# Latin Module for datetime2 Package

Nicola L. C. Talbot (inactive)

2018-05-18 (v1.1)

This module is currently unmaintained and may be subject to change. If you want to volunteer to take over maintanance, contact me at http://www.dickimaw-books.com/contact.html

**Abstract**

This is the Latin language module for the datetime2 package. If you want to use the settings in this module you must install it in addition to installing datetime2. If you use babel or polyglossia, you will need this module to prevent them from redefining `\today`. The datetime2 `useregional` setting must be set to `text` or `numeric` for the language styles to be set. Alternatively, you can set the style in the document using `\DTMsetstyle`, but this may be changed by `\date`⟨*language*⟩ depending on the value of the `useregional` setting.

I've copied the date style from `babel-latin`'s `\today`. This is different from polyglossia's Latin `\today` so there's a check to see if polyglossia has been loaded to make the styles match.

I don't know if these settings are correct. In particular, I don't know if the `latin` time style is correct. Currently this just uses the `default` time style. Please be aware that this may change. Whoever takes over maintanance of this module may can change it as appropriate.

The new maintainer should add the line:

```
The Current Maintainer of this work is Name.
```

to the preamble part in `datetime2-latin.ins` where Name is the name of the maintainer(s) and replace the 'inactive' status to 'maintained'.

Currently there is only a regionless style.

## 1 The Code

At the moment there is only the one `.ldf` file.

## 1.1 Main Latin Module (datetime2-latin.ldf)

Identify Module

```
\ProvidesDateTimeModule{latin}[2018/05/18 v1.1]
```

\DTMlatindatefont

polyglossia version doesn't implement a font change.

```
\@ifpackageloaded{polyglossia}
{
  \newcommand*{\DTMlatindayfont}[1]{#1}
}
{
```

This will need protecting.

```
  \newcommand*{\DTMlatindayfont}[1]{%
    {\check@mathfonts\fontsize\sf@size\z@\math@fontsfalse\selectfont#1}%
  }
}
```

\DTMlatinordinal

```
\newcommand*{\DTMlatinordinal}[1]{%
  \DTMtexorpdfstring
  {%
    \protect\DTMlatindayfont{\uppercase\expandafter{\romannumeral#1}}%
  }%
  {\romannumeral#1 }%
}
```

\DTMlatinyear

```
\newcommand*{\DTMlatinyear}[1]{%
  \DTMtexorpdfstring
  {%
    \uppercase\expandafter{\romannumeral#1}%
  }%
  {\romannumeral#1 }%
}
```

\DTMlatinmonthname

Latin month names.

```
\@ifpackageloaded{polyglossia}
{
```

Match polyglossia month names:

```
  \newcommand*{\DTMlatinmonthname}[1]{%
    \ifcase#1
    \or
    Januarii%
    \or
    Februarii%
    \or
    Martii%
    \or
```

```
    Aprilis%
    \or
    Maji%
    \or
    Junii%
    \or
    Julii%
    \or
    Augusti%
    \or
    Septembris%
    \or
    Octobris%
    \or
    Novembris%
    \or
    Decembris%
    \fi
  }
}
{
```

Match babel month names:

```
  \newcommand*{\DTMlatinmonthname}[1]{%
    \ifcase#1
    \or
    Ianuarii%
    \or
    Februarii%
    \or
    Martii%
    \or
    Aprilis%
    \or
    Maii%
    \or
    Iunii%
    \or
    Iulii%
    \or
    Augusti%
    \or
    Septembris%
    \or
    Octobris%
    \or
    Novembris%
    \or
    Decembris%
    \fi
```

```
  }
}
```

Define the `latin` style. The time style is the same as the `default` style provided by datetime2. This may need correcting.

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

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

```
\newcommand*{\DTMlatindaymonthsep}{\space}
```

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

```
\newcommand*{\DTMlatinmonthyearsep}{\space}
```

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

```
\newcommand*{\DTMlatindatetimesep}{\space}
```

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

```
\newcommand*{\DTMlatintimezonesep}{\space}
```

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

```
\newcommand*{\DTMlatindatesep}{/}
```

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

```
\newcommand*{\DTMlatintimesep}{:}
```

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

```
\DTMdefkey{latin}{daymonthsep}{\renewcommand*{\DTMlatindaymonthsep}{#1}}
\DTMdefkey{latin}{monthyearsep}{\renewcommand*{\DTMlatinmonthyearsep}{#1}}
\DTMdefkey{latin}{datetimesep}{\renewcommand*{\DTMlatindatetimesep}{#1}}
\DTMdefkey{latin}{timezonesep}{\renewcommand*{\DTMlatintimezonesep}{#1}}
\DTMdefkey{latin}{datesep}{\renewcommand*{\DTMlatindatesep}{#1}}
\DTMdefkey{latin}{timesep}{\renewcommand*{\DTMlatintimesep}{#1}}
```

TODO: provide a boolean key to switch between full and abbreviated formats if appropriate. (I don't know how the date should be abbreviated.)

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

```
\DTMdefboolkey{latin}{mapzone}[true]{}
```

The default is to use mappings.

```
\DTMsetbool{latin}{mapzone}{true}
```

Define a boolean key that determines if the day of month should be displayed.

```
\DTMdefboolkey{latin}{showdayofmonth}[true]{}
```

The default is to show the day of month.

```
\DTMsetbool{latin}{showdayofmonth}{true}
```

Define a boolean key that determines if the year should be displayed.

```
\DTMdefboolkey{latin}{showyear}[true]{}
```

The default is to show the year.

```
\DTMsetbool{latin}{showyear}{true}
```

Define the `latin` style. (TODO: implement day of week?)

```
\DTMnewstyle
 {latin}% label
 {% date style
   \renewcommand*\DTMdisplaydate[4]{%
     \DTMifbool{latin}{showdayofmonth}
     {\DTMlatinordinal{##3}\DTMlatindaymonthsep}%
     {}%
     \DTMlatinmonthname{##2}%
     \DTMifbool{latin}{showyear}%
     {%
       \DTMlatinmonthyearsep
       \DTMlatinyear{##1}%
     }%
     {}%
   }%
   \renewcommand*\DTMDisplaydate{\DTMdisplaydate}%
 }%
 {% time style (use default)
   \DTMsettimestyle{default}%
 }%
 {% zone style
   \DTMresetzones
   \DTMlatinzonemaps
   \renewcommand*{\DTMdisplayzone}[2]{%
     \DTMifbool{latin}{mapzone}%
     {\DTMusezonemapordefault{##1}{##2}}%
     {%
       \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
       \ifDTMshowzoneminutes\DTMlatintimesep\DTMtwodigits{##2}\fi
     }%
   }%
 }%
 {% full style
   \renewcommand*{\DTMdisplay}[9]{%
    \ifDTMshowdate
     \DTMdisplaydate{##1}{##2}{##3}{##4}%
     \DTMlatindatetimesep
    \fi
    \DTMdisplaytime{##5}{##6}{##7}%
    \ifDTMshowzone
     \DTMlatintimezonesep
```

```
    \DTMdisplayzone{##8}{##9}%
   \fi
  }%
  \renewcommand*{\DTMDisplay}{\DTMdisplay}%
}%
```

Define numeric style.

```
\DTMnewstyle
{latin-numeric}% label
{% date style
   \renewcommand*\DTMdisplaydate[4]{%
     \DTMifbool{latin}{showdayofmonth}%
     {%
       \number##3 % space intended
       \DTMlatindatesep
     }%
     {}%
     \number##2 % space intended
     \DTMifbool{latin}{showyear}%
     {%
       \DTMlatindatesep
       \number##1 % space intended
     }%
     {}%
   }%
   \renewcommand*{\DTMDisplaydate}{\DTMdisplaydate}%
}%
{% time style
   \renewcommand*\DTMdisplaytime[3]{%
     \number##1
     \DTMlatintimesep\DTMtwodigits{##2}%
     \ifDTMshowseconds\DTMlatintimesep\DTMtwodigits{##3}\fi
   }%
}%
{% zone style
  \DTMresetzones
  \DTMlatinzonemaps
  \renewcommand*{\DTMdisplayzone}[2]{%
    \DTMifbool{latin}{mapzone}%
    {\DTMusezonemapordefault{##1}{##2}}%
    {%
      \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
      \ifDTMshowzoneminutes\DTMlatintimesep\DTMtwodigits{##2}\fi
    }%
  }%
}%
{% full style
  \renewcommand*{\DTMdisplay}[9]{%
   \ifDTMshowdate
    \DTMdisplaydate{##1}{##2}{##3}{##4}%
```

```
     \DTMlatindatetimesep
    \fi
    \DTMdisplaytime{##5}{##6}{##7}%
    \ifDTMshowzone
     \DTMlatintimezonesep
     \DTMdisplayzone{##8}{##9}%
    \fi
   }%
   \renewcommand*{\DTMDisplay}{\DTMdisplay}%
 }
```

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

```
\newcommand*{\DTMlatinzonemaps}{%
}
```

Switch style according to the `useregional` setting.

```
\DTMifcaseregional
{}% do nothing
{\DTMsetstyle{latin}}
{\DTMsetstyle{latin-numeric}}
```

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

```
\ifcsundef{date\CurrentTrackedDialect}
{%
  \ifundef\datelatin
  {% do nothing
  }%
  {%
    \def\datelatin{%
      \DTMifcaseregional
      {}% do nothing
      {\DTMsetstyle{latin}}%
      {\DTMsetstyle{latin-numeric}}%
    }%
  }%
}%
{%
  \csdef{date\CurrentTrackedDialect}{%
    \DTMifcaseregional
    {}% do nothing
    {\DTMsetstyle{latin}}%
    {\DTMsetstyle{latin-numeric}}%
  }%
}%
```

# Change History



# Index