French Module for datetime2 Package

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Abstract

This is the French 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.

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{french-utf8}[2017/04/08 v1.02]
```

\DTMfrenchordinal

```
2 \ifdef\ier
3 {%
4   \newcommand*{\DTMfrenchordinal}[1]{%
5     \number#1
6     \ifnum#1=1\DTMtexorpdfstring{\protect\ier}{er}\fi
7   }
8 }%
9 {%
10   \newcommand*{\DTMfrenchordinal}[1]{%
11     \number#1
12     \ifnum#1=1\DTMtexorpdfstring{\protect\textsuperscript{er}}{er}\fi
13   }
14 }%
```

---

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`\DTMfrenchmonthname` French month names.

```
15 \newcommand*{\DTMfrenchmonthname}[1]{%
16   \ifcase#1
17   \or
18   janvier%
19   \or
20   février%
21   \or
22   mars%
23   \or
24   avril%
25   \or
26   mai%
27   \or
28   juin%
29   \or
30   juillet%
31   \or
32   août%
33   \or
34   septembre%
35   \or
36   octobre%
37   \or
38   novembre%
39   \or
40   décembre%
41   \fi
42 }
```

`\DTMfrenchMonthname` As above but start with a capital.

```
43 \newcommand*{\DTMfrenchMonthname}[1]{%
44   \ifcase#1
45   \or
46   Janvier%
47   \or
48   Février%
49   \or
50   Mars%
51   \or
52   Avril%
53   \or
54   Mai%
55   \or
56   Juin%
57   \or
58   Juillet%
59   \or
60   Août%
61   \or
```

```
62    Septembre%
63    \or
64    Octobre%
65    \or
66    Novembre%
67    \or
68    Décembre%
69    \fi
70 }
```

\DTMfrenchshortmonthname   Abbreviated French month names.

```
71 \newcommand*{\DTMfrenchshortmonthname}[1]{%
72    \ifcase#1
73    \or
74    janv.%
75    \or
76    févr.%
77    \or
78    mars%
79    \or
80    avr.%
81    \or
82    mai%
83    \or
84    juin%
85    \or
86    juill.%
87    \or
88    août%
89    \or
90    sept.%
91    \or
92    oct.%
93    \or
94    nov.%
95    \or
96    déc.%
97    \fi
98 }
```

\DTMfrenchshortMonthname   As above but start with a capital.

```
99 \newcommand*{\DTMfrenchshortMonthname}[1]{%
100    \ifcase#1
101    \or
102    Janv.%
103    \or
104    Févr.%
105    \or
106    Mars%
107    \or
```

```
108    Avr.%
109    \or
110    Mai%
111    \or
112    Juin%
113    \or
114    Juill.%
115    \or
116    Août%
117    \or
118    Sept.%
119    \or
120    Oct.%
121    \or
122    Nov.%
123    \or
124    Déc.%
125    \fi
126 }
```

\DTMfrenchweekdayname   French day of week names.

```
127 \newcommand*{\DTMfrenchweekdayname}[1]{%
128    \ifcase#1
129    lundi%
130    \or
131    mardi%
132    \or
133    mercredi%
134    \or
135    jeudi%
136    \or
137    vendredi%
138    \or
139    samedi%
140    \or
141    dimanche%
142    \fi
143 }
```

\DTMfrenchWeekdayname   As above but start with a capital.

```
144 \newcommand*{\DTMfrenchWeekdayname}[1]{%
145    \ifcase#1
146    Lundi%
147    \or
148    Mardi%
149    \or
150    Mercredi%
151    \or
152    Jeudi%
153    \or
```

```
154    Vendredi%
155    \or
156    Samedi%
157    \or
158    Dimanche%
159    \fi
160 }
```

\DTMfrenchshortweekdayname   French abbreviated day of week names.

```
161 \newcommand*{\DTMfrenchshortweekdayname}[1]{%
162    \ifcase#1
163    lun.%
164    \or
165    mar.%
166    \or
167    mer.%
168    \or
169    jeu.%
170    \or
171    ven.%
172    \or
173    sam.%
174    \or
175    dim.%
176    \fi
177 }
```

\DTMfrenchshortWeekdayname   As above but start with a capital.

```
178 \newcommand*{\DTMfrenchshortWeekdayname}[1]{%
179    \ifcase#1
180    Lun.%
181    \or
182    Mar.%
183    \or
184    Mer.%
185    \or
186    Jeu.%
187    \or
188    Ven.%
189    \or
190    Sam.%
191    \or
192    Dim.%
193    \fi
194 }
```

\DTMfrenchmidnight

```
195 \newcommand*\DTMfrenchmidnight{minuit}%
```

196 `\newcommand*\DTMfrenchnoon{midi}%`

197 `\newcommand*\DTMfrenchtimesymsep{\,}%`

198 `\newcommand*\DTMfrenchhoursym{h}%`

This style ignores seconds.

```
199 \DTMnewtimestyle
200 {frenchalpha}% label
201 {%
202     \renewcommand*\DTMdisplaytime[3]{%
203       \ifnum##2=0
204         \ifnum##1=12
205           \DTMfrenchnoon
206         \else
207           \ifnum##1=0
208             \DTMfrenchmidnight
209           \else
210             \ifnum##1=24
211               \DTMfrenchmidnight
212             \else
213               \number##1
214               \DTMfrenchtimesymsep\DTMfrenchhoursym
215             \fi
216           \fi
217         \fi
218       \else
219         \ifnum##1=24
220           0%
221         \else
222           \number##1
223         \fi
224         \DTMfrenchtimesymsep\DTMfrenchhoursym
225         \DTMfrenchtimesymsep\DTMtwodigits{##2}%
226       \fi
227     }%
228 }%
```

1.2 ASCII

This file contains the settings that use LaTeX commands for non-ASCII charac-
ters. 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-french-utf8.ldf` file as the non-ASCII characters are made active in
that situation and would need protecting against expansion. Identify module

229 `\ProvidesDateTimeModule{french-ascii}[2017/04/08 v1.02]`

6

\DTMfrenchordinal

```
230 \ifdef\ier
231 {%
232   \newcommand*{\DTMfrenchordinal}[1]{%
233     \number#1
234     \ifnum#1=1\DTMtexorpdfstring{\protect\ier}{er}\fi
235   }
236 }%
237 {%
238   \newcommand*{\DTMfrenchordinal}[1]{%
239     \number#1
240     \ifnum#1=1\DTMtexorpdfstring{\protect\textsuperscript{er}}{er}\fi
241   }
242 }%
```

\DTMfrenchmonthname   French month names.

```
243 \newcommand*{\DTMfrenchmonthname}[1]{%
244   \ifcase#1
245   \or
246   janvier%
247   \or
248   f\protect\'evrier%
249   \or
250   mars%
251   \or
252   avril%
253   \or
254   mai%
255   \or
256   juin%
257   \or
258   juillet%
259   \or
260   ao\protect\^ut%
261   \or
262   septembre%
263   \or
264   octobre%
265   \or
266   novembre%
267   \or
268   d\protect\'ecembre%
269   \fi
270 }
```

\DTMfrenchMonthname   As above but start with a capital.

```
271 \newcommand*{\DTMfrenchMonthname}[1]{%
272   \ifcase#1
273   \or
```

```
274    Janvier%
275    \or
276    F\protect\'evrier%
277    \or
278    Mars%
279    \or
280    Avril%
281    \or
282    Mai%
283    \or
284    Juin%
285    \or
286    Juillet%
287    \or
288    Ao\protect\^ut%
289    \or
290    Septembre%
291    \or
292    Octobre%
293    \or
294    Novembre%
295    \or
296    D\protect\'ecembre%
297    \fi
298 }
```

\DTMfrenchshortmonthname   Abbreviated French month names.

```
299 \newcommand*{\DTMfrenchshortmonthname}[1]{%
300    \ifcase#1
301    \or
302    janv.%
303    \or
304    f\protect\'evr.%
305    \or
306    mars%
307    \or
308    avr.%
309    \or
310    mai%
311    \or
312    juin%
313    \or
314    juill.%
315    \or
316    ao\protect\^ut%
317    \or
318    sept.%
319    \or
320    oct.%
321    \or
```

```
322     nov.%
323     \or
324     d\protect\'ec.%
325     \fi
326 }
```

\DTMfrenchshortMonthname   As above but start with a capital.

```
327 \newcommand*{\DTMfrenchshortMonthname}[1]{%
328     \ifcase#1
329     \or
330     Janv.%
331     \or
332     F\protect\'evr.%
333     \or
334     Mars%
335     \or
336     Avr.%
337     \or
338     Mai%
339     \or
340     Juin%
341     \or
342     Juill.%
343     \or
344     Ao\protect\^ut%
345     \or
346     Sept.%
347     \or
348     Oct.%
349     \or
350     Nov.%
351     \or
352     D\protect\'ec.%
353     \fi
354 }
```

\DTMfrenchweekdayname   French day of week names.

```
355 \newcommand*{\DTMfrenchweekdayname}[1]{%
356     \ifcase#1
357     lundi%
358     \or
359     mardi%
360     \or
361     mercredi%
362     \or
363     jeudi%
364     \or
365     vendredi%
366     \or
367     samedi%
```

```
368    \or
369    dimanche%
370    \fi
371 }
```

\DTMfrenchWeekdayname   As above but start with a capital.

```
372 \newcommand*{\DTMfrenchWeekdayname}[1]{%
373    \ifcase#1
374    Lundi%
375    \or
376    Mardi%
377    \or
378    Mercredi%
379    \or
380    Jeudi%
381    \or
382    Vendredi%
383    \or
384    Samedi%
385    \or
386    Dimanche%
387    \fi
388 }
```

\DTMfrenchshortweekdayname   French abbreviated day of week names.

```
389 \newcommand*{\DTMfrenchshortweekdayname}[1]{%
390    \ifcase#1
391    lun.%
392    \or
393    mar.%
394    \or
395    mer.%
396    \or
397    jeu.%
398    \or
399    ven.%
400    \or
401    sam.%
402    \or
403    dim.%
404    \fi
405 }
```

\DTMfrenchshortWeekdayname   As above but start with a capital.

```
406 \newcommand*{\DTMfrenchshortWeekdayname}[1]{%
407    \ifcase#1
408    Lun.%
409    \or
410    Mar.%
```

```
411    \or
412    Mer.%
413    \or
414    Jeu.%
415    \or
416    Ven.%
417    \or
418    Sam.%
419    \or
420    Dim.%
421    \fi
422 }
```

\DTMfrenchmidnight

```
423 \newcommand*\DTMfrenchmidnight{minuit}%
```

\DTMfrenchnoon

```
424 \newcommand*\DTMfrenchnoon{midi}%
```

\DTMfrenchtimesymsep

```
425 \newcommand*\DTMfrenchtimesymsep{\,}%
```

\DTMfrenchhoursym

```
426 \newcommand*\DTMfrenchhoursym{h}%
```

This style ignores seconds.

```
427 \DTMnewtimestyle
428 {frenchalpha}% label
429 {%
430     \renewcommand*\DTMdisplaytime[3]{%
431       \ifnum##2=0
432         \ifnum##1=12
433           \DTMfrenchnoon
434         \else
435           \ifnum##1=0
436             \DTMfrenchmidnight
437           \else
438             \ifnum##1=24
439               \DTMfrenchmidnight
440             \else
441               \number##1
442               \DTMfrenchtimesymsep\DTMfrenchhoursym
443             \fi
444           \fi
445         \fi
446       \else
447         \ifnum##1=24
448           0%
449         \else
```

```
450            \number##1
451          \fi
452          \DTMfrenchtimesymsep\DTMfrenchhoursym
453          \DTMfrenchtimesymsep\DTMtwodigits{##2}%
454        \fi
455     }%
456  }%
```

1.3 Main French Module (`datetime2-french.ldf`)

Identify Module

```
457 \ProvidesDateTimeModule{french}[2017/04/08 v1.02]
```

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

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

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

```
459 \ifxetex
460   \RequireDateTimeModule{french-utf8}
461 \else
462   \ifluatex
463     \RequireDateTimeModule{french-utf8}
464   \else
465     \RequireDateTimeModule{french-ascii}
466   \fi
467 \fi
```

Define the `french` style. The time style is the same as the `default` style provided by datetime2. This may need correcting.

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

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

```
468 \newcommand*{\DTMfrenchdowdaysep}{\space}
```

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

```
469 \newcommand*{\DTMfrenchdaymonthsep}{%
470   \DTMtexorpdfstring{\protect~}{\space}%
471 }
```

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

```
472 \newcommand*{\DTMfrenchmonthyearsep}{\space}
```

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

```
473 \newcommand*{\DTMfrenchdatetimesep}{,\space}
```

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

474 `\newcommand*{\DTMfrenchtimezonesep}{\space}`

\DTMfrenchdatesep The separator for the numeric date format.

475 `\newcommand*{\DTMfrenchdatesep}{/}`

\DTMfrenchtimesep The separator for the numeric time format.

476 `\newcommand*{\DTMfrenchtimesep}{:}`

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

477 `\DTMdefkey{french}{dowdaysep}{\renewcommand*{\DTMfrenchdowdaysep}{#1}}`
478 `\DTMdefkey{french}{daymonthsep}{\renewcommand*{\DTMfrenchdaymonthsep}{#1}}`
479 `\DTMdefkey{french}{monthyearsep}{\renewcommand*{\DTMfrenchmonthyearsep}{#1}}`
480 `\DTMdefkey{french}{datetimesep}{\renewcommand*{\DTMfrenchdatetimesep}{#1}}`
481 `\DTMdefkey{french}{timezonesep}{\renewcommand*{\DTMfrenchtimezonesep}{#1}}`
482 `\DTMdefkey{french}{datesep}{\renewcommand*{\DTMfrenchdatesep}{#1}}`
483 `\DTMdefkey{french}{timesep}{\renewcommand*{\DTMfrenchtimesep}{#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.

484 `\DTMdefboolkey{french}{abbr}[true]{}`

The default is the full name.

485 `\DTMsetbool{french}{abbr}{false}`

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

486 `\DTMdefboolkey{french}{mapzone}[true]{}`

The default is to use mappings.

487 `\DTMsetbool{french}{mapzone}{true}`

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

488 `\DTMdefboolkey{french}{showdayofmonth}[true]{}`

The default is to show the day of month.

489 `\DTMsetbool{french}{showdayofmonth}{true}`

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

490 `\DTMdefboolkey{french}{showyear}[true]{}`

The default is to show the year.

491 `\DTMsetbool{french}{showyear}{true}`

Define the `french` style.

492 `\DTMnewstyle`
493 `{french}% label`
494 `{% date style`
495 `  \renewcommand*\DTMdisplaydate[4]{%`
496 `    \ifDTMshowdow`
497 `      \ifnum##4>-1`

```
498        \DTMifbool{french}{abbr}%
499        {\DTMfrenchshortweekdayname{##4}}%
500        {\DTMfrenchweekdayname{##4}}%
501        \DTMfrenchdowdaysep
502      \fi
503    \fi
504    \DTMifbool{french}{showdayofmonth}%
505    {%
506      \DTMfrenchordinal{##3}%
507      \DTMfrenchdaymonthsep
508    }%
509    {}%
510    \DTMifbool{french}{abbr}%
511    {\DTMfrenchshortmonthname{##2}}%
512    {\DTMfrenchmonthname{##2}}%
513    \DTMifbool{french}{showyear}%
514    {%
515      \DTMfrenchmonthyearsep
516      \number##1 % space intended
517    }%
518    {}%
519  }%
520  \renewcommand*\DTMDisplaydate[4]{%
521    \ifDTMshowdow
522      \ifnum##4>-1
523        \DTMifbool{french}{abbr}%
524        {\DTMfrenchshortWeekdayname{##4}}%
525        {\DTMfrenchWeekdayname{##4}}%
526        \DTMfrenchdowdaysep
527        \DTMifbool{french}{showdayofmonth}%
528        {%
529          \DTMfrenchordinal{##3}%
530          \DTMfrenchdaymonthsep
531        }%
532        {}%
533        \DTMifbool{french}{abbr}%
534        {\DTMfrenchshortmonthname{##2}}%
535        {\DTMfrenchmonthname{##2}}%
536        \DTMifbool{french}{showyear}%
537        {%
538          \DTMfrenchmonthyearsep
539          \number##1 % space intended
540        }%
541        {}%
542      \else
543        \DTMifbool{french}{showdayofmonth}
544        {%
545          \DTMfrenchordinal{##3}%
546          \DTMfrenchdaymonthsep
547          \DTMifbool{french}{abbr}%
```

```
548           {\DTMfrenchshortmonthname{##2}}%
549           {\DTMfrenchmonthname{##2}}%
550         }%
551         {%
552           \DTMifbool{french}{abbr}%
553           {\DTMfrenchshortMonthname{##2}}%
554           {\DTMfrenchMonthname{##2}}%
555         }%
556         \DTMifbool{french}{showyear}%
557         {%
558           \DTMfrenchmonthyearsep
559           \number##1 % space intended
560         }%
561         {}%
562       \fi
563     \else
564       \DTMifbool{french}{showdayofmonth}
565       {%
566        \DTMfrenchordinal{##3}%
567        \DTMfrenchdaymonthsep
568        \DTMifbool{french}{abbr}%
569        {\DTMfrenchshortmonthname{##2}}%
570        {\DTMfrenchmonthname{##2}}%
571       }%
572       {%
573        \DTMifbool{french}{abbr}%
574        {\DTMfrenchshortMonthname{##2}}%
575        {\DTMfrenchMonthname{##2}}%
576       }%
577       \DTMifbool{french}{showyear}%
578       {%
579        \DTMfrenchmonthyearsep
580        \number##1 % space intended
581       }%
582       {}%
583     \fi
584   }%
585 }%
586 {% time style
587   \DTMsettimestyle{frenchalpha}%
588 }%
589 {% zone style
590   \DTMresetzones
591   \DTMfrenchzonemaps
592   \renewcommand*{\DTMdisplayzone}[2]{%
593     \DTMifbool{french}{mapzone}%
594     {\DTMusezonemapordefault{##1}{##2}}%
595     {%
596       \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
597       \ifDTMshowzoneminutes\DTMfrenchtimesep\DTMtwodigits{##2}\fi
```

```
598        }%
599      }%
600  }%
601  {% full style
602    \renewcommand*{\DTMdisplay}[9]{%
603      \ifDTMshowdate
604        \DTMdisplaydate{##1}{##2}{##3}{##4}%
605        \DTMfrenchdatetimesep
606      \fi
607      \DTMdisplaytime{##5}{##6}{##7}%
608      \ifDTMshowzone
609        \DTMfrenchtimezonesep
610        \DTMdisplayzone{##8}{##9}%
611      \fi
612    }%
613    \renewcommand*{\DTMDisplay}[9]{%
614      \ifDTMshowdate
615        \DTMDisplaydate{##1}{##2}{##3}{##4}%
616        \DTMfrenchdatetimesep
617      \fi
618      \DTMdisplaytime{##5}{##6}{##7}%
619      \ifDTMshowzone
620        \DTMfrenchtimezonesep
621        \DTMdisplayzone{##8}{##9}%
622      \fi
623    }%
624  }%
```

Define numeric style.

```
625  \DTMnewstyle
626  {french-numeric}% label
627  {% date style
628      \renewcommand*\DTMdisplaydate[4]{%
629        \DTMifbool{french}{showdayofmonth}%
630        {%
631          \number##3 % space intended
632          \DTMfrenchdatesep
633        }%
634        {}%
635        \number##2 % space intended
636        \DTMifbool{french}{showyear}%
637        {%
638          \DTMfrenchdatesep
639          \number##1 % space intended
640        }%
641        {}%
642      }%
643      \renewcommand*{\DTMDisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
644  }%
645  {% time style
```

```
646    \renewcommand*\DTMdisplaytime[3]{%
647      \number##1
648      \DTMfrenchtimesep\DTMtwodigits{##2}%
649      \ifDTMshowseconds\DTMfrenchtimesep\DTMtwodigits{##3}\fi
650    }%
651  }%
652  {% zone style
653    \DTMresetzones
654    \DTMfrenchzonemaps
655    \renewcommand*{\DTMdisplayzone}[2]{%
656      \DTMifbool{french}{mapzone}%
657      {\DTMusezonemapordefault{##1}{##2}}%
658      {%
659        \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
660        \ifDTMshowzoneminutes\DTMfrenchtimesep\DTMtwodigits{##2}\fi
661      }%
662    }%
663  }%
664  {% full style
665    \renewcommand*{\DTMdisplay}[9]{%
666      \ifDTMshowdate
667        \DTMdisplaydate{##1}{##2}{##3}{##4}%
668        \DTMfrenchdatetimesep
669      \fi
670      \DTMdisplaytime{##5}{##6}{##7}%
671      \ifDTMshowzone
672        \DTMfrenchtimezonesep
673        \DTMdisplayzone{##8}{##9}%
674      \fi
675    }%
676    \renewcommand*{\DTMDisplay}{\DTMdisplay}%
677  }
```

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

```
678 \newcommand*{\DTMfrenchzonemaps}{%
679   \DTMdefzonemap{01}{00}{CET}%
680   \DTMdefzonemap{02}{00}{CEST}%
681 }
```

Switch style according to the useregional setting.

```
682 \DTMifcaseregional
683 {}% do nothing
684 {\DTMsetstyle{french}}
685 {\DTMsetstyle{french-numeric}}
```

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

```
686 \ifcsundef{date\CurrentTrackedDialect}
687 {%
```

```
688  \ifundef\datefrench
689  {% do nothing
690  }%
691  {%
692    \def\datefrench{%
693      \DTMifcaseregional
694      {}% do nothing
695      {\DTMsetstyle{french}}%
696      {\DTMsetstyle{french-numeric}}%
697    }%
698  }%
699 }%
700 {%
701  \csdef{date\CurrentTrackedDialect}{%
702    \DTMifcaseregional
703    {}% do nothing
704    {\DTMsetstyle{french}}%
705    {\DTMsetstyle{french-numeric}}
706  }%
707 }%
```

Change History

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