

!TeX program = xelatex

# Ukrainian Module for datetime2 Package

Nicola L. C. Talbot (inactive)  
Sergiy M. Ponomarenko

2017-06-11 (v1.1)

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

## Abstract

This is the Ukrainian 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 `datetime2useregional` setting must be set to `text` or `numeric` for the language styles to be set. Alternatively, you can set the style in the document using `\DTMsetstyle`, but this may be changed by `\date{language}` depending on the value of the `useregional` setting.

I've copied the date style from `babel-ukrainian`'s `\today`.

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

The new maintainer should add the line:

The Current Maintainer of this work is Name.

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

Currently there is only a regionless style.

## 1 The Code

### 1.1 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

```
1 \ProvidesDateTimeModule{ukrainian-utf8}[2017/06/11 v1.1]
```

```

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

\DTMukrainianyear
5 \newcommand*{\DTMukrainianyear}[1]{%
6   \number#1
7   \DTMtexorpdfstring{\protect~}{\space}p.%
8 }

\DTMukrainianmonthname Ukrainian month names.
9 \newcommand*{\DTMukrainianmonthname}[1]{%
10  \ifcase#1
11    \or
12    січня%
13    \or
14    лютого%
15    \or
16    березня%
17    \or
18    квітня%
19    \or
20    травня%
21    \or
22    червня%
23    \or
24    липня%
25    \or
26    серпня%
27    \or
28    вересня%
29    \or
30    жовтня%
31    \or
32    листопада%
33    \or
34    грудня%
35    \fi
36 }

\DTMukrainianMonthname As above but capitalize.
37 \newcommand*{\DTMukrainianMonthname}[1]{%
38  \ifcase#1
39    \or
40    Січня%
41    \or
42    Лютого%
43    \or

```

```

44  Березня%
45  \ог
46  Квітня%
47  \ог
48  Травня%
49  \ог
50  Червня%
51  \ог
52  Липня%
53  \ог
54  Серпня%
55  \ог
56  Вересня%
57  \ог
58  Жовтня%
59  \ог
60  Листопада%
61  \ог
62  Грудня%
63  \fi
64 }

```

```

\DTMukrainianshortmonthname Abbreviated Ukrainian month names.
65 \newcommand*{\DTMukrainianshortmonthname}[1]{%
66  \ifcase#1
67  \ог
68  січ.%
69  \ог
70  лют.%
71  \ог
72  бер.%
73  \ог
74  квіт.%
75  \ог
76  трав%
77  \ог
78  черв.%
79  \ог
80  лип.%
81  \ог
82  серп.%
83  \ог
84  вер.%
85  \ог
86  жовт.%
87  \ог
88  листоп.%
89  \ог
90  груд.%
91  \fi

```

```

92 }

\DTMukrainianshortMonthname As above but start with a capital.
93 \newcommand*{\DTMukrainianshortMonthname}[1]{%
94   \ifcase#1
95   \or
96   Січ.%
97   \or
98   Лют.%
99   \or
100  Бер.%
101  \or
102  Квіт.%
103  \or
104  Трав%
105  \or
106  Черв.%
107  \or
108  Лип.%
109  \or
110  Серп.%
111  \or
112  Вер.%
113  \or
114  Жовт.%
115  \or
116  Листоп.%
117  \or
118  Груд.%
119  \fi
120 }

\DTMukrainianweekdayname Ukrainian day of week names.
121 \newcommand*{\DTMukrainianweekdayname}[1]{%
122   \ifcase#1
123   понеділок%
124   \or
125   вівторок%
126   \or
127   середа%
128   \or
129   четвер%
130   \or
131   п'ятниця%
132   \or
133   субота%
134   \or
135   неділя%
136   \fi
137 }

```

```

\DTMukrainianWeekdayname  As above but start with a capital.
138 \newcommand*{\DTMukrainianWeekdayname}[1]{%
139   \ifcase#1
140   Понеділок%
141   \or
142   Вівторок%
143   \or
144   Середа%
145   \or
146   Четвер%
147   \or
148   П'ятниця%
149   \or
150   Субота%
151   \or
152   Неділя%
153   \fi
154 }

```

```

\DTMukrainianshortweekdayname  Abbreviated Romanian day of week names.
155 \newcommand*{\DTMukrainianshortweekdayname}[1]{%
156   \ifcase#1
157   пн.%
158   \or
159   вт.%
160   \or
161   ср.%
162   \or
163   чт%
164   \or
165   пт.%
166   \or
167   сб.%
168   \or
169   нд.%
170   \fi
171 }

```

```

\DTMukrainianshortWeekdayname  As above but start with a capital.
172 \newcommand*{\DTMukrainianshortWeekdayname}[1]{%
173   \ifcase#1
174   Пн.%
175   \or
176   Вт.%
177   \or
178   Ср.%
179   \or
180   Чт%
181   \or

```

```

182  Пт.%
183  \or
184  Сб.%
185  \or
186  Нд.%
187  \fi
188 }

```

## 1.2 ASCII

This file contains the settings that use L<sup>A</sup>T<sub>E</sub>X 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-ukrainian-utf8.ldf file as the non-ASCII characters are made active in that situation and would need protecting against expansion. Identify module

```
189 \ProvidesDateTimeModule{ukrainian-ascii}[2015/04/01 v1.0]
```

If abbreviated dates are supported, short month names should be likewise provided.

```
\DTMukrainianordinal
```

```

190 \newcommand*{\DTMukrainianordinal}[1]{%
191   \number#1
192 }

```

```
\DTMukrainianyear
```

```

193 \newcommand*{\DTMukrainianyear}[1]{%
194   \number#1
195   \DTMtexpdfstring{\protect~}{\space}\protect\cyrr.%
196 }

```

```
\DTMukrainianmonthname Ukrainian month names.
```

```

197 \newcommand*{\DTMukrainianmonthname}[1]{%
198   \ifcase#1
199   \or
200   \protect\cyrs\protect\cyrii\protect\cyrch\protect\cyrn\protect\cyrya
201   \or
202   \protect\cyrl\protect\cyryu\protect\cyrt\protect\cyro\protect\cyrg
203   \protect\cyro
204   \or
205   \protect\cyrb\protect\cyre\protect\cyrr\protect\cyre\protect\cyrz
206   \protect\cyrn\protect\cyrya
207   \or
208   \protect\cyrk\protect\cyrv\protect\cyrii\protect\cyrt\protect\cyrn
209   \protect\cyrya
210   \or
211   \protect\cyrt\protect\cyrr\protect\cyra\protect\cyrv\protect\cyrn
212   \protect\cyrya
213   \or

```

```

214 \protect\cyrch\protect\cyre\protect\cyrr\protect\cyrv\protect\cyrn
215 \protect\cyrya
216 \or
217 \protect\cyrl\protect\cyri\protect\cyrp\protect\cyrn\protect\cyrya
218 \or
219 \protect\cyrs\protect\cyre\protect\cyrr\protect\cyrp\protect\cyrn
220 \protect\cyrya
221 \or
222 \protect\cyrv\protect\cyre\protect\cyrr\protect\cyre\protect\cyrs
223 \protect\cyrn\protect\cyrya
224 \or
225 \protect\cyrrh\protect\cyro\protect\cyrv\protect\cyrt\protect\cyrn
226 \protect\cyrya
227 \or
228 \protect\cyrl\protect\cyri\protect\cyrs\protect\cyrt\protect\cyro
229 \protect\cyrp\protect\cyra\protect\cyrd\protect\cyra
230 \or
231 \protect\cyrg\protect\cyrr\protect\cyru\protect\cyrd\protect\cyrn
232 \protect\cyrya
233 \fi
234 }

```

\DTMukrainianMonthname As above but start with a capital.

```

235 \newcommand*{\DTMukrainianMonthname}[1]{%
236 \ifcase#1
237 \or
238 \protect\CYRS\protect\cyrii\protect\cyrch\protect\cyrn\protect\cyrya
239 \or
240 \protect\CYRL\protect\cyryu\protect\cyrt\protect\cyro\protect\cyrg
241 \protect\cyro
242 \or
243 \protect\CYRB\protect\cyre\protect\cyrr\protect\cyre\protect\cyrz
244 \protect\cyrn\protect\cyrya
245 \or
246 \protect\CYRK\protect\cyrv\protect\cyrii\protect\cyrt\protect\cyrn
247 \protect\cyrya
248 \or
249 \protect\CYRT\protect\cyrr\protect\cyra\protect\cyrv\protect\cyrn
250 \protect\cyrya
251 \or
252 \protect\CYRCH\protect\cyre\protect\cyrr\protect\cyrv\protect\cyrn
253 \protect\cyrya
254 \or
255 \protect\CYRL\protect\cyri\protect\cyrp\protect\cyrn\protect\cyrya
256 \or
257 \protect\CYRS\protect\cyre\protect\cyrr\protect\cyrp\protect\cyrn
258 \protect\cyrya
259 \or
260 \protect\CYRV\protect\cyre\protect\cyrr\protect\cyre\protect\cyrs
261 \protect\cyrn\protect\cyrya

```

```

262 \or
263 \protect\CYRZH\protect\cyro\protect\cyrv\protect\cyrt\protect\cyrn
264 \protect\cyrya
265 \or
266 \protect\CYRL\protect\cyri\protect\cyrs\protect\cyrt\protect\cyro
267 \protect\cyrp\protect\cyra\protect\cyrd\protect\cyra
268 \or
269 \protect\CYRG\protect\cyrr\protect\cyru\protect\cyrd\protect\cyrn
270 \protect\cyrya
271 \fi
272 }

```

\DTMukrainianshortmonthname Abbreviated Ukrainian month names.

```

273 \newcommand*{\DTMukrainianshortmonthname}[1]{%
274 \ifcase#1
275 \or
276 \protect\cyrs\protect\cyrii\protect\cyrch.
277 \or
278 \protect\cyrl\protect\cyryu\protect\cyrt.
279 \or
280 \protect\cyrb\protect\cyre\protect\cyrr.
281 \or
282 \protect\cyrk\protect\cyrv\protect\cyrii\protect\cyrt.
283 \or
284 \protect\cyrt\protect\cyrr\protect\cyra\protect\cyrv.
285 \or
286 \protect\cyrch\protect\cyre\protect\cyrr\protect\cyrv.
287 \or
288 \protect\cyrl\protect\cyri\protect\cyrp.
289 \or
290 \protect\cyrs\protect\cyre\protect\cyrr\protect\cyrp.
291 \or
292 \protect\cyrv\protect\cyre\protect\cyrr.
293 \or
294 \protect\cyrzh\protect\cyro\protect\cyrv\protect\cyrt.
295 \or
296 \protect\cyrl\protect\cyri\protect\cyrs\protect\cyrt\protect\cyro
297 \protect\cyrp.
298 \or
299 \protect\cyrg\protect\cyrr\protect\cyru\protect\cyrd.
300 \fi
301 }

```

\DTMukrainianshortMonthname As above but start with a capital.

```

302 \newcommand*{\DTMukrainianshortMonthname}[1]{%
303 \ifcase#1
304 \or
305 \protect\CYRS\protect\cyrii\protect\cyrch.
306 \or
307 \protect\CYRL\protect\cyryu\protect\cyrt.

```

```

308 \or
309 \protect\CYRB\protect\cyre\protect\cyrr.
310 \or
311 \protect\CYRK\protect\cyrv\protect\cyrii\protect\cyrt.
312 \or
313 \protect\CYRT\protect\cyrr\protect\cyra\protect\cyrv.
314 \or
315 \protect\CYRCH\protect\cyre\protect\cyrr\protect\cyrv.
316 \or
317 \protect\CYRL\protect\cyri\protect\cyrp.
318 \or
319 \protect\CYRS\protect\cyre\protect\cyrr\protect\cyrp.
320 \or
321 \protect\CYRV\protect\cyre\protect\cyrr.
322 \or
323 \protect\CYRZH\protect\cyro\protect\cyrv\protect\cyrt.
324 \or
325 \protect\CYRL\protect\cyri\protect\cyrp\protect\cyrt\protect\cyro
326 \protect\cyrp.
327 \or
328 \protect\CYRG\protect\cyrr\protect\cyru\protect\cyrd.
329 \fi
330 }

```

\DTMukrainianweekdayname Ukrainian day of week names.

```

331 \newcommand*{\DTMukrainianweekdayname}[1]{%
332 \ifcase#1
333 \protect\cyrp\protect\cyro\protect\cyrn\protect\cyre\protect\cyrd\protect\cyrii\protect\cyrp\
334 \or
335 \protect\cyrv\protect\cyrii\protect\cyrv\protect\cyrt\protect\cyro\protect\cyrr\protect\cyro\
336 \or
337 \protect\cyrp\protect\cyre\protect\cyrr\protect\cyre\protect\cyrd\protect\cyra%
338 \or
339 \protect\cyrch\protect\cyre\protect\cyrt\protect\cyrv\protect\cyre\protect\cyrr%
340 \or
341 \protect\cyrp'\protect\cyrya\protect\cyrt\protect\cyrn\protect\cyri\protect\cyrp\protect\cyry
342 \or
343 \protect\cyrp\protect\cyru\protect\cyrb\protect\cyro\protect\cyrt\protect\cyra%
344 \or
345 \protect\cyrn\protect\cyre\protect\cyrd\protect\cyrii\protect\cyrp\protect\cyrya%
346 \fi
347 }

```

\DTMukrainianWeekdayname As above but start with a capital.

```

348 \newcommand*{\DTMukrainianWeekdayname}[1]{%
349 \ifcase#1
350 \protect\CYRP\protect\cyro\protect\cyrn\protect\cyre\protect\cyrd\protect\cyrii\protect\cyrp\
351 \or
352 \protect\CYRV\protect\cyrii\protect\cyrv\protect\cyrt\protect\cyro\protect\cyrr\protect\cyro\
353 \or

```

```

354 \protect\CYRS\protect\cyre\protect\cyrr\protect\cyre\protect\cyrd\protect\cyra%
355 \or
356 \protect\CYRCH\protect\cyre\protect\cyrt\protect\cyrv\protect\cyre\protect\cyrr%
357 \or
358 \protect\CYRP'\protect\cyrya\protect\cyrt\protect\cyrn\protect\cyri\protect\cyrc\protect\cyr%
359 \or
360 \protect\CYRS\protect\cyru\protect\cyrb\protect\cyro\protect\cyrt\protect\cyra%
361 \or
362 \protect\CYRN\protect\cyre\protect\cyrd\protect\cyrii\protect\cyrl\protect\cyrya%
363 \fi
364 }

```

\DTMukrainianshortweekdayname Abbreviated Ukrainian day of week names.

```

365 \newcommand*{\DTMukrainianshortweekdayname}[1]{%
366 \ifcase#1
367 \protect\cyrp\protect\cyrn.%
368 \or
369 \protect\cyrv\protect\cyrt.%
370 \or
371 \protect\cyrs\protect\cyrr.%
372 \or
373 \protect\cyrch\protect\cyrt%
374 \or
375 \protect\cyrp\protect\cyrt.%
376 \or
377 \protect\cyrs\protect\cyrb.%
378 \or
379 \protect\cyrn\protect\cyrd.%
380 \fi
381 }

```

\DTMukrainianshortWeekdayname As above but start with a capital.

```

382 \newcommand*{\DTMukrainianshortWeekdayname}[1]{%
383 \ifcase#1
384 \protect\CYRP\protect\cyrn.%
385 \or
386 \protect\CYRV\protect\cyrt.%
387 \or
388 \protect\CYRS\protect\cyrr.%
389 \or
390 \protect\CYRCH\protect\cyrt.%
391 \or
392 \protect\CYRP\protect\cyrt.%
393 \or
394 \protect\CYRS\protect\cyrb.%
395 \or
396 \protect\CYRN\protect\cyrd.%
397 \fi
398 }

```

### 1.3 Main Ukrainian Module (`datetime2-ukrainian.1df`)

Identify Module

```
399 \ProvidesDateTimeModule{ukrainian}[2017/06/11 v1.1]
```

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

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

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

```
401 \ifxetex
```

```
402 \RequireDateTimeModule{ukrainian-utf8}
```

```
403 \else
```

```
404 \ifluatex
```

```
405 \RequireDateTimeModule{ukrainian-utf8}
```

```
406 \else
```

```
407 \RequireDateTimeModule{ukrainian-ascii}
```

```
408 \fi
```

```
409 \fi
```

Define the `ukrainian` style. The time style is the same as the `default` style provided by `datetime2`. This may need correcting. For example, if a 12 hour style similar to the `englishampm` (from the `english-base` module) is required.

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

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

```
410 \newcommand*{\DTMukrainiandaymonthsep}{%
```

```
411 \DTMtexpdfstring{\protect~}{\space}}
```

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

```
412 \newcommand*{\DTMukrainianmonthyearsep}{\space}
```

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

```
413 \newcommand*{\DTMukrainiandatetimesep}{\space}
```

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

```
414 \newcommand*{\DTMukrainiantimezonesep}{\space}
```

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

```
415 \newcommand*{\DTMukrainiandatesep}{.}
```

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

```
416 \newcommand*{\DTMukrainiantimesep}{:}
```

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

```
417 \DTMdefkey{ukrainian}{daymonthsep}{\renewcommand*\DTMukrainiandaymonthsep}{#1}}
418 \DTMdefkey{ukrainian}{monthyearsep}{\renewcommand*\DTMukrainianmonthyearsep}{#1}}
419 \DTMdefkey{ukrainian}{datetimesep}{\renewcommand*\DTMukrainiandatetimesep}{#1}}
420 \DTMdefkey{ukrainian}{timezonesep}{\renewcommand*\DTMukrainiantimezonesep}{#1}}
421 \DTMdefkey{ukrainian}{datesep}{\renewcommand*\DTMukrainiandatesep}{#1}}
422 \DTMdefkey{ukrainian}{timesep}{\renewcommand*\DTMukrainiantimesep}{#1}}
```

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

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

```
423 \DTMdefboolkey{ukrainian}{mapzone}[true]{}

```

The default is to use mappings.

```
424 \DTMsetbool{ukrainian}{mapzone}{true}

```

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

```
425 \DTMdefboolkey{ukrainian}{showdayofmonth}[true]{}

```

The default is to show the day of month.

```
426 \DTMsetbool{ukrainian}{showdayofmonth}{true}

```

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

```
427 \DTMdefboolkey{ukrainian}{showyear}[true]{}

```

The default is to show the year.

```
428 \DTMsetbool{ukrainian}{showyear}{true}

```

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

```
429 \DTMnewstyle
430 {ukrainian}% label
431 {% date style
432   \renewcommand*\DTMdisplaydate[4]{%
433     \DTMifbool{ukrainian}{showdayofmonth}
434     {\DTMukrainianordinal{##3}\DTMukrainiandaymonthsep}%
435     }%
436     \DTMukrainianmonthname{##2}%
437     \DTMifbool{ukrainian}{showyear}%
438     {%
439       \DTMukrainianmonthyearsep
440       \DTMukrainianyear{##1}%
441     }%
442   }%
443 }%
444 \renewcommand*\DTMDisplaydate[4]{%
445   \DTMifbool{ukrainian}{showdayofmonth}
446   {%
447     \DTMukrainianordinal{##3}\DTMukrainiandaymonthsep
448     \DTMukrainianmonthname{##2}%
449   }%
450   {%
```

```

451     \DTMukrainianMonthname{##2}%
452 }%
453     \DTMifbool{ukrainian}{showyear}%
454 {%
455     \DTMukrainianmonthyearsep
456     \DTMukrainianyear{##1}%
457 }%
458 {}%
459 }%
460 }%
461 {% time style (use default)
462     \DTMsettimestyle{default}%
463 }%
464 {% zone style
465     \DTMresetzones
466     \DTMukrainianzonemaps
467     \renewcommand*{\DTMdisplayzone}[2]{%
468         \DTMifbool{ukrainian}{mapzone}%
469         {\DTMusedzonemapordefault{##1}{##2}}%
470     {%
471         \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
472         \ifDTMshowzoneminutes\DTMukrainiantimesep\DTMtwodigits{##2}\fi
473     }%
474 }%
475 }%
476 {% full style
477     \renewcommand*{\DTMdisplay}[9]{%
478         \ifDTMshowdate
479             \DTMdisplaydate{##1}{##2}{##3}{##4}%
480             \DTMukrainiandatetimesep
481             \fi
482             \DTMdisplaytime{##5}{##6}{##7}%
483             \ifDTMshowzone
484                 \DTMukrainiantimezonesep
485                 \DTMdisplayzone{##8}{##9}%
486             \fi
487         }%
488     \renewcommand*{\DTMDisplay}[9]{%
489         \ifDTMshowdate
490             \DTMDisplaydate{##1}{##2}{##3}{##4}%
491             \DTMukrainiandatetimesep
492             \fi
493             \DTMdisplaytime{##5}{##6}{##7}%
494             \ifDTMshowzone
495                 \DTMukrainiantimezonesep
496                 \DTMdisplayzone{##8}{##9}%
497             \fi
498         }%
499     }%

```

Define numeric style.

```

500 \DTMnewstyle
501 {ukrainian-numeric}% label
502 {% date style
503   \renewcommand*\DTMdisplaydate[4]{%
504     \DTMifbool{ukrainian}{showdayofmonth}%
505     {%
506       \number##3 % space intended
507       \DTMukrainiandatesep
508     }%
509     {%
510       \number##2 % space intended
511       \DTMifbool{ukrainian}{showyear}%
512       {%
513         \DTMukrainiandatesep
514         \number##1 % space intended
515       }%
516     }%
517   }%
518   \renewcommand*\DTMdisplaydate[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
519 }%
520 {% time style
521   \renewcommand*\DTMdisplaytime[3]{%
522     \number##1
523     \DTMukrainiantimesep\DTMtwodigits{##2}%
524     \ifDTMshowseconds\DTMukrainiantimesep\DTMtwodigits{##3}\fi
525   }%
526 }%
527 {% zone style
528   \DTMresetzones
529   \DTMukrainianzonemaps
530   \renewcommand*\DTMdisplayzone[2]{%
531     \DTMifbool{ukrainian}{mapzone}%
532     {\DTMuseumaportdefault{##1}{##2}}%
533     {%
534       \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
535       \ifDTMshowzoneminutes\DTMukrainiantimesep\DTMtwodigits{##2}\fi
536     }%
537   }%
538 }%
539 {% full style
540   \renewcommand*\DTMdisplay[9]{%
541     \ifDTMshowdate
542       \DTMdisplaydate{##1}{##2}{##3}{##4}%
543       \DTMukrainiandatetimesep
544     \fi
545     \DTMdisplaytime{##5}{##6}{##7}%
546     \ifDTMshowzone
547       \DTMukrainiantimezonesep

```

```

548     \DTMdisplayzone{##8}{##9}%
549     \fi
550   }%
551   \renewcommand*{\DTMDisplay}{\DTMdisplay}%
552 }

```

`\DTMukrainianzonemaps` The time zone mappings are set through this command, which can be redefined if extra mappings are required or mappings need to be removed. These may need translating (in which case the definitions might need to be moved to the `utf8` and `ascii` ldf files).

```

553 \newcommand*{\DTMukrainianzonemaps}{%
554   \DTMdefzonemap{02}{00}{EET}%
555   \DTMdefzonemap{03}{00}{EEST}%
556 }

```

Switch style according to the `useregional` setting.

```

557 \DTMifcaseregional
558 {}% do nothing
559 {\DTMsetstyle{ukrainian}}
560 {\DTMsetstyle{ukrainian-numeric}}

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

561 \ifcsundef{date\CurrentTrackedDialect}
562 {%
563   \ifundef\dateukrainian
564   {}% do nothing
565   }%
566   {%
567     \def\dateukrainian{%
568       \DTMifcaseregional
569       {}% do nothing
570       {\DTMsetstyle{ukrainian}}%
571       {\DTMsetstyle{ukrainian-numeric}}%
572     }%
573   }%
574 }%
575 {%
576   \csdef{date\CurrentTrackedDialect}{%
577     \DTMifcaseregional
578     {}% do nothing
579     {\DTMsetstyle{ukrainian}}%
580     {\DTMsetstyle{ukrainian-numeric}}
581   }%
582 }%

```