

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 examples for British English with `polyglossia`:

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

```
\documentclass[british]{article}

\usepackage{fontspec}
\usepackage{polyglossia}
\setmainlanguage[variant=uk]{english}
\usepackage{datetime2}
```

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

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

```
\documentclass[en-GB]{article}

\usepackage{fontspec}
\usepackage{polyglossia}
\setdefaultlanguage[variant=uk]{english}

\usepackage{datetime2}
```

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

3. Pass `en-GB` to `datetime2`:

```
\documentclass{article}

\usepackage{fontspec}
\usepackage{polyglossia}
\setdefaultlanguage[variant=uk]{english}

\usepackage[en-GB]{datetime2}
```

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

Note that if you pass the language setting through the `datetime2` package option list (as in the above example) this will also set the `useregional` option to `text`.

If you're not using `babel` or `polyglossia` but still want to use the English modules, you can similarly use the language or regional setting in the document class or `datetime2` package options. Note that since `datetime2` loads `tracklang`, this setting will be remembered by any subsequently loaded packages that use `tracklang` to determine the document language settings.

For example, to use the `en-GB` date style without loading `babel` or `polyglossia`:

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

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

```
\DTMlangsetup[en-GB]{ord=raise}
```

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-time style. These are:

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

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

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

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

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

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

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

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

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

`ord` This may take one of the following values: `level` (ordinal suffix level with

the number), **raise** (ordinal suffix as a 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.

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 **showdown** 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`

dowmonthsep The separator between the day-of-week name and the month name in the **en-US** style. The default is `\space`. This is new to version 1.02, which now supports the `showdown` package option.

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

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.

timesep The separator between the hour and minutes in the **en-US-numeric** format.

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

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

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

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

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

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

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

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

- **std** or **standard**: set the standard time zone mappings AST (UTC-4), EST (UTC-5), CST (UTC-6), MST (UTC-7), PST (UTC-8), AKST (UTC-9), HAST (UTC-10), SST (UTC-10), ChST (UTC+10).
- **dst** or **daylight**: set the daylight savings time zone mappings ADT (UTC-3), EDT (UTC-4), CDT (UTC-6), MDT (UTC-6), PDT (UTC-7), AKDT (UTC-8), HADT (UTC-9).
- **atlantic**: set the Atlantic standard and daylight saving mappings AST (UTC-4) and ADT (UTC-3).
- **eastern**: set the Eastern standard and daylight saving mappings EST (UTC-5) and EDT (UTC-4).
- **central**: set the Central standard and daylight saving mappings CST (UTC-6) and CDT (UTC-5).

- **mountain**: set the Mountain standard and daylight saving mappings MST (UTC−7) and MDT (UTC−6).
- **pacific**: set the Pacific standard and daylight saving mappings PST (UTC−8) and PDT (UTC−7).
- **alaska**: set the Alaska standard and daylight saving mappings AKST (UTC−9) and AKDT (UTC−8).
- **hawaii-aleutian** or **hawaii** or **aleutian**: set the Hawaii-Aleutian standard and daylight saving mappings HAST (UTC−10) and HADT (UTC−9).
- **samoa**: set the Samoa Standard Time mapping SST (UTC−11).
- **chamorro**: set the Chamorro Standard Time mapping ChST (UTC−10).
- **clear**: redefines `\DTMenUSzonemaps` to empty and clears the mappings (using `\DTMclearmap`) for UTC−3, UTC−4, UTC−5, UTC−6, UTC−7, UTC−8, UTC−9, UTC−10, UTC−11 and UTC+10.

Other existing mappings are unchanged. For example,

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

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

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

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

Another example:

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

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

The `en-US` time style uses the `englishampm` style. The `en-US-numeric` uses a 24 hour style. The time zone checks the `mapzone` setting (described above). If it's set, then `\DTMusezonemapordefault` is used otherwise a numeric $\langle TZH \rangle : \langle TZM \rangle$ 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. As from v1.03, there's also a `zone` setting that works in a similar manner to the `zone` setting for the `en-US` module described above. For `en-CA`, the available values are:

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

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

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

7 English (AU)

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

This module provides the `en-AU` and `en-AU-numeric` styles that are virtually identical to the `en-GB` and `en-GB-numeric` styles. These have the same options as the GB styles (except that the default value of `ord` is `omit` rather than `level` and the default value of `mapzone` is `false`) but the zone maps are provided by `\DTMenAUzonemaps`, which can be redefined as required. This doesn't take all zones into account, but as from v1.03, there is now the `zone` option, which modifies `\DTMenAUzonemaps`. This works in much the same way as for the `en-US` and `en-CA` options of the same name, described above. Available values for the `en-AU` module:

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

Example:

```
\DTMlangsetup[en-AU]{zone=cocos,zone=christmas}
```

8 English (NZ)

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

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

9 English (GG)

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

10 English (JE)

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

11 English (IM)

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

12 English (MT)

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

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

13 English (IE)

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

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

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

For Irish Gaelic you need the `irish` module instead.

14 The Code

14.1 Base Code (`datetime2-english-base.1df`)

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

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

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

```
\DTMenglishordinal
2 \newcommand*{\DTMenglishordinal}[1]{%
3   \number#1 % space intended
4   \DTMenglishfmtordsuffix{%
5     \ifcase#1
6       \or \DTMenglishst
7       \or \DTMenglishhd
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 \TeX '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 {englishamp}% 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\DTMtwdigits{##2}%
183         \ifnum##1=12
v1.03 bug fixed replaced \DTMenglisham with \DTMenglishpm
184             \DTMtexpdfstring
185             {\DTMenglishampfmt{\DTMenglishpm}}%
186             {\DTMenglishpm}%
187         \else
188             \DTMtexpdfstring
189             {\DTMenglishampfmt{\DTMenglisham}}%
190             {\DTMenglisham}%
191         \fi
192     \else
193         \number\numexpr##1-12\relax
194         \DTMenglishtimesep\DTMtwdigits{##2}%
195     \ifnum##1=24
v1.03 bug fixed replaced \DTMenglishpm with \DTMenglisham
196         \DTMtexpdfstring
197         {\DTMenglishampfmt{\DTMenglisham}}%
198         {\DTMenglisham}%
199     \else
200         \DTMtexpdfstring
201         {\DTMenglishampfmt{\DTMenglishpm}}%
202         {\DTMenglishpm}%
203     \fi
204     \fi
205     \fi
206 }%
207 }%

```

14.2 Default English Code (datetime2-english.ldf)

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

Identify Module

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

Load the base English module.

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

Define default English text style (TeX's default) labelled `english`. The time zone is just the `default` style (no mappings applied) but `showisoZ` setting checked.

The full style places a space between each block (date, time and zone). The numeric setting is ambiguous without a region so it will use the `default` style.

```

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{englishampm}%
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}[2016/03/09 v1.04 (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.

```

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

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

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

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

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

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

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

```

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

```
275 \DTMdefkey{en-GB}{dowdaysep}{\renewcommand*{\DTMenGBdowdaysep}{#1}}
276 \DTMdefkey{en-GB}{daymonthsep}{\renewcommand*{\DTMenGBdaymonthsep}{#1}}
277 \DTMdefkey{en-GB}{monthyearsep}{\renewcommand*{\DTMenGBmonthyearsep}{#1}}
278 \DTMdefkey{en-GB}{datetimesep}{\renewcommand*{\DTMenGBdatetimesep}{#1}}
279 \DTMdefkey{en-GB}{timezonesep}{\renewcommand*{\DTMenGBtimezonesep}{#1}}
280 \DTMdefkey{en-GB}{datesep}{\renewcommand*{\DTMenGBdatesep}{#1}}
281 \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.

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

The default is the full name.

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

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

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

The default is to use mappings.

```
285 \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.)

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

The default is to show the day of the month.

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

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

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

The default is to show the year.

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

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

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

Define a setting to change the ordinal suffix style.

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

```

302 \fi
303 }
    Define the en-GB style.
304 \DTMnewstyle
305 {en-GB}% label
306 {% date style
307   \renewcommand*\DTMenglishfmtordsuffix{\DTMenGBfmtordsuffix}%
308   \renewcommand*\DTMdisplaydate[4]{%
309     \ifDTMshowdow
310       \ifnum##4>-1
311         \DTMifbool{en-GB}{abbr}%
312         {\DTMenglishshortweekdayname{##4}}%
313         {\DTMenglishweekdayname{##4}}%
314         \DTMenGBdowdaysep
315       \fi
316     \fi
317     \DTMifbool{en-GB}{showdayofmonth}%
318     {%
319       \DTMenglishordinal{##3}%
320       \DTMenGBdaymonthsep
321     }%
322     {}%
323     \DTMifbool{en-GB}{abbr}%
324     {\DTMenglishshortmonthname{##2}}%
325     {\DTMenglishmonthname{##2}}%
326     \DTMifbool{en-GB}{showyear}%
327     {%
328       \DTMenGBmonthyearsep\number##1 % space intended
329     }%
330     {}%
331   }%
332   \renewcommand*\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
333 }%
334 {% time style
335   \renewcommand*\DTMenglishtimesep{\DTMenGBtimesep}%
336   \DTMsettimestyle{englishampm}%
337 }%
338 {% zone style
339   \DTMresetzones
340   \DTMenGBzonemaps
341   \renewcommand*\DTMdisplayzone}[2]{%
342     \DTMifbool{en-GB}{mapzone}%
343     {\DTMusedzonemapordefault{##1}{##2}}%
344     {%
345       \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
346       \ifDTMshowzoneminutes\DTMenGBtimesep\DTMtwodigits{##2}\fi
347     }%
348   }%
349 }%

```

```

350 {% full style
351   \renewcommand*\DTMdisplay}[9]{%
352     \ifDTMshowdate
353       \DTMdisplaydate{##1}{##2}{##3}{##4}%
354       \DTMenGBdatetimesep
355       \fi
356       \DTMdisplaytime{##5}{##6}{##7}%
357       \ifDTMshowzone
358         \DTMenGBtimezonesep
359         \DTMdisplayzone{##8}{##9}%
360       \fi
361     }%
362   \renewcommand*\DTMDisplay{\DTMdisplay}%
363 }%

    Define numeric style.
364 \DTMnewstyle
365 {en-GB-numeric}% label
366 {% date style
367   \renewcommand*\DTMdisplaydate[4]{%
368     \DTMifbool{en-GB}{showdayofmonth}%
369     {%
370       \number##3 % space intended
371       \DTMenGBdatesep
372     }%
373   }%
374   \number##2 % space intended
375   \DTMifbool{en-GB}{showyear}%
376   {%
377     \DTMenGBdatesep
378     \number##1 % space intended
379   }%
380 }%
381 }%
382 \renewcommand*\DTMDisplaydate[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
383 }%
384 {% time style
385   \renewcommand*\DTMdisplaytime[3]{%
386     \number##1
387     \DTMenGBtimesep\DTMtwodigits{##2}%
388     \ifDTMshowseconds\DTMenGBtimesep\DTMtwodigits{##3}\fi
389   }%
390 }%
391 {% zone style
392   \DTMresetzones
393   \DTMenGBzonemaps
394   \renewcommand*\DTMdisplayzone}[2]{%
395     \DTMifbool{en-GB}{mapzone}%
396     {\DTMusedzonemapordefault{##1}{##2}}%
397   }%

```

```

398     \ifnum##1<0\else+\fi\DTMtwdigits{##1}%
399     \ifDTMshowzoneminutes\DTMenGBtimesep\DTMtwdigits{##2}\fi
400   }%
401 }%
402 }%
403 {% full style
404   \renewcommand*{\DTMdisplay}[9]{%
405     \ifDTMshowdate
406       \DTMdisplaydate{##1}{##2}{##3}{##4}%
407       \DTMenGBdatetimesep
408       \fi
409       \DTMdisplaytime{##5}{##6}{##7}%
410       \ifDTMshowzone
411         \DTMenGBtimezonesep
412         \DTMdisplayzone{##8}{##9}%
413       \fi
414     }%
415   \renewcommand*{\DTMDisplay}{\DTMdisplay}%
416 }

```

`\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.

```

417 \newcommand*{\DTMenGBzonemaps}{%
418   \DTMdefzonemap{00}{00}{GMT}%
419   \DTMdefzonemap{01}{00}{BST}%
420 }

```

Switch style according to the `useregional` setting.

```

421 \DTMifcaseregional
422 {}% do nothing
423 {\DTMsetstyle{en-GB}}%
424 {\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.)

```

425 \ifcsundef{date\CurrentTrackedDialect}
426 {% do nothing
427   \ifundef\dateenglish
428   {%
429   }%
430   {%
431     \def\dateenglish{%
432       \DTMifcaseregional
433       }% do nothing
434       {\DTMsetstyle{en-GB}}%
435       {\DTMsetstyle{en-GB-numeric}}%
436     }%
437   }%
438 }%
439 {%

```

```

440 \csdef{date\CurrentTrackedDialect}{%
441   \DTMifcaseregional
442   {}% do nothing
443   {\DTMsetstyle{en-GB}}%
444   {\DTMsetstyle{en-GB-numeric}}%
445   }%
446 }%

```

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

This file contains the US English style.

Identify this module.

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

Load base English module.

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

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

```

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

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

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

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

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

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

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

Provide keys that can be used in \DTMlangsetup to set these separators.
456 \DTMdefkey{en-US}{monthdaysep}{\renewcommand*{\DTMenUSmonthdaysep}{#1}}
457 \DTMdefkey{en-US}{downmonthsep}{\renewcommand*{\DTMenUSdownmonthsep}{#1}}
458 \DTMdefkey{en-US}{dayyearsep}{\renewcommand*{\DTMenUSdayyearsep}{#1}}

```



```

459 \DTMdefkey{en-US}{datetimesep}{\renewcommand*\DTMenUSdatetimesep}{#1}}
460 \DTMdefkey{en-US}{timezonesep}{\renewcommand*\DTMenUStimezonesep}{#1}}
461 \DTMdefkey{en-US}{datesep}{\renewcommand*\DTMenUSdatesep}{#1}}
462 \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.

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

The default is the full name.

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

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

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

The default is no mappings.

```
466 \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.)

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

The default is to show the day of the month.

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

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

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

The default is to show the year.

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

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

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

Define a setting to change the ordinal suffix style.

```

472 \DTMdefchoickey{en-US}{ord}[\val\nr]{level,raise,omit,sc}{%
473 \ifcase\nr\relax
474   \renewcommand*\DTMenUSfmtordsuffix[1]{##1}%
475 \or
476   \renewcommand*\DTMenUSfmtordsuffix[1]{%
477     \DTMtexorpdfstring{\protect\textsuperscript{##1}}{##1}}%
478 \or
479   \renewcommand*\DTMenUSfmtordsuffix[1]{}%
480 \or
481   \renewcommand*\DTMenUSfmtordsuffix[1]{%
482     \DTMtexorpdfstring{\protect\textsc{##1}}{##1}}%
483 \fi
484 }

```

Define a setting to change zone mappings.

```
485 \DTMdefchoicekey{en-US}{zone}[\val\nr]%
486 {std,standard,dst,daylight,atlantic,eastern,central,mountain,%
487  pacific,alaska,hawaii-aleutian,hawaii,aleutian,samoa,charmorro,clear}%
488 {%
489  \ifcase\nr\relax
490  % std
491  \appto\DTMenUSzonemaps{\DTMenUSstdzonemaps}%
492  \DTMenUSstdzonemaps
493 \or
494  % standard
495  \appto\DTMenUSzonemaps{\DTMenUSstdzonemaps}%
496  \DTMenUSstdzonemaps
497 \or
498  % dst
499  \appto\DTMenUSzonemaps{\DTMenUSdstzonemaps}%
500  \DTMenUSdstzonemaps
501 \or
502  % daylight
503  \appto\DTMenUSzonemaps{\DTMenUSdstzonemaps}%
504  \DTMenUSdstzonemaps
505 \or
506  % atlantic
507  \appto\DTMenUSzonemaps{\DTMenUSatlanticzonemaps}%
508  \DTMenUSatlanticzonemaps
509 \or
510  % eastern
511  \appto\DTMenUSzonemaps{\DTMenUSEasternzonemaps}%
512  \DTMenUSEasternzonemaps
513 \or
514  % central
515  \appto\DTMenUSzonemaps{\DTMenUScentralzonemaps}%
516  \DTMenUScentralzonemaps
517 \or
518  % mountain
519  \appto\DTMenUSzonemaps{\DTMenUSmountainzonemaps}%
520  \DTMenUSmountainzonemaps
521 \or
522  % pacific
523  \appto\DTMenUSzonemaps{\DTMenUSpacificzonemaps}%
524  \DTMenUSpacificzonemaps
525 \or
526  % alaska
527  \appto\DTMenUSzonemaps{\DTMenUSalaskazonemaps}%
528  \DTMenUSalaskazonemaps
529 \or
530  % hawaii-aleutian
531  \appto\DTMenUSzonemaps{\DTMenUSHawaiialeutianzonemaps}%
532  \DTMenUSHawaiialeutianzonemaps
```

```

533 \or
534 % hawaii
535 \appto\DTMenUSzonemaps{\DTMenUSHawaiialeutianzonemaps}%
536 \DTMenUSHawaiialeutianzonemaps
537 \or
538 % aleutian
539 \appto\DTMenUSzonemaps{\DTMenUSHawaiialeutianzonemaps}%
540 \DTMenUSHawaiialeutianzonemaps
541 \or
542 % samoa
543 \appto\DTMenUSzonemaps{\DTMenUSSamoazonemaps}%
544 \DTMenUSSamoazonemaps
545 \or
546 % chamorro
547 \appto\DTMenUSzonemaps{\DTMenUSchamorrozonemaps}%
548 \DTMenUSchamorrozonemaps
549 \or
550 % clear
551 \renewcommand*{\DTMenUSzonemaps}{}%
552 \DTMclearmap{-3}{0}%
553 \DTMclearmap{-4}{0}%
554 \DTMclearmap{-5}{0}%
555 \DTMclearmap{-6}{0}%
556 \DTMclearmap{-7}{0}%
557 \DTMclearmap{-8}{0}%
558 \DTMclearmap{-9}{0}%
559 \DTMclearmap{-10}{0}%
560 \DTMclearmap{-11}{0}%
561 \DTMclearmap{10}{0}%
562 \fi
563 }

```

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.

```

564 \DTMnewstyle
565 {en-US}% label
566 {% date style
567 \renewcommand*{\DTMenglishfmtordsuffix}{\DTMenUSfmtordsuffix}%
568 \renewcommand*{\DTMdisplaydate[4]}{%

```

Support for showdow added in v1.02 (thanks to Alan Munn).

```

569 \ifDTMshowdow
570 \ifnum##4>-1 % space intended
571 \DTMifbool{en-US}{abbr}%
572 {\DTMenglishshortweekdayname{##4}}%
573 {\DTMenglishweekdayname{##4}}%
574 \DTMenUSdowmonthsep
575 \fi

```

```

576     \fi
577     \DTMifbool{en-US}{abbr}%
578     {\DTMenglishshortmonthname{##2}}%
579     {\DTMenglishmonthname{##2}}%
580     \DTMifbool{en-US}{showdayofmonth}%
581     {%
582         \DTMenUSmonthdaysep
583         \DTMenglishordinal{##3}%
584         \DTMifbool{en-US}{showyear}%
585         {%
586             \DTMenUSdayyearsep
587             \number##1 % space intended
588         }%
589     }%
590 }%
591 {%
592     \DTMifbool{en-US}{showyear}%
593     {%
594         \DTMenUSmonthdaysep
595         \number##1 % space intended
596     }%
597 }%
598 }%
599 }%
600 \renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
601 }%
602 {% time style
603     \renewcommand*\DTMenglishtimesep{\DTMenUSTimesep}%
604     \DTMsettimestyle{englishampm}%
605 }%
606 {% zone style
607     \DTMresetzones
608     \DTMenUSzonemaps
609     \renewcommand*{\DTMdisplayzone}[2]{%
610         \DTMifbool{en-US}{mapzone}%
611         {\DTMusedzonemapordefault{##1}{##2}}%
612         {%
613             \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
614             \ifDTMshowzoneminutes\DTMenUSTimesep\DTMtwodigits{##2}\fi
615         }%
616     }%
617 }%
618 {% full style
619     \renewcommand*{\DTMdisplay}[9]{%
620         \ifDTMshowdate
621             \DTMdisplaydate{##1}{##2}{##3}{##4}%
622             \DTMenUSdatetimesep
623         \fi
624         \DTMdisplaytime{##5}{##6}{##7}%
625         \ifDTMshowzone

```

```

626     \DTMenUStimezonesep
627     \DTMdisplayzone{##8}{##9}%
628     \fi
629     }%
630     \renewcommand*\DTMdisplay}{\DTMdisplay}%
631     }%
        Define numeric style.
632 \DTMnewstyle
633 {en-US-numeric}% label
634 {% date style
635     \renewcommand*DTMdisplaydate[4]{%
636         \number##2 % space intended
637         \DTMifbool{en-US}{showdayofmonth}%
638         {%
639             \DTMenUSdatesep
640             \number##3 % space intended
641         }%
642     }%
643     \DTMifbool{en-US}{showyear}%
644     {%
645         \DTMenUSdatesep
646         \number##1 % space intended
647     }%
648     }%
649     }%
650     \renewcommand*\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
651     }%
652 {% time style
653     \renewcommand*DTMdisplaytime[3]{%
654         \number##1
655         \DTMenUStimesepDTMtwodigits{##2}%
656         \ifDTMshowseconds\DTMenUStimesep\DTMtwodigits{##3}\fi
657     }%
658     }%
659 {% zone style
660     \DTMresetzones
661     \DTMenUSzonemaps
662     \renewcommand*\DTMdisplayzone}[2]{%
663         \DTMifbool{en-US}{mapzone}%
664         {\DTMuseumaportdefault{##1}{##2}}%
665         {%
666             \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
667             \ifDTMshowzoneminutes\DTMenUStimesep\DTMtwodigits{##2}\fi
668         }%
669     }%
670     }%
671 {% full style
672     \renewcommand*\DTMdisplay}[9]{%
673         \ifDTMshowdate

```

```

674     \DTMdisplaydate{##1}{##2}{##3}{##4}%
675     \DTMenUSdatetimesep
676     \fi
677     \DTMdisplaytime{##5}{##6}{##7}%
678     \ifDTMshowzone
679     \DTMenUSstimezonesep
680     \DTMdisplayzone{##8}{##9}%
681     \fi
682     }%
683     \renewcommand*{\DTMdisplay}{\DTMdisplay}%
684 }

```

`\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.)

```

685 \newcommand*{\DTMenUSzonemaps}{%
686   \DTMdefzonemap{-3}{00}{ADT}%
687   \DTMdefzonemap{-4}{00}{AST}%
688   \DTMdefzonemap{-5}{00}{EST}%
689   \DTMdefzonemap{-6}{00}{CST}%
690   \DTMdefzonemap{-7}{00}{MST}%
691   \DTMdefzonemap{-8}{00}{PST}%
692 }

```

`\DTMenUSstdzonemaps` Just the standard time zone mappings.

```

693 \newcommand*{\DTMenUSstdzonemaps}{%
694   \DTMdefzonemap{-4}{00}{AST}%
695   \DTMdefzonemap{-5}{00}{EST}%
696   \DTMdefzonemap{-6}{00}{CST}%
697   \DTMdefzonemap{-7}{00}{MST}%
698   \DTMdefzonemap{-8}{00}{PST}%
699   \DTMdefzonemap{-9}{00}{AKST}%
700   \DTMdefzonemap{-10}{00}{HAST}%
701   \DTMdefzonemap{-11}{00}{SST}%
702   \DTMdefzonemap{10}{00}{ChST}%
703 }

```

`\DTMenUSdstzonemaps` Just daylight saving mappings.

```

704 \newcommand*{\DTMenUSdstzonemaps}{%
705   \DTMdefzonemap{-3}{00}{ADT}%
706   \DTMdefzonemap{-4}{00}{EDT}%
707   \DTMdefzonemap{-5}{00}{CDT}%
708   \DTMdefzonemap{-6}{00}{MDT}%
709   \DTMdefzonemap{-7}{00}{PDT}%
710   \DTMdefzonemap{-8}{00}{AKDT}%
711   \DTMdefzonemap{-9}{00}{HADT}%
712 }

```

`\DTMenUSatlanticzonemaps` Just the Atlantic zone mappings (AST and ADT).

```

713 \newcommand*\DTMenUSatlanticzonemaps}{%
714 \DTMdefzonemap{-4}{00}{AST}%
715 \DTMdefzonemap{-3}{00}{ADT}%
716 }

```

\DTMenUSEasternzonemaps Just the Eastern zone mappings (EST and EDT).

```

717 \newcommand*\DTMenUSEasternzonemaps}{%
718 \DTMdefzonemap{-5}{00}{EST}%
719 \DTMdefzonemap{-4}{00}{EDT}%
720 }

```

\DTMenUScentralzonemaps Just the Central zone mappings (CST and CDT).

```

721 \newcommand*\DTMenUScentralzonemaps}{%
722 \DTMdefzonemap{-6}{00}{CST}%
723 \DTMdefzonemap{-5}{00}{CDT}%
724 }

```

\DTMenUSmountainzonemaps Just the Mountain zone mappings (MST and MDT).

```

725 \newcommand*\DTMenUSmountainzonemaps}{%
726 \DTMdefzonemap{-7}{00}{MST}%
727 \DTMdefzonemap{-6}{00}{MDT}%
728 }

```

\DTMenUSpacificzonemaps Just the Pacific zone mappings (PST and PDT).

```

729 \newcommand*\DTMenUSpacificzonemaps}{%
730 \DTMdefzonemap{-8}{00}{PST}%
731 \DTMdefzonemap{-7}{00}{PDT}%
732 }

```

\DTMenUSalaskazonemaps Just the Alaska zone mappings (AKST and AKDT).

```

733 \newcommand*\DTMenUSalaskazonemaps}{%
734 \DTMdefzonemap{-9}{00}{AKST}%
735 \DTMdefzonemap{-8}{00}{AKDT}%
736 }

```

\DTMenUShawaiialeutianzonemaps Just the Hawaii-Aleutian zone mappings (HAST and HADT).

```

737 \newcommand*\DTMenUShawaiialeutianzonemaps}{%
738 \DTMdefzonemap{-10}{00}{HAST}%
739 \DTMdefzonemap{-9}{00}{HADT}%
740 }

```

\DTMenUSSamoazonemaps Just the Samoa standard time (SST).

```

741 \newcommand*\DTMenUSSamoazonemaps}{%
742 \DTMdefzonemap{-11}{00}{SST}%
743 }

```

\DTMenUSchamorrozonemaps Just the Chamorro standard time (ChST).

```

744 \newcommand*\DTMenUSchamorrozonemaps}{%
745 \DTMdefzonemap{10}{00}{ChST}%
746 }

```

Switch style according to the `useregional` setting.

```
747 \DTMifcaseregional
748 {}% do nothing
749 {\DTMsetstyle{en-US}}%
750 {\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.)
751 \ifcsundef{date\CurrentTrackedDialect}
752 {}% do nothing
753 \ifundef\dateenglish
754 {}%
755 }%
756 {%
757   \def\dateenglish{%
758     \DTMifcaseregional
759     {}% do nothing
760     {\DTMsetstyle{en-US}}%
761     {\DTMsetstyle{en-US-numeric}}%
762   }%
763 }%
764 }%
765 {%
766   \csdef{date\CurrentTrackedDialect}{%
767     \DTMifcaseregional
768     {}% do nothing
769     {\DTMsetstyle{en-US}}%
770     {\DTMsetstyle{en-US-numeric}}%
771   }%
772 }%
```

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.

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

Load base English module.

```
774 \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.

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

`\DTMenCAdownmonthsep` The separator between the day of week name and the month for the text format. (New to version 1.02.)

```
776 \newcommand*{\DTMenCAdownmonthsep}{\space}
```


`\DTMenCAdayyearsep` The separator between the day and year for the text format.
777 `\newcommand*{\DTMenCAdayyearsep}{, \space}`

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

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

`\DTMenCADatesep` The separator for the numeric date format.
780 `\newcommand*{\DTMenCADatesep}{/}`

`\DTMenCATimesep` The separator for the numeric time format.
781 `\newcommand*{\DTMenCATimesep}{:}`

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

782 `\DTMdefkey{en-CA}{monthdaysep}{\renewcommand*{\DTMenCAmonthdaysep}{#1}}`
783 `\DTMdefkey{en-CA}{dowmonthsep}{\renewcommand*{\DTMenCADowmonthsep}{#1}}`
784 `\DTMdefkey{en-CA}{dayyearsep}{\renewcommand*{\DTMenCAdayyearsep}{#1}}`
785 `\DTMdefkey{en-CA}{datetimesep}{\renewcommand*{\DTMenCADatetimesep}{#1}}`
786 `\DTMdefkey{en-CA}{timezonesep}{\renewcommand*{\DTMenCAtimezonesep}{#1}}`
787 `\DTMdefkey{en-CA}{datesep}{\renewcommand*{\DTMenCADatesep}{#1}}`
788 `\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.

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

The default is the full name.

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

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

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

The default is no mappings.

792 `\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.)

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

The default is to show the day of the month.

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

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

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

The default is to show the year.

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

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

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

Define a setting to change the ordinal suffix style.

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

Define a setting to change zone mappings.

```
811 \DTMdefchoicekey{en-CA}{zone}[\val\nr]{%
812 {std,standard,dst,daylight,newfoundland,atlantic,eastern,central,mountain,%
813  pacific,clear}}%
814 {%
815 \ifcase\nr\relax
816   % std
817   \appto\DTMenCAzonemaps{\DTMenCAstdzonemaps}%
818   \DTMenCAstdzonemaps
819 \or
820   % standard
821   \appto\DTMenCAzonemaps{\DTMenCAstdzonemaps}%
822   \DTMenCAstdzonemaps
823 \or
824   % dst
825   \appto\DTMenCAzonemaps{\DTMenCADstzonemaps}%
826   \DTMenCADstzonemaps
827 \or
828   % daylight
829   \appto\DTMenCAzonemaps{\DTMenCADstzonemaps}%
830   \DTMenCADstzonemaps
831 \or
832   % newfoundland
833   \appto\DTMenCAzonemaps{\DTMenCANewfoundlandzonemaps}%
834   \DTMenCANewfoundlandzonemaps
835 \or
836   % atlantic
837   \appto\DTMenCAzonemaps{\DTMenCAatlanticzonemaps}%
838   \DTMenCAatlanticzonemaps
```

```

839 \or
840 % eastern
841 \appto\DTMenCAzonemaps{\DTMenCAeasternzonemaps}%
842 \DTMenCAeasternzonemaps
843 \or
844 % central
845 \appto\DTMenCAzonemaps{\DTMenCAcentralzonemaps}%
846 \DTMenCAcentralzonemaps
847 \or
848 % mountain
849 \appto\DTMenCAzonemaps{\DTMenCAmountainzonemaps}%
850 \DTMenCAmountainzonemaps
851 \or
852 % pacific
853 \appto\DTMenCAzonemaps{\DTMenCAPacificzonemaps}%
854 \DTMenCAPacificzonemaps
855 \or
856 % clear
857 \renewcommand*{\DTMenCAzonemaps}{}%
858 \DTMclearmap{-2}{30}%
859 \DTMclearmap{-3}{30}%
860 \DTMclearmap{-3}{0}%
861 \DTMclearmap{-4}{0}%
862 \DTMclearmap{-5}{0}%
863 \DTMclearmap{-6}{0}%
864 \DTMclearmap{-7}{0}%
865 \DTMclearmap{-8}{0}%
866 \fi
867 }

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

868 \DTMnewstyle
869 {en-CA}% label
870 {% date style
871 \renewcommand*{\DTMenglishfmtordsuffix}{\DTMenCAfmtordsuffix}%
872 \renewcommand*{\DTMdisplaydate[4]}{

Support for showdow added in v1.02 (thanks to Alan Munn).

873 \ifDTMshowdow
874 \ifnum##4>-1 % space intended
875 \DTMifbool{en-CA}{abbr}%
876 {\DTMenglishshortweekdayname{##4}}%
877 {\DTMenglishweekdayname{##4}}%
878 \DTMenCA dowmonthsep
879 \fi
880 \fi
881 \DTMifbool{en-CA}{abbr}%
882 {\DTMenglishshortmonthname{##2}}%
883 {\DTMenglishmonthname{##2}}%
884 \DTMifbool{en-CA}{showdayofmonth}%
885 {%

```

```

886     \DTMenCAmonthdaysep
887     \DTMenglishordinal{##3}%
888     \DTMifbool{en-CA}{showyear}%
889     {%
890         \DTMenCAdayyearsep
891         \number##1 % intended
892     }%
893     {}%
894 }%
895 {%
896     \DTMifbool{en-CA}{showyear}%
897     {%
898         \DTMenCAmonthdaysep
899         \number##1 % intended
900     }%
901     {}%
902 }%
903 }%
904 \renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
905 }%
906 {% time style
907     \renewcommand*{\DTMenglishtimesep}{\DTMenCATimesep}%
908     \DTMsettimestyle{englishamp}%
909 }%
910 {% zone style
911     \DTMresetzones
912     \DTMenCAzonemaps
913     \renewcommand*{\DTMdisplayzone}[2]{%
914         \DTMifbool{en-CA}{mapzone}%
915         {\DTMusedzonemapordefault{##1}{##2}}%
916         {%
917             \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
918             \ifDTMshowzoneminutes\DTMenCATimesep\DTMtwodigits{##2}\fi
919         }%
920     }%
921 }%
922 {% full style
923     \renewcommand*{\DTMdisplay}[9]{%
924         \ifDTMshowdate
925             \DTMdisplaydate{##1}{##2}{##3}{##4}%
926             \DTMenCAdateTimesep
927         \fi
928         \DTMdisplaytime{##5}{##6}{##7}%
929         \ifDTMshowzone
930             \DTMenCAtimezonesep
931             \DTMdisplayzone{##8}{##9}%
932         \fi
933     }%
934     \renewcommand*{\DTMdisplay}{\DTMdisplay}%
935 }%

```

Define numeric style.

```
936 \DTMnewstyle
937 {en-CA-numeric}% label
938 {% date style
939   \renewcommand*\DTMdisplaydate[4]{%
940     \number##2 % space intended
941     \DTMifbool{en-CA}{showdayofmonth}%
942     {%
943       \DTMenCADatesep
944       \number##3 % space intended
945     }%
946   }%
947   \DTMifbool{en-CA}{showyear}%
948   {%
949     \DTMenCADatesep
950     \number##1 % space intended
951   }%
952 }%
953 }%
954 \renewcommand*\DTMdisplaydate[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
955 }%
956 {% time style
957   \renewcommand*\DTMdisplaytime[3]{%
958     \number##1
959     \DTMenCATimesep\DTMtwodigits{##2}%
960     \ifDTMshowseconds\DTMenCATimesep\DTMtwodigits{##3}\fi
961   }%
962 }%
963 {% zone style
964   \DTMresetzones
965   \DTMenCAzonemaps
966   \renewcommand*\DTMdisplayzone[2]{%
967     \DTMifbool{en-CA}{mapzone}%
968     {\DTMusedzonemapordefault{##1}{##2}}%
969     {%
970       \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
971       \ifDTMshowzoneminutes\DTMenCATimesep\DTMtwodigits{##2}\fi
972     }%
973   }%
974 }%
975 {% full style
976   \renewcommand*\DTMdisplay[9]{%
977     \ifDTMshowdate
978       \DTMdisplaydate{##1}{##2}{##3}{##4}%
979       \DTMenCADatetimesep
980     \fi
981     \DTMdisplaytime{##5}{##6}{##7}%
982     \ifDTMshowzone
983       \DTMenCAtimezonesep
```

```

984     \DTMdisplayzone{##8}{##9}%
985     \fi
986   }%
987   \renewcommand*\DTMDisplay{\DTMdisplay}%
988 }

```

`\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.)

```

989 \newcommand*\DTMenCAzonemaps{%
990   \DTMdefzonemap{-2}{30}{NDT}%
991   \DTMdefzonemap{-3}{30}{NST}%
992   \DTMdefzonemap{-4}{00}{AST}%
993   \DTMdefzonemap{-5}{00}{EST}%
994   \DTMdefzonemap{-6}{00}{CST}%
995   \DTMdefzonemap{-7}{00}{MST}%
996   \DTMdefzonemap{-8}{00}{PST}%
997 }

```

`\DTMenCAstdzonemaps` Just the standard time zone mappings.

```

998 \newcommand*\DTMenCAstdzonemaps{%
999   \DTMdefzonemap{-3}{30}{NST}%
1000  \DTMdefzonemap{-4}{00}{AST}%
1001  \DTMdefzonemap{-5}{00}{EST}%
1002  \DTMdefzonemap{-6}{00}{CST}%
1003  \DTMdefzonemap{-7}{00}{MST}%
1004  \DTMdefzonemap{-8}{00}{PST}%
1005 }

```

`\DTMenCADstzonemaps` Just daylight saving mappings.

```

1006 \newcommand*\DTMenCADstzonemaps{%
1007   \DTMdefzonemap{-2}{30}{NDT}%
1008   \DTMdefzonemap{-3}{00}{ADT}%
1009   \DTMdefzonemap{-4}{00}{EDT}%
1010   \DTMdefzonemap{-5}{00}{CDT}%
1011   \DTMdefzonemap{-6}{00}{MDT}%
1012   \DTMdefzonemap{-7}{00}{PDT}%
1013 }

```

`\DTMenCAnewfoundlandzonemaps` Just the Newfoundland zone mappings (NST and NDT).

```

1014 \newcommand*\DTMenCAnewfoundlandzonemaps{%
1015   \DTMdefzonemap{-3}{30}{NST}%
1016   \DTMdefzonemap{-2}{30}{NDT}%
1017 }

```

`\DTMenCAatlanticzonemaps` Just the Atlantic zone mappings (AST and ADT).

```

1018 \newcommand*\DTMenCAatlanticzonemaps{%
1019   \DTMdefzonemap{-4}{00}{AST}%
1020   \DTMdefzonemap{-3}{00}{ADT}%
1021 }

```

`\DTMenCAeasternzonemaps` Just the Eastern zone mappings (EST and EDT).

```
1022 \newcommand*\DTMenCAeasternzonemaps}{%
1023 \DTMdefzonemap{-5}{00}{EST}%
1024 \DTMdefzonemap{-4}{00}{EDT}%
1025 }
```

`\DTMenCAcentralzonemaps` Just the Central zone mappings (CST and CDT).

```
1026 \newcommand*\DTMenCAcentralzonemaps}{%
1027 \DTMdefzonemap{-6}{00}{CST}%
1028 \DTMdefzonemap{-5}{00}{CDT}%
1029 }
```

`\DTMenCAmountainzonemaps` Just the Mountain zone mappings (MST and MDT).

```
1030 \newcommand*\DTMenCAmountainzonemaps}{%
1031 \DTMdefzonemap{-7}{00}{MST}%
1032 \DTMdefzonemap{-6}{00}{MDT}%
1033 }
```

`\DTMenCAPacificzonemaps` Just the Pacific zone mappings (PST and PDT).

```
1034 \newcommand*\DTMenCAPacificzonemaps}{%
1035 \DTMdefzonemap{-8}{00}{PST}%
1036 \DTMdefzonemap{-7}{00}{PDT}%
1037 }
```

Switch style according to the `useregional` setting.

```
1038 \DTMifcaseregional
1039 {}% do nothing
1040 {\DTMsetstyle{en-CA}}%
1041 {\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.)

```
1042 \ifcsundef{date\CurrentTrackedDialect}
1043 {}% do nothing
1044 \ifundef\dateenglish
1045 {}%
1046 }%
1047 {}%
1048 \def\dateenglish{%
1049 \DTMifcaseregional
1050 {}% do nothing
1051 {\DTMsetstyle{en-CA}}%
1052 {\DTMsetstyle{en-CA-numeric}}%
1053 }%
1054 }%
1055 }%
1056 {}%
1057 \csdef{date\CurrentTrackedDialect}{%
1058 \DTMifcaseregional
```

```

1059     {}% do nothing
1060     {\DTMsetstyle{en-CA}}%
1061     {\DTMsetstyle{en-CA-numeric}}%
1062   }%
1063 }%

```

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

This file contains the Australian English style.

Identify this module.

```
1064 \ProvidesDateTimeModule{en-AU}[2016/03/09 v1.04 (NLCT)]
```

Load base English module.

```
1065 \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.

```

\DTMenAUdowdaysep The separator between the day of week name and the day of month number for
the text format.
1066 \newcommand*\DTMenAUdowdaysep{\space}

\DTMenAUdaymonthsep The separator between the day and month for the text format.
1067 \newcommand*\DTMenAUdaymonthsep{\space}

\DTMenAUmonthyearsep The separator between the month and year for the text format.
1068 \newcommand*\DTMenAUmonthyearsep{\space}

\DTMenAUdatetimesep The separator between the date and time blocks in the full format (either text or
numeric).
1069 \newcommand*\DTMenAUdatetimesep{\space}

\DTMenAUtimezonesep The separator between the time and zone blocks in the full format (either text or
numeric).
1070 \newcommand*\DTMenAUtimezonesep{\space}

\DTMenAUdatesep The separator for the numeric date format.
1071 \newcommand*\DTMenAUdatesep{/}

\DTMenAUtimesep The separator for the numeric time format.
1072 \newcommand*\DTMenAUtimesep{:}

Provide keys that can be used in \DTMlangsetup to set these separators.
1073 \DTMdefkey{en-AU}{dowdaysep}{\renewcommand*\DTMenAUdowdaysep{#1}}
1074 \DTMdefkey{en-AU}{daymonthsep}{\renewcommand*\DTMenAUdaymonthsep{#1}}
1075 \DTMdefkey{en-AU}{monthyearsep}{\renewcommand*\DTMenAUmonthyearsep{#1}}
1076 \DTMdefkey{en-AU}{datetimesep}{\renewcommand*\DTMenAUdatetimesep{#1}}
1077 \DTMdefkey{en-AU}{timezonesep}{\renewcommand*\DTMenAUtimezonesep{#1}}
1078 \DTMdefkey{en-AU}{datesep}{\renewcommand*\DTMenAUdatesep{#1}}
1079 \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.

```
1080 \DTMdefboolkey{en-AU}{abbr}[true]{}
```

The default is the full name.

```
1081 \DTMsetbool{en-AU}{abbr}{false}
```

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

```
1082 \DTMdefboolkey{en-AU}{mapzone}[true]{}
```

The default is no mappings.

```
1083 \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.)

```
1084 \DTMdefboolkey{en-AU}{showdayofmonth}[true]{}
```

The default is to show the day of the month.

```
1085 \DTMsetbool{en-AU}{showdayofmonth}{true}
```

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

```
1086 \DTMdefboolkey{en-AU}{showyear}[true]{}
```

The default is to show the year.

```
1087 \DTMsetbool{en-AU}{showyear}{true}
```

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

```
1088 \newcommand*{\DTMenAUfmtordsuffix}[1]{}
```

Define a setting to change the ordinal suffix style.

```
1089 \DTMdefchoicekey{en-AU}{ord}[\val\nr]{level,raise,omit,sc}{%
```

```
1090 \ifcase\nr\relax
```

```
1091 \renewcommand*{\DTMenAUfmtordsuffix}[1]{##1}%
```

```
1092 \or
```

```
1093 \renewcommand*{\DTMenAUfmtordsuffix}[1]{%
```

```
1094 \DTMtexorpdfstring{\protect\textsuperscript{##1}}{##1}}%
```

```
1095 \or
```

```
1096 \renewcommand*{\DTMenAUfmtordsuffix}[1]{}%
```

```
1097 \or
```

```
1098 \renewcommand*{\DTMenAUfmtordsuffix}[1]{%
```

```
1099 \DTMtexorpdfstring{\protect\textsc{##1}}{##1}}%
```

```
1100 \fi
```

```
1101 }
```

Define a setting to change zone mappings.

```
1102 \DTMdefchoicekey{en-AU}{zone}[\val\nr]{%
```

```
1103 {std,standard,dst,daylight,central,central-western,western%
```

```
1104 eastern,christmas,lord-howe,cocos,keeling,clear}}%
```

```
1105 {%
```

```
1106 \ifcase\nr\relax
```

```

1107 % std
1108 \appto\DTMenAUzonemaps{\DTMenAUstdzonemaps}%
1109 \DTMenAUstdzonemaps
1110 \or
1111 % standard
1112 \appto\DTMenAUzonemaps{\DTMenAUstdzonemaps}%
1113 \DTMenAUstdzonemaps
1114 \or
1115 % dst
1116 \appto\DTMenAUzonemaps{\DTMenAUdstzonemaps}%
1117 \DTMenAUdstzonemaps
1118 \or
1119 % daylight
1120 \appto\DTMenAUzonemaps{\DTMenAUdstzonemaps}%
1121 \DTMenAUdstzonemaps
1122 \or
1123 % central
1124 \appto\DTMenAUzonemaps{\DTMenAUcentralzonemaps}%
1125 \DTMenAUcentralzonemaps
1126 \or
1127 % central-western
1128 \appto\DTMenAUzonemaps{\DTMenAUcentralwesternzonemaps}%
1129 \DTMenAUcentralwesternzonemaps
1130 \or
1131 % western
1132 \appto\DTMenAUzonemaps{\DTMenAUwesternzonemaps}%
1133 \DTMenAUwesternzonemaps
1134 \or
1135 % eastern
1136 \appto\DTMenAUzonemaps{\DTMenAUEasternzonemaps}%
1137 \DTMenAUEasternzonemaps
1138 \or
1139 % christmas
1140 \appto\DTMenAUzonemaps{\DTMenAUchristmaszonemaps}%
1141 \DTMenAUchristmaszonemaps
1142 \or
1143 % lord-howe
1144 \appto\DTMenAUzonemaps{\DTMenAULordhowezonemaps}%
1145 \DTMenAULordhowezonemaps
1146 \or
1147 % norfolk
1148 \appto\DTMenAUzonemaps{\DTMenAUnorfolkzonemaps}%
1149 \DTMenAUnorfolkzonemaps
1150 \or
1151 % cocos
1152 \appto\DTMenAUzonemaps{\DTMenAUCocoszonemaps}%
1153 \DTMenAUCocoszonemaps
1154 \or
1155 % keeling
1156 \appto\DTMenAUzonemaps{\DTMenAUCocoszonemaps}%

```

```

1157 \DTMenAUCocoszonemaps
1158 \or
1159 % clear
1160 \renewcommand*\DTMenAUzonemaps-{}%
1161 \DTMclearmap{6}{30}%
1162 \DTMclearmap{7}{00}%
1163 \DTMclearmap{8}{00}%
1164 \DTMclearmap{8}{45}%
1165 \DTMclearmap{9}{00}%
1166 \DTMclearmap{9}{30}%
1167 \DTMclearmap{10}{00}%
1168 \DTMclearmap{10}{30}%
1169 \DTMclearmap{11}{00}%
1170 \fi
1171 }

Define the en-AU style.

1172 \DTMnewstyle
1173 {en-AU}% label
1174 {% date style
1175 \renewcommand*\DTMenglishfmtordsuffix{\DTMenAUfmtordsuffix}%
1176 \renewcommand*\DTMdisplaydate[4]{%
1177 \ifDTMshowdown
1178 \ifnum##4>-1%
1179 \DTMifbool{en-AU}{abbr}%
1180 {\DTMenglishshortweekdayname{##4}}%
1181 {\DTMenglishweekdayname{##4}}%
1182 \DTMenAUDowdaysep
1183 \fi
1184 \fi
1185 \DTMifbool{en-AU}{showdayofmonth}%
1186 {%
1187 \DTMenglishordinal{##3}%
1188 \DTMenAUdaymonthsep
1189 }%
1190 {}%
1191 \DTMifbool{en-AU}{abbr}%
1192 {\DTMenglishshortmonthname{##2}}%
1193 {\DTMenglishmonthname{##2}}%
1194 \DTMifbool{en-AU}{showyear}%
1195 {%
1196 \DTMenAUmonthyearsep\number##1 % space intended
1197 }%
1198 {}%
1199 }%
1200 \renewcommand*\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
1201 }%
1202 {% time style
1203 \renewcommand*\DTMenglishtimesep{\DTMenAUTimesep}%
1204 \DTMsettimestyle{englishampm}%

```

```

1205 }%
1206 {% zone style
1207   \DTMresetzones
1208   \DTMenAUzonemaps
1209   \renewcommand*\DTMdisplayzone}[2]{%
1210     \DTMifbool{en-AU}{mapzone}%
1211     {\DTMusezonemapordefault{##1}{##2}}%
1212     {%
1213       \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
1214       \ifDTMshowzoneminutes\DTMenAUtimesep\DTMtwodigits{##2}\fi
1215     }%
1216   }%
1217 }%
1218 {% full style
1219   \renewcommand*\DTMdisplay}[9]{%
1220     \ifDTMshowdate
1221       \DTMdisplaydate{##1}{##2}{##3}{##4}%
1222       \DTMenAUdatetimesep
1223     \fi
1224     \DTMdisplaytime{##5}{##6}{##7}%
1225     \ifDTMshowzone
1226       \DTMenAUtimezonesep
1227       \DTMdisplayzone{##8}{##9}%
1228     \fi
1229   }%
1230   \renewcommand*\DTMDisplay}{\DTMdisplay}%
1231 }%

```

Define numeric style.

```

1232 \DTMnewstyle
1233 {en-AU-numeric}% label
1234 {% date style
1235   \renewcommand*\DTMdisplaydate[4]{%
1236     \DTMifbool{en-AU}{showdayofmonth}%
1237     {%
1238       \number##3 % space intended
1239       \DTMenAUdatesep
1240     }%
1241   }%
1242   \number##2 % space intended
1243   \DTMifbool{en-AU}{showyear}%
1244   {%
1245     \DTMenAUdatesep
1246     \number##1 % space intended
1247   }%
1248 }%
1249 }%
1250 \renewcommand*\DTMDisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
1251 }%
1252 {% time style

```

```

1253 \renewcommand*\DTMdisplaytime[3]{%
1254 \number##1
1255 \DTMenAUtimesep\DTMtwodigits{##2}%
1256 \ifDTMshowseconds\DTMenAUtimesep\DTMtwodigits{##3}\fi
1257 }%
1258 }%
1259 {% zone style
1260 \DTMresetzones
1261 \DTMenAUzonemaps
1262 \renewcommand*\DTMdisplayzone}[2]{%
1263 \DTMifbool{en-AU}{mapzone}%
1264 {\DTMusedzonemapordefault{##1}{##2}}%
1265 {%
1266 \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
1267 \ifDTMshowzoneminutes\DTMenAUtimesep\DTMtwodigits{##2}\fi
1268 }%
1269 }%
1270 }%
1271 {% full style
1272 \renewcommand*\DTMdisplay}[9]{%
1273 \ifDTMshowdate
1274 \DTMdisplaydate{##1}{##2}{##3}{##4}%
1275 \DTMenAUdatetimesep
1276 \fi
1277 \DTMdisplaytime{##5}{##6}{##7}%
1278 \ifDTMshowzone
1279 \DTMenAUtimezonesep
1280 \DTMdisplayzone{##8}{##9}%
1281 \fi
1282 }%
1283 \renewcommand*\DTMDisplay{\DTMdisplay}%
1284 }

```

`\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.

```

1285 \newcommand*\DTMenAUzonemaps){%
1286 \DTMdefzonemap{10}{30}{ACDT}% Australian Central Daylight Time
1287 \DTMdefzonemap{11}{00}{AEDT}% Australian Eastern Daylight Time
1288 \DTMdefzonemap{9}{30}{ACST}% Australian Central Standard Time
1289 \DTMdefzonemap{8}{45}{ACWST}% Australian Central Western Standard Time
1290 \DTMdefzonemap{9}{00}{ACWDT}% Australian Central Western Daylight Time
1291 \DTMdefzonemap{10}{00}{AEDT}% Australian Eastern Standard Time
1292 \DTMdefzonemap{8}{00}{AWDT}% Australian Western Standard Time
1293 \DTMdefzonemap{7}{00}{CXT}% Christmas Island Time
1294 \DTMdefzonemap{11}{30}{NFT}% Norfolk Island Time
1295 }

```

`\DTMenAUstdzonemaps` Just the standard time zone mappings.

```

1296 \newcommand*\DTMenAUstdzonemaps){%
1297 \DTMdefzonemap{6}{30}{CCT}%

```

```

1298 \DTMdefzonemap{7}{00}{CXT}%
1299 \DTMdefzonemap{9}{30}{ACST}%
1300 \DTMdefzonemap{8}{00}{AWST}%
1301 \DTMdefzonemap{8}{45}{ACWST}%
1302 \DTMdefzonemap{10}{00}{AEST}%
1303 \DTMdefzonemap{10}{30}{LHST}%
1304 \DTMdefzonemap{11}{00}{NFT}%
1305 }

```

`\DTMenAUdstzonemaps` Just daylight saving mappings. (Conflicts omitted.)

```

1306 \newcommand*\DTMenAUdstzonemaps{%
1307 \DTMdefzonemap{9}{00}{AWDT}%
1308 \DTMdefzonemap{10}{30}{ACDT}%
1309 \DTMdefzonemap{11}{00}{AEDT}%
1310 }

```

`\DTMenAUcentralzonemaps` Just the Australian Central zone mappings (ACST and ACDT).

```

1311 \newcommand*\DTMenAUcentralzonemaps{%
1312 \DTMdefzonemap{9}{30}{ACST}%
1313 \DTMdefzonemap{10}{30}{ACDT}%
1314 }

```

`\DTMenAUcentralwesternzonemaps` Just the Australian Central Western zone mapping (ACWST).

```

1315 \newcommand*\DTMenAUcentralwesternzonemaps{%
1316 \DTMdefzonemap{8}{45}{ACWST}%
1317 }

```

`\DTMenAUwesternzonemaps` Just the Australian Western zone mappings (AWST and AWDT).

```

1318 \newcommand*\DTMenAUwesternzonemaps{%
1319 \DTMdefzonemap{8}{00}{AWST}%
1320 \DTMdefzonemap{9}{00}{AWDT}%
1321 }

```

`\DTMenAUeasternzonemaps` Just the Australian Eastern zone mappings (AEST and AEDT).

```

1322 \newcommand*\DTMenAUeasternzonemaps{%
1323 \DTMdefzonemap{10}{00}{AEST}%
1324 \DTMdefzonemap{11}{00}{AEDT}%
1325 }

```

`\DTMenAUchristmaszonemaps` Just the Christmas Island zone mapping (CXT).

```

1326 \newcommand*\DTMenAUchristmaszonemaps{%
1327 \DTMdefzonemap{7}{00}{CXT}%
1328 }

```

`\DTMenAUlordhowezonemaps` Just the Lord Howe Island zone mappings (LHST and LHDT).

```

1329 \newcommand*\DTMenAUlordhowezonemaps{%
1330 \DTMdefzonemap{10}{30}{LHST}%
1331 \DTMdefzonemap{11}{00}{LHDT}%
1332 }

```

`\DTMenAUnorfolkzonemaps` Just the Norfolk Island zone mapping (NFT).

```
1333 \newcommand*\DTMenAUnorfolkzonemaps}{%
1334 \DTMdefzonemap{11}{00}{NFT}%
1335 }
```

`\DTMenAUcocoszonemaps` Just the Cocos (Keeling) Island zone mapping (CCT).

```
1336 \newcommand*\DTMenAUcocoszonemaps}{%
1337 \DTMdefzonemap{6}{30}{CCT}%
1338 }
```

Switch style according to the `useregional` setting.

```
1339 \DTMifcaseregional
1340 {}% do nothing
1341 {\DTMsetstyle{en-AU}}%
1342 {\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.)

```
1343 \ifcsundef{date\CurrentTrackedDialect}
1344 {% do nothing
1345 \ifundef\dateenglish
1346 {%
1347 }%
1348 {%
1349 \def\dateenglish{%
1350 \DTMifcaseregional
1351 }% do nothing
1352 {\DTMsetstyle{en-AU}}%
1353 {\DTMsetstyle{en-AU-numeric}}%
1354 }%
1355 }%
1356 }%
1357 {%
1358 \csdef{date\CurrentTrackedDialect}{%
1359 \DTMifcaseregional
1360 }% do nothing
1361 {\DTMsetstyle{en-AU}}%
1362 {\DTMsetstyle{en-AU-numeric}}%
1363 }%
1364 }%
```

14.7 English (New Zealand) Code (`datetime2-en-NZ.1df`)

This file contains the New Zealand English style.

Identify this module.

```
1365 \ProvidesDateTimeModule{en-NZ}[2016/03/09 v1.04 (NLCT)]
```

Load base English module.

```
1366 \RequireDateTimeModule{english-base}
```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The default is the full name.

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

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

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

The default is no mappings.

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

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.)

```
1385 \DTMdefboolkey{en-NZ}{showdayofmonth}[true]{}
```

The default is to show the day of the month.

```
1386 \DTMsetbool{en-NZ}{showdayofmonth}{true}
```

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

```
1387 \DTMdefboolkey{en-NZ}{showyear}[true]{}
```

The default is to show the year.

```
1388 \DTMsetbool{en-NZ}{showyear}{true}
```

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

```
1389 \newcommand*{\DTMenNZfmtordsuffix}[1]{}
```

Define a setting to change the ordinal suffix style.

```
1390 \DTMdefchoicekey{en-NZ}{ord}[\val\nr]{level,raise,omit,sc}{%
```

```
1391 \ifcase\nr\relax
```

```
1392 \renewcommand*{\DTMenNZfmtordsuffix}[1]{##1}%
```

```
1393 \or
```

```
1394 \renewcommand*{\DTMenNZfmtordsuffix}[1]{%
```

```
1395 \DTMtexorpdfstring{\protect\textsuperscript{##1}}{##1}}%
```

```
1396 \or
```

```
1397 \renewcommand*{\DTMenNZfmtordsuffix}[1]{}%
```

```
1398 \or
```

```
1399 \renewcommand*{\DTMenNZfmtordsuffix}[1]{%
```

```
1400 \DTMtexorpdfstring{\protect\textsc{##1}}{##1}}%
```

```
1401 \fi
```

```
1402 }
```

Define the en-NZ style.

```
1403 \DTMnewstyle
```

```
1404 {en-NZ}% label
```

```
1405 {% date style
```

```
1406 \renewcommand*{\DTMenglishfmtordsuffix}{\DTMenNZfmtordsuffix}%
```

```
1407 \renewcommand*{\DTMdisplaydate}[4]{%
```

```
1408 \ifDTMshowdow
```

```
1409 \ifnum##4>-1%
```

```
1410 \DTMifbool{en-NZ}{abbr}%
```

```
1411 {\DTMenglishshortweekdayname{##4}}%
```

```
1412 {\DTMenglishweekdayname{##4}}%
```

```
1413 \DTMenNZdowdaysep
```

```
1414 \fi
```

```
1415 \fi
```

```
1416 \DTMifbool{en-NZ}{showdayofmonth}%
```

```
1417 {%
```

```
1418 \DTMenglishordinal{##3}%
```

```
1419 \DTMenNZdaymonthsep
```

```
1420 }%
```

```

1421     {}%
1422     \DTMifbool{en-NZ}{abbr}%
1423     {\DTMenglishshortmonthname{##2}}%
1424     {\DTMenglishmonthname{##2}}%
1425     \DTMifbool{en-NZ}{showyear}%
1426     {%
1427         \DTMenNZmonthyearsep\number##1 % space intended
1428     }%
1429     {}%
1430 }%
1431 \renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
1432 }%
1433 {% time style
1434 \renewcommand*{\DTMenglishtimesep}{\DTMenNZtimesep}%
1435 \DTMsettimestyle{englishampm}%
1436 }%
1437 {% zone style
1438 \DTMresetzones
1439 \DTMenNZzonemaps
1440 \renewcommand*{\DTMdisplayzone}[2]{%
1441     \DTMifbool{en-NZ}{mapzone}%
1442     {\DTMusezonemapordefault{##1}{##2}}%
1443     {%
1444         \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
1445         \ifDTMshowzoneminutes\DTMenNZtimesep\DTMtwodigits{##2}\fi
1446     }%
1447 }%
1448 }%
1449 {% full style
1450 \renewcommand*{\DTMdisplay}[9]{%
1451     \ifDTMshowdate
1452         \DTMdisplaydate{##1}{##2}{##3}{##4}%
1453         \DTMenNZdatetimesep
1454     \fi
1455     \DTMdisplaytime{##5}{##6}{##7}%
1456     \ifDTMshowzone
1457         \DTMenNZtimezonesep
1458         \DTMdisplayzone{##8}{##9}%
1459     \fi
1460 }%
1461 \renewcommand*{\DTMdisplay}{\DTMdisplay}%
1462 }%

Define numeric style.
1463 \DTMnewstyle
1464 {en-NZ-numeric}% label
1465 {% date style
1466     \renewcommand*{\DTMdisplaydate}[4]{%
1467         \DTMifbool{en-NZ}{showdayofmonth}%
1468     }%

```

```

1469     \number##3 % space intended
1470     \DTMenNZdatesep
1471   }%
1472   {}%
1473   \number##2 % space intended
1474   \DTMifbool{en-NZ}{showyear}%
1475   {%
1476     \DTMenNZdatesep
1477     \number##1 % space intended
1478   }%
1479   {}%
1480   }%
1481   \renewcommand*\DTMdisplaydate[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
1482 }%
1483 {% time style
1484   \renewcommand*\DTMdisplaytime[3]{%
1485     \number##1
1486     \DTMenNZtimesep\DTMtwodigits{##2}%
1487     \ifDTMshowseconds\DTMenNZtimesep\DTMtwodigits{##3}\fi
1488   }%
1489 }%
1490 {% zone style
1491   \DTMresetzones
1492   \DTMenNZzonemaps
1493   \renewcommand*\DTMdisplayzone[2]{%
1494     \DTMifbool{en-NZ}{mapzone}%
1495     {\DTMusedzonemapordefault{##1}{##2}}%
1496     {%
1497       \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
1498       \ifDTMshowzoneminutes\DTMenNZtimesep\DTMtwodigits{##2}\fi
1499     }%
1500   }%
1501 }%
1502 {% full style
1503   \renewcommand*\DTMdisplay[9]{%
1504     \ifDTMshowdate
1505       \DTMdisplaydate{##1}{##2}{##3}{##4}%
1506       \DTMenNZdatetimesep
1507     \fi
1508     \DTMdisplaytime{##5}{##6}{##7}%
1509     \ifDTMshowzone
1510       \DTMenNZtimezonesep
1511       \DTMdisplayzone{##8}{##9}%
1512     \fi
1513   }%
1514   \renewcommand*\DTMdisplay{\DTMdisplay}%
1515 }

```

`\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.

```

1516 \newcommand*\DTMenNZzonemaps}{%
1517   \DTMdefzonemap{12}{00}{NZST}%
1518   \DTMdefzonemap{12}{45}{CHAST}%
1519   \DTMdefzonemap{13}{00}{NZDT}%
1520   \DTMdefzonemap{13}{45}{CHADT}%
1521 }

```

Switch style according to the `useregional` setting.

```

1522 \DTMifcaseregional
1523 {}% do nothing
1524 {\DTMsetstyle{en-NZ}}%
1525 {\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.)

```

1526 \ifcsundef{date\CurrentTrackedDialect}
1527 {% do nothing
1528   \ifundef\dateenglish
1529   {%
1530   }%
1531   {%
1532     \def\dateenglish{%
1533       \DTMifcaseregional
1534       }% do nothing
1535       {\DTMsetstyle{en-NZ}}%
1536       {\DTMsetstyle{en-NZ-numeric}}%
1537     }%
1538   }%
1539 }%
1540 {%
1541   \csdef{date\CurrentTrackedDialect}{%
1542     \DTMifcaseregional
1543     }% do nothing
1544     {\DTMsetstyle{en-NZ}}%
1545     {\DTMsetstyle{en-NZ-numeric}}%
1546   }%
1547 }%

```

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

This file contains the `en-GG` style.

Identify this module.

```

1548 \ProvidesDateTimeModule{en-GG}[2016/03/09 v1.04 (NLCT)]

```

Load base English module.

```

1549 \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.

`\DTMenGGdowdaysep` The separator between the day of week name and the day of month number for the text format.
1550 `\newcommand*{\DTMenGGdowdaysep}{\space}`

`\DTMenGGdaymonthsep` The separator between the day and month for the text format.
1551 `\newcommand*{\DTMenGGdaymonthsep}{\space}`

`\DTMenGGmonthyearsep` The separator between the month and year for the text format.
1552 `\newcommand*{\DTMenGGmonthyearsep}{\space}`

`\DTMenGGdatetimesep` The separator between the date and time blocks in the full format (either text or numeric).
1553 `\newcommand*{\DTMenGGdatetimesep}{\space}`

`\DTMenGGtimezonesep` The separator between the time and zone blocks in the full format (either text or numeric).
1554 `\newcommand*{\DTMenGGtimezonesep}{\space}`

`\DTMenGGdatesep` The separator for the numeric date format.
1555 `\newcommand*{\DTMenGGdatesep}{/}`

`\DTMenGGtimesep` The separator for the numeric time format.
1556 `\newcommand*{\DTMenGGtimesep}{:}`

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

1557 `\DTMdefkey{en-GG}{dowdaysep}{\renewcommand*{\DTMenGGdowdaysep}{#1}}`
1558 `\DTMdefkey{en-GG}{daymonthsep}{\renewcommand*{\DTMenGGdaymonthsep}{#1}}`
1559 `\DTMdefkey{en-GG}{monthyearsep}{\renewcommand*{\DTMenGGmonthyearsep}{#1}}`
1560 `\DTMdefkey{en-GG}{datetimesep}{\renewcommand*{\DTMenGGdatetimesep}{#1}}`
1561 `\DTMdefkey{en-GG}{timezonesep}{\renewcommand*{\DTMenGGtimezonesep}{#1}}`
1562 `\DTMdefkey{en-GG}{datesep}{\renewcommand*{\DTMenGGdatesep}{#1}}`
1563 `\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.

1564 `\DTMdefboolkey{en-GG}{abbr}[true]{}`

The default is the full name.

1565 `\DTMsetbool{en-GG}{abbr}{false}`

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

1566 `\DTMdefboolkey{en-GG}{mapzone}[true]{}`

The default is to use mappings.

1567 `\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.)

1568 `\DTMdefboolkey{en-GG}{showdayofmonth}[true]{}`

The default is to show the day of the month.

```
1569 \DTMsetbool{en-GG}{showdayofmonth}{true}
```

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

```
1570 \DTMdefboolkey{en-GG}{showyear}[true]{} 
```

The default is to show the year.

```
1571 \DTMsetbool{en-GG}{showyear}{true}
```

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

```
1572 \newcommand*{\DTMenGGfmtordsuffix}[1]{#1}
```

Define a setting to change the ordinal suffix style.

```
1573 \DTMdefchoicakey{en-GG}{ord}[\val\nr]{level,raise,omit,sc}{%
```

```
1574 \ifcase\nr\relax
```

```
1575 \renewcommand*{\DTMenGGfmtordsuffix}[1]{##1}%
```

```
1576 \or
```

```
1577 \renewcommand*{\DTMenGGfmtordsuffix}[1]{%
```

```
1578 \DTMtexorpdfstring{\protect\textsuperscript{##1}}{##1}}%
```

```
1579 \or
```

```
1580 \renewcommand*{\DTMenGGfmtordsuffix}[1]{}%
```

```
1581 \or
```

```
1582 \renewcommand*{\DTMenGGfmtordsuffix}[1]{%
```

```
1583 \DTMtexorpdfstring{\protect\textsc{##1}}{##1}}%
```

```
1584 \fi
```

```
1585 }
```

Define the en-GG style.

```
1586 \DTMnewstyle
```

```
1587 {en-GG}% label
```

```
1588 {% date style
```

```
1589 \renewcommand*{\DTMenglishfmtordsuffix}{\DTMenGGfmtordsuffix}%
```

```
1590 \renewcommand*{\DTMdisplaydate}[4]{%
```

```
1591 \ifDTMshowdown
```

```
1592 \ifnum##4>-1%
```

```
1593 \DTMifbool{en-GG}{abbr}%
```

```
1594 {\DTMenglishshortweekdayname{##4}}%
```

```
1595 {\DTMenglishweekdayname{##4}}%
```

```
1596 \DTMenGGdowdaysep
```

```
1597 \fi
```

```
1598 \fi
```

```
1599 \DTMifbool{en-GG}{showdayofmonth}%
```

```
1600 {%
```

```
1601 \DTMenglishordinal{##3}%
```

```
1602 \DTMenGGdaymonthsep
```

```
1603 }%
```

```
1604 {}%
```

```
1605 \DTMifbool{en-GG}{abbr}%
```

```
1606 {\DTMenglishshortmonthname{##2}}%
```

```
1607 {\DTMenglishmonthname{##2}}%
```

```

1608     \DTMifbool{en-GG}{showyear}%
1609     {%
1610         \DTMenGGmonthyearsep\number##1 % space intended
1611     }%
1612     {}%
1613 }%
1614 \renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
1615 }%
1616 {% time style
1617     \renewcommand*\DTMenglishtimesep{\DTMenGGtimesep}%
1618     \DTMsettimestyle{englishampm}%
1619 }%
1620 {% zone style
1621     \DTMresetzones
1622     \DTMenGGzonemaps
1623     \renewcommand*{\DTMdisplayzone}[2]{%
1624         \DTMifbool{en-GG}{mapzone}%
1625         {\DTMusedzonemapordefault{##1}{##2}}%
1626         {%
1627             \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
1628             \ifDTMshowzoneminutes\DTMenGGtimesep\DTMtwodigits{##2}\fi
1629         }%
1630     }%
1631 }%
1632 {% full style
1633     \renewcommand*{\DTMdisplay}[9]{%
1634         \ifDTMshowdate
1635             \DTMdisplaydate{##1}{##2}{##3}{##4}%
1636             \DTMenGGdatetimesep
1637         \fi
1638         \DTMdisplaytime{##5}{##6}{##7}%
1639         \ifDTMshowzone
1640             \DTMenGGtimezonesep
1641             \DTMdisplayzone{##8}{##9}%
1642         \fi
1643     }%
1644     \renewcommand*{\DTMdisplay}{\DTMdisplay}%
1645 }%

```

Define numeric style.

```

1646 \DTMnewstyle
1647 {en-GG-numeric}% label
1648 {% date style
1649     \renewcommand*\DTMdisplaydate[4]{%
1650         \DTMifbool{en-GG}{showdayofmonth}%
1651         {%
1652             \number##3 % space intended
1653             \DTMenGGdatesep
1654         }%
1655     }%

```

```

1656     \number##2 % space intended
1657     \DTMifbool{en-GG}{showyear}%
1658     {%
1659         \DTMenGGdatesep
1660         \number##1 % space intended
1661     }%
1662     }%
1663 }%
1664 \renewcommand*\DTMDisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
1665 }%
1666 {% time style
1667     \renewcommand*\DTMdisplaytime[3]{%
1668         \number##1
1669         \DTMenGGtimesep\DTMtwodigits{##2}%
1670         \ifDTMshowseconds\DTMenGGtimesep\DTMtwodigits{##3}\fi
1671     }%
1672 }%
1673 {% zone style
1674     \DTMresetzones
1675     \DTMenGGzonemaps
1676     \renewcommand*\DTMdisplayzone}[2]{%
1677         \DTMifbool{en-GG}{mapzone}%
1678         {\DTMusedzonemapordefault{##1}{##2}}%
1679         {%
1680             \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
1681             \ifDTMshowzoneminutes\DTMenGGtimesep\DTMtwodigits{##2}\fi
1682         }%
1683     }%
1684 }%
1685 {% full style
1686     \renewcommand*\DTMdisplay}[9]{%
1687         \ifDTMshowdate
1688             \DTMdisplaydate{##1}{##2}{##3}{##4}%
1689             \DTMenGGdatetimesep
1690             \fi
1691             \DTMdisplaytime{##5}{##6}{##7}%
1692             \ifDTMshowzone
1693                 \DTMenGGtimezonesep
1694                 \DTMdisplayzone{##8}{##9}%
1695             \fi
1696         }%
1697     \renewcommand*\DTMDisplay}{\DTMdisplay}%
1698 }

```

`\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.

```

1699 \newcommand*\DTMenGGzonemaps}{%
1700     \DTMdefzonemap{00}{00}{GMT}%
1701     \DTMdefzonemap{01}{00}{BST}%
1702 }

```


Switch style according to the `useregional` setting.

```
1703 \DTMifcaseregional
1704 {}% do nothing
1705 {\DTMsetstyle{en-GG}}%
1706 {\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.)
1707 \ifcsundef{date\CurrentTrackedDialect}
1708 {}% do nothing
1709 \ifundef\dateenglish
1710 {}%
1711 }%
1712 {}%
1713 \def\dateenglish{%
1714     \DTMifcaseregional
1715     {}% do nothing
1716     {\DTMsetstyle{en-GG}}%
1717     {\DTMsetstyle{en-GG-numeric}}%
1718 }%
1719 }%
1720 }%
1721 {}%
1722 \csdef{date\CurrentTrackedDialect}{%
1723     \DTMifcaseregional
1724     {}% do nothing
1725     {\DTMsetstyle{en-GG}}%
1726     {\DTMsetstyle{en-GG-numeric}}%
1727 }%
1728 }%
```

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

This file contains the `en-JE` style.

Identify this module.

```
1729 \ProvidesDateTimeModule{en-JE}[2016/03/09 v1.04 (NLCT)]
```

Load base English module.

```
1730 \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.

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

```
1731 \newcommand*\DTMenJEdowdaysep{\space}
```

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

```
1732 \newcommand*\DTMenJEdaymonthsep{\space}
```

`\DTMenJEmonthyearsep` The separator between the month and year for the text format.
1733 `\newcommand*{\DTMenJEmonthyearsep}{\space}`

`\DTMenJEdatetimesep` The separator between the date and time blocks in the full format (either text or numeric).
1734 `\newcommand*{\DTMenJEdatetimesep}{\space}`

`\DTMenJEtimestonesep` The separator between the time and zone blocks in the full format (either text or numeric).
1735 `\newcommand*{\DTMenJEtimestonesep}{\space}`

`\DTMenJEdatesep` The separator for the numeric date format.
1736 `\newcommand*{\DTMenJEdatesep}{/}`

`\DTMenJetimesep` The separator for the numeric time format.
1737 `\newcommand*{\DTMenJetimesep}{:}`

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

1738 `\DTMdefkey{en-JE}{dowdaysep}{\renewcommand*{\DTMenJEdowdaysep}{#1}}`
1739 `\DTMdefkey{en-JE}{daymonthsep}{\renewcommand*{\DTMenJEdaymonthsep}{#1}}`
1740 `\DTMdefkey{en-JE}{monthyearsep}{\renewcommand*{\DTMenJEmonthyearsep}{#1}}`
1741 `\DTMdefkey{en-JE}{datetimesep}{\renewcommand*{\DTMenJEdatetimesep}{#1}}`
1742 `\DTMdefkey{en-JE}{timestonesep}{\renewcommand*{\DTMenJEtimestonesep}{#1}}`
1743 `\DTMdefkey{en-JE}{datesep}{\renewcommand*{\DTMenJEdatesep}{#1}}`
1744 `\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.

1745 `\DTMdefboolkey{en-JE}{abbr}[true]{}`

The default is the full name.

1746 `\DTMsetbool{en-JE}{abbr}{false}`

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

1747 `\DTMdefboolkey{en-JE}{mapzone}[true]{}`

The default is to use mappings.

1748 `\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.)

1749 `\DTMdefboolkey{en-JE}{showdayofmonth}[true]{}`

The default is to show the day of the month.

1750 `\DTMsetbool{en-JE}{showdayofmonth}{true}`

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

1751 `\DTMdefboolkey{en-JE}{showyear}[true]{}`

The default is to show the year.

```
1752 \DTMsetbool{en-JE}{showyear}{true}
```

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

```
1753 \newcommand*{\DTMenJEfmtordsuffix}[1]{#1}
```

Define a setting to change the ordinal suffix style.

```
1754 \DTMdefchoicekey{en-JE}{ord}{\val\nr}{level,raise,omit,sc}{%
1755 \ifcase\nr\relax
1756   \renewcommand*{\DTMenJEfmtordsuffix}[1]{##1}%
1757 \or
1758   \renewcommand*{\DTMenJEfmtordsuffix}[1]{%
1759     \DTMtexorpdfstring{\protect\textsuperscript{##1}}{##1}}%
1760 \or
1761   \renewcommand*{\DTMenJEfmtordsuffix}[1]{}%
1762 \or
1763   \renewcommand*{\DTMenJEfmtordsuffix}[1]{%
1764     \DTMtexorpdfstring{\protect\textsc{##1}}{##1}}%
1765 \fi
1766 }
```

Define the en-JE style.

```
1767 \DTMnewstyle
1768 {en-JE}% label
1769 {% date style
1770   \renewcommand*{\DTMenglishfmtordsuffix}{\DTMenJEfmtordsuffix}%
1771   \renewcommand*{\DTMdisplaydate}[4]{%
1772     \ifDTMshowdow
1773       \ifnum##4>-1%
1774         \DTMifbool{en-JE}{abbr}%
1775         {\DTMenglishshortweekdayname{##4}}%
1776         {\DTMenglishweekdayname{##4}}%
1777         \DTMenJE dowdaysep
1778       \fi
1779     \fi
1780     \DTMifbool{en-JE}{showdayofmonth}%
1781     {%
1782       \DTMenglishordinal{##3}%
1783       \DTMenJE daymonthsep
1784     }%
1785     {}%
1786     \DTMifbool{en-JE}{abbr}%
1787     {\DTMenglishshortmonthname{##2}}%
1788     {\DTMenglishmonthname{##2}}%
1789     \DTMifbool{en-JE}{showyear}%
1790     {%
1791       \DTMenJEmonthyearsep\number##1 % space intended
1792     }%
1793     {}%
1794   }%
```

```

1795 \renewcommand*\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
1796 }%
1797 {% time style
1798 \renewcommand*\DTMenglishtimesep{\DTMenJETimesep}%
1799 \DTMsettimestyle{englishampm}%
1800 }%
1801 {% zone style
1802 \DTMresetzones
1803 \DTMenJEzonemaps
1804 \renewcommand*\DTMdisplayzone}[2]{%
1805 \DTMifbool{en-JE}{mapzone}%
1806 {\DTMusedzonemapordefault{##1}{##2}}%
1807 {%
1808 \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
1809 \ifDTMshowzoneminutes\DTMenJETimesep\DTMtwodigits{##2}\fi
1810 }%
1811 }%
1812 }%
1813 {% full style
1814 \renewcommand*\DTMdisplay}[9]{%
1815 \ifDTMshowdate
1816 \DTMdisplaydate{##1}{##2}{##3}{##4}%
1817 \DTMenJEdateetimesep
1818 \fi
1819 \DTMdisplaytime{##5}{##6}{##7}%
1820 \ifDTMshowzone
1821 \DTMenJETimezonesep
1822 \DTMdisplayzone{##8}{##9}%
1823 \fi
1824 }%
1825 \renewcommand*\DTMdisplay}{\DTMdisplay}%
1826 }%

```

Define numeric style.

```

1827 \DTMnewstyle
1828 {en-JE-numeric}% label
1829 {% date style
1830 \renewcommand*\DTMdisplaydate[4]{%
1831 \DTMifbool{en-JE}{showdayofmonth}%
1832 {%
1833 \number##3 % space intended
1834 \DTMenJEdatesep
1835 }%
1836 }%
1837 \number##2 % space intended
1838 \DTMifbool{en-JE}{showyear}%
1839 {%
1840 \DTMenJEdatesep
1841 \number##1 % space intended
1842 }%

```

```

1843     {}%
1844   }%
1845   \renewcommand*\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
1846 }%
1847 {% time style
1848   \renewcommand*\DTMdisplaytime[3]{%
1849     \number##1
1850     \DTMenJEtimesep\DTMtwodigits{##2}}%
1851   \ifDTMshowseconds\DTMenJEtimesep\DTMtwodigits{##3}\fi
1852 }%
1853 }%
1854 {% zone style
1855   \DTMresetzones
1856   \DTMenJEzonemaps
1857   \renewcommand*\DTMdisplayzone}[2]{%
1858     \DTMifbool{en-JE}{mapzone}%
1859     {\DTMusedzonemapordefault{##1}{##2}}%
1860     {%
1861       \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
1862       \ifDTMshowzoneminutes\DTMenJEtimesep\DTMtwodigits{##2}\fi
1863     }%
1864   }%
1865 }%
1866 {% full style
1867   \renewcommand*\DTMdisplay}[9]{%
1868     \ifDTMshowdate
1869     \DTMdisplaydate{##1}{##2}{##3}{##4}}%
1870     \DTMenJEatetimesep
1871     \fi
1872     \DTMdisplaytime{##5}{##6}{##7}}%
1873     \ifDTMshowzone
1874     \DTMenJEtimestonesep
1875     \DTMdisplayzone{##8}{##9}}%
1876     \fi
1877   }%
1878   \renewcommand*\DTMdisplay}{\DTMdisplay}}%
1879 }

```

`\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.

```

1880 \newcommand*\DTMenJEzonemaps}{%
1881   \DTMdefzonemap{00}{00}{GMT}}%
1882   \DTMdefzonemap{01}{00}{BST}}%
1883 }

```

Switch style according to the `useregional` setting.

```

1884 \DTMifcaseregional
1885 {}% do nothing
1886 {\DTMsetstyle{en-JE}}%
1887 {\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.)

```

1888 \ifcsundef{date\CurrentTrackedDialect}
1889 {% do nothing
1890 \ifundef\dateenglish
1891 {%
1892 }%
1893 {%
1894 \def\dateenglish{%
1895 \DTMifcaseregional
1896 }% do nothing
1897 {\DTMsetstyle{en-JE}}%
1898 {\DTMsetstyle{en-JE-numeric}}%
1899 }%
1900 }%
1901 }%
1902 {%
1903 \csdef{date\CurrentTrackedDialect}{%
1904 \DTMifcaseregional
1905 }% do nothing
1906 {\DTMsetstyle{en-JE}}%
1907 {\DTMsetstyle{en-JE-numeric}}%
1908 }%
1909 }%

```

14.10 English (IM) Code (datetime2-en-IM.1df)

This file contains the `en-IM` style.

Identify this module.

```
1910 \ProvidesDateTimeModule{en-IM}[2016/03/09 v1.04 (NLCT)]
```

Load base English module.

```
1911 \RequireDateTimeModule{english-base}
```

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

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

```
1912 \newcommand*\DTMenIMdowdaysep{\space}
```

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

```
1913 \newcommand*\DTMenIMdaymonthsep{\space}
```

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

```
1914 \newcommand*\DTMenIMmonthyearsep{\space}
```

`\DTMenIMdatetimesep` The separator between the date and time blocks in the full format (either text or numeric).
1915 `\newcommand*{\DTMenIMdatetimesep}{\space}`

`\DTMenIMtimezonesep` The separator between the time and zone blocks in the full format (either text or numeric).
1916 `\newcommand*{\DTMenIMtimezonesep}{\space}`

`\DTMenIMdatesep` The separator for the numeric date format.
1917 `\newcommand*{\DTMenIMdatesep}{/}`

`\DTMenIMtimesep` The separator for the numeric time format.
1918 `\newcommand*{\DTMenIMtimesep}{:}`

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

1919 `\DTMdefkey{en-IM}{dowdaysep}{\renewcommand*{\DTMenIMdowdaysep}{#1}}`
1920 `\DTMdefkey{en-IM}{daymonthsep}{\renewcommand*{\DTMenIMdaymonthsep}{#1}}`
1921 `\DTMdefkey{en-IM}{monthyearsep}{\renewcommand*{\DTMenIMmonthyearsep}{#1}}`
1922 `\DTMdefkey{en-IM}{datetimesep}{\renewcommand*{\DTMenIMdatetimesep}{#1}}`
1923 `\DTMdefkey{en-IM}{timezonesep}{\renewcommand*{\DTMenIMtimezonesep}{#1}}`
1924 `\DTMdefkey{en-IM}{datesep}{\renewcommand*{\DTMenIMdatesep}{#1}}`
1925 `\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.

1926 `\DTMdefboolkey{en-IM}{abbr}[true]{}`

The default is the full name.

1927 `\DTMsetbool{en-IM}{abbr}{false}`

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

1928 `\DTMdefboolkey{en-IM}{mapzone}[true]{}`

The default is to use mappings.

1929 `\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.)

1930 `\DTMdefboolkey{en-IM}{showdayofmonth}[true]{}`

The default is to show the day of the month.

1931 `\DTMsetbool{en-IM}{showdayofmonth}{true}`

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

1932 `\DTMdefboolkey{en-IM}{showyear}[true]{}`

The default is to show the year.

1933 `\DTMsetbool{en-IM}{showyear}{true}`

```

\DTMenIMfmtordsuffix Define the ordinal suffix to be used by this style.
1934 \newcommand*\DTMenIMfmtordsuffix}[1]{#1}

Define a setting to change the ordinal suffix style.
1935 \DTMdefchoicekey{en-IM}{ord}[\val\nr]{level,raise,omit,sc}{%
1936 \ifcase\nr\relax
1937 \renewcommand*\DTMenIMfmtordsuffix}[1]{##1}%
1938 \or
1939 \renewcommand*\DTMenIMfmtordsuffix}[1]{%
1940 \DTMtexpdfstring{\protect\textsuperscript{##1}}{##1}}%
1941 \or
1942 \renewcommand*\DTMenIMfmtordsuffix}[1]{}%
1943 \or
1944 \renewcommand*\DTMenIMfmtordsuffix}[1]{%
1945 \DTMtexpdfstring{\protect\textsc{##1}}{##1}}%
1946 \fi
1947 }

Define the en-IM style.
1948 \DTMnewstyle
1949 {en-IM}% label
1950 {% date style
1951 \renewcommand*\DTMenglishfmtordsuffix{\DTMenIMfmtordsuffix}%
1952 \renewcommand*\DTMdisplaydate[4]{%
1953 \ifDTMshowdow
1954 \ifnum##4>-1%
1955 \DTMifbool{en-IM}{abbr}%
1956 {\DTMenglishshortweekdayname{##4}}%
1957 {\DTMenglishweekdayname{##4}}%
1958 \DTMenIMdowdaysep
1959 \fi
1960 \fi
1961 \DTMifbool{en-IM}{showdayofmonth}%
1962 {%
1963 \DTMenglishordinal{##3}%
1964 \DTMenIMdaymonthsep
1965 }%
1966 {}%
1967 \DTMifbool{en-IM}{abbr}%
1968 {\DTMenglishshortmonthname{##2}}%
1969 {\DTMenglishmonthname{##2}}%
1970 \DTMifbool{en-IM}{showyear}%
1971 {%
1972 \DTMenIMmonthyearsep\number##1 % space intended
1973 }%
1974 {}%
1975 }%
1976 \renewcommand*\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
1977 }%
1978 {% time style

```



```

1979 \renewcommand\DTMenglishtimesep{\DTMenIMtimesep}%
1980 \DTMsettimestyle{englishampm}%
1981 }%
1982 {% zone style
1983 \DTMresetzones
1984 \DTMenIMzonemaps
1985 \renewcommand*\DTMdisplayzone}[2]{%
1986 \DTMifbool{en-IM}{mapzone}%
1987 {\DTMusezonemapordefault{##1}{##2}}%
1988 {%
1989 \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
1990 \ifDTMshowzoneminutes\DTMenIMtimesep\DTMtwodigits{##2}\fi
1991 }%
1992 }%
1993 }%
1994 {% full style
1995 \renewcommand*\DTMdisplay}[9]{%
1996 \ifDTMshowdate
1997 \DTMdisplaydate{##1}{##2}{##3}{##4}%
1998 \DTMenIMdatetimesep
1999 \fi
2000 \DTMdisplaytime{##5}{##6}{##7}%
2001 \ifDTMshowzone
2002 \DTMenIMtimezonesep
2003 \DTMdisplayzone{##8}{##9}%
2004 \fi
2005 }%
2006 \renewcommand*\DTMDisplay}{\DTMdisplay}%
2007 }%

Define numeric style.
2008 \DTMnewstyle
2009 {en-IM-numeric}% label
2010 {% date style
2011 \renewcommand*\DTMdisplaydate[4]{%
2012 \DTMifbool{en-IM}{showdayofmonth}%
2013 {%
2014 \number##3 % space intended
2015 \DTMenIMdatesep
2016 }%
2017 }%
2018 \number##2 % space intended
2019 \DTMifbool{en-IM}{showyear}%
2020 {%
2021 \DTMenIMdatesep
2022 \number##1 % space intended
2023 }%
2024 }%
2025 }%
2026 \renewcommand*\DTMDisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%

```

```

2027 }%
2028 {% time style
2029   \renewcommand*{\DTMdisplaytime}[3]{%
2030     \number##1
2031     \DTMenIMtimesep\DTMtwdigits{##2}%
2032     \ifDTMshowseconds\DTMenIMtimesep\DTMtwdigits{##3}\fi
2033   }%
2034 }%
2035 {% zone style
2036   \DTMresetzones
2037   \DTMenIMzonemaps
2038   \renewcommand*{\DTMdisplayzone}[2]{%
2039     \DTMifbool{en-IM}{mapzone}%
2040     {\DTMusezonemapordefault{##1}{##2}}%
2041     {%
2042       \ifnum##1<0\else+\fi\DTMtwdigits{##1}%
2043       \ifDTMshowzoneminutes\DTMenIMtimesep\DTMtwdigits{##2}\fi
2044     }%
2045   }%
2046 }%
2047 {% full style
2048   \renewcommand*{\DTMdisplay}[9]{%
2049     \ifDTMshowdate
2050       \DTMdisplaydate{##1}{##2}{##3}{##4}%
2051       \DTMenIMdatetimesep
2052     \fi
2053     \DTMdisplaytime{##5}{##6}{##7}%
2054     \ifDTMshowzone
2055       \DTMenIMtimezonesep
2056       \DTMdisplayzone{##8}{##9}%
2057     \fi
2058   }%
2059   \renewcommand*{\DTMDisplay}{\DTMdisplay}%
2060 }

```

`\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.

```

2061 \newcommand*{\DTMenIMzonemaps}{%
2062   \DTMdefzonemap{00}{00}{GMT}%
2063   \DTMdefzonemap{01}{00}{BST}%
2064 }

```

Switch style according to the `useregional` setting.

```

2065 \DTMifcaseregional
2066 {}% do nothing
2067 {\DTMsetstyle{en-IM}}%
2068 {\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.)

```

2069 \ifcsundef{date\CurrentTrackedDialect}
2070 {% do nothing
2071   \ifundef\dateenglish
2072   {%
2073   }%
2074   {%
2075     \def\dateenglish{%
2076       \DTMifcaseregional
2077       }% do nothing
2078       {\DTMsetstyle{en-IM}}%
2079       {\DTMsetstyle{en-IM-numeric}}%
2080     }%
2081   }%
2082 }%
2083 {%
2084   \csdef{date\CurrentTrackedDialect}{%
2085     \DTMifcaseregional
2086     }% do nothing
2087     {\DTMsetstyle{en-IM}}%
2088     {\DTMsetstyle{en-IM-numeric}}%
2089   }%
2090 }%

```

14.11 English (MT) Code (datetime2-en-MT.lfd)

This file contains the `en-MT` style.

Identify this module.

```
2091 \ProvidesDateTimeModule{en-MT}[2016/03/09 v1.04 (NLCT)]
```

Load base English module.

```
2092 \RequireDateTimeModule{english-base}
```

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

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

```
2093 \newcommand*{\DTMenMTdowdaysep}{\space}
```

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

```
2094 \newcommand*{\DTMenMTdaymonthsep}{\space}
```

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

```
2095 \newcommand*{\DTMenMTmonthyearsep}{\space}
```

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

```
2096 \newcommand*{\DTMenMTdatetimesep}{\space}
```

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

2097 `\newcommand*{\DTMenMTtimezonesep}{\space}`

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

2098 `\newcommand*{\DTMenMTdatesep}{/}`

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

2099 `\newcommand*{\DTMenMTtimesep}{:}`

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

2100 `\DTMdefkey{en-MT}{dowdaysep}{\renewcommand*{\DTMenMTdowdaysep}{#1}}`

2101 `\DTMdefkey{en-MT}{daymonthsep}{\renewcommand*{\DTMenMTdaymonthsep}{#1}}`

2102 `\DTMdefkey{en-MT}{monthyearsep}{\renewcommand*{\DTMenMTmonthyearsep}{#1}}`

2103 `\DTMdefkey{en-MT}{datetimesep}{\renewcommand*{\DTMenMTdatetimesep}{#1}}`

2104 `\DTMdefkey{en-MT}{timezonesep}{\renewcommand*{\DTMenMTtimezonesep}{#1}}`

2105 `\DTMdefkey{en-MT}{datesep}{\renewcommand*{\DTMenMTdatesep}{#1}}`

2106 `\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.

2107 `\DTMdefboolkey{en-MT}{abbr}[true]{}`

The default is the full name.

2108 `\DTMsetbool{en-MT}{abbr}{false}`

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

2109 `\DTMdefboolkey{en-MT}{mapzone}[true]{}`

The default is to use mappings.

2110 `\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.)

2111 `\DTMdefboolkey{en-MT}{showdayofmonth}[true]{}`

The default is to show the day of the month.

2112 `\DTMsetbool{en-MT}{showdayofmonth}{true}`

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

2113 `\DTMdefboolkey{en-MT}{showyear}[true]{}`

The default is to show the year.

2114 `\DTMsetbool{en-MT}{showyear}{true}`

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

2115 `\newcommand*{\DTMenMTfmtordsuffix}[1]{}`

Define a setting to change the ordinal suffix style.

```
2116 \DTMdefchoicekey{en-MT}{ord}[\val\nr]{level,raise,omit,sc}{%
2117 \ifcase\nr\relax
2118 \renewcommand*{\DTMenMTfmtordsuffix}[1]{##1}%
2119 \or
2120 \renewcommand*{\DTMenMTfmtordsuffix}[1]{%
2121 \DTMtexorpdfstring{\protect\textsuperscript{##1}}{##1}}%
2122 \or
2123 \renewcommand*{\DTMenMTfmtordsuffix}[1]{}%
2124 \or
2125 \renewcommand*{\DTMenMTfmtordsuffix}[1]{%
2126 \DTMtexorpdfstring{\protect\textsc{##1}}{##1}}%
2127 \fi
2128 }
```

Define the en-MT style.

```
2129 \DTMnewstyle
2130 {en-MT}% label
2131 {% date style
2132 \renewcommand*{\DTMenglishfmtordsuffix}{\DTMenMTfmtordsuffix}%
2133 \renewcommand*{\DTMdisplaydate}[4]{%
2134 \ifDTMshowdow
2135 \ifnum##4>-1%
2136 \DTMifbool{en-MT}{abbr}%
2137 {\DTMenglishshortweekdayname{##4}}%
2138 {\DTMenglishweekdayname{##4}}%
2139 \DTMenMTdowdaysep
2140 \fi
2141 \fi
2142 \DTMifbool{en-MT}{showdayofmonth}%
2143 {%
2144 \DTMenglishordinal{##3}%
2145 \DTMenMTdaymonthsep
2146 }%
2147 {}%
2148 \DTMifbool{en-MT}{abbr}%
2149 {\DTMenglishshortmonthname{##2}}%
2150 {\DTMenglishmonthname{##2}}%
2151 \DTMifbool{en-MT}{showyear}%
2152 {%
2153 \DTMenMTmonthyearsep\number##1 % space intended
2154 }%
2155 {}%
2156 }%
2157 \renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
2158 }%
2159 {% time style
2160 \renewcommand*{\DTMenglishtimesep}{\DTMenMTtimesep}%
2161 \DTMsettimestyle{englishampm}%
2162 }%
```

```

2163 {% zone style
2164   \DTMresetzones
2165   \DTMenMTzonemaps
2166   \renewcommand*\DTMdisplayzone}[2]{%
2167     \DTMifbool{en-MT}{mapzone}%
2168     {\DTMuseumaportdefault{##1}{##2}}%
2169     {%
2170       \ifnum##1<0\else+\fi\DTMtwdigits{##1}%
2171       \ifDTMshowzoneminutes\DTMenMTtimesep\DTMtwdigits{##2}\fi
2172     }%
2173   }%
2174 }%
2175 {% full style
2176   \renewcommand*\DTMdisplay}[9]{%
2177     \ifDTMshowdate
2178     \DTMdisplaydate{##1}{##2}{##3}{##4}%
2179     \DTMenMTdatetimesep
2180     \fi
2181     \DTMdisplaytime{##5}{##6}{##7}%
2182     \ifDTMshowzone
2183     \DTMenMTtimezonesep
2184     \DTMdisplayzone{##8}{##9}%
2185     \fi
2186   }%
2187   \renewcommand*\DTMDisplay}{\DTMdisplay}%
2188 }%

```

Define numeric style.

```

2189 \DTMnewstyle
2190 {en-MT-numeric}% label
2191 {% date style
2192   \renewcommand*\DTMdisplaydate[4]{%
2193     \DTMifbool{en-MT}{showdayofmonth}%
2194     {%
2195       \number##3 % space intended
2196       \DTMenMTdatesep
2197     }%
2198     }%
2199     \number##2 % space intended
2200     \DTMifbool{en-MT}{showyear}%
2201     {%
2202       \DTMenMTdatesep
2203       \number##1 % space intended
2204     }%
2205     }%
2206   }%
2207   \renewcommand*\DTMDisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
2208 }%
2209 {% time style
2210   \renewcommand*\DTMdisplaytime[3]{%

```

```

2211     \number##1
2212     \DTMenMTtimesep\DTMtwodigits{##2}%
2213     \ifDTMshowseconds\DTMenMTtimesep\DTMtwodigits{##3}\fi
2214   }%
2215 }%
2216 {% zone style
2217   \DTMresetzones
2218   \DTMenMTzonemaps
2219   \renewcommand*\DTMdisplayzone}[2]{%
2220     \DTMifbool{en-MT}{mapzone}%
2221     {\DTMusedzonemapordefault{##1}{##2}}%
2222     {%
2223       \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
2224       \ifDTMshowzoneminutes\DTMenMTtimesep\DTMtwodigits{##2}\fi
2225     }%
2226   }%
2227 }%
2228 {% full style
2229   \renewcommand*\DTMdisplay}[9]{%
2230     \ifDTMshowdate
2231       \DTMdisplaydate{##1}{##2}{##3}{##4}%
2232       \DTMenMTdatetimesep
2233       \fi
2234       \DTMdisplaytime{##5}{##6}{##7}%
2235       \ifDTMshowzone
2236         \DTMenMTtimezonesep
2237         \DTMdisplayzone{##8}{##9}%
2238       \fi
2239     }%
2240   \renewcommand*\DTMDisplay}{\DTMdisplay}%
2241 }

```

`\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.

```

2242 \newcommand*\DTMenMTzonemaps){%
2243   \DTMdefzonemap{02}{00}{CEST}%
2244   \DTMdefzonemap{01}{00}{CET}%
2245 }

```

Switch style according to the `useregional` setting.

```

2246 \DTMifcaseregional
2247 {}% do nothing
2248 {\DTMsetstyle{en-MT}}%
2249 {\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.)

```

2250 \ifcsundef{date\CurrentTrackedDialect}
2251 {}% do nothing
2252 \ifundef\dateenglish

```

```

2253 {%
2254 }%
2255 {%
2256   \def\dateenglish{%
2257     \DTMifcaseregional
2258     }% do nothing
2259     {\DTMsetstyle{en-MT}}%
2260     {\DTMsetstyle{en-MT-numeric}}%
2261   }%
2262 }%
2263 }%
2264 {%
2265   \csdef{date\CurrentTrackedDialect}{%
2266     \DTMifcaseregional
2267     }% do nothing
2268     {\DTMsetstyle{en-MT}}%
2269     {\DTMsetstyle{en-MT-numeric}}%
2270   }%
2271 }%

```

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

This file contains the en-IE style.

Identify this module.

```
2272 \ProvidesDateTimeModule{en-IE}[2016/03/09 v1.04 (NLCT)]
```

Load base English module.

```
2273 \RequireDateTimeModule{english-base}
```

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

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

```
2274 \newcommand*{\DTMenIEdowdaysep}{\space}
```

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

```
2275 \newcommand*{\DTMenIEdaymonthsep}{\space}
```

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

```
2276 \newcommand*{\DTMenIEmonthyearsep}{\space}
```

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

```
2277 \newcommand*{\DTMenIEdatetimesep}{\space}
```

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

```
2278 \newcommand*{\DTMenIetimezonesep}{\space}
```


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

```
2279 \newcommand*\DTMenIEDatesep{/}
```

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

```
2280 \newcommand*\DTMenIETimesep{:}
```

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

```
2281 \DTMdefkey{en-IE}{dowdaysep}{\renewcommand*\DTMenIEDowdaysep{#1}}
```

```
2282 \DTMdefkey{en-IE}{daymonthsep}{\renewcommand*\DTMenIEDaymonthsep{#1}}
```

```
2283 \DTMdefkey{en-IE}{monthyearsep}{\renewcommand*\DTMenIEmonthyearsep{#1}}
```

```
2284 \DTMdefkey{en-IE}{datetimesep}{\renewcommand*\DTMenIEDatetimesep{#1}}
```

```
2285 \DTMdefkey{en-IE}{timezonesep}{\renewcommand*\DTMenIETimezonesep{#1}}
```

```
2286 \DTMdefkey{en-IE}{datesep}{\renewcommand*\DTMenIEDatesep{#1}}
```

```
2287 \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.

```
2288 \DTMdefboolkey{en-IE}{abbr}[true]{}
```

The default is the full name.

```
2289 \DTMsetbool{en-IE}{abbr}{false}
```

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

```
2290 \DTMdefboolkey{en-IE}{mapzone}[true]{}
```

The default is to use mappings.

```
2291 \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.)

```
2292 \DTMdefboolkey{en-IE}{showdayofmonth}[true]{}
```

The default is to show the day of the month.

```
2293 \DTMsetbool{en-IE}{showdayofmonth}{true}
```

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

```
2294 \DTMdefboolkey{en-IE}{showyear}[true]{}
```

The default is to show the year.

```
2295 \DTMsetbool{en-IE}{showyear}{true}
```

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

```
2296 \newcommand*\DTMenIEfmtordsuffix[1]{#1}
```

Define a setting to change the ordinal suffix style.

```
2297 \DTMdefchoicekey{en-IE}{ord}[\val\nr]{level,raise,omit,sc}{%
```

```
2298 \ifcase\nr\relax
```

```
2299 \renewcommand*\DTMenIEfmtordsuffix[1]{##1}%
```

```
2300 \or
```

```
2301 \renewcommand*\DTMenIEfmtordsuffix[1]{%
```

```

2302 \DTMtexorpdfstring{\protect\textsuperscript{##1}}{##1}}%
2303 \or
2304 \renewcommand*{\DTMenIEfmtordsuffix}[1]{}%
2305 \or
2306 \renewcommand*{\DTMenIEfmtordsuffix}[1]{%
2307 \DTMtexorpdfstring{\protect\textsc{##1}}{##1}}%
2308 \fi
2309 }

Define the en-IE style.

2310 \DTMnewstyle
2311 {en-IE}% label
2312 {% date style
2313 \renewcommand*{\DTMenglishfmtordsuffix}{\DTMenIEfmtordsuffix}%
2314 \renewcommand*{\DTMdisplaydate}[4]{%
2315 \ifDTMshowdow
2316 \ifnum##4>-1%
2317 \DTMifbool{en-IE}{abbr}%
2318 {\DTMenglishshortweekdayname{##4}}%
2319 {\DTMenglishweekdayname{##4}}%
2320 \DTMenIEdowdaysep
2321 \fi
2322 \fi
2323 \DTMifbool{en-IE}{showdayofmonth}%
2324 {%
2325 \DTMenglishordinal{##3}%
2326 \DTMenIEdaymonthsep
2327 }%
2328 {}%
2329 \DTMifbool{en-IE}{abbr}%
2330 {\DTMenglishshortmonthname{##2}}%
2331 {\DTMenglishmonthname{##2}}%
2332 \DTMifbool{en-IE}{showyear}%
2333 {%
2334 \DTMenIEmonthyearsep\number##1 % space intended
2335 }%
2336 {}%
2337 }%
2338 \renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
2339 }%
2340 {% time style
2341 \renewcommand*{\DTMenglishtimesep}{\DTMenIetimesep}%
2342 \DTMsettimestyle{englishamp}%
2343 }%
2344 {% zone style
2345 \DTMresetzones
2346 \DTMenIEzonemaps
2347 \renewcommand*{\DTMdisplayzone}[2]{%
2348 \DTMifbool{en-IE}{mapzone}%
2349 {\DTMusedzonemapordefault{##1}{##2}}%

```

```

2350     {%
2351     \ifnum##1<0\else+\fi\DTMtwdigits{##1}%
2352     \ifDTMshowzoneminutes\DTMenIetimesep\DTMtwdigits{##2}\fi
2353     }%
2354 }%
2355 }%
2356 {% full style
2357 \renewcommand*\DTMdisplay}[9]{%
2358 \ifDTMshowdate
2359 \DTMdisplaydate{##1}-{##2}-{##3}-{##4}%
2360 \DTMenIEdatetimesep
2361 \fi
2362 \DTMdisplaytime{##5}-{##6}-{##7}%
2363 \ifDTMshowzone
2364 \DTMenIetimezonesep
2365 \DTMdisplayzone{##8}-{##9}%
2366 \fi
2367 }%
2368 \renewcommand*\DTMDisplay}{\DTMdisplay}%
2369 }%

```

Define numeric style.

```

2370 \DTMnewstyle
2371 {en-IE-numeric}% label
2372 {% date style
2373 \renewcommand*\DTMdisplaydate[4]{%
2374 \DTMifbool{en-IE}{showdayofmonth}%
2375 {%
2376 \number##3 % space intended
2377 \DTMenIEdatesep
2378 }%
2379 }%
2380 \number##2 % space intended
2381 \DTMifbool{en-IE}{showyear}%
2382 {%
2383 \DTMenIEdatesep
2384 \number##1 % space intended
2385 }%
2386 }%
2387 }%
2388 \renewcommand*\DTMDisplaydate[4]{\DTMdisplaydate{##1}-{##2}-{##3}-{##4}}%
2389 }%
2390 {% time style
2391 \renewcommand*\DTMdisplaytime[3]{%
2392 \number##1
2393 \DTMenIetimesep\DTMtwdigits{##2}%
2394 \ifDTMshowseconds\DTMenIetimesep\DTMtwdigits{##3}\fi
2395 }%
2396 }%
2397 {% zone style

```

```

2398 \DTMresetzones
2399 \DTMenIEzonemaps
2400 \renewcommand*{\DTMdisplayzone}[2]{%
2401   \DTMifbool{en-IE}{mapzone}%
2402   {\DTMuseumaportdefault{##1}{##2}}%
2403   {%
2404     \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
2405     \ifDTMshowzoneminutes\DTMenIetimesep\DTMtwodigits{##2}\fi
2406   }%
2407 }%
2408 }%
2409 {% full style
2410 \renewcommand*{\DTMdisplay}[9]{%
2411   \ifDTMshowdate
2412     \DTMdisplaydate{##1}{##2}{##3}{##4}%
2413     \DTMenIEdatetimesep
2414     \fi
2415     \DTMdisplaytime{##5}{##6}{##7}%
2416     \ifDTMshowzone
2417       \DTMenIetimesep
2418       \DTMdisplayzone{##8}{##9}%
2419     \fi
2420   }%
2421 \renewcommand*{\DTMdisplay}{\DTMdisplay}%
2422 }

```

`\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.

```

2423 \newcommand*{\DTMenIEzonemaps}{%
2424   \DTMdefzonemap{00}{00}{GMT}%
2425   \DTMdefzonemap{01}{00}{IST}%
2426 }

```

Switch style according to the `useregional` setting.

```

2427 \DTMifcaseregional
2428 {}% do nothing
2429 {\DTMsetstyle{en-IE}}%
2430 {\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.)

```

2431 \ifcsundef{date\CurrentTrackedDialect}
2432 {% do nothing
2433   \ifundef\dateenglish
2434   {%
2435   }%
2436   {%
2437     \def\dateenglish{%
2438       \DTMifcaseregional
2439       }% do nothing

```

```
2440     {\DTMsetstyle{en-IE}}%
2441     {\DTMsetstyle{en-IE-numeric}}%
2442   }%
2443 }%
2444 }%
2445 {%
2446 \csdef{date\CurrentTrackedDialect}{%
2447   \DTMifcaseregional
2448   }% do nothing
2449   {\DTMsetstyle{en-IE}}%
2450   {\DTMsetstyle{en-IE-numeric}}%
2451   }%
2452 }%
```

Change History

1.0	General: Initial release . . . 12, 17, 19, 24, 32, 40, 47, 52, 57, 62, 67, 72	\DTMenCAcentralzonemaps: new . . . 39	\DTMenCAadstzonemaps: new 38
1.01	General: fixed misspelt style name . . . 22	\DTMenCAeasternzonemaps: new . . . 39	\DTMenCAmountainzonemaps: new . . . 39
1.02	General: added support for show- down option 27	\DTMenCAnewfoundlandzonemaps: new 38	\DTMenCAPacificzonemaps: new . . . 39
	\DTMenCAdownmonthsep: new 32	\DTMenCAstdzonemaps: new 38	\DTMenUSalaskazonemaps: new . . . 31
	\DTMenUSdownmonthsep: new 24	\DTMenUSatlanticzonemaps: new . . . 30	\DTMenUScentralzonemaps: new . . . 31
1.03	General: added zone option to en- AU 41	\DTMenUSchamorrozonemaps: new . . . 31	\DTMenUSdstzonemaps: new 30
	added zone option to en-CA . . . 34	\DTMenUSeasternzonemaps: new . . . 31	\DTMenUShawaiialeutianzonemaps: new 31
	added zone option to en-US . . . 26	\DTMenUSmountainzonemaps: new . . . 31	\DTMenUSpacificzonemaps: new . . . 31
	fixed bug that displayed am in- stead of pm 17	\DTMenUSSamoazonemaps: new . . . 31	\DTMenUSstdzonemaps: new 30
	\DTMenAUcentralwesternzonemaps: new 46		
	\DTMenAUcentralzonemaps: new . . . 46	1.04	\DTMenAUdowdaysep: new 40
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	\DTMenAUCocoszonemaps: new . . . 47		\DTMenGGdowdaysep: new 53
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