German Module for the datetime2 Package

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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.

Thanks to Jürgen Spitzmüller for his valuable advice while developing Version 2.0 of this module.

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

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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 X∃LATEX or LuaLATEX are used. Please make sure your text editor is set to UTF-8 if you want to view this code.

Identify module

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

`\DTMgermanordinal`

```
2 \newcommand*{\DTMgermanordinal}[1]{%
3   \number#1
4 }
```

`\DTMgermanmonthname`   German month names.

```
5 \newcommand*{\DTMgermanmonthname}[1]{%
6   \ifcase#1
7   \or
8   Januar%
9   \or
10  Februar%
11  \or
12  März%
13  \or
14  April%
15  \or
16  Mai%
17  \or
18  Juni%
19  \or
20  Juli%
21  \or
22  August%
23  \or
24  September%
25  \or
26  Oktober%
27  \or
28  November%
29  \or
30  Dezember%
31  \fi
32 }
```

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

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

7

```
34    \ifcase#1
35    \or
36    Jänner%
37    \or
38    Februar%
39    \or
40    März%
41    \or
42    April%
43    \or
44    Mai%
45    \or
46    Juni%
47    \or
48    Juli%
49    \or
50    August%
51    \or
52    September%
53    \or
54    Oktober%
55    \or
56    November%
57    \or
58    Dezember%
59    \fi
60 }
```

\DTMgermanshortmonthname   Abbreviated German month names.

```
61 \newcommand*{\DTMgermanshortmonthname}[1]{%
62    \ifcase#1
63    \or
64    Jan.%
65    \or
66    Feb.%
67    \or
68    März%
69    \or
70    Apr.%
71    \or
72    Mai%
73    \or
74    Juni%
75    \or
76    Juli%
77    \or
78    Aug.%
79    \or
80    Sept.%
81    \or
82    Okt.%
83    \or
84    Nov.%
85    \or
86    Dez.%
87    \fi
88 }
```

\DTMdeATshortmonthname Abbreviated Austrian German month names.

```
89 \newcommand*{\DTMdeATshortmonthname}[1]{%
90   \ifcase#1
91   \or
92   Jän.%
93   \or
94   Feb.%
95   \or
96   März%
97   \or
98   Apr.%
99   \or
100  Mai%
101  \or
102  Juni%
103  \or
104  Juli%
105  \or
106  Aug.%
107  \or
108  Sept.%
109  \or
110  Okt.%
111  \or
112  Nov.%
113  \or
114  Dez.%
115  \fi
116 }
```

\DTMdeCHshortmonthname Abbreviated Swiss German month names.

```
117 \newcommand*{\DTMdeCHshortmonthname}[1]{%
118  \ifcase#1
119  \or
120  Jan.%
121  \or
122  Febr.%
123  \or
124  März%
125  \or
126  April%
127  \or
128  Mai%
129  \or
130  Juni%
131  \or
132  Juli%
133  \or
134  Aug.%
135  \or
136  Sept.%
137  \or
138  Okt.%
139  \or
140  Nov.%
141  \or
```

```
142    Dez.%
143    \fi
144 }
```

\DTMgermanweekdayname   Provides weekday names

```
145 \newcommand*{\DTMgermanweekdayname}[1]{%
146    \ifcase#1
147    Montag%
148    \or
149    Dienstag%
150    \or
151    Mittwoch%
152    \or
153    Donnerstag%
154    \or
155    Freitag%
156    \or
157    Samstag%
158    \or
159    Sonntag%
160    \fi
161 }
```

\DTMgermanshortweekdayname   Provides abbreviated weekday names

```
162 \newcommand*{\DTMgermanshortweekdayname}[1]{%
163    \ifcase#1
164    Mo%
165    \or
166    Di%
167    \or
168    Mi%
169    \or
170    Do%
171    \or
172    Fr%
173    \or
174    Sa%
175    \or
176    So%
177    \fi
178 }
```

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 X∃LaTeX 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

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

\DTMgermanordinal

```
180 \newcommand*{\DTMgermanordinal}[1]{%
181    \number#1
182 }
```

10

\DTMgermanmonthname German month names.

```
183 \newcommand*{\DTMgermanmonthname}[1]{%
184   \ifcase#1
185   \or
186   Januar%
187   \or
188   Februar%
189   \or
190   M\protect\"arz%
191   \or
192   April%
193   \or
194   Mai%
195   \or
196   Juni%
197   \or
198   Juli%
199   \or
200   August%
201   \or
202   September%
203   \or
204   Oktober%
205   \or
206   November%
207   \or
208   Dezember%
209   \fi
210 }
```

\DTMdeATmonthname Austrian German month names.

```
211 \newcommand*{\DTMdeATmonthname}[1]{%
212   \ifcase#1
213   \or
214   J\protect\"anner%
215   \or
216   Februar%
217   \or
218   M\protect\"arz%
219   \or
220   April%
221   \or
222   Mai%
223   \or
224   Juni%
225   \or
226   Juli%
227   \or
228   August%
229   \or
230   September%
231   \or
232   Oktober%
233   \or
234   November%
235   \or
```

```
236    Dezember%
237    \fi
238 }
```

\DTMgermanshortmonthname   Abbreviated German month names.

```
239 \newcommand*{\DTMgermanshortmonthname}[1]{%
240    \ifcase#1
241    \or
242    Jan.%
243    \or
244    Feb.%
245    \or
246    M\protect\"arz%
247    \or
248    Apr.%
249    \or
250    Mai%
251    \or
252    Juni%
253    \or
254    Juli%
255    \or
256    Aug.%
257    \or
258    Sept.%
259    \or
260    Okt.%
261    \or
262    Nov.%
263    \or
264    Dez.%
265    \fi
266 }
```

\DTMdeATshortmonthname   Abbreviated Austrian German month names.

```
267 \newcommand*{\DTMdeATshortmonthname}[1]{%
268    \ifcase#1
269    \or
270    J\protect\"an.%
271    \or
272    Feb.%
273    \or
274    M\protect\"arz%
275    \or
276    Apr.%
277    \or
278    Mai%
279    \or
280    Juni%
281    \or
282    Juli%
283    \or
284    Aug.%
285    \or
286    Sept.%
287    \or
```

```
288    Okt.%
289    \or
290    Nov.%
291    \or
292    Dez.%
293    \fi
294 }
```

\DTMdeCHshortmonthname Abbreviated Swiss German month names.

```
295 \newcommand*{\DTMdeCHshortmonthname}[1]{%
296 \ifcase#1
297 \or
298 Jan.%
299 \or
300 Febr.%
301 \or
302 M\protect\"arz%
303 \or
304 April%
305 \or
306 Mai%
307 \or
308 Juni%
309 \or
310 Juli%
311 \or
312 Aug.%
313 \or
314 Sept.%
315 \or
316 Okt.%
317 \or
318 Nov.%
319 \or
320 Dez.%
321 \fi
322 }
```

\DTMgermanweekdayname Provides weekday names

```
323 \newcommand*{\DTMgermanweekdayname}[1]{%
324    \ifcase#1
325    Montag%
326    \or
327    Dienstag%
328    \or
329    Mittwoch%
330    \or
331    Donnerstag%
332    \or
333    Freitag%
334    \or
335    Samstag%
336    \or
337    Sonntag%
338    \fi
339 }
```

`\DTMgermanshortweekdayname` Provides abbreviated weekday names

```
340 \newcommand*{\DTMgermanshortweekdayname}[1]{%
341  \ifcase#1
342  Mo%
343  \or
344  Di%
345  \or
346  Mi%
347  \or
348  Do%
349  \or
350  Fr%
351  \or
352  Sa%
353  \or
354  So%
355  \fi
356 }
```

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

Identify Module

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

Need to find out if X$_{\exists}$T$_{E}$X or LuaT$_{E}$X are being used.

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

X$_{\exists}$T$_{E}$X and LuaT$_{E}$X natively support UTF-8, so load german-utf8 if either of those engines are used otherwise load german-ascii.

```
359 \ifxetex
360  \RequireDateTimeModule{german-utf8}
361 \else
362  \ifluatex
363    \RequireDateTimeModule{german-utf8}
364  \else
365    \RequireDateTimeModule{german-ascii}
366  \fi
367 \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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

375 `\DTMdefkey{german}{dowdaysep}{\renewcommand*{\DTMgermandowdaysep}{#1}}`
376 `\DTMdefkey{german}{daymonthsep}{\renewcommand*{\DTMgermandaymonthsep}{#1}}`
377 `\DTMdefkey{german}{monthyearsep}{\renewcommand*{\DTMgermanmonthyearsep}{#1}}`
378 `\DTMdefkey{german}{datetimesep}{\renewcommand*{\DTMgermandatetimesep}{#1}}`
379 `\DTMdefkey{german}{timezonesep}{\renewcommand*{\DTMgermantimezonesep}{#1}}`
380 `\DTMdefkey{german}{datesep}{\renewcommand*{\DTMgermandatesep}{#1}}`
381 `\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.

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

The default is full name

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

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

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

The default is to use mappings.

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

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

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

The default is to show the day of month.

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

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

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

The default is to show the year.

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

Define the german style.

390 `\DTMnewstyle`
391 `  {german}% label`
392 `  {% date style`
393 `    \renewcommand*\DTMdisplaydate[4]{%`
394 `      \ifDTMshowdow`
395 `        \ifnum##4>-1`
396 `          \DTMifbool{german}{abbr}%`
397 `          {\DTMgermanshortweekdayname{##4}}%`
398 `          {\DTMgermanweekdayname{##4}}%`
399 `          \DTMgermandowdaysep`
400 `        \fi`
401 `      \fi`
402 `      %`
403 `      \DTMifbool{german}{showdayofmonth}%`
404 `      {\DTMgermanordinal{##3}\DTMgermandaymonthsep}%`
405 `      {}%`
406 `      %`
407 `      \DTMifbool{german}{abbr}%`

15

```
408      {\DTMgermanshortmonthname{##2}}%
409      {\DTMgermanmonthname{##2}}%
410      %
411      \DTMifbool{german}{showyear}%
412      {%
413        \DTMgermanmonthyearsep%
414        \DTMifbool{german}{abbr}%
415        {'\DTMtwodigits{##1}}%
416        {\number##1 }% space intended
417      }%
418      {}%
419    }%
420    \renewcommand*\DTMDisplaydate[4]{%
421      \ifDTMshowdow
422        \ifnum##4>-1
423          \DTMifbool{german}{abbr}%
424          {\DTMgermanshortweekdayname{##4}}%
425          {\DTMgermanweekdayname{##4}}%
426          \DTMgermandowdaysep
427        \fi
428      \fi
429      %
430      \DTMifbool{german}{showdayofmonth}%
431      {\DTMgermanordinal{##3}\DTMgermandaymonthsep}%
432      {}%
433      %
434      \DTMifbool{german}{abbr}%
435      {\DTMgermanshortmonthname{##2}}%
436      {\DTMgermanmonthname{##2}}%
437      %
438      \DTMifbool{german}{showyear}%
439      {%
440        \DTMgermanmonthyearsep%
441        \DTMifbool{german}{abbr}%
442        {'\DTMtwodigits{##1}}%
443        {\number##1 }% space intended
444      }%
445      {}%
446    }
447    }%
448 {% time style (use default)
449    \renewcommand*\DTMdisplaytime[3]{%
450      \DTMtwodigits{##1}%
451      \DTMgermantimesep\DTMtwodigits{##2}%
452      \ifDTMshowseconds\DTMgermantimesep\DTMtwodigits{##3}\fi
453    }%
454 }%
455 {% zone style
456    \DTMresetzones
457    \DTMgermanzonemaps
458    \renewcommand*{\DTMdisplayzone}[2]{%
459      \DTMifbool{german}{mapzone}%
460      {\DTMusezonemapordefault{##1}{##2}}%
461      {%
462        \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
463        \ifDTMshowzoneminutes\DTMgermantimesep\DTMtwodigits{##2}\fi
```

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```
464       }%
465     }%
466 }%
467 {% full style
468   \renewcommand*{\DTMdisplay}[9]{%
469     \ifDTMshowdate
470       \DTMdisplaydate{##1}{##2}{##3}{##4}%
471       \DTMgermandatetimesep
472     \fi
473     \DTMdisplaytime{##5}{##6}{##7}%
474     \ifDTMshowzone
475       \DTMgermantimezonesep
476       \DTMdisplayzone{##8}{##9}%
477     \fi
478   }%
479   \renewcommand*{\DTMDisplay}[9]{%
480     \ifDTMshowdate
481       \DTMDisplaydate{##1}{##2}{##3}{##4}%
482       \DTMgermandatetimesep
483     \fi
484     \DTMdisplaytime{##5}{##6}{##7}%
485     \ifDTMshowzone
486       \DTMgermantimezonesep
487       \DTMdisplayzone{##8}{##9}%
488     \fi
489   }%
490 }%
```

Define numeric style.

```
491 \DTMnewstyle
492 {german-numeric}% label
493 {% date style
494     \renewcommand*\DTMdisplaydate[4]{%
495       \ifDTMshowdow
496         \ifnum##4>-1
497           \DTMifbool{german}{abbr}%
498           {\DTMgermanshortweekdayname{##4}}%
499           {\DTMgermanweekdayname{##4}}%
500           \DTMgermandowdaysep
501         \fi
502       \fi
503       %
504       \DTMifbool{german}{showdayofmonth}%
505       {%
506         \DTMtwodigits{##3}%
507         \DTMgermandatesep
508       }%
509       {}%
510       \DTMtwodigits{##2}%
511       \DTMgermandatesep%
512       \DTMifbool{german}{showyear}%
513       {%
514         \DTMifbool{german}{abbr}%
515         {\DTMtwodigits{##1}}%
516         {\number##1 }% space intended
517       }%
518       {}%
```

```
519    }%
520    \renewcommand*{\DTMDisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
521 }%
522 {% time style
523    \renewcommand*\DTMdisplaytime[3]{%
524      \DTMtwodigits{##1}%
525      \DTMgermantimesep\DTMtwodigits{##2}%
526      \ifDTMshowseconds\DTMgermantimesep\DTMtwodigits{##3}\fi
527    }%
528 }%
529 {% zone style
530    \DTMresetzones
531    \DTMgermanzonemaps
532    \renewcommand*{\DTMdisplayzone}[2]{%
533      \DTMifbool{german}{mapzone}%
534      {\DTMusezonemapordefault{##1}{##2}}%
535      {%
536        \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
537        \ifDTMshowzoneminutes\DTMgermantimesep\DTMtwodigits{##2}\fi
538      }%
539    }%
540 }%
541 {% full style
542    \renewcommand*{\DTMdisplay}[9]{%
543      \ifDTMshowdate
544      \DTMdisplaydate{##1}{##2}{##3}{##4}%
545      \DTMgermandatetimesep
546      \fi
547      \DTMdisplaytime{##5}{##6}{##7}%
548      \ifDTMshowzone
549       \DTMgermantimezonesep
550       \DTMdisplayzone{##8}{##9}%
551      \fi
552    }%
553    \renewcommand*{\DTMDisplay}{\DTMdisplay}%
554 }
```

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

```
555 \newcommand*{\DTMgermanzonemaps}{%
556   \DTMdefzonemap{01}{00}{MEZ}%
557   \DTMdefzonemap{02}{00}{MESZ}%
558 }
```

Switch style according to the useregional setting.

```
559 \DTMifcaseregional
560 {}% do nothing
561 {\DTMsetstyle{german}}
562 {\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.)

```
563 \ifcsundef{date\CurrentTrackedDialect}
564 {%
565   \ifundef\dategerman
566   {% do nothing
567   }%
```

```
568  {%
569    \def\dategerman{%
570      \DTMifcaseregional
571      {}% do nothing
572      {\DTMsetstyle{german}}%
573      {\DTMsetstyle{german-numeric}}%
574    }%
575  }%
576 }%
577 {%
578   \csdef{date\CurrentTrackedDialect}{%
579     \DTMifcaseregional
580     {}% do nothing
581     {\DTMsetstyle{german}}%
582     {\DTMsetstyle{german-numeric}}
583   }%
584 }%
```

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

Identify Module

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

Require the basic German module

586 \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

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

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

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

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

589 \newcommand*{\DTMdeDEmonthyearsep}{\space}

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

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

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

591 \newcommand*{\DTMdeDEtimezonesep}{\space}

\DTMdeDEdatesep The separator for the numeric date format.

592 \newcommand*{\DTMdeDEdatesep}{.}

\DTMdeDEtimesep The separator for the numeric time format.

593 \newcommand*{\DTMdeDEtimesep}{:}

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

594 \DTMdefkey{de-DE}{dowdaysep}{\renewcommand*{\DTMdeDEdowdaysep}{#1}}
595 \DTMdefkey{de-DE}{daymonthsep}{\renewcommand*{\DTMdeDEdaymonthsep}{#1}}
596 \DTMdefkey{de-DE}{monthyearsep}{\renewcommand*{\DTMdeDEmonthyearsep}{#1}}
597 \DTMdefkey{de-DE}{datetimesep}{\renewcommand*{\DTMdeDEdatetimesep}{#1}}

```
598 \DTMdefkey{de-DE}{timezonesep}{\renewcommand*{\DTMdeDEtimezonesep}{#1}}
599 \DTMdefkey{de-DE}{datesep}{\renewcommand*{\DTMdeDEdatesep}{#1}}
600 \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.

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

The default is full name

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

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

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

The default is to use mappings.

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

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

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

The default is to show the day of month.

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

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

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

The default is to show the year.

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

Define the de-DE style

```
609 \DTMnewstyle
610 {de-DE}% label
611 {% date style
612   \renewcommand*\DTMdisplaydate[4]{%
613     \ifDTMshowdow
614       \ifnum##4>-1
615         \DTMifbool{de-DE}{abbr}%
616         {\DTMgermanshortweekdayname{##4}}%
617         {\DTMgermanweekdayname{##4}}%
618         \DTMdeDEdowdaysep
619       \fi
620     \fi
621     %
622     \DTMifbool{de-DE}{showdayofmonth}%
623     {\DTMgermanordinal{##3}\DTMdeDEdaymonthsep}%
624     {}%
625     %
626     \DTMifbool{de-DE}{abbr}%
627     {\DTMgermanshortmonthname{##2}}%
628     {\DTMgermanmonthname{##2}}%
629     %
630     \DTMifbool{de-DE}{showyear}%
631     {%
632       \DTMdeDEmonthyearsep%
633       \DTMifbool{de-DE}{abbr}%
634       {'\DTMtwodigits{##1}}%
635       {\number##1 }% space intended
636     }%
637     {}%
638   }%
```

```
639    \renewcommand*\DTMDisplaydate[4]{%
640      \ifDTMshowdow
641        \ifnum##4>-1
642          \DTMifbool{de-DE}{abbr}%
643          {\DTMgermanshortweekdayname{##4}}%
644          {\DTMgermanweekdayname{##4}}%
645          \DTMdeDEdowdaysep
646        \fi
647      \fi
648      %
649      \DTMifbool{de-DE}{showdayofmonth}%
650      {\DTMgermanordinal{##3}\DTMdeDEdaymonthsep}%
651      {}%
652      %
653      \DTMifbool{de-DE}{abbr}%
654      {\DTMgermanshortmonthname{##2}}%
655      {\DTMgermanmonthname{##2}}%
656      %
657      \DTMifbool{de-DE}{showyear}%
658      {%
659        \DTMdeDEmonthyearsep%
660        \DTMifbool{de-DE}{abbr}%
661        {'\DTMtwodigits{##1}}%
662        {\number##1 }% space intended
663      }%
664      {}%
665    }
666 }%
667 {% time style (use default)
668    \renewcommand*\DTMdisplaytime[3]{%
669      \DTMtwodigits{##1}%
670      \DTMdeDEtimesep\DTMtwodigits{##2}%
671      \ifDTMshowseconds\DTMdeDEtimesep\DTMtwodigits{##3}\fi
672    }%
673 }%
674 {% zone style
675    \DTMresetzones
676    \DTMgermanzonemaps
677    \renewcommand*{\DTMdisplayzone}[2]{%
678      \DTMifbool{de-DE}{mapzone}%
679      {\DTMusezonemapordefault{##1}{##2}}%
680      {%
681        \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
682        \ifDTMshowzoneminutes\DTMdeDEtimesep\DTMtwodigits{##2}\fi
683      }%
684    }%
685 }%
686 {% full style
687    \renewcommand*{\DTMdisplay}[9]{%
688      \ifDTMshowdate
689        \DTMdisplaydate{##1}{##2}{##3}{##4}%
690        \DTMdeDEdatetimesep
691      \fi
692      \DTMdisplaytime{##5}{##6}{##7}%
693      \ifDTMshowzone
694        \DTMdeDEtimezonesep
```

```
695       \DTMdisplayzone{##8}{##9}%
696     \fi
697   }%
698   \renewcommand*{\DTMDisplay}[9]{%
699     \ifDTMshowdate
700       \DTMDisplaydate{##1}{##2}{##3}{##4}%
701       \DTMdeDEdatetimesep
702     \fi
703     \DTMdisplaytime{##5}{##6}{##7}%
704     \ifDTMshowzone
705       \DTMdeDEtimezonesep
706       \DTMdisplayzone{##8}{##9}%
707     \fi
708   }%
709 }%
```

Define numeric style.

```
710 \DTMnewstyle
711 {de-DE-numeric}% label
712 {% date style
713   \renewcommand*\DTMdisplaydate[4]{%
714     \ifDTMshowdow
715       \ifnum##4>-1
716         \DTMifbool{de-DE}{abbr}%
717         {\DTMgermanshortweekdayname{##4}}%
718         {\DTMgermanweekdayname{##4}}%
719         \DTMdeDEdowdaysep
720       \fi
721     \fi
722     %
723     \DTMifbool{de-DE}{showdayofmonth}%
724     {%
725       \DTMtwodigits{##3}%
726       \DTMdeDEdatesep
727     }%
728     {}%
729     \DTMtwodigits{##2}%
730     \DTMdeDEdatesep%
731     \DTMifbool{de-DE}{showyear}%
732     {%
733       \DTMifbool{de-DE}{abbr}%
734       {\DTMtwodigits{##1}}%
735       {\number##1 }% space intended
736     }%
737     {}%
738   }%
739   \renewcommand*{\DTMDisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
740 }%
741 {% time style
742   \renewcommand*\DTMdisplaytime[3]{%
743     \DTMtwodigits{##1}%
744     \DTMdeDEtimesep\DTMtwodigits{##2}%
745     \ifDTMshowseconds\DTMdeDEtimesep\DTMtwodigits{##3}\fi
746   }%
747 }%
748 {% zone style
749   \DTMresetzones
```

```
750  \DTMgermanzonemaps
751  \renewcommand*{\DTMdisplayzone}[2]{%
752    \DTMifbool{de-DE}{mapzone}%
753    {\DTMusezonemapordefault{##1}{##2}}%
754    {%
755      \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
756      \ifDTMshowzoneminutes\DTMgermantimesep\DTMtwodigits{##2}\fi
757    }%
758  }%
759 }%
760 {% full style
761  \renewcommand*{\DTMdisplay}[9]{%
762    \ifDTMshowdate
763      \DTMdisplaydate{##1}{##2}{##3}{##4}%
764      \DTMdeDEdatetimesep
765    \fi
766    \DTMdisplaytime{##5}{##6}{##7}%
767    \ifDTMshowzone
768      \DTMdeDEtimezonesep
769      \DTMdisplayzone{##8}{##9}%
770    \fi
771  }%
772  \renewcommand*{\DTMDisplay}{\DTMdisplay}%
773 }
```

Switch style according to the useregional setting.

```
774 \DTMifcaseregional
775  {}% do nothing
776  {\DTMsetstyle{de-DE}}
777  {\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.)

```
778 \ifcsundef{date\CurrentTrackedDialect}
779 {%
780  \ifundef\dategerman
781  {% do nothing
782  }%
783  {%
784    \def\dategerman{%
785      \DTMifcaseregional
786      {}% do nothing
787      {\DTMsetstyle{german}}%
788      {\DTMsetstyle{german-numeric}}%
789    }%
790  }%
791 }%
792 {%
793  \csdef{date\CurrentTrackedDialect}{%
794    \DTMifcaseregional
795    {}% do nothing
796    {\DTMsetstyle{de-DE}}%
797    {\DTMsetstyle{de-DE-numeric}}
798  }%
799 }%
```

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

Identify Module

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

Require the basic German module

801 `\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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

809 `\DTMdefkey{de-AT}{dowdaysep}{\renewcommand*{\DTMdeATdowdaysep}{#1}}`
810 `\DTMdefkey{de-AT}{daymonthsep}{\renewcommand*{\DTMdeATdaymonthsep}{#1}}`
811 `\DTMdefkey{de-AT}{monthyearsep}{\renewcommand*{\DTMdeATmonthyearsep}{#1}}`
812 `\DTMdefkey{de-AT}{datetimesep}{\renewcommand*{\DTMdeATdatetimesep}{#1}}`
813 `\DTMdefkey{de-AT}{timezonesep}{\renewcommand*{\DTMdeATtimezonesep}{#1}}`
814 `\DTMdefkey{de-AT}{datesep}{\renewcommand*{\DTMdeATdatesep}{#1}}`
815 `\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.

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

The default is full name

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

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

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

The default is to use mappings.

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

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

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

The default is to show the day of month.

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

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

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

The default is to show the year.

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

Define the de-AT style

```
824 \DTMnewstyle
825 {de-AT}% label
826 {% date style
827   \renewcommand*\DTMdisplaydate[4]{%
828     \ifDTMshowdow
829       \ifnum##4>-1
830         \DTMifbool{de-AT}{abbr}%
831         {\DTMgermanshortweekdayname{##4}}%
832         {\DTMgermanweekdayname{##4}}%
833         \DTMdeATdowdaysep
834       \fi
835     \fi
836     %
837     \DTMifbool{de-AT}{showdayofmonth}%
838     {\DTMgermanordinal{##3}\DTMdeATdaymonthsep}%
839     {}%
840     %
841     \DTMifbool{de-AT}{abbr}%
842     {\DTMdeATshortmonthname{##2}}%
843     {\DTMdeATmonthname{##2}}%
844     %
845     \DTMifbool{de-AT}{showyear}%
846     {%
847       \DTMdeATmonthyearsep%
848       \number##1 % space intended
849     }%
850     {}%
851   }%
852   \renewcommand*\DTMDisplaydate[4]{%
853     \ifDTMshowdow
854       \ifnum##4>-1
855         \DTMifbool{de-AT}{abbr}%
856         {\DTMgermanshortweekdayname{##4}}%
857         {\DTMgermanweekdayname{##4}}%
858         \DTMdeATdowdaysep
859       \fi
860     \fi
861     %
862     \DTMifbool{de-AT}{showdayofmonth}%
863     {\DTMgermanordinal{##3}\DTMdeATdaymonthsep}%
864     {}%
865     %
866     \DTMifbool{de-AT}{abbr}%
867     {\DTMdeATshortmonthname{##2}}%
868     {\DTMdeATmonthname{##2}}%
869     %
870     \DTMifbool{de-AT}{showyear}%
871     {%
872       \DTMdeATmonthyearsep%
873       \number##1 % space intended
```

```
874      }%
875      {}%
876    }
877 }%
878 {% time style (use default)
879    \renewcommand*\DTMdisplaytime[3]{%
880      \DTMtwodigits{##1}%
881      \DTMdeATtimesep\DTMtwodigits{##2}%
882      \ifDTMshowseconds\DTMdeATtimesep\DTMtwodigits{##3}\fi
883    }%
884 }%
885 {% zone style
886    \DTMresetzones
887    \DTMgermanzonemaps
888    \renewcommand*{\DTMdisplayzone}[2]{%
889      \DTMifbool{de-AT}{mapzone}%
890      {\DTMusezonemapordefault{##1}{##2}}%
891      {%
892        \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
893        \ifDTMshowzoneminutes\DTMdeATtimesep\DTMtwodigits{##2}\fi
894      }%
895    }%
896 }%
897 {% full style
898    \renewcommand*{\DTMdisplay}[9]{%
899      \ifDTMshowdate
900        \DTMdisplaydate{##1}{##2}{##3}{##4}%
901        \DTMdeATdatetimesep
902      \fi
903      \DTMdisplaytime{##5}{##6}{##7}%
904      \ifDTMshowzone
905        \DTMdeATtimezonesep
906        \DTMdisplayzone{##8}{##9}%
907      \fi
908    }%
909    \renewcommand*{\DTMDisplay}[9]{%
910      \ifDTMshowdate
911        \DTMDisplaydate{##1}{##2}{##3}{##4}%
912        \DTMdeATdatetimesep
913      \fi
914      \DTMdisplaytime{##5}{##6}{##7}%
915      \ifDTMshowzone
916        \DTMdeATtimezonesep
917        \DTMdisplayzone{##8}{##9}%
918      \fi
919    }%
920 }%
```

Define numeric style.

```
921 \DTMnewstyle
922 {de-AT-numeric}% label
923 {% date style
924    \renewcommand*\DTMdisplaydate[4]{%
925      \DTMifbool{de-AT}{showyear}%
926      {%
927        \number##1 % space intended
928        \DTMdeATdatesep%
```

```
929     }%
930     {}%
931     %
932     \DTMtwodigits{##2}%
933     %
934     \DTMifbool{de-AT}{showdayofmonth}%
935     {%
936        \DTMdeATdatesep%
937        \DTMtwodigits{##3}%
938     }%
939     {}%
940   }%
941   \renewcommand*{\DTMDisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
942 }%
943 {% time style
944   \renewcommand*\DTMdisplaytime[3]{%
945     \DTMtwodigits{##1}%
946     \DTMdeATtimesep\DTMtwodigits{##2}%
947     \ifDTMshowseconds\DTMdeATtimesep\DTMtwodigits{##3}\fi
948   }%
949 }%
950 {% zone style
951   \DTMresetzones
952   \DTMgermanzonemaps
953   \renewcommand*{\DTMdisplayzone}[2]{%
954     \DTMifbool{de-AT}{mapzone}%
955     {\DTMusezonemapordefault{##1}{##2}}%
956     {%
957        \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
958        \ifDTMshowzoneminutes\DTMgermantimesep\DTMtwodigits{##2}\fi
959     }%
960   }%
961 }%
962 {% full style
963   \renewcommand*{\DTMdisplay}[9]{%
964     \ifDTMshowdate
965        \DTMdisplaydate{##1}{##2}{##3}{##4}%
966        \DTMdeATdatetimesep
967     \fi
968     \DTMdisplaytime{##5}{##6}{##7}%
969     \ifDTMshowzone
970        \DTMdeATtimezonesep
971        \DTMdisplayzone{##8}{##9}%
972     \fi
973   }%
974   \renewcommand*{\DTMDisplay}{\DTMdisplay}%
975 }
```

Switch style according to the useregional setting.

```
976 \DTMifcaseregional
977 {}% do nothing
978 {\DTMsetstyle{de-AT}}
979 {\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.)

```
980 \ifcsundef{date\CurrentTrackedDialect}
```

```
981 {%
982   \ifundef\dategerman
983   {% do nothing
984   }%
985   {%
986     \def\dategerman{%
987       \DTMifcaseregional
988       {}% do nothing
989       {\DTMsetstyle{german}}%
990       {\DTMsetstyle{german-numeric}}%
991     }%
992   }%
993 }%
994 {%
995   \csdef{date\CurrentTrackedDialect}{%
996     \DTMifcaseregional
997     {}% do nothing
998     {\DTMsetstyle{de-AT}}%
999     {\DTMsetstyle{de-AT-numeric}}
1000   }%
1001 }%
```

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

Identify Module

```
1002 \ProvidesDateTimeModule{de-CH}[2017/10/03 v2.0]
```

Require the basic German module

```
1003 \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

```
1004 \newcommand*{\DTMdeCHdowdaysep}{,\space}
```

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

```
1005 \newcommand*{\DTMdeCHdaymonthsep}{.\DTMtexorpdfstring{\protect~}{\space}}
```

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

```
1006 \newcommand*{\DTMdeCHmonthyearsep}{\space}
```

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

```
1007 \newcommand*{\DTMdeCHdatetimesep}{,\space}
```

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

```
1008 \newcommand*{\DTMdeCHtimezonesep}{\space}
```

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

```
1009 \newcommand*{\DTMdeCHdatesep}{.}
```

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

```
1010 \newcommand*{\DTMdeCHtimesep}{.}
```

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

```
1011 \DTMdefkey{de-CH}{dowdaysep}{\renewcommand*{\DTMdeCHdowdaysep}{#1}}
1012 \DTMdefkey{de-CH}{daymonthsep}{\renewcommand*{\DTMdeCHdaymonthsep}{#1}}
1013 \DTMdefkey{de-CH}{monthyearsep}{\renewcommand*{\DTMdeCHmonthyearsep}{#1}}
1014 \DTMdefkey{de-CH}{datetimesep}{\renewcommand*{\DTMdeCHdatetimesep}{#1}}
1015 \DTMdefkey{de-CH}{timezonesep}{\renewcommand*{\DTMdeCHtimezonesep}{#1}}
1016 \DTMdefkey{de-CH}{datesep}{\renewcommand*{\DTMdeCHdatesep}{#1}}
1017 \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.

```
1018 \DTMdefboolkey{de-CH}{abbr}[true]{}
```

The default is full name

```
1019 \DTMsetbool{de-CH}{abbr}{false}
```

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

```
1020 \DTMdefboolkey{de-CH}{mapzone}[true]{}
```

The default is to use mappings.

```
1021 \DTMsetbool{de-CH}{mapzone}{true}
```

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

```
1022 \DTMdefboolkey{de-CH}{showdayofmonth}[true]{}
```

The default is to show the day of month.

```
1023 \DTMsetbool{de-CH}{showdayofmonth}{true}
```

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

```
1024 \DTMdefboolkey{de-CH}{showyear}[true]{}
```

The default is to show the year.

```
1025 \DTMsetbool{de-CH}{showyear}{true}
```

Define the de-CH style

```
1026 \DTMnewstyle
1027 {de-CH}% label
1028 {% date style
1029   \renewcommand*\DTMdisplaydate[4]{%
1030     \ifDTMshowdow
1031       \ifnum##4>-1
1032         \DTMifbool{de-CH}{abbr}%
1033         {\DTMgermanshortweekdayname{##4}}%
1034         {\DTMgermanweekdayname{##4}}%
1035         \DTMdeCHdowdaysep
1036       \fi
1037     \fi
1038     %
1039     \DTMifbool{de-CH}{showdayofmonth}%
1040     {\DTMgermanordinal{##3}\DTMdeCHdaymonthsep}%
1041     {}%
1042     %
1043     \DTMifbool{de-CH}{abbr}%
1044     {\DTMdeCHshortmonthname{##2}}%
1045     {\DTMgermanmonthname{##2}}%
1046     %
1047     \DTMifbool{de-CH}{showyear}%
1048     {%
1049       \DTMdeCHmonthyearsep%
1050       \number##1 % space intended
```

```
1051      }%
1052    {}%
1053  }%
1054  \renewcommand*\DTMDisplaydate[4]{%
1055    \ifDTMshowdow
1056      \ifnum##4>-1
1057        \DTMifbool{de-CH}{abbr}%
1058        {\DTMgermanshortweekdayname{##4}}%
1059        {\DTMgermanweekdayname{##4}}%
1060        \DTMdeCHdowdaysep
1061      \fi
1062    \fi
1063    %
1064    \DTMifbool{de-CH}{showdayofmonth}%
1065    {\DTMgermanordinal{##3}\DTMdeCHdaymonthsep}%
1066    {}%
1067    %
1068    \DTMifbool{de-CH}{abbr}%
1069    {\DTMdeCHshortmonthname{##2}}%
1070    {\DTMgermanmonthname{##2}}%
1071    %
1072    \DTMifbool{de-CH}{showyear}%
1073    {%
1074      \DTMdeCHmonthyearsep%
1075      \number##1 % space intended
1076    }%
1077    {}%
1078  }
1079 }%
1080 {% time style (use default)
1081   \renewcommand*\DTMdisplaytime[3]{%
1082     \DTMtwodigits{##1}%
1083     \DTMdeCHtimesep\DTMtwodigits{##2}%
1084     \ifDTMshowseconds\DTMdeCHtimesep\DTMtwodigits{##3}\fi\space%
1085     Uhr%
1086   }%
1087 }%
1088 {% zone style
1089   \DTMresetzones
1090   \DTMgermanzonemaps
1091   \renewcommand*{\DTMdisplayzone}[2]{%
1092     \DTMifbool{de-CH}{mapzone}%
1093     {\DTMusezonemapordefault{##1}{##2}}%
1094     {%
1095       \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
1096         \ifDTMshowzoneminutes\DTMdeCHtimesep\DTMtwodigits{##2}\fi
1097     }%
1098   }%
1099 }%
1100 {% full style
1101   \renewcommand*{\DTMdisplay}[9]{%
1102     \ifDTMshowdate
1103       \DTMdisplaydate{##1}{##2}{##3}{##4}%
1104       \DTMdeCHdatetimesep
1105     \fi
1106     \DTMdisplaytime{##5}{##6}{##7}%
```

```
1107     \ifDTMshowzone
1108       \DTMdeCHtimezonesep
1109       \DTMdisplayzone{##8}{##9}%
1110     \fi
1111   }%
1112   \renewcommand*{\DTMDisplay}[9]{%
1113     \ifDTMshowdate
1114       \DTMDisplaydate{##1}{##2}{##3}{##4}%
1115       \DTMdeCHdatetimesep
1116     \fi
1117     \DTMdisplaytime{##5}{##6}{##7}%
1118     \ifDTMshowzone
1119       \DTMdeCHtimezonesep
1120       \DTMdisplayzone{##8}{##9}%
1121     \fi
1122   }%
1123 }%
```

 Define numeric style.

```
1124 \DTMnewstyle
1125 {de-CH-numeric}% label
1126 {% date style
1127   \renewcommand*\DTMdisplaydate[4]{%
1128     \ifDTMshowdow
1129       \ifnum##4>-1
1130         \DTMifbool{de-CH}{abbr}%
1131         {\DTMgermanshortweekdayname{##4}}%
1132         {\DTMgermanweekdayname{##4}}%
1133 \DTMdeCHdowdaysep
1134       \fi
1135     \fi
1136     %
1137     \DTMifbool{de-CH}{showdayofmonth}%
1138     {%
1139       \DTMtwodigits{##3}%
1140       \DTMdeCHdatesep
1141     }%
1142     {}%
1143     \DTMtwodigits{##2}%
1144     \DTMdeCHdatesep%
1145     \DTMifbool{de-CH}{showyear}%
1146     {%
1147       \number##1 % space intended
1148     }%
1149     {}%
1150   }%
1151   \renewcommand*{\DTMDisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
1152 }%
1153 {% time style
1154   \renewcommand*\DTMdisplaytime[3]{%
1155     \DTMtwodigits{##1}%
1156     \DTMdeCHtimesep\DTMtwodigits{##2}%
1157     \ifDTMshowseconds\DTMdeCHtimesep\DTMtwodigits{##3}\fi\space%
1158     Uhr%
1159   }%
1160 }%
1161 {% zone style
```

```
1162  \DTMresetzones
1163  \DTMgermanzonemaps
1164  \renewcommand*{\DTMdisplayzone}[2]{%
1165    \DTMifbool{de-CH}{mapzone}%
1166    {\DTMusezonemapordefault{##1}{##2}}%
1167    {%
1168      \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
1169      \ifDTMshowzoneminutes\DTMgermantimesep\DTMtwodigits{##2}\fi
1170    }%
1171  }%
1172 }%
1173 {% full style
1174   \renewcommand*{\DTMdisplay}[9]{%
1175     \ifDTMshowdate
1176       \DTMdisplaydate{##1}{##2}{##3}{##4}%
1177       \DTMdeCHdatetimesep
1178     \fi
1179     \DTMdisplaytime{##5}{##6}{##7}%
1180     \ifDTMshowzone
1181       \DTMdeCHtimezonesep
1182       \DTMdisplayzone{##8}{##9}%
1183     \fi
1184   }%
1185   \renewcommand*{\DTMDisplay}{\DTMdisplay}%
1186 }
```

Switch style according to the useregional setting.

```
1187 \DTMifcaseregional
1188 {}% do nothing
1189 {\DTMsetstyle{de-CH}}
1190 {\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.)

```
1191 \ifcsundef{date\CurrentTrackedDialect}
1192 {%
1193   \ifundef\dategerman
1194   {% do nothing
1195   }%
1196   {%
1197     \def\dategerman{%
1198       \DTMifcaseregional
1199       {}% do nothing
1200       {\DTMsetstyle{german}}%
1201       {\DTMsetstyle{german-numeric}}%
1202     }%
1203   }%
1204 }%
1205 {%
1206   \csdef{date\CurrentTrackedDialect}{%
1207     \DTMifcaseregional
1208     {}% do nothing
1209     {\DTMsetstyle{de-CH}}%
1210     {\DTMsetstyle{de-CH-numeric}}
1211   }%
1212 }%
```

Change History

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