

Icelandic Module for datetime2 Package

Nicola L. C. Talbot (inactive)

2018-04-24 (v1.1)

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 Icelandic 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-icelandic's \today`.

I don't know if these settings are correct as I can't speak Icelandic. In particular, I don't know if the `icelandic` 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-icelandic.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\ProvidesDate{icelandic-utf8}[2018/04/24 v1.1]
```

`\DTMicelandicordinal`

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

`\DTMicelandicmonthname` Icelandic month names.

```
5 \newcommand*{\DTMicelandicmonthname}[1]{%  
6   \ifcase#1  
7   \or  
8   janúar%  
9   \or  
10  febrúar%  
11  \or  
12  mars%  
13  \or  
14  apríl%  
15  \or  
16  maí%  
17  \or  
18  júní%  
19  \or  
20  júlí%  
21  \or  
22  ágúst%  
23  \or  
24  september%  
25  \or  
26  október%  
27  \or  
28  nóvember%  
29  \or  
30  desembe%  
31  \fi  
32 }
```

`\DTMicelandicMonthname` As above but capitalize.

```
33 \newcommand*{\DTMicelandicMonthname}[1]{%  
34   \ifcase#1  
35   \or  
36   Janúar%  
37   \or  
38   Febrúar%  
39   \or  
40   Mars%  
41   \or  
42   Apríl%  
43   \or  
44   Maí%  
45   \or
```

```

46 Júní%
47 \or
48 Júlí%
49 \or
50 Ágúst%
51 \or
52 September%
53 \or
54 Október%
55 \or
56 Nóvember%
57 \or
58 Desember%
59 \fi
60 }

```

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

```
61 \ProvidesDateTimeModule{icelandic-ascii}[2018/04/24 v1.1]
```

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

`\DTMicelandicordinal`

```

62 \newcommand*{\DTMicelandicordinal}[1]{%
63   \number#1.%
64 }

```

`\DTMicelandicmonthname` Icelandic month names.

```

65 \newcommand*{\DTMicelandicmonthname}[1]{%
66   \ifcase#1
67   \or
68   jan\protect\'uar%
69   \or
70   febr\protect\'uar%
71   \or
72   mars%
73   \or
74   apr\protect\'il%
75   \or
76   ma\protect\'i%
77   \or
78   j\protect\'un\protect\'i%

```

```

79 \or
80 j\protect\'ul\protect\'i%
81 \or
82 \protect\'ag\protect\'ust%
83 \or
84 september%
85 \or
86 okt\protect\'ober%
87 \or
88 n\protect\'ovember%
89 \or
90 desembe%
91 \fi
92 }

```

`\DTMiceLandicMonthname` As above but capitalize.

```

93 \newcommand*{\DTMiceLandicMonthname}[1]{%
94 \ifcase#1
95 \or
96 Jan\protect\'uar%
97 \or
98 Febr\protect\'uar%
99 \or
100 Mars%
101 \or
102 Apr\protect\'il%
103 \or
104 Ma\protect\'i%
105 \or
106 J\protect\'un\protect\'i%
107 \or
108 J\protect\'ul\protect\'i%
109 \or
110 \protect\'Ag\protect\'ust%
111 \or
112 September%
113 \or
114 Okt\protect\'ober%
115 \or
116 N\protect\'ovember%
117 \or
118 Desembe%
119 \fi
120 }

```

1.3 Main Icelandic Module (datetime2-icelandic.ldf)

Identify Module

```
121 \ProvidesDateTimeModule{icelandic}[2018/04/24 v1.1]
```

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

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

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

```
123 \ifxetex
```

```
124 \RequireDateTimeModule{icelandic-utf8}
```

```
125 \else
```

```
126 \ifluatex
```

```
127 \RequireDateTimeModule{icelandic-utf8}
```

```
128 \else
```

```
129 \RequireDateTimeModule{icelandic-ascii}
```

```
130 \fi
```

```
131 \fi
```

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

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

```
132 \newcommand*{\DTMicelandicdaymonthsep}{%
```

```
133 \DTMtexorpdfstring{\protect~}{\space}}%
```

```
134 }
```

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

```
135 \newcommand*{\DTMicelandicmonthyearsep}{\space}
```

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

```
136 \newcommand*{\DTMicelandicdatetimesep}{\space}
```

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

```
137 \newcommand*{\DTMicelandictimezonesep}{\space}
```

`\DTMicelandicdatesep` The separator for the numeric date format.

```
138 \newcommand*{\DTMicelandicdatesep}{/}
```

`\DTMicelandictimesep` The separator for the numeric time format.

```
139 \newcommand*{\DTMicelandictimesep}{:}
```

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

```
140 \DTMdefkey{icelandic}{daymonthsep}{\renewcommand*{\DTMicelandicdaymonthsep}{#1}}
```

```
141 \DTMdefkey{icelandic}{monthyearsep}{\renewcommand*{\DTMicelandicmonthyearsep}{#1}}
```

```
142 \DTMdefkey{icelandic}{datetimesep}{\renewcommand*{\DTMicelandicdatetimesep}{#1}}
```

```
143 \DTMdefkey{icelandic}{timezonesep}{\renewcommand*{\DTMicelandictimezonesep}{#1}}
```

```
144 \DTMdefkey{icelandic}{datesep}{\renewcommand*{\DTMicelandicdatesep}{#1}}
```

```
145 \DTMdefkey{icelandic}{timesep}{\renewcommand*{\DTMicelandictimesep}{#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.

```
146 \DTMdefboolkey{icelandic}{mapzone}[true]{}  
147 \DTMsetbool{icelandic}{mapzone}{true}
```

The default is to use mappings.

```
148 \DTMdefboolkey{icelandic}{showdayofmonth}[true]{}  
149 \DTMsetbool{icelandic}{showdayofmonth}{true}
```

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

```
148 \DTMdefboolkey{icelandic}{showdayofmonth}[true]{}  
149 \DTMsetbool{icelandic}{showdayofmonth}{true}
```

The default is to show the day of month.

```
149 \DTMsetbool{icelandic}{showdayofmonth}{true}
```

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

```
150 \DTMdefboolkey{icelandic}{showyear}[true]{}  
151 \DTMsetbool{icelandic}{showyear}{true}
```

The default is to show the year.

```
151 \DTMsetbool{icelandic}{showyear}{true}
```

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

```
152 \DTMnewstyle  
153 {icelandic}% label  
154 {% date style  
155   \renewcommand* \DTMdisplaydate[4]{%  
156     \DTMifbool{icelandic}{showdayofmonth}  
157     {\DTMicelandicordinal{##3}\DTMicelandicdaymonthsep}%  
158     }%  
159     \DTMicelandicmonthname{##2}%  
160     \DTMifbool{icelandic}{showyear}%  
161     {%  
162       \DTMicelandicmonthyearsep  
163       \number##1  
164     }%  
165   }%  
166 }%  
167 \renewcommand* \DTMdisplaydate[4]{%  
168   \DTMifbool{icelandic}{showdayofmonth}  
169   {%  
170     \DTMicelandicordinal{##3}\DTMicelandicdaymonthsep  
171     \DTMicelandicmonthname{##2}%  
172   }%  
173   {%  
174     \DTMicelandicMonthname{##2}%  
175   }%  
176   \DTMifbool{icelandic}{showyear}%  
177   {%  
178     \DTMicelandicmonthyearsep  
179     \number##1  
180   }%  
181 }%  
182 }%
```

```

183 }%
184 {% time style (use default)
185   \DTMsettimestyle{default}%
186 }%
187 {% zone style
188   \DTMresetzones
189   \DTMicelandiczonemaps
190   \renewcommand*{\DTMdisplayzone}[2]{%
191     \DTMifbool{icelandic}{mapzone}%
192     {\DTMuseumaportdefault{##1}{##2}}%
193     {%
194       \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
195       \ifDTMshowzoneminutes\DTMicelandictimesep\DTMtwodigits{##2}\fi
196     }%
197   }%
198 }%
199 {% full style
200   \renewcommand*{\DTMdisplay}[9]{%
201     \ifDTMshowdate
202       \DTMdisplaydate{##1}{##2}{##3}{##4}%
203       \DTMicelandicdatetimesep
204       \fi
205       \DTMdisplaytime{##5}{##6}{##7}%
206       \ifDTMshowzone
207         \DTMicelandictimezonesep
208         \DTMdisplayzone{##8}{##9}%
209       \fi
210     }%
211   \renewcommand*{\DTMDisplay}[9]{%
212     \ifDTMshowdate
213       \DTMDisplaydate{##1}{##2}{##3}{##4}%
214       \DTMicelandicdatetimesep
215       \fi
216       \DTMdisplaytime{##5}{##6}{##7}%
217       \ifDTMshowzone
218         \DTMicelandictimezonesep
219         \DTMdisplayzone{##8}{##9}%
220       \fi
221     }%
222 }%
    Define numeric style.
223 \DTMnewstyle
224 {icelandic-numeric}% label
225 {% date style
226   \renewcommand*\DTMdisplaydate[4]{%
227     \DTMifbool{icelandic}{showdayofmonth}%
228     {%
229       \number##3 % space intended
230       \DTMicelandicdatesep

```

```

231     }%
232     {}%
233     \number##2 % space intended
234     \DTMifbool{icelandic}{showyear}%
235     {%
236         \DTMicelandicdatesep
237         \number##1 % space intended
238     }%
239     {}%
240 }%
241 \renewcommand*{\DTMdisplaydate}{\DTMdisplaydate}%
242 }%
243 {% time style
244 \renewcommand*\DTMdisplaytime[3]{%
245     \number##1
246     \DTMicelandictimesep\DTMtwodigits{##2}%
247     \ifDTMshowseconds\DTMicelandictimesep\DTMtwodigits{##3}\fi
248 }%
249 }%
250 {% zone style
251 \DTMresetzones
252 \DTMicelandiczonemaps
253 \renewcommand*{\DTMdisplayzone}[2]{%
254     \DTMifbool{icelandic}{mapzone}%
255     {\DTMusezonemapordefault{##1}{##2}}%
256     {%
257         \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
258         \ifDTMshowzoneminutes\DTMicelandictimesep\DTMtwodigits{##2}\fi
259     }%
260 }%
261 }%
262 {% full style
263 \renewcommand*{\DTMdisplay}[9]{%
264     \ifDTMshowdate
265         \DTMdisplaydate{##1}{##2}{##3}{##4}%
266         \DTMicelandicdatetimesep
267         \fi
268         \DTMdisplaytime{##5}{##6}{##7}%
269         \ifDTMshowzone
270             \DTMicelandictimezonesep
271             \DTMdisplayzone{##8}{##9}%
272         \fi
273     }%
274 \renewcommand*{\DTMdisplay}{\DTMdisplay}%
275 }

```

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

```

276 \newcommand*\DTMicelandiczonemaps{%
277     \DTMdefzonemap{00}{00}{GMT}%

```



```
278 }
```

Switch style according to the `useregional` setting.

```
279 \DTMifcaseregional
280 {}% do nothing
281 {\DTMsetstyle{icelandic}}
282 {\DTMsetstyle{icelandic-numeric}}
```

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

```
283 \ifcsundef{date\CurrentTrackedDialect}
284 {%
285   \ifundef\dateicelandic
286   {% do nothing
287   }%
288   {%
289     \def\dateicelandic{%
290       \DTMifcaseregional
291       }% do nothing
292       {\DTMsetstyle{icelandic}}%
293       {\DTMsetstyle{icelandic-numeric}}%
294     }%
295   }%
296 }%
297 {%
298   \csdef{date\CurrentTrackedDialect}{%
299     \DTMifcaseregional
300     }% do nothing
301     {\DTMsetstyle{icelandic}}%
302     {\DTMsetstyle{icelandic-numeric}}%
303   }%
304 }%
```

Change History

1.0		1.1	
General: Initial release	..... 1, 3, 4	General: removed spurious space	..... 9

Index

D		\DTMicelandicordinal	..... 2,3
\DTMicelandicdatesep	..... 5	\DTMicelandictimesep	..... 5
\DTMicelandicdatetimesep	..... 5	\DTMicelandictimezonesep	..... 5
\DTMicelandicdaymonthsep	..... 5	\DTMicelandiczonemaps	..... 8
\DTMicelandicMonthname	..... 2,4		
\DTMicelandicmonthname	..... 2,3	U	
\DTMicelandicmonthyearsep	.... 5	useregional	..... 1,9