

# Catalan Module for datetime2 Package

Nicola L. C. Talbot (inactive)

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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 Catalan 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-catalan`'s `\today`.

I don't know if these settings are correct as I can't speak Catalan. In particular, I don't know if the `catalan` 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-catalan.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{catalan-utf8}[2013/03/29 v1.0]
```

\DTMcatalanordinal

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

\DTMcatalanmonthname Catalan month names.

```
5 \newcommand*\DTMcatalanmonthname}[1]{%
6   \ifcase#1
7   \or
8   de gener%
9   \or
10  de febrer%
11  \or
12  de març%
13  \or
14  d'abril%
15  \or
16  de maig%
17  \or
18  de juny%
19  \or
20  de juliol%
21  \or
22  d'agost%
23  \or
24  de setembre%
25  \or
26  d'octubre%
27  \or
28  de novembre%
29  \or
30  de desembre%
31  \fi
32 }
```

\DTMcatalanMonthname As above but start with a capital.

```
33 \newcommand*\DTMcatalanMonthname}[1]{%
34   \ifcase#1
35   \or
36   De gener%
37   \or
38   De febrer%
39   \or
40   De març%
41   \or
42   D'abril%
43   \or
44   De maig%
45   \or
```

```

46 De juny%
47 \or
48 De juliol%
49 \or
50 D'agost%
51 \or
52 De setembre%
53 \or
54 D'octubre%
55 \or
56 De novembre%
57 \or
58 De desembre%
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 Xe $\LaTeX$  nor Lua $\LaTeX$  are used. Even if the user has loaded `inputenc` with `utf8`, this file should still be used not the `datettime2-catalan-utf8.1df` file as the non-ASCII characters are made active in that situation and would need protecting against expansion. Identify module

```
61 \ProvidesDateTimeModule{catalan-ascii}[2013/03/29 v1.0]
```

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

`\DTMcatalanordinal`

```

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

```

`\DTMcatalanmonthname`

Catalan month names.

```

65 \newcommand*{\DTMcatalanmonthname}[1]{%
66   \ifcase#1
67   \or
68   de gener%
69   \or
70   de febrer%
71   \or
72   de mar\protect\c{c}%
73   \or
74   d'abril%
75   \or
76   de maig%

```

```

77 \or
78 de juny%
79 \or
80 de juliol%
81 \or
82 d'agost%
83 \or
84 de setembre%
85 \or
86 d'octubre%
87 \or
88 de novembre%
89 \or
90 de desembre%
91 \fi
92 }

```

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

```

93 \newcommand*{\DTMcatalanMonthname}[1]{%
94 \ifcase#1
95 \or
96 De gener%
97 \or
98 De febrer%
99 \or
100 De mar\protect\c{c}%
101 \or
102 D'abril%
103 \or
104 De maig%
105 \or
106 De juny%
107 \or
108 De juliol%
109 \or
110 D'agost%
111 \or
112 De setembre%
113 \or
114 D'octubre%
115 \or
116 De novembre%
117 \or
118 De desembre%
119 \fi
120 }

```

### 1.3 Main Catalan Module (datetime2-catalan.1df)

Identify Module

```
121 \ProvidesDateTimeModule{catalan}[2013/03/29 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 `catalan-utf8` if either of those engines are used otherwise load `catalan-ascii`.

```
123 \ifxetex
```

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

```
125 \else
```

```
126 \ifluatex
```

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

```
128 \else
```

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

```
130 \fi
```

```
131 \fi
```

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

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

```
132 \newcommand*{\DTMcatalandaymonthsep}{\space}
```

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

```
133 \newcommand*{\DTMcatalanmonthyearsep}{%
```

```
134 \space de\DTMtexorpdfstring{\protect~}{\space}}
```

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

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

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

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

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

```
137 \newcommand*{\DTMcatalandatesep}{/}
```

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

```
138 \newcommand*{\DTMcatalantimesep}{:}
```

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

```
139 \DTMdefkey{catalan}{daymonthsep}{\renewcommand*\DTMcatalandaymonthsep}{#1}}
140 \DTMdefkey{catalan}{monthyearsep}{\renewcommand*\DTMcatalanmonthyearsep}{#1}}
141 \DTMdefkey{catalan}{datetimesep}{\renewcommand*\DTMcatalandatetimesep}{#1}}
142 \DTMdefkey{catalan}{timezonesep}{\renewcommand*\DTMcatalantimezonesep}{#1}}
143 \DTMdefkey{catalan}{datesep}{\renewcommand*\DTMcatalandatesep}{#1}}
144 \DTMdefkey{catalan}{timesep}{\renewcommand*\DTMcatalantimesep}{#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.

```
145 \DTMdefboolkey{catalan}{mapzone}[true]{}
```

The default is to use mappings.

```
146 \DTMsetbool{catalan}{mapzone}{true}
```

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

```
147 \DTMdefboolkey{catalan}{showdayofmonth}[true]{}
```

The default is to show the day of month.

```
148 \DTMsetbool{catalan}{showdayofmonth}{true}
```

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

```
149 \DTMdefboolkey{catalan}{showyear}[true]{}
```

The default is to show the year.

```
150 \DTMsetbool{catalan}{showyear}{true}
```

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

```
151 \DTMnewstyle
152 {catalan}% label
153 {% date style
154   \renewcommand*\DTMdisplaydate[4]{%
155     \DTMifbool{catalan}{showdayofmonth}
156     {\DTMcatalanordinal{##3}\DTMcatalandaymonthsep}%
157     }%
158     \DTMcatalanmonthname{##2}%
159     \DTMifbool{catalan}{showyear}%
160     {%
161       \DTMcatalanmonthyearsep
162       \number##1 % space intended
163     }%
164   }%
165 }%
166 \renewcommand*\DTMdisplaydate[4]{%
167   \DTMifbool{catalan}{showdayofmonth}
168   {%
169     \DTMcatalanordinal{##3}\DTMcatalandaymonthsep
170     \DTMcatalanmonthname{##2}%
171   }%
172   {\DTMcatalanMonthname{##2}}%
```

```

173     \DTMifbool{catalan}{showyear}%
174     {%
175         \DTMcatalanmonthyearsep
176         \number##1 % space intended
177     }%
178     {}%
179 }%
180 }%
181 {% time style (use default)
182     \DTMsettimestyle{default}%
183 }%
184 {% zone style
185     \DTMresetzones
186     \DTMcatalanzonemaps
187     \renewcommand*{\DTMdisplayzone}[2]{%
188         \DTMifbool{catalan}{mapzone}%
189         {\DTMusedzonemapordefault{##1}{##2}}%
190         {%
191             \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
192             \ifDTMshowzoneminutes\DTMcatalantimesep\DTMtwodigits{##2}\fi
193         }%
194     }%
195 }%
196 {% full style
197     \renewcommand*{\DTMdisplay}[9]{%
198         \ifDTMshowdate
199             \DTMdisplaydate{##1}{##2}{##3}{##4}%
200             \DTMcatalandatetimesep
201         \fi
202         \DTMdisplaytime{##5}{##6}{##7}%
203         \ifDTMshowzone
204             \DTMcatalantimezonesep
205             \DTMdisplayzone{##8}{##9}%
206         \fi
207     }%
208     \renewcommand*{\DTMDisplay}[9]{%
209         \ifDTMshowdate
210             \DTMDisplaydate{##1}{##2}{##3}{##4}%
211             \DTMcatalandatetimesep
212         \fi
213         \DTMdisplaytime{##5}{##6}{##7}%
214         \ifDTMshowzone
215             \DTMcatalantimezonesep
216             \DTMdisplayzone{##8}{##9}%
217         \fi
218     }%
219 }%

```

Define numeric style.

```

220 \DTMnewstyle

```

```

221 {catalan-numeric}% label
222 {% date style
223   \renewcommand*{\DTMdisplaydate}[4]{%
224     \DTMifbool{catalan}{showdayofmonth}%
225     {%
226       \number##3 % space intended
227       \DTMcatalandatesep
228     }%
229   }%
230   \number##2 % space intended
231   \DTMifbool{catalan}{showyear}%
232   {%
233     \DTMcatalandatesep
234     \number##1 % space intended
235   }%
236 }%
237 }%
238 \renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
239 }%
240 {% time style
241   \renewcommand*{\DTMdisplaytime}[3]{%
242     \number##1
243     \DTMcatalantimesep\DTMtwodigits{##2}%
244     \ifDTMshowseconds\DTMcatalantimesep\DTMtwodigits{##3}\fi
245   }%
246 }%
247 {% zone style
248   \DTMresetzones
249   \DTMcatalanzonemaps
250   \renewcommand*{\DTMdisplayzone}[2]{%
251     \DTMifbool{catalan}{mapzone}%
252     {\DTMusedzonemapordefault{##1}{##2}}%
253     {%
254       \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
255       \ifDTMshowzoneminutes\DTMcatalantimesep\DTMtwodigits{##2}\fi
256     }%
257   }%
258 }%
259 {% full style
260   \renewcommand*{\DTMdisplay}[9]{%
261     \ifDTMshowdate
262       \DTMdisplaydate{##1}{##2}{##3}{##4}%
263       \DTMcatalandatetimesep
264     \fi
265     \DTMdisplaytime{##5}{##6}{##7}%
266     \ifDTMshowzone
267       \DTMcatalantimezonesep
268       \DTMdisplayzone{##8}{##9}%
269     \fi
270   }%

```



```

271 \renewcommand*\DTMDisplay{\DTMdisplay}%
272 }

```

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

```

273 \newcommand*\DTMcatalanzonemaps{%
274 \DTMdefzonemap{01}{00}{CET}%
275 \DTMdefzonemap{02}{00}{CEST}%
276 }

```

Switch style according to the `useregional` setting.

```

277 \DTMifcaseregional
278 {}% do nothing
279 {\DTMsetstyle{catalan}}
280 {\DTMsetstyle{catalan-numeric}}

```

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

```

281 \ifcsundef{date\CurrentTrackedDialect}
282 {%
283 \ifundef\datecatalan
284 {% do nothing
285 }%
286 {%
287 \def\datecatalan{%
288 \DTMifcaseregional
289 }% do nothing
290 {\DTMsetstyle{catalan}}%
291 {\DTMsetstyle{catalan-numeric}}%
292 }%
293 }%
294 }%
295 {%
296 \csdef{date\CurrentTrackedDialect}{%
297 \DTMifcaseregional
298 }% do nothing
299 {\DTMsetstyle{catalan}}%
300 {\DTMsetstyle{catalan-numeric}}
301 }%
302 }%

```

## Change History

1.0  
General: Initial release . . . . . 1, 3, 5

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