

# 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 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-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  $\LaTeX$  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 `datetime2-portuges-utf8.ldf` 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.1df)

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.

```

\DTMportugesdaymonthsep The separator between the day and month for the text format.
144 \newcommand*\DTMportugesdaymonthsep{\space de\space}

\DTMportugesmonthyearsep The separator between the month and year for the text format.
145 \newcommand*\DTMportugesmonthyearsep{\space de\space}

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

```

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

```
147 \newcommand*\DTMportugesimezonesep{\space}
```

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

```
148 \newcommand*\DTMportugesdatesep{/}
```

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

```
149 \newcommand*\DTMportugesimesep{:}
```

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*\DTMportugesimezonesep}{#1}}
```

```
154 \DTMdefkey{portuges}{datesep}{\renewcommand*\DTMportugesdatesep}{#1}}
```

```
155 \DTMdefkey{portuges}{timesep}{\renewcommand*\DTMportugesimesep}{#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}% label
```

```
164 {% date style
```

```
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 {% time style (use default)
193     \DTMsettimestyle{default}%
194 }%
195 {% zone style
196     \DTMresetzones
197     \DTMportugeszonemaps
198     \renewcommand*\DTMdisplayzone}[2]{%
199         \DTMifbool{portuges}{mapzone}%
200         {\DTMusedzonemapordefault{##1}{##2}}%
201         {%
202             \ifnum##1<0 \else+\fi\DTMtwodigits{##1}%
203             \ifDTMshowzoneminutes\DTMportugestimesep\DTMtwodigits{##2}\fi
204         }%
205     }%
206 }%
207 {% full style
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}% label
233 {% date style
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 {% time style
252     \renewcommand*\DTMdisplaytime[3]{%
253         \number##1 % space intended
254         \DTMportugestimesep\DTMtwdigits{##2}%
255         \ifDTMshowseconds\DTMportugestimesep\DTMtwdigits{##3}\fi
256     }%
257 }%
258 {% zone style
259     \DTMresetzones
260     \DTMportugeszonemaps
261     \renewcommand*\DTMdisplayzone[2]{%
262         \DTMifbool{portuges}{mapzone}%
263         {\DTMusedzonemapordefault{##1}{##2}}%
264         {%
265             \ifnum##1<0 \else+\fi\DTMtwdigits{##1}%
266             \ifDTMshowzoneminutes\DTMportugestimesep\DTMtwdigits{##2}\fi
267         }%
268     }%
269 }%
270 {% full style

```



```

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}}

```

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

```

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

## Index

<b>D</b>		\DTMportugesWeekdayname . . . . .	3, 4
\DTMportugesdatesep . . . . .	6	\DTMportugesweekdayname . . . . .	2, 4
\DTMportugesdatetimesep . . . . .	5	\DTMportugeszonemaps . . . . .	9
\DTMportugesdaymonthsep . . . . .	5		
\DTMportugesmonthname . . . . .	2, 3	<b>S</b>	
\DTMportugesmonthyearsep . . . . .	5	showdow . . . . .	1
\DTMportugesordinal . . . . .	2, 3		
\DTMportugestimesep . . . . .	6	<b>U</b>	
\DTMportugestimezonesep . . . . .	6	useregional . . . . .	1, 9