

Hebrew 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 Hebrew 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.

The date style simply uses either `babel`'s `\hebdate` or `polyglossia`'s `\hebrewwdate` so the date style isn't expandable.

I don't know if these settings are correct as I can't speak Hebrew. In particular, I don't know if the `hebrew` 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-hebrew.ins` where `Name` is the name of the maintainer(s) and replace the 'inactive' status to 'maintained'.

1 The Code

There is currently only one `.ldf` file.

1.1 Main Hebrew Module (`datetime2-hebrew.ldf`)

Identify Module

```
1 \ProvidesDateTimeModule{hebrew}[2018/04/18 v1.1]
```

The date style uses `\hebrewdate` or `\hebdate`, depending on which is defined. This needs to be robust, which means the date can't be expanded with this style. This should be fixed if at all possible. (I don't know how.)

```
\DTMhebrewdate
 2 \ifdef\hebrewdate
 3 {%
 4   \newrobustcmd*\DTMhebrewdate[3]{\hebrewdate{#3}{#2}{#1}}%
 5 }%
 6 {%
 7   \ifdef\hebdate
 8   {%
 9     \newrobustcmd*\DTMhebrewdate[3]{\hebdate{#3}{#2}{#1}}%
10   }%
11   {%
12     \newcommand*\DTMhebrewdate[3]{#3-#2-#1}%
13     \PackageWarning{datetime2-hebrew}{Neither
14       \string\hebrewdate\space nor \string\hebdate\space defined}%
15   }%
16 }%
```

For some reason `\hebrewdate` doesn't work with `\datetime2`'s definition of `\today` so it needs to be changed.

```
\today
 17 \renewcommand*\today{\DTMdisplaydate{\year}{\month}{\day}{-1}}
\Today
 18 \renewcommand*\Today{\DTMDisplaydate{\year}{\month}{\day}{-1}}
```

The full style will probably need to check for RL or LR.

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

```
19 \newcommand*\DTMhebrewdatetimesep{\space}
```

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

```
20 \newcommand*\DTMhebrewtimezonesep{\space}
```

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

```
21 \newcommand*\DTMhebrewdatesep{.}
```

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

```
22 \newcommand*\DTMhebrewtimesep{:}
```

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

```
23 \DTMdefkey{hebrew}{datetimesep}{\renewcommand*\DTMhebrewdatetimesep{#1}}
24 \DTMdefkey{hebrew}{timezonesep}{\renewcommand*\DTMhebrewtimezonesep{#1}}
25 \DTMdefkey{hebrew}{datesep}{\renewcommand*\DTMhebrewdatesep{#1}}
26 \DTMdefkey{hebrew}{timesep}{\renewcommand*\DTMhebrewtimesep{#1}}
```

Define a boolean key that determines if the time zone mappings should be used.

```
27 \DTMdefboolkey{hebrew}{mapzone}[true]{}
```

The default is to use mappings.

```
28 \DTMsetbool{hebrew}{mapzone}{true}
```

Define the `hebrew` style.

```
29 \DTMnewstyle
30  {hebrew}%
31  {%
32   \renewcommand*\DTMdisplaydate[4]{%
33     \DTMtexorpdfstring{\DTMhebrewdate{##1}{##2}{##3}{##3-##2-##1}}%
34   }%
35   \renewcommand*\DTMDisplaydate{\DTMdisplaydate}%
36 }%
37 {%
38   \DTMsettimestyle{default}%
39 }%
40 {%
41   \DTMresetzones
42   \DTMhebrewzonemaps
43   \renewcommand*{\DTMdisplayzone}[2]{%
44     \DTMifbool{hebrew}{mapzone}{%
45       {\DTMusezonemapordefault{##1}{##2}}%
46     }%
47     \ifnum##1<0\else+\fi\DTMtowodigits{##1}%
48     \ifDTMshowzoneminutes\DTMhebrewtimesep\DTMtowodigits{##2}\fi
49   }%
50 }%
51 }%
52 {%
53   \renewcommand*{\DTMdisplay}[9]{%
54     \ifDTMshowdate
55       \DTMdisplaydate{##1}{##2}{##3}{##4}%
56       \DTMhebrewdatetimesep
57     \fi
58     \DTMdisplaytime{##5}{##6}{##7}%
59     \ifDTMshowzone
60       \DTMhebrewtimezonesep
61       \DTMdisplayzone{##8}{##9}%
62     \fi
63   }%
64   \renewcommand*{\DTMDisplay}{\DTMdisplay}%
65 }%
```

Define numeric style.

```
66 \DTMnewstyle
67  {hebrew-numeric}%
68  {%
69    \renewcommand*\DTMdisplaydate[4]{%
```

```

70      \DTMifbool{hebrew}{showdayofmonth}%
71      {%
72          \number##3 % space intended
73          \DTMhebrewdatesep
74      }%
75      {}%
76      \number##2 % space intended
77      \DTMifbool{hebrew}{showyear}%
78      {%
79          \DTMhebrewdatesep
80          \number##1 % space intended
81      }%
82      {}%
83  }%
84  \renewcommand*\DTMDisplaydate{\DTMdisplaydate}%
85 }%
86 {%
87     \renewcommand*\DTMdisplaytime[3]{%
88         \number##1
89         \DTMhebrewtimesep\DTMtowodigits{##2}%
90         \ifDTMshowseconds\DTMhebrewtimesep\DTMtowodigits{##3}\fi
91     }%
92 }%
93 {%
94     \DTMresetzones
95     \DTMhebrewzonemaps
96     \renewcommand*\{\DTMdisplayzone}[2]{%
97         \DTMifbool{hebrew}{mapzone}%
98         {\DTMusezonemapordefault{##1}{##2}}%
99         {}%
100        \ifnum##1<0\else+\fi\DTMtowodigits{##1}%
101        \ifDTMshowzoneminutes\DTMhebrewtimesep\DTMtowodigits{##2}\fi
102    }%
103 }%
104 }%
105 {%
106     \renewcommand*\{\DTMdisplay}[9]{%
107         \ifDTMshowdate
108             \DTMdisplaydate{##1}{##2}{##3}{##4}%
109             \DTMhebrewdatetimesep
110         \fi
111         \DTMdisplaytime{##5}{##6}{##7}%
112         \ifDTMshowzone
113             \DTMhebrewtimezonesep
114             \DTMdisplayzone{##8}{##9}%
115         \fi
116     }%
117     \renewcommand*\{\DTMDisplay}{\DTMdisplay}%
118 }

```

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

```
119 \newcommand*\DTMhebrewzonemaps{%
120 }
```

Switch style according to the `useregional` setting.

```
121 \DTMifcaseregional
122 {}% do nothing
123 {\DTMsetstyle{hebrew}}
124 {\DTMsetstyle{hebrew-numeric}}
125 \ifcsundef{date\CurrentTrackedDialect}{%
126 }%
127   \ifundef{\datehebrew}{%
128     {}% do nothing
129   }%
130   {}%
131   \def{\datehebrew}{%
132     \DTMifcaseregional
133     {}% do nothing
134     {\DTMsetstyle{hebrew}}%
135     {\DTMsetstyle{hebrew-numeric}}%
136   }%
137 }%
138 }%
139 }%
140 \csdef{date\CurrentTrackedDialect}{%
141   \DTMifcaseregional
142   {}% do nothing
143   {\DTMsetstyle{hebrew}}%
144   {\DTMsetstyle{hebrew-numeric}}%
145 }%
146 }%
```

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

Change History

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