# Galician 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 maintanance, contact me at http://www.dickimaw-books.com/contact.html

**Abstract**

This is the Galician 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-galician's \today.

I don't know if these settings are correct as I can't speak Galician. In particular, I don't know if the galician 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-galician.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{galician-utf8}[2018/04/13 v1.1]
```

`\DTMgalicianordinal`

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

`\DTMgalicianmonthname`   Galician month names.

```
5 \newcommand*{\DTMgalicianmonthname}[1]{%
6   \ifcase#1
7   \or
8   xaneiro%
9   \or
10  febreiro%
11  \or
12  marzo%
13  \or
14  abril%
15  \or
16  maio%
17  \or
18  xuño%
19  \or
20  xullo%
21  \or
22  agosto%
23  \or
24  setembro%
25  \or
26  outubro%
27  \or
28  novembro%
29  \or
30  decembro%
31  \fi
32 }
```

`\DTMgalicianMonthname`   As above but capitalize.

```
33 \newcommand*{\DTMgalicianMonthname}[1]{%
34  \ifcase#1
35  \or
36  Xaneiro%
37  \or
38  Febreiro%
39  \or
40  Marzo%
41  \or
42  Abril%
43  \or
44  Maio%
45  \or
```

```
46   Xuño%
47   \or
48   Xullo%
49   \or
50   Agosto%
51   \or
52   Setembro%
53   \or
54   Outubro%
55   \or
56   Novembro%
57   \or
58   Decembro%
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-galician-utf8.ldf file as the non-ASCII characters are made active in that situation and would need protecting against expansion. Identify module

```
61 \ProvidesDateTimeModule{galician-ascii}[2018/04/13 v1.1]
```

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

\DTMgalicianordinal

```
62 \newcommand*{\DTMgalicianordinal}[1]{%
63   \number#1
64 }
```

\DTMgalicianmonthname    Galician month names.

```
65 \newcommand*{\DTMgalicianmonthname}[1]{%
66   \ifcase#1
67   \or
68   xaneiro%
69   \or
70   febreiro%
71   \or
72   marzo%
73   \or
74   abril%
75   \or
76   maio%
77   \or
78   xu\protect\~no%
```

3

```
79    \or
80    xullo%
81    \or
82    agosto%
83    \or
84    setembro%
85    \or
86    outubro%
87    \or
88    novembro%
89    \or
90    decembro%
91    \fi
92 }
```

\DTMgalicianMonthname    As above but capitalize.

```
 93 \newcommand*{\DTMgalicianMonthname}[1]{%
 94    \ifcase#1
 95    \or
 96    Xaneiro%
 97    \or
 98    Febreiro%
 99    \or
100    Marzo%
101    \or
102    Abril%
103    \or
104    Maio%
105    \or
106    Xu\protect\~no%
107    \or
108    Xullo%
109    \or
110    Agosto%
111    \or
112    Setembro%
113    \or
114    Outubro%
115    \or
116    Novembro%
117    \or
118    Decembro%
119    \fi
120 }
```

## 1.3   Main Galician Module (`datetime2-galician.ldf`)

Identify Module

```
121 \ProvidesDateTimeModule{galician}[2018/04/13 v1.1]
```

4

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

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

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

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

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

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

```
132 \newcommand*{\DTMgaliciandaymonthsep}{%
133  \DTMtexorpdfstring{\protect~}{\space}%
134  de\space
135 }
```

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

```
136 \newcommand*{\DTMgalicianmonthyearsep}{%
137  \space de%
138  \DTMtexorpdfstring{\protect~}{\space}%
139 }
```

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

```
140 \newcommand*{\DTMgaliciandatetimesep}{\space}
```

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

```
141 \newcommand*{\DTMgaliciantimezonesep}{\space}
```

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

```
142 \newcommand*{\DTMgaliciandatesep}{/}
```

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

```
143 \newcommand*{\DTMgaliciantimesep}{:}
```

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

```
144 \DTMdefkey{galician}{daymonthsep}{\renewcommand*{\DTMgaliciandaymonthsep}{#1}}
145 \DTMdefkey{galician}{monthyearsep}{\renewcommand*{\DTMgalicianmonthyearsep}{#1}}
```

```
146 \DTMdefkey{galician}{datetimesep}{\renewcommand*{\DTMgaliciandatetimesep}{#1}}
147 \DTMdefkey{galician}{timezonesep}{\renewcommand*{\DTMgaliciantimezonesep}{#1}}
148 \DTMdefkey{galician}{datesep}{\renewcommand*{\DTMgaliciandatesep}{#1}}
149 \DTMdefkey{galician}{timesep}{\renewcommand*{\DTMgaliciantimesep}{#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.

```
150 \DTMdefboolkey{galician}{mapzone}[true]{}
```

The default is to use mappings.

```
151 \DTMsetbool{galician}{mapzone}{true}
```

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

```
152 \DTMdefboolkey{galician}{showdayofmonth}[true]{}
```

The default is to show the day of month.

```
153 \DTMsetbool{galician}{showdayofmonth}{true}
```

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

```
154 \DTMdefboolkey{galician}{showyear}[true]{}
```

The default is to show the year.

```
155 \DTMsetbool{galician}{showyear}{true}
```

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

```
156 \DTMnewstyle
157  {galician}% label
158  {% date style
159    \renewcommand*\DTMdisplaydate[4]{%
160      \DTMifbool{galician}{showdayofmonth}
161      {\DTMgalicianordinal{##3}\DTMgaliciandaymonthsep}%
162      {}%
163      \DTMgalicianmonthname{##2}%
164      \DTMifbool{galician}{showyear}%
165      {%
166        \DTMgalicianmonthyearsep
167        \number##1
168      }%
169      {}%
170    }%
171    \renewcommand*\DTMDisplaydate[4]{%
172      \DTMifbool{galician}{showdayofmonth}
173      {%
174        \DTMgalicianordinal{##3}\DTMgaliciandaymonthsep
175        \DTMgalicianmonthname{##2}%
176      }%
177      {%
178        \DTMgalicianMonthname{##2}%
179      }%
180      \DTMifbool{galician}{showyear}%
181      {%
```

```
182        \DTMgalicianmonthyearsep
183        \number##1
184      }%
185      {}%
186    }%
187  }%
188  {% time style (use default)
189    \DTMsettimestyle{default}%
190  }%
191  {% zone style
192    \DTMresetzones
193    \DTMgalicianzonemaps
194    \renewcommand*{\DTMdisplayzone}[2]{%
195      \DTMifbool{galician}{mapzone}%
196      {\DTMusezonemapordefault{##1}{##2}}%
197      {%
198        \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
199        \ifDTMshowzoneminutes\DTMgaliciantimesep\DTMtwodigits{##2}\fi
200      }%
201    }%
202  }%
203  {% full style
204    \renewcommand*{\DTMdisplay}[9]{%
205     \ifDTMshowdate
206      \DTMdisplaydate{##1}{##2}{##3}{##4}%
207      \DTMgaliciandatetimesep
208     \fi
209     \DTMdisplaytime{##5}{##6}{##7}%
210     \ifDTMshowzone
211      \DTMgaliciantimezonesep
212      \DTMdisplayzone{##8}{##9}%
213     \fi
214    }%
215    \renewcommand*{\DTMDisplay}[9]{%
216     \ifDTMshowdate
217      \DTMDisplaydate{##1}{##2}{##3}{##4}%
218      \DTMgaliciandatetimesep
219     \fi
220     \DTMdisplaytime{##5}{##6}{##7}%
221     \ifDTMshowzone
222      \DTMgaliciantimezonesep
223      \DTMdisplayzone{##8}{##9}%
224     \fi
225    }%
226  }%
```

Define numeric style.

```
227 \DTMnewstyle
228  {galician-numeric}% label
229  {% date style
```

```
230    \renewcommand*\DTMdisplaydate[4]{%
231      \DTMifbool{galician}{showdayofmonth}%
232      {%
233        \number##3 % space intended
234        \DTMgaliciandatesep
235      }%
236      {}%
237      \number##2 % space intended
238      \DTMifbool{galician}{showyear}%
239      {%
240        \DTMgaliciandatesep
241        \number##1 % space intended
242      }%
243      {}%
244    }%
245    \renewcommand*{\DTMDisplaydate}{\DTMdisplaydate}%
246  }%
247  {% time style
248    \renewcommand*\DTMdisplaytime[3]{%
249      \number##1
250      \DTMgaliciantimesep\DTMtwodigits{##2}%
251      \ifDTMshowseconds\DTMgaliciantimesep\DTMtwodigits{##3}\fi
252    }%
253  }%
254  {% zone style
255    \DTMresetzones
256    \DTMgalicianzonemaps
257    \renewcommand*{\DTMdisplayzone}[2]{%
258      \DTMifbool{galician}{mapzone}%
259      {\DTMusezonemapordefault{##1}{##2}}%
260      {%
261        \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
262        \ifDTMshowzoneminutes\DTMgaliciantimesep\DTMtwodigits{##2}\fi
263      }%
264    }%
265  }%
266  {% full style
267    \renewcommand*{\DTMdisplay}[9]{%
268      \ifDTMshowdate
269      \DTMdisplaydate{##1}{##2}{##3}{##4}%
270      \DTMgaliciandatetimesep
271      \fi
272      \DTMdisplaytime{##5}{##6}{##7}%
273      \ifDTMshowzone
274      \DTMgaliciantimezonesep
275      \DTMdisplayzone{##8}{##9}%
276      \fi
277    }%
278    \renewcommand*{\DTMDisplay}{\DTMdisplay}%
279  }
```

\DTMgalicianzonemaps  The time zone mappings are set through this command, which can be redefined if extra mappings are required or mappings need to be removed. No default mappings are provided at the moment.

```
280 \newcommand*{\DTMgalicianzonemaps}{%
281   \DTMdefzonemap{01}{00}{CET}%
282   \DTMdefzonemap{02}{00}{CEST}%
283 }
```

Switch style according to the useregional setting.

```
284 \DTMifcaseregional
285 {}% do nothing
286 {\DTMsetstyle{galician}}
287 {\DTMsetstyle{galician-numeric}}
```

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

```
288 \ifcsundef{date\CurrentTrackedDialect}
289 {%
290   \ifundef\dategalician
291   {% do nothing
292   }%
293   {%
294     \def\dategalician{%
295       \DTMifcaseregional
296       {}% do nothing
297       {\DTMsetstyle{galician}}%
298       {\DTMsetstyle{galician-numeric}}%
299     }%
300   }%
301 }%
302 {%
303   \csdef{date\CurrentTrackedDialect}{%
304     \DTMifcaseregional
305     {}% do nothing
306     {\DTMsetstyle{galician}}%
307     {\DTMsetstyle{galician-numeric}}%
308   }%
309 }%
```

# Change History

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