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 https://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 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-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 maintanance 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-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}[2019/10/10 v1.1]
```

`\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}[2019/10/10 v1.1]
```

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.ldf`)

Identify Module

```
65 \ProvidesDateTimeModule{turkish}[2019/10/10 v1.1]
```

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
```

3

```
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 ap-
propriate. (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 % space intended
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     {\DTMusezonemapordefault{##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 % space intended
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 useregional 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

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