

Italian Module for datetime2 Package

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

Abstract

This is the Italian 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.

`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{italian-utf8}[2015/04/10 v1.1]
```

```
\DTMitalianordinal
```

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

```
\DTMitalianmonthname Italian month names.
```

```
5 \newcommand*{\DTMitalianmonthname}[1]{%
6   \ifcase#1
7     gennaio%
8   \or
9     febbraio%
```

```

10 \or
11 marzo%
12 \or
13 aprile%
14 \or
15 maggio%
16 \or
17 giugno%
18 \or
19 luglio%
20 \or
21 agosto%
22 \or
23 settembre%
24 \or
25 ottobre%
26 \or
27 novembre%
28 \or
29 dicembre%
30 \fi
31 }

```

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

```

32 \newcommand*{\DTMitalianweekdayname}[1]{%
33 \ifcase#1
34 lunedì%
35 \or
36 martedì%
37 \or
38 mercoledì%
39 \or
40 giovedì%
41 \or
42 venerdì%
43 \or
44 sabato%
45 \or
46 domenica%
47 \fi
48 }

```

\DTMitalianshortmonthname short mont.

```

49 \newcommand*{\DTMitalianshortmonthname}[1]{%
50 \ifcase#1
51 gen.%
52 \or
53 feb.%
54 \or
55 mar.%

```

```

56 \or
57 apr.%
58 \or
59 mag.%
60 \or
61 giun.%
62 \or
63 lug.%
64 \or
65 aug.%
66 \or
67 set.%
68 \or
69 ott.%
70 \or
71 nov.%
72 \or
73 dic.%
74 \fi
75 }

```

```

\DTMitalianshortweekdayname short week day.
76 \newcommand*{\DTMitalianshortweekdayname}[1]{%
77 \ifcase#1
78 lun.%
79 \or
80 mar.%
81 \or
82 mer.%
83 \or
84 gio.%
85 \or
86 ven.%
87 \or
88 sab.%
89 \or
90 dom.%
91 \fi
92 }

```

1.2 ASCII

This file contains the settings that use L^AT_EX 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-italian-utf8.ldf` file as the non-ASCII characters are made active in that situation and would need protecting against expansion. Identify module

```

93 \ProvidesDateTimeModule{italian-ascii}[2015/04/10 v1.1]

```

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

`\DTMitalianordinal`

```
94 \newcommand*{\DTMitalianordinal}[1]{%
95   \number#1
96 }%
```

`\DTMitalianmonthname` Italian month names.

```
97 \newcommand*{\DTMitalianmonthname}[1]{%
98   \ifcase#1
99   \or
100   gennaio%
101   \or
102   febbraio%
103   \or
104   marzo%
105   \or
106   aprile%
107   \or
108   maggio%
109   \or
110   giugno%
111   \or
112   luglio%
113   \or
114   agosto%
115   \or
116   settembre%
117   \or
118   ottobre%
119   \or
120   novembre%
121   \or
122   dicembre%
123   \fi
124 }
```

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

```
125 \newcommand*{\DTMitalianweekdayname}[1]{%
126   \ifcase#1
127   lunedì\protect\'i%
128   \or
129   martedì\protect\'i%
130   \or
131   mercoledì\protect\'i%
132   \or
133   giovedì\protect\'i%
134   \or
135   venerdì\protect\'i%
```

```

136 \or
137 sabato%
138 \or
139 domenica%
140 \fi
141 }

```

\DTMitalianshortmonthname short mont.

```

142 \newcommand*{\DTMitalianshortmonthname}[1]{%
143 \ifcase#1
144 \or
145 gen.%
146 \or
147 feb.%
148 \or
149 mar.%
150 \or
151 apr.%
152 \or
153 mag.%
154 \or
155 giun.%
156 \or
157 lug.%
158 \or
159 aug.%
160 \or
161 set.%
162 \or
163 ott.%
164 \or
165 nov.%
166 \or
167 dic.%
168 \fi
169 }

```

\DTMitalianshortweekdayname short week day.

```

170 \newcommand*{\DTMitalianshortweekdayname}[1]{%
171 \ifcase#1
172 lun.%
173 \or
174 mar.%
175 \or
176 mer.%
177 \or
178 gio.%
179 \or
180 ven.%
181 \or

```

```

182 sab.%
183 \or
184 dom.%
185 \fi
186 }

```

1.3 Main Italian Module (datetime2-italian.1df)

Identify Module

```
187 \ProvidesDateTimeModule{italian}[2015/04/10 v1.1]
```

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

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

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

```

189 \ifxetex
190   \RequireDateTimeModule{italian-utf8}
191 \else
192   \ifluatex
193     \RequireDateTimeModule{italian-utf8}
194   \else
195     \RequireDateTimeModule{italian-ascii}
196   \fi
197 \fi

```

Define the `italian` 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 `italian` and `italian-numeric` styles. This doesn't use the package wide separators such as `\dtm@datetimesep` in case other date formats are also required.

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

```
198 \newcommand*{\DTMitaliandaymonthsep}{\space}
```

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

```
199 \newcommand*{\DTMitalianmonthyearsep}{\space}
```

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

```
200 \newcommand*{\DTMitaliandatetimesep}{\space}
```

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

```
201 \newcommand*{\DTMitaliantimezonesep}{\space}
```

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

```
202 \newcommand*{\DTMitaliandatesep}{/}
```

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

```
203 \newcommand*\DTMitaliantimesep{:}
```

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

```
204 \DTMdefkey{italian}{daymonthsep}{\renewcommand*\DTMitaliandaymonthsep}{#1}}
205 \DTMdefkey{italian}{monthyearsep}{\renewcommand*\DTMitalianmonthyearsep}{#1}}
206 \DTMdefkey{italian}{datetimesep}{\renewcommand*\DTMitaliandatetimesep}{#1}}
207 \DTMdefkey{italian}{timezonesep}{\renewcommand*\DTMitaliantimezonesep}{#1}}
208 \DTMdefkey{italian}{datesep}{\renewcommand*\DTMitaliandatesep}{#1}}
209 \DTMdefkey{italian}{timesep}{\renewcommand*\DTMitaliantimesep}{#1}}
```

Define a boolean key that determines if the shortened form should be used.

```
210 \DTMdefboolkey{italian}{abbr}[true]{}
```

The default is to use abbr

```
211 \DTMsetbool{italian}{abbr}{false}
```

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

```
212 \DTMdefboolkey{italian}{mapzone}[true]{}
```

The default is to use mappings.

```
213 \DTMsetbool{italian}{mapzone}{true}
```

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

```
214 \DTMdefboolkey{italian}{showdayofmonth}[true]{}
```

The default is to show the day of month.

```
215 \DTMsetbool{italian}{showdayofmonth}{true}
```

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

```
216 \DTMdefboolkey{italian}{showyear}[true]{}
```

The default is to show the year.

```
217 \DTMsetbool{italian}{showyear}{true}
```

```
218 \newcommand*\DTMitalianam{am}%
```

```
219 \newcommand*\DTMitalianpm{pm}%
```

```
220 \newcommand*\DTMitalianmidnight{mezzanotte}%
```

```
221 \newcommand*\DTMitaliannoontime{mezzogiorno}%
```

```
222 \newcommand*\DTMitalianampmfmt[1]{#1}
```

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

```
223 \DTMnewstyle
```

```
224 {italian}% label
```

```
225 {% date style
```

```
226 % \renewcommand*\DTMitalianfmtordsuffix{\DTMitalianfmtordsuffix}%
```

```
227 \renewcommand*\DTMdisplaydate[4]{%
```

```
228 \ifDTMshowdow
```

```
229 \ifnum##4>-1%
```

```
230 \DTMifbool{italian}{abbr}%
```

```

231 {\DTMitalianshortweekdayname{##4}}%
232 {\DTMitalianweekdayname{##4}}%
233 \space
234 \fi
235 \fi
236 \DTMifbool{italian}{showdayofmonth}%
237 {%
238 \DTMitalianordinal{##3}%
239 \DTMitaliandaymonthsep
240 }%
241 {}%
242 \DTMifbool{italian}{abbr}%
243 {\DTMitalianshortmonthname{##2}}%
244 {\DTMitalianmonthname{##2}}%
245 \DTMifbool{italian}{showyear}%
246 {%
247 \DTMitalianmonthyearsep\number##1 % space intended
248 }%
249 {}%
250 }%
251 \renewcommand*\DTMDisplaydate[4]{%
252 \ifDTMshowdow
253 \ifnum##4>-1%
254 \DTMifbool{italian}{abbr}%
255 {\DTMitalianshortweekdayname{##4}}%
256 {\DTMitalianweekdayname{##4}}%
257 \space
258 \fi
259 \fi
260 \DTMifbool{italian}{showdayofmonth}%
261 {%
262 \DTMitalianordinal{##3}%
263 \DTMitaliandaymonthsep
264 }%
265 {}%
266 \DTMifbool{italian}{abbr}%
267 {\DTMitalianshortmonthname{##2}}%
268 {\DTMitalianmonthname{##2}}%
269 \DTMifbool{italian}{showyear}%
270 {%
271 \DTMitalianmonthyearsep\number##1 % space intended
272 }%
273 {}%
274 }%
275 }%
276 {% time style
277 \renewcommand*\DTMitaliantimesep{\DTMitaliantimesep}%
278 \DTMsettimestyle{default}%ampm
279 }%
280 {% zone style

```



```

281 \DTMresetzones
282 \DTMitalianzonemaps
283 \renewcommand*{\DTMdisplayzone}[2]{%
284 \DTMifbool{italian}{mapzone}%
285 {\DTMuseumaportdefault{##1}{##2}}%
286 {%
287 \ifnum##1<0\else+\fi\DTMtwdigits{##1}%
288 \ifDTMshowzoneminutes\DTMitaliantimesep\DTMtwdigits{##2}\fi
289 }%
290 }%
291 }%
292 {% full style
293 \renewcommand*{\DTMdisplay}[9]{%
294 \ifDTMshowdate
295 \DTMdisplaydate{##1}{##2}{##3}{##4}%
296 \DTMitaliandatetimesep
297 \fi
298 \DTMdisplaytime{##5}{##6}{##7}%
299 \ifDTMshowzone
300 \DTMitaliantimezonesep
301 \DTMdisplayzone{##8}{##9}%
302 \fi
303 }%
304 \renewcommand*{\DTMDisplay}[9]{%
305 \ifDTMshowdate
306 \DTMDisplaydate{##1}{##2}{##3}{##4}%
307 \DTMitaliandatetimesep
308 \fi
309 \DTMdisplaytime{##5}{##6}{##7}%
310 \ifDTMshowzone
311 \DTMitaliantimezonesep
312 \DTMdisplayzone{##8}{##9}%
313 \fi
314 }%
315 }%

```

Define numeric style.

```

316 \DTMnewstyle
317 {italian-numeric}% label
318 {% date style
319 \renewcommand*{\DTMdisplaydate}[4]{%
320 \DTMifbool{italian}{showdayofmonth}%
321 {%
322 \number##3 % space intended
323 \DTMitaliandatesep
324 }%
325 }%
326 \number##2 % space intended
327 \DTMifbool{italian}{showyear}%
328 {%

```

```

329         \DTMitaliandatesep
330         \number##1 % space intended
331     }%
332     {}%
333 }%
334 \renewcommand*{\DTMdisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
335 }%
336 {% time style
337     \renewcommand*{\DTMdisplaytime}[3]{%
338         \number##1
339         \DTMitaliantimesep\DTMtwodigits{##2}%
340         \ifDTMshowseconds\DTMitaliantimesep\DTMtwodigits{##3}\fi
341     }%
342 }%
343 {% zone style
344     \DTMresetzones
345     \DTMitalianzonemaps
346     \renewcommand*{\DTMdisplayzone}[2]{%
347         \DTMifbool{italian}{mapzone}%
348         {\DTMusedzonemapordefault{##1}{##2}}%
349         {%
350             \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
351             \ifDTMshowzoneminutes\DTMitaliantimesep\DTMtwodigits{##2}\fi
352         }%
353     }%
354 }%
355 {% full style
356     \renewcommand*{\DTMdisplay}[9]{%
357         \ifDTMshowdate
358             \DTMdisplaydate{##1}{##2}{##3}{##4}%
359             \DTMitaliandatetimesep
360             \fi
361             \DTMdisplaytime{##5}{##6}{##7}%
362             \ifDTMshowzone
363                 \DTMitaliantimezonesep
364                 \DTMdisplayzone{##8}{##9}%
365             \fi
366         }%
367     \renewcommand*{\DTMdisplay}{\DTMdisplay}%
368 }

Define am pm style.

369 \DTMnewtimestyle
370 {italianampm}% label
371 {%
372     \renewcommand*{\DTMdisplaytime}[3]{%
373         \ifnum##2=0
374         \ifnum##1=12
375             \DTMtexpdfstring
376             {\DTMitalianampmfmt{\DTMitaliannoon}}}%

```

```

377 {\DTMitaliannoon}%
378 \else
379 \ifnum##1=0
380 \DTMtexorpdfstring
381 {\DTMitalianampmfmt{\DTMitalianmidnight}}%
382 {\DTMitalianmidnight}%
383 \else
384 \ifnum##1=24
385 \DTMtexorpdfstring
386 {\DTMitalianampmfmt{\DTMitalianmidnight}}%
387 {\DTMitalianmidnight}%
388 \else
389 \ifnum##1<12
390 \number##1
391 \DTMtexorpdfstring
392 {\DTMitalianampmfmt{\DTMitalianam}}%
393 {\DTMitalianam}%
394 \else
395 \number\numexpr##1-12\relax
396 \DTMtexorpdfstring
397 {\DTMitalianampmfmt{\DTMitalianpm}}%
398 {\DTMitalianpm}%
399 \fi
400 \fi
401 \fi
402 \fi
403 \else
404 \ifnum##1<13
405 \ifnum##1=0
406 12%
407 \else
408 \number##1
409 \fi
410 \DTMitaliantimesep\DTMtwodigits{##2}%
411 \ifnum##1=12
412 \DTMtexorpdfstring
413 {\DTMitalianampmfmt{\DTMitalianam}}%
414 {\DTMitalianpm}%
415 \else
416 \DTMtexorpdfstring
417 {\DTMitalianampmfmt{\DTMitalianam}}%
418 {\DTMitalianam}%
419 \fi
420 \else
421 \number\numexpr##1-12\relax
422 \DTMitaliantimesep\DTMtwodigits{##2}%
423 \ifnum##1=24
424 \DTMtexorpdfstring
425 {\DTMitalianampmfmt{\DTMitalianpm}}%
426 {\DTMitalianam}%

```

```

427 \else
428 \DTMtexpdfstring
429 {\DTMitalianampmfmt{\DTMitalianpm}}%
430 {\DTMitalianpm}%
431 \fi
432 \fi
433 \fi
434 }%
435 }%

```

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

```

436 \newcommand*{\DTMitalianzonemaps}{%
437 \DTMdefzonemap{01}{00}{CET}%
438 \DTMdefzonemap{02}{00}{CEST}%
439 }

```

Switch style according to the `useregional` setting.

```

440 \DTMifcaseregional
441 {}% do nothing
442 {\DTMsetstyle{italian}}
443 {\DTMsetstyle{italian-numeric}}

```

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

```

444 \ifcsundef{date\CurrentTrackedDialect}
445 {%
446 \ifundef\dateitalian
447 {% do nothing
448 }%
449 {%
450 \def\dateitalian{%
451 \DTMifcaseregional
452 }% do nothing
453 {\DTMsetstyle{italian}}%
454 {\DTMsetstyle{italian-numeric}}%
455 }%
456 }%
457 }%
458 {%
459 \csdef{date\CurrentTrackedDialect}{%
460 \DTMifcaseregional
461 {}% do nothing
462 {\DTMsetstyle{italian}}%
463 {\DTMsetstyle{italian-numeric}}
464 }%
465 }%

```