Scottish 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 Scottish 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-scottish`'s \today.

I don't know if these settings are correct as I can't speak Gaelic. In particular, I don't know if the `scottish` 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-scottish.ins` where Name is the name of the maintainer(s) and replace the 'inactive' status to 'maintained'.

Currently there is only a regionless style. New maintainers may want to add regional variants `gd-GB`/`gd-GB-numeric` and `gd-CA`/`gd-CA-numeric` once `gd-GB` and `gd-CA` have been added to tracklang (pending for tracklang v1.3).

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{scottish-utf8}[2019/09/14 v1.0]
```

\DTMscottishordinal   I don't know if this is correct, but it's provided in case a suffix is required.

```
2 \newcommand*{\DTMscottishordinal}[1]{%
3   \number#1 % space intended
4 }
```

\DTMscottishmonthname   Scottish month names.

```
5 \newcommand*{\DTMscottishmonthname}[1]{%
6   \ifcase#1
7   \or
8   am Faoilteach%
9   \or
10  an Gearran%
11  \or
12  am Màrt%
13  \or
14  an Giblean%
15  \or
16  an Cèitean%
17  \or
18  an t-Òg mhios%
19  \or
20  an t-Iuchar%
21  \or
22  Lùnasdal%
23  \or
24  an Sultuine%
25  \or
26  an Dàmhar%
27  \or
28  an t-Samhainn%
29  \or
30  an Dubhlachd%
31  \fi
32 }
```

\DTMscottishMonthname   Scottish month names (when occuring at the start of sentence). Is this correct?

```
33 \newcommand*{\DTMscottishMonthname}[1]{%
34  \ifcase#1
35  \or
36  Am Faoilteach%
37  \or
38  An Gearran%
39  \or
40  Am Màrt%
41  \or
42  An Giblean%
43  \or
44  An Cèitean%
45  \or
```

```
46    An t-Òg mhios%
47    \or
48    An t-Iuchar%
49    \or
50    Lùnasdal%
51    \or
52    An Sultuine%
53    \or
54    An Dàmhar%
55    \or
56    An t-Samhainn%
57    \or
58    An Dubhlachd%
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-scottish-utf8.ldf file as the non-ASCII characters are made active in that situation and would need protecting against expansion. Identify module

```
61 \ProvidesDateTimeModule{scottish-ascii}[2019/09/14 v1.0]
```

\DTMscottishordinal   I don't know if this is correct, but it's provided in case a suffix is required.

```
62 \newcommand*{\DTMscottishordinal}[1]{%
63   \number#1 % space intended
64 }
```

\DTMscottishmonthname   Scottish month names.

```
65 \newcommand*{\DTMscottishmonthname}[1]{%
66   \ifcase#1
67   \or
68   am Faoilteach%
69   \or
70   an Gearran%
71   \or
72   am M\protect\`art%
73   \or
74   an Giblean%
75   \or
76   an C\protect\`eitean%
77   \or
78   an t-\protect\`Og mhios%
79   \or
```

```
 80    an t-Iuchar%
 81    \or
 82    L\protect\'unasdal%
 83    \or
 84    an Sultuine%
 85    \or
 86    an D\protect\'amhar%
 87    \or
 88    an t-Samhainn%
 89    \or
 90    an Dubhlachd%
 91    \fi
 92 }
```

\DTMscottishMonthname Scottish month names (when occurring at the start of sentence). Is this correct?

```
 93 \newcommand*{\DTMscottishMonthname}[1]{%
 94    \ifcase#1
 95    \or
 96    Am Faoilteach%
 97    \or
 98    An Gearran%
 99    \or
100    Am M\protect\'art%
101    \or
102    An Giblean%
103    \or
104    An C\protect\'eitean%
105    \or
106    An t-\protect\'Og mhios%
107    \or
108    An t-Iuchar%
109    \or
110    L\protect\'unasdal%
111    \or
112    An Sultuine%
113    \or
114    An D\protect\'amhar%
115    \or
116    An t-Samhainn%
117    \or
118    An Dubhlachd%
119    \fi
120 }
```

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

1.3 Main Scottish Module (`datetime2-scottish.ldf`)

Identify Module

```
121 \ProvidesDateTimeModule{scottish}[2019/09/14 v1.0]
```

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

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

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

```
123 \ifxetex
124  \RequireDateTimeModule{scottish-utf8}
125 \else
126  \ifluatex
127    \RequireDateTimeModule{scottish-utf8}
128  \else
129    \RequireDateTimeModule{scottish-ascii}
130  \fi
131 \fi
```

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

\DTMscottishdaymonthsep The separator between the day and month for the text format.
```
132 \newcommand*{\DTMscottishdaymonthsep}{\space}
```

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

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

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

\DTMscottishdatesep The separator for the numeric date format.
```
136 \newcommand*{\DTMscottishdatesep}{/}
```

\DTMscottishtimesep The separator for the numeric time format.
```
137 \newcommand*{\DTMscottishtimesep}{:}
```

Provide keys that can be used in \DTMlangsetup to set these separators.
```
138 \DTMdefkey{scottish}{daymonthsep}{\renewcommand*{\DTMscottishdaymonthsep}{#1}}
139 \DTMdefkey{scottish}{monthyearsep}{\renewcommand*{\DTMscottishmonthyearsep}{#1}}
140 \DTMdefkey{scottish}{datetimesep}{\renewcommand*{\DTMscottishdatetimesep}{#1}}
141 \DTMdefkey{scottish}{timezonesep}{\renewcommand*{\DTMscottishtimezonesep}{#1}}
142 \DTMdefkey{scottish}{datesep}{\renewcommand*{\DTMscottishdatesep}{#1}}
143 \DTMdefkey{scottish}{timesep}{\renewcommand*{\DTMscottishtimesep}{#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.

```
144 \DTMdefboolkey{scottish}{mapzone}[true]{}
```

The default is to use mappings.

```
145 \DTMsetbool{scottish}{mapzone}{true}
```

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

```
146 \DTMdefboolkey{scottish}{showdayofmonth}[true]{}
```

The default is to show the day of month.

```
147 \DTMsetbool{scottish}{showdayofmonth}{true}
```

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

```
148 \DTMdefboolkey{scottish}{showyear}[true]{}
```

The default is to show the year.

```
149 \DTMsetbool{scottish}{showyear}{true}
```

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

```
150 \DTMnewstyle
151 {scottish}% label
152 {% date style
153     \renewcommand*\DTMdisplaydate[4]{%
154        \DTMifbool{scottish}{showdayofmonth}
155        {\DTMscottishordinal{##3}\DTMscottishdaymonthsep}%
156        {}%
157        \DTMscottishmonthname{##2}%
158        \DTMifbool{scottish}{showyear}%
159        {%
160          \DTMscottishmonthyearsep
161          \number##1 % space intended
162        }%
163        {}%
164     }%
165     \renewcommand*\DTMDisplaydate[4]{%
166        \DTMifbool{scottish}{showdayofmonth}
167        {%
168          \DTMscottishordinal{##3}\DTMscottishdaymonthsep
169          \DTMscottishMonthname{##2}%
170        }%
171        {\DTMscottishMonthname{##2}}%
172        \DTMifbool{scottish}{showyear}%
173        {%
174          \DTMscottishmonthyearsep
175          \number##1 % space intended
176        }%
177        {}%
178     }%
179 }%
```

```
180  {% time style (use default)
181    \DTMsettimestyle{default}%
182  }%
183  {% zone style
184    \DTMresetzones
185    \DTMscottishzonemaps
186    \renewcommand*{\DTMdisplayzone}[2]{%
187      \DTMifbool{scottish}{mapzone}%
188      {\DTMusezonemapordefault{##1}{##2}}%
189      {%
190        \ifnum##1<0 \else+\fi\DTMtwodigits{##1}%
191        \ifDTMshowzoneminutes\DTMscottishtimesep\DTMtwodigits{##2}\fi
192      }%
193    }%
194  }%
195  {% full style
196    \renewcommand*{\DTMdisplay}[9]{%
197      \ifDTMshowdate
198      \DTMdisplaydate{##1}{##2}{##3}{##4}%
199      \DTMscottishdatetimesep
200      \fi
201      \DTMdisplaytime{##5}{##6}{##7}%
202      \ifDTMshowzone
203      \DTMscottishtimezonesep
204      \DTMdisplayzone{##8}{##9}%
205      \fi
206    }%
207    \renewcommand*{\DTMDisplay}[9]{%
208      \ifDTMshowdate
209      \DTMDisplaydate{##1}{##2}{##3}{##4}%
210      \DTMscottishdatetimesep
211      \fi
212      \DTMdisplaytime{##5}{##6}{##7}%
213      \ifDTMshowzone
214      \DTMscottishtimezonesep
215      \DTMdisplayzone{##8}{##9}%
216      \fi
217    }%
218  }%
```

Define numeric style.

```
219  \DTMnewstyle
220  {scottish-numeric}% label
221  {% date style
222    \renewcommand*\DTMdisplaydate[4]{%
223      \DTMifbool{scottish}{showdayofmonth}%
224      {%
225        \number##3 % space intended
226        \DTMscottishdatesep
227      }%
```

```
228        {}%
229        \number##2 % space intended
230        \DTMifbool{scottish}{showyear}%
231        {%
232          \DTMscottishdatesep
233          \number##1 % space intended
234        }%
235        {}%
236      }%
237      \renewcommand*{\DTMDisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
238  }%
239  {% time style
240      \renewcommand*\DTMdisplaytime[3]{%
241        \number##1
242        \DTMscottishtimesep\DTMtwodigits{##2}%
243        \ifDTMshowseconds\DTMscottishtimesep\DTMtwodigits{##3}\fi
244      }%
245  }%
246  {% zone style
247      \DTMresetzones
248      \DTMscottishzonemaps
249      \renewcommand*{\DTMdisplayzone}[2]{%
250        \DTMifbool{scottish}{mapzone}%
251        {\DTMusezonemapordefault{##1}{##2}}%
252        {%
253          \ifnum##1<0 \else+\fi\DTMtwodigits{##1}%
254          \ifDTMshowzoneminutes\DTMscottishtimesep\DTMtwodigits{##2}\fi
255        }%
256      }%
257  }%
258  {% full style
259      \renewcommand*{\DTMdisplay}[9]{%
260        \ifDTMshowdate
261        \DTMdisplaydate{##1}{##2}{##3}{##4}%
262        \DTMscottishdatetimesep
263        \fi
264        \DTMdisplaytime{##5}{##6}{##7}%
265        \ifDTMshowzone
266        \DTMscottishtimezonesep
267        \DTMdisplayzone{##8}{##9}%
268        \fi
269      }%
270      \renewcommand*{\DTMDisplay}{\DTMdisplay}%
271  }
```

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

```
272 \newcommand*{\DTMscottishzonemaps}{%
273   \DTMdefzonemap{00}{00}{GMT}%
274   \DTMdefzonemap{01}{00}{BST}%
```

```
275 }
```

Switch style according to the `useregional` setting.

```
276 \DTMifcaseregional
277 {}% do nothing
278 {\DTMsetstyle{scottish}}
279 {\DTMsetstyle{scottish-numeric}}
```

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

```
280 \ifcsundef{date\CurrentTrackedDialect}
281 {%
282   \ifundef\datescottish
283   {% do nothing
284   }%
285   {%
286     \def\datescottish{%
287       \DTMifcaseregional
288       {}% do nothing
289       {\DTMsetstyle{scottish}}%
290       {\DTMsetstyle{scottish-numeric}}%
291     }%
292   }%
293 }%
294 {%
295   \csdef{date\CurrentTrackedDialect}{%
296     \DTMifcaseregional
297     {}% do nothing
298     {\DTMsetstyle{scottish}}%
299     {\DTMsetstyle{scottish-numeric}}%
300   }%
301 }%
```

Change History

Index