Norwegian 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 Norwegian 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-norsk's \today.

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

`\DTMnorskordinal`

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

`\DTMnorskmonthname`   Norwegian month names.

```
5 \newcommand*{\DTMnorskmonthname}[1]{%
6   \ifcase#1
7   \or
8   januar%
9   \or
10  februar%
11  \or
12  mars%
13  \or
14  april%
15  \or
16  mai%
17  \or
18  juni%
19  \or
20  juli%
21  \or
22  august%
23  \or
24  september%
25  \or
26  oktober%
27  \or
28  november%
29  \or
30  desember%
31  \fi
32 }
```

`\DTMnorskMonthname`   As above but capitalize.

```
33 \newcommand*{\DTMnorskMonthname}[1]{%
34  \ifcase#1
35  \or
36  Januar%
37  \or
38  Februar%
39  \or
40  Mars%
41  \or
42  April%
43  \or
44  Mai%
45  \or
```

```
46  Juni%
47  \or
48  Juli%
49  \or
50  August%
51  \or
52  September%
53  \or
54  Oktober%
55  \or
56  November%
57  \or
58  Desember%
59  \fi
60 }
```

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

\DTMnorskweekdayname   Day of week names.

```
61 \newcommand*{\DTMnorskweekdayname}[1]{%
62   \ifcase#1
63   mandag%
64   \or
65   tirsdag%
66   \or
67   onsdag%
68   \or
69   torsdag%
70   \or
71   fredag%
72   \or
73   lørdag%
74   \or
75   søndag%
76   \fi
77 }
```

\DTMnorskWeekdayname   As above but start with a capital.

```
78 \newcommand*{\DTMnorskWeekdayname}[1]{%
79   \ifcase#1
80   Mandag%
81   \or
82   Tirsdag%
83   \or
84   Onsdag%
85   \or
86   Torsdag%
87   \or
88   Fredag%
89   \or
```

```
90    Lørdag%
91    \or
92    Søndag%
93    \fi
94 }
```

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

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

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

\DTMnorskordinal

```
96 \newcommand*{\DTMnorskordinal}[1]{%
97    \number#1.%
98 }
```

\DTMnorskmonthname   Norwegian month names.

```
99 \newcommand*{\DTMnorskmonthname}[1]{%
100    \ifcase#1
101    \or
102    januar%
103    \or
104    februar%
105    \or
106    mars%
107    \or
108    april%
109    \or
110    mai%
111    \or
112    juni%
113    \or
114    juli%
115    \or
116    august%
117    \or
118    september%
119    \or
120    oktober%
121    \or
122    november%
123    \or
124    desember%
```

4

```
125    \fi
126 }
```

\DTMnorskMonthname   As above but capitalize.

```
127 \newcommand*{\DTMnorskMonthname}[1]{%
128    \ifcase#1
129    \or
130    Januar%
131    \or
132    Februar%
133    \or
134    Mars%
135    \or
136    April%
137    \or
138    Mai%
139    \or
140    Juni%
141    \or
142    Juli%
143    \or
144    August%
145    \or
146    September%
147    \or
148    Oktober%
149    \or
150    November%
151    \or
152    Desember%
153    \fi
154 }
```

\DTMnorskweekdayname   Day of week names.

```
155 \newcommand*{\DTMnorskweekdayname}[1]{%
156    \ifcase#1
157    mandag%
158    \or
159    tirsdag%
160    \or
161    onsdag%
162    \or
163    torsdag%
164    \or
165    fredag%
166    \or
167    l\o rdag%
168    \or
169    s\o ndag%
170    \fi
```

```
171 }
```

Code blocks

\DTMnorskWeekdayname   As above but start with a capital.

```
172 \newcommand*{\DTMnorskWeekdayname}[1]{%
173   \ifcase#1
174   Mandag%
175   \or
176   Tirsdag%
177   \or
178   Onsdag%
179   \or
180   Torsdag%
181   \or
182   Fredag%
183   \or
184   L\o rdag%
185   \or
186   S\o ndag%
187   \fi
188 }
```

1.3 Main Norwegian Module (`datetime2-norsk.ldf`)

Identify Module

```
189 \ProvidesDateTimeModule{norsk}[2018/07/24 v1.1]
```

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

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

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

```
191 \ifxetex
192   \RequireDateTimeModule{norsk-utf8}
193 \else
194   \ifluatex
195     \RequireDateTimeModule{norsk-utf8}
196   \else
197     \RequireDateTimeModule{norsk-ascii}
198   \fi
199 \fi
```

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

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

```
200 \newcommand*{\DTMnorskdaymonthsep}{%
```

```
201 \DTMtexorpdfstring{\protect~}{\space}%
202 }
```

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

```
203 \newcommand*{\DTMnorskmonthyearsep}{\space}
```

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

```
204 \newcommand*{\DTMnorskdatetimesep}{\space}
```

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

```
205 \newcommand*{\DTMnorsktimezonesep}{\space}
```

\DTMnorskdatesep The separator for the numeric date format.

```
206 \newcommand*{\DTMnorskdatesep}{.}
```

\DTMnorsktimesep The separator for the numeric time format.

```
207 \newcommand*{\DTMnorsktimesep}{:}
```

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

```
208 \DTMdefkey{norsk}{daymonthsep}{\renewcommand*{\DTMnorskdaymonthsep}{#1}}
209 \DTMdefkey{norsk}{monthyearsep}{\renewcommand*{\DTMnorskmonthyearsep}{#1}}
210 \DTMdefkey{norsk}{datetimesep}{\renewcommand*{\DTMnorskdatetimesep}{#1}}
211 \DTMdefkey{norsk}{timezonesep}{\renewcommand*{\DTMnorsktimezonesep}{#1}}
212 \DTMdefkey{norsk}{datesep}{\renewcommand*{\DTMnorskdatesep}{#1}}
213 \DTMdefkey{norsk}{timesep}{\renewcommand*{\DTMnorsktimesep}{#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.

```
214 \DTMdefboolkey{norsk}{mapzone}[true]{}
```

The default is to use mappings.

```
215 \DTMsetbool{norsk}{mapzone}{true}
```

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

```
216 \DTMdefboolkey{norsk}{showdayofmonth}[true]{}
```

The default is to show the day of month.

```
217 \DTMsetbool{norsk}{showdayofmonth}{true}
```

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

```
218 \DTMdefboolkey{norsk}{showyear}[true]{}
```

The default is to show the year.

```
219 \DTMsetbool{norsk}{showyear}{true}
```

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

```
220 \DTMnewstyle
221 {norsk}% label
222 {% date style
223   \renewcommand*\DTMdisplaydate[4]{%
```

```latex
224    \DTMifbool{norsk}{showdayofmonth}
225    {\DTMnorskordinal{##3}\DTMnorskdaymonthsep}%
226    {}%
227    \DTMnorskmonthname{##2}%
228    \DTMifbool{norsk}{showyear}%
229    {%
230      \DTMnorskmonthyearsep
231      \number##1
232    }%
233    {}%
234    }%
235    \renewcommand*\DTMDisplaydate[4]{%
236      \DTMifbool{norsk}{showdayofmonth}
237      {%
238        \DTMnorskordinal{##3}\DTMnorskdaymonthsep
239        \DTMnorskmonthname{##2}%
240      }%
241      {%
242        \DTMnorskMonthname{##2}%
243      }%
244      \DTMifbool{norsk}{showyear}%
245      {%
246        \DTMnorskmonthyearsep
247        \number##1
248      }%
249      {}%
250    }%
251  }%
252  {% time style (use default)
253    \DTMsettimestyle{default}%
254  }%
255  {% zone style
256    \DTMresetzones
257    \DTMnorskzonemaps
258    \renewcommand*{\DTMdisplayzone}[2]{%
259      \DTMifbool{norsk}{mapzone}%
260      {\DTMusezonemapordefault{##1}{##2}}%
261      {%
262        \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
263        \ifDTMshowzoneminutes\DTMnorsktimesep\DTMtwodigits{##2}\fi
264      }%
265    }%
266  }%
267  {% full style
268    \renewcommand*{\DTMdisplay}[9]{%
269      \ifDTMshowdate
270      \DTMdisplaydate{##1}{##2}{##3}{##4}%
271      \DTMnorskdatetimesep
272      \fi
273      \DTMdisplaytime{##5}{##6}{##7}%
```

```
274    \ifDTMshowzone
275     \DTMnorsktimezonesep
276     \DTMdisplayzone{##8}{##9}%
277    \fi
278   }%
279  \renewcommand*{\DTMDisplay}[9]{%
280    \ifDTMshowdate
281     \DTMDisplaydate{##1}{##2}{##3}{##4}%
282     \DTMnorskdatetimesep
283    \fi
284   \DTMdisplaytime{##5}{##6}{##7}%
285   \ifDTMshowzone
286     \DTMnorsktimezonesep
287     \DTMdisplayzone{##8}{##9}%
288    \fi
289   }%
290  }%
```

Define numeric style.

```
291 \DTMnewstyle
292 {norsk-numeric}% label
293 {% date style
294    \renewcommand*\DTMdisplaydate[4]{%
295      \DTMifbool{norsk}{showdayofmonth}%
296      {%
297        \number##3 % space intended
298        \DTMnorskdatesep
299      }%
300      {}%
301      \number##2 % space intended
302      \DTMifbool{norsk}{showyear}%
303      {%
304        \DTMnorskdatesep
305        \number##1 % space intended
306      }%
307      {}%
308    }%
309    \renewcommand*{\DTMDisplaydate}{\DTMdisplaydate}%
310 }%
311 {% time style
312    \renewcommand*\DTMdisplaytime[3]{%
313      \number##1
314      \DTMnorsktimesep\DTMtwodigits{##2}%
315      \ifDTMshowseconds\DTMnorsktimesep\DTMtwodigits{##3}\fi
316    }%
317 }%
318 {% zone style
319    \DTMresetzones
320    \DTMnorskzonemaps
321    \renewcommand*{\DTMdisplayzone}[2]{%
```

```
322    \DTMifbool{norsk}{mapzone}%
323    {\DTMusezonemapordefault{##1}{##2}}%
324    {%
325      \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
326      \ifDTMshowzoneminutes\DTMnorsktimesep\DTMtwodigits{##2}\fi
327    }%
328    }%
329  }%
330  {% full style
331    \renewcommand*{\DTMdisplay}[9]{%
332    \ifDTMshowdate
333      \DTMdisplaydate{##1}{##2}{##3}{##4}%
334      \DTMnorskdatetimesep
335    \fi
336    \DTMdisplaytime{##5}{##6}{##7}%
337    \ifDTMshowzone
338      \DTMnorsktimezonesep
339      \DTMdisplayzone{##8}{##9}%
340    \fi
341    }%
342    \renewcommand*{\DTMDisplay}{\DTMdisplay}%
343  }
```

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

```
344 \newcommand*{\DTMnorskzonemaps}{%
345  \DTMdefzonemap{01}{00}{CET}%
346  \DTMdefzonemap{02}{00}{CEST}%
347 }
```

Switch style according to the useregional setting.

```
348 \DTMifcaseregional
349 {}% do nothing
350 {\DTMsetstyle{norsk}}
351 {\DTMsetstyle{norsk-numeric}}
```

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

```
352 \ifcsundef{date\CurrentTrackedDialect}
353 {%
354   \ifundef\datenorsk
355   {% do nothing
356   }%
357   {%
358     \def\datenorsk{%
359       \DTMifcaseregional
360       {}% do nothing
361       {\DTMsetstyle{norsk}}%
362       {\DTMsetstyle{norsk-numeric}}%
363     }%
```

```
364    }%
365 }%
366 {%
367    \csdef{date\CurrentTrackedDialect}{%
368      \DTMifcaseregional
369      {}% do nothing
370      {\DTMsetstyle{norsk}}%
371      {\DTMsetstyle{norsk-numeric}}%
372    }%
373 }%
```

Change History

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