German Module for the datetime2 Package

https://github.com/SFr682k/datetime2-german

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Abstract

This is the German 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.

Currently there is a regionless style as well as variant styles (de-DE, de-AT and de-CH).

I'm only capable of German standard German. If I messed up anything in regards to format and/or spelling, or even a variant style with differences to the existing ones is missing, please create a feature request on GitHub or send me an e–mail.
I would be very grateful, if some examples and/or a list of the weekdays' and months' spelling is/are also provided.

Contents

1 Installation

Extract the language definition files first:

1. Run LaTeX over the file `datetime2-german.ins`:
   `latex datetime2-german.ins`
2. Move all `*.ldf` files to `TEXMF/tex/latex/datetime2-contrib/datetime2-german/`

Then, you can compile the documentation yourself by executing

```
pdflatex datetime2-german.dtx
makeindex -s gind.ist datetime2-german.idx
makeindex -s gglo.ist -o datetime2-german.gls datetime2-german.glo
pdflatex datetime2-german.dtx
pdflatex datetime2-german.dtx
```

or just use the precompiled documentation shipped with the sorce files.
In both cases, copy the files `datetime2-german.pdf` and `README.md` to
`TEXMF/doc/latex/datetime2-contrib/datetime2-german/`

File I
The Documentation

2 Setting up datetime2 with a language module

2.1 Loading a language module

There are three different ways to load the required language module. See the datetime2 documentation for further details

Variant 1:
Request the desired language module explicitly by passing the `german`, `de-DE`, `de-AT` or `de-CH` option to the datetime2 package:

```
\documentclass{article}
\usepackage[german]{datetime2}
\begin{document}
\today
\end{document}
```

Variant 2:
Load babel and pass the `german`, `austrian` or `swissgerman` option to the `\documentclass` command (or to babel directly). If you now pass the `useregional` option to datetime2, the language module suitable to the one specified with babel is loaded:

```
\documentclass[german]{article}
\usepackage{babel}
\usepackage[useregional]{datetime2}
\begin{document}
\today
\end{document}
```

Variant 3:
When using polyglossia, you should request the desired language module by passing the `german`, `de-DE`, `de-AT` or `de-CH` option to the datetime2 package:

```
\documentclass{article}
\usepackage{polyglossia}
\setmainlanguage{german}
\usepackage[german]{datetime2}
\begin{document}
\today
\end{document}
```

2.2 Other features

2.2.1 Showing the weekday

All language modules shipped with datetime2-german support showing the weekday.
To enable this feature, pass the `showdow` option to the datetime2 package.
Please note, that this has no effect when using the `numeric` style of the `de-AT` variant.

2.2.2 Using abbreviated weekday and month names

To enable abbreviated weekday and month names, use `\DTMlangsetup[german]{abbr}`.
To disable them, use `\DTMlangsetup[german]{abbr=false}`.

In both cases, replace `german` with the used variant style (`de-DE`, `de-AT` or `de-CH`).
Please note, that this has no effect when using the `numeric` style of the `de-AT` variant.

3 Style examples

3.1 Regionless style

- Non–numeric style:
  3. Oktober 2017, 12:51:04 MESZ
  3. Okt. ’17, 12:51:04 MESZ *abbreviated version*
  Dienstag, 3. Oktober 2017, 12:51:04 MESZ *with* showdow *option*
  Di, 3. Okt. ’17, 12:51:04 MESZ *abbreviated version with* showdow *option*

- Numeric style:
  03.10.2017, 12:51:04 MESZ
  03.10.17, 12:51:04 MESZ *abbreviated version*
  Dienstag, 03.10.2017, 12:51:04 MESZ *with* showdow *option*
  Di, 03.10.17, 12:51:04 MESZ *abbreviated version with* showdow *option*

3.2 German style (`de-DE`)

- Non–numeric style:
  3. Oktober 2017, 12:51:04 MESZ
  3. Okt. ’17, 12:51:04 MESZ *abbreviated version*
  Dienstag, 3. Oktober 2017, 12:51:04 MESZ *with* showdow *option*
  Di, 3. Okt. ’17, 12:51:04 MESZ *abbreviated version with* showdow *option*

- Numeric style:
  03.10.2017, 12:51:04 MESZ
  03.10.17, 12:51:04 MESZ *abbreviated version*
  Dienstag, 03.10.2017, 12:51:04 MESZ *with* showdow *option*
  Di, 03.10.17, 12:51:04 MESZ *abbreviated version with* showdow *option*

3.3 Austrian style (`de-AT`)

- Non–numeric style:
  3. Oktober 2017, 12:51:04 MESZ
  3. Okt. 2017, 12:51:04 MESZ *abbreviated version*
  Dienstag, 3. Oktober 2017, 12:51:04 MESZ *with* showdow *option*
  Di, 3. Okt. 2017, 12:51:04 MESZ *abbreviated version with* showdow *option*

- Numeric style:
  2017-10-03, 12:51:04 MESZ

3.4 Swiss style (`de-CH`)

- Non–numeric style:
  3. Oktober 2017, 12.51.04 Uhr MESZ

3. Okt. 2017, 12.51.04 Uhr MESZ — *abbreviated version*
Dienstag, 3. Oktober 2017, 12.51.04 Uhr MESZ — *with* showdow *option*
Di, 3. Okt. 2017, 12.51.04 Uhr MESZ — *abbreviated version with* showdow *option*

- Numeric style:
  03.10.2017, 12.51.04 Uhr MESZ
  03.10.17, 12.51.04 Uhr MESZ — *abbreviated version*
  Dienstag, 03.10.2017, 12.51.04 Uhr MESZ — *with* showdow *option*
  Di, 03.10.17, 12.51.04 Uhr MESZ — *abbreviated version with* showdow *option*

4 Further customization of styles

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.

`daymonthsep` The separator between the day and the month name

`monthyearsep` The separator between the month name and year

`datesep` The separator between the date numbers in the `numeric styles`

`timesep` The separator between hours, minutes and seconds

`datetimesep` The separator between the date and time for the full date-time format

`timezonesep` The separator between the time and zone for the full date-time format

`abbr` This is a boolean key. If `true`, the month (and weekday name, if shown) is abbreviated.

`mapzone` This is a boolean key. If `true`, the time zone mappings are applied.

`showdayofmonth` A boolean key that determines whether or not to show the day of the month

`showyear` A boolean key that determines whether or not to show the year

Although the keys listed here are *defined* for all variant styles, it depends on datetime2's setup and the requested styles whether they're *used*.
For more information about the `\DTMlangsetup` command see the documentation of the main datetime2 package.

5 License

File II
The Code

6 Basic German module

This module defines the “basic” German style, which contains the necessary vocab for all German localizations.
The date and time format is based on the `de-DE` variant.

6.1 Weekday and month names (UTF-8)

This file contains the settings that use UTF-8 characters. This file is loaded if XeLaTeX or LuaLaTeX are used. Please make sure your text editor is set to UTF-8 if you want to view this code.
Identify module

```
\ProvidesDateTimeModule{german-utf8}[2017/10/03 v2.0]
```

`\DTMgermanordinal`

```
\newcommand*{\DTMgermanordinal}[1]{%
  \number#1
}
```

`\DTMgermanmonthname` German month names.

```
\newcommand*{\DTMgermanmonthname}[1]{%
  \ifcase#1
  \or
  Januar%
  \or
  Februar%
  \or
  März%
  \or
  April%
  \or
  Mai%
  \or
  Juni%
  \or
  Juli%
  \or
  August%
  \or
  September%
  \or
  Oktober%
  \or
  November%
  \or
  Dezember%
  \fi
}
```

`\DTMdeATmonthname` Austrian German month names. Spot the difference :D

```
\newcommand*{\DTMdeATmonthname}[1]{%
```

```
  \ifcase#1
  \or
  Jänner%
  \or
  Februar%
  \or
  März%
  \or
  April%
  \or
  Mai%
  \or
  Juni%
  \or
  Juli%
  \or
  August%
  \or
  September%
  \or
  Oktober%
  \or
  November%
  \or
  Dezember%
  \fi
}
```

\DTMgermanshortmonthname Abbreviated German month names.

```
\newcommand*{\DTMgermanshortmonthname}[1]{%
  \ifcase#1
  \or
  Jan.%
  \or
  Febr.%
  \or
  März%
  \or
  April%
  \or
  Mai%
  \or
  Juni%
  \or
  Juli%
  \or
  Aug.%
  \or
  Sep.%
  \or
  Okt.%
  \or
  Nov.%
  \or
  Dez.%
  \fi
}
```

\DTMdeATshortmonthname Abbreviated Austrian German month names.

```
\newcommand*{\DTMdeATshortmonthname}[1]{%
  \ifcase#1
  \or
  Jän.%
  \or
  Febr.%
  \or
  März%
  \or
  April%
  \or
  Mai%
  \or
  Juni%
  \or
  Juli%
  \or
  Aug.%
  \or
  Sep.%
  \or
  Okt.%
  \or
  Nov.%
  \or
  Dez.%
  \fi
}
```

\DTMgermanweekdayname Provides weekday names

```
\newcommand*{\DTMgermanweekdayname}[1]{%
  \ifcase#1
  Montag%
  \or
  Dienstag%
  \or
  Mittwoch%
  \or
  Donnerstag%
  \or
  Freitag%
  \or
  Samstag%
  \or
  Sonntag%
  \fi
}
```

\DTMgermanshortweekdayname Provides abbreviated weekday names

```
\newcommand*{\DTMgermanshortweekdayname}[1]{%
  \ifcase#1
  Mo%
  \or
  Di%
  \or
```

```
  Mi%
  \or
  Do%
  \or
  Fr%
  \or
  Sa%
  \or
  So%
  \fi
}
```

6.2 Weekday and month names (ASCII)

This file contains the settings that use LaTeX commands for non-ASCII characters. This should be input if neither XeLaTeX nor LuaLaTeX are used. Even if the user has loaded inputenc with `utf8`, this file should still be used not the `datetime2-german-utf8.ldf` file as the non-ASCII characters are made active in that situation and would need protecting against expansion.
Identify module

```
\ProvidesDateTimeModule{german-ascii}[2017/10/03 v2.0]
```

`\DTMgermanordinal`

```
\newcommand*{\DTMgermanordinal}[1]{%
  \number#1
}
```

`\DTMgermanmonthname` German month names.

```
\newcommand*{\DTMgermanmonthname}[1]{%
  \ifcase#1
  \or
  Januar%
  \or
  Februar%
  \or
  M\protect\"arz%
  \or
  April%
  \or
  Mai%
  \or
  Juni%
  \or
  Juli%
  \or
  August%
  \or
  September%
  \or
  Oktober%
  \or
  November%
  \or
  Dezember%
  \fi
}
```

\DTMdeATmonthname Austrian German month names.

```
\newcommand*{\DTMdeATmonthname}[1]{%
  \ifcase#1
  \or
  J\protect\"anner%
  \or
  Februar%
  \or
  M\protect\"arz%
  \or
  April%
  \or
  Mai%
  \or
  Juni%
  \or
  Juli%
  \or
  August%
  \or
  September%
  \or
  Oktober%
  \or
  November%
  \or
  Dezember%
  \fi
}
```

\DTMgermanshortmonthname Abbreviated German month names.

```
\newcommand*{\DTMgermanshortmonthname}[1]{%
  \ifcase#1
  \or
  Jan.%
  \or
  Febr.%
  \or
  M\protect\"arz%
  \or
  April%
  \or
  Mai%
  \or
  Juni%
  \or
  Juli%
  \or
  Aug.%
  \or
  Sep.%
  \or
  Okt.%
  \or
  Nov.%
  \or
```

```
  Dez.%
  \fi
}
```

\DTMdeATshortmonthname Abbreviated Austrian German month names.

```
\newcommand*{\DTMdeATshortmonthname}[1]{%
  \ifcase#1
  \or
  J\protect\"n.%
  \or
  Febr.%
  \or
  M\protect\"arz%
  \or
  April%
  \or
  Mai%
  \or
  Juni%
  \or
  Juli%
  \or
  Aug.%
  \or
  Sep.%
  \or
  Okt.%
  \or
  Nov.%
  \or
  Dez.%
  \fi
}
```

\DTMgermanweekdayname Provides weekday names

```
\newcommand*{\DTMgermanweekdayname}[1]{%
  \ifcase#1
  Montag%
  \or
  Dienstag%
  \or
  Mittwoch%
  \or
  Donnerstag%
  \or
  Freitag%
  \or
  Samstag%
  \or
  Sonntag%
  \fi
}
```

\DTMgermanshortweekdayname Provides abbreviated weekday names

```
\newcommand*{\DTMgermanshortweekdayname}[1]{%
  \ifcase#1
```

```
  Mo%
  \or
  Di%
  \or
  Mi%
  \or
  Do%
  \or
  Fr%
  \or
  Sa%
  \or
  So%
  \fi
}
```

6.3 Basic German Module (`datetime2-german.ldf`)

Identify Module

```
\ProvidesDateTimeModule{german}[2017/10/03 v2.0]
```

Need to find out if XeTeX or LuaTeX are being used.

```
\RequirePackage{ifxetex,ifluatex}
```

XeTeX and LuaTeX natively support UTF-8, so load `german-utf8` if either of those engines are used otherwise load `german-ascii`.

```
\ifxetex
 \RequireDateTimeModule{german-utf8}
\else
 \ifluatex
   \RequireDateTimeModule{german-utf8}
 \else
   \RequireDateTimeModule{german-ascii}
 \fi
\fi
```

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

`\DTMgermandowdaysep` The separator between weekday and day

```
\newcommand*{\DTMgermandowdaysep}{,\space}
```

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

```
\newcommand*{\DTMgermandaymonthsep}{.\DTMtexorpdfstring{\protect~}{\space}}
```

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

```
\newcommand*{\DTMgermanmonthyearsep}{\space}
```

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

```
\newcommand*{\DTMgermandatetimesep}{,\space}
```

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

```
\newcommand*{\DTMgermantimezonesep}{\space}
```

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

```
\newcommand*{\DTMgermandatesep}{.}
```

\DTMgermantimesep The separator for the numeric time format.

```
\newcommand*{\DTMgermantimesep}{:}
```

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

```
\DTMdefkey{german}{dowdaysep}{\renewcommand*{\DTMgermandowdaysep}{#1}}
\DTMdefkey{german}{daymonthsep}{\renewcommand*{\DTMgermandaymonthsep}{#1}}
\DTMdefkey{german}{monthyearsep}{\renewcommand*{\DTMgermanmonthyearsep}{#1}}
\DTMdefkey{german}{datetimesep}{\renewcommand*{\DTMgermandatetimesep}{#1}}
\DTMdefkey{german}{timezonesep}{\renewcommand*{\DTMgermantimezonesep}{#1}}
\DTMdefkey{german}{datesep}{\renewcommand*{\DTMgermandatesep}{#1}}
\DTMdefkey{german}{timesep}{\renewcommand*{\DTMgermantimesep}{#1}}
```

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

```
\DTMdefboolkey{german}{abbr}[true]{}
```

The default is full name

```
\DTMsetbool{german}{abbr}{false}
```

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

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

The default is to use mappings.

```
\DTMsetbool{german}{mapzone}{true}
```

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

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

The default is to show the day of month.

```
\DTMsetbool{german}{showdayofmonth}{true}
```

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

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

The default is to show the year.

```
\DTMsetbool{german}{showyear}{true}
```

Define the `german` style.

```
\DTMnewstyle
 {german}% label
 {% date style
   \renewcommand*\DTMdisplaydate[4]{%
     \ifDTMshowdow
       \ifnum##4>-1
         \DTMifbool{german}{abbr}%
         {\DTMgermanshortweekdayname{##4}}%
         {\DTMgermanweekdayname{##4}}%
         \DTMgermandowdaysep
       \fi
     \fi
     %
     \DTMifbool{german}{showdayofmonth}%
     {\DTMgermanordinal{##3}\DTMgermandaymonthsep}%
     {}%
     %
     \DTMifbool{german}{abbr}%
     {\DTMgermanshortmonthname{##2}}%
     {\DTMgermanmonthname{##2}}%
     %
```

```
    \DTMifbool{german}{showyear}%
    {%
      \DTMgermanmonthyearsep%
      \DTMifbool{german}{abbr}%
      {'\DTMtwodigits{##1}}%
      {\number##1 }% space intended
    }%
    {}%
  }%
  \renewcommand*\DTMDisplaydate[4]{%
    \ifDTMshowdow
      \ifnum##4>-1
        \DTMifbool{german}{abbr}%
        {\DTMgermanshortweekdayname{##4}}%
        {\DTMgermanweekdayname{##4}}%
        \DTMgermandowdaysep
      \fi
    \fi
    %
    \DTMifbool{german}{showdayofmonth}%
    {\DTMgermanordinal{##3}\DTMgermandaymonthsep}%
    {}%
    %
    \DTMifbool{german}{abbr}%
    {\DTMgermanshortmonthname{##2}}%
    {\DTMgermanmonthname{##2}}%
    %
    \DTMifbool{german}{showyear}%
    {%
      \DTMgermanmonthyearsep%
      \DTMifbool{german}{abbr}%
      {'\DTMtwodigits{##1}}%
      {\number##1 }% space intended
    }%
    {}%
   }
  }%
{% time style (use default)
  \renewcommand*\DTMdisplaytime[3]{%
   \DTMtwodigits{##1}%
   \DTMgermantimesep\DTMtwodigits{##2}%
   \ifDTMshowseconds\DTMgermantimesep\DTMtwodigits{##3}\fi
  }%
}%
{% zone style
  \DTMresetzones
  \DTMgermanzonemaps
  \renewcommand*{\DTMdisplayzone}[2]{%
    \DTMifbool{german}{mapzone}%
    {\DTMusezonemapordefault{##1}{##2}}%
    {%
      \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
      \ifDTMshowzoneminutes\DTMgermantimesep\DTMtwodigits{##2}\fi
    }%
  }%
}%
```

```
{% full style
  \renewcommand*{\DTMdisplay}[9]{%
   \ifDTMshowdate
    \DTMdisplaydate{##1}{##2}{##3}{##4}%
    \DTMgermandatetimesep
   \fi
   \DTMdisplaytime{##5}{##6}{##7}%
   \ifDTMshowzone
    \DTMgermantimezonesep
    \DTMdisplayzone{##8}{##9}%
   \fi
  }%
  \renewcommand*{\DTMDisplay}[9]{%
   \ifDTMshowdate
    \DTMDisplaydate{##1}{##2}{##3}{##4}%
    \DTMgermandatetimesep
   \fi
   \DTMdisplaytime{##5}{##6}{##7}%
   \ifDTMshowzone
    \DTMgermantimezonesep
    \DTMdisplayzone{##8}{##9}%
   \fi
  }%
}%
```

Define numeric style.

```
\DTMnewstyle
{german-numeric}% label
{% date style
   \renewcommand*\DTMdisplaydate[4]{%
     \ifDTMshowdow
       \ifnum##4>-1
         \DTMifbool{german}{abbr}%
         {\DTMgermanshortweekdayname{##4}}%
         {\DTMgermanweekdayname{##4}}%
         \DTMgermandowdaysep
       \fi
     \fi
     %
     \DTMifbool{german}{showdayofmonth}%
     {%
       \DTMtwodigits{##3}%
       \DTMgermandatesep
     }%
     {}%
     \DTMtwodigits{##2}%
     \DTMgermandatesep%
     \DTMifbool{german}{showyear}%
     {%
       \DTMifbool{german}{abbr}%
       {\DTMtwodigits{##1}}%
       {\number##1 }% space intended
     }%
     {}%
   }%
   \renewcommand*{\DTMDisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
}%
```

```
{% time style
   \renewcommand*\DTMdisplaytime[3]{%
     \DTMtwodigits{##1}%
     \DTMgermantimesep\DTMtwodigits{##2}%
     \ifDTMshowseconds\DTMgermantimesep\DTMtwodigits{##3}\fi
   }%
}%
{% zone style
  \DTMresetzones
  \DTMgermanzonemaps
  \renewcommand*{\DTMdisplayzone}[2]{%
    \DTMifbool{german}{mapzone}%
    {\DTMusezonemapordefault{##1}{##2}}%
    {%
      \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
      \ifDTMshowzoneminutes\DTMgermantimesep\DTMtwodigits{##2}\fi
    }%
  }%
}%
{% full style
  \renewcommand*{\DTMdisplay}[9]{%
   \ifDTMshowdate
    \DTMdisplaydate{##1}{##2}{##3}{##4}%
    \DTMgermandatetimesep
   \fi
   \DTMdisplaytime{##5}{##6}{##7}%
   \ifDTMshowzone
    \DTMgermantimezonesep
    \DTMdisplayzone{##8}{##9}%
   \fi
  }%
  \renewcommand*{\DTMDisplay}{\DTMdisplay}%
}
```

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

```
\newcommand*{\DTMgermanzonemaps}{%
  \DTMdefzonemap{01}{00}{MEZ}%
  \DTMdefzonemap{02}{00}{MESZ}%
}
```

Switch style according to the `useregional` setting.

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

Redefine `\dategerman` (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\dategerman
  {% do nothing
  }%
  {%
    \def\dategerman{%
      \DTMifcaseregional
```

```
      {}% do nothing
      {\DTMsetstyle{german}}%
      {\DTMsetstyle{german-numeric}}%
    }%
  }%
}%
{%
  \csdef{date\CurrentTrackedDialect}{%
    \DTMifcaseregional
    {}% do nothing
    {\DTMsetstyle{german}}%
    {\DTMsetstyle{german-numeric}}
  }%
}%
```

7 German localization (de-DE, datetime2-de-DE.ldf)

Identify Module

```
\ProvidesDateTimeModule{de-DE}[2017/10/03 v2.0]
```

Require the basic German module

```
\RequireDateTimeModule{german}
```

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

\DTMdeDEdowdaysep The separator between weekday and day

```
\newcommand*{\DTMdeDEdowdaysep}{,\space}
```

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

```
\newcommand*{\DTMdeDEdaymonthsep}{.\DTMtexorpdfstring{\protect~}{\space}}
```

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

```
\newcommand*{\DTMdeDEmonthyearsep}{\space}
```

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

```
\newcommand*{\DTMdeDEdatetimesep}{,\space}
```

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

```
\newcommand*{\DTMdeDEtimezonesep}{\space}
```

\DTMdeDEdatesep The separator for the numeric date format.

```
\newcommand*{\DTMdeDEdatesep}{.}
```

\DTMdeDEtimesep The separator for the numeric time format.

```
\newcommand*{\DTMdeDEtimesep}{:}
```

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

```
\DTMdefkey{de-DE}{dowdaysep}{\renewcommand*{\DTMdeDEdowdaysep}{#1}}
\DTMdefkey{de-DE}{daymonthsep}{\renewcommand*{\DTMdeDEdaymonthsep}{#1}}
\DTMdefkey{de-DE}{monthyearsep}{\renewcommand*{\DTMdeDEmonthyearsep}{#1}}
\DTMdefkey{de-DE}{datetimesep}{\renewcommand*{\DTMdeDEdatetimesep}{#1}}
\DTMdefkey{de-DE}{timezonesep}{\renewcommand*{\DTMdeDEtimezonesep}{#1}}
\DTMdefkey{de-DE}{datesep}{\renewcommand*{\DTMdeDEdatesep}{#1}}
\DTMdefkey{de-DE}{timesep}{\renewcommand*{\DTMdeDEtimesep}{#1}}
```

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

```
\DTMdefboolkey{de-DE}{abbr}[true]{}
```

The default is full name

```
\DTMsetbool{de-DE}{abbr}{false}
```

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

```
\DTMdefboolkey{de-DE}{mapzone}[true]{}
```

The default is to use mappings.

```
\DTMsetbool{de-DE}{mapzone}{true}
```

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

```
\DTMdefboolkey{de-DE}{showdayofmonth}[true]{}
```

The default is to show the day of month.

```
\DTMsetbool{de-DE}{showdayofmonth}{true}
```

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

```
\DTMdefboolkey{de-DE}{showyear}[true]{}
```

The default is to show the year.

```
\DTMsetbool{de-DE}{showyear}{true}
```

Define the de-DE style

```
\DTMnewstyle
{de-DE}% label
{% date style
  \renewcommand*\DTMdisplaydate[4]{%
    \ifDTMshowdow
      \ifnum##4>-1
        \DTMifbool{de-DE}{abbr}%
        {\DTMgermanshortweekdayname{##4}}%
        {\DTMgermanweekdayname{##4}}%
        \DTMdeDEdowdaysep
      \fi
    \fi
    %
    \DTMifbool{de-DE}{showdayofmonth}%
    {\DTMgermanordinal{##3}\DTMdeDEdaymonthsep}%
    {}%
    %
    \DTMifbool{de-DE}{abbr}%
    {\DTMgermanshortmonthname{##2}}%
    {\DTMgermanmonthname{##2}}%
    %
    \DTMifbool{de-DE}{showyear}%
    {%
      \DTMdeDEmonthyearsep%
      \DTMifbool{de-DE}{abbr}%
      {’\DTMtwodigits{##1}}%
      {\number##1 }% space intended
    }%
    {}%
  }%
  \renewcommand*\DTMDisplaydate[4]{%
    \ifDTMshowdow
      \ifnum##4>-1
```

```
        \DTMifbool{de-DE}{abbr}%
        {\DTMgermanshortweekdayname{##4}}%
        {\DTMgermanweekdayname{##4}}%
        \DTMdeDEdowdaysep
      \fi
    \fi
    %
    \DTMifbool{de-DE}{showdayofmonth}%
    {\DTMgermanordinal{##3}\DTMdeDEdaymonthsep}%
    {}%
    %
    \DTMifbool{de-DE}{abbr}%
    {\DTMgermanshortmonthname{##2}}%
    {\DTMgermanmonthname{##2}}%
    %
    \DTMifbool{de-DE}{showyear}%
    {%
      \DTMdeDEmonthyearsep%
      \DTMifbool{de-DE}{abbr}%
      {'\DTMtwodigits{##1}}%
      {\number##1 }% space intended
    }%
    {}%
  }
}%
{% time style (use default)
  \renewcommand*\DTMdisplaytime[3]{%
    \DTMtwodigits{##1}%
    \DTMdeDEtimesep\DTMtwodigits{##2}%
    \ifDTMshowseconds\DTMdeDEtimesep\DTMtwodigits{##3}\fi
  }%
}%
{% zone style
  \DTMresetzones
  \DTMgermanzonemaps
  \renewcommand*{\DTMdisplayzone}[2]{%
    \DTMifbool{de-DE}{mapzone}%
    {\DTMusezonemapordefault{##1}{##2}}%
    {%
      \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
      \ifDTMshowzoneminutes\DTMdeDEtimesep\DTMtwodigits{##2}\fi
    }%
  }%
}%
{% full style
  \renewcommand*{\DTMdisplay}[9]{%
    \ifDTMshowdate
      \DTMdisplaydate{##1}{##2}{##3}{##4}%
      \DTMdeDEdatetimesep
    \fi
    \DTMdisplaytime{##5}{##6}{##7}%
    \ifDTMshowzone
      \DTMdeDEtimezonesep
      \DTMdisplayzone{##8}{##9}%
    \fi
  }%
```

```
  \renewcommand*{\DTMDisplay}[9]{%
    \ifDTMshowdate
      \DTMDisplaydate{##1}{##2}{##3}{##4}%
      \DTMdeDEdatetimesep
    \fi
    \DTMdisplaytime{##5}{##6}{##7}%
    \ifDTMshowzone
      \DTMdeDEtimezonesep
      \DTMdisplayzone{##8}{##9}%
    \fi
  }%
}%
```

Define numeric style.

```
\DTMnewstyle
{de-DE-numeric}% label
{% date style
  \renewcommand*\DTMdisplaydate[4]{%
    \ifDTMshowdow
      \ifnum##4>-1
        \DTMifbool{de-DE}{abbr}%
        {\DTMgermanshortweekdayname{##4}}%
        {\DTMgermanweekdayname{##4}}%
        \DTMdeDEdowdaysep
      \fi
    \fi
    %
    \DTMifbool{de-DE}{showdayofmonth}%
    {%
      \DTMtwodigits{##3}%
      \DTMdeDEdatesep
    }%
    {}%
    \DTMtwodigits{##2}%
    \DTMdeDEdatesep%
    \DTMifbool{de-DE}{showyear}%
    {%
      \DTMifbool{de-DE}{abbr}%
      {\DTMtwodigits{##1}}%
      {\number##1 }% space intended
    }%
    {}%
    }%
  \renewcommand*{\DTMDisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
}%
{% time style
  \renewcommand*\DTMdisplaytime[3]{%
    \DTMtwodigits{##1}%
    \DTMdeDEtimesep\DTMtwodigits{##2}%
    \ifDTMshowseconds\DTMdeDEtimesep\DTMtwodigits{##3}\fi
  }%
}%
{% zone style
  \DTMresetzones
  \DTMgermanzonemaps
  \renewcommand*{\DTMdisplayzone}[2]{%
    \DTMifbool{de-DE}{mapzone}%
```

```
    {\DTMusezonemapordefault{##1}{##2}}%
    {%
      \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
      \ifDTMshowzoneminutes\DTMgermantimesep\DTMtwodigits{##2}\fi
    }%
  }%
}%
{% full style
  \renewcommand*{\DTMdisplay}[9]{%
    \ifDTMshowdate
      \DTMdisplaydate{##1}{##2}{##3}{##4}%
      \DTMdeDEdatetimesep
    \fi
    \DTMdisplaytime{##5}{##6}{##7}%
    \ifDTMshowzone
      \DTMdeDEtimezonesep
      \DTMdisplayzone{##8}{##9}%
    \fi
  }%
  \renewcommand*{\DTMDisplay}{\DTMdisplay}%
}
```

Switch style according to the `useregional` setting.

```
\DTMifcaseregional
  {}% do nothing
  {\DTMsetstyle{de-DE}}
  {\DTMsetstyle{de-DE-numeric}}
```

Redefine `\dategerman` (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\dategerman
  {% do nothing
  }%
  {%
    \def\dategerman{%
      \DTMifcaseregional
      {}% do nothing
      {\DTMsetstyle{german}}%
      {\DTMsetstyle{german-numeric}}%
    }%
  }%
}%
{%
  \csdef{date\CurrentTrackedDialect}{%
    \DTMifcaseregional
    {}% do nothing
    {\DTMsetstyle{de-DE}}%
    {\DTMsetstyle{de-DE-numeric}}
  }%
}%
```

8 Austrian German localization (`de-AT`, `datetime2-de-AT.ldf`)

Identify Module

```
\ProvidesDateTimeModule{de-AT}[2017/10/03 v2.0]
```

Require the basic German module

```
\RequireDateTimeModule{german}
```

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

`\DTMdeATdowdaysep` The separator between weekday and day

```
\newcommand*{\DTMdeATdowdaysep}{,\space}
```

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

```
\newcommand*{\DTMdeATdaymonthsep}{.\DTMtexorpdfstring{\protect~}{\space}}
```

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

```
\newcommand*{\DTMdeATmonthyearsep}{\space}
```

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

```
\newcommand*{\DTMdeATdatetimesep}{,\space}
```

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

```
\newcommand*{\DTMdeATtimezonesep}{\space}
```

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

```
\newcommand*{\DTMdeATdatesep}{-}
```

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

```
\newcommand*{\DTMdeATtimesep}{:}
```

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

```
\DTMdefkey{de-AT}{dowdaysep}{\renewcommand*{\DTMdeATdowdaysep}{#1}}
\DTMdefkey{de-AT}{daymonthsep}{\renewcommand*{\DTMdeATdaymonthsep}{#1}}
\DTMdefkey{de-AT}{monthyearsep}{\renewcommand*{\DTMdeATmonthyearsep}{#1}}
\DTMdefkey{de-AT}{datetimesep}{\renewcommand*{\DTMdeATdatetimesep}{#1}}
\DTMdefkey{de-AT}{timezonesep}{\renewcommand*{\DTMdeATtimezonesep}{#1}}
\DTMdefkey{de-AT}{datesep}{\renewcommand*{\DTMdeATdatesep}{#1}}
\DTMdefkey{de-AT}{timesep}{\renewcommand*{\DTMdeATtimesep}{#1}}
```

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

```
\DTMdefboolkey{de-AT}{abbr}[true]{}
```

The default is full name

```
\DTMsetbool{de-AT}{abbr}{false}
```

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

```
\DTMdefboolkey{de-AT}{mapzone}[true]{}
```

The default is to use mappings.

```
\DTMsetbool{de-AT}{mapzone}{true}
```

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

```
\DTMdefboolkey{de-AT}{showdayofmonth}[true]{}
```

The default is to show the day of month.

```
\DTMsetbool{de-AT}{showdayofmonth}{true}
```

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

```
\DTMdefboolkey{de-AT}{showyear}[true]{}
```

The default is to show the year.

```
\DTMsetbool{de-AT}{showyear}{true}
```

Define the de-AT style

```
\DTMnewstyle
{de-AT}% label
{% date style
  \renewcommand*\DTMdisplaydate[4]{%
    \ifDTMshowdow
      \ifnum##4>-1
        \DTMifbool{de-AT}{abbr}%
        {\DTMgermanshortweekdayname{##4}}%
        {\DTMgermanweekdayname{##4}}%
        \DTMdeATdowdaysep
      \fi
    \fi
    %
    \DTMifbool{de-AT}{showdayofmonth}%
    {\DTMgermanordinal{##3}\DTMdeATdaymonthsep}%
    {}%
    %
    \DTMifbool{de-AT}{abbr}%
    {\DTMdeATshortmonthname{##2}}%
    {\DTMdeATmonthname{##2}}%
    %
    \DTMifbool{de-AT}{showyear}%
    {%
      \DTMdeATmonthyearsep%
      \number##1 % space intended
    }%
    {}%
  }%
  \renewcommand*\DTMDisplaydate[4]{%
    \ifDTMshowdow
      \ifnum##4>-1
        \DTMifbool{de-AT}{abbr}%
        {\DTMgermanshortweekdayname{##4}}%
        {\DTMgermanweekdayname{##4}}%
        \DTMdeATdowdaysep
      \fi
    \fi
    %
    \DTMifbool{de-AT}{showdayofmonth}%
    {\DTMgermanordinal{##3}\DTMdeATdaymonthsep}%
    {}%
    %
    \DTMifbool{de-AT}{abbr}%
    {\DTMdeATshortmonthname{##2}}%
    {\DTMdeATmonthname{##2}}%
    %
    \DTMifbool{de-AT}{showyear}%
    {%
      \DTMdeATmonthyearsep%
      \number##1 % space intended
    }%
    {}%
  }
```

```
}%
{% time style (use default)
  \renewcommand*\DTMdisplaytime[3]{%
    \DTMtwodigits{##1}%
    \DTMdeATtimesep\DTMtwodigits{##2}%
    \ifDTMshowseconds\DTMdeATtimesep\DTMtwodigits{##3}\fi
  }%
}%
{% zone style
  \DTMresetzones
  \DTMgermanzonemaps
  \renewcommand*{\DTMdisplayzone}[2]{%
    \DTMifbool{de-AT}{mapzone}%
    {\DTMusezonemapordefault{##1}{##2}}%
    {%
      \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
      \ifDTMshowzoneminutes\DTMdeATtimesep\DTMtwodigits{##2}\fi
    }%
  }%
}%
{% full style
  \renewcommand*{\DTMdisplay}[9]{%
    \ifDTMshowdate
      \DTMdisplaydate{##1}{##2}{##3}{##4}%
      \DTMdeATdatetimesep
    \fi
    \DTMdisplaytime{##5}{##6}{##7}%
    \ifDTMshowzone
      \DTMdeATtimezonesep
      \DTMdisplayzone{##8}{##9}%
    \fi
  }%
  \renewcommand*{\DTMDisplay}[9]{%
    \ifDTMshowdate
      \DTMDisplaydate{##1}{##2}{##3}{##4}%
      \DTMdeATdatetimesep
    \fi
    \DTMdisplaytime{##5}{##6}{##7}%
    \ifDTMshowzone
      \DTMdeATtimezonesep
      \DTMdisplayzone{##8}{##9}%
    \fi
  }%
}%
```

Define numeric style.

```
\DTMnewstyle
{de-AT-numeric}% label
{% date style
  \renewcommand*\DTMdisplaydate[4]{%
    \DTMifbool{de-AT}{showyear}%
    {%
      \number##1 % space intended
      \DTMdeATdatesep%
    }%
    {}%
    %
```

```
    \DTMtwodigits{##2}%
    %
    \DTMifbool{de-AT}{showdayofmonth}%
    {%
      \DTMdeATdatesep%
      \DTMtwodigits{##3}%
    }%
    {}%
  }%
  \renewcommand*{\DTMDisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
}%
{% time style
  \renewcommand*\DTMdisplaytime[3]{%
    \DTMtwodigits{##1}%
    \DTMdeATtimesep\DTMtwodigits{##2}%
    \ifDTMshowseconds\DTMdeATtimesep\DTMtwodigits{##3}\fi
  }%
}%
{% zone style
  \DTMresetzones
  \DTMgermanzonemaps
  \renewcommand*{\DTMdisplayzone}[2]{%
    \DTMifbool{de-AT}{mapzone}%
    {\DTMusezonemapordefault{##1}{##2}}%
    {%
      \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
      \ifDTMshowzoneminutes\DTMgermantimesep\DTMtwodigits{##2}\fi
    }%
  }%
}%
{% full style
  \renewcommand*{\DTMdisplay}[9]{%
    \ifDTMshowdate
      \DTMdisplaydate{##1}{##2}{##3}{##4}%
      \DTMdeATdatetimesep
    \fi
    \DTMdisplaytime{##5}{##6}{##7}%
    \ifDTMshowzone
      \DTMdeATtimezonesep
      \DTMdisplayzone{##8}{##9}%
    \fi
  }%
  \renewcommand*{\DTMDisplay}{\DTMdisplay}%
}
```

Switch style according to the `useregional` setting.

```
\DTMifcaseregional
{}% do nothing
{\DTMsetstyle{de-AT}}
{\DTMsetstyle{de-AT-numeric}}
```

Redefine `\dategerman` (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\dategerman
  {% do nothing
```

```
  }%
  {%
    \def\dategerman{%
      \DTMifcaseregional
      {}% do nothing
      {\DTMsetstyle{german}}%
      {\DTMsetstyle{german-numeric}}%
    }%
  }%
}%
{%
  \csdef{date\CurrentTrackedDialect}{%
    \DTMifcaseregional
    {}% do nothing
    {\DTMsetstyle{de-AT}}%
    {\DTMsetstyle{de-AT-numeric}}
  }%
}%
```

9 Swiss German localization (de-CH, datetime2-de-CH.ldf)

Identify Module

```
\ProvidesDateTimeModule{de-CH}[2017/10/03 v2.0]
```

Require the basic German module

```
\RequireDateTimeModule{german}
```

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

\DTMdeCHdowdaysep The separator between weekday and day

```
\newcommand*{\DTMdeCHdowdaysep}{,\space}
```

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

```
\newcommand*{\DTMdeCHdaymonthsep}{.\DTMtexorpdfstring{\protect~}{\space}}
```

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

```
\newcommand*{\DTMdeCHmonthyearsep}{\space}
```

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

```
\newcommand*{\DTMdeCHdatetimesep}{,\space}
```

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

```
\newcommand*{\DTMdeCHtimezonesep}{\space}
```

\DTMdeCHdatesep The separator for the numeric date format.

```
\newcommand*{\DTMdeCHdatesep}{.}
```

\DTMdeCHtimesep The separator for the numeric time format.

```
\newcommand*{\DTMdeCHtimesep}{.}
```

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

```
\DTMdefkey{de-CH}{dowdaysep}{\renewcommand*{\DTMdeCHdowdaysep}{#1}}
\DTMdefkey{de-CH}{daymonthsep}{\renewcommand*{\DTMdeCHdaymonthsep}{#1}}
\DTMdefkey{de-CH}{monthyearsep}{\renewcommand*{\DTMdeCHmonthyearsep}{#1}}
```

```
\DTMdefkey{de-CH}{datetimesep}{\renewcommand*{\DTMdeCHdatetimesep}{#1}}
\DTMdefkey{de-CH}{timezonesep}{\renewcommand*{\DTMdeCHtimezonesep}{#1}}
\DTMdefkey{de-CH}{datesep}{\renewcommand*{\DTMdeCHdatesep}{#1}}
\DTMdefkey{de-CH}{timesep}{\renewcommand*{\DTMdeCHtimesep}{#1}}
```

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

```
\DTMdefboolkey{de-CH}{abbr}[true]{}
```

The default is full name

```
\DTMsetbool{de-CH}{abbr}{false}
```

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

```
\DTMdefboolkey{de-CH}{mapzone}[true]{}
```

The default is to use mappings.

```
\DTMsetbool{de-CH}{mapzone}{true}
```

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

```
\DTMdefboolkey{de-CH}{showdayofmonth}[true]{}
```

The default is to show the day of month.

```
\DTMsetbool{de-CH}{showdayofmonth}{true}
```

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

```
\DTMdefboolkey{de-CH}{showyear}[true]{}
```

The default is to show the year.

```
\DTMsetbool{de-CH}{showyear}{true}
```

Define the de-CH style

```
\DTMnewstyle
{de-CH}% label
{% date style
  \renewcommand*\DTMdisplaydate[4]{%
    \ifDTMshowdow
      \ifnum##4>-1
        \DTMifbool{de-CH}{abbr}%
        {\DTMgermanshortweekdayname{##4}}%
        {\DTMgermanweekdayname{##4}}%
        \DTMdeCHdowdaysep
      \fi
    \fi
    %
    \DTMifbool{de-CH}{showdayofmonth}%
    {\DTMgermanordinal{##3}\DTMdeCHdaymonthsep}%
    {}%
    %
    \DTMifbool{de-CH}{abbr}%
    {\DTMgermanshortmonthname{##2}}%
    {\DTMgermanmonthname{##2}}%
    %
    \DTMifbool{de-CH}{showyear}%
    {%
      \DTMdeCHmonthyearsep%
      \number##1 % space intended
    }%
    {}%
  }%
  \renewcommand*\DTMDisplaydate[4]{%
```

```
    \ifDTMshowdow
      \ifnum##4>-1
        \DTMifbool{de-CH}{abbr}%
        {\DTMgermanshortweekdayname{##4}}%
        {\DTMgermanweekdayname{##4}}%
        \DTMdeCHdowdaysep
      \fi
    \fi
    %
    \DTMifbool{de-CH}{showdayofmonth}%
    {\DTMgermanordinal{##3}\DTMdeCHdaymonthsep}%
    {}%
    %
    \DTMifbool{de-CH}{abbr}%
    {\DTMgermanshortmonthname{##2}}%
    {\DTMgermanmonthname{##2}}%
    %
    \DTMifbool{de-CH}{showyear}%
    {%
      \DTMdeCHmonthyearsep%
      \number##1 % space intended
    }%
    {}%
  }
}%
{% time style (use default)
  \renewcommand*\DTMdisplaytime[3]{%
    \DTMtwodigits{##1}%
    \DTMdeCHtimesep\DTMtwodigits{##2}%
    \ifDTMshowseconds\DTMdeCHtimesep\DTMtwodigits{##3}\fi\space%
    Uhr%
  }%
}%
{% zone style
  \DTMresetzones
  \DTMgermanzonemaps
  \renewcommand*{\DTMdisplayzone}[2]{%
    \DTMifbool{de-CH}{mapzone}%
    {\DTMusezonemapordefault{##1}{##2}}%
    {%
      \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
        \ifDTMshowzoneminutes\DTMdeCHtimesep\DTMtwodigits{##2}\fi
    }%
  }%
}%
{% full style
  \renewcommand*{\DTMdisplay}[9]{%
    \ifDTMshowdate
      \DTMdisplaydate{##1}{##2}{##3}{##4}%
      \DTMdeCHdatetimesep
    \fi
    \DTMdisplaytime{##5}{##6}{##7}%
    \ifDTMshowzone
      \DTMdeCHtimezonesep
      \DTMdisplayzone{##8}{##9}%
    \fi
```

```
  }%
  \renewcommand*{\DTMDisplay}[9]{%
    \ifDTMshowdate
      \DTMDisplaydate{##1}{##2}{##3}{##4}%
      \DTMdeCHdatetimesep
    \fi
    \DTMdisplaytime{##5}{##6}{##7}%
    \ifDTMshowzone
      \DTMdeCHtimezonesep
      \DTMdisplayzone{##8}{##9}%
    \fi
  }%
}%
```

Define numeric style.

```
\DTMnewstyle
{de-CH-numeric}% label
{% date style
  \renewcommand*\DTMdisplaydate[4]{%
    \ifDTMshowdow
      \ifnum##4>-1
        \DTMifbool{de-CH}{abbr}%
        {\DTMgermanshortweekdayname{##4}}%
        {\DTMgermanweekdayname{##4}}%
\DTMdeCHdowdaysep
      \fi
    \fi
    %
    \DTMifbool{de-CH}{showdayofmonth}%
    {%
      \DTMtwodigits{##3}%
      \DTMdeCHdatesep
    }%
    {}%
    \DTMtwodigits{##2}%
    \DTMdeCHdatesep%
    \DTMifbool{de-CH}{showyear}%
    {%
      \number##1 % space intended
    }%
    {}%
  }%
  \renewcommand*{\DTMDisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
}%
{% time style
  \renewcommand*\DTMdisplaytime[3]{%
    \DTMtwodigits{##1}%
    \DTMdeCHtimesep\DTMtwodigits{##2}%
    \ifDTMshowseconds\DTMdeCHtimesep\DTMtwodigits{##3}\fi\space%
    Uhr%
  }%
}%
{% zone style
  \DTMresetzones
  \DTMgermanzonemaps
  \renewcommand*{\DTMdisplayzone}[2]{%
    \DTMifbool{de-CH}{mapzone}%
```

```
    {\DTMusezonemapordefault{##1}{##2}}%
    {%
      \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
      \ifDTMshowzoneminutes\DTMgermantimesep\DTMtwodigits{##2}\fi
    }%
  }%
}%
{% full style
  \renewcommand*{\DTMdisplay}[9]{%
    \ifDTMshowdate
      \DTMdisplaydate{##1}{##2}{##3}{##4}%
      \DTMdeCHdatetimesep
    \fi
    \DTMdisplaytime{##5}{##6}{##7}%
    \ifDTMshowzone
      \DTMdeCHtimezonesep
      \DTMdisplayzone{##8}{##9}%
    \fi
  }%
  \renewcommand*{\DTMDisplay}{\DTMdisplay}%
}
```

Switch style according to the `useregional` setting.

```
\DTMifcaseregional
{}% do nothing
{\DTMsetstyle{de-CH}}
{\DTMsetstyle{de-CH-numeric}}
```

Redefine `\dategerman` (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\dategerman
  {% do nothing
  }%
  {%
    \def\dategerman{%
      \DTMifcaseregional
      {}% do nothing
      {\DTMsetstyle{german}}%
      {\DTMsetstyle{german-numeric}}%
    }%
  }%
}%
{%
  \csdef{date\CurrentTrackedDialect}{%
    \DTMifcaseregional
    {}% do nothing
    {\DTMsetstyle{de-CH}}%
    {\DTMsetstyle{de-CH-numeric}}
  }%
}%
```

Change History

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