

Portuguese 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 Portuguese 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-portuges`'s `\today`.

I don't know if these settings are correct. In particular, I don't know if the `portuges` time style is correct. Currently this just uses the `default` time style. Please be aware that this may change. Whoever takes over maintainance 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-portuges.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 such as `pt-PT/pt-PT-numeric`, `pt-BR/pt-BR-numeric` etc. This style currently doesn't check the `showdow` setting.

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{portuges-utf8}[2018/08/21 v1.1]
```

```

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

\DTMportugesmonthname Portuguese month names.
5 \newcommand*{\DTMportugesmonthname}[1]{%
6   \ifcase#1
7     \or
8     Janeiro%
9     \or
10    Fevereiro%
11    \or
12    Março%
13    \or
14    Abril%
15    \or
16    Maio%
17    \or
18    Junho%
19    \or
20    Julho%
21    \or
22    Agosto%
23    \or
24    Setembro%
25    \or
26    Outubro%
27    \or
28    Novembro%
29    \or
30    Dezembro%
31    \fi
32 }

```

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

```

\DTMportugesweekdayname These are provided here but not currently used in the date format.
33 \newcommand*{\DTMportugesweekdayname}[1]{%
34   \ifcase#1
35   domingo%
36   \or
37   segunda-feira%
38   \or
39   terça-feira%
40   \or
41   quarta-feira%
42   \or

```

```

43  quinta-feira%
44  \or
45  sexta-feira%
46  \or
47  sabado%
48  \fi
49 }

\DTMportugesWeekdayname As above but start with a capital.
50 \newcommand*{\DTMportugesWeekdayname}[1]{%
51  \ifcase#1
52  Domingo%
53  \or
54  Segunda-feira%
55  \or
56  Terça-feira%
57  \or
58  Quarta-feira%
59  \or
60  Quinta-feira%
61  \or
62  Sexta-feira%
63  \or
64  Sabado%
65  \fi
66 }

```

1.2 ASCII

This file contains the settings that use L^AT_EX 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-portuges-utf8.1df` file as the non-ASCII characters are made active in that situation and would need protecting against expansion. Identify module

```
67 \ProvidesDateTimeModule{portuges-ascii}[2018/08/21 v1.1]
```

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

```
\DTMportugesordinal
68 \newcommand*{\DTMportugesordinal}[1]{%
69  \number#1
70 }
```

```
\DTMportugesmonthname Portuguese month names.
71 \newcommand*{\DTMportugesmonthname}[1]{%
72  \ifcase#1
73  \or
74  Janeiro%
```

```

75  \or
76  Fevereiro%
77  \or
78  Mar\protect\c{c}o%
79  \or
80  Abril%
81  \or
82  Maio%
83  \or
84  Junho%
85  \or
86  Julho%
87  \or
88  Agosto%
89  \or
90  Setembro%
91  \or
92  Outubro%
93  \or
94  Novembro%
95  \or
96  Dezembro%
97  \fi
98 }

```

\DTMportugesweekdayname These are provided here but not currently used in the date format.

```

99 \newcommand*{\DTMportugesweekdayname}[1]{%
100  \ifcase#1
101  domingo%
102  \or
103  segunda-feira%
104  \or
105  ter\protect\c{c}a-feira%
106  \or
107  quarta-feira%
108  \or
109  quinta-feira%
110  \or
111  sexta-feira%
112  \or
113  sabado%
114  \fi
115 }

```

\DTMportugesWeekdayname As above but start with a capital.

```

116 \newcommand*{\DTMportugesWeekdayname}[1]{%
117  \ifcase#1
118  Domingo%
119  \or
120  Segunda-feira%

```

```

121   \or
122   Ter\protect\c{c}a-feira%
123   \or
124   Quarta-feira%
125   \or
126   Quinta-feira%
127   \or
128   Sexta-feira%
129   \or
130   Sabado%
131   \fi
132 }

```

1.3 Main Portuguese Module (`datetime2-portuges.ldf`)

Identify Module

```
133 \ProvidesDateTimeModule{portuges}[2018/08/21 v1.1]
```

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

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

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

```

135 \ifxetex
136   \RequireDateTimeModule{portuges-utf8}
137 \else
138   \ifluatex
139     \RequireDateTimeModule{portuges-utf8}
140   \else
141     \RequireDateTimeModule{portuges-ascii}
142   \fi
143 \fi

```

Define the `portuges` style. The time style is the same as the `default` style provided by `datetime2`. This may need correcting.

Allow the user a way of configuring the `portuges` and `portuges-numeric` styles. This doesn't use the package wide separators such as `\dtm@datetimesep` in case other date formats are also required.

- | | |
|---------------------------------------|---|
| <code>\DTMportugesdaymonthsep</code> | The separator between the day and month for the text format.
144 <code>\newcommand*{\DTMportugesdaymonthsep}{\space de\space}</code> |
| <code>\DTMportugesmonthyearsep</code> | The separator between the month and year for the text format.
145 <code>\newcommand*{\DTMportugesmonthyearsep}{\space de\space}</code> |
| <code>\DTMportugesdatetimesep</code> | The separator between the date and time blocks in the full format (either text or numeric).
146 <code>\newcommand*{\DTMportugesdatetimesep}{\space}</code> |

```

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

\DTMportugesdatesep The separator for the numeric date format.
148 \newcommand*\{ \DTMportugesdatesep}\{/}

\DTMportugestimesep The separator for the numeric time format.
149 \newcommand*\{ \DTMportugestimesep}\{:}

Provide keys that can be used in \DTMlangsetup to set these separators.
150 \DTMdefkey{portuges}{daymonthsep}{\renewcommand*\{ \DTMportugesdaymonthsep}\{\#1\}}
151 \DTMdefkey{portuges}{monthyearsep}{\renewcommand*\{ \DTMportugesmonthyearsep}\{\#1\}}
152 \DTMdefkey{portuges}{datetimesep}{\renewcommand*\{ \DTMportugesdatetimesep}\{\#1\}}
153 \DTMdefkey{portuges}{timezonesep}{\renewcommand*\{ \DTMportugestimezonesep}\{\#1\}}
154 \DTMdefkey{portuges}{datesep}{\renewcommand*\{ \DTMportugesdatesep}\{\#1\}}
155 \DTMdefkey{portuges}{timesep}{\renewcommand*\{ \DTMportugestimesep}\{\#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.
156 \DTMdefboolkey{portuges}{mapzone}[true] {}

The default is to use mappings.
157 \DTMsetbool{portuges}{mapzone}[true]

Define a boolean key that determines if the day of month should be displayed.
158 \DTMdefboolkey{portuges}{showdayofmonth}[true] {}

The default is to show the day of month.
159 \DTMsetbool{portuges}{showdayofmonth}[true]

Define a boolean key that determines if the year should be displayed.
160 \DTMdefboolkey{portuges}{showyear}[true] {}

The default is to show the year.
161 \DTMsetbool{portuges}{showyear}[true]

Define the portuges style. (TODO: implement day of week?)
162 \DTMnewstyle
163 {portuges}%
164 {%
165   \renewcommand*\{ \DTMdisplaydate[4]\}%
166   \DTMifbool{portuges}{showdayofmonth}%
167   {\DTMportugesordinal{\#\#3}\DTMportugesdaymonthsep}%
168   {}%
169   \DTMportugesmonthname{\#\#2}%
170   \DTMifbool{portuges}{showyear}%
171   {}%
172   \DTMportugesmonthyearsep

```

```

173      \number##1 % space intended
174  }%
175  {}%
176 }%
177 \renewcommand*\DTMDisplaydate[4]{%
178   \DTMifbool{portuges}{showdayofmonth}%
179   {%
180     \DTMportugesordinal{##3}\DTMportugesdaymonthsep
181     \DTMportugesmonthname{##2}%
182   }%
183   {\DTMportugesmonthname{##2}}%
184   \DTMifbool{portuges}{showyear}%
185   {%
186     \DTMportugesmonthyearsep
187     \number##1 % space intended
188   }%
189   {}%
190 }%
191 }%
192 {%
193   \DTMsettimestyle{default}%
194 }%
195 {%
196   \DTMresetzones
197   \DTMportugeszonemaps
198   \renewcommand*{\DTMdisplayzone}[2]{%
199     \DTMifbool{portuges}{mapzone}%
200     {\DTMusezonemapordefault{##1}{##2}}%
201     {%
202       \ifnum##1<0 \else+\fi\DTMtowodigits{##1}%
203       \ifDTMshowzoneminutes\DTMportugestimesep\DTMtowodigits{##2}\fi
204     }%
205   }%
206 }%
207 {%
208   \renewcommand*{\DTMdisplay}[9]{%
209     \ifDTMshowdate
210     \DTMdisplaydate{##1}{##2}{##3}{##4}%
211     \DTMportugesdatetimesep
212     \fi
213     \DTMdisplaytime{##5}{##6}{##7}%
214     \ifDTMshowzone
215     \DTMportugestimezonesep
216     \DTMdisplayzone{##8}{##9}%
217     \fi
218   }%
219   \renewcommand*{\DTMDisplay}[9]{%
220     \ifDTMshowdate
221     \DTMDisplaydate{##1}{##2}{##3}{##4}%
222     \DTMportugesdatetimesep

```

```

223     \fi
224     \DTMdisplaytime{##5}{##6}{##7}%
225     \ifDTMshowzone
226         \DTMportugestimezonesep
227         \DTMdisplayzone{##8}{##9}%
228     \fi
229 }
230 }

Define numeric style.

231 \DTMnewstyle
232 {portuges-numeric}%
233 {%
234     \renewcommand*\DTMdisplaydate[4]{%
235         \DTMifbool{portuges}{showdayofmonth}%
236         {%
237             \number##3 % space intended
238             \DTMportugesdatesep
239         }%
240     }%
241     \number##2 % space intended
242     \DTMifbool{portuges}{showyear}%
243     {%
244         \DTMportugesdatesep
245         \number##1 % space intended
246     }%
247     {}%
248 }%
249 \renewcommand*{\DTMDisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
250 }%
251 {%
252     \renewcommand*\DTMdisplaytime[3]{%
253         \number##1 % space intended
254         \DTMportugestimesep\DTMtwodigits{##2}%
255         \ifDTMshowseconds\DTMportugestimesep\DTMtwodigits{##3}\fi
256     }%
257 }%
258 {%
259     \DTMresetzones
260     \DTMportugeszonemaps
261     \renewcommand*{\DTMdisplayzone}[2]{%
262         \DTMifbool{portuges}{mapzone}%
263         {\DTMusezonemapordefault{##1}{##2}}%
264     }%
265     \ifnum##1<0 \else+\fi\DTMtwodigits{##1}%
266     \ifDTMshowzoneminutes\DTMportugestimesep\DTMtwodigits{##2}\fi
267 }%
268 }%
269 }%
270 {%

```

```

271   \renewcommand*\{\DTMdisplay}[9]{%
272     \ifDTMshowdate
273       \DTMdisplaydate{##1}{##2}{##3}{##4}%
274       \DTMportugesdatetimesep
275     \fi
276     \DTMdisplaytime{##5}{##6}{##7}%
277     \ifDTMshowzone
278       \DTMportugestimezonesep
279       \DTMdisplayzone{##8}{##9}%
280     \fi
281   }%
282   \renewcommand*\{\DTMDisplay}{\DTMdisplay}%
283 }

```

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

```

284 \newcommand*\{\DTMportugeszonemaps}{%
285   \DTMdefzonemap{01}{00}{CET}%
286   \DTMdefzonemap{02}{00}{CEST}%
287 }

```

Switch style according to the `useregional` setting.

```

288 \DTMifcaseregional
289 {}% do nothing
290 {\DTMsetstyle{portuges}}
291 {\DTMsetstyle{portuges-numeric}}
292 \ifcsundef{date\CurrentTrackedDialect}
293 {}%
294   \ifundef\dateportuges
295     {}% do nothing
296   {}%
297   {}%
298   \def\dateportuges{%
299     \DTMifcaseregional
300     {}% do nothing
301     {\DTMsetstyle{portuges}}%
302     {\DTMsetstyle{portuges-numeric}}%
303   }%
304 }%
305 }%
306 {}%
307 \csdef{date\CurrentTrackedDialect}{%
308   \DTMifcaseregional
309   {}% do nothing
310   {\DTMsetstyle{portuges}}%
311   {\DTMsetstyle{portuges-numeric}}%
312 }%

```

313 }%

Change History

1.0	General: Initial release	1, 3, 5	1.1	General: removed spurious space . .	9
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