

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.

Contents

1 Introduction	2
2 The Code	3
2.1 UTF-8 (<code>datetime2-finnish-utf8.ldf</code>)	3
2.2 ASCII (<code>datetime2-finnish-ascii.ldf</code>)	7
2.3 Main Finnish Module (<code>datetime2-finnish.ldf</code>)	12
Change History	19
Index	19

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 `showdown` 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 joul%
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 Joul%
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.ldf`)

This file contains the settings that use \LaTeX commands for non-ASCII characters. This should be input if neither Xe \LaTeX nor Lua \LaTeX are used. Even if the user has loaded `inputenc` with `utf8`, this file should still be used not the `datetime2-finnish-utf8.ldf` 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.1df`)

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 \DTMtexpdfstring{\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     \ifDTMshowdown
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     \ifDTMshowdown
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 {% time style
478 \renewcommand*\DTMdisplaytime[3]{%
479     \number##1
480     \DTMfinnishtimesep\DTMtwdigits{##2}%
481     \ifDTMshowseconds\DTMfinnishtimesep\DTMtwdigits{##3}\fi
482 }%
483 }%
484 {% zone style
485 \DTMresetzones
486 \DTMfinnishzonemaps
487 \renewcommand*\DTMdisplayzone[2]{%
488     \DTMifbool{finnish}{mapzone}%
489     {\DTMusedzonemapordefault{##1}{##2}}%
490     {%
491         \ifnum##1<0\else+\fi\DTMtwdigits{##1}%
492         \ifDTMshowzoneminutes\DTMfinnishtimesep\DTMtwdigits{##2}\fi
493     }%
494 }%
495 }%
496 {% full style
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}% label
522 {% date style
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 {% time style
541 \renewcommand*\DTMdisplaytime[3]{%
542 \number##1
543 \DTMfinnishtimesep\DTMtwodigits{##2}%
544 \ifDTMshowseconds\DTMfinnishtimesep\DTMtwodigits{##3}\fi
545 }%
546 }%
547 {% zone style
548 \DTMresetzones
549 \DTMfinnishzonemaps
550 \renewcommand*\DTMdisplayzone}[2]{%

```



```

551 \DTMifbool{finnish}{mapzone}%
552 {\DTMusezonemapordefault{##1}{##2}}%
553 {%
554 \ifnum##1<0\else+\fi\DTMtwdigits{##1}%
555 \ifDTMshowzoneminutes\DTMfinnishtimesep\DTMtwdigits{##2}\fi
556 }%
557 }%
558 }%
559 {% full style
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	\DTMfinnishshortmonthname: new	4, 9
1.1	\DTMfinnishMonthname: fixed	4, 8	\DTMfinnishshortweekdayname: new	6, 11
	\DTMfinnishWeekdayname: new	6, 11	\DTMfinnishweekdayname: new	6, 10
	\DTMfinnishdowdaysep: new	12	General: separated partitive case from month names and added support for abbreviations and day of week	3, 7, 12–14
	\DTMfinnishmonthname: fixed	3, 8		
	\DTMfinnishshortMonthname: new	5, 9	1.2	
	\DTMfinnishshortWeekdayname: new	7, 11	General: fixed a bug with unwanted space	17

Index

A		\DTMfinnishWeekdayname	6, 10
abbr	2	\DTMfinnishweekdayname	6, 10
D		\DTMfinnishzonemaps	17
datesep	2	M	
datetimesep	2	mapzone	2
daymonthsep	2	monthyearsep	2
dowdaysep	2	S	
\DTMfinnishdatesep	13	showdate	3
\DTMfinnishdatetimesep	12	showdayofmonth	2
\DTMfinnishdaymonthsep	12	showdow	2, 3
\DTMfinnishdowdaysep	12	showseconds	3
\DTMfinnishMonthname	4, 8	showyear	2
\DTMfinnishmonthname	3, 7	showzone	3
\DTMfinnishmonthyearsep	12	showzoneminutes	3
\DTMfinnishordinal	3, 7	T	
\DTMfinnishshortMonthname	5, 9	timesep	2
\DTMfinnishshortmonthname	4, 9	timezonesep	2
\DTMfinnishshortWeekdayname	7, 11	U	
\DTMfinnishshortweekdayname	6, 11	useregional	1, 2, 17
\DTMfinnishtimesep	13		
\DTMfinnishtimezonesep	13		