

English Module for datetime2 Package

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Abstract

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

1. Pass `british` in the document class option list:

```
\documentclass[british]{article}

\usepackage{fontspec}
\usepackage{polyglossia}
\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 and use `polyglossia`'s language interface:

```
\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 `en-GB` date style without loading `babel` or `polyglossia`:

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

2 Base module

The `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 `englishampm`.

3 English (no region)

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

This module checks for the existence of `\dateenglish` or `\date<dialect>` (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 `english` if the `useregional` setting is set to `text`. If the setting is `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 `useregional` option is set to `text`. The `en-GB-numeric` style will automatically be set if the `useregional` 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 style. These are:

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+00:00) and BST (UTC+01:00). 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 superscript¹), `omit` (omit the ordinal suffix) and `sc` (small caps ordinal suffix). If you want a different style you can redefine `\DTMenGBfmtordsuffix` which takes one argument (the suffix). Take care if `\DTMenGBfmtordsuffix` contains fragile commands, as they will need to be protected against expansion.

¹Just 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 `datetime2` package is to provide an *expandable* text format and `\textsuperscript` isn't expandable.

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.

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 **showdow** boolean option provided by the **datetime2** package is also checked to determine whether or not to show the day of the week in the **en-GB** style.

The time zone checks the **mapzone** setting (described above). If it's set, then **\DTMusezonemapordefault** is used otherwise a numeric $\langle TZH \rangle \langle sep \rangle \langle TzM \rangle$ 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.

5 English (US)

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

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

monthdaysep The separator between the month name and the day in the **en-US** style. The default is **\space**

dayyearsep The separator between the day and the year in the **en-US** style. The default is **,\space**

datesep The separator between the date numbers in the **en-US-numeric** format.

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**.

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−03:00), AST (UTC−04:00), EST (UTC−05:00), CST (UTC−06:00), MST (UTC−07:00) and PST (UTC−08:00). If your want to use different mappings, you can redefine **\DTMuszonemaps**. 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 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.

The **en-US** style doesn't use the **showdow** setting.

The **en-US** time style uses the **englishampm**. 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 $\langle TZH \rangle : \langle TZM \rangle$ 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. This has the additional time zones NDT and NST. Note that other than NDT, daylight saving isn't taken into account.

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. Note that daylight saving isn't taken into account.

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.

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 (+01:00) and CEST (+02:00) 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 `+01:00` 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

```
1 \ProvidesDateTimeModule{english-base}[2015/03/24 v1.0 (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
2 \newcommand*{\DTMenglishordinal}[1]{%
3   \number#1 % space intended
4   \DTMenglishfmtordsuffix{%
5     \ifcase#1
6       \or \DTMenglishst
7       \or \DTMenglishhnd
8       \or \DTMenglishrd
9       \or \DTMenglishth
10      \or \DTMenglishth
11      \or \DTMenglishth
12      \or \DTMenglishth
13      \or \DTMenglishth
14      \or \DTMenglishth
15      \or \DTMenglishth
16      \or \DTMenglishth
17      \or \DTMenglishth
18      \or \DTMenglishth
```

```

19 \or \DTMenglishth
20 \or \DTMenglishth
21 \or \DTMenglishth
22 \or \DTMenglishth
23 \or \DTMenglishth
24 \or \DTMenglishth
25 \or \DTMenglishth
26 \or \DTMenglishst
27 \or \DTMenglishnd
28 \or \DTMenglishrd
29 \or \DTMenglishth
30 \or \DTMenglishth
31 \or \DTMenglishth
32 \or \DTMenglishth
33 \or \DTMenglishth
34 \or \DTMenglishth
35 \or \DTMenglishth
36 \or \DTMenglishst
37 \fi
38 }%
39 }

```

Just in case a user has some need to change the ordinal suffixes, these are provided as commands.

```

\DTMenglishst
40 \newcommand*{\DTMenglishst}{st}

\DTMenglishnd
41 \newcommand*{\DTMenglishnd}{nd}

\DTMenglishrd
42 \newcommand*{\DTMenglishrd}{rd}

\DTMenglishth
43 \newcommand*{\DTMenglishth}{th}

```

`\DTMenglishfmtordsuffix` The suffix can have a format applied to it (for example, made a superscript or converted to small caps). The default ignores the argument, which makes it consistent with T_EX's default date format. This can be changed by regional modules.

```

44 \newcommand*{\DTMenglishfmtordsuffix}[1]{}

```

`\DTMenglishmonthname` English month names.

```

45 \newcommand*{\DTMenglishmonthname}[1]{%
46 \ifcase#1
47 \or
48 January%
49 \or
50 February%

```

```

51 \or
52 March%
53 \or
54 April%
55 \or
56 May%
57 \or
58 June%
59 \or
60 July%
61 \or
62 August%
63 \or
64 September%
65 \or
66 October%
67 \or
68 November%
69 \or
70 December%
71 \fi
72 }

```

\DTMenglishshortmonthname Abbreviated English month names.

```

73 \newcommand*{\DTMenglishshortmonthname}[1]{%
74 \ifcase#1
75 \or
76 Jan%
77 \or
78 Feb%
79 \or
80 Mar%
81 \or
82 Apr%
83 \or
84 May%
85 \or
86 Jun%
87 \or
88 Jul%
89 \or
90 Aug%
91 \or
92 Sep%
93 \or
94 Oct%
95 \or
96 Nov%
97 \or
98 Dec%

```

```

99  \fi
100 }

```

\DTMenglishweekdayname English day of week names.

```

101 \newcommand*{\DTMenglishweekdayname}[1]{%
102   \ifcase#1
103     Monday%
104   \or
105     Tuesday%
106   \or
107     Wednesday%
108   \or
109     Thursday%
110   \or
111     Friday%
112   \or
113     Saturday%
114   \or
115     Sunday%
116   \fi
117 }

```

\DTMenglishweekdayname English abbreviated day of week names.

```

118 \newcommand*{\DTMenglishshortweekdayname}[1]{%
119   \ifcase#1
120     Mon%
121   \or
122     Tue%
123   \or
124     Wed%
125   \or
126     Thu%
127   \or
128     Fri%
129   \or
130     Sat%
131   \or
132     Sun%
133   \fi
134 }

```

12 hour time tags.

\DTMenglisham

```

135 \newcommand*\DTMenglisham{am}%

```

\DTMenglishpm

```

136 \newcommand*\DTMenglishpm{pm}%

```

```

\DTMenglishmidnight
137 \newcommand*\DTMenglishmidnight{midnight}%

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

am/pm time style.

\DTMenglishampfmt
139 \newcommand*\DTMenglishampfmt[1]{#1}

\DTMenglishtimesep
140 \newcommand*\DTMenglishtimesep{\DTMsep{hourmin}}

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

```

```

175     \else
176         \ifnum##1<13
177             \ifnum##1=0
178                 12%
179             \else
180                 \number##1
181             \fi
182             \DTMenglishtimesep\DTMt看odigits{##2}%
183             \ifnum##1=12
184                 \DTMt看orpdfstring
185                 {\DTMenglishampfmt{\DTMenglisham}}%
186                 {\DTMenglishpm}%
187             \else
188                 \DTMt看orpdfstring
189                 {\DTMenglishampfmt{\DTMenglisham}}%
190                 {\DTMenglisham}%
191             \fi
192         \else
193             \number\numexpr##1-12\relax
194             \DTMenglishtimesep\DTMt看odigits{##2}%
195             \ifnum##1=24
196                 \DTMt看orpdfstring
197                 {\DTMenglishampfmt{\DTMenglishpm}}%
198                 {\DTMenglisham}%
199             \else
200                 \DTMt看orpdfstring
201                 {\DTMenglishampfmt{\DTMenglishpm}}%
202                 {\DTMenglishpm}%
203             \fi
204         \fi
205     \fi
206 }%
207 }%

```

14.2 Default English Code (datetime2-english.1df)

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

Identify Module

```
208 \ProvidesDateTimeModule{english}[2015/03/24 v1.0 (NLCT)]
```

Load the base English module.

```
209 \RequireDateTimeModule{english-base}
```

Define default English text style (T_EX'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.

```

210 \DTMnewstyle
211 {english}% label
212 {% date style
213   \renewcommand*\DTMenglishfmtordsuffix}[1]{}%
214   \renewcommand*\DTMdisplaydate[4]{%
215     \DTMenglishmonthname{##2}\space\number##3, \number##1
216   }%
217   \renewcommand*\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
218 }%
219 {% time style
220   \renewcommand*\DTMenglishtimesep}{\DTMsep{hourmin}}%
221   \DTMsettimestyle{englishamp}%
222 }%
223 {% zone style
224   \DTMsetzonestyle{default}%
225 }%
226 {% full style
227   \renewcommand*\DTMdisplay}[9]{%
228     \ifDTMshowdate
229       \DTMdisplaydate{##1}{##2}{##3}{##4}%
230       \space
231       \fi
232       \DTMdisplaytime{##5}{##6}{##7}%
233       \ifDTMshowzone
234         \space
235         \DTMdisplayzone{##8}{##9}%
236       \fi
237     }%
238   \renewcommand*\DTMdisplay}{\DTMdisplay}%
239 }%

Switch the style according to the useregional setting.
240 \DTMifcaseregional
241 {}% do nothing
242 {\DTMsetstyle{english}}%
243 {\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.)
244 \ifcsundef{date\CurrentTrackedDialect}
245 {%
246   \ifundef\dateenglish
247     {% do nothing
248     }%
249   {%
250     \def\dateenglish{%
251       \DTMifcaseregional
252       }% do nothing
253     {\DTMsetstyle{english}}%
254     {\DTMsetstyle{default}}%
255   }%

```

```

256 }%
257 }%
258 {%
259 \csdef{date\CurrentTrackedDialect}{%
260 \DTMifcaseregional
261 {}% do nothing
262 {\DTMsetstyle{english}}%
263 {\DTMsetstyle{default}}%
264 }%
265 }%

```

14.3 English (GB) Code (datetime2-en-GB.1df)

This file contains the British English style. Identify this module.

```
266 \ProvidesDateTimeModule{en-GB}[2015/03/24 v1.0 (NLCT)]
```

Load base English module.

```
267 \RequireDateTimeModule{english-base}
```

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.

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

```
268 \newcommand*{\DTMenGBdaymonthsep}{\space}
```

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

```
269 \newcommand*{\DTMenGBmonthyearsep}{\space}
```

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

```
270 \newcommand*{\DTMenGBdatetimesep}{\space}
```

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

```
271 \newcommand*{\DTMenGBtimezonesep}{\space}
```

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

```
272 \newcommand*{\DTMenGBdatesep}{/}
```

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

```
273 \newcommand*{\DTMenGBtimesep}{:}
```

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

```
274 \DTMdefkey{en-GB}{daymonthsep}{\renewcommand*{\DTMenGBdaymonthsep}{#1}}
```

```
275 \DTMdefkey{en-GB}{monthyearsep}{\renewcommand*{\DTMenGBmonthyearsep}{#1}}
```

```
276 \DTMdefkey{en-GB}{datetimesep}{\renewcommand*{\DTMenGBdatetimesep}{#1}}
```

```
277 \DTMdefkey{en-GB}{timezonesep}{\renewcommand*{\DTMenGBtimezonesep}{#1}}
```

```
278 \DTMdefkey{en-GB}{datesep}{\renewcommand*{\DTMenGBdatesep}{#1}}
```

```
279 \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.

```
280 \DTMdefboolkey{en-GB}{abbr}[true]{}
```

The default is the full name.

```
281 \DTMsetbool{en-GB}{abbr}{false}
```

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

```
282 \DTMdefboolkey{en-GB}{mapzone}[true]{}
```

The default is to use mappings.

```
283 \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.)

```
284 \DTMdefboolkey{en-GB}{showdayofmonth}[true]{}
```

The default is to show the day of the month.

```
285 \DTMsetbool{en-GB}{showdayofmonth}{true}
```

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

```
286 \DTMdefboolkey{en-GB}{showyear}[true]{}
```

The default is to show the year.

```
287 \DTMsetbool{en-GB}{showyear}{true}
```

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

```
288 \newcommand*{\DTMenGBfmtordsuffix}[1]{#1}
```

Define a setting to change the ordinal suffix style.

```
289 \DTMdefchoicekey{en-GB}{ord}[\val\nr]{level,raise,omit,sc}{%
290 \ifcase\nr\relax
291 \renewcommand*{\DTMenGBfmtordsuffix}[1]{##1}%
292 \or
293 \renewcommand*{\DTMenGBfmtordsuffix}[1]{%
294 \DTMtexpdfstring{\protect\textsuperscript{##1}}{##1}}%
295 \or
296 \renewcommand*{\DTMenGBfmtordsuffix}[1]{}%
297 \or
298 \renewcommand*{\DTMenGBfmtordsuffix}[1]{%
299 \DTMtexpdfstring{\protect\textsc{##1}}{##1}}%
300 \fi
301 }
```

Define the `en-GB` style.

```
302 \DTMnewstyle
303 {en-GB}% label
304 {% date style
305 \renewcommand*{\DTMenglishfmtordsuffix}{\DTMenGBfmtordsuffix}%
306 \renewcommand*{\DTMdisplaydate}[4]{%
```

```

307     \ifDTMshowdow
308         \ifnum##4>-1
309             \DTMifbool{en-GB}{abbr}%
310             {\DTMenglishshortweekdayname{##4}}%
311             {\DTMenglishweekdayname{##4}}%
312         \space
313     \fi
314 \fi
315 \DTMifbool{en-GB}{showdayofmonth}%
316 {%
317     \DTMenglishordinal{##3}%
318     \DTMenGBdaymonthsep
319 }%
320 {}%
321 \DTMifbool{en-GB}{abbr}%
322 {\DTMenglishshortmonthname{##2}}%
323 {\DTMenglishmonthname{##2}}%
324 \DTMifbool{en-GB}{showyear}%
325 {%
326     \DTMenGBmonthyearsep\number##1 % space intended
327 }%
328 {}%
329 }%
330 \renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
331 }%
332 {% time style
333     \renewcommand*{\DTMenglishtimesep}{\DTMenGBtimesep}%
334     \DTMsettimestyle{englishamp}%
335 }%
336 {% zone style
337     \DTMresetzones
338     \DTMenGBzonemaps
339     \renewcommand*{\DTMdisplayzone}[2]{%
340         \DTMifbool{en-GB}{mapzone}%
341         {\DTMusezonemapordefault{##1}{##2}}%
342     }%
343     \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
344     \ifDTMshowzoneminutes\DTMenGBtimesep\DTMtwodigits{##2}\fi
345 }%
346 }%
347 }%
348 {% full style
349     \renewcommand*{\DTMdisplay}[9]{%
350         \ifDTMshowdate
351             \DTMdisplaydate{##1}{##2}{##3}{##4}%
352             \DTMenGBdatetimesep
353         \fi
354         \DTMdisplaytime{##5}{##6}{##7}%
355         \ifDTMshowzone
356             \DTMenGBtimezonesep

```

```

357     \DTMdisplayzone{##8}{##9}%
358     \fi
359 }%
360 \renewcommand*{\DTMDisplay}{\DTMdisplay}%
361 }%

    Define numeric style.
362 \DTMnewstyle
363 {en-GB-numeric}% label
364 {% date style
365     \renewcommand*{\DTMdisplaydate}[4]{%
366         \DTMifbool{en-GB}{showdayofmonth}%
367         {%
368             \number##3 % space intended
369             \DTMenGBdatesep
370         }%
371     }%
372     \number##2 % space intended
373     \DTMifbool{en-GB}{showyear}%
374     {%
375         \DTMenGBdatesep
376         \number##1 % space intended
377     }%
378 }%
379 }%
380 \renewcommand*{\DTMDisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
381 }%
382 {% time style
383     \renewcommand*{\DTMdisplaytime}[3]{%
384         \number##1
385         \DTMenGBtimesep\DTMtwdigits{##2}%
386         \ifDTMshowseconds\DTMenGBtimesep\DTMtwdigits{##3}\fi
387     }%
388 }%
389 {% zone style
390     \DTMresetzones
391     \DTMenGBzonemaps
392     \renewcommand*{\DTMdisplayzone}[2]{%
393         \DTMifbool{en-GB}{mapzone}%
394         {\DTMusedzonemapordefault{##1}{##2}}%
395     {%
396         \ifnum##1<0\else+\fi\DTMtwdigits{##1}%
397         \ifDTMshowzoneminutes\DTMenGBtimesep\DTMtwdigits{##2}\fi
398     }%
399 }%
400 }%
401 {% full style
402     \renewcommand*{\DTMdisplay}[9]{%
403         \ifDTMshowdate
404             \DTMdisplaydate{##1}{##2}{##3}{##4}%

```

```

405     \DTMenGBdatetimesep
406     \fi
407     \DTMdisplaytime{##5}{##6}{##7}%
408     \ifDTMshowzone
409     \DTMenGBtimezonesep
410     \DTMdisplayzone{##8}{##9}%
411     \fi
412 }%
413 \renewcommand*{\DTMDisplay}{\DTMdisplay}%
414 }

```

`\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.

```

415 \newcommand*{\DTMenGBzonemaps}{%
416   \DTMdefzonemap{00}{00}{GMT}%
417   \DTMdefzonemap{01}{00}{BST}%
418 }

```

Switch style according to the `useregional` setting.

```

419 \DTMifcaseregional
420 {}% do nothing
421 {\DTMsetstyle{en-GB}}%
422 {\DTMsetstyle{en-GB-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.)

```

423 \ifcsundef{date\CurrentTrackedDialect}
424 {% do nothing
425   \ifundef\dateenglish
426   {%
427   }%
428   {%
429     \def\dateenglish{%
430       \DTMifcaseregional
431       }% do nothing
432       {\DTMsetstyle{en-GB}}%
433       {\DTMsetstyle{en-GB-numeric}}%
434     }%
435   }%
436 }%
437 {%
438   \csdef{date\CurrentTrackedDialect}{%
439     \DTMifcaseregional
440     }% do nothing
441     {\DTMsetstyle{en-GB}}%
442     {\DTMsetstyle{en-GB-regional}}%
443   }%
444 }%

```

14.4 English (US) Code (datetime2-en-US.1df)

This file contains the US English style.

Identify this module.

```
445 \ProvidesDateTimeModule{en-US}[2015/03/24 v1.0 (NLCT)]
```

Load base English module.

```
446 \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.

```
447 \newcommand*{\DTMenUSmonthdaysep}{\space}
```

`\DTMenUSdayyearsep` The separator between the day and year for the text format.

```
448 \newcommand*{\DTMenUSdayyearsep}{,\space}
```

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

```
449 \newcommand*{\DTMenUSdatetimesep}{\space}
```

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

```
450 \newcommand*{\DTMenUStimezonesep}{\space}
```

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

```
451 \newcommand*{\DTMenUSdatesep}{/}
```

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

```
452 \newcommand*{\DTMenUStimesep}{:}
```

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

```
453 \DTMdefkey{en-US}{monthdaysep}{\renewcommand*{\DTMenUSmonthdaysep}{#1}}
```

```
454 \DTMdefkey{en-US}{dayyearsep}{\renewcommand*{\DTMenUSdayyearsep}{#1}}
```

```
455 \DTMdefkey{en-US}{datetimesep}{\renewcommand*{\DTMenUSdatetimesep}{#1}}
```

```
456 \DTMdefkey{en-US}{timezonesep}{\renewcommand*{\DTMenUStimezonesep}{#1}}
```

```
457 \DTMdefkey{en-US}{datesep}{\renewcommand*{\DTMenUSdatesep}{#1}}
```

```
458 \DTMdefkey{en-US}{timesep}{\renewcommand*{\DTMenUStimesep}{#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.

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

The default is the full name.

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

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

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

The default is no mappings.

```
462 \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.)

```
463 \DTMdefboolkey{en-US}{showdayofmonth}[true]{}%
```

The default is to show the day of the month.

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

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

```
465 \DTMdefboolkey{en-US}{showyear}[true]{}%
```

The default is to show the year.

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

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

```
467 \newcommand*{\DTMenUSfmtordsuffix}[1]{}%
```

Define a setting to change the ordinal suffix style.

```
468 \DTMdefchoicekey{en-US}{ord}[\val\nr]{level,raise,omit,sc}{%}
```

```
469 \ifcase\nr\relax
```

```
470 \renewcommand*{\DTMenUSfmtordsuffix}[1]{##1}%
```

```
471 \or
```

```
472 \renewcommand*{\DTMenUSfmtordsuffix}[1]{%}
```

```
473 \DTMtexpdfstring{\protect\textsuperscript{##1}}{##1}}%
```

```
474 \or
```

```
475 \renewcommand*{\DTMenUSfmtordsuffix}[1]{}%
```

```
476 \or
```

```
477 \renewcommand*{\DTMenUSfmtordsuffix}[1]{%}
```

```
478 \DTMtexpdfstring{\protect\textsc{##1}}{##1}}%
```

```
479 \fi
```

```
480 }
```

Define the `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.

```
481 \DTMnewstyle
```

```
482 {en-US}% label
```

```
483 {% date style
```

```
484 \renewcommand*{\DTMenglishfmtordsuffix}{\DTMenUSfmtordsuffix}%
```

```
485 \renewcommand*{\DTMdisplaydate}[4]{%
```

```
486 \DTMifbool{en-US}{abbr}%
```

```
487 {\DTMenglishshortmonthname{##2}}%
```

```
488 {\DTMenglishmonthname{##2}}%
```

```
489 \DTMifbool{en-US}{showdayofmonth}%
```

```
490 {%
```

```
491 \DTMenUSmonthdaysep
```

```
492 \DTMenglishordinal{##3}}%
```

```

493     \DTMifbool{en-US}{showyear}%
494     {%
495         \DTMenUSdayyearsep
496         \number##1 % intended
497     }%
498     {%
499     }%
500     {%
501         \DTMifbool{en-US}{showyear}%
502         {%
503             \DTMenUSmonthdaysep
504             \number##1 % intended
505         }%
506         {%
507         }%
508     }%
509     \renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
510 }%
511 {% time style
512     \renewcommand*{\DTMenglishtimesep}{\DTMenUStimesep}%
513     \DTMsettimestyle{englishampm}%
514 }%
515 {% zone style
516     \DTMresetzones
517     \DTMenUSzonemaps
518     \renewcommand*{\DTMdisplayzone}[2]{%
519         \DTMifbool{en-US}{mapzone}%
520         {\DTMusezonemapordefault{##1}{##2}}%
521         {%
522             \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
523             \ifDTMshowzoneminutes\DTMenUStimesep\DTMtwodigits{##2}\fi
524         }%
525     }%
526 }%
527 {% full style
528     \renewcommand*{\DTMdisplay}[9]{%
529         \ifDTMshowdate
530             \DTMdisplaydate{##1}{##2}{##3}{##4}%
531             \DTMenUSdatetimesep
532             \fi
533             \DTMdisplaytime{##5}{##6}{##7}%
534             \ifDTMshowzone
535                 \DTMenUStimezonesep
536                 \DTMdisplayzone{##8}{##9}%
537             \fi
538         }%
539     \renewcommand*{\DTMdisplay}{\DTMdisplay}%
540 }%

```

Define numeric style.

```

541 \DTMnewstyle
542 {en-US-numeric}% label
543 {% date style
544   \renewcommand*\DTMdisplaydate[4]{%
545     \number##2 % space intended
546     \DTMifbool{en-US}{showdayofmonth}%
547     {%
548       \DTMenUSdatesep
549       \number##3 % space intended
550     }%
551   }%
552   \DTMifbool{en-US}{showyear}%
553   {%
554     \DTMenUSdatesep
555     \number##1 % space intended
556   }%
557 }%
558 }%
559 \renewcommand*\DTMdisplaydate[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
560 }%
561 {% time style
562   \renewcommand*\DTMdisplaytime[3]{%
563     \number##1
564     \DTMenUStimesep\DTMtwodigits{##2}%
565     \ifDTMshowseconds\DTMenUStimesep\DTMtwodigits{##3}\fi
566   }%
567 }%
568 {% zone style
569   \DTMresetzones
570   \DTMenUSzonemaps
571   \renewcommand*\DTMdisplayzone[2]{%
572     \DTMifbool{en-US}{mapzone}%
573     {\DTMusezonemapordefault{##1}{##2}}%
574     {%
575       \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
576       \ifDTMshowzoneminutes\DTMenUStimesep\DTMtwodigits{##2}\fi
577     }%
578   }%
579 }%
580 {% full style
581   \renewcommand*\DTMdisplay[9]{%
582     \ifDTMshowdate
583       \DTMdisplaydate{##1}{##2}{##3}{##4}%
584       \DTMenUSdatetimesep
585       \fi
586       \DTMdisplaytime{##5}{##6}{##7}%
587       \ifDTMshowzone
588         \DTMenUStimezonesep
589         \DTMdisplayzone{##8}{##9}%
590       \fi

```



```

591 }%
592 \renewcommand*{\DTMDisplay}{\DTMdisplay}%
593 }

```

`\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.)

```

594 \newcommand*{\DTMenUSzonemaps}{%
595   \DTMdefzonemap{-3}{00}{ADT}%
596   \DTMdefzonemap{-4}{00}{AST}%
597   \DTMdefzonemap{-5}{00}{EST}%
598   \DTMdefzonemap{-6}{00}{CST}%
599   \DTMdefzonemap{-7}{00}{MST}%
600   \DTMdefzonemap{-8}{00}{PST}%
601 }

```

Switch style according to the `useregional` setting.

```

602 \DTMifcaseregional
603 {}% do nothing
604 {\DTMsetstyle{en-US}}%
605 {\DTMsetstyle{en-US-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.)

```

606 \ifcsundef{date\CurrentTrackedDialect}
607 {% do nothing
608   \ifundef\dateenglish
609   {%
610   }%
611   {%
612     \def\dateenglish{%
613       \DTMifcaseregional
614       }% do nothing
615       {\DTMsetstyle{en-US}}%
616       {\DTMsetstyle{en-US-numeric}}%
617     }%
618   }%
619 }%
620 {%
621   \csdef{date\CurrentTrackedDialect}{%
622     \DTMifcaseregional
623     }% do nothing
624     {\DTMsetstyle{en-US}}%
625     {\DTMsetstyle{en-US-regional}}%
626   }%
627 }%

```

14.5 English (Canada) Code (datetime2-en-CA.1df)

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

Identify this module.

```
628 \ProvidesDateTimeModule{en-CA}[2015/03/24 v1.0 (NLCT)]
```

Load base English module.

```
629 \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 `\dtm@datetimesep` in case other date formats are also required.

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

```
630 \newcommand*{\DTMenCAmonthdaysep}{\space}
```

`\DTMenCAdayyearsep` The separator between the day and year for the text format.

```
631 \newcommand*{\DTMenCAdayyearsep}{\space}
```

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

```
632 \newcommand*{\DTMenCADatetimesep}{\space}
```

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

```
633 \newcommand*{\DTMenCATimezonesep}{\space}
```

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

```
634 \newcommand*{\DTMenCADatesep}{/}
```

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

```
635 \newcommand*{\DTMenCATimesep}{:}
```

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

```
636 \DTMdefkey{en-CA}{monthdaysep}{\renewcommand*{\DTMenCAmonthdaysep}{#1}}
```

```
637 \DTMdefkey{en-CA}{dayyearsep}{\renewcommand*{\DTMenCAdayyearsep}{#1}}
```

```
638 \DTMdefkey{en-CA}{datetimesep}{\renewcommand*{\DTMenCADatetimesep}{#1}}
```

```
639 \DTMdefkey{en-CA}{timezonesep}{\renewcommand*{\DTMenCATimezonesep}{#1}}
```

```
640 \DTMdefkey{en-CA}{datesep}{\renewcommand*{\DTMenCADatesep}{#1}}
```

```
641 \DTMdefkey{en-CA}{timesep}{\renewcommand*{\DTMenCATimesep}{#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.

```
642 \DTMdefboolkey{en-CA}{abbr}[true]{}
```

The default is the full name.

```
643 \DTMsetbool{en-CA}{abbr}{false}
```

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

```
644 \DTMdefboolkey{en-CA}{mapzone}[true]{}
```

The default is no mappings.

```
645 \DTMsetbool{en-CA}{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.)

```
646 \DTMdefboolkey{en-CA}{showdayofmonth}[true]{}
```

The default is to show the day of the month.

```
647 \DTMsetbool{en-CA}{showdayofmonth}{true}
```

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

```
648 \DTMdefboolkey{en-CA}{showyear}[true]{}
```

The default is to show the year.

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

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

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

Define a setting to change the ordinal suffix style.

```
651 \DTMdefchoicekey{en-CA}{ord}[\val\nr]{level,raise,omit,sc}{%
652   \ifcase\nr\relax
653   \renewcommand*{\DTMenCAfmtordsuffix}[1]{##1}%
654   \or
655   \renewcommand*{\DTMenCAfmtordsuffix}[1]{%
656     \DTMtexpdfstring{\protect\textsuperscript{##1}}{##1}}%
657   \or
658   \renewcommand*{\DTMenCAfmtordsuffix}[1]{}%
659   \or
660   \renewcommand*{\DTMenCAfmtordsuffix}[1]{%
661     \DTMtexpdfstring{\protect\textsc{##1}}{##1}}%
662   \fi
663 }
```

Define the en-CA style (similar to en-US).

```
664 \DTMnewstyle
665 {en-CA}% label
666 {% date style
667   \renewcommand*{\DTMenglishfmtordsuffix}{\DTMenCAfmtordsuffix}%
668   \renewcommand*{\DTMdisplaydate}[4]{%
669     \DTMifbool{en-CA}{abbr}%
670     {\DTMenglishshortmonthname{##2}}%
671     {\DTMenglishmonthname{##2}}%
672     \DTMifbool{en-CA}{showdayofmonth}%
673     {%
674       \DTMenCAmonthdaysep
```

```

675         \DTMenglishordinal{##3}%
676         \DTMifbool{en-CA}{showyear}%
677         {%
678             \DTMenCAdayyearsep
679             \number##1 % intended
680         }%
681         {%
682     }%
683     {%
684         \DTMifbool{en-CA}{showyear}%
685         {%
686             \DTMenCAmonthdaysep
687             \number##1 % intended
688         }%
689         {%
690     }%
691     }%
692     \renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
693 }%
694 {% time style
695     \renewcommand*\DTMenglishtimesep{\DTMenCATimesep}%
696     \DTMsettimestyle{englishampm}%
697 }%
698 {% zone style
699     \DTMresetzones
700     \DTMenCAzonemaps
701     \renewcommand*{\DTMdisplayzone}[2]{%
702         \DTMifbool{en-CA}{mapzone}%
703         {\DTMusezonemapordefault{##1}{##2}}%
704         {%
705             \ifnum##1<0\else+\fi\DTMtwdigits{##1}%
706             \ifDTMshowzoneminutes\DTMenCATimesep\DTMtwdigits{##2}\fi
707         }%
708     }%
709 }%
710 {% full style
711     \renewcommand*{\DTMdisplay}[9]{%
712         \ifDTMshowdate
713             \DTMdisplaydate{##1}{##2}{##3}{##4}%
714             \DTMenCADatetimesep
715             \fi
716             \DTMdisplaytime{##5}{##6}{##7}%
717             \ifDTMshowzone
718                 \DTMenCAtimezonesep
719                 \DTMdisplayzone{##8}{##9}%
720             \fi
721         }%
722     \renewcommand*\DTMdisplay{\DTMdisplay}%
723 }%

```

Define numeric style.

```
724 \DTMnewstyle
725 {en-CA-numeric}% label
726 {% date style
727   \renewcommand*\DTMdisplaydate[4]{%
728     \number##2 % space intended
729     \DTMifbool{en-CA}{showdayofmonth}%
730     {%
731       \DTMenCAdatesep
732       \number##3 % space intended
733     }%
734   }%
735   \DTMifbool{en-CA}{showyear}%
736   {%
737     \DTMenCAdatesep
738     \number##1 % space intended
739   }%
740 }%
741 }%
742 \renewcommand*\DTMdisplaydate[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
743 }%
744 {% time style
745   \renewcommand*\DTMdisplaytime[3]{%
746     \number##1
747     \DTMenCAtimesep\DTMtwdigits{##2}%
748     \ifDTMshowseconds\DTMenCAtimesep\DTMtwdigits{##3}\fi
749   }%
750 }%
751 {% zone style
752   \DTMresetzones
753   \DTMenCAzonemaps
754   \renewcommand*\DTMdisplayzone[2]{%
755     \DTMifbool{en-CA}{mapzone}%
756     {\DTMusedzonemapordefault{##1}{##2}}%
757     {%
758       \ifnum##1<0\else+\fi\DTMtwdigits{##1}%
759       \ifDTMshowzoneminutes\DTMenCAtimesep\DTMtwdigits{##2}\fi
760     }%
761   }%
762 }%
763 {% full style
764   \renewcommand*\DTMdisplay[9]{%
765     \ifDTMshowdate
766       \DTMdisplaydate{##1}{##2}{##3}{##4}%
767       \DTMenCADatetimesep
768     \fi
769     \DTMdisplaytime{##5}{##6}{##7}%
770     \ifDTMshowzone
771       \DTMenCAtimezonese
```

```

772     \DTMdisplayzone{##8}{##9}%
773     \fi
774 }%
775 \renewcommand*{\DTMDisplay}{\DTMdisplay}%
776 }

```

`\DTMenCAzonemaps` 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.)

```

777 \newcommand*{\DTMenCAzonemaps}{%
778   \DTMdefzonemap{-2}{30}{NDT}%
779   \DTMdefzonemap{-3}{30}{NST}%
780   \DTMdefzonemap{-4}{00}{AST}%
781   \DTMdefzonemap{-5}{00}{EST}%
782   \DTMdefzonemap{-6}{00}{CST}%
783   \DTMdefzonemap{-7}{00}{MST}%
784   \DTMdefzonemap{-8}{00}{PST}%
785 }

```

Switch style according to the `useregional` setting.

```

786 \DTMifcaseregional
787 {}% do nothing
788 {\DTMsetstyle{en-CA}}%
789 {\DTMsetstyle{en-CA-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.)

```

790 \ifcsundef{date\CurrentTrackedDialect}
791 {% do nothing
792   \ifundef\dateenglish
793   {%
794   }%
795   {%
796     \def\dateenglish{%
797       \DTMifcaseregional
798       }% do nothing
799       {\DTMsetstyle{en-CA}}%
800       {\DTMsetstyle{en-CA-numeric}}%
801     }%
802   }%
803 }%
804 {%
805   \csdef{date\CurrentTrackedDialect}{%
806     \DTMifcaseregional
807     }% do nothing
808     {\DTMsetstyle{en-CA}}%
809     {\DTMsetstyle{en-CA-regional}}%
810   }%
811 }%

```

14.6 English (Australia) Code (datetime2-en-AU.1df)

This file contains the Australian English style.

Identify this module.

```
812 \ProvidesDateTimeModule{en-AU}[2015/03/24 v1.0 (NLCT)]
```

Load base English module.

```
813 \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 `\dtm@datetimesep` in case other date formats are also required.

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

```
814 \newcommand*{\DTMenAUdaymonthsep}{\space}
```

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

```
815 \newcommand*{\DTMenAUmonthyearsep}{\space}
```

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

```
816 \newcommand*{\DTMenAUdatetimesep}{\space}
```

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

```
817 \newcommand*{\DTMenAUtimezonesep}{\space}
```

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

```
818 \newcommand*{\DTMenAUdatesep}{/}
```

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

```
819 \newcommand*{\DTMenAUtimesep}{:}
```

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

```
820 \DTMdefkey{en-AU}{daymonthsep}{\renewcommand*{\DTMenAUdaymonthsep}{#1}}
```

```
821 \DTMdefkey{en-AU}{monthyearsep}{\renewcommand*{\DTMenAUmonthyearsep}{#1}}
```

```
822 \DTMdefkey{en-AU}{datetimesep}{\renewcommand*{\DTMenAUdatetimesep}{#1}}
```

```
823 \DTMdefkey{en-AU}{timezonesep}{\renewcommand*{\DTMenAUtimezonesep}{#1}}
```

```
824 \DTMdefkey{en-AU}{datesep}{\renewcommand*{\DTMenAUdatesep}{#1}}
```

```
825 \DTMdefkey{en-AU}{timesep}{\renewcommand*{\DTMenAUtimesep}{#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.

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

The default is the full name.

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

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

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

The default is no mappings.

```
829 \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.)

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

The default is to show the day of the month.

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

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

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

The default is to show the year.

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

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

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

Define a setting to change the ordinal suffix style.

```
835 \DTMdefchoicakey{en-AU}{ord}[\val\nr]{level,raise,omit,sc}{%
836 \ifcase\nr\relax
837 \renewcommand*{\DTMenAUfmtordsuffix}[1]{##1}%
838 \or
839 \renewcommand*{\DTMenAUfmtordsuffix}[1]{%
840 \DTMtexpdfstring{\protect\textsuperscript{##1}}{##1}}%
841 \or
842 \renewcommand*{\DTMenAUfmtordsuffix}[1]{}%
843 \or
844 \renewcommand*{\DTMenAUfmtordsuffix}[1]{%
845 \DTMtexpdfstring{\protect\textsc{##1}}{##1}}%
846 \fi
847 }
```

Define the `en-AU` style.

```
848 \DTMnewstyle
849 {en-AU}% label
850 {% date style
851 \renewcommand*{\DTMenglishfmtordsuffix}{\DTMenAUfmtordsuffix}%
852 \renewcommand*{\DTMdisplaydate}[4]{%
853 \ifDTMshowdow
854 \ifnum##4>-1%
855 \DTMifbool{en-AU}{abbr}%
856 {\DTMenglishshortweekdayname{##4}}%
857 {\DTMenglishweekdayname{##4}}%
858 \space
859 \fi
860 \fi
861 \DTMifbool{en-AU}{showdayofmonth}%
862 {%
```



```

863     \DTMenglishordinal{##3}%
864     \DTMenAUdaymonthsep
865 }%
866 {}%
867     \DTMifbool{en-AU}{abbr}%
868     {\DTMenglishshortmonthname{##2}}%
869     {\DTMenglishmonthname{##2}}%
870     \DTMifbool{en-AU}{showyear}%
871     {%
872         \DTMenAUmonthyearsep\number##1 % space intended
873     }%
874     {}%
875 }%
876 \renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
877 }%
878 {% time style
879     \renewcommand*{\DTMenglishtimesep}{\DTMenAUtimesep}%
880     \DTMsettimestyle{englishampm}%
881 }%
882 {% zone style
883     \DTMresetzones
884     \DTMenAUzonemaps
885     \renewcommand*{\DTMdisplayzone}[2]{%
886         \DTMifbool{en-AU}{mapzone}%
887         {\DTMuseumzonemapordefault{##1}{##2}}%
888         {%
889             \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
890             \ifDTMshowzoneminutes\DTMenAUtimesep\DTMtwodigits{##2}\fi
891         }%
892     }%
893 }%
894 {% full style
895     \renewcommand*{\DTMdisplay}[9]{%
896         \ifDTMshowdate
897             \DTMdisplaydate{##1}{##2}{##3}{##4}%
898             \DTMenAUdatetimesep
899             \fi
900             \DTMdisplaytime{##5}{##6}{##7}%
901             \ifDTMshowzone
902                 \DTMenAUtimezonesep
903                 \DTMdisplayzone{##8}{##9}%
904             \fi
905         }%
906     \renewcommand*{\DTMdisplay}{\DTMdisplay}%
907 }%

Define numeric style.
908 \DTMnewstyle
909 {en-AU-numeric}% label
910 {% date style

```

```

911 \renewcommand*\DTMdisplaydate[4]{%
912 \DTMifbool{en-AU}{showdayofmonth}%
913 {%
914 \number##3 % space intended
915 \DTMenAUdatesep
916 }%
917 {%
918 \number##2 % space intended
919 \DTMifbool{en-AU}{showyear}%
920 {%
921 \DTMenAUdatesep
922 \number##1 % space intended
923 }%
924 {%
925 }%
926 \renewcommand*\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
927 }%
928 {% time style
929 \renewcommand*\DTMdisplaytime[3]{%
930 \number##1
931 \DTMenAUtimesep\DTMtwdigits{##2}%
932 \ifDTMshowseconds\DTMenAUtimesep\DTMtwdigits{##3}\fi
933 }%
934 }%
935 {% zone style
936 \DTMresetzones
937 \DTMenAUzonemaps
938 \renewcommand*\DTMdisplayzone}[2]{%
939 \DTMifbool{en-AU}{mapzone}%
940 {\DTMusedzonemapordefault{##1}{##2}}%
941 {%
942 \ifnum##1<0\else+\fi\DTMtwdigits{##1}%
943 \ifDTMshowzoneminutes\DTMenAUtimesep\DTMtwdigits{##2}\fi
944 }%
945 }%
946 }%
947 {% full style
948 \renewcommand*\DTMdisplay}[9]{%
949 \ifDTMshowdate
950 \DTMdisplaydate{##1}{##2}{##3}{##4}%
951 \DTMenAUdatetimesep
952 \fi
953 \DTMdisplaytime{##5}{##6}{##7}%
954 \ifDTMshowzone
955 \DTMenAUtimezonesep
956 \DTMdisplayzone{##8}{##9}%
957 \fi
958 }%
959 \renewcommand*\DTMdisplay}{\DTMdisplay}%
960 }

```

`\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.

```

961 \newcommand*{\DTMenAUzonemaps}{%
962   \DTMdefzonemap{10}{30}{ACDT}% Australian Central Daylight Time
963   \DTMdefzonemap{11}{00}{AEDT}% Australian Eastern Daylight Time
964   \DTMdefzonemap{9}{00}{AWDT}% Australian Western Daylight Time
965   \DTMdefzonemap{9}{30}{ACST}% Australian Central Standard Time
966   \DTMdefzonemap{8}{45}{ACWST}% Australian Central Western Standard Time
967   \DTMdefzonemap{10}{00}{AEDT}% Australian Eastern Standard Time
968   \DTMdefzonemap{8}{00}{AWDT}% Australian Western Standard Time
969   \DTMdefzonemap{7}{00}{CXT}% Christmas Island Time
970   \DTMdefzonemap{11}{30}{NFT}% Norfolk Island Time
971 }
```

Switch style according to the `useregional` setting.

```

972 \DTMifcaseregional
973 {}% do nothing
974 {\DTMsetstyle{en-AU}}%
975 {\DTMsetstyle{en-AU-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.)

```

976 \ifcsundef{date\CurrentTrackedDialect}
977 {}% do nothing
978   \ifundef\dateenglish
979   {}%
980   }%
981   {}%
982   \def\dateenglish{%
983     \DTMifcaseregional
984     {}% do nothing
985     {\DTMsetstyle{en-AU}}%
986     {\DTMsetstyle{en-AU-numeric}}%
987   }%
988 }%
989 }%
990 {}%
991 \csdef{date\CurrentTrackedDialect}{%
992   \DTMifcaseregional
993   {}% do nothing
994   {\DTMsetstyle{en-AU}}%
995   {\DTMsetstyle{en-AU-regional}}%
996 }%
997 }%
```

14.7 English (New Zealand) Code (datetime2-en-NZ.ldf)

This file contains the New Zealand English style.
Identify this module.

998 \ProvidesDateTimeModule{en-NZ}[2015/03/24 v1.0 (NLCT)]

Load base English module.

999 \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.

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

1000 \newcommand*{\DTMenNZdaymonthsep}{\space}

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

1001 \newcommand*{\DTMenNZmonthyearsep}{\space}

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

1002 \newcommand*{\DTMenNZdatetimesep}{\space}

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

1003 \newcommand*{\DTMenNZtimezonesep}{\space}

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

1004 \newcommand*{\DTMenNZdatesep}{/}

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

1005 \newcommand*{\DTMenNZtimesep}{:}

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

1006 \DTMdefkey{en-NZ}{daymonthsep}{\renewcommand*{\DTMenNZdaymonthsep}{#1}}

1007 \DTMdefkey{en-NZ}{monthyearsep}{\renewcommand*{\DTMenNZmonthyearsep}{#1}}

1008 \DTMdefkey{en-NZ}{datetimesep}{\renewcommand*{\DTMenNZdatetimesep}{#1}}

1009 \DTMdefkey{en-NZ}{timezonesep}{\renewcommand*{\DTMenNZtimezonesep}{#1}}

1010 \DTMdefkey{en-NZ}{datesep}{\renewcommand*{\DTMenNZdatesep}{#1}}

1011 \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.

1012 \DTMdefboolkey{en-NZ}{abbr}[true]{}

The default is the full name.

1013 \DTMsetbool{en-NZ}{abbr}{false}

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

1014 \DTMdefboolkey{en-NZ}{mapzone}[true]{}

The default is no mappings.

1015 \DTMsetbool{en-NZ}{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.)

```
1016 \DTMdefboolkey{en-NZ}{showdayofmonth}[true]{}
```

The default is to show the day of the month.

```
1017 \DTMsetbool{en-NZ}{showdayofmonth}{true}
```

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

```
1018 \DTMdefboolkey{en-NZ}{showyear}[true]{}
```

The default is to show the year.

```
1019 \DTMsetbool{en-NZ}{showyear}{true}
```

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

```
1020 \newcommand*{\DTMenNZfmtordsuffix}[1]{}
```

Define a setting to change the ordinal suffix style.

```
1021 \DTMdefchoicekey{en-NZ}{ord}[\val\nr]{level,raise,omit,sc}{%
```

```
1022 \ifcase\nr\relax
```

```
1023 \renewcommand*{\DTMenNZfmtordsuffix}[1]{##1}%
```

```
1024 \or
```

```
1025 \renewcommand*{\DTMenNZfmtordsuffix}[1]{%
```

```
1026 \DTMtexpdfstring{\protect\textsuperscript{##1}}{##1}}%
```

```
1027 \or
```

```
1028 \renewcommand*{\DTMenNZfmtordsuffix}[1]{}%
```

```
1029 \or
```

```
1030 \renewcommand*{\DTMenNZfmtordsuffix}[1]{%
```

```
1031 \DTMtexpdfstring{\protect\textsc{##1}}{##1}}%
```

```
1032 \fi
```

```
1033 }
```

Define the `en-NZ` style.

```
1034 \DTMnewstyle
```

```
1035 {en-NZ}% label
```

```
1036 {% date style
```

```
1037 \renewcommand*{\DTMenglishfmtordsuffix}{\DTMenNZfmtordsuffix}%
```

```
1038 \renewcommand*{\DTMdisplaydate}[4]{%
```

```
1039 \ifDTMshowdow
```

```
1040 \ifnum##4>-1%
```

```
1041 \DTMifbool{en-NZ}{abbr}%
```

```
1042 {\DTMenglishshortweekdayname{##4}}%
```

```
1043 {\DTMenglishweekdayname{##4}}%
```

```
1044 \space
```

```
1045 \fi
```

```
1046 \fi
```

```
1047 \DTMifbool{en-NZ}{showdayofmonth}%
```

```
1048 {%
```

```
1049 \DTMenglishordinal{##3}%
```

```
1050 \DTMenNZdaymonthsep
```

```
1051 }%
```

```

1052     {}%
1053     \DTMifbool{en-NZ}{abbr}%
1054     {\DTMenglishshortmonthname{##2}}%
1055     {\DTMenglishmonthname{##2}}%
1056     \DTMifbool{en-NZ}{showyear}%
1057     {%
1058         \DTMenNZmonthyearsep\number##1 % space intended
1059     }%
1060     {}%
1061 }%
1062 \renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
1063 }%
1064 {% time style
1065     \renewcommand*{\DTMenglishtimesep}{\DTMenNZtimesep}%
1066     \DTMsettimestyle{englishampm}%
1067 }%
1068 {% zone style
1069     \DTMresetzones
1070     \DTMenNZzonemaps
1071     \renewcommand*{\DTMdisplayzone}[2]{%
1072         \DTMifbool{en-NZ}{mapzone}%
1073         {\DTMusezonemapordefault{##1}{##2}}%
1074         {%
1075             \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
1076             \ifDTMshowzoneminutes\DTMenNZtimesep\DTMtwodigits{##2}\fi
1077         }%
1078     }%
1079 }%
1080 {% full style
1081     \renewcommand*{\DTMdisplay}[9]{%
1082         \ifDTMshowdate
1083             \DTMdisplaydate{##1}{##2}{##3}{##4}%
1084             \DTMenNZdatetimesep
1085             \fi
1086             \DTMdisplaytime{##5}{##6}{##7}%
1087             \ifDTMshowzone
1088                 \DTMenNZtimezonesep
1089                 \DTMdisplayzone{##8}{##9}%
1090             \fi
1091         }%
1092     \renewcommand*{\DTMdisplay}{\DTMdisplay}%
1093 }%

```

Define numeric style.

```

1094 \DTMnewstyle
1095 {en-NZ-numeric}% label
1096 {% date style
1097     \renewcommand*{\DTMdisplaydate}[4]{%
1098         \DTMifbool{en-NZ}{showdayofmonth}%
1099         {%

```

```

1100         \number##3 % space intended
1101         \DTMenNZdatesep
1102     }%
1103     {}%
1104     \number##2 % space intended
1105     \DTMifbool{en-NZ}{showyear}%
1106     {%
1107         \DTMenNZdatesep
1108         \number##1 % space intended
1109     }%
1110     {}%
1111 }%
1112 \renewcommand*{\DTMDisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
1113 }%
1114 {% time style
1115     \renewcommand*{\DTMdisplaytime}[3]{%
1116         \number##1
1117         \DTMenNZtimesep\DTMtwdigits{##2}%
1118         \ifDTMshowseconds\DTMenNZtimesep\DTMtwdigits{##3}\fi
1119     }%
1120 }%
1121 {% zone style
1122     \DTMresetzones
1123     \DTMenNZzonemaps
1124     \renewcommand*{\DTMdisplayzone}[2]{%
1125         \DTMifbool{en-NZ}{mapzone}%
1126         {\DTMusedzonemapordefault{##1}{##2}}%
1127     }%
1128     \ifnum##1<0\else+\fi\DTMtwdigits{##1}%
1129     \ifDTMshowzoneminutes\DTMenNZtimesep\DTMtwdigits{##2}\fi
1130 }%
1131 }%
1132 }%
1133 {% full style
1134     \renewcommand*{\DTMdisplay}[9]{%
1135         \ifDTMshowdate
1136             \DTMdisplaydate{##1}{##2}{##3}{##4}%
1137             \DTMenNZdatetimesep
1138             \fi
1139             \DTMdisplaytime{##5}{##6}{##7}%
1140             \ifDTMshowzone
1141                 \DTMenNZtimezonesep
1142                 \DTMdisplayzone{##8}{##9}%
1143             \fi
1144         }%
1145     \renewcommand*{\DTMDisplay}{\DTMdisplay}%
1146 }

```

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

```

1147 \newcommand*{\DTMenNZzonemaps}{%
1148   \DTMdefzonemap{12}{00}{NZST}%
1149   \DTMdefzonemap{12}{45}{CHAST}%
1150   \DTMdefzonemap{13}{00}{NZDT}%
1151   \DTMdefzonemap{13}{45}{CHADT}%
1152 }

Switch style according to the useregional setting.
1153 \DTMifcaseregional
1154 {}% do nothing
1155 {\DTMsetstyle{en-NZ}}%
1156 {\DTMsetstyle{en-NZ-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.)
1157 \ifcsundef{date\CurrentTrackedDialect}
1158 {% do nothing
1159   \ifundef\dateenglish
1160   {%
1161   }%
1162   {%
1163     \def\dateenglish{%
1164       \DTMifcaseregional
1165       {}% do nothing
1166       {\DTMsetstyle{en-NZ}}%
1167       {\DTMsetstyle{en-NZ-numeric}}%
1168     }%
1169   }%
1170 }%
1171 {%
1172   \csdef{date\CurrentTrackedDialect}{%
1173     \DTMifcaseregional
1174     {}% do nothing
1175     {\DTMsetstyle{en-NZ}}%
1176     {\DTMsetstyle{en-NZ-regional}}%
1177   }%
1178 }%

```

14.8 English (GG) Code (datetime2-en-GG.1df)

This file contains the **en-GG** style.

Identify this module.

```
1179 \ProvidesDateTimeModule{en-GG}[2015/03/24 v1.0 (NLCT)]
```

Load base English module.

```
1180 \RequireDateTimeModule{english-base}
```

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

`\DTMenGGdaymonthsep` The separator between the day and month for the text format.
1181 `\newcommand*{\DTMenGGdaymonthsep}{\space}`

`\DTMenGGmonthyearsep` The separator between the month and year for the text format.
1182 `\newcommand*{\DTMenGGmonthyearsep}{\space}`

`\DTMenGGdatetimesep` The separator between the date and time blocks in the full format (either text or numeric).
1183 `\newcommand*{\DTMenGGdatetimesep}{\space}`

`\DTMenGGtimezonesep` The separator between the time and zone blocks in the full format (either text or numeric).
1184 `\newcommand*{\DTMenGGtimezonesep}{\space}`

`\DTMenGGdatesep` The separator for the numeric date format.
1185 `\newcommand*{\DTMenGGdatesep}{/}`

`\DTMenGGtimesep` The separator for the numeric time format.
1186 `\newcommand*{\DTMenGGtimesep}{:}`

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

1187 `\DTMdefkey{en-GG}{daymonthsep}{\renewcommand*{\DTMenGGdaymonthsep}{#1}}`
1188 `\DTMdefkey{en-GG}{monthyearsep}{\renewcommand*{\DTMenGGmonthyearsep}{#1}}`
1189 `\DTMdefkey{en-GG}{datetimesep}{\renewcommand*{\DTMenGGdatetimesep}{#1}}`
1190 `\DTMdefkey{en-GG}{timezonesep}{\renewcommand*{\DTMenGGtimezonesep}{#1}}`
1191 `\DTMdefkey{en-GG}{datesep}{\renewcommand*{\DTMenGGdatesep}{#1}}`
1192 `\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.

1193 `\DTMdefboolkey{en-GG}{abbr}[true]{}{}`

The default is the full name.

1194 `\DTMsetbool{en-GG}{abbr}{false}`

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

1195 `\DTMdefboolkey{en-GG}{mapzone}[true]{}{}`

The default is to use mappings.

1196 `\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.)

1197 `\DTMdefboolkey{en-GG}{showdayofmonth}[true]{}{}`

The default is to show the day of the month.

1198 `\DTMsetbool{en-GG}{showdayofmonth}{true}`

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

```
1199 \DTMdefboolkey{en-GG}{showyear}[true]{}
```

The default is to show the year.

```
1200 \DTMsetbool{en-GG}{showyear}{true}
```

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

```
1201 \newcommand*{\DTMenGGfmtordsuffix}[1]{#1}
```

Define a setting to change the ordinal suffix style.

```
1202 \DTMdefchoicekey{en-GG}{ord}[\val\nr]{level,raise,omit,sc}{%
1203 \ifcase\nr\relax
1204 \renewcommand*{\DTMenGGfmtordsuffix}[1]{##1}%
1205 \or
1206 \renewcommand*{\DTMenGGfmtordsuffix}[1]{%
1207 \DTMtexpdfstring{\protect\textsuperscript{##1}}{##1}}%
1208 \or
1209 \renewcommand*{\DTMenGGfmtordsuffix}[1]{}%
1210 \or
1211 \renewcommand*{\DTMenGGfmtordsuffix}[1]{%
1212 \DTMtexpdfstring{\protect\textsc{##1}}{##1}}%
1213 \fi
1214 }
```

Define the en-GG style.

```
1215 \DTMnewstyle
1216 {en-GG}% label
1217 {% date style
1218 \renewcommand*{\DTMenglishfmtordsuffix}{\DTMenGGfmtordsuffix}%
1219 \renewcommand*{\DTMdisplaydate}[4]{%
1220 \ifDTMshowdow
1221 \ifnum##4>-1%
1222 \DTMifbool{en-GG}{abbr}%
1223 {\DTMenglishshortweekdayname{##4}}%
1224 {\DTMenglishweekdayname{##4}}%
1225 \space
1226 \fi
1227 \fi
1228 \DTMifbool{en-GG}{showdayofmonth}%
1229 {%
1230 \DTMenglishordinal{##3}%
1231 \DTMenGGdaymonthsep
1232 }%
1233 {}%
1234 \DTMifbool{en-GG}{abbr}%
1235 {\DTMenglishshortmonthname{##2}}%
1236 {\DTMenglishmonthname{##2}}%
1237 \DTMifbool{en-GG}{showyear}%
1238 {%
1239 \DTMenGGmonthyearsep\number##1 % space intended
```

```

1240     }%
1241     {}%
1242 }%
1243 \renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
1244 }%
1245 {% time style
1246 \renewcommand*{\DTMenglishtimesep}{\DTMenGGtimesep}%
1247 \DTMsettimestyle{englishampm}%
1248 }%
1249 {% zone style
1250 \DTMresetzones
1251 \DTMenGGzonemaps
1252 \renewcommand*{\DTMdisplayzone}[2]{%
1253 \DTMifbool{en-GG}{mapzone}%
1254 {\DTMusezonemapordefault{##1}{##2}}%
1255 {%
1256 \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
1257 \ifDTMshowzoneminutes\DTMenGGtimesep\DTMtwodigits{##2}\fi
1258 }%
1259 }%
1260 }%
1261 {% full style
1262 \renewcommand*{\DTMdisplay}[9]{%
1263 \ifDTMshowdate
1264 \DTMdisplaydate{##1}{##2}{##3}{##4}%
1265 \DTMenGGdatetimesep
1266 \fi
1267 \DTMdisplaytime{##5}{##6}{##7}%
1268 \ifDTMshowzone
1269 \DTMenGGtimezonesep
1270 \DTMdisplayzone{##8}{##9}%
1271 \fi
1272 }%
1273 \renewcommand*{\DTMdisplay}{\DTMdisplay}%
1274 }%

```

Define numeric style.

```

1275 \DTMnewstyle
1276 {en-GG-numeric}% label
1277 {% date style
1278 \renewcommand*{\DTMdisplaydate}[4]{%
1279 \DTMifbool{en-GG}{showdayofmonth}%
1280 {%
1281 \number##3 % space intended
1282 \DTMenGGdatesep
1283 }%
1284 {}%
1285 \number##2 % space intended
1286 \DTMifbool{en-GG}{showyear}%
1287 {%

```

```

1288         \DTMenGGdatesep
1289         \number##1 % space intended
1290     }%
1291     {}%
1292 }%
1293 \renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
1294 }%
1295 {% time style
1296     \renewcommand*{\DTMdisplaytime}[3]{%
1297         \number##1
1298         \DTMenGGtimesep\DTMtwodigits{##2}%
1299         \ifDTMshowseconds\DTMenGGtimesep\DTMtwodigits{##3}\fi
1300     }%
1301 }%
1302 {% zone style
1303     \DTMresetzones
1304     \DTMenGGzonemaps
1305     \renewcommand*{\DTMdisplayzone}[2]{%
1306         \DTMifbool{en-GG}{mapzone}%
1307         {\DTMusedzonemapordefault{##1}{##2}}%
1308         {%
1309             \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
1310             \ifDTMshowzoneminutes\DTMenGGtimesep\DTMtwodigits{##2}\fi
1311         }%
1312     }%
1313 }%
1314 {% full style
1315     \renewcommand*{\DTMdisplay}[9]{%
1316         \ifDTMshowdate
1317             \DTMdisplaydate{##1}{##2}{##3}{##4}%
1318             \DTMenGGdatetimesep
1319             \fi
1320             \DTMdisplaytime{##5}{##6}{##7}%
1321             \ifDTMshowzone
1322                 \DTMenGGtimezonesep
1323                 \DTMdisplayzone{##8}{##9}%
1324             \fi
1325         }%
1326     \renewcommand*{\DTMdisplay}{\DTMdisplay}%
1327 }

```

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

```

1328 \newcommand*{\DTMenGGzonemaps}{%
1329     \DTMdefzonemap{00}{00}{GMT}%
1330     \DTMdefzonemap{01}{00}{BST}%
1331 }

```

Switch style according to the `useregional` setting.

```

1332 \DTMifcaseregional
1333 {}% do nothing
1334 {\DTMsetstyle{en-GG}}%
1335 {\DTMsetstyle{en-GG-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.)
1336 \ifcsundef{date\CurrentTrackedDialect}
1337 {}% do nothing
1338 \ifundef\dateenglish
1339 {}%
1340 }%
1341 {}%
1342 \def\dateenglish{%
1343 \DTMifcaseregional
1344 {}% do nothing
1345 {\DTMsetstyle{en-GG}}%
1346 {\DTMsetstyle{en-GG-numeric}}%
1347 }%
1348 }%
1349 }%
1350 {}%
1351 \csdef{date\CurrentTrackedDialect}{%
1352 \DTMifcaseregional
1353 {}% do nothing
1354 {\DTMsetstyle{en-GG}}%
1355 {\DTMsetstyle{en-GG-regional}}%
1356 }%
1357 }%

```

14.9 English (JE) Code (datetime2-en-JE.1df)

This file contains the **en-JE** style.

Identify this module.

```
1358 \ProvidesDateTimeModule{en-JE}[2015/03/24 v1.0 (NLCT)]
```

Load base English module.

```
1359 \RequireDateTimeModule{english-base}
```

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

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

```
1360 \newcommand*{\DTMenJEdaymonthsep}{\space}
```

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

```
1361 \newcommand*{\DTMenJEmonthyearsep}{\space}
```

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

1362 `\newcommand*{\DTMenJEdatetimesep}{\space}`

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

1363 `\newcommand*{\DTMenJetimezonesep}{\space}`

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

1364 `\newcommand*{\DTMenJEdatesep}{/}`

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

1365 `\newcommand*{\DTMenJetimesep}{:}`

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

1366 `\DTMdefkey{en-JE}{daymonthsep}{\renewcommand*{\DTMenJEdaymonthsep}{#1}}`

1367 `\DTMdefkey{en-JE}{monthyearsep}{\renewcommand*{\DTMenJEmonthyearsep}{#1}}`

1368 `\DTMdefkey{en-JE}{datetimesep}{\renewcommand*{\DTMenJEdatetimesep}{#1}}`

1369 `\DTMdefkey{en-JE}{timezonesep}{\renewcommand*{\DTMenJetimezonesep}{#1}}`

1370 `\DTMdefkey{en-JE}{datesep}{\renewcommand*{\DTMenJEdatesep}{#1}}`

1371 `\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.

1372 `\DTMdefboolkey{en-JE}{abbr}[true]{}`

The default is the full name.

1373 `\DTMsetbool{en-JE}{abbr}{false}`

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

1374 `\DTMdefboolkey{en-JE}{mapzone}[true]{}`

The default is to use mappings.

1375 `\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.)

1376 `\DTMdefboolkey{en-JE}{showdayofmonth}[true]{}`

The default is to show the day of the month.

1377 `\DTMsetbool{en-JE}{showdayofmonth}{true}`

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

1378 `\DTMdefboolkey{en-JE}{showyear}[true]{}`

The default is to show the year.

1379 `\DTMsetbool{en-JE}{showyear}{true}`

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

1380 `\newcommand*{\DTMenJEfmtordsuffix}[1]{#1}`

Define a setting to change the ordinal suffix style.

```

1381 \DTMdefchoicekey{en-JE}{ord}[\val\nr]{level,raise,omit,sc}{%
1382 \ifcase\nr\relax
1383   \renewcommand*{\DTMenJEfmtordsuffix}[1]{##1}%
1384 \or
1385   \renewcommand*{\DTMenJEfmtordsuffix}[1]{%
1386     \DTMtexpdfstring{\protect\textsuperscript{##1}}{##1}}%
1387 \or
1388   \renewcommand*{\DTMenJEfmtordsuffix}[1]{}%
1389 \or
1390   \renewcommand*{\DTMenJEfmtordsuffix}[1]{%
1391     \DTMtexpdfstring{\protect\textsc{##1}}{##1}}%
1392 \fi
1393 }

```

Define the en-JE style.

```

1394 \DTMnewstyle
1395 {en-JE}% label
1396 {% date style
1397   \renewcommand*{\DTMenglishfmtordsuffix}{\DTMenJEfmtordsuffix}%
1398   \renewcommand*{\DTMdisplaydate}[4]{%
1399     \ifDTMshowdow
1400       \ifnum##4>-1%
1401         \DTMifbool{en-JE}{abbr}%
1402         {\DTMenglishshortweekdayname{##4}}%
1403         {\DTMenglishweekdayname{##4}}%
1404         \space
1405       \fi
1406     \fi
1407     \DTMifbool{en-JE}{showdayofmonth}%
1408     {%
1409       \DTMenglishordinal{##3}%
1410       \DTMenJEdaymonthsep
1411     }%
1412     {}%
1413     \DTMifbool{en-JE}{abbr}%
1414     {\DTMenglishshortmonthname{##2}}%
1415     {\DTMenglishmonthname{##2}}%
1416     \DTMifbool{en-JE}{showyear}%
1417     {%
1418       \DTMenJEmonthyearsep\number##1 % space intended
1419     }%
1420     {}%
1421   }%
1422   \renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
1423 }%
1424 {% time style
1425   \renewcommand*{\DTMenglishtimesep}{\DTMenJetimesep}%
1426   \DTMsettimestyle{englishampm}%
1427 }%

```

```

1428 {% zone style
1429     \DTMresetzones
1430     \DTMenJEzonemaps
1431     \renewcommand*\DTMdisplayzone}[2]{%
1432         \DTMifbool{en-JE}{mapzone}%
1433         {\DTMuseumzonemapordefault{##1}{##2}}%
1434         {%
1435             \ifnum##1<0\else+\fi\DTMtwdigits{##1}%
1436             \ifDTMshowzoneminutes\DTMenJetimesep\DTMtwdigits{##2}\fi
1437         }%
1438     }%
1439 }%
1440 {% full style
1441     \renewcommand*\DTMdisplay}[9]{%
1442         \ifDTMshowdate
1443             \DTMdisplaydate{##1}{##2}{##3}{##4}%
1444             \DTMenJEdatetimesep
1445             \fi
1446             \DTMdisplaytime{##5}{##6}{##7}%
1447             \ifDTMshowzone
1448                 \DTMenJetimesep
1449                 \DTMdisplayzone{##8}{##9}%
1450             \fi
1451         }%
1452     \renewcommand*\DTMDisplay{\DTMdisplay}%
1453 }%

```

Define numeric style.

```

1454 \DTMnewstyle
1455 {en-JE-numeric}% label
1456 {% date style
1457     \renewcommand*\DTMdisplaydate[4]{%
1458         \DTMifbool{en-JE}{showdayofmonth}%
1459         {%
1460             \number##3 % space intended
1461             \DTMenJEdatesep
1462         }%
1463         {%
1464             \number##2 % space intended
1465             \DTMifbool{en-JE}{showyear}%
1466             {%
1467                 \DTMenJEdatesep
1468                 \number##1 % space intended
1469             }%
1470         }%
1471     }%
1472     \renewcommand*\DTMDisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
1473 }%
1474 {% time style
1475     \renewcommand*\DTMdisplaytime[3]{%

```



```

1476     \number##1
1477     \DTMenJEtimesep\DTMtwdigits{##2}%
1478     \ifDTMshowseconds\DTMenJEtimesep\DTMtwdigits{##3}\fi
1479 }%
1480 }%
1481 {% zone style
1482     \DTMresetzones
1483     \DTMenJEzonemaps
1484     \renewcommand*{\DTMdisplayzone}[2]{%
1485         \DTMifbool{en-JE}{mapzone}%
1486         {\DTMusezonemapordefault{##1}{##2}}%
1487         {%
1488             \ifnum##1<0\else+\fi\DTMtwdigits{##1}%
1489             \ifDTMshowzoneminutes\DTMenJEtimesep\DTMtwdigits{##2}\fi
1490         }%
1491     }%
1492 }%
1493 {% full style
1494     \renewcommand*{\DTMdisplay}[9]{%
1495         \ifDTMshowdate
1496             \DTMdisplaydate{##1}{##2}{##3}{##4}%
1497             \DTMenJEdatetimesep
1498             \fi
1499             \DTMdisplaytime{##5}{##6}{##7}%
1500             \ifDTMshowzone
1501                 \DTMenJEtimestonesep
1502                 \DTMdisplayzone{##8}{##9}%
1503             \fi
1504         }%
1505     \renewcommand*{\DTMDisplay}{\DTMdisplay}%
1506 }

```

`\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.

```

1507 \newcommand*{\DTMenJEzonemaps}{%
1508     \DTMdefzonemap{00}{00}{GMT}%
1509     \DTMdefzonemap{01}{00}{BST}%
1510 }

```

Switch style according to the `useregional` setting.

```

1511 \DTMifcaseregional
1512 {}% do nothing
1513 {\DTMsetstyle{en-JE}}%
1514 {\DTMsetstyle{en-JE-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.)

```

1515 \ifcsundef{date\CurrentTrackedDialect}
1516 {% do nothing
1517     \ifundef\dateenglish

```

```

1518 {%
1519 }%
1520 {%
1521 \def\dateenglish{%
1522 \DTMifcaseregional
1523 }% do nothing
1524 {\DTMsetstyle{en-JE}}%
1525 {\DTMsetstyle{en-JE-numeric}}%
1526 }%
1527 }%
1528 }%
1529 {%
1530 \csdef{date\CurrentTrackedDialect}{%
1531 \DTMifcaseregional
1532 }% do nothing
1533 {\DTMsetstyle{en-JE}}%
1534 {\DTMsetstyle{en-JE-regional}}%
1535 }%
1536 }%

```

14.10 English (IM) Code (datetime2-en-IM.ldf)

This file contains the `en-IM` style.

Identify this module.

```
1537 \ProvidesDateTimeModule{en-IM}[2015/03/24 v1.0 (NLCT)]
```

Load base English module.

```
1538 \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.

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

```
1539 \newcommand*{\DTMenIMdaymonthsep}{\space}
```

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

```
1540 \newcommand*{\DTMenIMmonthyearsep}{\space}
```

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

```
1541 \newcommand*{\DTMenIMdatetimesep}{\space}
```

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

```
1542 \newcommand*{\DTMenIMtimezonesep}{\space}
```

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

```
1543 \newcommand*{\DTMenIMdatesep}{/}
```

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

1544 `\newcommand*{\DTMenIMtimesep}{:}`

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

1545 `\DTMdefkey{en-IM}{daymonthsep}{\renewcommand*{\DTMenIMdaymonthsep}{#1}}`

1546 `\DTMdefkey{en-IM}{monthyearsep}{\renewcommand*{\DTMenIMmonthyearsep}{#1}}`

1547 `\DTMdefkey{en-IM}{datetimesep}{\renewcommand*{\DTMenIMdatetimesep}{#1}}`

1548 `\DTMdefkey{en-IM}{timezonesep}{\renewcommand*{\DTMenIMtimezonesep}{#1}}`

1549 `\DTMdefkey{en-IM}{datesep}{\renewcommand*{\DTMenIMdatesep}{#1}}`

1550 `\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.

1551 `\DTMdefboolkey{en-IM}{abbr}[true]{}`

The default is the full name.

1552 `\DTMsetbool{en-IM}{abbr}{false}`

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

1553 `\DTMdefboolkey{en-IM}{mapzone}[true]{}`

The default is to use mappings.

1554 `\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.)

1555 `\DTMdefboolkey{en-IM}{showdayofmonth}[true]{}`

The default is to show the day of the month.

1556 `\DTMsetbool{en-IM}{showdayofmonth}{true}`

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

1557 `\DTMdefboolkey{en-IM}{showyear}[true]{}`

The default is to show the year.

1558 `\DTMsetbool{en-IM}{showyear}{true}`

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

1559 `\newcommand*{\DTMenIMfmtordsuffix}[1]{#1}`

Define a setting to change the ordinal suffix style.

1560 `\DTMdefchoicekey{en-IM}{ord}[\val\nr]{level,raise,omit,sc}{%`

1561 `\ifcase\nr\relax`

1562 `\renewcommand*{\DTMenIMfmtordsuffix}[1]{##1}%`

1563 `\or`

1564 `\renewcommand*{\DTMenIMfmtordsuffix}[1]{%`

1565 `\DTMtexpdfstring{\protect##1}{##1}}%`

1566 `\or`

1567 `\renewcommand*{\DTMenIMfmtordsuffix}[1]{}%`

1568 `\or`

```

1569 \renewcommand*{\DTMenIMfmtordsuffix}[1]{%
1570 \DTMtexpdfstring{\protect\textsc{##1}}{##1}}%
1571 \fi
1572 }

Define the en-IM style.

1573 \DTMnewstyle
1574 {en-IM}% label
1575 {% date style
1576 \renewcommand*{\DTMenglishfmtordsuffix}{\DTMenIMfmtordsuffix}%
1577 \renewcommand*{\DTMdisplaydate}[4]{%
1578 \ifDTMshowdown
1579 \ifnum##4>-1%
1580 \DTMifbool{en-IM}{abbr}%
1581 {\DTMenglishshortweekdayname{##4}}%
1582 {\DTMenglishweekdayname{##4}}%
1583 \space
1584 \fi
1585 \fi
1586 \DTMifbool{en-IM}{showdayofmonth}%
1587 {%
1588 \DTMenglishordinal{##3}%
1589 \DTMenIMdaymonthsep
1590 }%
1591 {}%
1592 \DTMifbool{en-IM}{abbr}%
1593 {\DTMenglishshortmonthname{##2}}%
1594 {\DTMenglishmonthname{##2}}%
1595 \DTMifbool{en-IM}{showyear}%
1596 {%
1597 \DTMenIMmonthyearsep\number##1 % space intended
1598 }%
1599 {}%
1600 }%
1601 \renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
1602 }%
1603 {% time style
1604 \renewcommand*{\DTMenglishtimesep}{\DTMenIMtimesep}%
1605 \DTMsettimestyle{englishampm}%
1606 }%
1607 {% zone style
1608 \DTMresetzones
1609 \DTMenIMzonemaps
1610 \renewcommand*{\DTMdisplayzone}[2]{%
1611 \DTMifbool{en-IM}{mapzone}%
1612 {\DTMusezonemapordefault{##1}{##2}}%
1613 {%
1614 \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
1615 \ifDTMshowzoneminutes\DTMenIMtimesep\DTMtwodigits{##2}\fi
1616 }%

```

```

1617 }%
1618 }%
1619 {% full style
1620 \renewcommand*\DTMdisplay}[9]{%
1621 \ifDTMshowdate
1622 \DTMdisplaydate{##1}{##2}{##3}{##4}%
1623 \DTMenIMdatetimesep
1624 \fi
1625 \DTMdisplaytime{##5}{##6}{##7}%
1626 \ifDTMshowzone
1627 \DTMenIMtimezonesep
1628 \DTMdisplayzone{##8}{##9}%
1629 \fi
1630 }%
1631 \renewcommand*\DTMDisplay{\DTMdisplay}%
1632 }%

Define numeric style.
1633 \DTMnewstyle
1634 {en-IM-numeric}% label
1635 {% date style
1636 \renewcommand*\DTMdisplaydate[4]{%
1637 \DTMifbool{en-IM}{showdayofmonth}%
1638 {%
1639 \number##3 % space intended
1640 \DTMenIMdatesep
1641 }%
1642 }%
1643 \number##2 % space intended
1644 \DTMifbool{en-IM}{showyear}%
1645 {%
1646 \DTMenIMdatesep
1647 \number##1 % space intended
1648 }%
1649 }%
1650 }%
1651 \renewcommand*\DTMDisplaydate[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
1652 }%
1653 {% time style
1654 \renewcommand*\DTMdisplaytime[3]{%
1655 \number##1
1656 \DTMenIMtimesep\DTMtwodigits{##2}%
1657 \ifDTMshowseconds\DTMenIMtimesep\DTMtwodigits{##3}\fi
1658 }%
1659 }%
1660 {% zone style
1661 \DTMresetzones
1662 \DTMenIMzonemaps
1663 \renewcommand*\DTMdisplayzone[2]{%
1664 \DTMifbool{en-IM}{mapzone}%

```

```

1665     {\DTMusedzonemapordefault{##1}{##2}}%
1666     {%
1667         \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
1668         \ifDTMshowzoneminutes\DTMenIMtimesep\DTMtwodigits{##2}\fi
1669     }%
1670 }%
1671 }%
1672 {% full style
1673     \renewcommand*{\DTMdisplay}[9]{%
1674         \ifDTMshowdate
1675             \DTMdisplaydate{##1}{##2}{##3}{##4}%
1676             \DTMenIMdatetimesep
1677         \fi
1678         \DTMdisplaytime{##5}{##6}{##7}%
1679         \ifDTMshowzone
1680             \DTMenIMtimezonesep
1681             \DTMdisplayzone{##8}{##9}%
1682         \fi
1683     }%
1684     \renewcommand*{\DTMDisplay}{\DTMdisplay}%
1685 }

```

`\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.

```

1686 \newcommand*{\DTMenIMzonemaps}{%
1687     \DTMdefzonemap{00}{00}{GMT}%
1688     \DTMdefzonemap{01}{00}{BST}%
1689 }

```

Switch style according to the `useregional` setting.

```

1690 \DTMifcaseregional
1691 {}% do nothing
1692 {\DTMsetstyle{en-IM}}%
1693 {\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.)

```

1694 \ifcsundef{date\CurrentTrackedDialect}
1695 {% do nothing
1696     \ifundef\dateenglish
1697     {%
1698     }%
1699     {%
1700         \def\dateenglish{%
1701             \DTMifcaseregional
1702             {}% do nothing
1703             {\DTMsetstyle{en-IM}}%
1704             {\DTMsetstyle{en-IM-numeric}}%
1705         }%
1706     }%

```

```

1707 }%
1708 {%
1709   \csdef{date\CurrentTrackedDialect}{%
1710     \DTMifcaseregional
1711     {}% do nothing
1712     {\DTMsetstyle{en-IM}}}%
1713     {\DTMsetstyle{en-IM-regional}}}%
1714   }%
1715 }%

```

14.11 English (MT) Code (datetime2-en-MT.1df)

This file contains the **en-MT** style.

Identify this module.

```
1716 \ProvidesDateTimeModule{en-MT}[2015/03/24 v1.0 (NLCT)]
```

Load base English module.

```
1717 \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.

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

```
1718 \newcommand*{\DTMenMTdaymonthsep}{\space}
```

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

```
1719 \newcommand*{\DTMenMTmonthyearsep}{\space}
```

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

```
1720 \newcommand*{\DTMenMTdatetimesep}{\space}
```

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

```
1721 \newcommand*{\DTMenMTtimezonesep}{\space}
```

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

```
1722 \newcommand*{\DTMenMTdatesep}{/}
```

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

```
1723 \newcommand*{\DTMenMTtimesep}{:}
```

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

```

1724 \DTMdefkey{en-MT}{daymonthsep}{\renewcommand*{\DTMenMTdaymonthsep}{#1}}
1725 \DTMdefkey{en-MT}{monthyearsep}{\renewcommand*{\DTMenMTmonthyearsep}{#1}}
1726 \DTMdefkey{en-MT}{datetimesep}{\renewcommand*{\DTMenMTdatetimesep}{#1}}
1727 \DTMdefkey{en-MT}{timezonesep}{\renewcommand*{\DTMenMTtimezonesep}{#1}}
1728 \DTMdefkey{en-MT}{datesep}{\renewcommand*{\DTMenMTdatesep}{#1}}
1729 \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.

```
1730 \DTMdefboolkey{en-MT}{abbr}[true]{}
```

The default is the full name.

```
1731 \DTMsetbool{en-MT}{abbr}{false}
```

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

```
1732 \DTMdefboolkey{en-MT}{mapzone}[true]{}
```

The default is to use mappings.

```
1733 \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.)

```
1734 \DTMdefboolkey{en-MT}{showdayofmonth}[true]{}
```

The default is to show the day of the month.

```
1735 \DTMsetbool{en-MT}{showdayofmonth}{true}
```

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

```
1736 \DTMdefboolkey{en-MT}{showyear}[true]{}
```

The default is to show the year.

```
1737 \DTMsetbool{en-MT}{showyear}{true}
```

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

```
1738 \newcommand*{\DTMenMTfmtordsuffix}[1]{}
```

Define a setting to change the ordinal suffix style.

```
1739 \DTMdefchoicekey{en-MT}{ord}[\val\nr]{level,raise,omit,sc}{%
```

```
1740 \ifcase\nr\relax
```

```
1741 \renewcommand*{\DTMenMTfmtordsuffix}[1]{##1}%
```

```
1742 \or
```

```
1743 \renewcommand*{\DTMenMTfmtordsuffix}[1]{%
```

```
1744 \DTMtexpdfstring{\protect\textsuperscript{##1}}{##1}}%
```

```
1745 \or
```

```
1746 \renewcommand*{\DTMenMTfmtordsuffix}[1]{}%
```

```
1747 \or
```

```
1748 \renewcommand*{\DTMenMTfmtordsuffix}[1]{%
```

```
1749 \DTMtexpdfstring{\protect\textsc{##1}}{##1}}%
```

```
1750 \fi
```

```
1751 }
```

Define the `en-MT` style.

```
1752 \DTMnewstyle
```

```
1753 {en-MT}% label
```

```
1754 {% date style
```

```
1755 \renewcommand*{\DTMenglishfmtordsuffix}{\DTMenMTfmtordsuffix}%
```

```
1756 \renewcommand*{\DTMdisplaydate}[4]{%
```



```

1757 \ifDTMshowdow
1758 \ifnum##4>-1%
1759 \DTMifbool{en-MT}{abbr}%
1760 {\DTMenglishshortweekdayname{##4}}%
1761 {\DTMenglishweekdayname{##4}}%
1762 \space
1763 \fi
1764 \fi
1765 \DTMifbool{en-MT}{showdayofmonth}%
1766 {%
1767 \DTMenglishordinal{##3}%
1768 \DTMenMTdaymonthsep
1769 }%
1770 {}%
1771 \DTMifbool{en-MT}{abbr}%
1772 {\DTMenglishshortmonthname{##2}}%
1773 {\DTMenglishmonthname{##2}}%
1774 \DTMifbool{en-MT}{showyear}%
1775 {%
1776 \DTMenMTmonthyearsep\number##1 % space intended
1777 }%
1778 {}%
1779 }%
1780 \renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
1781 }%
1782 {% time style
1783 \renewcommand*\DTMenglishtimesep{\DTMenMTtimesep}%
1784 \DTMsettimestyle{englishampm}%
1785 }%
1786 {% zone style
1787 \DTMresetzones
1788 \DTMenMTzonemaps
1789 \renewcommand*{\DTMdisplayzone}[2]{%
1790 \DTMifbool{en-MT}{mapzone}%
1791 {\DTMusezonemapordefault{##1}{##2}}%
1792 {%
1793 \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
1794 \ifDTMshowzoneminutes\DTMenMTtimesep\DTMtwodigits{##2}\fi
1795 }%
1796 }%
1797 }%
1798 {% full style
1799 \renewcommand*{\DTMdisplay}[9]{%
1800 \ifDTMshowdate
1801 \DTMdisplaydate{##1}{##2}{##3}{##4}%
1802 \DTMenMTdatetimesep
1803 \fi
1804 \DTMdisplaytime{##5}{##6}{##7}%
1805 \ifDTMshowzone
1806 \DTMenMTtimezonesep

```

```

1807     \DTMdisplayzone{##8}{##9}%
1808     \fi
1809 }%
1810 \renewcommand*{\DTMDisplay}{\DTMdisplay}%
1811 }%

    Define numeric style.
1812 \DTMnewstyle
1813 {en-MT-numeric}% label
1814 {% date style
1815     \renewcommand*{\DTMdisplaydate}[4]{%
1816         \DTMifbool{en-MT}{showdayofmonth}%
1817         {%
1818             \number##3 % space intended
1819             \DTMenMTdatesep
1820         }%
1821     }%
1822     \number##2 % space intended
1823     \DTMifbool{en-MT}{showyear}%
1824     {%
1825         \DTMenMTdatesep
1826         \number##1 % space intended
1827     }%
1828 }%
1829 }%
1830 \renewcommand*{\DTMDisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
1831 }%
1832 {% time style
1833     \renewcommand*{\DTMdisplaytime}[3]{%
1834         \number##1
1835         \DTMenMTtimesep\DTMtwodigits{##2}%
1836         \ifDTMshowseconds\DTMenMTtimesep\DTMtwodigits{##3}\fi
1837     }%
1838 }%
1839 {% zone style
1840     \DTMresetzones
1841     \DTMenMTzonemaps
1842     \renewcommand*{\DTMdisplayzone}[2]{%
1843         \DTMifbool{en-MT}{mapzone}%
1844         {\DTMusedzonemapordefault{##1}{##2}}%
1845     {%
1846         \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
1847         \ifDTMshowzoneminutes\DTMenMTtimesep\DTMtwodigits{##2}\fi
1848     }%
1849 }%
1850 }%
1851 {% full style
1852     \renewcommand*{\DTMdisplay}[9]{%
1853         \ifDTMshowdate
1854             \DTMdisplaydate{##1}{##2}{##3}{##4}%

```

```

1855     \DTMenMTdatetimesep
1856     \fi
1857     \DTMdisplaytime{##5}{##6}{##7}%
1858     \ifDTMshowzone
1859     \DTMenMTtimezonesep
1860     \DTMdisplayzone{##8}{##9}%
1861     \fi
1862 }%
1863 \renewcommand*{\DTMDisplay}{\DTMdisplay}%
1864 }

```

`\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.

```

1865 \newcommand*{\DTMenMTzonemaps}{%
1866   \DTMdefzonemap{02}{00}{CEST}%
1867   \DTMdefzonemap{01}{00}{CET}%
1868 }

```

Switch style according to the `useregional` setting.

```

1869 \DTMifcaseregional
1870 {}% do nothing
1871 {\DTMsetstyle{en-MT}}%
1872 {\DTMsetstyle{en-MT-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.)

```

1873 \ifcsundef{date\CurrentTrackedDialect}
1874 {% do nothing
1875   \ifundef\dateenglish
1876   {%
1877   }%
1878   {%
1879     \def\dateenglish{%
1880       \DTMifcaseregional
1881       {}% do nothing
1882       {\DTMsetstyle{en-MT}}%
1883       {\DTMsetstyle{en-MT-numeric}}%
1884     }%
1885   }%
1886 }%
1887 {%
1888   \csdef{date\CurrentTrackedDialect}{%
1889     \DTMifcaseregional
1890     {}% do nothing
1891     {\DTMsetstyle{en-MT}}%
1892     {\DTMsetstyle{en-MT-regional}}%
1893   }%
1894 }%

```

14.12 English (IE) Code (datetime2-en-IE.1df)

This file contains the **en-IE** style.

Identify this module.

```
1895 \ProvidesDateTimeModule{en-IE}[2015/03/24 v1.0 (NLCT)]
```

Load base English module.

```
1896 \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.

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

```
1897 \newcommand*{\DTMenIEdaymonthsep}{\space}
```

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

```
1898 \newcommand*{\DTMenIEmonthyearsep}{\space}
```

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

```
1899 \newcommand*{\DTMenIEdatetimesep}{\space}
```

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

```
1900 \newcommand*{\DTMenIetimezonesep}{\space}
```

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

```
1901 \newcommand*{\DTMenIEDatesep}{/}
```

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

```
1902 \newcommand*{\DTMenIetimesep}{:}
```

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

```
1903 \DTMdefkey{en-IE}{daymonthsep}{\renewcommand*{\DTMenIEdaymonthsep}{#1}}
```

```
1904 \DTMdefkey{en-IE}{monthyearsep}{\renewcommand*{\DTMenIEmonthyearsep}{#1}}
```

```
1905 \DTMdefkey{en-IE}{datetimesep}{\renewcommand*{\DTMenIEdatetimesep}{#1}}
```

```
1906 \DTMdefkey{en-IE}{timezonesep}{\renewcommand*{\DTMenIetimezonesep}{#1}}
```

```
1907 \DTMdefkey{en-IE}{datesep}{\renewcommand*{\DTMenIEDatesep}{#1}}
```

```
1908 \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.

```
1909 \DTMdefboolkey{en-IE}{abbr}[true]{}
```

The default is the full name.

```
1910 \DTMsetbool{en-IE}{abbr}{false}
```

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

```
1911 \DTMdefboolkey{en-IE}{mapzone}[true]{}
```

The default is to use mappings.

```
1912 \DTMsetbool{en-IE}{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.)

```
1913 \DTMdefboolkey{en-IE}{showdayofmonth}[true]{}
```

The default is to show the day of the month.

```
1914 \DTMsetbool{en-IE}{showdayofmonth}{true}
```

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

```
1915 \DTMdefboolkey{en-IE}{showyear}[true]{}
```

The default is to show the year.

```
1916 \DTMsetbool{en-IE}{showyear}{true}
```

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

```
1917 \newcommand*{\DTMenIEfmtordsuffix}[1]{#1}
```

Define a setting to change the ordinal suffix style.

```
1918 \DTMdefchoicekey{en-IE}{ord}{\val\nr}{level,raise,omit,sc}{%
```

```
1919 \ifcase\nr\relax
```

```
1920 \renewcommand*{\DTMenIEfmtordsuffix}[1]{##1}%
```

```
1921 \or
```

```
1922 \renewcommand*{\DTMenIEfmtordsuffix}[1]{%
```

```
1923 \DTMtexpdfstring{\protect\textsuperscript{##1}}{##1}}%
```

```
1924 \or
```

```
1925 \renewcommand*{\DTMenIEfmtordsuffix}[1]{}%
```

```
1926 \or
```

```
1927 \renewcommand*{\DTMenIEfmtordsuffix}[1]{%
```

```
1928 \DTMtexpdfstring{\protect\textsc{##1}}{##1}}%
```

```
1929 \fi
```

```
1930 }
```

Define the en-IE style.

```
1931 \DTMnewstyle
```

```
1932 {en-IE}% label
```

```
1933 {% date style
```

```
1934 \renewcommand*{\DTMenglishfmtordsuffix}{\DTMenIEfmtordsuffix}%
```

```
1935 \renewcommand*{\DTMdisplaydate}[4]{%
```

```
1936 \ifDTMshowdow
```

```
1937 \ifnum##4>-1%
```

```
1938 \DTMifbool{en-IE}{abbr}%
```

```
1939 {\DTMenglishshortweekdayname{##4}}%
```

```
1940 {\DTMenglishweekdayname{##4}}%
```

```
1941 \space
```

```
1942 \fi
```

```
1943 \fi
```

```
1944 \DTMifbool{en-IE}{showdayofmonth}%
```

```
1945 {%
```

```

1946     \DTMenglishordinal{##3}%
1947     \DTMenIEdaymonthsep
1948 }%
1949 {}%
1950     \DTMifbool{en-IE}{abbr}%
1951     {\DTMenglishshortmonthname{##2}}%
1952     {\DTMenglishmonthname{##2}}%
1953     \DTMifbool{en-IE}{showyear}%
1954     {%
1955         \DTMenIEmonthyearsep\number##1 % space intended
1956     }%
1957     {}%
1958 }%
1959 \renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
1960 }%
1961 {% time style
1962     \renewcommand*{\DTMenglishtimesep}{\DTMenIetimesep}%
1963     \DTMsettimestyle{englishampm}%
1964 }%
1965 {% zone style
1966     \DTMresetzones
1967     \DTMenIEzonemaps
1968     \renewcommand*{\DTMdisplayzone}[2]{%
1969         \DTMifbool{en-IE}{mapzone}%
1970         {\DTMuseumzonemapordefault{##1}{##2}}%
1971         {%
1972             \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
1973             \ifDTMshowzoneminutes\DTMenIetimesep\DTMtwodigits{##2}\fi
1974         }%
1975     }%
1976 }%
1977 {% full style
1978     \renewcommand*{\DTMdisplay}[9]{%
1979         \ifDTMshowdate
1980             \DTMdisplaydate{##1}{##2}{##3}{##4}%
1981             \DTMenIEdateetimesep
1982             \fi
1983             \DTMdisplaytime{##5}{##6}{##7}%
1984             \ifDTMshowzone
1985                 \DTMenIEtimezonesep
1986                 \DTMdisplayzone{##8}{##9}%
1987             \fi
1988         }%
1989     \renewcommand*{\DTMdisplay}{\DTMdisplay}%
1990 }%

    Define numeric style.
1991 \DTMnewstyle
1992 {en-IE-numeric}% label
1993 {% date style

```

```

1994 \renewcommand*\DTMdisplaydate[4]{%
1995 \DTMifbool{en-IE}{showdayofmonth}%
1996 {%
1997 \number##3 % space intended
1998 \DTMenIEdatesep
1999 }%
2000 {%
2001 \number##2 % space intended
2002 \DTMifbool{en-IE}{showyear}%
2003 {%
2004 \DTMenIEdatesep
2005 \number##1 % space intended
2006 }%
2007 {%
2008 }%
2009 \renewcommand*\DTMdisplaydate[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
2010 }%
2011 {% time style
2012 \renewcommand*\DTMdisplaytime[3]{%
2013 \number##1
2014 \DTMenIetimesep\DTMtwdigits{##2}%
2015 \ifDTMshowseconds\DTMenIetimesep\DTMtwdigits{##3}\fi
2016 }%
2017 }%
2018 {% zone style
2019 \DTMresetzones
2020 \DTMenIEzonemaps
2021 \renewcommand*\DTMdisplayzone[2]{%
2022 \DTMifbool{en-IE}{mapzone}%
2023 {\DTMusedzonemapordefault{##1}{##2}}%
2024 {%
2025 \ifnum##1<0\else+\fi\DTMtwdigits{##1}%
2026 \ifDTMshowzoneminutes\DTMenIetimesep\DTMtwdigits{##2}\fi
2027 }%
2028 }%
2029 }%
2030 {% full style
2031 \renewcommand*\DTMdisplay[9]{%
2032 \ifDTMshowdate
2033 \DTMdisplaydate{##1}{##2}{##3}{##4}%
2034 \DTMenIEdatetimesep
2035 \fi
2036 \DTMdisplaytime{##5}{##6}{##7}%
2037 \ifDTMshowzone
2038 \DTMenIetimezonesep
2039 \DTMdisplayzone{##8}{##9}%
2040 \fi
2041 }%
2042 \renewcommand*\DTMdisplay{\DTMdisplay}%
2043 }

```

`\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.

```
2044 \newcommand*{\DTMenIEzonemaps}{%
2045   \DTMdefzonemap{00}{00}{GMT}%
2046   \DTMdefzonemap{01}{00}{IST}%
2047 }
```

Switch style according to the `useregional` setting.

```
2048 \DTMifcaseregional
2049 {}% do nothing
2050 {\DTMsetstyle{en-IE}}%
2051 {\DTMsetstyle{en-IE-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.)

```
2052 \ifcsundef{date\CurrentTrackedDialect}
2053 {}% do nothing
2054 \ifundef\dateenglish
2055 {%
2056 }%
2057 {%
2058   \def\dateenglish{%
2059     \DTMifcaseregional
2060     {}% do nothing
2061     {\DTMsetstyle{en-IE}}%
2062     {\DTMsetstyle{en-IE-numeric}}%
2063   }%
2064 }%
2065 }%
2066 {%
2067   \csdef{date\CurrentTrackedDialect}{%
2068     \DTMifcaseregional
2069     {}% do nothing
2070     {\DTMsetstyle{en-IE}}%
2071     {\DTMsetstyle{en-IE-regional}}%
2072   }%
2073 }%
```


Change History

1.0
 General: Initial release . . . 9, 14, 16, 21, 26, 31, 35, 40, 45, 50, 55, 60

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