

# Ukrainian Module for `datetime2` Package

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### 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 `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 `\dateukrainian` depending on the value of the `useregional` setting.

## 1 Usage

### 1.1 LATEX

When user's document is compiled with `latex.exe` or `pdflatex.exe`, recommended set of packages includes the `inputenc` and `fontenc` packages.

```
\usepackage[T1,T2A]{fontenc}
\usepackage[utf8]{inputenc}
\usepackage[english,ukrainian]{babel}
\usepackage[useregional]{datetime2}
```

### 1.2 Lua(Xe)LATEX

#### 1.2.1 Usage with babel

To invoke Unicode mode, one needs to load the `fontspec` package instead of `inputenc` and `fontspec` and explicitly indicate which True Type or Open Type fonts should be used for romanic, sans-serif and monospaced types. The following example shows how to load Computer Modern Unicode (CMU) fonts, which is a part of all modern LATEX distributions with `babel` package:

```
\usepackage{fontspec}
\defaultfontfeatures{Renderer=Basic,Ligatures={TeX}}
\setmainfont{CMU Serif}
\setsansfont{CMU Sans Serif}
\setmonofont{CMU Typewriter Text}
\usepackage[english,ukrainian]{babel}
\usepackage[useregional]{datetime2}
```

Here `Renderer=Basic, Ligatures={TeX}` activates ligatures which are existed in LATEX.

### 1.2.2 Usage with polyglossia

```
\usepackage{polyglossia}
  \defaultfontfeatures{Renderer=Basic, Ligatures={TeX}}
  \setmainlanguage{ukrainian}
  \setotherlanguage{english}
  \setmainfont{CMU Serif}
  \setsansfont{CMU Sans Serif}
  \setmonofont{CMU Typewriter Text}
\usepackage[english,ukrainian]{babel}
\usepackage[useregional]{datetime2}
```

If one need use month name in nominative form, it should be able to switch between the different cases using `\DTMlangsetup`. For example:

```
% Default is genitive
\today
\DTMlangsetup[ukrainian]{month=nominative}
% Now \today in nominative
\today
```

For more information see documentation on `datetime2`.

## 2 Implementetion

### 2.1 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}[2017/06/13 1.2]
```

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

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

\DTMukrainiannominativemonthname ===== Ukrainian month names in nominative =====
9 \newcommand*\{\DTMukrainiannominativemonthname}{1}{%
10  \ifcase#1
11  \or
12  січень%
13  \or
14  лютий%
15  \or
16  березень%
17  \or
18  квітень%
19  \or
20  травень%
21  \or
22  червень%
```

```

23 \or
24 липень%
25 \or
26 серпень%
27 \or
28 вересень%
29 \or
30 жовтень%
31 \or
32 листопад%
33 \or
34 грудень%
35 \fi
36 }

```

\DTMukrainian nominative month names ===== Ukrainian Capitalized month names in nominative =====

```

37 \newcommand*{\DTMukrainian nominative Monthname}[1]{%
38   \ifcase#1
39     \or
40     Січень%
41     \or
42     Лютий%
43     \or
44     Березень%
45     \or
46     Квітень%
47     \or
48     Травень%
49     \or
50     Червень%
51     \or
52     Липень%
53     \or
54     Серпень%
55     \or
56     Вересень%
57     \or
58     Жовтень%
59     \or
60     Листопад%
61     \or
62     Грудень%
63     \fi
64 }

```

\DTMukrainian genitive month names ===== Ukrainian month names in genitive =====

```

65 \newcommand*{\DTMukrainian genitive Monthname}[1]{%
66   \ifcase#1
67     \or
68     січня%
69     \or
70     лютого%
71     \or
72     березня%
73     \or
74     квітня%
75     \or
76     травня%
77     \or
78     червня%
79     \or
80     липня%
81     \or
82     серпня%
83     \or
84     вересня%

```

```

85  \or
86  жовтня%
87  \or
88  листопада%
89  \or
90  грудня%
91  \fi
92 }

\DTMukrainiangenitiveMonthname ===== Ukrainian Capitalized month names in genitive =====
93 \newcommand*{\DTMukrainiangenitiveMonthname}[1]{%
94   \ifcase#1
95     \or
96     Січня%
97     \or
98     Лютого%
99     \or
100    Березня%
101    \or
102    Квітня%
103    \or
104    Травня%
105    \or
106    Червня%
107    \or
108    Липня%
109    \or
110    Серпня%
111    \or
112    Вересня%
113    \or
114    Жовтня%
115    \or
116    Листопада%
117    \or
118    Грудня%
119    \fi
120 }

```

Now we set `\DTMukrainiangenitiveMonthname` and `\DTMukrainiangenitivemonthname` as default setting.

```

121 \newcommand*{\DTMukrainianmonthname}{\DTMukrainiangenitivemonthname}%
122 \newcommand*{\DTMukrainianMonthname}{\DTMukrainiangenitiveMonthname}%

```

`\DTMukrainianshortmonthname` ===== Abbreviated Ukrainian short month names =====

```

123 \newcommand*{\DTMukrainianshortmonthname}[1]{%
124   \ifcase#1
125     \or
126     січ.%
127     \or
128     лют.%
129     \or
130     бер.%
131     \or
132     квіт.%
133     \or
134     трав.%
135     \or
136     черв.%
137     \or
138     лип.%
139     \or
140     серп.%
141     \or
142     вер.%

```

```

143 \or
144 жовт.%  

145 \or
146 листоп.%  

147 \or
148 груд.%  

149 \fi  

150 }

```

\DTMukrainianshortMonthname ====== Abbreviated Ukrainian Capitalized short month names ======

```

151 \newcommand*{\DTMukrainianshortMonthname}[1]{%
152   \ifcase#1
153     \or
154     Січ.%  

155     \or
156     Лют.%  

157     \or
158     Бер.%  

159     \or
160     Квіт.%  

161     \or
162     Трав%
163     \or
164     Черв.%  

165     \or
166     Лип.%  

167     \or
168     Серп.%  

169     \or
170     Вер.%  

171     \or
172     Жовт.%  

173     \or
174     Листоп.%  

175     \or
176     Груд.%  

177     \fi  

178 }

```

\DTMukrainianweekdayname ====== Ukrainian day of week names ======

```

179 \newcommand*{\DTMukrainianweekdayname}[1]{%
180   \ifcase#1
181     понеділок%
182     \or
183     вівторок%
184     \or
185     середа%
186     \or
187     четвер%
188     \or
189     п'ятниця%
190     \or
191     субота%
192     \or
193     неділя%
194     \fi  

195 }

```

\DTMukrainianWeekdayname ====== Ukrainian Capitalized day of week names ======

```

196 \newcommand*{\DTMukrainianWeekdayname}[1]{%
197   \ifcase#1
198     Понеділок%
199     \or
200     Вівторок%
201     \or

```

```

202 Середа%
203 \or
204 Четвер%
205 \or
206 П'ятниця%
207 \or
208 Субота%
209 \or
210 Неділя%
211 \fi
212 }

```

\DTMukrainianshortweekdayname ====== Abbreviated Ukrainian day of week names ======

```

213 \newcommand*{\DTMukrainianshortweekdayname}[1]{%
214   \ifcase#1
215     пн.%
216   \or
217     вт.%
218   \or
219     ср.%
220   \or
221     чт.%
222   \or
223     пт.%
224   \or
225     сб.%
226   \or
227    нд.%
228   \fi
229 }

```

\DTMukrainianshortWeekdayname ====== Abbreviated Ukrainian Capitalized day of week names ======

```

230 \newcommand*{\DTMukrainianshortWeekdayname}[1]{%
231   \ifcase#1
232     Пн.%
233   \or
234     Вт.%
235   \or
236     Ср.%
237   \or
238     Чт.%
239   \or
240     Пт.%
241   \or
242     Сб.%
243   \or
244     Нд.%
245   \fi
246 }

```

## 2.2 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

```
247 \ProvidesDateTimeModule{ukrainian-ascii}[2017/06/13 1.2]
```

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

```
\DTMukrainianordinal
248 \newcommand*{\DTMukrainianordinal}[1]{%
249   \number#1
250 }
```

```

\DTMukrainianyear
251 \newcommand*{\DTMukrainianyear}[1]{%
252   \number#1
253   \DTMtexorpdfstring{\protect~}{\space}\protect\cyr.%
254 }

\DTMukrainiannominativemonthname ===== Ukrainian month names in nominative =====
255 \newcommand*{\DTMukrainiannominativemonthname}[1]{%
256   \ifcase#1
257     \or
258     \protect\crys\protect\cyrii\protect\cyrch\protect\cyre\protect\cynn\protect\crysftsn
259     \or
260     \protect\cyrl\protect\cyryu\protect\cyrt\protect\cyri\protect\cyrishrt
261     \or
262     \protect\cyrb\protect\cyre\protect\cyrr\protect\cyre\protect\cyrz
263     \protect\cyre\protect\cynn\protect\crysftsn
264     \or
265     \protect\cyrk\protect\cyrv\protect\cyrii\protect\cyrt\protect\cyre\protect\cynn\protect\cyrn\protect\crysftsn
266     \or
267     \protect\cyrt\protect\cyrr\protect\cyra\protect\cyrv\protect\cyre\protect\cynn\protect\cyrn\protect\crysftsn
268     \or
269     \protect\cyrch\protect\cyre\protect\cyrr\protect\cyrv\protect\cyre\protect\cynn\protect\cyrn\protect\crysftsn
270     \or
271     \protect\cyrl\protect\cyri\protect\cyrp\protect\cyre\protect\cynn\protect\crysftsn
272     \or
273     \protect\crys\protect\cyre\protect\cyrr\protect\cyrp\protect\cyre\protect\cynn\protect\cyrn\protect\crysftsn
274     \or
275     \protect\cyrv\protect\cyre\protect\cyrr\protect\cyre\protect\crys
276     \protect\cyre\protect\cynn\protect\crysftsn
277     \or
278     \protect\cyrzh\protect\cyro\protect\cyrv\protect\cyrt\protect\cyre\protect\cynn\protect\cyrn\protect\crysftsn
279     \or
280     \protect\cyrl\protect\cyri\protect\crys\protect\cyrt\protect\cyre\protect\cyrz
281     \protect\cyrp\protect\cyra\protect\cyrd
282     \or
283     \protect\cyrg\protect\cyrr\protect\cyru\protect\cyrd\protect\cyre\protect\cynn\protect\cyrn\protect\crysftsn
284   \fi
285 }

\DTMukrainiannominativeMonthname ===== Ukrainian Capitalized month names in nominative =====
286 \newcommand*{\DTMukrainiannominativeMonthname}[1]{%
287   \ifcase#1
288     \or
289     \protect\CYRS\protect\cyrii\protect\cyrch\protect\cyre\protect\cynn\protect\crysftsn
290     \or
291     \protect\CYRL\protect\cyryu\protect\cyrt\protect\cyri\protect\cyrishrt
292     \or
293     \protect\CYRB\protect\cyre\protect\cyrr\protect\cyre\protect\cyrz
294     \protect\cyre\protect\cynn\protect\crysftsn
295     \or
296     \protect\CYRK\protect\cyrv\protect\cyrii\protect\cyrt\protect\cyre\protect\cynn\protect\cyrn\protect\crysftsn
297     \or
298     \protect\CYRT\protect\cyrr\protect\cyra\protect\cyrv\protect\cyre\protect\cynn\protect\cyrn\protect\crysftsn
299     \or
300     \protect\CYRCH\protect\cyre\protect\cyrr\protect\cyrv\protect\cyre\protect\cynn\protect\cyrn\protect\crysftsn
301     \or
302     \protect\CYRL\protect\cyri\protect\cyrp\protect\cyre\protect\cynn\protect\crysftsn
303     \or
304     \protect\CYRS\protect\cyre\protect\cyrr\protect\cyrp\protect\cyre\protect\cynn\protect\cyrn\protect\crysftsn
305     \or
306     \protect\CYRV\protect\cyre\protect\cyrr\protect\cyre\protect\crys
307     \protect\CYRE\protect\cynn\protect\crysftsn
308     \or
309     \protect\CYRZH\protect\cyro\protect\cyrv\protect\cyrt\protect\cyre\protect\cynn\protect\cyrn\protect\crysftsn
310     \or

```

```

311   \protect\CYRL\protect\cyri\protect\cyrs\protect\cyrt\protect\cyro
312   \protect\cyrp\protect\cyra\protect\cyrd
313 \or
314   \protect\CYRG\protect\cyrr\protect\cyru\protect\cyrd\protect\protect\cyre\protect\cyro
315 \fi
316 }

```

\DTMukrainianganitivemonthname ====== Ukrainian month names in genitive ======

```

317 \newcommand*{\DTMukrainianganitivemonthname}[1]{%
318   \ifcase#1
319   \or
320   \protect\cyrs\protect\cyrii\protect\cyrch\protect\cyrn\protect\cyrya
321   \or
322   \protect\cyrl\protect\cyryu\protect\cyrt\protect\cyro\protect\cyrg
323   \protect\cyro
324   \or
325   \protect\cyrb\protect\cyre\protect\cyrr\protect\cyre\protect\cyrz
326   \protect\cyrn\protect\cyrya
327   \or
328   \protect\cyrk\protect\cyrv\protect\cyrii\protect\cyrt\protect\cyrn
329   \protect\cyrya
330   \or
331   \protect\cyrt\protect\cyrr\protect\cyra\protect\cyrv\protect\cyrn
332   \protect\cyrya
333   \or
334   \protect\cyrch\protect\cyre\protect\cyrr\protect\cyrv\protect\cyrn
335   \protect\cyrya
336   \or
337   \protect\cyrl\protect\cyri\protect\cyrp\protect\cyrn\protect\cyrya
338   \or
339   \protect\cyrs\protect\cyre\protect\cyrr\protect\cyrp\protect\cyrn
340   \protect\cyrya
341   \or
342   \protect\cyrv\protect\cyre\protect\cyrr\protect\cyre\protect\cyrs
343   \protect\cyrn\protect\cyrya
344   \or
345   \protect\cyrzh\protect\cyro\protect\cyrv\protect\cyrt\protect\cyrn
346   \protect\cyrya
347   \or
348   \protect\cyrl\protect\cyri\protect\cyrs\protect\cyrt\protect\cyro
349   \protect\cyrp\protect\cyra\protect\cyrd\protect\cyra
350   \or
351   \protect\cyrg\protect\cyrr\protect\cyru\protect\cyrd\protect\cyrn
352   \protect\cyrya
353 \fi
354 }

```

\DTMukrainianganitiveMonthname ====== Ukrainian Capitalized month names in genitive ======

```

355 \newcommand*{\DTMukrainianganitiveMonthname}[1]{%
356   \ifcase#1
357   \or
358   \protect\CYRS\protect\cyrii\protect\cyrch\protect\cyrn\protect\cyrya
359   \or
360   \protect\CYRL\protect\cyryu\protect\cyrt\protect\cyro\protect\cyrg
361   \protect\cyro
362   \or
363   \protect\CYRB\protect\cyre\protect\cyrr\protect\cyre\protect\cyrz
364   \protect\cyrn\protect\cyrya
365   \or
366   \protect\CYRK\protect\cyrv\protect\cyrii\protect\cyrt\protect\cyrn
367   \protect\cyrya
368   \or
369   \protect\CYRT\protect\cyrr\protect\cyra\protect\cyrv\protect\cyrn
370   \protect\cyrya
371   \or
372   \protect\CYRCH\protect\cyre\protect\cyrr\protect\cyrv\protect\cyrn

```

```

373   \protect\cyrya
374   \or
375   \protect\CYRL\protect\cyri\protect\cyrp\protect\cyrn\protect\cyrya
376   \or
377   \protect\CYRS\protect\cyre\protect\cyrr\protect\cyrp\protect\cyrn
378   \protect\cyrya
379   \or
380   \protect\CYRV\protect\cyre\protect\cyrr\protect\cyre\protect\crys
381   \protect\cyrn\protect\cyrya
382   \or
383   \protect\CYRZH\protect\cyro\protect\cyrv\protect\cyrt\protect\cyrn
384   \protect\cyrya
385   \or
386   \protect\CYRL\protect\cyri\protect\crys\protect\cyrt\protect\cyro
387   \protect\cyrp\protect\cyra\protect\cyrd\protect\cyra
388   \or
389   \protect\CYRG\protect\cyrr\protect\cyru\protect\cyrd\protect\cyrn
390   \protect\cyrya
391   \fi
392 }

```

Now we set \DTMukrainiangenitiveMonthname and \DTMukrainiangenitivemonthname as default setting.

```

393 \newcommand*{\DTMukrainianmonthname}{\DTMukrainiangenitivemonthname}%
394 \newcommand*{\DTMukrainianMonthname}{\DTMukrainiangenitiveMonthname}%

```

\DTMukrainianshortmonthname ====== Abbreviated Ukrainian month names ======

```

395 \newcommand*{\DTMukrainianshortmonthname}[1]{%
396   \ifcase#1
397   \or
398   \protect\crys\protect\cyrii\protect\cyrch.
399   \or
400   \protect\cyrl\protect\cyryu\protect\cyrt.
401   \or
402   \protect\cyrb\protect\cyre\protect\cyrr.
403   \or
404   \protect\cyrk\protect\cyrv\protect\cyrii\protect\cyrt.
405   \or
406   \protect\cyrt\protect\cyrr\protect\cyra\protect\cyrv.
407   \or
408   \protect\cyrch\protect\cyre\protect\cyrr\protect\cyrv.
409   \or
410   \protect\cyrl\protect\cyri\protect\cyrp.
411   \or
412   \protect\crys\protect\cyre\protect\cyrr\protect\cyrp.
413   \or
414   \protect\cyrv\protect\cyre\protect\cyrr.
415   \or
416   \protect\cyrzh\protect\cyro\protect\cyrv\protect\cyrt.
417   \or
418   \protect\cyrl\protect\cyri\protect\crys\protect\cyrt\protect\cyro
419   \protect\cyrp.
420   \or
421   \protect\cyrg\protect\cyrr\protect\cyru\protect\cyrd.
422 \fi
423 }

```

\DTMukrainianshortMonthname ====== Abbreviated Capitalized Ukrainian month names ======

```

424 \newcommand*{\DTMukrainianshortMonthname}[1]{%
425   \ifcase#1
426   \or
427   \protect\CYRS\protect\cyrii\protect\cyrch.
428   \or
429   \protect\CYRL\protect\cyryu\protect\cyrt.
430   \or

```

```

431   \protect\CYRB\protect\cyre\protect\cyrr.
432   \or
433   \protect\CYRK\protect\cyrv\protect\cyrii\protect\cyrt.
434   \or
435   \protect\CYRT\protect\cyrr\protect\cyra\protect\cyrv.
436   \or
437   \protect\CYRCH\protect\cyre\protect\cyrr\protect\cyrv.
438   \or
439   \protect\CYRL\protect\cyri\protect\cyrp.
440   \or
441   \protect\CYRS\protect\cyre\protect\cyrr\protect\cyrp.
442   \or
443   \protect\CYRV\protect\cyre\protect\cyrr.
444   \or
445   \protect\CYRZH\protect\cyro\protect\cyrv\protect\cyrt.
446   \or
447   \protect\CYRL\protect\cyri\protect\cyrs\protect\cyrt\protect\cyro
448   \protect\cyrp.
449   \or
450   \protect\CYRG\protect\cyrr\protect\cyru\protect\cyrd.
451 \fi
452 }

```

\DTMukrainianweekdayname ===== Ukrainian day of week names =====

```

453 \newcommand*{\DTMukrainianweekdayname}[1]{%
454   \ifcase#1
455     \protect\cyrp\protect\cyro\protect\cyrn\protect\cyre\protect\cyrd\protect\cyrii\protect\cyrr
456   \or
457     \protect\cyrv\protect\cyrii\protect\cyrv\protect\cyrt\protect\cyro\protect\cyrr\protect\cyrc
458   \or
459     \protect\cyrs\protect\cyre\protect\cyrr\protect\cyre\protect\cyrd\protect\cyra%
460   \or
461     \protect\cyrch\protect\cyre\protect\cyrt\protect\cyrv\protect\cyre\protect\cyrc\protect\cyrr%
462   \or
463     \protect\cyrp'\protect\cyrya\protect\cyrt\protect\cyrn\protect\cyri\protect\cyrc\protect\cyra%
464   \or
465     \protect\cyrs\protect\cyru\protect\cyrb\protect\cyro\protect\cyrt\protect\cyra%
466   \or
467     \protect\cyrn\protect\cyre\protect\cyrd\protect\cyrii\protect\cyrl\protect\cyrya%
468   \fi
469 }

```

\DTMukrainianWeekdayname ===== Ukrainian Capitalized day of week names =====

```

470 \newcommand*{\DTMukrainianWeekdayname}[1]{%
471   \ifcase#1
472     \protect\CYRP\protect\cyro\protect\cyrn\protect\cyre\protect\cyrd\protect\cyrii\protect\cyrr
473   \or
474     \protect\CYRV\protect\cyrii\protect\cyrv\protect\cyrt\protect\cyro\protect\cyrr\protect\cyrc
475   \or
476     \protect\CYRS\protect\cyre\protect\cyrr\protect\cyre\protect\cyrd\protect\cyra%
477   \or
478     \protect\CYRCH\protect\cyre\protect\cyrt\protect\cyrv\protect\cyre\protect\cyrc\protect\cyrr%
479   \or
480     \protect\CYRP'\protect\cyrya\protect\cyrt\protect\cyrn\protect\cyri\protect\cyrc\protect\cyra%
481   \or
482     \protect\CYRS\protect\cyru\protect\cyrb\protect\cyro\protect\cyrt\protect\cyra%
483   \or
484     \protect\CYRN\protect\cyre\protect\cyrd\protect\cyrii\protect\cyrl\protect\cyrya%
485   \fi
486 }

```

\DTMukrainianshortweekdayname ===== Abbreviated Ukrainian day of week names =====

```

487 \newcommand*{\DTMukrainianshortweekdayname}[1]{%
488   \ifcase#1
489     \protect\cyrp\protect\cyrn.%
```

```

490 \or
491 \protect\cyrv\protect\cyrt.%
492 \or
493 \protect\cyrs\protect\cyrr.%
494 \or
495 \protect\cyrch\protect\cyrt%
496 \or
497 \protect\cyrp\protect\cyrt.%
498 \or
499 \protect\cyrs\protect\cyrb.%
500 \or
501 \protect\cyrn\protect\cyrd.%
502 \fi
503 }

\DTMukrainianshortWeekdayname ====== Abbreviated Ukrainian Capitalized day of week names ======
504 \newcommand*{\DTMukrainianshortWeekdayname}[1]{%
505   \ifcase#1
506     \protect\CYRP\protect\cyrn.%
507     \or
508     \protect\CYRV\protect\cyrt.%
509     \or
510     \protect\CYRS\protect\cyrr.%
511     \or
512     \protect\CYRCH\protect\cyrt.%
513     \or
514     \protect\CYRP\protect\cyrt.%
515     \or
516     \protect\CYRS\protect\cyrb.%
517     \or
518     \protect\CYRN\protect\cyrd.%
519   \fi
520 }

```

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

Identify Module

```
521 \ProvidesDateTimeModule{ukrainian}[2017/06/13 1.2]
```

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

```
522 \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`.

```

523 \ifxetex
524   \RequireDateTimeModule{ukrainian-utf8}
525 \else
526   \ifluatex
527     \RequireDateTimeModule{ukrainian-utf8}
528   \else
529     \RequireDateTimeModule{ukrainian-ascii}
530   \fi
531 \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.

`\DTMukrainiandowdaysep` The separator between the day of week name and the day of month number for the text format.

```

532 \newcommand*{\DTMukrainiandowdaysep}{%
533   \DTMtexorpdfstring{\protect\~}{\space}}

```

\DTMukrainiandaymonthsep The separator between the day and month for the text format.  
 534 \newcommand\*\{\DTMukrainiandaymonthsep\}{%  
 535 \DTMtexorpdfstring{\protect~}{\space}}

\DTMukrainiannommonthyearsep The separator between the month and year for the text format.  
 536 \newcommand\*\{\DTMukrainiannommonthyearsep\}{%  
 537 \DTMtexorpdfstring{\protect~}{\space}}

\DTMukrainianmonthyearsep The separator between the month and year for the text format.  
 538 \newcommand\*\{\DTMukrainianmonthyearsep\}{%  
 539 \DTMtexorpdfstring{\protect~}{\space}}

\DTMukrainiandatetimesep The separator between the date and time blocks in the full format (either text or numeric).  
 540 \newcommand\*\{\DTMukrainiandatetimesep\}{%  
 541 \DTMtexorpdfstring{\protect~}{\space}}

\DTMukrainiantimezonesep The separator between the time and zone blocks in the full format (either text or numeric).  
 542 \newcommand\*\{\DTMukrainiantimezonesep\}{%  
 543 \DTMtexorpdfstring{\protect~}{\space}}

\DTMukrainiandatesep The separator for the numeric date format.  
 544 \newcommand\*\{\DTMukrainiandatesep\}{.}

\DTMukrainiantimesep The separator for the numeric time format.  
 545 \newcommand\*\{\DTMukrainiantimesep\}{:}

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

```
546 \DTMdefkey{ukrainian}{dowdaysep}{\renewcommand*\{\DTMukrainiandowdaysep\}{#1}}
547 \DTMdefkey{ukrainian}{daymonthsep}{\renewcommand*\{\DTMukrainiandaymonthsep\}{#1}}
548 \DTMdefkey{ukrainian}{monthyearsep}{\renewcommand*\{\DTMukrainianmonthyearsep\}{#1}}
549 \DTMdefkey{ukrainian}{nommonthyearsep}{\renewcommand*\{\DTMukrainiannommonthyearsep\}{#1}}
550 \DTMdefkey{ukrainian}{datetimesep}{\renewcommand*\{\DTMukrainiandatetimesep\}{#1}}
551 \DTMdefkey{ukrainian}{timezonesep}{\renewcommand*\{\DTMukrainiantimezonesep\}{#1}}
552 \DTMdefkey{ukrainian}{datesep}{\renewcommand*\{\DTMukrainiandatesep\}{#1}}
553 \DTMdefkey{ukrainian}{timesep}{\renewcommand*\{\DTMukrainiantimesep\}{#1}}
```

The block that defines the module options for using genitive or nominative case of month name:

```
554 \DTMdefchoicekey{ukrainian}{month}{\val\nr}{genitive,nominative}{%
555 \ifcase\nr\relax
556 \renewcommand*\DTMukrainianmonthname{\DTMukrainiangenitivemonthname}%
557 \renewcommand*\DTMukrainianMonthname{\DTMukrainiangenitiveMonthname}%
558 \or
559 \renewcommand*\DTMukrainianmonthname{\DTMukrainiannominativemonthname}%
560 \renewcommand*\DTMukrainianMonthname{\DTMukrainiannominativeMonthname}%
561 \fi
562 }
```

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

563 \DTMdefboolkey{ukrainian}{abbr}[true]{}

The default is the full name.

564 \DTMsetbool{ukrainian}{abbr}{false}

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

565 \DTMdefboolkey{ukrainian}{mapzone}[true]{}

The default is to use mappings.

566 \DTMsetbool{ukrainian}{mapzone}{true}

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

567 \DTMdefboolkey{ukrainian}{showdayofmonth}[true]{}

The default is to show the day of month.

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

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

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

The default is to show the year.

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

```
571 \DTMnewstyle
572 {ukrainian}%
573 {%
574   \renewcommand*\DTMdisplaydate[4]{%
575     \ifDTMshowdow
576       \ifnum##4>-1
577         \DTMifbool{ukrainian}{abbr}{%
578           {\DTMukrainianshortweekdayname{##4}}%
579           {\DTMukrainianweekdayname{##4}}%
580           \DTMukrainiandowdaysep
581         }%
582       \fi
583     \DTMifbool{ukrainian}{showdayofmonth}{%
584       {%
585         \DTMukrainianordinal{##3}%
586         \DTMukrainiandaymonthsep
587       }%
588       {%
589         \DTMifbool{ukrainian}{abbr}{%
590           {\DTMukrainianshortmonthname{##2}}%
591           {\DTMukrainianmonthname{##2}}%
592           \DTMifbool{ukrainian}{showyear}{%
593             {%
594               \DTMukrainianmonthyearsep
595               \DTMukrainianyear{##1}%
596             }%
597             {%
598           }%
599         }%
600       \renewcommand*\DTMdisplaydate[4]{%
601         \ifDTMshowdow
602           \ifnum##4>-1
603             \DTMifbool{ukrainian}{abbr}{%
604               {\DTMukrainianshortWeekdayname{##4}}%
605               {\DTMukrainianWeekdayname{##4}}%
606               \DTMukrainiandowdaysep
607               \DTMifbool{ukrainian}{showdayofmonth}{%
608                 {%
609                   \DTMukrainianordinal{##3}%
610                   \DTMukrainiandaymonthsep
611                 }%
612                 {%
613                   \DTMifbool{ukrainian}{abbr}{%
614                     {\DTMukrainianshortmonthname{##2}}%
615                     {\DTMukrainianmonthname{##2}}%
616                     \DTMifbool{ukrainian}{showyear}{%
617                       {%
618                         \DTMukrainianmonthyearsep
619                         \DTMukrainianyear{##1}%
620                       }%
621                     {%
622                       \DTMifbool{ukrainian}{showdayofmonth}{%
623                         {%
624                           \DTMukrainianordinal{##3}%
625                           \DTMukrainiandaymonthsep
626                           \DTMifbool{ukrainian}{abbr}{%
627                             {\DTMukrainianshortMonthname{##2}}%
628                             {\DTMukrainianMonthname{##2}}%
629                           }%
630                         }%
631                       }%
632                     }%
633                   }%
634                 }%
635               }%
636             }%
637           }%
638         }%
639       }%
640     }%
641   }%
642 }
```

```

629      }%
630      {%
631          \DTMifbool{ukrainian}{abbr}%
632          {\DTMukrainianshortMonthname{##2}}%
633          {\DTMukrainianMonthname{##2}}%
634      }%
635      \DTMifbool{ukrainian}{showyear}%
636      {%
637          \DTMukrainianmonthyearsep
638          \DTMukrainianyear{##1}%
639      }%
640      {}%
641      \fi
642  \else
643      \DTMifbool{ukrainian}{showdayofmonth}
644      {%
645          \DTMukrainianordinal{##3}%
646          \DTMukrainiandaymonthsep
647          \DTMifbool{ukrainian}{abbr}%
648          {\DTMukrainianshortMonthname{##2}}%
649          {\DTMukrainianMonthname{##2}}%
650      }%
651      {%
652          \DTMifbool{ukrainian}{abbr}%
653          {\DTMukrainianshortMonthname{##2}}%
654          {\DTMukrainianMonthname{##2}}%
655      }%
656      \DTMifbool{ukrainian}{showyear}%
657      {%
658          \DTMukrainianmonthyearsep
659          \DTMukrainianyear{##1}%
660      }%
661      {}%
662      \fi
663  }%
664 }%
665 {%
666     \renewcommand*\DTMdisplaytime[3]{%
667         \number##1
668         \DTMukrainiantimesep\DTMtowidgets{##2}%
669     }%
670 }%
671 {%
672     \DTMresetzones
673     \DTMukrainianzonemaps
674     \renewcommand*{\DTMdisplayzone}[2]{%
675         \DTMifbool{ukrainian}{mapzone}%
676         {\DTMusezonemapordefault{##1}{##2}}%
677         {%
678             \ifnum##1<0\else+\fi\DTMtowidgets{##1}%
679             \ifDTMshowzoneminutes\DTMukrainiantimesep\DTMtowidgets{##2}\fi
680         }%
681     }%
682 }%
683 {%
684     \renewcommand*{\DTMdisplay}[9]{%
685         \ifDTMshowdate
686             \DTMdisplaydate{##1}{##2}{##3}{##4}%
687             \DTMukrainiandatetimesep
688             \fi
689             \DTMdisplaytime{##5}{##6}{##7}%
690             \ifDTMshowzone
691                 \DTMukrainiantimezonesep
692                 \DTMdisplayzone{##8}{##9}%
693             \fi
694     }%

```

```

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

Define numeric style.

707 \DTMnewstyle
708 {ukrainian-numeric}%
709 {%
710   \renewcommand*{\DTMdisplaydate}[4]{%
711     \DTMifbool{ukrainian}{showdayofmonth}%
712   }%
713   \number##3 % space intended
714   \DTMukrainiandatesep
715 }%
716 {}%
717 \number##2 % space intended
718 \DTMifbool{ukrainian}{showyear}%
719 {}%
720   \DTMukrainiandatesep
721   \number##1 % space intended
722 }%
723 {}%
724 }%
725 \renewcommand*{\DTMDisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
726 }%
727 {%
728   \renewcommand*{\DTMdisplaytime}[3]{%
729     \number##1
730     \DTMukrainiantimesep\DTMtwodigits{##2}%
731     \ifDTMshowseconds\DTMukrainiantimesep\DTMtwodigits{##3}\fi
732   }%
733 }%
734 {%
735   \DTMresetzones
736   \DTMukrainianzonemaps
737   \renewcommand*{\DTMdisplayzone}[2]{%
738     \DTMifbool{ukrainian}{mapzone}%
739     {\DTMusezonemapordefault{##1}{##2}}%
740   }%
741   \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
742   \ifDTMshowzoneminutes\DTMukrainiantimesep\DTMtwodigits{##2}\fi
743 }%
744 }%
745 }%
746 {%
747   \renewcommand*{\DTMdisplay}[9]{%
748     \ifDTMshowdate
749       \DTMdisplaydate{##1}{##2}{##3}{##4}%
750       \DTMukrainiandatetimesep
751     \fi
752     \DTMdisplaytime{##5}{##6}{##7}%
753     \ifDTMshowzone
754       \DTMukrainiantimezonesep
755       \DTMdisplayzone{##8}{##9}%
756     \fi
757   }%
758   \renewcommand*{\DTMDisplay}{\DTMdisplay}%
759 }

```

\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).

```
760 \newcommand*\{\DTMukrainianzonemaps}{%
761   \DTMdefzonemap{02}{00}{EET}%
762   \DTMdefzonemap{03}{00}{EEST}%
763 }
```

Switch style according to the `useregional` setting.

```
764 \DTMifcaseregional
765 {}% do nothing
766 {\DTMsetstyle{ukrainian}}%
767 {\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.)

```
768 \ifcsundef{date\CurrentTrackedDialect}%
769 {%
770   \ifundef{\dateukrainian}%
771   {}% do nothing
772   {}%
773   {}%
774     \def\dateukrainian{%
775       \DTMifcaseregional
776       {}% do nothing
777       {\DTMsetstyle{ukrainian}}%
778       {\DTMsetstyle{ukrainian-numeric}}%
779     }%
780   {}%
781 }%
782 {%
783   \csdef{date\CurrentTrackedDialect}{%
784     \DTMifcaseregional
785     {}% do nothing
786     {\DTMsetstyle{ukrainian}}%
787     {\DTMsetstyle{ukrainian-numeric}}%
788   }%
789 }%
```