

Danish 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 Danish 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-danish's \today`.

I don't know if these settings are correct as I can't speak Danish. In particular, I don't know if the `danish` 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-danish.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{danish-utf8}[2015/03/30 v1.0]
```

\DTMdanishordinal

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

\DTMdanishmonthname Danish month names.

```
5 \newcommand*{\DTMdanishmonthname}[1]{%  
6   \ifcase#1  
7   \or  
8   januar%  
9   \or  
10  februar%  
11  \or  
12  marts%  
13  \or  
14  april%  
15  \or  
16  maj%  
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  december%  
31  \fi  
32 }
```

\DTMdanishMonthname As above but capitalize.

```
33 \newcommand*{\DTMdanishMonthname}[1]{%  
34   \ifcase#1  
35   \or  
36   Januar%  
37   \or  
38   Februar%  
39   \or  
40   Marts%  
41   \or  
42   April%  
43   \or  
44   Maj%  
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 December%
59 \fi
60 }

```

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

```

\DTMdanishweekdayname Danish day of week names.
61 \newcommand*{\DTMdanishweekdayname}[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 }

```

```

\DTMdanishWeekdayname As above but start with a capital.
78 \newcommand*{\DTMdanishWeekdayname}[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-danish-utf8.ldf` file as the non-ASCII characters are made active in that situation and would need protecting against expansion. Identify module

```
95 \ProvidesDateTimeModule{danish-ascii}[2015/03/30 v1.0]
```

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

`\DTMdanishordinal`

```

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

```

`\DTMdanishmonthname`

Danish month names.

```

99 \newcommand*{\DTMdanishmonthname}[1]{%
100   \ifcase#1
101   \or
102   januar%
103   \or
104   februar%
105   \or
106   marts%
107   \or
108   april%
109   \or
110   maj%
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   december%

```

```
125 \fi
126 }
```

`\DTMdanishMonthname` As above but capitalize.

```
127 \newcommand*{\DTMdanishMonthname}[1]{%
128 \ifcase#1
129 \or
130 Januar%
131 \or
132 Februar%
133 \or
134 Marts%
135 \or
136 April%
137 \or
138 Maj%
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 December%
153 \fi
154 }
```

`\DTMdanishweekdayname` Danish day of week names.

```
155 \newcommand*{\DTMdanishweekdayname}[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\protect\o rdag%
168 \or
169 s\protect\o ndag%
170 \fi
```

```
171 }
```

`\DTMdanishWeekdayname` As above but start with a capital.

```
172 \newcommand*{\DTMdanishWeekdayname}[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\protect\o rdag%
185   \or
186   S\protect\o ndag%
187   \fi
188 }
```

1.3 Main Danish Module (`datetime2-danish.ldf`)

Identify Module

```
189 \ProvidesDateTimeModule{danish}[2015/03/30 v1.0]
```

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

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

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

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

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

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

```
200 \newcommand*{\DTMdanishdaymonthsep}{\DTMtexorpdfstring{\protect~}{\space}}
```

`\DTMdanishmonthyearsep` The separator between the month and year for the text format.
201 `\newcommand*{\DTMdanishmonthyearsep}{\space}`

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

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

`\DTMdanishdatesep` The separator for the numeric date format.
204 `\newcommand*{\DTMdanishdatesep}{-}`

`\DTMdanishtimesep` The separator for the numeric time format.
205 `\newcommand*{\DTMdanishtimesep}{:}`

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

206 `\DTMdefkey{danish}{daymonthsep}{\renewcommand*{\DTMdanishdaymonthsep}{#1}}`
207 `\DTMdefkey{danish}{monthyearsep}{\renewcommand*{\DTMdanishmonthyearsep}{#1}}`
208 `\DTMdefkey{danish}{datetimesep}{\renewcommand*{\DTMdanishdatetimesep}{#1}}`
209 `\DTMdefkey{danish}{timezonesep}{\renewcommand*{\DTMdanishtimezonesep}{#1}}`
210 `\DTMdefkey{danish}{datesep}{\renewcommand*{\DTMdanishdatesep}{#1}}`
211 `\DTMdefkey{danish}{timesep}{\renewcommand*{\DTMdanishtimesep}{#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.

212 `\DTMdefboolkey{danish}{mapzone}[true]{}`

The default is to use mappings.

213 `\DTMsetbool{danish}{mapzone}{true}`

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

214 `\DTMdefboolkey{danish}{showdayofmonth}[true]{}`

The default is to show the day of month.

215 `\DTMsetbool{danish}{showdayofmonth}{true}`

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

216 `\DTMdefboolkey{danish}{showyear}[true]{}`

The default is to show the year.

217 `\DTMsetbool{danish}{showyear}{true}`

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

218 `\DTMnewstyle`

219 `{danish}% label`

220 `{% date style`

221 `\renewcommand*{\DTMdisplaydate[4]}{%`

222 `\DTMifbool{danish}{showdayofmonth}`

223 `{\DTMdanishordinal{##3}\DTMdanishdaymonthsep}%`

224 `}%`

```

225     \DTMdanishmonthname{##2}%
226     \DTMifbool{danish}{showyear}%
227     {%
228         \DTMdanishmonthyearsep
229         \number##1
230     }%
231     }%
232 }%
233 \renewcommand*\DTMdisplaydate[4]{%
234     \DTMifbool{danish}{showdayofmonth}
235     {%
236         \DTMdanishordinal{##3}\DTMdanishdaymonthsep
237         \DTMdanishmonthname{##2}%
238     }%
239     {%
240         \DTMdanishMonthname{##2}%
241     }%
242     \DTMifbool{danish}{showyear}%
243     {%
244         \DTMdanishmonthyearsep
245         \number##1
246     }%
247     }%
248 }%
249 }%
250 {% time style (use default)
251     \DTMsettimestyle{default}%
252 }%
253 {% zone style
254     \DTMresetzones
255     \DTMdanishzonemaps
256     \renewcommand*\DTMdisplayzone[2]{%
257         \DTMifbool{danish}{mapzone}%
258         {\DTMusezonemapordefault{##1}{##2}}%
259         {%
260             \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
261             \ifDTMshowzoneminutes\DTMdanishtimesep\DTMtwodigits{##2}\fi
262         }%
263     }%
264 }%
265 {% full style
266     \renewcommand*\DTMdisplay}[9]{%
267         \ifDTMshowdate
268             \DTMdisplaydate{##1}{##2}{##3}{##4}%
269             \DTMdanishdatetimesep
270         \fi
271         \DTMdisplaytime{##5}{##6}{##7}%
272         \ifDTMshowzone
273             \DTMdanishtimezonesep
274             \DTMdisplayzone{##8}{##9}%

```



```

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

Define numeric style.
289 \DTMnewstyle
290 {danish-numeric}% label
291 {% date style
292   \renewcommand*\DTMdisplaydate[4]{%
293     \DTMifbool{danish}{showdayofmonth}%
294     {%
295       \number##3 % space intended
296       \DTMdanishdatesep
297     }%
298     {%
299       \number##2 % space intended
300       \DTMifbool{danish}{showyear}%
301       {%
302         \DTMdanishdatesep
303         \number##1 % space intended
304       }%
305     }%
306   }%
307   \renewcommand*\DTMDisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
308 }%
309 {% time style
310   \renewcommand*\DTMdisplaytime[3]{%
311     \number##1
312     \DTMdanishtimesep\DTMtwdigits{##2}%
313     \ifDTMshowseconds\DTMdanishtimesep\DTMtwdigits{##3}\fi
314   }%
315 }%
316 {% zone style
317   \DTMresetzones
318   \DTMdanishzonemaps
319   \renewcommand*\DTMdisplayzone}[2]{%
320     \DTMifbool{danish}{mapzone}%
321     {\DTMusedzonemapordefault{##1}{##2}}%
322   }%

```

```

323     \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
324     \ifDTMshowzoneminutes\DTMdanishtimesep\DTMtwodigits{##2}\fi
325   }%
326 }%
327 }%
328 {% full style
329   \renewcommand*{\DTMdisplay}[9]{%
330     \ifDTMshowdate
331       \DTMdisplaydate{##1}{##2}{##3}{##4}%
332       \DTMdanishdatetimesep
333       \fi
334       \DTMdisplaytime{##5}{##6}{##7}%
335       \ifDTMshowzone
336         \DTMdanishtimezonesep
337         \DTMdisplayzone{##8}{##9}%
338       \fi
339     }%
340   \renewcommand*{\DTMDisplay}{\DTMdisplay}%
341 }

```

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

```

342 \newcommand*{\DTMdanishzonemaps}{%
343   \DTMdefzonemap{01}{00}{CET}%
344   \DTMdefzonemap{02}{00}{CEST}%
345 }

```

Switch style according to the `userregional` setting.

```

346 \DTMifcaseregional
347 {}% do nothing
348 {\DTMsetstyle{danish}}
349 {\DTMsetstyle{danish-numeric}}

```

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

```

350 \ifcsundef{date\CurrentTrackedDialect}
351 {%
352   \ifundef\datedanish
353     {% do nothing
354     }%
355   {%
356     \def\datedanish{%
357       \DTMifcaseregional
358       }% do nothing
359     {\DTMsetstyle{danish}}%
360     {\DTMsetstyle{danish-numeric}}%
361   }%
362 }%
363 }%
364 {%

```

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

Change History

1.0
General: Initial release 1, 4, 6

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