

Basque Module for datetime2 Package

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Abstract

This is the Basque 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. Currently there is only a regionless style.

1 Introduction

According to The Basque Language Academy (*Euskaltzaindia*), there are various correct forms to display the date in Basque.¹ The most used form, which includes the name of the location where the document or text has been written, is the following:

Durango(n), 1983ko martxoaren 7a(n),

where the inessive case “*n*” is optional. It must be taken into account that the declination of numbers in Basque is not straightforward. The inessive case is deactivated by default. To activate it, set the inessive boolean option to `true` with `\DTMlangsetup`:

```
\DTMlangsetup[basque]{inessive=true}
```

2 The Code

At the moment there is only the one `.ldf` file.

¹37. *araua. Data nola adierazi*: http://euskaltzaindia.net/dok/arauak/Araua_0037.pdf

2.1 Main Basque Module (datetime2-basque.1df)

Identify Module

```
1 \ProvidesDateTimeModule{basque}[2015/03/29 v1.0]
```

Define a boolean to use the inessive case. It is not used by default.

```
2 \DTMdefboolkey{basque}{inessive}[false]{}
```

`\DTMbasqueordinal` Numbers are declined according to to the case.

```
3 \newcommand*{\DTMbasqueordinal}[1]{%
4   \number#1%
5   \DTMifbool{basque}{inessive}{%
6     \ifcase\number#1 %declination for the day (inessive case)
7     \or ean\or an\or an\or an\or ean\or an\or an\or an\or ean\or
8     n\or an\or an\or an\or ean\or an\or an\or an\or an\or ean\or
9     an\or an\or an\or ean\or an\or an\or an\or an\or ean\or n\fi%
10  }{%
11   \ifcase\number#1 %declination for the day (absolute case)
12   \or a\or a\or a\or a\or a\or a\or a\or a\or a\or a\or \or
13   a\or a\or a\or a\or a\or a\or a\or a\or a\or a\or a\or
14   a\or a\or a\or a\or a\or a\or a\or\fi%
15  }%
16 }
```

`\DTMbasquemonthname` Basque declined month names.

```
17 \newcommand*{\DTMbasquemonthname}[1]{%
18   \ifcase#1
19   \or
20   urtarrilaren%
21   \or
22   otsailaren%
23   \or
24   martxoaren%
25   \or
26   apirilaren%
27   \or
28   maiatzaren%
29   \or
30   ekainaren%
31   \or
32   uztailaren%
33   \or
34   abuztuaren%
35   \or
36   irailaren%
37   \or
38   urriaren%
39   \or
40   azaroaren%
41   \or
```

```

42 abenduaren%
43 \fi
44 }

```

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

```

45 \newcommand*{\DTMbasqueMonthname}[1]{%
46 \ifcase#1
47 \or
48 Urtarrilaren%
49 \or
50 Otsailaren%
51 \or
52 Martxoaren%
53 \or
54 Apirilaren%
55 \or
56 Maiatzaren%
57 \or
58 Ekainaren%
59 \or
60 Uztailaren%
61 \or
62 Abuztuaren%
63 \or
64 Irailaren%
65 \or
66 Urriaren%
67 \or
68 Azaroaren%
69 \or
70 Abenduaren%
71 \fi
72 }

```

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

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

```

73 \newcommand*{\DTMbasquemonthdaysep}{%
74 \DTMtexpdfstring{\protect~}{\space}}

```

`\DTMbasqueyearmonthsep` The separator between the month and year for the text format. According to the Basque declination rules for year

```

75 \newcommand*{\DTMbasqueyearmonthsep}{\ifcase\DTMtwodigits{\@dtm@currentyear}
76 %Declination for the year

```

```

77 %00-20
78 ko \or eko \or ko \or ko \or ko \or eko \or ko
79 \or ko \or ko \or ko \or eko \or ko \or ko
80 \or ko \or ko \or eko \or ko \or ko \or ko
81 \or ko \or ko \or
82 %21-40
83 eko \or ko \or ko \or ko \or eko \or ko
84 \or ko \or ko \or ko \or eko \or ko \or ko
85 \or ko \or ko \or eko \or ko \or ko \or ko
86 \or ko \or ko \or
87 %41-60
88 eko \or ko \or ko \or ko \or eko \or ko
89 \or ko \or ko \or ko \or eko \or ko \or ko
90 \or ko \or ko \or eko \or ko \or ko \or ko
91 \or ko \or ko \or
92 %61-80
93 eko \or ko \or ko \or ko \or eko \or ko
94 \or ko \or ko \or ko \or eko \or ko \or ko
95 \or ko \or ko \or eko \or ko \or ko \or ko
96 \or ko \or ko \or
97 %81-100
98 eko \or ko \or ko \or ko \or eko \or ko
99 \or ko \or ko \or ko \or eko \or ko \or ko
100 \or ko \or ko \or eko \or ko \or ko \or ko
101 \or ko \or eko
102 \fi%
103 }

```

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

```
104 \newcommand*{\DTMbasquedatetimesep}{\space}
```

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

```
105 \newcommand*{\DTMbasquetimezonesep}{\space}
```

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

There is no clear tradition for the punctuation mark to separate the numbers. Spanish tradition will use either slash (/) or en-dash (-). I couldn't find typographic guidelines on the french tradition. I choose the slash over the en-dash because I found that more compact dates are nicer.

```
106 \newcommand*{\DTMbasquedatesep}{/}
```

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

```
107 \newcommand*{\DTMbasquetimesep}{:}
```

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

```
108 \DTMdefkey{basque}{monthdaysep}{\renewcommand*{\DTMbasquemonthdaysep}{#1}}
```

```

109 \DTMdefkey{basque}{yearmonthsep}{\renewcommand*\DTMbasqueyearmonthsep}{#1}}
110 \DTMdefkey{basque}{datetimesep}{\renewcommand*\DTMbasquedatetimesep}{#1}}
111 \DTMdefkey{basque}{timezonesep}{\renewcommand*\DTMbasquetimezonesep}{#1}}
112 \DTMdefkey{basque}{datesep}{\renewcommand*\DTMbasquedatesep}{#1}}
113 \DTMdefkey{basque}{timesep}{\renewcommand*\DTMbasquetimesep}{#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.

```
114 \DTMdefboolkey{basque}{mapzone}[true]{}
```

The default is to use mappings.

```
115 \DTMsetbool{basque}{mapzone}{true}
```

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

```
116 \DTMdefboolkey{basque}{showdayofmonth}[true]{}
```

The default is to show the day of month.

```
117 \DTMsetbool{basque}{showdayofmonth}{true}
```

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

```
118 \DTMdefboolkey{basque}{showyear}[true]{}
```

The default is to show the year.

```
119 \DTMsetbool{basque}{showyear}{true}
```

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

```

120 \DTMnewstyle
121 {basque}% label
122 {% date style
123   \renewcommand*\DTMdisplaydate[4]{%
124     \DTMifbool{basque}{showyear}%
125     {%
126       \number##1%
127       \DTMbasqueyearmonthsep
128     }%
129     {}%
130     \DTMbasquemonthname{##2}%
131     \DTMifbool{basque}{showdayofmonth}
132     {\DTMbasquemonthdaysep\DTMbasqueordinal{##3}}%
133     {}%
134   }%
135   \renewcommand*\DTMdisplaydate[4]{%
136     \DTMifbool{basque}{showyear}%
137     {%
138       \number##1%
139       \DTMbasqueyearmonthsep
140       \DTMbasquemonthname{##2}%
141     }%
142     {}%
143     \DTMbasqueMonthname{##2}%

```

```

144     }%
145     \DTMifbool{basque}{showdayofmonth}
146     {\DTMbasquemonthdaysep\DTMbasqueordinal{##3}}%
147     {}%
148 }%
149 }%
150 {% time style (use default)
151     \DTMsettimestyle{default}%
152 }%
153 {% zone style
154     \DTMresetzones
155     \DTMbasquezonemaps
156     \renewcommand*{\DTMdisplayzone}[2]{%
157         \DTMifbool{basque}{mapzone}%
158         {\DTMusezonemapordefault{##1}{##2}}%
159         {%
160             \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
161             \ifDTMshowzoneminutes\DTMbasquetimesep\DTMtwodigits{##2}\fi
162         }%
163     }%
164 }%
165 {% full style
166     \renewcommand*{\DTMdisplay}[9]{%
167         \ifDTMshowdate
168             \DTMdisplaydate{##1}{##2}{##3}{##4}%
169             \DTMbasquedatetimesep
170             \fi
171             \DTMdisplaytime{##5}{##6}{##7}%
172             \ifDTMshowzone
173                 \DTMbasquetimezonesep
174                 \DTMdisplayzone{##8}{##9}%
175             \fi
176         }%
177     \renewcommand*{\DTMDisplay}[9]{%
178         \ifDTMshowdate
179             \DTMDisplaydate{##1}{##2}{##3}{##4}%
180             \DTMbasquedatetimesep
181             \fi
182             \DTMdisplaytime{##5}{##6}{##7}%
183             \ifDTMshowzone
184                 \DTMbasquetimezonesep
185                 \DTMdisplayzone{##8}{##9}%
186             \fi
187         }%
188 }%

```

Define numeric style.

```

189 \DTMnewstyle
190 {basque-numeric}% label
191 {% date style

```

```

192 \renewcommand*\DTMdisplaydate[4]{%
193 \DTMifbool{basque}{showdayofmonth}%
194 {%
195 \number##3%
196 \DTMbasquedatesep
197 }%
198 }%
199 \number##2%
200 \DTMifbool{basque}{showyear}%
201 {%
202 \DTMbasquedatesep
203 \number##1 % space intended
204 }%
205 }%
206 }%
207 \renewcommand*\DTMDisplaydate{\DTMdisplaydate}%
208 }%
209 {% time style
210 \renewcommand*\DTMdisplaytime[3]{%
211 \number##1
212 \DTMbasquetimesep\DTMtwodigits{##2}%
213 \ifDTMshowseconds\DTMbasquetimesep\DTMtwodigits{##3}\fi
214 }%
215 }%
216 {% zone style
217 \DTMresetzones
218 \DTMbasquezonemaps
219 \renewcommand*\DTMdisplayzone[2]{%
220 \DTMifbool{basque}{mapzone}%
221 {\DTMusezonemapordefault{##1}{##2}}%
222 {%
223 \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
224 \ifDTMshowzoneminutes\DTMbasquetimesep\DTMtwodigits{##2}\fi
225 }%
226 }%
227 }%
228 {% full style
229 \renewcommand*\DTMdisplay}[9]{%
230 \ifDTMshowdate
231 \DTMdisplaydate{##1}{##2}{##3}{##4}%
232 \DTMbasquedatetimesep
233 \fi
234 \DTMdisplaytime{##5}{##6}{##7}%
235 \ifDTMshowzone
236 \DTMbasquetimezonesep
237 \DTMdisplayzone{##8}{##9}%
238 \fi
239 }%
240 \renewcommand*\DTMDisplay{\DTMdisplay}%
241 }

```

`\DTMbasquezonemaps` The time zone mappings are set through this command, which can be redefined if extra mappings are required or mappings need to be removed. This currently has no mappings.

```
242 \newcommand*{\DTMbasquezonemaps}{%  
243 }
```

Switch style according to the `useregional` setting.

```
244 \DTMifcaseregional  
245 {}% do nothing  
246 {\DTMsetstyle{basque}}  
247 {\DTMsetstyle{basque-numeric}}
```

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

```
248 \ifcsundef{date\CurrentTrackedDialect}  
249 {%  
250   \ifundef\datebasque  
251     {% do nothing  
252   }%  
253   {%  
254     \def\datebasque{%  
255       \DTMifcaseregional  
256       {}% do nothing  
257       {\DTMsetstyle{basque}}%  
258       {\DTMsetstyle{basque-numeric}}%  
259     }%  
260   }%  
261 }%  
262 {%  
263   \csdef{date\CurrentTrackedDialect}{%  
264     \DTMifcaseregional  
265     {}% do nothing  
266     {\DTMsetstyle{basque}}%  
267     {\DTMsetstyle{basque-numeric}}  
268   }%  
269 }%
```


Change History

1.0	
General: Initial release	2

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