Abstract

This is the English language module for the \texttt{datetime2} package. If you want to use the settings in this module you must install it in addition to installing \texttt{datetime2}. If you use \texttt{babel} or \texttt{polyglossia}, you will need this module to prevent them from redefining \texttt{\today}. The \texttt{datetime2 \texttt{useregional}} setting must be on (\texttt{text} or \texttt{numeric}) for the language styles to be set. Alternatively, you can set them in the document using \texttt{\DTMsetstyle}, but without the \texttt{useregional} setting on the style will be changed by \texttt{\date(\text{language})}.

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1 Introduction

This bundle provides the English modules for datetime2. The basic english module is used when english has been detected as one of the document’s language settings but no regional variant has been detected. Note that the tracklang package can’t detect the variant passed to polyglossia unless it’s been passed as a document class option or passed to tracklang. See the tracklang documentation for further details.

Here are some examples for British English with polyglossia:

1. Pass british in the document class option list:

   \documentclass[british]{article} \\
   \usepackage{fontspec} \\
   \usepackage{polyglossia} \\
   \setmainlanguage[variant=uk]{english} \\
   \usepackage{datetime2}

   (You need to set the useregional option to either text or numeric to enable the en-GB or en-GB-numeric styles.)

2. Pass en-GB in the document class option list:

   \documentclass[en-GB]{article} \\
   \usepackage{fontspec} \\
   \usepackage{polyglossia} \\
   \setdefaultlanguage[variant=uk]{english} \\
   \usepackage{datetime2}

   (You need to set the useregional option to either text or numeric to enable the en-GB or en-GB-numeric styles.)

3. Pass en-GB to datetime2:

   \documentclass{article} \\
   \usepackage{fontspec} \\
   \usepackage{polyglossia} \\
   \setdefaultlanguage[variant=uk]{english} \\
   \usepackage[en-GB]{datetime2}

   In this last example, the style is automatically switched to en-GB.

   Note that if you pass the language setting through the datetime2 package option list (as in the above example) this will also set the useregional option to text.
If you’re not using babel or polyglossia but still want to use the English modules, you can similarly use the language or regional setting in the document class or datetime2 package options. Note that since datetime2 loads tracklang, this setting will be remembered by any subsequently loaded packages that use tracklang to determine the document language settings.

For example, to use the \textit{en-GB} date style without loading babel or polyglossia:

\begin{verbatim}
\documentclass{article}
\usepackage[en-GB]{datetime2}
\begin{document}
\today
\end{document}
\end{verbatim}

If you want to change the settings for a particular module, you must use the module’s name (such as \textit{en-GB}) rather than a babel or polyglossia synonym (such as british or uk). For example:

\begin{verbatim}
\DTMlangsetup[en-GB]{ord=raise}
\end{verbatim}

2 Base module

The \texttt{english-base} module is loaded by all the English modules. It provides the commands that produce text, such as the month names. It also provides a 12 hour time style called \texttt{englishampm}.

3 English (no region)

The default \texttt{english} module is used when English has been set as one of the document languages, but no regional variant has been detected or there is no support for the given region.

This basic module provides the date-time style \texttt{english} which uses the same style as \LaTeX’s default \texttt{\today}. (That is, the middle-endian date style.) This style ignores most of the settings, including \texttt{showday} and the date separators. The time style uses the \texttt{englishampm} style defined in the base module which uses the package-wide \texttt{hourminsep} setting. The zone style is the same as that provided by the \texttt{default} style. (That is, numerical ISO or just “Z”.). The full date, time and zone style (used by \texttt{\DTMdisplay}) have spaces between each block. The \texttt{showdate}, \texttt{showzone}, \texttt{showseconds}, \texttt{showzoneminutes} and \texttt{showisoZ} datetime2 settings are honoured.

This module checks for the existence of \texttt{\dateenglish} or \texttt{\date\langle dialect\rangle} (in the case of an unknown English variant that doesn’t match any of the supplied English dialect modules). If it exists, the command will be redefined so that it sets the date, time and zone styles to \texttt{english} if the \texttt{userregional} setting is set to \texttt{text}. If the setting is \texttt{numeric} the default numeric style will be used as the lack of region makes it ambiguous.
4 English (GB)

The en-GB module is loaded if British English has been specified. This may be specified through options such as british, en-GB or UKenglish. (See the note on polyglossia in §1.)

This module defines the text style en-GB and the numeric style en-GB-numeric style. The en-GB style will automatically be set if the userregional option is set to text. The en-GB-numeric style will automatically be set if the userregional option is set to numeric.

The en-GB time style uses the base englishampm style.

There are a number of settings provided that can be used in \DTMlangsetup to modify the date-time style. These are:

dowdaysep The separator between the day of week name and the day of month number. This defaults to \space. Ignored if the showdow option is false.

daymonthsep The separator between the day and the month name in the en-GB style. This defaults to \space.

monthyearsep The separator between the month name and year in the en-GB style. This defaults to \space.

datesep The separator between the date numbers in the en-GB-numeric style. This defaults to / (slash).

timesep The separator between the hours and minutes in the en-GB-numeric style. This defaults to : (colon).

datetimesep The separator between the date and time for the full date-time format (as used by \DTMdisplay) for both the en-GB and en-GB-numeric styles. This defaults to \space.

timezonesep The separator between the time and zone for the full date-time format (as used by \DTMdisplay) for both the en-GB and en-GB-numeric styles. This defaults to \space.

abbr This is a boolean key. If true, the month (and week day name if shown) is abbreviated for the en-GB style. The default is false.

mapzone This is a boolean key. If true the time zone mappings are applied. (The default is true.) The en-GB and en-GB-numeric styles set the mappings GMT (UTC+0) and BST (UTC+1). Other time zone mappings that have previously been set (for example, by another regional style) will remain unchanged unless you redefine \DTMresetzones to reset or unset them.

ord This may take one of the following values: level (ordinal suffix level with
the number), raise (ordinal suffix as a superscript\textsuperscript{1}), omit (omit the ordinal suffix) and sc (small caps ordinal suffix). If you want a different style you can redefine $\textsf{DTMenGBfmtordsuffix}$ which takes one argument (the suffix). Take care if $\textsf{DTMenGBfmtordsuffix}$ contains fragile commands, as they will need to be protected against expansion.

$\textsf{showdayofmonth}$ A boolean key that determines whether or not to show the day of the month. The default value is true. If false the day-month separator is also omitted.

$\textsf{showyear}$ A boolean key that determines whether or not to show the year. The default value is true. If false the month-year separator is also omitted.

The above settings are specific to this module. In addition, the $\textsf{showdow}$ boolean option provided by the $\textsf{datetime2}$ package is also checked to determine whether or not to show the day of the week in the en-\textit{GB} style.

The time zone checks the $\textsf{mapzone}$ setting (described above). If it’s set, then $\textsf{DTMusezonemapordefault}$ is used otherwise a numeric (\texttt{TZH}\texttt{(sep)}\texttt{TZM}) is displayed. (The minute part will be omitted if the $\textsf{datetime2}$ package option $\textsf{showzoneminutes}$ is set to false. The zone style ignores the $\textsf{showisoZ}$ option.

5 English (US)

The en-\textit{US} module is loaded if US English has been specified. This may be done through options such as american, en-\textit{US} or USenglish. (See the note on polyglossia in \S 1.)

This module defines the styles en-\textit{US} and en-\textit{US-numeric}. There a number of settings that can be used in $\textsf{DTMlangsetup}$ to modify these styles. They are:

$\textsf{monthdaysep}$ The separator between the month name and the day in the en-\textit{US} style. The default is \texttt{\space}

$\textsf{dayyearsep}$ The separator between the day and the year in the en-\textit{US} style. The default is ,\texttt{\space}

$\textsf{dowmonthsep}$ The separator between the day-of-week name and the month name in the en-\textit{US} style. The default is \texttt{\space}. This is new to version 1.02, which now supports the $\textsf{showdow}$ package option.

$\textsf{datesep}$ The separator between the date numbers in the en-\textit{US-numeric} format.

\textsuperscript{1}Just in case you plan to send me an irate email on this issue, the superscript is a regional handwriting style not an invention of word processors although they have adopted the style. I was using this style in school in the 1970s before I’d ever heard of a word processor so please don’t tell me I’ve picked up the habit from Word. I’m not a time-traveller, nor were my primary school teachers—that I know of! If, conversely, you want to know why the default is level rather than raise, it’s because the main purpose of the $\textsf{datetime2}$ package is to provide an expandable text format and $\texttt{\textsuperscript{\textit{\texttt{textsuperscript}}}}$ isn’t expandable.
timesep The separator between the hour and minutes in the en-US-numeric format.

datetimesep The separator between the date and the time for the full style used by \DTMdisplay for the en-US and en-US-numeric. The default is \space

timezonesep The separator between the times and zone for the full style used by \DTMdisplay. The default is \space

abbr This is a boolean key. If true, the month is abbreviated. The default is false.

ord The same as the en-GB style except that the default value is omit.

showdayofmonth A boolean key that determines whether or not to show the day of the month. The default value is true. If false the day-year separator is also omitted.

showyear A boolean key that determines whether or not to show the year. The default value is true. If false the day-year separator is also omitted if the day of the month is shown otherwise both the day-year and month-day separators are omitted.

mapzone This is a boolean key. If true the time zone mappings are applied. (The default is false.) The en-US style sets the mappings ADT (utc−3), AST (utc−4), EST (utc−5), CST (utc−6), MST (utc−7) and PST (utc−8). If your want to use different mappings, you can redefine \DTMenUSzonemaps. Other time zone mappings that have previously been set (for example, by another regional style) will remain unchanged unless you redefine \DTMresetzones to reset or unset them.

zone (new to v1.03) As mentioned above, if the mapzone option is set, the time zone mappings are set using \DTMenUSzonemaps. This option can be used to both append to \DTMenUSzonemaps and set the new mappings. The zone option may take one of the following values:

- std or standard: set the standard time zone mappings AST (utc−4), EST (utc−5), CST (utc−6), MST (utc−7), PST (utc−8), AKST (utc−9), HAST (utc−10), SST (utc−10), ChST (utc+10).
- dst or daylight: set the daylight savings time zone mappings ADT (utc−3), EDT (utc−4), CDT (utc−6), MDT (utc−6), PDT (utc−7), AKDT (utc−8), HADT (utc−9).
- atlantic: set the Atlantic standard and daylight saving mappings AST (utc−4) and ADT (utc−3).
- eastern: set the Eastern standard and daylight saving mappings EST (utc−5) and EDT (utc−4).
- central: set the Central standard and daylight saving mappings CST (utc−6) and CDT (utc−5).
• mountain: set the Mountain standard and daylight saving mappings MST (UTC−7) and MDT (UTC−6).
• pacific: set the Pacific standard and daylight saving mappings PST (UTC−8) and PDT (UTC−7).
• alaska: set the Alaska standard and daylight saving mappings AKST (UTC−9) and AKDT (UTC−8).
• hawaii-aleutian or hawaii or aleutian: set the Hawaii-Aleutian standard and daylight saving mappings HAST (UTC−10) and HADT (UTC−9).
• samoa: set the Samoa Standard Time mapping SST (UTC−11).
• chamorro: set the Chamorro Standard Time mapping ChST (UTC−10).
• clear: redefines \DTMUseUSzonemaps to empty and clears the mappings (using \DTMclearmap) for UTC−3, UTC−4, UTC−5, UTC−6, UTC−7, UTC−8, UTC−9, UTC−10, UTC−11 and UTC+10.

Other existing mappings are unchanged. For example,

\DTMlangsetup[en-US]{zone=atlantic,zone=pacific}

will set the mappings AST (UTC−4), ADT (UTC−3), PST (UTC−8) and PDT (UTC−7). Any other time zone offset mappings that were previously set will remain the same. However:

\DTMlangsetup[en-US]{zone=atlantic,zone=eastern}

will result in the mappings ADT (UTC−3), EST (UTC−5) and EDT (UTC−4), since the EDT mapping will overwrite the AST mapping. Again, any other time zone offset mappings that were previously set remain the same.

Another example:

\DTMlangsetup[en-US]{zone=dst,zone=atlantic,zone=pacific}

This will first set the daylight saving mappings and then set the Atlantic mappings, which means that UTC−4 will now be mapped to AST instead of EDT, and then it will set the Pacific mappings, which means that UTC−8 will now be mapped to PST instead of AKDT.

The en-US time style uses the englishampm style. The en-US-numeric uses a 24 hour style. The time zone checks the mapzone setting (described above). If it’s set, then \DTMUsezonemapordefault is used otherwise a numeric ⟨TZH⟩:⟨TZM⟩ is displayed. (The minute part will be omitted if the datetime2 package option showzoneminutes is set to false. The zone style ignores the showisoZ option.)
6 English (CA)

The en-CA module is loaded if Canadian English has been specified. This may be done through options such as en-CA or canadian. (See the note on polyglossia in §1.)

This module provides the en-CA and en-CA-numeric styles that are virtually identical to the en-US and en-US-numeric style. These have the same options as for the US styles but the zone maps are provided by \DTMenCAzonemaps, which can be redefined as required. As from v1.03, there’s also a zone setting that works in a similar manner to the zone setting for the en-US module described above. For en-CA, the available values are:

- std or standard: set the standard time zone mappings NST (UTC−3:30), AST (UTC−4), EST (UTC−5), CST (UTC−6), MST (UTC−7), PST (UTC−8).
- dst or daylight: set the daylight savings time zone mappings NDT (UTC−2:30), ADT (UTC−3), EDT (UTC−4), CDT (UTC−5), MDT (UTC−6), PDT (UTC−7).
- newfoundland: set the Newfoundland standard and daylight saving mappings NST (UTC−3:30) and NDT (UTC−2:30).
- atlantic: set the Atlantic standard and daylight saving mappings AST (UTC−4) and ADT (UTC−3).
- eastern: set the Eastern standard and daylight saving mappings EST (UTC−5) and EDT (UTC−4).
- central: set the Central standard and daylight saving mappings CST (UTC−6) and CDT (UTC−5).
- mountain: set the Mountain standard and daylight saving mappings MST (UTC−7) and MDT (UTC−6).
- pacific: set the Pacific standard and daylight saving mappings PST (UTC−8) and PDT (UTC−7).
- clear: redefines \DTMenCAzonemaps to empty and clears the mappings (using \DTMclearmap) for UTC−2:30, UTC−3:30, UTC−3, UTC−4, UTC−5, UTC−6, UTC−7 and UTC−8.

For example, if you live in a region that doesn’t implement daylight saving:

\DTMlangsetup[en-CA]{zone=std}

7 English (AU)

The en-AU module is loaded if Australian English has been specified. This may be done through options such as en-AU or australian. (See the note on polyglossia in §1.)
This module provides the en-AU and en-AU-numeric styles that are virtually identical to the en-GB and en-GB-numeric styles. These have the same options as the GB styles (except that the default value of ord is omit rather than level and the default value of mapzone is false) but the zone maps are provided by \DTMEnAuzonemaps, which can be redefined as required. This doesn’t take all zones into account, but as from v1.03, there is now the zone option, which modifies \DTMEnAuzonemaps. This works in much the same way as for the en-US and en-CA options of the same name, described above. Available values for the en-AU module:

- **std** or **standard**: set the standard time zone mappings CCT (UTC+6:30), CXT (UTC+7), AWST (UTC+8), ACWST (UTC+8:45), ACST (UTC+9:30), AEST (UTC+10), LHST (UTC+10:30), NFT (UTC+11).
- **dst** or **daylight**: set the daylight savings time zone mappings AWDT (UTC+9), ACDT (UTC+10:30), AEDT (UTC+11). Note that conflicting zones are missing, such as LHDT (UTC+11) which coincides with AEDT.
- **central**: set the Australian Central standard and daylight saving mappings ACST (UTC+9:30) and ACDT (UTC+10:30).
- **central-western**: set the Australian Central Western Standard Time mapping ACWST (UTC+8:45).
- **western**: set the Australian Western standard and daylight saving mappings AWST (UTC+8) and AWDT (UTC+9).
- **eastern**: set the Australian Eastern standard and daylight saving mappings AEST (UTC+10) and AEDT (UTC+11).
- **christmas**: set the Christmas Island Time mapping CXT (UTC+7).
- **lord-howe**: set the Lord Howe Island standard and daylight saving mappings LHST (UTC+10:30) and LHDT (UTC+11).
- **norfolk**: set the Norfolk Island time mapping NFT (UTC+11).
- **cocos** or **keeling**: set the Cocos (Keeling) island time mapping CCT (UTC+6:30).
- **clear**: redefines \DTMEnAuzonemaps to empty and clears the mappings (using \DTMclearmap) for UTC+6:30, UTC+7, UTC+8, UTC+8:45, UTC+9, UTC+9:30, UTC+10, UTC+10:30, UTC+11.

Example:

\DTMlangsetup[en-AU]{zone=cocos,zone=christmas}
8 English (NZ)

The en-NZ module is loaded if New Zealand English has been specified. This may be done through options such as en-NZ or newzealand. (See the note on polyglossia in §1.)

This module provides the en-NZ and en-NZ-numeric styles that are virtually identical to the AU styles but the zone maps are provided by \DTMenNZzonemaps, which can be redefined as required. The default NZ mappings are NZST (utc+12), CHAST (utc+12:45), NZDT (utc+13), CHADT (utc+13:45).

9 English (GG)

The Guernsey English en-GG and en-GG-numeric styles are like the British English en-GB and en-GB-numeric styles, but replace enGB with enGG in the command names. This style can be loaded by using en-GG as a document class option or as a package option for either tracklang or datetime2.

10 English (JE)

The Jersey English en-JE and en-JE-numeric styles are like the British English en-GB and en-GB-numeric styles, but replace enGB with enJE in the command names. This style can be loaded by using en-JE as a document class option or as a package option for either tracklang or datetime2.

11 English (IM)

The Isle of Man en-IM and en-IM-numeric styles are like the British English en-GB and en-GB-numeric styles, but replace enGB with enIM in the command names. This style can be loaded by using en-IM as a document class option or as a package option for either tracklang or datetime2.

12 English (MT)

The Malta English en-MT and en-MT-numeric styles are like the British English en-GB and en-GB-numeric styles, but replace enGB with enMT in the command names. This style can be loaded by using en-MT as a document class option or as a package option for either tracklang or datetime2.

There are two main differences in the en-GB/en-GB-numeric and en-MT/en-MT-numeric styles: the ord option (for the text styles) defaults to omit and the CET (utc+1) and CEST (utc+2) time zone mappings are added (for both the text and numeric styles).
13 English (IE)

The Republic of Ireland English en-IE and en-IE-numeric styles are like the British English en-GB and en-GB-numeric styles, but replace enGB with enIE in the command names. This style can be loaded by using en-IE as a document class option or as a package option for either tracklang or datetime2. You will need at least version 1.2 of the tracklang package installed.

The only difference in the en-GB/en-GB-numeric and en-IE/en-IE-numeric styles is that the UTC+1 time zone is mapped to IST instead of BST. If you prefer WET/WEST time zones, you can do:

\renewcommand*{\DTMenIEzonemaps}{%
  \DTMdefzonemap{00}{00}{WET}%
  \DTMdefzonemap{01}{00}{WEST}%
}\%

For Irish Gaelic you need the irish module instead.

14 The Code

14.1 Base Code (datetime2-english-base.ldf)

This file contains the code common to all the English regional variations. Identify module

\ProvidesDateTimeModule{english-base}[2016/03/09 v1.04 (NLCT)]

Since the main emphasize of the datetime2 package is to provide expandable dates where possible, the commands here need to be expandable. (Anything that wasn’t expandable would need to be protected.) Therefore the default ordinal format is a simple expandable format (which is why fmtcount isn’t being used).

\DTMenglishordinal

\newcommand*{\DTMenglishordinal}{[1]}{%
  \number#1 \ % space intended
  \DTMenglishfmtordsuffix{%
    \ifcase#1 \or \DTMenglishst
    \or \DTMenglishnd
    \or \DTMenglishrd
    \or \DTMenglishth
    \or \DTMenglishth
    \or \DTMenglishth
    \or \DTMenglishth
    \or \DTMenglishth
    \or \DTMenglishth
    \or \DTMenglishth
    \or \DTMenglishth
    \or \DTMenglishth
    \or \DTMenglishth
    \or \DTMenglishth
    \or \DTMenglishth
    \or \DTMenglishth
    \or \DTMenglishth
  }%}
Just in case a user has some need to change the ordinal suffixes, these are provided as commands.

\DTMenglishth
\newcommand*{\DTMenglishth}{th}
\DTMenglishst
\newcommand*{\DTMenglishst}{st}
\DTMenglishnd
\newcommand*{\DTMenglishnd}{nd}
\DTMenglishrd
\newcommand*{\DTMenglishrd}{rd}
\DTMenglishfmtordsuffix
\newcommand*{\DTMenglishfmtordsuffix}{1}{\{}%
\DTMenglishmonthname
English month names.
\newcommand*{\DTMenglishmonthname}{1}{%\ifcase#1 \or January\%
\or February\%}
\DTMenglishshortmonthname \newcommand*{\DTMenglishshortmonthname}[1]{% 
\ifcase#1
\or Jan\% 
\or Feb\% 
\or Mar\% 
\or Apr\% 
\or May\% 
\or Jun\% 
\or Jul\% 
\or Aug\% 
\or Sep\% 
\or Oct\% 
\or Nov\% 
\or Dec\% 
\fi } Abbreviated English month names.
74 \newcommand*{\DTMenglishshortmonthname}[1]{% 
\ifcase#1
\or Jan\% 
\or Feb\% 
\or Mar\% 
\or Apr\% 
\or May\% 
\or Jun\% 
\or Jul\% 
\or Aug\% 
\or Sep\% 
\or Oct\% 
\or Nov\% 
\or Dec\% 
\fi }
\texttt{\textbackslash DTMenglishweekdayname} English day of week names.

\begin{verbatim}
\newcommand*{\DTMenglishweekdayname}{% 
  \ifcase#1 
  \or Monday\% 
  \or Tuesday\% 
  \or Wednesday\% 
  \or Thursday\% 
  \or Friday\% 
  \or Saturday\% 
  \or Sunday\% 
  \fi}
\end{verbatim}

\texttt{\textbackslash DTMenglishshortweekdayname} English abbreviated day of week names.

\begin{verbatim}
\newcommand*{\DTMenglishshortweekdayname}{% 
  \ifcase#1 
  Mon\% 
  \or Tue\% 
  \or Wed\% 
  \or Thu\% 
  \or Fri\% 
  \or Sat\% 
  \or Sun\% 
  \fi}
\end{verbatim}

12 hour time tags.

\texttt{\textbackslash DTMenglisham}

\begin{verbatim}
\newcommand*{\DTMenglisham}{am}\%
\end{verbatim}

\texttt{\textbackslash DTMenglishpm}

\begin{verbatim}
\newcommand*{\DTMenglishpm}{pm}\%
\end{verbatim}
\DTMenglishmidnight
137 newcommand*{\DTMenglishmidnight{\text{midnight}}}%

\DTMenglishnoon
138 newcommand*{\DTMenglishnoon{\text{noon}}}%

am/pm time style.

\DTMenglishampmfmt
139 newcommand*{\DTMenglishampmfmt[1]{\text{$##1$}}}%

\DTMenglishtimesep
140 newcommand*{\DTMenglishtimesep{\text{\texttt{\DTMsep{hourmin}}}}}%

This style ignores seconds.

\DTMnewtimestyle
141 \{englishampm\} label
142 {
143 \renewcommand*{\DTMdisplaytime[3]{{%
144 \ifnum#2=0
145 \ifnum#1=12
146 \DTMtexorpdfstring
147 {\DTMenglishampmfmt{\DTMenglishnoon}}%
148 \DTMenglishnoon%
149 \else
150 \else
151 \ifnum#1=0
152 \DTMtexorpdfstring
153 {\DTMenglishampmfmt{\DTMenglishmidnight}}%
154 \DTMenglishmidnight%
155 \else
156 \ifnum#1=24
157 \DTMtexorpdfstring
158 {\DTMenglishampmfmt{\DTMenglishmidnight}}%
159 \DTMenglishmidnight%
160 \else
161 \ifnum#1<12
162 \number#1
163 \DTMtexorpdfstring
164 {\DTMenglishampmfmt{\DTMenglisham}}%
165 \DTMenglisham%
166 \else
167 \number\numexpr#1-12\relax
168 \DTMtexorpdfstring
169 {\DTMenglishampmfmt{\DTMenglishpm}}%
170 \DTMenglishpm%
171 \fi
172 \fi
173 \fi
174 \fi

14.2 Default English Code (datetime2-english.ldf)

This file contains the style used if English is requested without a known region. It uses TeX’s default date style. This style ignores the \showdow (show day of week) setting.

Identify Module

\ProvidesDateTimeModule{english}[2016/03/09 v1.04 (NLCT)]

Load the base English module.

\RequireDateTimeModule{english-base}

Define default English text style (TeX’s default) labelled english. The time zone is just the default style (no mappings applied) but \showisoZ setting checked.
The full style places a space between each block (date, time and zone). The numeric setting is ambiguous without a region so it will use the default style.

\DTMnewstyle
{english}% label
{\% date style
\renewcommand*{\DTMenglishfmtordsuffix}[1]{}% 
\renewcommand{\DTMdisplaydate}[4]{%
 \DTMenglishmonthname{##2}\space\number##3, \number##1%
}%
\renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
}%
{\% time style
\renewcommand*{\DTMenglishtimesep}{\DTMsep{hourmin}}%
\DTMsettimestyle{englishampm}%
}%
{\% zone style
\DTMsetzonestyle{default}%
}%
{\% full style
\renewcommand*{\DTMdisplay}[9]{%
\ifDTMshowdate
\DTMdisplaydate{##1}{##2}{##3}{##4}%
\space
\fi
\DTMdisplaytime{##5}{##6}{##7}%
\ifDTMshowzone
\space
\DTMdisplayzone{##8}{##9}%
\fi
}%
\renewcommand*{\DTMdisplay}{\DTMdisplay}%
}%

Switch the style according to the userregional setting.
\DTMifcaseregional
{\% do nothing
\DTMsetstyle{english}%
\DTMsetstyle{default}%
}%

Redefine \dateenglish (or \date⟨dialect⟩) to prevent babel from resetting \today. (For this to work, babel must already have been loaded if it’s required.)
\ifsundef{date\CurrentTrackedDialect}
{%
\ifundef{dateenglish}
{\% do nothing
}%
}%
\def{dateenglish}{%
\DTMifcaseregional
}%
}
This file contains the British English style. Identify this module.

\ProvidesDateTimeModule{en-GB}[2016/03/09 v1.04 (NLCT)]

Load base English module.

Allow the user a way of configuring the en-GB and en-GB-numeric styles. This doesn’t use the package wide separators such as \dtm@datetimesep in case other date formats are also required.

\DTMenGBdowdaysep The separator between the day of week name and the day of month number for the text format.

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

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

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

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

\DTMenGBdatesep The separator for the numeric date format.

\DTMenGBtimesep The separator for the numeric time format.
Provide keys that can be used in \DTMlangsetup to set these separators.

\DTMdefkey{en-GB}{dowdaysep}{\renewcommand*{\DTMenGBdowdaysep}{#1}}
\DTMdefkey{en-GB}{daymonthsep}{\renewcommand*{\DTMenGBdaymonthsep}{#1}}
\DTMdefkey{en-GB}{monthyearsep}{\renewcommand*{\DTMenGBmonthyearsep}{#1}}
\DTMdefkey{en-GB}{datetimesep}{\renewcommand*{\DTMenGBdatetimesep}{#1}}
\DTMdefkey{en-GB}{timezonesep}{\renewcommand*{\DTMenGBtimezonesep}{#1}}
\DTMdefkey{en-GB}{datesep}{\renewcommand*{\DTMenGBdatesep}{#1}}
\DTMdefkey{en-GB}{timesep}{\renewcommand*{\DTMenGBtimesep}{#1}}

Define a boolean key that can switch between full and abbreviated formats for the month and day of week names in the text format.

\DTMdefboolkey{en-GB}{abbr}[true]{}
The default is the full name.
\DTMsetbool{en-GB}{abbr}{false}

Define a boolean key that determines if the time zone mappings should be used.
\DTMdefboolkey{en-GB}{mapzone}[true]{}
The default is to use mappings.
\DTMsetbool{en-GB}{mapzone}{true}

Define a boolean key that determines whether to show or hide the day of the month. (Called showdayofmonth instead of showday to avoid confusion with the day of the week.)
\DTMdefboolkey{en-GB}{showdayofmonth}[true]{}
The default is to show the day of the month.
\DTMsetbool{en-GB}{showdayofmonth}{true}

Define a boolean key that determines whether to show or hide the year.
\DTMdefboolkey{en-GB}{showyear}[true]{}
The default is to show the year.
\DTMsetbool{en-GB}{showyear}{true}

\DTMenGBfmtordsuffix Define the ordinal suffix to be used by this style.
\newcommand*{\DTMenGBfmtordsuffix}{[1][#1]}

Define a setting to change the ordinal suffix style.
\DTMdefchoicekey{en-GB}{ord}[/val\nr]{level,raise,omit,sc}{%
\ifcase\nr\relax
\renewcommand*{\DTMenGBfmtordsuffix}{[1][#1]}
\or
\renewcommand*{\DTMenGBfmtordsuffix}{[1]}%
\or\DTMtexorpdfstring{\protect\textsuperscript{#1}}{#1}{[1]}%
\or
\renewcommand*{\DTMenGBfmtordsuffix}{[1]}%
\or
\renewcommand*{\DTMenGBfmtordsuffix}{[1]}%
\DTMtexorpdfstring{\protect\textsc{#1}}{#1}{[1]}%}
\fi
}

Define the en-GB style.
\DTMnewstyle
{en-GB}{% label
{% date style
\renewcommand*{\DTMenglishfmtordsuffix}{\DTMenGBfmtordsuffix}\
\renewcommand*{\DTMdisplaydate}[4]{%\
    \ifDTMshowdow\
        \ifnum##4>-1\
            \DTMifbool{en-GB}{abbr}\
                \{\DTMenglishshortweekdayname{##4}\}\
            \{\DTMenglishweekdayname{##4}\}\
        \fi\
    \fi\
    \DTMifbool{en-GB}{showdayofmonth}\
        \DTMenglishordinal{##3}\
    \DTMenGBdowdaysep\
}\fi\
\DTMifbool{en-GB}{showdayofmonth}\
    \DTMenglishordinal{##3}\
\DTMenGBdaymonthsep\
}\fi\
\DTMifbool{en-GB}{showyear}\
    \DTMenGBmonthyearsep\number##1 % space intended\
\DTMsettimestyle{englishampm}\
\DTMdisplayzone}[2]{%\
    \DTMifbool{en-GB}{mapzone}\
        \DTMusezonemapordefault{##1}{##2}\
    \else\
        \DTMtwodigits{##1}\
        \ifDTMshowzoneminutes\DTMenGBtimesep\DTMtwodigits{##2}\fi\
    \fi\
}\DTMsettimestyle{englishampm}\
\DTMresetzones\
\DTMenGBzonemaps\
\renewcommand*{\DTMdisplayzone}[2]{%\
    \DTMresetzones\
\DTMenGBzonemaps\
\renewcommand*{\DTMdisplayzone}[2]{%\
    \DTMresetzones\
\DTMenGBzonemaps
\renewcommand*{\DTMdisplay}{\DTMdisplay}\%  
\renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}\%  
\DTMnewstyle\% label  
\DTMnewstyle{en-GB-numeric}\% label  
\renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}\%  
\DTMnewstyle\% date style  
\DTMnewstyle\% time style  
\DTMnewstyle\% zone style
\ifnum##1<0\else+\fi\DTMtwodigits{##1}\%
\ifDTMshowzoneminutes\DTMenGBtimesep\DTMtwodigits{##2}\fi
\}
\renewcommand*{\DTMdisplay}{[9]
\ifDTMshowdate
\DTMdisplaydate{##1}{##2}{##3}{##4}\%
\DTMenGBdatetimesep
\fi
\DTMdisplaytime{##5}{##6}{##7}\%
\ifDTMshowzone
\DTMenGBtimezonesep
\DTMdisplayzone{##8}{##9}\%
\fi
\}
\renewcommand*{\DTMDisplay}{\DTMdisplay}
}
\DTMenGBzonemaps

The time zone mappings are set through this command, which can be redefined if extra mappings are required or mappings need to be removed.
\newcommand*{\DTMenGBzonemaps}{%
\DTMdefzonemap{00}{00}{GMT}\%
\DTMdefzonemap{01}{00}{BST}\%
\}

Switch style according to the \userregional setting.
\DTMifcaseregional
\% do nothing
\DTMsetstyle{en-GB}\%
\DTMsetstyle{en-GB-numeric}\%

Redefine \dateenglish (or \date\langle dialect\rangle) to prevent babel from resetting \today. (For this to work, babel must already have been loaded if it’s required.)
\ifcsundef{date\CurrentTrackedDialect}
\% do nothing
\ifdef\dateenglish
\%
23
440 \csdef{date\CurrentTrackedDialect}{%
441 \DTMifcaseregional
442 {}% do nothing
443 {\DTMsetstyle{en-GB}}%
444 {\DTMsetstyle{en-GB-numeric}}%
445 }
446 %

14.4 English (US) Code (datetime2-en-US.ldf)

This file contains the US English style.

Identify this module.
447 \ProvidesDateTimeModule{en-US}[2016/03/09 v1.04 (NLCT)]
Load base English module.
448 \RequireDateTimeModule{english-base}

Allow the user a way of configuring the en-US date format. This doesn’t use the package wide separators such as \dtm@datetimesep in case other date formats are also required.

\DTMenUSmonthdaysep The separator between the month and day for the text format.
449 \newcommand*{\DTMenUSmonthdaysep}{\space}

\DTMenUSdowmonthsep The separator between the day of week name and the month for the text format.
(New to version 1.02.)
450 \newcommand*{\DTMenUSdowmonthsep}{\space}

\DTMenUSdayyearsep The separator between the day and year for the text format.
451 \newcommand*{\DTMenUSdayyearsep}{,\space}

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

\DTMenUSTimezonesep The separator between the time and zone blocks in the full format (either text or numeric).
453 \newcommand*{\DTMenUSTimezonesep}{\space}

\DTMenUSdatesep The separator for the numeric date format.
454 \newcommand*{\DTMenUSdatesep}{/}

\DTMenUSTimesep The separator for the numeric time format.
455 \newcommand*{\DTMenUSTimesep}{:}

Provide keys that can be used in \DTMlangsetup to set these separators.
456 \DTMdefkey{en-US}{monthdaysep}{\renewcommand*{\DTMenUSmonthdaysep}{#1}}
457 \DTMdefkey{en-US}{dowmonthsep}{\renewcommand*{\DTMenUSdowmonthsep}{#1}}
458 \DTMdefkey{en-US}{dayyearsep}{\renewcommand*{\DTMenUSdayyearsep}{#1}}
Define a boolean key that can switch between full and abbreviated formats for the month and day of week names in the text format.

\DTMdefboolkey{en-US}{abbr}[true]{}

The default is the full name.

\DTMsetbool{en-US}{abbr}{false}

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

\DTMdefboolkey{en-US}{mapzone}[true]{}

The default is no mappings.

\DTMsetbool{en-US}{mapzone}{false}

Define a boolean key that determines whether to show or hide the day of the month. (Called showdayofmonth instead of showday to avoid confusion with the day of the week.)

\DTMdefboolkey{en-US}{showdayofmonth}[true]{}

The default is to show the day of the month.

\DTMsetbool{en-US}{showdayofmonth}{true}

Define a boolean key that determines whether to show or hide the year.

\DTMdefboolkey{en-US}{showyear}[true]{}

The default is to show the year.

\DTMsetbool{en-US}{showyear}{true}

\DTMenUSfmtordsuffix

Define the ordinal suffix to be used by this style.

\newcommand*{\DTMenUSfmtordsuffix}[1]{}

Define a setting to change the ordinal suffix style.

\DTMdefchoicekey{en-US}{ord}[/val\nr]{level,raise,omit,sc}{%
  \ifcase\nr\relax
  \renewcommand*{\DTMenUSfmtordsuffix}[1]{##1}%
  \or
  \renewcommand*{\DTMenUSfmtordsuffix}[1]{%\
    \DTMtexorpdfstring{\protect\textsuperscript{##1}}{##1}}%
  \or
  \renewcommand*{\DTMenUSfmtordsuffix}[1]{}%
  \or
  \renewcommand*{\DTMenUSfmtordsuffix}[1]{%\
    \DTMtexorpdfstring{\protect\textsc{##1}}{##1}}%
  \fi
  \}
}
Define a setting to change zone mappings.

```latex
\DTMdefchoicekey[en-US]{zone}[val]{\val\nr}[
{std,standard,dst,daylight,atlantic,eastern,central,mountain,\
pacific,alaska,hawaii-aleutian,hawaii,aleutian,samoa,charmorro,clear}]
\%}
\ifcase\nr\relax
\% std
\appto\DTMenUSzonemaps{\DTMenUSstdzonemaps}\%
\DTMenUSstdzonemaps
\or
\% standard
\appto\DTMenUSzonemaps{\DTMenUSstdzonemaps}\%
\DTMenUSstdzonemaps
\or
\% dst
\appto\DTMenUSzonemaps{\DTMenUSdstzonemaps}\%
\DTMenUSdstzonemaps
\or
\% daylight
\appto\DTMenUSzonemaps{\DTMenUSdstzonemaps}\%
\DTMenUSdstzonemaps
\or
\% atlantic
\appto\DTMenUSzonemaps{\DTMenUSatlanticzonemaps}\%
\DTMenUSatlanticzonemaps
\or
\% eastern
\appto\DTMenUSzonemaps{\DTMenUSEasternzonemaps}\%
\DTMenUSEasternzonemaps
\or
\% central
\appto\DTMenUSzonemaps{\DTMenUScentralzonemaps}\%
\DTMenUScentralzonemaps
\or
\% mountain
\appto\DTMenUSzonemaps{\DTMenUSmountainzonemaps}\%
\DTMenUSmountainzonemaps
\or
\% pacific
\appto\DTMenUSzonemaps{\DTMenUSpacificzonemaps}\%
\DTMenUSpacificzonemaps
\or
\% alaska
\appto\DTMenUSzonemaps{\DTMenUSalaskazonemaps}\%
\DTMenUSalaskazonemaps
\or
\% hawaii-aleutian
\appto\DTMenUSzonemaps{\DTMenUShawaiialeutianzonemaps}\%
\DTMenUShawaiialeutianzonemaps
```
Define the \textit{en-US} style. Hiding the day of month is a bit awkward as the default day-year separator has a comma that should disappear if the day number is missing so the month-day separator is used as the month-year separator if the day is missing.

\begin{verbatim}
\DTMnewstyle{en-US}% label
\% date style
\renewcommand*{\DTMenglishfmtordsuffix}{\DTMenUSfmtordsuffix}%
\renewcommand*{\DTMdisplaydate[4]}{
Support for \texttt{showdow} added in v1.02 (thanks to Alan Munn).}
\end{verbatim}
\DTMenUS timezone
\DTMdisplayzone{\#8}{\#9}\%
\fi
\renewcommand*{\DTMDisplay}{\DTMdisplay}\%

Define numeric style.
\DTMnewstyle
\{en-US-numeric\}% label
\{% date style
\renewcommand*{\DTMdisplaydate}[4]{%
  \number{##2} % space intended
  \DTMifbool{en-US}{showdayofmonth}{% \DTMenUSdatesep
  \number{##3} % space intended
  {}%
  \DTMifbool{en-US}{showyear}{%
  \DTMenUSdatesep
  \number{##1} % space intended
  %}
  %}
\renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
%
\renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
%
\renewcommand*{\DTMdisplaytime}[3]{%
  \number{##1}
  \DTMenUStimesep\DTMtwodigits{##2}\%
  \ifDTMshowseconds\DTMenUStimesep\DTMtwodigits{##3}\fi
}
%
%
\{% zone style
\DTMresetzones
\DTMenUSzonemaps
\renewcommand*{\DTMdisplayzone}[2]{%
  \DTMifbool{en-US}{mapzone}{%
    \DTMenusezonemapdefault{##1}{##2}%
  %
  %}
  \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
  \ifDTMshowzoneminutes\DTMenUStimesep\DTMtwodigits{##2}\fi
}
%
%
\{% full style
\renewcommand*{\DTMdisplay}[9]{%
  \ifDTMshowdate
  \DTMshowdate\%
  \DTMshowmonth{##1}:%\DTMshowdayofmonth{##2} % space intended
  \DTMifbool{en-US}{showyear}{%
  \DTMshowyear{##1} % space intended
  %}
  %}
\fi

\DTMenUSzonemaps The time zone mappings are set through this command, which can be redefined if extra mappings are required or mappings need to be removed. (These don’t take daylight saving into account.)

\newcommand*{\DTMenUSzonemaps}{% 
  \DTMdefzonemap{-3}{00}{ADT} 
  \DTMdefzonemap{-4}{00}{AST} 
  \DTMdefzonemap{-5}{00}{EST} 
  \DTMdefzonemap{-6}{00}{CST} 
  \DTMdefzonemap{-7}{00}{MST} 
  \DTMdefzonemap{-8}{00}{PST} 
  \DTMdefzonemap{-9}{00}{AKST} 
  \DTMdefzonemap{-10}{00}{HAST} 
  \DTMdefzonemap{-11}{00}{SST} 
  \DTMdefzonemap{10}{00}{ChST} 
}%

\DTMenUSstdzonemaps Just the standard time zone mappings.

\newcommand*{\DTMenUSstdzonemaps}{% 
  \DTMdefzonemap{-4}{00}{AST} 
  \DTMdefzonemap{-5}{00}{EST} 
  \DTMdefzonemap{-6}{00}{CST} 
  \DTMdefzonemap{-7}{00}{MST} 
  \DTMdefzonemap{-8}{00}{PST} 
  \DTMdefzonemap{-9}{00}{AKST} 
  \DTMdefzonemap{-10}{00}{HAST} 
  \DTMdefzonemap{-11}{00}{SST} 
  \DTMdefzonemap{10}{00}{ChST} 
}%

\DTMenUSdstzonemaps Just daylight saving mappings.

\newcommand*{\DTMenUSdstzonemaps}{% 
  \DTMdefzonemap{-3}{00}{ADT} 
  \DTMdefzonemap{-4}{00}{EDT} 
  \DTMdefzonemap{-5}{00}{CDT} 
  \DTMdefzonemap{-6}{00}{MDT} 
  \DTMdefzonemap{-7}{00}{PDT} 
  \DTMdefzonemap{-8}{00}{AKDT} 
  \DTMdefzonemap{-9}{00}{HADT} 
}%

\DTMenUSatlanticzonemaps Just the Atlantic zone mappings (AST and ADT).
\newcommand*{\DTMenUSatlanticzonemaps}{%\DTMdefzonemap{-4}{00}{AST}\DTMdefzonemap{-3}{00}{ADT}\}}
\DTMenUSeasternzonemaps\ Just the Eastern zone mappings (EST and EDT).
\newcommand*{\DTMenUSeasternzonemaps}{%\DTMdefzonemap{-5}{00}{EST}\DTMdefzonemap{-4}{00}{EDT}\}}
\DTMenUScentralzonemaps\ Just the Central zone mappings (CST and CDT).
\newcommand*{\DTMenUScentralzonemaps}{%\DTMdefzonemap{-6}{00}{CST}\DTMdefzonemap{-5}{00}{CDT}\}}
\DTMenUSmountainzonemaps\ Just the Mountain zone mappings (MST and MDT).
\newcommand*{\DTMenUSmountainzonemaps}{%\DTMdefzonemap{-7}{00}{MST}\DTMdefzonemap{-6}{00}{MDT}\}}
\DTMenUSpacificzonemaps\ Just the Pacific zone mappings (PST and PDT).
\newcommand*{\DTMenUSpacificzonemaps}{%\DTMdefzonemap{-8}{00}{PST}\DTMdefzonemap{-7}{00}{PDT}\}}
\DTMenUSalaskazonemaps\ Just the Alaska zone mappings (AKST and AKDT).
\newcommand*{\DTMenUSalaskazonemaps}{%\DTMdefzonemap{-9}{00}{AKST}\DTMdefzonemap{-8}{00}{AKDT}\}}
\DTMenUShawaiialeutianzonemaps\ Just the Hawaii-Aleutian zone mappings (HAST and HADT).
\newcommand*{\DTMenUShawaiialeutianzonemaps}{%\DTMdefzonemap{-10}{00}{HAST}\DTMdefzonemap{-9}{00}{HADT}\}}
\DTMenUSsamoazonemaps\ Just the Samoa standard time (SST).
\newcommand*{\DTMenUSsamoazonemaps}{%\DTMdefzonemap{-11}{00}{SST}\}}
\DTMenUSchamorrozonemaps\ Just the Chamorro standard time (ChST).
\newcommand*{\DTMenUSchamorrozonemaps}{%\DTMdefzonemap{10}{00}{ChST}\}}
Switch style according to the user\textit{regional} setting.

\DTMifcaseregional
{}% do nothing
\DTMsetstyle{en-US}%
\DTMsetstyle{en-US-numeric}%

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

\ifcsundef{date\CurrentTrackedDialect}{% do nothing
\ifundef{dateenglish}{%}
\def{dateenglish}{%}
\DTMifcaseregional
{}% do nothing
\DTMsetstyle{en-US}%
\DTMsetstyle{en-US-numeric}%
}
\csdef{date\CurrentTrackedDialect}{%}
\DTMifcaseregional
{}% do nothing
\DTMsetstyle{en-US}%
\DTMsetstyle{en-US-numeric}%
}
\ProvidesDateTimeModule{en-CA}[2016/03/09 v1.04 (NLCT)]

This file contains the Canadian English style. This is very similar to the US style.

Identify this module.

\RequireDateTimeModule{english-base}

Allow the user a way of configuring the en-CA and en-CA-numeric formats. This doesn’t use the package wide separators such as \texttt{\~{}dtm@datetimesep} in case other date formats are also required.

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

\DTMenCADowmonthsep The separator between the day of week name and the month for the text format.
(New to version 1.02.)
\newcommand*{\DTMenCADowmonthsep}{\space}
\texttt{\DTMenCAdayyearsep} The separator between the day and year for the text format.
\begin{verbatim}
\newcommand*{\DTMenCAdayyearsep}{, \space}
\end{verbatim}
\texttt{\DTMenCAdatetimesep} The separator between the date and time blocks in the full format (either text or numeric).
\begin{verbatim}
\newcommand*{\DTMenCAdatetimesep}{\space}
\end{verbatim}
\texttt{\DTMenCAtimezonesep} The separator between the time and zone blocks in the full format (either text or numeric).
\begin{verbatim}
\newcommand*{\DTMenCAtimezonesep}{\space}
\end{verbatim}
\texttt{\DTMenCAdatesep} The separator for the numeric date format.
\begin{verbatim}
\newcommand*{\DTMenCAdatesep}{/}
\end{verbatim}
\texttt{\DTMenCAtimesep} The separator for the numeric time format.
\begin{verbatim}
\newcommand*{\DTMenCAtimesep}{:}
\end{verbatim}

Provide keys that can be used in \texttt{\DTMlangsetup} to set these separators.
\begin{verbatim}
\DTMdefkey{en-CA}{monthdaysep}{\renewcommand*{\DTMenCAmonthdaysep}{#1}}
\DTMdefkey{en-CA}{dowmonthsep}{\renewcommand*{\DTMenCAdowmonthsep}{#1}}
\DTMdefkey{en-CA}{dayyearsep}{\renewcommand*{\DTMenCAdayyearsep}{#1}}
\DTMdefkey{en-CA}{datetimesep}{\renewcommand*{\DTMenCAdatetimesep}{#1}}
\DTMdefkey{en-CA}{timezonesep}{\renewcommand*{\DTMenCAtimezonesep}{#1}}
\DTMdefkey{en-CA}{datesep}{\renewcommand*{\DTMenCAdatesep}{#1}}
\DTMdefkey{en-CA}{timesep}{\renewcommand*{\DTMenCAtimesep}{#1}}
\end{verbatim}

Define a boolean key that can switch between full and abbreviated formats for the month and day of week names in the text format.
\begin{verbatim}
\DTMdefboolkey{en-CA}{abbr}[true]{}
\end{verbatim}
The default is the full name.
\begin{verbatim}
\DTMsetbool{en-CA}{abbr}{false}
\end{verbatim}

Define a boolean key that determines if the time zone mappings should be used.
\begin{verbatim}
\DTMdefboolkey{en-CA}{mapzone}[true]{}
\end{verbatim}
The default is no mappings.
\begin{verbatim}
\DTMsetbool{en-CA}{mapzone}{false}
\end{verbatim}

Define a boolean key that determines whether to show or hide the day of the month. (Called \texttt{showdayofmonth} instead of \texttt{showday} to avoid confusion with the day of the week.)
\begin{verbatim}
\DTMdefboolkey{en-CA}{showdayofmonth}[true]{}
\end{verbatim}
The default is to show the day of the month.
\begin{verbatim}
\DTMsetbool{en-CA}{showdayofmonth}{true}
\end{verbatim}

Define a boolean key that determines whether to show or hide the year.
\begin{verbatim}
\DTMdefboolkey{en-CA}{showyear}[true]{}
\end{verbatim}
The default is to show the year.

\DTMsetbool{en-CA}{showyear}{true}

\DTMenCAfmtordsuffix Define the ordinal suffix to be used by this style.

\newcommand*{\DTMenCAfmtordsuffix}[1]{}

Define a setting to change the ordinal suffix style.

\DTMdefchoicekey{en-CA}{ord}[\val
r]{level,raise,omit,sc}{% % ifcase\nr\relax
800 \ifcase\nr\relax
801 \or
802 \renewcommand*{\DTMenCAfmtordsuffix}[1]{% % \DTMtexorpdfstring{\protect\textsuperscript{##1}}{##1}}%
804 \or
805 \renewcommand*{\DTMenCAfmtordsuffix}[1]{% % \DTMtexorpdfstring{\protect\textsc{##1}}{##1}}%
809 \fi
810 }

Define a setting to change zone mappings.

\DTMdefchoicekey{en-CA}{zone}[\val
r]{std,standard,dst,daylight,newfoundland,atlantic,eastern,central,mountain,%
813 pacific,clear}%
815 \ifcase\nr\relax
816 \if std
817 \appto\DTMenCAzonemaps{\DTMenCAsdzonemaps}%
818 \DTMenCAsdzonemaps
819 \or
820 \if standard
821 \appto\DTMenCAzonemaps{\DTMenCAsdzonemaps}%
822 \DTMenCAsdzonemaps
823 \or
824 \if dst
825 \appto\DTMenCAzonemaps{\DTMenCAdtzonemaps}%
826 \DTMenCAdtzonemaps
827 \or
828 \if daylight
829 \appto\DTMenCAzonemaps{\DTMenCAdtzonemaps}%
830 \DTMenCAdtzonemaps
831 \or
832 \if newfoundland
833 \appto\DTMenCAzonemaps{\DTMenCAnewfoundlandzonemaps}%
834 \DTMenCAnewfoundlandzonemaps
835 \or
836 \if atlantic
837 \appto\DTMenCAzonemaps{\DTMenCAatlanticzonemaps}%
838 \DTMenCAatlanticzonemaps

34
\or
\% eastern
\appto\DTMenCAzonemaps{\DTMenCAeasternzonemaps}%
\DTMenCAeasternzonemaps
\or
\% central
\appto\DTMenCAzonemaps{\DTMenCAcentralzonemaps}%
\DTMenCAcentralzonemaps
\or
\% mountain
\appto\DTMenCAzonemaps{\DTMenCAMountainzonemaps}%
\DTMenCAMountainzonemaps
\or
\% pacific
\appto\DTMenCAzonemaps{\DTMenCAPacificzonemaps}%
\DTMenCAPacificzonemaps
\or
\% clear
\renewcommand*{\DTMenCAzonemaps}{}%
\DTMclearmap{-2}{30}%
\DTMclearmap{-3}{30}%
\DTMclearmap{-3}{0}%
\DTMclearmap{-4}{0}%
\DTMclearmap{-5}{0}%
\DTMclearmap{-6}{0}%
\DTMclearmap{-7}{0}%
\DTMclearmap{-8}{0}%
\fi
}

Define the en-CA style (similar to en-US).
\DTMnewstyle
\{en-CA\} % label
\% date style
\renewcommand*{\DTMenglishfmtordsuffix}{\DTMenCAfmtordsuffix}%
\renewcommand*{\DTMdisplaydate}[4]{%}
\ifDTMshowdow
\ifnum##4>-1 % space intended
\DTMifbool{en-CA}{abbr}%
{\DTMenglishshortweekdayname{##4}}%
{\DTMenglishweekdayname{##4}}%
\DTMenCAdowmonthsep
\DTMenCADowmonthsep
\fi
\fi
\fi
\DTMifbool{en-CA}{abbr}%
{\DTMenglishshortmonthname{##2}}%
{\DTMenglishmonthname{##2}}%
\DTMenCAdowmonthsep
\%
\DTMenCAmonthdaysep
\DTMenCAdayyearsep
\DTMifbool{en-CA}{showyear}%
{%
    \number##1 % intended
}{%
}\DTMifbool{en-CA}{showyear}%
{%
    \DTMenCAmonthdaysep
    \number##1 % intended
}{%}
{%
\DTMifbool{en-CA}{showyear}%
{%
    \DTMenCAmonthdaysep
    \number##1 % intended
}{%}
\renewcommand*{\DTMDisplaydate}[4]{\DTMDisplaydate{##1}{##2}{##3}{##4}}%
\renewcommand*{\DTMDisplay}{\DTMDisplay}%
\renewcommand*{\DTMDisplaytime}{\DTMDisplaytime}%
\renewcommand*{\DTMDisplayzone}{\DTMDisplayzone}%
\renewcommand*{\DTMDisplayzone}[2][]{%}
\DTMsettimestyle{englishampm}%
\DTMenCAonemaps
\ifnum##1<0\else+\fi\DTMtwodigits{##1}%
\ifDTMshowzoneminutes\DTMenCAtimezonesep\DTMtwodigits{##2}\fi
\DTMresetzones
\DTMenCAonemaps
\ifDTMshowdate\DTMDisplaydate{##1}{##2}{##3}{##4}\
\fi
\DTMenCAtimetimesep
\ifDTMshowtime\DTMDisplaytime{##5}{##6}{##7}\
\fi
\fi
\DTMDisplayzone{##8}{##9}\
\fi
\DTMDisplayzone{##8}{##9}%
\DTMReset zones
\ifDTMshowtime\DTMDisplaytime{##5}{##6}{##7}\
\fi
\DTMDisplayzone{##8}{##9}\
\fi
\ifDTMshowdate\DTMDisplaydate{##1}{##2}{##3}{##4}\
\fi
\DTMenCAtimetimesep
\ifDTMshowzone\DTMDisplayzone{##8}{##9}\
\fi
\DTMReset zones
\ifDTMshowtime\DTMDisplaytime{##5}{##6}{##7}\
\fi
\DTMDisplayzone{##8}{##9}\
\fi
\ifDTMshowdate\DTMDisplaydate{##1}{##2}{##3}{##4}\
\fi
\DTMenCAtimetimesep
\ifDTMshowzone\DTMDisplayzone{##8}{##9}\
\fi
\DTMReset zones
\ifDTMshowtime\DTMDisplaytime{##5}{##6}{##7}\
\fi
\DTMDisplayzone{##8}{##9}\
\fi
Define numeric style.

\DTMnewstyle

\{en-CA-numeric\}

\% date style

\renewcommand*{\DTMdisplaydate}[4]{% 
\number##2 \% space intended 
\DTMifbool{en-CA}{showdayofmonth}\%
{%
\DTMenCAdatesep
\number##3 \% space intended

}
{%
\DTMenCA{showyear}\%

{%
\DTMenCAdatesep
\number##1 \% space intended

}
{%
\renewcommand*{\DTMdisplaydate}{\DTMdisplaydate{##1}{##2}{##3}{##4}}%

}}%

\% time style

\renewcommand*{\DTMdisplaytime}[3]{% 
\number##1 
\DTMenCAtimesep\DTMtwodigits{##2} 
\ifDTMshowseconds\DTMenCA{\DTMtwodigits{##3}}\fi
}
}

\% zone style

\DTMresetzones \DTMenCAzonemaps
\renewcommand*{\DTMdisplayzone}[2]{% 
\DTMifbool{en-CA}{mapzone}{% 
\ifnum##1<0\else+\fi\DTMtwodigits{##1}\%
\DTMenCA{\ifDTMshowzoneminutes\DTMtwodigits{##2}\fi}
}
}

\% full style

\renewcommand*{\DTMdisplay}[9]{% 
\ifDTMshowdate
\DTMdisplaydate{##1}{##2}{##3}{##4}\%
\DTMenCAdatetimesep
\fi

\DTMdisplaytime{##5}{##6}{##7}\%
\ifDTMshowzone
\DTMenCA{timezonesep}

\}}
The time zone mappings are set through this command, which can be redefined if extra mappings are required or mappings need to be removed. (These don’t take daylight saving into account, except for NDT.)

```latex
\newcommand*{\DTMenCAzonemaps}{% 
  \DTMdefzonemap{-2}{30}{NDT}% 
  \DTMdefzonemap{-3}{30}{NST}% 
  \DTMdefzonemap{-4}{00}{AST}% 
  \DTMdefzonemap{-5}{00}{EST}% 
  \DTMdefzonemap{-6}{00}{CST}% 
  \DTMdefzonemap{-7}{00}{MST}% 
  \DTMdefzonemap{-8}{00}{PST}% 
}\DTMenCAzonemaps
```

```
\newcommand*{\DTMenCAstdzonemaps}{% 
  \DTMdefzonemap{-3}{30}{NST}% 
  \DTMdefzonemap{-4}{00}{AST}% 
  \DTMdefzonemap{-5}{00}{EST}% 
  \DTMdefzonemap{-6}{00}{CST}% 
  \DTMdefzonemap{-7}{00}{MST}% 
  \DTMdefzonemap{-8}{00}{PST}% 
}\DTMenCAstdzonemaps
```

```
\newcommand*{\DTMenCAdstzonemaps}{% 
  \DTMdefzonemap{-2}{30}{NDT}% 
  \DTMdefzonemap{-3}{00}{ADT}% 
  \DTMdefzonemap{-4}{00}{EDT}% 
  \DTMdefzonemap{-5}{00}{CDT}% 
  \DTMdefzonemap{-6}{00}{MDT}% 
  \DTMdefzonemap{-7}{00}{PDT}% 
}\DTMenCAdstzonemaps
```

```
\newcommand*{\DTMenCAnewfoundlandzonemaps}{% 
  \DTMdefzonemap{-3}{30}{NST}% 
  \DTMdefzonemap{-2}{30}{NDT}% 
}\DTMenCAnewfoundlandzonemaps
```

```
\newcommand*{\DTMenCAatlanticzonemaps}{% 
  \DTMdefzonemap{-4}{00}{AST}% 
  \DTMdefzonemap{-3}{00}{ADT}% 
}\DTMenCAatlanticzonemaps
```

```
\newcommand*{\DTMenCAnewfoundlandzonemaps}{% 
  \DTMdefzonemap{-3}{30}{NST}% 
  \DTMdefzonemap{-2}{30}{NDT}% 
}\DTMenCAnewfoundlandzonemaps
```

```
\newcommand*{\DTMenCAatlanticzonemaps}{% 
  \DTMdefzonemap{-4}{00}{AST}% 
  \DTMdefzonemap{-3}{00}{ADT}% 
}\DTMenCAatlanticzonemaps
```
\DTMenCAeasternzonemaps Just the Eastern zone mappings (EST and EDT).
\newcommand*{\DTMenCAeasternzonemaps}{%
\DTMdefzonemap{-5}{00}{EST}\
\DTMdefzonemap{-4}{00}{EDT}%
}\DTMenCAeasternzonemaps

\DTMenCAcentralzonemaps Just the Central zone mappings (CST and CDT).
\newcommand*{\DTMenCAcentralzonemaps}{%
\DTMdefzonemap{-6}{00}{CST}\
\DTMdefzonemap{-5}{00}{CDT}%
}\DTMenCAcentralzonemaps

\DTMenCAMountainzonemaps Just the Mountain zone mappings (MST and MDT).
\newcommand*{\DTMenCAMountainzonemaps}{%
\DTMdefzonemap{-7}{00}{MST}\
\DTMdefzonemap{-6}{00}{MDT}%
}\DTMenCAMountainzonemaps

\DTMenCAPacificzonemaps Just the Pacific zone mappings (PST and PDT).
\newcommand*{\DTMenCAPacificzonemaps}{%
\DTMdefzonemap{-8}{00}{PST}\
\DTMdefzonemap{-7}{00}{PDT}%
}\DTMenCAPacificzonemaps

Switch style according to the \useregional setting.
\DTMifcaseregional
\DTMsetstyle{en-CA}%
\DTMsetstyle{en-CA-numeric}%
Redefine \dateenglish (or \date\langle dialect\rangle) to prevent babel from resetting \today. (For this to work, babel must already have been loaded if it’s required.)
\ifcsundef{date\CurrentTrackedDialect}{% do nothing
\ifundef\dateenglish{%
\def\dateenglish{%
\DTMifcaseregional
\DTMsetstyle{en-CA}%
\DTMsetstyle{en-CA-numeric}%
}%
}%
\csdef{date\CurrentTrackedDialect}{%}
\DTMifcaseregional

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14.6 English (Australia) Code (datetime2-en-AU.ldf)

This file contains the Australian English style.

Identify this module.
\ProvidesDateTimeModule{en-AU}[2016/03/09 v1.04 (NLCT)]

Load base English module.
\RequireDateTimeModule{english-base}

Allow the user a way of configuring the en-AU and en-AU-numeric styles. This
doesn’t use the package wide separators such as \tm@datetimesep in case other
date formats are also required.

\DTMnAUdowdaysep The separator between the day of week name and the day of month number for
the text format.
\newcommand*{\DTMnAUdowdaysep}{\space}

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

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

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

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

\DTMnAUDatesep The separator for the numeric date format.
\newcommand*{\DTMnAUDatesep}{/}

\DTMnAУimesep The separator for the numeric time format.
\newcommand*{\DTMnAУimesep}{:}

Provide keys that can be used in \DTMlangsetup to set these separators.
\DTMdefkey{en-AU}{dowdaysep}{\renewcommand*{\DTMnAUdowdaysep}{#1}}
\DTMdefkey{en-AU}{daymonthsep}{\renewcommand*{\DTMnAUDaymonthsep}{#1}}
\DTMdefkey{en-AU}{monthyearsep}{\renewcommand*{\DTMnAUMonthyearsep}{#1}}
\DTMdefkey{en-AU}{datetimesep}{\renewcommand*{\DTMnAUDateTimesep}{#1}}
\DTMdefkey{en-AU}{timezonesep}{\renewcommand*{\DTMnAUTimezonesep}{#1}}
\DTMdefkey{en-AU}{datesep}{\renewcommand*{\DTMnAUDatesep}{#1}}
\DTMdefkey{en-AU}{timesep}{\renewcommand*{\DTMnAУimesep}{#1}}
Define a boolean key that can switch between full and abbreviated formats for the month and day of week names in the text format.

\DTMdefboolkey{en-AU}{abbr}[true]{}

The default is the full name.

\DTMsetbool{en-AU}{abbr}{false}

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

\DTMdefboolkey{en-AU}{mapzone}[true]{}

The default is no mappings.

\DTMsetbool{en-AU}{mapzone}{false}

Define a boolean key that determines whether to show or hide the day of the month. (Called showdayofmonth instead of showday to avoid confusion with the day of the week.)

\DTMdefboolkey{en-AU}{showdayofmonth}[true]{}

The default is to show the day of the month.

\DTMsetbool{en-AU}{showdayofmonth}{true}

Define a boolean key that determines whether to show or hide the year.

\DTMdefboolkey{en-AU}{showyear}[true]{}

The default is to show the year.

\DTMsetbool{en-AU}{showyear}{true}

\DTMenAUfmtordsuffix Define the ordinal suffix to be used by this style.

\newcommand*{\DTMenAUfmtordsuffix}[1]{}

Define a setting to change the ordinal suffix style.

\DTMdefchoicekey{en-AU}{ord}[\val\nr]{level,raise,omit,sc}%
\ifcase\nr\relax
\renewcommand*{\DTMenAUfmtordsuffix}[1]{##1}%
\or
\renewcommand*{\DTMenAUfmtordsuffix}[1]{%\DTMtexorpdfstring{\protect\textsuperscript{##1}}{##1}}%
\or
\renewcommand*{\DTMenAUfmtordsuffix}[1]{%}
\or
\renewcommand*{\DTMenAUfmtordsuffix}[1]{%\DTMtexorpdfstring{\protect\textsc{##1}}{##1}}%
\fi
\fi

Define a setting to change zone mappings.

\DTMdefchoicekey{en-AU}{zone}[\val\nr]{std,standard,dst,daylight,central,central-western,western,eastern,christmas,lord-howe,cocos,keeling,clear}%
\ifcase\nr\relax
{std,standard,dst,daylight,central,central-western,western,eastern,christmas,lord-howe,cocos,keeling,clear}%
\fi
\fi
\% std
\appto{DTMenAUzonemaps}{\DTMenAUstdzonemaps}
\DTMenAUstdzonemaps
\or
\% standard
\appto{DTMenAUzonemaps}{\DTMenAUstdzonemaps}
\DTMenAUstdzonemaps
\or
\% dst
\appto{DTMenAUzonemaps}{\DTMenAUdstzonemaps}
\DTMenAUdstzonemaps
\or
\% daylight
\appto{DTMenAUzonemaps}{\DTMenAUdstzonemaps}
\DTMenAUdstzonemaps
\or
\% central
\appto{DTMenAUzonemaps}{\DTMenAUcentralzonemaps}
\DTMenAUcentralzonemaps
\or
\% central-western
\appto{DTMenAUzonemaps}{\DTMenAUcentralwesternzonemaps}
\DTMenAUcentralwesternzonemaps
\or
\% western
\appto{DTMenAUzonemaps}{\DTMenAUwesternzonemaps}
\DTMenAUwesternzonemaps
\or
\% eastern
\appto{DTMenAUzonemaps}{\DTMenAUeasternzonemaps}
\DTMenAUeasternzonemaps
\or
\% christmas
\appto{DTMenAUzonemaps}{\DTMenAUchristmaszonemaps}
\DTMenAUchristmaszonemaps
\or
\% lord-howe
\appto{DTMenAUzonemaps}{\DTMenAUlordhowezonemaps}
\DTMenAUlordhowezonemaps
\or
\% norfolk
\appto{DTMenAUzonemaps}{\DTMenAUnorfolkzonemaps}
\DTMenAUnorfolkzonemaps
\or
\% cocos
\appto{DTMenAUzonemaps}{\DTMenAUcocoszonemaps}
\DTMenAUcocoszonemaps
\or
\% keeling
\appto{DTMenAUzonemaps}{\DTMenAUcocoszonemaps}
\DTMenAUcocoszonemaps
\or
% clear
\renewcommand*{\DTMenAUzonemaps}{%}
\DTMclearmap{6}{30}%
\DTMclearmap{7}{00}%
\DTMclearmap{8}{00}%
\DTMclearmap{8}{45}%
\DTMclearmap{9}{00}%
\DTMclearmap{9}{30}%
\DTMclearmap{10}{00}%
\DTMclearmap{10}{30}%
\DTMclearmap{11}{00}%
\fi
}

Define the en-AU style.
\DTMnewstyle
\{en-AU\}% label
\{% date style
\renewcommand*{\DTMenglishfmtordsuffix}{\DTMenAUfmtordsuffix}%
\renewcommand*{\DTMdisplaydate}[4]{%
\ifDTMshowdow
\ifnum##4>-1%
\DTMifbool{en-AU}{abbr}\
{\DTMenglishshortweekdayname{##4}}%
{\DTMenglishweekdayname{##4}}%
\DTMenAUdowdaysep
\fi
\fi
\DTMifbool{en-AU}{showdayofmonth}%
\{%
\DTMenglishordinal{##3}%
\DTMenAUdaymonthsep
\}%
\DTMifbool{en-AU}{abbr}\
{\DTMenglishshortmonthname{##2}}%
{\DTMenglishmonthname{##2}}%
\DTMifbool{en-AU}{showyear}%
\{%
\DTMenAUmonthyearsep\number##1 % space intended
\}%
\DTMifbool{en-AU}{abbr}\
{\DTMenglishshortmonthname{##2}}%
{\DTMenglishmonthname{##2}}%
\DTMifbool{en-AU}{showyear}%
\{%
\DTMenAUmonthyearsep\number##1 % space intended
\}%
\renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
\}
\{% time style
\renewcommand*{\DTMenglishtimesep}{\DTMenAUtimesep}%
\DTMsettimestyle{englishampm}%
Define numeric style.

\DTMnewstyle
{en-AU-numeric}% label
{\DTMnewcommand*{\DTMdisplayzone}[2]{%
  \DTMifbool{en-AU}{mapzone}{%
    \DTMusezonemapordefault{##1}{##2}{%} %
    \DTMifnum##1<0\else+\fi\DTMtwodigits{##1}%
    \DTMshowzoneminutes\DTMenAUtimesep\DTMtwodigits{##2}\fi %
  }%}
{\DTMshowdate
  \DTMdisplaydate{##1}{##2}{##3}{##4}{%}{\DTMenAUdatetimesep %
  \DTMshowtime
  \DTMdisplaytime{##5}{##6}{##7}{%}{\DTMenAUselzone%}
  \DTMshowtimemzone
  \DTMdisplayzone{##8}{##9}{%}
}{%}
{\DTMnewcommand*{\DTMdisplayzone}{\DTMdisplayzone}%
}{\DTMnewcommand{\DTMdate}{\DTMdisplaydate}%
}{\DTMnewcommand{\DTMtime}{\DTMdisplaytime}%
}{\DTMnewcommand*{\DTMdatetime}{\DTMdisplaydate\DTMdisplaytime}%
}{\DTMnewcommand*{\DTMtimezone}{\DTMdisplayzone}%
}{%}
%
The time zone mappings are set through this command, which can be redefined if extra mappings are required or mappings need to be removed.

```latex
\newcommand*{\DTMenAUzonemaps}{%  
\DTMdefzonemap{10}{30}{ACDT}% Australian Central Daylight Time
\DTMdefzonemap{11}{00}{AEDT}% Australian Eastern Daylight Time
\DTMdefzonemap{9}{30}{ACST}% Australian Central Standard Time
\DTMdefzonemap{8}{45}{ACWST}% Australian Central Western Standard Time
\DTMdefzonemap{9}{00}{ACWDT}% Australian Central Western Daylight Time
\DTMdefzonemap{10}{00}{AEDT}% Australian Eastern Standard Time
\DTMdefzonemap{8}{00}{AWDT}% Australian Western Standard Time
\DTMdefzonemap{7}{00}{CXT}% Christmas Island Time
\DTMdefzonemap{11}{30}{NFT}% Norfolk Island Time
}\DTMenAUstdzonemaps  Just the standard time zone mappings.
\newcommand*{\DTMenAUstdzonemaps}{%  \DTMdefzonemap{6}{30}{CCT}%
}\DTMenAUzonemaps  The time zone mappings are set through this command, which can be redefined if extra mappings are required or mappings need to be removed.
\newcommand*{\DTMenAUzonemaps}{%  \DTMdefzonemap{10}{30}{ACDT}% Australian Central Daylight Time
\DTMdefzonemap{11}{00}{AEDT}% Australian Eastern Daylight Time
\DTMdefzonemap{9}{30}{ACST}% Australian Central Standard Time
\DTMdefzonemap{8}{45}{ACWST}% Australian Central Western Standard Time
\DTMdefzonemap{9}{00}{ACWDT}% Australian Central Western Daylight Time
\DTMdefzonemap{10}{00}{AEDT}% Australian Eastern Standard Time
\DTMdefzonemap{8}{00}{AWDT}% Australian Western Standard Time
\DTMdefzonemap{7}{00}{CXT}% Christmas Island Time
\DTMdefzonemap{11}{30}{NFT}% Norfolk Island Time
\DTMenAUstdzonemaps  Just the standard time zone mappings.
\newcommand*{\DTMenAUstdzonemaps}{%  \DTMdefzonemap{6}{30}{CCT}%
```
\DTMenAUdstzonemaps  Just daylight saving mappings. (Conflicts omitted.)
\newcommand*{\DTMenAUdstzonemaps}{% 
\DTMdefzonemap{9}{00}{AWDT}\
\DTMdefzonemap{10}{30}{ACDT}\
\DTMdefzonemap{11}{00}{AEDT}\
}

\DTMenAUcentralzonemaps  Just the Australian Central zone mappings (ACST and ACDT).
\newcommand*{\DTMenAUcentralzonemaps}{% 
\DTMdefzonemap{9}{30}{ACST}\
\DTMdefzonemap{10}{30}{ACDT}\
}

\DTMenAUcentralwesternzonemaps  Just the Australian Central Western zone mapping (ACWST).
\newcommand*{\DTMenAUcentralwesternzonemaps}{% 
\DTMdefzonemap{8}{45}{ACWST}\
}

\DTMenAUwesternzonemaps  Just the Australian Western zone mappings (AWST and AWDT).
\newcommand*{\DTMenAUwesternzonemaps}{% 
\DTMdefzonemap{8}{00}{AWST}\
\DTMdefzonemap{9}{00}{AWDT}\
}

\DTMenAUeasternzonemaps  Just the Australian Eastern zone mappings (AEST and AEDT).
\newcommand*{\DTMenAUeasternzonemaps}{% 
\DTMdefzonemap{10}{00}{AEST}\
\DTMdefzonemap{11}{00}{AEDT}\
}

\DTMenAUchristmaszonemaps  Just the Christmas Island zone mapping (CXT).
\newcommand*{\DTMenAUchristmaszonemaps}{% 
\DTMdefzonemap{7}{00}{CXT}\
}

\DTMenAUlordhowezonemaps  Just the Lord Howe Island zone mappings (LHST and LHDT).
\newcommand*{\DTMenAUlordhowezonemaps}{% 
\DTMdefzonemap{10}{00}{LHST}\
\DTMdefzonemap{11}{00}{LHDT}\
}
Just the Norfolk Island zone mapping (NFT).
\newcommand*{\DTMenAUnorfolkzonemaps}{\DTMdefzonemap{11}{00}{NFT}}

Just the Cocos (Keeling) Island zone mapping (CCT).
\newcommand*{\DTMenAUcocoszonemaps}{\DTMdefzonemap{6}{30}{CCT}}

Switch style according to the \texttt{useregional} setting.
\DTMifcaseregional
{}% do nothing
\DTMsetstyle{en-AU}%
\DTMsetstyle{en-AU-numeric}%%
\DTMenAUcocoszonemaps
\DTMenAUnorfolkzonemaps

Redefine \dateenglish (or \date)\langle\textit{dialect}\rangle to prevent \texttt{babel} from resetting \today. (For this to work, \texttt{babel} must already have been loaded if it’s required.)
\ifcsundef{date\CurrentTrackedDialect}
\ifundef\dateenglish
\def\dateenglish{\DTMifcaseregional
{}% do nothing
\DTMsetstyle{en-AU}%
\DTMsetstyle{en-AU-numeric}%%
\csdef{date\CurrentTrackedDialect}{\DTMifcaseregional
{}% do nothing
\DTMsetstyle{en-AU}%
\DTMsetstyle{en-AU-numeric}%%}
\else
\csdef{date\CurrentTrackedDialect}{\DTMifcaseregional
{}% do nothing
\DTMsetstyle{en-AU}%
\DTMsetstyle{en-AU-numeric}%%}
\fi

14.7 English (New Zealand) Code (datetime2-en-NZ.1df)
This file contains the New Zealand English style.
Identify this module.
\ProvidesDateTimeModule{en-NZ}[2016/03/09 v1.04 (NLCT)]
Load base English module.
\RequireDateTimeModule{english-base}
Allow the user a way of configuring the en-NZ and en-NZ-numeric styles. This doesn’t use the package wide separators such as `\dtm@datetimesep` in case other date formats are also required.

`\DTMenNZdowdaysep` The separator between the day of week name and the day of month number for the text format.

1367 `\newcommand*{\DTMenNZdowdaysep}\{\space}\`

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

1368 `\newcommand*{\DTMenNZdaymonthsep}\{\space}\`

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

1369 `\newcommand*{\DTMenNZmonthyearsep}\{\space}\`

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

1370 `\newcommand*{\DTMenNZdatetimesep}\{\space}\`

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

1371 `\newcommand*{\DTMenNZtimezonesep}\{\space}\`

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

1372 `\newcommand*{\DTMenNZdatesep}\{/\}`

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

1373 `\newcommand*{\DTMenNZtimesep}\{:\}`

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

1374 `\DTMdefkey{en-NZ}{dowdaysep}{\renewcommand*{\DTMenNZdowdaysep}{#1}}\`

1375 `\DTMdefkey{en-NZ}{daymonthsep}{\renewcommand*{\DTMenNZdaymonthsep}{#1}}\`

1376 `\DTMdefkey{en-NZ}{monthyearsep}{\renewcommand*{\DTMenNZmonthyearsep}{#1}}\`

1377 `\DTMdefkey{en-NZ}{datetimesep}{\renewcommand*{\DTMenNZdatetimesep}{#1}}\`

1378 `\DTMdefkey{en-NZ}{timezonesep}{\renewcommand*{\DTMenNZtimezonesep}{#1}}\`

1379 `\DTMdefkey{en-NZ}{datesep}{\renewcommand*{\DTMenNZdatesep}{#1}}\`

1380 `\DTMdefkey{en-NZ}{timesep}{\renewcommand*{\DTMenNZtimesep}{#1}}\`

Define a boolean key that can switch between full and abbreviated formats for the month and day of week names in the text format.

1381 `\DTMdefboolkey{en-NZ}{abbr}[true]\`

The default is the full name.

1382 `\DTMsetbool{en-NZ}{abbr}\{false}\`

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

1383 `\DTMdefboolkey{en-NZ}{mapzone}[true]\`

The default is no mappings.

1384 `\DTMsetbool{en-NZ}{mapzone}\{false}\`

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Define a boolean key that determines whether to show or hide the day of the month. (Called showdayofmonth instead of showday to avoid confusion with the day of the week.)

\DMdefboolkey{en-NZ}{showdayofmonth}{true}

The default is to show the day of the month.

\DMsetbool{en-NZ}{showdayofmonth}{true}

Define a boolean key that determines whether to show or hide the year.

\DMdefboolkey{en-NZ}{showyear}{true}

The default is to show the year.

\DMsetbool{en-NZ}{showyear}{true}

\DTMenNZfmtordsuffix Define the ordinal suffix to be used by this style.

\newcommand*{\DTMenNZfmtordsuffix}[1]{

Define a setting to change the ordinal suffix style.

\DTMdefchoicekey{en-NZ}{ord}{\text{\val
r}}{level,raise,omit,sc}{%
\ifcase\nr\relax
\renewcommand*{\DTMenNZfmtordsuffix}[1]{##1}%
\or
\renewcommand*{\DTMenNZfmtordsuffix}[1]{{%}
\renewcommand*{\DTMtexorpdfstring{\protect{textsuperscript{##1}}}{##1}}{##1}%
\or
\renewcommand*{\DTMenNZfmtordsuffix}[1]{%}
\renewcommand*{\DTMenNZfmtordsuffix}[1]{%}
\renewcommand*{\DTMenNZfmtordsuffix}[1]{%}
\fi
}

Define the en-NZ style.

\DTMnewstyle{en-NZ}{% date style
\renewcommand*{\DTMenglishfmtordsuffix}{\DTMenNZfmtordsuffix}%
\renewcommand*{\DTMdisplaydate}[4]{%}
\ifDTMshowdow
\ifnum##4>-1%
\ifDTMshowbool{en-NZ}{abbr}%
\{\DTMenglishshortweekdayname{##4}\%
\{\DTMenglishweekdayname{##4}\%
\DTMenNZdowdaysep
\fi
\fi
\fi
\fi
\DTMifbool{en-NZ}{showdayofmonth}%
\%
\DTMenglishordinals{##3}%
\DTMenNZdaymonthsep
}%
\DTMnewstyle{en-NZ-numeric}{\DTMifbool{en-NZ}{showyear}\DTMenNZmonthyearsep\number##1 % space intended}\renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate##1##2##3##4}\renewcommand*{\DTMenglishtimesep}{\DTMenNZtimesep}\DTMsettimestyle{englishampm}\renewcommand*{\DTMdisplayzone}[2]{\DTMifbool{en-NZ}{mapzone}{\ifnum##1<0\else+\fi\DTMtwodigits##1\ifDTMshowzoneminutes\DTMenNZtimesep\DTMtwodigits##2\fi}\renewcommand*{\DTMdisplay}[9]{\ifDTMshowdate\DTMdisplaydate##1##2##3##4\fi\DTMenNZdatetimesep\fi\DTMdisplaytime##5##6##7\ifDTMshowzone\DTMenNZtimezonesep\DTMdisplayzone##8##9\fi}\renewcommand*{\DTMdisplay}[9]{\DTMdisplay}}\DTMnewstyle{en-NZ-numeric}% Define numeric style.\renewcommand*{\DTMdisplaydate}[4]{\DTMifbool{en-NZ}{showdayofmonth}\DTMifbool{en-NZ}{showdayofmonth}}\renewcommand*{\DTMdisplaydate}[4]{\DTMifbool{en-NZ}{showdayofmonth}}\renewcommand*{\DTMdisplaydate}[4]{\DTMifbool{en-NZ}{showdayofmonth}}
The time zone mappings are set through this command, which can be redefined if extra mappings are required or mappings need to be removed.
\newcommand*{\DTMenNZzonemaps}{
\DTMdefzonemap{12}{00}{NZST}
\DTMdefzonemap{12}{45}{CHAST}
\DTMdefzonemap{13}{00}{NZDT}
\DTMdefzonemap{13}{45}{CHADT}
}

Switch style according to the \texttt{useregional} setting.
\DTMifcaseregional
\% do nothing
\texttt{\DTMsetstyle{en-NZ}}
\texttt{\DTMsetstyle{en-NZ-numeric}}
\Redefine \texttt{dateenglish} (or \texttt{date(dialect)}) to prevent \texttt{babel} from resetting \texttt{\today}. (For this to work, \texttt{babel} must already have been loaded if it's required.)
\ifcsundef{date\CurrentTrackedDialect}
\% do nothing
\ifundef{dateenglish}
\%\%
\%\%
\%\%
\texttt{\DTMifcaseregional}
\% do nothing
\texttt{\DTMsetstyle{en-NZ}}
\texttt{\DTMsetstyle{en-NZ-numeric}}
\%\%
\%\%
\%\%
\csdef{date\CurrentTrackedDialect}{%
\DTMifcaseregional
\% do nothing
\texttt{\DTMsetstyle{en-NZ}}
\texttt{\DTMsetstyle{en-NZ-numeric}}
\%\%
\%\%
\%\%
\}
\}
\}
\}

\ProvidesDateTimeModule{en-GG}[2016/03/09 v1.04 (NLCT)]

Load base English module.
\RequireDateTimeModule{english-base}

Allow the user a way of configuring the \texttt{en-GG} and \texttt{en-GG-numeric} styles. This doesn’t use the package wide separators such as \texttt{\dtm@datetimesep} in case other date formats are also required.

14.8 English (GG) Code (datetime2-en-GG.ldf)

This file contains the \texttt{en-GG} style.

Identify this module.
\DTMenGGdowdaysep The separator between the day of week name and the day of month number for the text format.
\newcommand*{\DTMenGGdowdaysep}{\space}
\DTMenGGdaymonthsep The separator between the day and month for the text format.
\newcommand*{\DTMenGGdaymonthsep}{\space}
\DTMenGGmonthyearsep The separator between the month and year for the text format.
\newcommand*{\DTMenGGmonthyearsep}{\space}
\DTMenGGdatetimesep The separator between the date and time blocks in the full format (either text or numeric).
\newcommand*{\DTMenGGdatetimesep}{\space}
\DTMenGGtimezonesep The separator between the time and zone blocks in the full format (either text or numeric).
\newcommand*{\DTMenGGtimezonesep}{\space}
\DTMenGGdatesep The separator for the numeric date format.
\newcommand*{\DTMenGGdatesep}{/}
\DTMenGGtimesep The separator for the numeric time format.
\newcommand*{\DTMenGGtimesep}{:}

Provide keys that can be used in \DTMlangsetup to set these separators.
\DTMdefkey{en-GG}{dowdaysep}{\renewcommand*{\DTMenGGdowdaysep}{#1}}
\DTMdefkey{en-GG}{daymonthsep}{\renewcommand*{\DTMenGGdaymonthsep}{#1}}
\DTMdefkey{en-GG}{monthyearsep}{\renewcommand*{\DTMenGGmonthyearsep}{#1}}
\DTMdefkey{en-GG}{datetimesep}{\renewcommand*{\DTMenGGdatetimesep}{#1}}
\DTMdefkey{en-GG}{timezonesep}{\renewcommand*{\DTMenGGtimezonesep}{#1}}
\DTMdefkey{en-GG}{datesep}{\renewcommand*{\DTMenGGdatesep}{#1}}
\DTMdefkey{en-GG}{timesep}{\renewcommand*{\DTMenGGtimesep}{#1}}

Define a boolean key that can switch between full and abbreviated formats for the month and day of week names in the text format.
\DTMdefboolkey{en-GG}{abbr}[true]{}
The default is the full name.
\DTMsetbool{en-GG}{abbr}{false}

Define a boolean key that determines if the time zone mappings should be used.
\DTMdefboolkey{en-GG}{mapzone}[true]{}
The default is to use mappings.
\DTMsetbool{en-GG}{mapzone}{true}

Define a boolean key that determines whether to show or hide the day of the month. (Called showdayofmonth instead of showday to avoid confusion with the day of the week.)
\DTMdefboolkey{en-GG}{showdayofmonth}[true]{}
The default is to show the day of the month.

Define a boolean key that determines whether to show or hide the year.

Define the ordinal suffix to be used by this style.

Define a setting to change the ordinal suffix style.

Define the \emph{en-GG} style.
Define numeric style.
\DTMnewstyle{en-GG-numeric}% label
{en-GG-numeric} % date style
\renewcommand*{\DTMdisplaydate}[4]{\DTMifbool{en-GG}{showdayofmonth}{\number##3}{##4}}%
The time zone mappings are set through this command, which can be redefined if extra mappings are required or mappings need to be removed.

\newcommand*{\DTMgGzonemaps}{%}
\DTMdefzonemap{00}{00}{GMT}%
\DTMdefzonemap{01}{00}{BST}%
Switch style according to the \texttt{userregional} setting.
\DTMifcaseregional
\% do nothing
\DTMsetstyle{en-GG}\
\DTMsetstyle{en-GG-numeric}\
Redefine \texttt{\dateenglish} (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.)
\ifcsundef{date\CurrentTrackedDialect}
\% do nothing
\ifundef\dateenglish
\%\%\%
\def\dateenglish{%\DTMifcaseregional
\% do nothing
\DTMsetstyle{en-GG}\
\DTMsetstyle{en-GG-numeric}\
%\%\%
%\%
\csdef{date\CurrentTrackedDialect}{{\DTMifcaseregional
\% do nothing
\DTMsetstyle{en-GG}\
\DTMsetstyle{en-GG-numeric}\
%\%\%
%\%\%}

\newcommand*{\DTMenJEdowdaysep}{\space}
\newcommand*{\DTMenJEdaymonthsep}{\space}

14.9 English (JE) Code (datetime2-en-JE.ldf)
This file contains the \texttt{en-JE} style.
Identify this module.
\ProvidesDateTimeModule{en-JE}[2016/03/09 v1.04 (NLCT)]
Load base English module.
\RequireDateTimeModule{english-base}
Allow the user a way of configuring the \texttt{en-JE} and \texttt{en-JE-numeric} styles. This doesn’t use the package wide separators such as \texttt{\dtm@datetimesep} in case other date formats are also required.

\DTMenJEdowdaysep The separator between the day of week name and the day of month number for the text format.
\DTMenJEdaymonthsep The separator between the day and month for the text format.
\DTMenJEmonthyearsep \ The separator between the month and year for the text format.
\newcommand*{\DTMenJEmonthyearsep}{\space}

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

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

\DTMenJEdatesep \ The separator for the numeric date format.
\newcommand*{\DTMenJEdatesep}{{}}

\DTMenJEtimesep \ The separator for the numeric time format.
\newcommand*{\DTMenJEtimesep}{{}}

Provide keys that can be used in \DTMlangsetup to set these separators.
\DTMdefkey{en-JE}{dowdaysep}{\renewcommand*{\DTMenEdowdaysep}{#1}}
\DTMdefkey{en-JE}{daymonthsep}{\renewcommand*{\DTMenJEdaymonthsep}{#1}}
\DTMdefkey{en-JE}{monthyearsep}{\renewcommand*{\DTMenJEmonthyearsep}{#1}}
\DTMdefkey{en-JE}{datetimesep}{\renewcommand*{\DTMenJEdatetimesep}{#1}}
\DTMdefkey{en-JE}{timezonesep}{\renewcommand*{\DTMenJEtimezonesep}{#1}}
\DTMdefkey{en-JE}{datesep}{\renewcommand*{\DTMenJEdatesep}{#1}}
\DTMdefkey{en-JE}{timesep}{\renewcommand*{\DTMenJEtimesep}{#1}}

Define a boolean key that can switch between full and abbreviated formats for the month and day of week names in the text format.
\DTMdefboolkey{en-JE}{abbr}[true]{}
The default is the full name.
\DTMsetbool{en-JE}{abbr}{false}

Define a boolean key that determines if the time zone mappings should be used.
\DTMdefboolkey{en-JE}{mapzone}[true]{}
The default is to use mappings.
\DTMsetbool{en-JE}{mapzone}{true}

Define a boolean key that determines whether to show or hide the day of the month. (Called showdayofmonth instead of showday to avoid confusion with the day of the week.)
\DTMdefboolkey{en-JE}{showdayofmonth}[true]{}
The default is to show the day of the month.
\DTMsetbool{en-JE}{showdayofmonth}{true}

Define a boolean key that determines whether to show or hide the year.
\DTMdefboolkey{en-JE}{showyear}[true]{}

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The default is to show the year.

\DTMsetbool{en-JE}{showyear}{true}

\DTMenJEfmtordsuffix  Define the ordinal suffix to be used by this style.

\newcommand*{\DTMenJEfmtordsuffix}[1]{#1}

Define a setting to change the ordinal suffix style.

\DTMdefchoicekey{en-JE}{ord}{[\val\nr]{level,raise,omit,sc}{%
\ifcase\nr\relax
\or
\renewcommand*{\DTMenJEfmtordsuffix}[1]{%}
\or
\renewcommand*{\DTMenJEfmtordsuffix}[1]{%}
\or
\renewcommand*{\DTMenJEfmtordsuffix}[1]{%}
\fi
}}

Define the \texttt{en-JE} style.

\DTMnewstyle
{en-JE}{% date style
\renewcommand*{\DTMenglishfmtordsuffix}{\DTMenJEfmtordsuffix}%
\renewcommand*{\DTMdisplaydate}[4]{%
\ifDTMshowdow
\ifnum##4>-1%
\DTMifbool{en-JE}{abbr}%
{\DTMenglishshortweekdayname{##4}}%
{\DTMenglishweekdayname{##4}}%
\DTMenJEdowdaysep
\fi
\fi
\DTMifbool{en-JE}{showdayofmonth}%
{\DTMenglishordinal{##3}}%
\DTMenJEdaymonthsep
}%
\}%
\DTMifbool{en-JE}{abbr}%
{\DTMenglishshortmonthname{##2}}%
{\DTMenglishmonthname{##2}}%
\DTMifbool{en-JE}{showyear}%
{\DTMenJEmonthyearsep\number##1 % space intended
}%
\}%
%}
\renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}% 
\renewcommand*\DTMenglishtimesep{\DTMenJEtimesep}% 
\DTMsettimestyle{englishampm}% 
\DTMresetzones 
\DTMenJEzonemaps 
\renewcommand*{\DTMdisplayzone}[2]{% 
  \DTMifbool{en-JE}{mapzone}{% 
    % 
    \ifnum##1<0\else+\fi\DTMtwodigits{##1}% 
    \if\DTMshowzoneminutes\DTMenJEtimesep\DTMtwodigits{##2}\fi
  %} 
} 
\renewcommand*{\DTMdisplay}[9]{% 
  \if\DTMshowdate 
  \DTMdisplaydate{##1}{##2}{##3}{##4}% 
  \DTMenJEdatetimesep 
  \fi 
  \DTMdisplaytime{##5}{##6}{##7}% 
  \if\DTMshowzone 
  \DTMenJEtimezonesep 
  \DTMdisplayzone{##8}{##9}% 
  \fi 
} 
\renewcommand*{\DTMDisplay}{\DTMdisplay} 

Define numeric style. 
\DTMnewstyle 
{en-JE-numeric}% label 
{\DTMdisplaydate}[4]{% 
  \DTMifbool{en-JE}{showdayofmonth}{% 
    % 
    \number##3 \ % space intended 
    \DTMenJEdatesep 
  }% 
} 
{\DTMdisplay}[9]{% 
  \number##2 \ % space intended 
  \DTMifbool{en-JE}{showyear}{% 
    % 
    \DTMenJEdatesep 
    \number##1 \ % space intended 
  }% 
} 

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

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

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

Switch style according to the \texttt{useregional} setting.
```
Redefine \dateenglish (or \date{dialect}) to prevent babel from resetting \today. (For this to work, babel must already have been loaded if it’s required.)

\ifcsundef{date\CurrentTrackedDialect}

{\ifundef\dateenglish

{\defdateenglish{%
\DTMifcaseregional
{\DTMsetstyle{en-JE}}%
{\DTMsetstyle{en-JE-numeric}}%
}
}
}

{\csdef{date\CurrentTrackedDialect}{%
\DTMifcaseregional
{\DTMsetstyle{en-JE}}%
{\DTMsetstyle{en-JE-numeric}}%
}
}
}

\ProvidesDateTimeModule{en-IM}[2016/03/09 v1.04 (NLCT)]

Load base English module.

\RequireDateTimeModule{english-base}

Allow the user a way of configuring the en-IM and en-IM-numeric styles. This doesn’t use the package wide separators such as \dtm@datetimesep in case other date formats are also required.

\DTMenIMdowdaysep The separator between the day of week name and the day of month number for the text format.

\newcommand*{\DTMenIMdowdaysep}{\space}

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

\newcommand*{\DTMenIMdaymonthsep}{\space}

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

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

\newcommand*{\DTMenIMdatetimesep}{\space}

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

\newcommand*{\DTMenIMtimezonesep}{\space}

\DTMenIMdatesep The separator for the numeric date format.

\newcommand*{\DTMenIMdatesep}{/}

\DTMenIMtimesep The separator for the numeric time format.

\newcommand*{\DTMenIMtimesep}{:}

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

\DTMdefkey{en-IM}{dowdaysep}{\renewcommand*{\DTMenIMdowdaysep}{#1}}
\DTMdefkey{en-IM}{daymonthsep}{\renewcommand*{\DTMenIMdaymonthsep}{#1}}
\DTMdefkey{en-IM}{monthyearsep}{\renewcommand*{\DTMenIMmonthyearsep}{#1}}
\DTMdefkey{en-IM}{datetimesep}{\renewcommand*{\DTMenIMdatetimesep}{#1}}
\DTMdefkey{en-IM}{timezonesep}{\renewcommand*{\DTMenIMtimezonesep}{#1}}
\DTMdefkey{en-IM}{datesep}{\renewcommand*{\DTMenIMdatesep}{#1}}
\DTMdefkey{en-IM}{timesep}{\renewcommand*{\DTMenIMtimesep}{#1}}

Define a boolean key that can switch between full and abbreviated formats for the month and day of week names in the text format.

\DTMdefboolkey{en-IM}{abbr}[true]{}
The default is the full name.
\DTMsetbool{en-IM}{abbr}{false}

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

\DTMdefboolkey{en-IM}{mapzone}[true]{}
The default is to use mappings.
\DTMsetbool{en-IM}{mapzone}{true}

Define a boolean key that determines whether to show or hide the day of the month. (Called showdayofmonth instead of showday to avoid confusion with the day of the week.)

\DTMdefboolkey{en-IM}{showdayofmonth}[true]{}
The default is to show the day of the month.
\DTMsetbool{en-IM}{showdayofmonth}{true}

Define a boolean key that determines whether to show or hide the year.

\DTMdefboolkey{en-IM}{showyear}[true]{}
The default is to show the year.
\DTMsetbool{en-IM}{showyear}{true}
\DTMenIMfmtordsuffix  Define the ordinal suffix to be used by this style.
\newcommand*{\DTMenIMfmtordsuffix}[1]{#1}

Define a setting to change the ordinal suffix style.
\DTMdefchoicekey{en-IM}{ord}[%
\val
\nr
\relax
\or
\renewcommand*{\DTMenIMfmtordsuffix}[1]{%\DTMtexorpdfstring{\protect\textsuperscript{##1}}{##1}}%
\or
\renewcommand*{\DTMenIMfmtordsuffix}[1]{%%
\DTMtexorpdfstring{\protect\textsc{##1}}{##1}}%
\fi
}

Define the \texttt{en-IM} style.
\DTMnewstyle{en-IM}{% label
{} date style
\renewcommand*{\DTMenglishfmtordsuffix}{\DTMenIMfmtordsuffix}%
\renewcommand*{\DTMdisplaydate}[4]{%\ifDTMshowdow
\DTMifbool{en-IM}{abbr}%
{\DTMenglishshortweekdayname{##4}}%
{\DTMenglishweekdayname{##4}}%
\fi
\DTMifbool{en-IM}{showdayofmonth}%
{\DTMenIMdowdaysep
\DTMifbool{en-IM}{abbr}%
{\DTMenglishshortmonthname{##2}}%
{\DTMenglishmonthname{##2}}%
\fi
\DTMifbool{en-IM}{showyear}%
{\DTMenIMmonthyearsep\number##1 % space intended
}}%
\fi
\DTMifbool{en-IM}{abbr}%
{\DTMenglishshortmonthname{##2}}%
{\DTMenglishmonthname{##2}}%
\fi
\DTMifbool{en-IM}{showyear}%
{\DTMenIMmonthyearsep\number##1 % space intended
}}%
\fi
\renewcommand*{\DTMDisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
%

{\DTMnewstyle{en-IM}{% time style
}}%
\renewcommand*{\DTMenglishtimesep}{\DTMenIMtimesep}%
\DTMsettimestyle{englishampm}%
}\%

\% zone style
\DTMresetzones
\DTMenIMzonemaps
\renewcommand*{\DTMdisplayzone}[2]{%
  \DTMifbool{en-IM}{mapzone}%
  {\DTMusezonemapordefault{##1}{##2}}%
  
  \% ifnum##1<0\else+\fi\DTMtwodigits{##1}%
  \ifDTMshowzonemnutes\DTMenIMtimesep\DTMtwodigits{##2}\fi%
}\%
%
\% full style
\renewcommand*{\DTMdisplay}[9]{%
  \ifDTMshowdate
  \DTMdisplaydate{##1}{##2}{##3}{##4}%
  \DTMenIMdatetimesep
  \fi
  \DTMdisplaytime{##5}{##6}{##7}%
  \ifDTMshowzone
  \DTMenIMtimezonesep
  \DTMdisplayzone{##8}{##9}%
  \fi
\}

\renewcommand*{\DTMDisplay}{\DTMdisplay}%
\renewcommand*{\DTMnewstyle}{}|label|
\% date style
\renewcommand*{\DTMdisplaydate}[4]{%
  \DTMifbool{en-IM}{showdayofmonth}%
  {%
    \number##3 % space intended
    \DTMenIMdatesep
  }%
  \}

  \number##2 % space intended
  \DTMifbool{en-IM}{showyear}%
  {%
    \DTMenIMdatesep
  }%
%
  \number##1 % space intended
  }
  }
  \DTMnewcommand*{\DTMdisplaydate}{|{\DTMdisplaydate}|}
\DTMenIMzonemaps The time zone mappings are set through this command, which can be redefined if extra mappings are required or mappings need to be removed.

\newcommand*{\DTMenIMzonemaps}{%}
\DTMdefzonemap{00}{00}{GMT}%
\DTMdefzonemap{01}{00}{BST}%
\DTMsetstyle{en-IM}{en-IM-numeric}%

Switch style according to the userregional setting.
\DTMcaseregional
{}% do nothing
\DTMsetstyle{en-IM}%
\DTMsetstyle{en-IM-numeric}%

Redefine \dateenglish (or \date⟨dialect⟩) to prevent babel from resetting \today. (For this to work, babel must already have been loaded if it's required.)
14.11 English (MT) Code (datetime2-en-MT.1df)

This file contains the en-MT style.

Identify this module.

\ProvidesDateTimeModule{en-MT}[2016/03/09 v1.04 (NLCT)]

Load base English module.

\RequireDateTimeModule{english-base}

Allow the user a way of configuring the en-MT and en-MT-numeric styles. This doesn’t use the package wide separators such as \dtm@datetimesep in case other date formats are also required.

\DTMenMTdowdaysep The separator between the day of week name and the day of month number for the text format.
\newcommand*{\DTMenMTdowdaysep}{\space}

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

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

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

\newcommand*{\DTMenMTtimezonesep}{\space}

\DTMenMTdatesep  The separator for the numeric date format.

\newcommand*{\DTMenMTdatesep}{/}

\DTMenMTtimesep  The separator for the numeric time format.

\newcommand*{\DTMenMTtimesep}{:}

Provide keys that can be used in \DTMlangsetup to set these separators.
\DTMdefkey{en-MT}{dowdaysep}{\renewcommand*{\DTMenMTdowdaysep}{#1}}
\DTMdefkey{en-MT}{daymonthsep}{\renewcommand*{\DTMenMTdaymonthsep}{#1}}
\DTMdefkey{en-MT}{monthyearsep}{\renewcommand*{\DTMenMTmonthyearsep}{#1}}
\DTMdefkey{en-MT}{datetimesep}{\renewcommand*{\DTMenMTdatetimesep}{#1}}
\DTMdefkey{en-MT}{timezonesep}{\renewcommand*{\DTMenMTtimezonesep}{#1}}
\DTMdefkey{en-MT}{datesep}{\renewcommand*{\DTMenMTdatesep}{#1}}
\DTMdefkey{en-MT}{timesep}{\renewcommand*{\DTMenMTtimesep}{#1}}

Define a boolean key that can switch between full and abbreviated formats for the month and day of week names in the text format.
\DTMdefboolkey{en-MT}{abbr}[true]{}

The default is the full name.
\DTMsetbool{en-MT}{abbr}{false}

Define a boolean key that determines if the time zone mappings should be used.
\DTMdefboolkey{en-MT}{mapzone}[true]{}

The default is to use mappings.
\DTMsetbool{en-MT}{mapzone}{true}

Define a boolean key that determines whether to show or hide the day of the month. (Called showdayofmonth instead of showday to avoid confusion with the day of the week.)
\DTMdefboolkey{en-MT}{showdayofmonth}[true]{}

The default is to show the day of the month.
\DTMsetbool{en-MT}{showdayofmonth}{true}

Define a boolean key that determines whether to show or hide the year.
\DTMdefboolkey{en-MT}{showyear}[true]{}

The default is to show the year.
\DTMsetbool{en-MT}{showyear}{true}

\DTMenMTfmtordsuffix  Define the ordinal suffix to be used by this style.
\newcommand*{\DTMenMTfmtordsuffix}{[1]}
Define a setting to change the ordinal suffix style.

```latex
\DTMdefchoicestyle{en-MT}{ord}{\val\nr}{level, raise, omit, sc} %
\ife\nr\relax
  \renewcommand*{\DTMenMTfmtordsuffix}[1]{##1} %
\or
  \renewcommand*{\DTMenMTfmtordsuffix}[1]{\DTMtexorpdfstring{\protect\textsuperscript{##1}}{##1}} %
\or
  \renewcommand*{\DTMenMTfmtordsuffix}[1]{} %
\or
  \renewcommand*{\DTMenMTfmtordsuffix}[1]{\DTMtexorpdfstring{\protect\textsc{##1}}{##1}} %
\fi
\}
```

Define the en-MT style.

```latex
\DTMnewstyle{en-MT}% label
{date style
  \renewcommand*{\DTMenglishfmtordsuffix}{\DTMenMTfmtordsuffix}%
  \renewcommand*{\DTMdisplaydate}[4]{%
    \ifDTMshowdow
      \ifnum##4>-1%
        \DTMifbool{en-MT}{abbr}\
          {\DTMenMTdowdaysep}
        \fi
      \fi
      \DTMifbool{en-MT}{showdayofmonth}%
      \DTMenMTdaymonthsep
    \}
  }%
\}
```

```latex
% time style
\DTMsettimestyle{englishampm} %
```

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\DTMresetzones
\DTMenMTzonemaps
\renewcommand*{\DTMdisplayzone}[2]{%
  \ifDTMshowzone
    \DTMusezonemapordefault{##1}{##2}]
  \else
    \DTMifbool{en-MT}{mapzone}%
    \DTMtwodigits{##1}\
    \ifDTMshowzoneminutes\DTMenMTtimesep\DTMtwodigits{##2}\fi
  \fi
%
\renewcommand*{\DTMdisplay}[9]{%
  \ifDTMshowdate
    \DTMdisplaydate{##1}{##2}{##3}{##4}\
    \DTMenMTdatetimesep
  \else
    \fi
  \DTMdisplaytime{##5}{##6}{##7}\
  \ifDTMshowzone
    \DTMenMTtimezonesep
    \DTMdisplayzone{##8}{##9}\
  \else
    \fi
%
\renewcommand*{\DTMDisplay}{\DTMdisplay}\
\renewcommand*{\DTMdisplay}{\DTMdisplay}%

\DTMnewstyle{en-MT-numeric}{% label
\renewcommand*{\DTMdisplaydate}[4]{%
  \ifDTMshowdate
    \DTMdisplaydate{##1}{##2}{##3}{##4}\
    \DTMenMTdatetimesep
  \else
    \fi
  \number##1 % space intended
  \DTMenMTdatesep
%
\renewcommand*{\DTMdisplaytime}{%
  \number##2 % space intended
  \DTMenMTdatesep
%
\renewcommand*{\DTMDisplaydate}[4]{%\DTMdisplaydate{##1}{##2}{##3}{##4}\
\renewcommand*{\DTMdisplaytime}{%
\renewcommand*{\DTMdisplaydate}{%
\DTMenMTzonemaps

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

\newcommand*{\DTMenMTzonemaps}{%
\DTMdefzonemap{02}{00}{CEST}%
\DTMdefzonemap{01}{00}{CET}%
}%

Switch style according to the \useregional setting.

\DTMifcaseregional % do nothing
{\DTMsetstyle{en-MT}}%
{\DTMsetstyle{en-MT-numeric}}%

Redefine \dateenglish (or \date\langle dialect\rangle) to prevent babel from resetting \today. (For this to work, babel must already have been loaded if it’s required.)
\ifsundef{date\CurrentTrackedDialect} % do nothing
\ifundeft\dateenglish

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14.12 English (IE) Code (datetime2-en-IE.ldf)

This file contains the en-IE style.
Identify this module.

\ProvidesDateTimeModule{en-IE}[2016/03/09 v1.04 (NLCT)]

Load base English module.

\RequireDateTimeModule{english-base}

Allow the user a way of configuring the en-IE and en-IE-numeric styles. This
doesn’t use the package wide separators such as \dtm@datetimesep in case other
date formats are also required.

\DTMenIEdowdaysep The separator between the day and month for the text format.
\DTMenIEdaymonthsep The separator between the day and month for the text format.
\DTMenIEmonthyearsep The separator between the month and year for the text format.
\DTMenIEdatetimesep The separator between the date and time blocks in the full format (either text or
numeric).
\DTMenIETIMEzone sep The separator between the time and zone blocks in the full format (either text or
numeric).
\texttt{\DTMenIEdatesep} The separator for the numeric date format.
\newcommand*{\DTMenIEdatesep}{/}

\texttt{\DTMenIEtimesep} The separator for the numeric time format.
\newcommand*{\DTMenIEtimesep}{:}

Provide keys that can be used in \texttt{\DTMlangsetup} to set these separators.
\DTMdefkey{en-IE}{dowdaysep}{\renewcommand*{\DTMenIEdowdaysep}{#1}}
\DTMdefkey{en-IE}{daymonthsep}{\renewcommand*{\DTMenIEdaymonthsep}{#1}}
\DTMdefkey{en-IE}{monthyearsep}{\renewcommand*{\DTMenIEmonthyearsep}{#1}}
\DTMdefkey{en-IE}{datetimesep}{\renewcommand*{\DTMenIEdatetimesep}{#1}}
\DTMdefkey{en-IE}{timezonesep}{\renewcommand*{\DTMenIEtimezonesep}{#1}}
\DTMdefkey{en-IE}{datesep}{\renewcommand*{\DTMenIEdatesep}{#1}}
\DTMdefkey{en-IE}{timesep}{\renewcommand*{\DTMenIEtimesep}{#1}}

Define a boolean key that can switch between full and abbreviated formats for
the month and day of week names in the text format.
\DTMdefboolkey{en-IE}{abbr}[true]{}
The default is the full name.
\DTMsetbool{en-IE}{abbr}{false}

Define a boolean key that determines if the time zone mappings should be
used.
\DTMdefboolkey{en-IE}{mapzone}[true]{}
The default is to use mappings.
\DTMsetbool{en-IE}{mapzone}{true}

Define a boolean key that determines whether to show or hide the day of the
month. (Called \texttt{showdayofmonth} instead of \texttt{showday} to avoid confusion with the
day of the week.)
\DTMdefboolkey{en-IE}{showdayofmonth}[true]{}
The default is to show the day of the month.
\DTMsetbool{en-IE}{showdayofmonth}{true}

Define a boolean key that determines whether to show or hide the year.
\DTMdefboolkey{en-IE}{showyear}[true]{}
The default is to show the year.
\DTMsetbool{en-IE}{showyear}{true}

\texttt{\DTMenIEfmtordsuffix} Define the ordinal suffix to be used by this style.
\newcommand*{\DTMenIEfmtordsuffix}{[1][#1]}

Define a setting to change the ordinal suffix style.
\DTMdefchoicekey{en-IE}{ord}[\texttt{\val\nr}]{level,raise,omit,sc}{\%}
\ifcase\nr\relax
\renewcommand*{\DTMenIEfmtordsuffix}{[1][##1]}\%
\or\renewcommand*{\DTMenIEfmtordsuffix}{[1]##1}\
\else\renewcommand*{\DTMenIEfmtordsuffix}{[1][#1]}%
\textsuperscript{##1}\%}
\renewcommand*{\DTMenIEfmtordsuffix}{\DTMektorpsfstring{\protect\textsc{##1}}}
% Define the \texttt{en-IE} style.
\DTMnewstyle{en-IE}{% date style
  \renewcommand*{\DTMenglishfmtordsuffix}{\DTMenIEfmtordsuffix}
  \renewcommand*{\DTMdisplaydate}{\DTMifbool{en-IE}{abbr}{\DTMenglishshortweekdayname}{\DTMenglishweekdayname}\DTMenIEdowdaysep
    \DTMifbool{en-IE}{showdayofmonth}{\DTMenglishordinal}{\DTMenIEdaymonthsep
      }\%
    }%
  \renewcommand*{\DTMenglishshortmonthname}{\DTMenglishmonthname}\DTMifbool{en-IE}{showyear}{\DTMenIEmonthyearsep
    }%
  \renewcommand*{\DTMdisplaydate}{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
}
% time style
\renewcommand*{\DTMenglishshorttime}{\DTMenIEshorttime}\DTMsettimestyle{englishampm}
% zone style
\DTMresetzones
\DTMenIEzonemaps
\renewcommand*{\DTMdisplayzone}{\DTMifbool{en-IE}{mapzone}{\DTMusezonemapordefault}##1
  }%
Define numeric style.

\DTMnewstyle{en-IE-numeric}\% label
{\% date style
\renewcommand*{\DTMdisplaydate}[4]{\%}
\DTMifbool{en-IE}{showdayofmonth}{\%}
{\% number##3 % space intended
\DTMEdatesep\%}
{\% number##2 % space intended
\DTMifbool{en-IE}{showyear}{\%}
{\% number##1 % space intended
\DTMEdatesep\%}
\renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}\%
{\% time style
\renewcommand*{\DTMdisplaytime}[3]{\%}
\number##1\%\DTMtimesep\DTMtwodigits{##2}\%\DTMtimesep\DTMifbool{en-IE}{showseconds}{\%}
{\DTMtimesep\DTMtwodigits{##3}}\%
{\% zone style

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

\newcommand*{\DTMenIEzonemaps}{% \DTMifcaseregional \{}% do nothing \DTMsetstyle{en-IE}\% \DTMsetstyle{en-IE-numeric}\% \DTMifcaseregional \{}% do nothing % redefine \dateenglish (or \date⟨dialect⟩) to prevent babel from resetting \today. (For this to work, babel must already have been loaded if it’s required.) \ifsundef{date\CurrentTrackedDialect} \% do nothing \ifundefined{dateenglish} \% \DTMifcaseregional \%
\csdef{date\CurrentTrackedDialect}{% 
\DTMifcaseregional
{}% do nothing
{\DTMsetstyle{en-IE}}%
{\DTMsetstyle{en-IE-numeric}}% 
}%
%
Change History

1.0

General: Initial release ... 12, 17, 19, 24, 32, 40, 47, 52, 57, 62, 67, 72

1.01

General: fixed misspelt style name 22

1.02

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1.03

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