

Finnish Module for datetime2 Package

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Abstract

This is the Finnish 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 only a regionless style.

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1 Introduction

This module defines the styles `finnish` and `finnish-numeric`. The `finnish` style will automatically be set if the `useregional` option is set to `text`, and the `finnish-numeric` style is automatically set if the `useregional` option is set to `numeric`.

There are a number of settings provided that can be used in `\DTMlangsetup` to modify the date-time style. These are:

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

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

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

datesep The separator between the date numbers in the `finnish-numeric` style. This defaults to `.` (period).

timesep The separator between the hours and minutes in both `finnish` and `finnish-numeric` styles. This defaults to `.` (period).

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

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

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

mapzone This is a boolean key. If `true` the time zone mappings are applied. (The default is `true`.) The `finnish` and `finnish-numeric` styles set the mappings EET (UTC+2) and EEST (UTC+3). Other time zone mappings that have previously been set (for example, by another regional style) will remain unchanged unless you redefine `\DTMresetzones` to reset or unset them.

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

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

The above settings are specific to this module. In addition, the `showdow` boolean option provided by the `datetime2` package is checked to determine whether or not to show the day of the week in the `finnish` style. The `showdate`, `showzone`, `showseconds` and `showzoneminutes` settings of `datetime2` are honoured.

2 The Code

2.1 UTF-8 (`datetime2-finnish-utf8.ldf`)

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

```
1 \ProvidesDateTimeModule{finnish-utf8}[2018/03/20 v1.2]
```

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

\DTMfinnishmonthname Finnish month names.
5 \newcommand*{\DTMfinnishmonthname}[1]{%
v1.1 separated partitive case from month names
6   \ifcase#1
7     \or
8     tammikuu%
9     \or
10    helmikuu%
11    \or
12    maaliskuu%
13    \or
14    huhtikuu%
15    \or
16    toukokuu%
17    \or
18    kesäkuu%
19    \or
20    heinäkuu%
21    \or
22    elokuu%
23    \or
24    syyskuu%
25    \or
26    lokakuu%
27    \or
28    marraskuu%
29    \or
```

```

30   joulukuu%
31   \fi
32 }

\DTMfinnishMonthname As above but capitalize.

33 \newcommand*{\DTMfinnishMonthname}[1]{%
v1.1 separated partitive case from month names

34   \ifcase#1
35   \or
36   Tammikuu%
37   \or
38   Helmikuu%
39   \or
40   Maaliskuu%
41   \or
42   Huhtikuu%
43   \or
44   Toukokuu%
45   \or
46   Kesäkuu%
47   \or
48   Heinäkuu%
49   \or
50   Elokuu%
51   \or
52   Syyskuu%
53   \or
54   Lokakuu%
55   \or
56   Marraskuu%
57   \or
58   Joulukuu%
59   \fi
60 }

```

Added support for abbreviations in v1.1.

```

\DTMfinnishshortmonthname Abbreviated Finnish month names.

61 \newcommand*{\DTMfinnishshortmonthname}[1]{%
62   \ifcase#1
63   \or
64   tammi%
65   \or
66   helmi%
67   \or
68   maalis%
69   \or
70   huhti%
71   \or

```

```
72  touko%
73  \or
74  kesä%
75  \or
76  heinä%
77  \or
78  elo%
79  \or
80  syys%
81  \or
82  loka%
83  \or
84  marras%
85  \or
86  joulu%
87  \fi
88 }
```

\DTMfinnishshortMonthname As above but capitalize.

```
89 \newcommand*{\DTMfinnishshortMonthname}[1]{%
```

```
90  \ifcase#1
91  \or
92  Tammi%
93  \or
94  Helmi%
95  \or
96  Maalis%
97  \or
98  Huhti%
99  \or
100 Touko%
101 \or
102 Kesä%
103 \or
104 Heinä%
105 \or
106 Elo%
107 \or
108 Syys%
109 \or
110 Loka%
111 \or
112 Marras%
113 \or
114 Joulu%
115 \fi
116 }
```

Added support for day of week names in v1.1.

```

\DTMfinnishweekdayname  Finnish day of week names.

117 \newcommand*{\DTMfinnishweekdayname}[1]{%
118   \ifcase#1
119     maanantai%
120   \or
121     tiistai%
122   \or
123     keskiviikko%
124   \or
125     torstai%
126   \or
127     perjantai%
128   \or
129     lauantai%
130   \or
131     sunnuntai%
132   \fi
133 }

```

```

\DTMfinnishWeekdayname As above but capitalize.

134 \newcommand*{\DTMfinnishWeekdayname}[1]{%
135   \ifcase#1
136     Maanantai%
137   \or
138     Tiistai%
139   \or
140     Keskiviikko%
141   \or
142     Torstai%
143   \or
144     Perjantai%
145   \or
146     Lauantai%
147   \or
148     Sunnuntai%
149   \fi
150 }

```

```

\DTMfinnishshortweekdayname Finnish abbreviated day of week names.

151 \newcommand*{\DTMfinnishshortweekdayname}[1]{%
152   \ifcase#1
153     ma%
154   \or
155     ti%
156   \or
157     ke%
158   \or

```

```

159  to%
160  \or
161  pe%
162  \or
163  la%
164  \or
165  su%
166  \fi
167 }

\DTMfinnishshortWeekdayname As above but capitalize.

168 \newcommand*{\DTMfinnishshortWeekdayname}[1]{%
169  \ifcase#1
170  Ma%
171  \or
172  Ti%
173  \or
174  Ke%
175  \or
176  To%
177  \or
178  Pe%
179  \or
180  La%
181  \or
182  Su%
183  \fi
184 }

```

2.2 ASCII (`datetime2-finnish-ascii.1df`)

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-finnish-utf8.1df` file as the non-ASCII characters are made active in that situation and would need protecting against expansion.

Identify module

```
185 \ProvidesDateTimeModule{finnish-ascii}[2018/03/20 v1.2]
```

```
\DTMfinnishordinal
186 \newcommand*{\DTMfinnishordinal}[1]{%
187  \number#1.%}
188 }
```

`\DTMfinnishmonthname` Finnish month names.

```
189 \newcommand*{\DTMfinnishmonthname}[1]{%
```

v1.1 separated partitive case from month names

```
190  \ifcase#1
191  \or
192  tammikuu%
193  \or
194  helmikuu%
195  \or
196  maaliskuu%
197  \or
198  huhtikuu%
199  \or
200  toukokuu%
201  \or
202  kes\protect\"akuu%
203  \or
204  hein\protect\"akuu%
205  \or
206  elokuu%
207  \or
208  syyskuu%
209  \or
210  lokakuu%
211  \or
212  marraskuu%
213  \or
214  joulukuu%
215  \fi
216 }
```

\DTMfinnishMonthname As above but capitalize.

```
217 \newcommand*{\DTMfinnishMonthname}[1]{%
v1.1 separated partitive case from month names
218  \ifcase#1
219  \or
220  Tammikuu%
221  \or
222  Helmikuu%
223  \or
224  Maaliskuu%
225  \or
226  Huhtikuu%
227  \or
228  Toukokuu%
229  \or
230  Kes\protect\"akuu%
231  \or
232  Hein\protect\"akuu%
233  \or
234  Elokuu%
```

```

235  \or
236  Syyskuu%
237  \or
238  Lokakuu%
239  \or
240  Marraskuu%
241  \or
242  Joulukuu%
243  \fi
244 }

```

Added support for abbreviations in v1.1.

\DTMfinnishshortmonthname Abbreviated Finnish month names.

```

245 \newcommand*{\DTMfinnishshortmonthname}[1]{%
246   \ifcase#1
247   \or
248   tammi%
249   \or
250   helmi%
251   \or
252   maalis%
253   \or
254   huhti%
255   \or
256   touko%
257   \or
258   kes\protect\"a%
259   \or
260   hein\protect\"a%
261   \or
262   elo%
263   \or
264   syys%
265   \or
266   loka%
267   \or
268   marras%
269   \or
270   joulu%
271   \fi
272 }

```

\DTMfinnishshortMonthname As above but capitalize.

```

273 \newcommand*{\DTMfinnishshortMonthname}[1]{%
274   \ifcase#1
275   \or
276   Tammi%

```

```

277  \or
278  Helmi%
279  \or
280  Maalis%
281  \or
282  Huhti%
283  \or
284  Touko%
285  \or
286  Kes\protect\"a%
287  \or
288  Hein\protect\"a%
289  \or
290  Elo%
291  \or
292  Syys%
293  \or
294  Loka%
295  \or
296  Marras%
297  \or
298  Joulu%
299  \fi
300 }

```

Added support for day of week names in v1.1.

```

\DTMfinnishweekdayname  Finnish day of week names.
301 \newcommand*{\DTMfinnishweekdayname}[1]{%
302  \ifcase#1
303  maanantai%
304  \or
305  tiistai%
306  \or
307  keskiviikko%
308  \or
309  torstai%
310  \or
311  perjantai%
312  \or
313  lauantai%
314  \or
315  sunnuntai%
316  \fi
317 }

```

```

\DTMfinnishWeekdayname  As above but capitalize.
318 \newcommand*{\DTMfinnishWeekdayname}[1]{%

```

```

319  \ifcase#1
320  Maanantai%
321  \or
322  Tiistai%
323  \or
324  Keskiviikko%
325  \or
326  Torstai%
327  \or
328  Perjantai%
329  \or
330  Lauantai%
331  \or
332  Sunnuntai%
333  \fi
334 }

```

\DTMfinnishshortweekdayname Finnish abbreviated day of week names.

```

335 \newcommand*{\DTMfinnishshortweekdayname}[1]{%
336  \ifcase#1
337  ma%
338  \or
339  ti%
340  \or
341  ke%
342  \or
343  to%
344  \or
345  pe%
346  \or
347  la%
348  \or
349  su%
350  \fi
351 }

```

\DTMfinnishshortWeekdayname As above but capitalize.

```

352 \newcommand*{\DTMfinnishshortWeekdayname}[1]{%
353  \ifcase#1
354  Ma%
355  \or
356  Ti%
357  \or
358  Ke%
359  \or
360  To%
361  \or
362  Pe%

```

```

363   \or
364   La%
365   \or
366   Su%
367   \fi
368 }

```

2.3 Main Finnish Module (`datetime2-finnish.ldf`)

Identify Module

```
369 \ProvidesDateTimeModule{finnish}[2018/03/20 v1.2]
```

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

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

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

```

371 \ifxetex
372   \RequireDateTimeModule{finnish-utf8}
373 \else
374   \ifluatex
375     \RequireDateTimeModule{finnish-utf8}
376   \else
377     \RequireDateTimeModule{finnish-ascii}
378   \fi
379 \fi

```

Define the `finnish` style. The time style is the same as the `default` style provided by `datetime2`.

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

`\DTMfinnishdowdaysep` The separator between the day of week name and the day of month number for the text format (v1.1).

```
380 \newcommand*{\DTMfinnishdowdaysep}{\space}
```

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

```

381 \newcommand*{\DTMfinnishdaymonthsep}{%
382   \DTMtexorpdfstring{\protect\~}{\space}%
383 }
```

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

```
384 \newcommand*{\DTMfinnishmonthyearsep}{\space}
```

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

```
385 \newcommand*{\DTMfinnishdatetimesep}{\space}
```

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

\DTMfinnishdatesep The separator for the numeric date format.
 387 \newcommand*\{\DTMfinnishdatesep\}{.}

\DTMfinnishtimesep The separator for the numeric time format.
 388 \newcommand*\{\DTMfinnishtimesep\}{.}

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

389 \DTMdefkey{finnish}{dowdaysep}{\renewcommand*\{\DTMfinnishdowdaysep\}{#1}}
 390 \DTMdefkey{finnish}{daymonthsep}{\renewcommand*\{\DTMfinnishdaymonthsep\}{#1}}
 391 \DTMdefkey{finnish}{monthyearsep}{\renewcommand*\{\DTMfinnishmonthyearsep\}{#1}}
 392 \DTMdefkey{finnish}{datetimesep}{\renewcommand*\{\DTMfinnishdatetimesep\}{#1}}
 393 \DTMdefkey{finnish}{timezonesep}{\renewcommand*\{\DTMfinnishtimezonesep\}{#1}}
 394 \DTMdefkey{finnish}{datesep}{\renewcommand*\{\DTMfinnishdatesep\}{#1}}
 395 \DTMdefkey{finnish}{timesep}{\renewcommand*\{\DTMfinnishtimesep\}{#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 (v1.1).

396 \DTMdefboolkey{finnish}{abbr}{true} {}

The default is the full name.

397 \DTMsetbool{finnish}{abbr}{false}

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

398 \DTMdefboolkey{finnish}{mapzone}{true} {}

The default is to use mappings.

399 \DTMsetbool{finnish}{mapzone}{true}

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

400 \DTMdefboolkey{finnish}{showdayofmonth}{true} {}

The default is to show the day of month.

401 \DTMsetbool{finnish}{showdayofmonth}{true}

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

402 \DTMdefboolkey{finnish}{showyear}{true} {}

The default is to show the year.

403 \DTMsetbool{finnish}{showyear}{true}

Define the finnish style.

404 \DTMnewstyle
 405 {finnish} % label
 406 { % date style
 407 \renewcommand*\DTMdisplaydate[4]{%

v1.1 separated partitive case from month names and added support for abbreviations and day of week

```

408      \ifDTMshowdow
409          \ifnum##4>-1
410              \DTMifbool{finnish}{abbr}%
411                  {\DTMfinnishshortweekdayname{##4}}%
412                  {\DTMfinnishweekdayname{##4}}%
413                  \DTMfinnishdowdaysep
414          \fi
415      \fi
416      \DTMifbool{finnish}{showdayofmonth}
417  {%
418      \DTMfinnishordinal{##3}\DTMfinnishdaymonthsep
419      \DTMifbool{finnish}{abbr}%
420          {\DTMfinnishshortmonthname{##2}}%
421          {\DTMfinnishmonthname{##2}ta}%
422  }%
423  {%
424      \DTMifbool{finnish}{abbr}%
425          {\DTMfinnishshortmonthname{##2}}%
426          {\DTMfinnishmonthname{##2}}%
427  }%
428  \DTMifbool{finnish}{showyear}
429  {%
430      \DTMfinnishmonthyearsep
431      \number##1 % space intended
432  }%
433  {%
434  }%
435  \renewcommand*\DTMDisplaydate[4]{%

```

v1.1 separated partitive case from month names and added support for abbreviations and day of week

```

436      \ifDTMshowdow
437          \ifnum##4>-1
438              \DTMifbool{finnish}{abbr}%
439                  {\DTMfinnishshortWeekdayname{##4}}%
440                  {\DTMfinnishWeekdayname{##4}}%
441                  \DTMfinnishdowdaysep
442          \fi
443          \DTMifbool{finnish}{showdayofmonth}
444  {%
445      \DTMfinnishordinal{##3}\DTMfinnishdaymonthsep
446      \DTMifbool{finnish}{abbr}%
447          {\DTMfinnishshortmonthname{##2}}%
448          {\DTMfinnishmonthname{##2}ta}%
449  }%
450  {%
451      \DTMifbool{finnish}{abbr}%
452          {\DTMfinnishshortmonthname{##2}}%

```

```

453     {\DTMfinnishmonthname{##2}}%
454   }%
455 \else
456   \DTMifbool{finnish}{showdayofmonth}
457   {%
458     \DTMfinnishordinal{##3}\DTMfinnishdaymonthsep
459     \DTMifbool{finnish}{abbr}%
460     {\DTMfinnishshortmonthname{##2}}%
461     {\DTMfinnishmonthname{##2}ta}%
462   }%
463   {%
464     \DTMifbool{finnish}{abbr}%
465     {\DTMfinnishshortMonthname{##2}}%
466     {\DTMfinnishMonthname{##2}}%
467   }%
468 \fi
469 \DTMifbool{finnish}{showyear}%
470 {%
471   \DTMfinnishmonthyearsep
472   \number##1 % space intended
473 }%
474 {}%
475 }%
476 }%
477 {%
478   \renewcommand*\DTMdisplaytime[3]{%
479     \number##1
480     \DTMfinnishtimesep\DTMtwodigits{##2}%
481     \ifDTMshowseconds\DTMfinnishtimesep\DTMtwodigits{##3}\fi
482   }%
483 }%
484 {%
485   \DTMresetzones
486   \DTMfinnishzonemaps
487   \renewcommand*{\DTMdisplayzone}[2]{%
488     \DTMifbool{finnish}{mapzone}%
489     {\DTMusezonemapordefault{##1}{##2}}%
490   }%
491   \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
492   \ifDTMshowzoneminutes\DTMfinnishtimesep\DTMtwodigits{##2}\fi
493 }%
494 }%
495 }%
496 {%
497   \renewcommand*{\DTMdisplay}[9]{%
498     \ifDTMshowdate
499     \DTMdisplaydate{##1}{##2}{##3}{##4}%
500     \DTMfinnishdatetimesep
501     \fi
502     \DTMdisplaytime{##5}{##6}{##7}%

```

```

503   \ifDTMshowzone
504     \DTMfinnishtimezonesep
505     \DTMdisplayzone{##8}{##9}%
506   \fi
507 }%
508 \renewcommand*{\DTMDisplay}[9]{%
509   \ifDTMshowdate
510     \DTMdisplaydate{##1}{##2}{##3}{##4}%
511     \DTMfinnishdatetimesep
512   \fi
513   \DTMdisplaytime{##5}{##6}{##7}%
514   \ifDTMshowzone
515     \DTMfinnishtimezonesep
516     \DTMdisplayzone{##8}{##9}%
517   \fi
518 }%
519 }%

```

Define numeric style.

```

520 \DTMnewstyle
521 {finnish-numeric}%
522 {%
523   \renewcommand*{\DTMdisplaydate}[4]{%
524     \DTMifbool{finnish}{showdayofmonth}%
525   }%
526   \number##3 % space intended
527   \DTMfinnishdatesep
528 }%
529 {}%
530 \number##2 % space intended
531 \DTMifbool{finnish}{showyear}%
532 {}%
533   \DTMfinnishdatesep
534   \number##1 % space intended
535 }%
536 {}%
537 }%
538 \renewcommand*{\DTMDisplaydate}{\DTMdisplaydate}%
539 }%
540 {%
541   \renewcommand*{\DTMdisplaytime}[3]{%
542     \number##1
543     \DTMfinnishtimesep\DTMtwodigits{##2}%
544     \ifDTMshowseconds\DTMfinnishtimesep\DTMtwodigits{##3}\fi
545   }%
546 }%
547 {%
548   \DTMresetzones
549   \DTMfinnishzonemaps
550   \renewcommand*{\DTMdisplayzone}[2]{%

```

```

551     \DTMifbool{finnish}{mapzone}%
552     {\DTMusezonemapordefault{\#1}{\#2}}%
553     {%
554         \ifnum##1<0\else+\fi\DTMtwodigits{\#1}%
555         \ifDTMshowzoneminutes\DTMfinnishessep\DTMtwodigits{\#2}\fi
556     }%
557   }%
558 }%
559 {%
560     \renewcommand*\{\DTMdisplay}[9]{%
561         \ifDTMshowdate
562             \DTMdisplaydate{\#1}{\#2}{\#3}{\#4}%
563             \DTMfinnishdatetimesep
564         \fi
565         \DTMdisplaytime{\#5}{\#6}{\#7}%
566         \ifDTMshowzone
567             \DTMfinnishtimezonesep
568             \DTMdisplayzone{\#8}{\#9}%
569         \fi
570     }%
571     \renewcommand*\{\DTMDisplay}{\DTMdisplay}%
572 }

```

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

```

573 \newcommand*\{\DTMfinnishzonemaps}{%
574     \DTMdefzonemap{02}{00}{EET}%
575     \DTMdefzonemap{03}{00}{EEST}%
576 }

```

Switch style according to the `useregional` setting.

```

577 \DTMifcaseregional
578 {}% do nothing
579 {\DTMsetstyle{finnish}}
580 {\DTMsetstyle{finnish-numeric}}

```

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

```

581 \ifcsundef{date\CurrentTrackedDialect}
582 {%
583     \ifundef{\datefinnish}
584     {}% do nothing
585   }%
586   {%
587     \def{\datefinnish}{%
588         \DTMifcaseregional
589         {}% do nothing
590         {\DTMsetstyle{finnish}}%
591         {\DTMsetstyle{finnish-numeric}}%
592     }%

```

```
593 }%
594 }%
595 {%
596 \csdef{date\CurrentTrackedDialect}{%
597 \DTMifcaseregional
598 {}% do nothing
599 {\DTMsetstyle{finnish}}%
600 {\DTMsetstyle{finnish-numeric}}%
601 }%
602 }%
```

Change History

1.0	
General: Initial release 3, 7, 12
1.1	
\DTMfinnishMonthname: fixed	... 4, 8
\DTMfinnishWeekdayname: new	6, 11
\DTMfinnishdowdaysep: new 12
\DTMfinnishmonthname: fixed	... 3, 8
\DTMfinnishshortMonthname:	
new 5, 9
\DTMfinnishshortWeekdayname:	
new 7, 11
1.2	
General: separated partitive case from month names and added support for abbreviations and day of week 3, 7, 12-14
General: fixed a bug with unwanted space 17

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