{\DTMusorbiannewmonthname}%
266     \renewcommand*\DTMusorbianMonthname{\DTMusorbiannewMonthname}%
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{usorbian}{mapzone}[true]{}

    The default is to use mappings.
270 \DTMsetbool{usorbian}{mapzone}{true}

    Define a boolean key that determines if the day of month should be displayed.
271 \DTMdefboolkey{usorbian}{showdayofmonth}[true]{}

    The default is to show the day of month.
272 \DTMsetbool{usorbian}{showdayofmonth}{true}

```

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

```

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

```

The default is to show the year.

```

274 \DTMsetbool{usorbian}{showyear}{true}

```

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

```

275 \DTMnewstyle
276 {usorbian}%
277 {%
278   \renewcommand*\DTMdisplaydate[4]{%
279     \DTMifbool{usorbian}{showdayofmonth}{%
280       {\DTMusorbianordinal{\#\#3}\DTMusorbiandaymonthsep}{%
281         {}%}
282       \DTMusorbianmonthname{\#\#2}%
283       \DTMifbool{usorbian}{showyear}{%
284         {}%
285         \DTMusorbianmonthyearsep
286         \number{\#\#1} % space intended
287       }%
288     }%
289   }%
290   \renewcommand*\DTMDisplaydate[4]{%
291     \DTMifbool{usorbian}{showdayofmonth}{%
292       {}%
293       \DTMusorbianordinal{\#\#3}\DTMusorbiandaymonthsep
294       \DTMusorbianmonthname{\#\#2}%
295     }%
296     {}%
297     \DTMusorbianMonthname{\#\#2}%
298   }%
299   \DTMifbool{usorbian}{showyear}{%
300     {}%
301     \DTMusorbianmonthyearsep
302     \number{\#\#1} % space intended
303   }%
304   {}%
305 }%
306 }%
307 {%
308   \DTMsettimestyle{default}%
309 }%
310 {%
311   \DTMresetzones
312   \DTMusorbianzonemaps
313   \renewcommand*{\DTMdisplayzone}[2]{%
314     \DTMifbool{usorbian}{mapzone}{%
315       {\DTMusezonemapordefault{\#\#1}{\#\#2}}%
316     }%
317     \ifnum{\#\#1}<0 \else+\fi\DTMtowodigits{\#\#1}%

```

```

318      \ifDTMshowzoneminutes\DTMusorbiantimesep\DTMtowodigits{##2}\fi
319      }%
320  }%
321 }%
322 {%
323   \renewcommand*\{\DTMdisplay}[9]{%
324     \ifDTMshowdate
325       \DTMdisplaydate{##1}{##2}{##3}{##4}%
326       \DTMusorbiandatetimesep
327     \fi
328     \DTMdisplaytime{##5}{##6}{##7}%
329     \ifDTMshowzone
330       \DTMusorbiantimezonesep
331       \DTMdisplayzone{##8}{##9}%
332     \fi
333   }%
334   \renewcommand*\{\DTMDisplay}[9]{%
335     \ifDTMshowdate
336       \DTMDisplaydate{##1}{##2}{##3}{##4}%
337       \DTMusorbiandatetimesep
338     \fi
339     \DTMdisplaytime{##5}{##6}{##7}%
340     \ifDTMshowzone
341       \DTMusorbiantimezonesep
342       \DTMdisplayzone{##8}{##9}%
343     \fi
344   }%
345 }%

```

Define numeric style.

```

346 \DTMnewstyle
347  {usorbian-numeric}% label
348 {%
349   \renewcommand*\{\DTMdisplaydate}[4]{%
350     \DTMifbool{usorbian}{showdayofmonth}%
351     {%
352       \number##3 % space intended
353       \DTMusorbiandatesep
354     }%
355     {}%
356     \number##2 % space intended
357     \DTMifbool{usorbian}{showyear}%
358     {%
359       \DTMusorbiandatesep
360       \number##1 % space intended
361     }%
362     {}%
363   }%
364   \renewcommand*\{\DTMDisplaydate}{\DTMdisplaydate}%
365 }%

```

```

366  {%
367    \renewcommand*\DTMdisplaytime[3]{%
368      \number##1 % space intended
369      \DTMusorbiantimesep\DTMtwodigits{##2}%
370      \ifDTMshowseconds\DTMusorbiantimesep\DTMtwodigits{##3}\fi
371    }%
372  }%
373  {%
374    \DTMresetzones
375    \DTMusorbianzonemaps
376    \renewcommand*{\DTMdisplayzone}[2]{%
377      \DTMifbool{usorbian}{mapzone}%
378      {\DTMusezonemapOrDefault{##1}{##2}}%
379      {%
380        \ifnum##1<0 \else+\fi\DTMtwodigits{##1}%
381        \ifDTMshowzoneminutes\DTMusorbiantimesep\DTMtwodigits{##2}\fi
382      }%
383    }%
384  }%
385  {%
386    \renewcommand*{\DTMdisplay}[9]{%
387      \ifDTMshowdate
388        \DTMdisplaydate{##1}{##2}{##3}{##4}%
389        \DTMusorbiandatetimesep
390        \fi
391        \DTMdisplaytime{##5}{##6}{##7}%
392      \ifDTMshowzone
393        \DTMusorbiantimezonesep
394        \DTMdisplayzone{##8}{##9}%
395        \fi
396    }%
397    \renewcommand*{\DTMDisplay}{\DTMdisplay}%
398  }

```

\DTMusorbianzonemaps 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*{\DTMusorbianzonemaps}{%
400   \DTMdefzonemap{01}{00}{CET}%
401   \DTMdefzonemap{02}{00}{CEST}%
402 }

```

Switch style according to the `useregional` setting.

```

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

```

Redefine `\dateusorbian` (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\dateusorbian
410     {% do nothing
411   }%
412   {%
413     \def\dateusorbian{%
414       \DTMifcaseregional
415         {}% do nothing
416         {\DTMsetstyle{usorbian}}%
417         {\DTMsetstyle{usorbian-numeric}}%
418     }%
419   }%
420 }%
421 {%
422   \csdef{date\CurrentTrackedDialect}{%
423     \DTMifcaseregional
424       {}% do nothing
425       {\DTMsetstyle{usorbian}}%
426       {\DTMsetstyle{usorbian-numeric}}%
427     }%
428 }%
```

Change History

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