French Module for datetime2 Package

Nicola L. C. Talbot (inactive)

2015-03-27 (v1.0)

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

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.

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

I don't know if these settings are correct. In particular, I don't know if the `french` time style is correct. Currently this just uses the `default` time style. Please be aware that this may change. Whoever takes over maintanance 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-french.ins` where Name is the name of the maintainer(s) and replace the 'inactive' status to 'maintained'.

Currently there is only a regionless style. New maintainers may want to add regional variants such as `fr-FR`/`fr-FR-numeric` or `fr-BE`/`fr-BE-numeric`. This style currently doesn't check the `showdow` 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}[2015/03/27 v1.0]
```

\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 }%
```

\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 }
```

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

\DTMfrenchweekdayname   These are provided here but not currently used in the date format.

```
71 \newcommand*{\DTMfrenchweekdayname}[1]{%
72    \ifcase#1
73    lundi%
74    \or
75    mardi%
76    \or
77    mercredi%
78    \or
79    jeudi%
80    \or
81    vendredi%
82    \or
83    samedi%
84    \or
85    dimanche%
86    \fi
87 }
```

\DTMfrenchWeekdayname   As above but start with a capital.

```
88 \newcommand*{\DTMfrenchWeekdayname}[1]{%
```

```
 89   \ifcase#1
 90   Lundi%
 91   \or
 92   Mardi%
 93   \or
 94   Mercredi%
 95   \or
 96   Jeudi%
 97   \or
 98   Vendredi%
 99   \or
100   Samedi%
101   \or
102   Dimanche%
103   \fi
104 }
```

1.2   ASCII

This file contains the settings that use LaTeX commands for non-ASCII characters. This should be input if neither XeLaTeX nor LuaLaTeX are used. Even if the user has loaded inputenc with utf8, this file should still be used not the `datetime2-french-utf8.ldf` file as the non-ASCII characters are made active in that situation and would need protecting against expansion. Identify module

```
105 \ProvidesDateTimeModule{french-ascii}[2015/03/27 v1.0]
```

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

\DTMfrenchordinal

```
106 \ifdef\ier
107 {%
108   \newcommand*{\DTMfrenchordinal}[1]{%
109     \number#1
110     \ifnum#1=1\DTMtexorpdfstring{\protect\ier}{er}\fi
111   }
112 }%
113 {%
114   \newcommand*{\DTMfrenchordinal}[1]{%
115     \number#1
116     \ifnum#1=1\DTMtexorpdfstring{\protect\textsuperscript{er}}{er}\fi
117   }
118 }%
```

\DTMfrenchmonthname   French month names.

```
119 \newcommand*{\DTMfrenchmonthname}[1]{%
120   \ifcase#1
121   \or
122   janvier%
```

4

```
123    \or
124    f\protect\'evrier%
125    \or
126    mars%
127    \or
128    avril%
129    \or
130    mai%
131    \or
132    juin%
133    \or
134    juillet%
135    \or
136    ao\protect\^ut%
137    \or
138    septembre%
139    \or
140    octobre%
141    \or
142    novembre%
143    \or
144    d\protect\'ecembre%
145    \fi
146 }
```

\DTMfrenchMonthname   As above but start with a capital.

```
147 \newcommand*{\DTMfrenchMonthname}[1]{%
148    \ifcase#1
149    \or
150    Janvier%
151    \or
152    F\protect\'evrier%
153    \or
154    Mars%
155    \or
156    Avril%
157    \or
158    Mai%
159    \or
160    Juin%
161    \or
162    Juillet%
163    \or
164    Ao\protect\^ut%
165    \or
166    Septembre%
167    \or
168    Octobre%
169    \or
170    Novembre%
```

```
171    \or
172    D\protect\'ecembre%
173    \fi
174 }
```

\DTMfrenchweekdayname These are provided here but not currently used in the date format.

```
175 \newcommand*{\DTMfrenchweekdayname}[1]{%
176    \ifcase#1
177    lundi%
178    \or
179    mardi%
180    \or
181    mercredi%
182    \or
183    jeudi%
184    \or
185    vendredi%
186    \or
187    samedi%
188    \or
189    dimanche%
190    \fi
191 }
```

\DTMfrenchWeekdayname As above but start with a capital.

```
192 \newcommand*{\DTMfrenchWeekdayname}[1]{%
193    \ifcase#1
194    Lundi%
195    \or
196    Mardi%
197    \or
198    Mercredi%
199    \or
200    Jeudi%
201    \or
202    Vendredi%
203    \or
204    Samedi%
205    \or
206    Dimanche%
207    \fi
208 }
```

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

Identify Module

```
209 \ProvidesDateTimeModule{french}[2015/03/27 v1.0]
```

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

```
210 \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`.

```
211 \ifxetex
212 \RequireDateTimeModule{french-utf8}
213 \else
214 \ifluatex
215   \RequireDateTimeModule{french-utf8}
216 \else
217   \RequireDateTimeModule{french-ascii}
218 \fi
219 \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.

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

```
220 \newcommand*{\DTMfrenchdaymonthsep}{\space}
```

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

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

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

```
222 \newcommand*{\DTMfrenchdatetimesep}{\space}
```

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

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

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

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

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

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

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

```
226 \DTMdefkey{french}{daymonthsep}{\renewcommand*{\DTMfrenchdaymonthsep}{#1}}
227 \DTMdefkey{french}{monthyearsep}{\renewcommand*{\DTMfrenchmonthyearsep}{#1}}
228 \DTMdefkey{french}{datetimesep}{\renewcommand*{\DTMfrenchdatetimesep}{#1}}
229 \DTMdefkey{french}{timezonesep}{\renewcommand*{\DTMfrenchtimezonesep}{#1}}
230 \DTMdefkey{french}{datesep}{\renewcommand*{\DTMfrenchdatesep}{#1}}
231 \DTMdefkey{french}{timesep}{\renewcommand*{\DTMfrenchtimesep}{#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.

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

The default is to use mappings.

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

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

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

The default is to show the day of month.

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

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

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

The default is to show the year.

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

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

```
238 \DTMnewstyle
239 {french}% label
240 {% date style
241    \renewcommand*\DTMdisplaydate[4]{%
242      \DTMifbool{french}{showdayofmonth}
243      {\DTMfrenchordinal{##3}\DTMfrenchdaymonthsep}%
244      {}%
245      \DTMfrenchmonthname{##2}%
246      \DTMifbool{french}{showyear}%
247      {%
248        \DTMfrenchmonthyearsep
249        \number##1 % space intended
250      }%
251      {}%
252    }%
253    \renewcommand*\DTMDisplaydate[4]{%
254      \DTMifbool{french}{showdayofmonth}
255      {%
256        \DTMfrenchordinal{##3}\DTMfrenchdaymonthsep
257        \DTMfrenchmonthname{##2}%
258      }%
259      {\DTMfrenchMonthname{##2}}%
260      \DTMifbool{french}{showyear}%
261      {%
262        \DTMfrenchmonthyearsep
263        \number##1 % space intended
264      }%
265      {}%
266    }%
267 }%
268 {% time style (use default)
269    \DTMsettimestyle{default}%
270 }%
271 {% zone style
272    \DTMresetzones
```

```
273    \DTMfrenchzonemaps
274    \renewcommand*{\DTMdisplayzone}[2]{%
275      \DTMifbool{french}{mapzone}%
276      {\DTMusezonemapordefault{##1}{##2}}%
277      {%
278        \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
279        \ifDTMshowzoneminutes\DTMfrenchtimesep\DTMtwodigits{##2}\fi
280      }%
281    }%
282  }%
283  {% full style
284    \renewcommand*{\DTMdisplay}[9]{%
285      \ifDTMshowdate
286      \DTMdisplaydate{##1}{##2}{##3}{##4}%
287      \DTMfrenchdatetimesep
288      \fi
289      \DTMdisplaytime{##5}{##6}{##7}%
290      \ifDTMshowzone
291      \DTMfrenchtimezonesep
292      \DTMdisplayzone{##8}{##9}%
293      \fi
294    }%
295    \renewcommand*{\DTMDisplay}[9]{%
296      \ifDTMshowdate
297      \DTMDisplaydate{##1}{##2}{##3}{##4}%
298      \DTMfrenchdatetimesep
299      \fi
300      \DTMdisplaytime{##5}{##6}{##7}%
301      \ifDTMshowzone
302      \DTMfrenchtimezonesep
303      \DTMdisplayzone{##8}{##9}%
304      \fi
305    }%
306  }%
```

Define numeric style.

```
307 \DTMnewstyle
308 {french-numeric}% label
309 {% date style
310    \renewcommand*\DTMdisplaydate[4]{%
311      \DTMifbool{french}{showdayofmonth}%
312      {%
313        \number##3 % space intended
314        \DTMfrenchdatesep
315      }%
316      {}%
317      \number##2 % space intended
318      \DTMifbool{french}{showyear}%
319      {%
320        \DTMfrenchdatesep
```

```
321        \number##1 % space intended
322      }%
323      {}%
324    }%
325    \renewcommand*{\DTMDisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
326  }%
327  {% time style
328    \renewcommand*\DTMdisplaytime[3]{%
329      \number##1
330      \DTMfrenchtimesep\DTMtwodigits{##2}%
331      \ifDTMshowseconds\DTMfrenchtimesep\DTMtwodigits{##3}\fi
332    }%
333  }%
334  {% zone style
335    \DTMresetzones
336    \DTMfrenchzonemaps
337    \renewcommand*{\DTMdisplayzone}[2]{%
338      \DTMifbool{french}{mapzone}%
339      {\DTMusezonemapordefault{##1}{##2}}%
340      {%
341        \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
342        \ifDTMshowzoneminutes\DTMfrenchtimesep\DTMtwodigits{##2}\fi
343      }%
344    }%
345  }%
346  {% full style
347    \renewcommand*{\DTMdisplay}[9]{%
348      \ifDTMshowdate
349      \DTMdisplaydate{##1}{##2}{##3}{##4}%
350      \DTMfrenchdatetimesep
351      \fi
352      \DTMdisplaytime{##5}{##6}{##7}%
353      \ifDTMshowzone
354      \DTMfrenchtimezonesep
355      \DTMdisplayzone{##8}{##9}%
356      \fi
357    }%
358    \renewcommand*{\DTMDisplay}{\DTMdisplay}%
359  }
```

\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.

```
360 \newcommand*{\DTMfrenchzonemaps}{%
361   \DTMdefzonemap{01}{00}{CET}%
362   \DTMdefzonemap{02}{00}{CEST}%
363 }
```

Switch style according to the `useregional` setting.

```
364 \DTMifcaseregional
365 {}% do nothing
```

```
366 {\DTMsetstyle{french}}
367 {\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.)

```
368 \ifcsundef{date\CurrentTrackedDialect}
369 {%
370   \ifundef\datefrench
371   {% do nothing
372   }%
373   {%
374     \def\datefrench{%
375       \DTMifcaseregional
376       {}% do nothing
377       {\DTMsetstyle{french}}%
378       {\DTMsetstyle{french-numeric}}%
379     }%
380   }%
381 }%
382 {%
383   \csdef{date\CurrentTrackedDialect}{%
384     \DTMifcaseregional
385     {}% do nothing
386     {\DTMsetstyle{french}}%
387     {\DTMsetstyle{french-numeric}}
388   }%
389 }%
```

Change History

1.0

    General: Initial release 1, 4, 6

Index