Hebrew Module for datetime2 Package

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2010-04-18 (v1.1)

This module is currently unmaintained and may be subject to change. If you want to volunteer to take over maintainance, 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\langle language\rangle depending on the value of the useregional setting.

The date style simply uses either babel’s \hebdate or polyglossia’s \hebrewdate 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 maintainance 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 \string\hebrewdate\space nor \string\hebdate\space defined}{}%
14 %
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}{\space}}
24 \DTMdefkey{hebrew}{timezonesep}{\renewcommand*{\DTMhebrewtimezonesep}{\space}}
25 \DTMdefkey{hebrew}{datesep}{\renewcommand*{\DTMhebrewdatesep}{.}}
26 \DTMdefkey{hebrew}{timesep}{\renewcommand*{\DTMhebrewtimesep}{:}}

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

\DTMdefboolkey{hebrew}{mapzone}{true}

The default is to use mappings.

\DTMsetbool{hebrew}{mapzone}{true}

Define the hebrew style.

\DTMnewstyle
{hebrew} % label
\{ % date style
\renewcommand*{\DTMdisplaydate}[4]{% 
\DTMtexorpdfstring{\DTMhebrewdate{##1}{##2}{##3}}{##3-##2-##1}%% 
\renewcommand*{\DTMdisplaydate}{\DTMdisplaydate}%%
\% % time style (use default)
\DTMsettimestyle{default}%%
\}% % zone style
\DTMresetzones
\DTMhebrewzonemaps
\renewcommand*{\DTMdisplayzone}[2]{% 
\DTMifbool{hebrew}{mapzone}{\DTMusezonemapordefault{##1}{##2}}%
\ifnum##1<0\else+\fi\DTMtwodigits{##1}\
\ifDTMshowzoneminutes\DTMhebrewtimesep\DTMtwodigits{##2}\fi
\}% % full style
\renewcommand*{\DTMdisplay}[9]{% 
\ifDTMshowdate
\DTMdisplaydate{##1}{##2}{##3}{##4}\
\DTMhebrewdatetimesep
\fi
\DTMdisplaytime{##5}{##6}{##7}\
\ifDTMshowzone
\DTMhebrewtimezonesep
\DTMdisplayzone{##8}{##9}\
\fi
\}%
\renewcommand*{\DTMdisplay}{\DTMdisplay}%
\}% % numeric style
\DTMnewstyle
{hebrew-numeric} % label
\{ % date style
\renewcommand*{\DTMdisplaydate}[4]{% 
\ifDTMshowdate
\DTMdisplaydate{##1}{##2}{##3}{##4}\
\DTMhebrewdatetimesep
\fi
\DTMdisplaytime{##5}{##6}{##7}\
\ifDTMshowzone
\DTMhebrewtimezonesep
\DTMdisplayzone{##8}{##9}\
\fi
\}%
\renewcommand*{\DTMdisplay}{\DTMdisplay}%
\}%

Define numeric style.
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.

\newcommand*{\DTMhebrewzonemaps}{%}

Switch style according to the \texttt{useregional} setting.

\DTMifcaseregional
}{% do nothing
\DTMsetstyle{hebrew}
\DTMsetstyle{hebrew-numeric}

Redefine \texttt{\datehebrew} (or \texttt{\date\langle dialect\rangle}) to prevent \texttt{babel} from resetting \texttt{\today}. (For this to work, \texttt{babel} must already have been loaded if it’s required.)

\ifcsundefined{date\CurrentTrackedDialect}
{%
\ifundefined{datehebrew}
{% do nothing
}%
{%
\def{datehebrew}{%
\DTMifcaseregional
}{% do nothing
\DTMsetstyle{hebrew}
\DTMsetstyle{hebrew-numeric}
}%
{%
\csdef{date\CurrentTrackedDialect}{%
\DTMifcaseregional
}{% do nothing
\DTMsetstyle{hebrew}
\DTMsetstyle{hebrew-numeric}
}%
Change History

1.0
General: Initial release ........ 1

1.1
General: removed spurious space . 5

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