

Turkish 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 Turkish 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` `userregional` 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 `userregional` setting.

I've copied the date style from `babel-turkish's \today`.

I don't know if these settings are correct as I can't speak Turkish. In particular, I don't know if the `turkish` 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-turkish.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{turkish-utf8}[2015/04/01 v1.0]
```

`\DTMturkishordinal`

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

`\DTMturkishmonthname` Turkish month names.

```
5 \newcommand*{\DTMturkishmonthname}[1]{%  
6   \ifcase#1  
7   \or  
8   Ocak%  
9   \or  
10  Şubat%  
11  \or  
12  Mart%  
13  \or  
14  Nisan%  
15  \or  
16  Mayıs%  
17  \or  
18  Haziran%  
19  \or  
20  Temmuz%  
21  \or  
22  Ağustos%  
23  \or  
24  Eylül%  
25  \or  
26  Ekim%  
27  \or  
28  Kasım%  
29  \or  
30  Aralık%  
31  \fi  
32 }
```

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-turkish-utf8.ldf` file as the non-ASCII characters are made active in that situation and would need protecting against expansion. Identify module

```
33 \ProvidesDateTimeModule{turkish-ascii}[2015/04/01 v1.0]
```

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

`\DTMturkishordinal`

```

34 \newcommand*{\DTMturkishordinal}[1]{%
35   \number#1
36 }

```

`\DTMturkishmonthname` Turkish month names.

```

37 \newcommand*{\DTMturkishmonthname}[1]{%
38   \ifcase#1
39   \or
40   Ocak%
41   \or
42   \protect\c Subat%
43   \or
44   Mart%
45   \or
46   Nisan%
47   \or
48   May\protect\i s%
49   \or
50   Haziran%
51   \or
52   Temmuz%
53   \or
54   A\protect\u gustos%
55   \or
56   Eyl\protect\"ul%
57   \or
58   Ekim%
59   \or
60   Kas\protect\i m%
61   \or
62   Aral\protect\i k%
63   \fi
64 }

```

1.3 Main Turkish Module (`datetime2-turkish.1df`)

Identify Module

```
65 \ProvidesDateTimeModule{turkish}[2015/04/01 v1.0]
```

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

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

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

```

67 \ifxetex
68   \RequireDateTimeModule{turkish-utf8}
69 \else
70   \ifluatex
71     \RequireDateTimeModule{turkish-utf8}
72   \else

```

```

73 \RequireDateTimeModule{turkish-ascii}
74 \fi
75 \fi

```

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

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

```

76 \newcommand*{\DTMturkishdaymonthsep}{%
77 \DTMtexorpdfstring{\protect-}{\space}}

```

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

```

78 \newcommand*{\DTMturkishmonthyearsep}{\space}

```

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

```

79 \newcommand*{\DTMturkishdatetimesep}{\space}

```

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

```

80 \newcommand*{\DTMturkishtimezonesep}{\space}

```

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

```

81 \newcommand*{\DTMturkishdatesep}{.}

```

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

```

82 \newcommand*{\DTMturkishtimesep}{:}

```

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

```

83 \DTMdefkey{turkish}{daymonthsep}{\renewcommand*{\DTMturkishdaymonthsep}{#1}}
84 \DTMdefkey{turkish}{monthyearsep}{\renewcommand*{\DTMturkishmonthyearsep}{#1}}
85 \DTMdefkey{turkish}{datetimesep}{\renewcommand*{\DTMturkishdatetimesep}{#1}}
86 \DTMdefkey{turkish}{timezonesep}{\renewcommand*{\DTMturkishtimezonesep}{#1}}
87 \DTMdefkey{turkish}{datesep}{\renewcommand*{\DTMturkishdatesep}{#1}}
88 \DTMdefkey{turkish}{timesep}{\renewcommand*{\DTMturkishtimesep}{#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.

```

89 \DTMdefboolkey{turkish}{mapzone}[true]{}

```

The default is to use mappings.

```

90 \DTMsetbool{turkish}{mapzone}{true}

```

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

```

91 \DTMdefboolkey{turkish}{showdayofmonth}[true]{}

```

The default is to show the day of month.

```

92 \DTMsetbool{turkish}{showdayofmonth}{true}

```

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

```
93 \DTMdefboolkey{turkish}{showyear}[true]{}  
The default is to show the year.
```

```
94 \DTMsetbool{turkish}{showyear}{true}
```

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

```
95 \DTMnewstyle  
96 {turkish}% label  
97 {% date style  
98   \renewcommand*\DTMdisplaydate[4]{%  
99     \DTMifbool{turkish}{showdayofmonth}  
100     {%  
101       \DTMturkishordinal{##3}%  
102       \DTMturkishdaymonthsep  
103     }%  
104     }%  
105     \DTMturkishmonthname{##2}%  
106     \DTMifbool{turkish}{showyear}%  
107     {%  
108       \DTMturkishmonthyearsep  
109       \number##1  
110     }%  
111     }%  
112   }%  
113   \renewcommand*\DTMdisplaydate{\DTMdisplaydate}%  
114 }%  
115 {% time style (use default)  
116   \DTMsettimestyle{default}%  
117 }%  
118 {% zone style  
119   \DTMresetzones  
120   \DTMturkishzonemaps  
121   \renewcommand*\DTMdisplayzone}[2]{%  
122     \DTMifbool{turkish}{mapzone}%  
123     {\DTMusedzonemapordefault{##1}{##2}}%  
124     {%  
125       \ifnum##1<0\else+\fi\DTMtwodigits{##1}%  
126       \ifDTMshowzoneminutes\DTMturkishtimesep\DTMtwodigits{##2}\fi  
127     }%  
128   }%  
129 }%  
130 {% full style  
131   \renewcommand*\DTMdisplay}[9]{%  
132     \ifDTMshowdate  
133       \DTMdisplaydate{##1}{##2}{##3}{##4}%  
134       \DTMturkishdatetimesep  
135     \fi  
136     \DTMdisplaytime{##5}{##6}{##7}%  
137     \ifDTMshowzone
```

```

138     \DTMturkishtimezonesep
139     \DTMdisplayzone{##8}{##9}%
140     \fi
141     }%
142     \renewcommand*{\DTMDisplay}{\DTMdisplay}%
143     }%
    Define numeric style.
144 \DTMnewstyle
145 {turkish-numeric}% label
146 {% date style
147     \renewcommand*{\DTMdisplaydate[4]}{%
148         \DTMifbool{turkish}{showdayofmonth}%
149         {%
150             \number##3 % space intended
151             \DTMturkishdatesep
152         }%
153         }%
154         \number##2 % space intended
155         \DTMifbool{turkish}{showyear}%
156         {%
157             \DTMturkishdatesep
158             \number##1 % space intended
159         }%
160         }%
161     }%
162     \renewcommand*{\DTMDisplaydate}{\DTMdisplaydate}%
163 }%
164 {% time style
165     \renewcommand*{\DTMdisplaytime[3]}{%
166         \number##1
167         \DTMturkishtimesep\DTMtwodigits{##2}%
168         \ifDTMshowseconds\DTMturkishtimesep\DTMtwodigits{##3}\fi
169     }%
170 }%
171 {% zone style
172     \DTMresetzones
173     \DTMturkishzonemaps
174     \renewcommand*{\DTMdisplayzone}[2]{%
175         \DTMifbool{turkish}{mapzone}%
176         {\DTMusezonemapordefault{##1}{##2}}%
177         {%
178             \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
179             \ifDTMshowzoneminutes\DTMturkishtimesep\DTMtwodigits{##2}\fi
180         }%
181     }%
182 }%
183 {% full style
184     \renewcommand*{\DTMdisplay}[9]{%
185         \ifDTMshowdate

```

```

186 \DTMdisplaydate{##1}{##2}{##3}{##4}%
187 \DTMturkishdatetimesep
188 \fi
189 \DTMdisplaytime{##5}{##6}{##7}%
190 \ifDTMshowzone
191 \DTMturkishtimezonesep
192 \DTMdisplayzone{##8}{##9}%
193 \fi
194 }%
195 \renewcommand*{\DTMdisplay}{\DTMdisplay}%
196 }

```

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

```

197 \newcommand*{\DTMturkishzonemaps}{%
198 \DTMdefzonemap{02}{00}{EET}%
199 \DTMdefzonemap{03}{00}{EEST}%
200 }

```

Switch style according to the `userregional` setting.

```

201 \DTMifcaseregional
202 {}% do nothing
203 {\DTMsetstyle{turkish}}
204 {\DTMsetstyle{turkish-numeric}}

```

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

```

205 \ifcsundef{date\CurrentTrackedDialect}
206 {%
207 \ifundef\dateturkish
208 {% do nothing
209 }%
210 {%
211 \def\dateturkish{%
212 \DTMifcaseregional
213 }% do nothing
214 {\DTMsetstyle{turkish}}%
215 {\DTMsetstyle{turkish-numeric}}%
216 }%
217 }%
218 }%
219 {%
220 \csdef{date\CurrentTrackedDialect}{%
221 \DTMifcaseregional
222 }% do nothing
223 {\DTMsetstyle{turkish}}%
224 {\DTMsetstyle{turkish-numeric}}
225 }%
226 }%

```

Change History

1.0	
General: Initial release	1-3

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