

Swedish 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 Swedish 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-swedish's \today`.

I don't know if these settings are correct as I can't speak Swedish. In particular, I don't know if the `swedish` 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-swedish.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{swedish-utf8}[2015/04/01 v1.0]
```

`\DTMswedishordinal`

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

`\DTMswedishmonthname` Swedish month names.

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

`\DTMswedishMonthname` As above but capitalize.

```
33 \newcommand*{\DTMswedishMonthname}[1]{%  
34   \ifcase#1  
35   \or  
36   Januari%  
37   \or  
38   Februari%  
39   \or  
40   Mars%  
41   \or  
42   April%  
43   \or  
44   Maj%  
45   \or
```

```

46 Juni%
47 \or
48 Juli%
49 \or
50 Augusti%
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.
Week day names are provided but currently not used in the date style.

```

\DTMswedishweekdayname Swedish day of week names.
61 \newcommand*{\DTMswedishweekdayname}[1]{%
62 \ifcase#1
63 måndag%
64 \or
65 tisdag%
66 \or
67 onsdag%
68 \or
69 torsdag%
70 \or
71 fredag%
72 \or
73 lördag%
74 \or
75 söndag%
76 \fi
77 }

```

```

\DTMswedishWeekdayname As above but start with a capital.
78 \newcommand*{\DTMswedishWeekdayname}[1]{%
79 \ifcase#1
80 Måndag%
81 \or
82 Tisdag%
83 \or
84 Onsdag%
85 \or
86 Torsdag%
87 \or
88 Fredag%

```

```

89 \or
90 Lördag%
91 \or
92 Söndag%
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-swedish-utf8.lfd` file as the non-ASCII characters are made active in that situation and would need protecting against expansion. Identify module

```
95 \ProvidesDateTimeModule{swedish-ascii}[2015/04/01 v1.0]
```

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

`\DTMswedishordinal`

```

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

```

`\DTMswedishmonthname` Swedish month names.

```

99 \newcommand*{\DTMswedishmonthname}[1]{%
100   \ifcase#1
101   \or
102   januari%
103   \or
104   februari%
105   \or
106   mars%
107   \or
108   april%
109   \or
110   maj%
111   \or
112   juni%
113   \or
114   juli%
115   \or
116   augusti%
117   \or
118   september%
119   \or
120   oktober%
121   \or
122   november%
123   \or

```

```
124 december%
125 \fi
126 }
```

`\DTMswedishMonthname` As above but capitalize.

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

Week day names are provided but currently not used in the date style.

`\DTMswedishweekdayname` Swedish day of week names.

```
155 \newcommand*{\DTMswedishweekdayname}[1]{%
156 \ifcase#1
157 m\protect\aa ndag%
158 \or
159 tisdag%
160 \or
161 onsdag%
162 \or
163 torsdag%
164 \or
165 fredag%
166 \or
167 l\protect\"ordag%
```

```

168 \or
169 s\protect\"ondag%
170 \fi
171 }

```

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

```

172 \newcommand*{\DTMswedishWeekdayname}[1]{%
173 \ifcase#1
174 M\protect\aa ndag%
175 \or
176 Tisdag%
177 \or
178 Onsdag%
179 \or
180 Torsdag%
181 \or
182 Fredag%
183 \or
184 L\protect\"ordag%
185 \or
186 S\protect\"ondag%
187 \fi
188 }

```

1.3 Main Swedish Module (`datetime2-swedish.lfd`)

Identify Module

```
189 \ProvidesDateTimeModule{swedish}[2015/04/01 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 `swedish-utf8` if either of those engines are used otherwise load `swedish-ascii`.

```

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

```

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

`\DTMswedishdaymonthsep` The separator between the day and month for the text format.
200 `\newcommand*{\DTMswedishdaymonthsep}{%`
201 `\DTMtexorpdfstring{\protect~}{\space}}`

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

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

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

`\DTMswedishdatesep` The separator for the numeric date format.
205 `\newcommand*{\DTMswedishdatesep}{.}`

`\DTMswedishtimesep` The separator for the numeric time format.
206 `\newcommand*{\DTMswedishtimesep}{:}`

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

207 `\DTMdefkey{swedish}{daymonthsep}{\renewcommand*{\DTMswedishdaymonthsep}{#1}}`
208 `\DTMdefkey{swedish}{monthyearsep}{\renewcommand*{\DTMswedishmonthyearsep}{#1}}`
209 `\DTMdefkey{swedish}{datetimesep}{\renewcommand*{\DTMswedishdatetimesep}{#1}}`
210 `\DTMdefkey{swedish}{timezonesep}{\renewcommand*{\DTMswedishtimezonesep}{#1}}`
211 `\DTMdefkey{swedish}{datesep}{\renewcommand*{\DTMswedishdatesep}{#1}}`
212 `\DTMdefkey{swedish}{timesep}{\renewcommand*{\DTMswedishtimesep}{#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.

213 `\DTMdefboolkey{swedish}{mapzone}[true]{}{}`

The default is to use mappings.

214 `\DTMsetbool{swedish}{mapzone}{true}`

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

215 `\DTMdefboolkey{swedish}{showdayofmonth}[true]{}{}`

The default is to show the day of month.

216 `\DTMsetbool{swedish}{showdayofmonth}{true}`

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

217 `\DTMdefboolkey{swedish}{showyear}[true]{}{}`

The default is to show the year.

218 `\DTMsetbool{swedish}{showyear}{true}`

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

```
219 \DTMnewstyle
220 {swedish}% label
221 {% date style
222   \renewcommand*\DTMdisplaydate[4]{%
223     \DTMifbool{swedish}{showdayofmonth}
224     {%
225       \DTMswedishordinal{##3}%
226       \DTMswedishdaymonthsep
227     }%
228   }%
229   \DTMswedishmonthname{##2}%
230   \DTMifbool{swedish}{showyear}%
231   {%
232     \DTMswedishmonthyearsep
233     \number##1
234   }%
235 }%
236 }%
237 \renewcommand*\DTMdisplaydate[4]{%
238   \DTMifbool{swedish}{showdayofmonth}
239   {%
240     \DTMswedishordinal{##3}%
241     \DTMswedishdaymonthsep
242     \DTMswedishmonthname{##2}%
243   }%
244   {%
245     \DTMswedishMonthname{##2}%
246   }%
247   \DTMifbool{swedish}{showyear}%
248   {%
249     \DTMswedishmonthyearsep
250     \number##1
251   }%
252 }%
253 }%
254 }%
255 {% time style (use default)
256   \DTMsettimestyle{default}%
257 }%
258 {% zone style
259   \DTMresetzones
260   \DTMswedishzonemaps
261   \renewcommand*\DTMdisplayzone[2]{%
262     \DTMifbool{swedish}{mapzone}%
263     {\DTMusezonemapordefault{##1}{##2}}%
264   }%
265   \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
266   \ifDTMshowzoneminutes\DTMswedishtimesep\DTMtwodigits{##2}\fi
```



```

267     }%
268   }%
269 }%
270 {% full style
271   \renewcommand*\DTMdisplay}[9]{%
272     \ifDTMshowdate
273       \DTMdisplaydate{##1}{##2}{##3}{##4}%
274       \DTMswedishdatetimesep
275     \fi
276     \DTMdisplaytime{##5}{##6}{##7}%
277     \ifDTMshowzone
278       \DTMswedishtimezonesep
279       \DTMdisplayzone{##8}{##9}%
280     \fi
281   }%
282   \renewcommand*\DTMDisplay}[9]{%
283     \ifDTMshowdate
284       \DTMDisplaydate{##1}{##2}{##3}{##4}%
285       \DTMswedishdatetimesep
286     \fi
287     \DTMdisplaytime{##5}{##6}{##7}%
288     \ifDTMshowzone
289       \DTMswedishtimezonesep
290       \DTMdisplayzone{##8}{##9}%
291     \fi
292   }%
293 }%
    Define numeric style.
294 \DTMnewstyle
295 {swedish-numeric}% label
296 {% date style
297   \renewcommand*\DTMdisplaydate[4]{%
298     \DTMifbool{swedish}{showdayofmonth}%
299     {%
300       \number##3 % space intended
301       \DTMswedishdatesep
302     }%
303     {}%
304     \number##2 % space intended
305     \DTMifbool{swedish}{showyear}%
306     {%
307       \DTMswedishdatesep
308       \number##1 % space intended
309     }%
310     {}%
311   }%
312   \renewcommand*\DTMDisplaydate{\DTMdisplaydate}%
313 }%
314 {% time style

```

```

315 \renewcommand*\DTMdisplaytime[3]{%
316 \number##1
317 \DTMswedishtimesep\DTMtwodigits{##2}%
318 \ifDTMshowseconds\DTMswedishtimesep\DTMtwodigits{##3}\fi
319 }%
320 }%
321 {% zone style
322 \DTMresetzones
323 \DTMswedishzonemaps
324 \renewcommand*\DTMdisplayzone[2]{%
325 \DTMifbool{swedish}{mapzone}%
326 {\DTMusezonemapordefault{##1}{##2}}%
327 {%
328 \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
329 \ifDTMshowzoneminutes\DTMswedishtimesep\DTMtwodigits{##2}\fi
330 }%
331 }%
332 }%
333 {% full style
334 \renewcommand*\DTMdisplay[9]{%
335 \ifDTMshowdate
336 \DTMdisplaydate{##1}{##2}{##3}{##4}%
337 \DTMswedishdatetimesep
338 \fi
339 \DTMdisplaytime{##5}{##6}{##7}%
340 \ifDTMshowzone
341 \DTMswedishtimezonesep
342 \DTMdisplayzone{##8}{##9}%
343 \fi
344 }%
345 \renewcommand*\DTMDisplay{\DTMdisplay}%
346 }

```

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

```

347 \newcommand*\DTMswedishzonemaps{%
348 \DTMdefzonemap{01}{00}{CET}%
349 \DTMdefzonemap{02}{00}{CEST}%
350 }

```

Switch style according to the `userregional` setting.

```

351 \DTMifcaseregional
352 {}% do nothing
353 {\DTMsetstyle{swedish}}
354 {\DTMsetstyle{swedish-numeric}}

```

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

```

355 \ifcsundef{date\CurrentTrackedDialect}
356 {%

```

```

357 \ifundef\dateswedish
358 {% do nothing
359 }%
360 {%
361   \def\dateswedish{%
362     \DTMifcaseregional
363     {}% do nothing
364     {\DTMsetstyle{swedish}}%
365     {\DTMsetstyle{swedish-numeric}}%
366   }%
367 }%
368 }%
369 {%
370   \csdef{date\CurrentTrackedDialect}{%
371     \DTMifcaseregional
372     {}% do nothing
373     {\DTMsetstyle{swedish}}%
374     {\DTMsetstyle{swedish-numeric}}
375   }%
376 }%

```

Change History

1.0
General: Initial release 1, 4, 6

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