

Italian Module for datetime2 Package

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This module is currently maintained and may be subject to change.
The Current Maintainer of this work is Claudio Duchi claduc at libero dot it

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}[2015/05/01 v1.3]
```

```
\DTMitalianordinal
```

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

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

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

```

12 marzo%
13 \or
14 aprile%
15 \or
16 maggio%
17 \or
18 giugno%
19 \or
20 luglio%
21 \or
22 agosto%
23 \or
24 settembre%
25 \or
26 ottobre%
27 \or
28 novembre%
29 \or
30 dicembre%
31 \fi
32 }

```

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

```

33 \newcommand*{\DTMitalianweekdayname}[1]{%
34 \ifcase#1
35 lunedì%
36 \or
37 martedì%
38 \or
39 mercoledì%
40 \or
41 giovedì%
42 \or
43 venerdì%
44 \or
45 sabato%
46 \or
47 domenica%
48 \fi
49 }

```

`\DTMitalianshortmonthname` short mont.

```

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

```

```

58 \or
59 apr.%
60 \or
61 mag.%
62 \or
63 giun.%
64 \or
65 lug.%
66 \or
67 aug.%
68 \or
69 set.%
70 \or
71 ott.%
72 \or
73 nov.%
74 \or
75 dic.%
76 \fi
77 }

```

`\DTMitalianshortweekdayname` short week day.

```

78 \newcommand*{\DTMitalianshortweekdayname}[1]{%
79 \ifcase#1
80 lun.%
81 \or
82 mar.%
83 \or
84 mer.%
85 \or
86 gio.%
87 \or
88 ven.%
89 \or
90 sab.%
91 \or
92 dom.%
93 \fi
94 }

```

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-italian-utf8.lfd` file as the non-ASCII characters are made active in that situation and would need protecting against expansion. Identify module

```

95 \ProvidesDateTimeModule{italian-ascii}[2015/05/01 v1.3]

```

`\DTMitalianordinal`

```
96 \newcommand*{\DTMitalianordinal}[1]{%  
97   \number#1  
98 }%
```

`\DTMitalianmonthname` Italian month names.

```
99 \newcommand*{\DTMitalianmonthname}[1]{%  
100   \ifcase#1  
101   \or  
102   gennaio%  
103   \or  
104   febbraio%  
105   \or  
106   marzo%  
107   \or  
108   aprile%  
109   \or  
110   maggio%  
111   \or  
112   giugno%  
113   \or  
114   luglio%  
115   \or  
116   agosto%  
117   \or  
118   settembre%  
119   \or  
120   ottobre%  
121   \or  
122   novembre%  
123   \or  
124   dicembre%  
125   \fi  
126 }
```

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

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

```
140 \or
141 domenica%
142 \fi
143 }
```

\DTMitalianshortmonthname short mont.

```
144 \newcommand*{\DTMitalianshortmonthname}[1]{%
145 \ifcase#1
146 \or
147 gen.%
148 \or
149 feb.%
150 \or
151 mar.%
152 \or
153 apr.%
154 \or
155 mag.%
156 \or
157 giun.%
158 \or
159 lug.%
160 \or
161 aug.%
162 \or
163 set.%
164 \or
165 ott.%
166 \or
167 nov.%
168 \or
169 dic.%
170 \fi
171 }
```

\DTMitalianshortweekdayname short week day.

```
172 \newcommand*{\DTMitalianshortweekdayname}[1]{%
173 \ifcase#1
174 lun.%
175 \or
176 mar.%
177 \or
178 mer.%
179 \or
180 gio.%
181 \or
182 ven.%
183 \or
184 sab.%
185 \or
```

```

186 dom.%
187 \fi
188 }

```

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

Identify Module

```

189 \ProvidesDateTimeModule{italian}[2015/05/01 v1.3]
    Need to find out if XeTeX or LuaTeX are being used.
190 \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.
191 \ifxetex
192   \RequireDateTimeModule{italian-utf8}
193 \else
194   \ifluatex
195     \RequireDateTimeModule{italian-utf8}
196   \else
197     \RequireDateTimeModule{italian-ascii}
198   \fi
199 \fi

```

Define the `italian` style. The time style is the same as the default style provided by `datetime2`.

the packet defines the styles: `italian`, `italian-numeric`, `italianampm` and `italian-twenty-four` 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.
200 \newcommand*\DTMitaliandaymonthsep{\space}

\DTMitalianmonthyearsep The separator between the month and year for the text format.
201 \newcommand*\DTMitalianmonthyearsep{\space}

\DTMitaliandatetimesep The separator between the date and time blocks in the full format (either text or
numeric).
202 \newcommand*\DTMitaliandatetimesep{\space}

\DTMitaliantimezonesep The separator between the time and zone blocks in the full format (either text or
numeric).
203 \newcommand*\DTMitaliantimezonesep{\space}

\DTMitaliandatesep The separator for the numeric date format.
204 \newcommand*\DTMitaliandatesep{/}

\DTMitaliantimesep The separator for the numeric time format.
205 \newcommand*\DTMitaliantimesep{:}

```

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

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

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

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

The default is to use abbr

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

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

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

The default is to use mappings.

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

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

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

The default is to show the day of month.

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

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

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

The default is to show the year.

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

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

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

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

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

```
224 \newcommand*\DTMitalianampfmt}[1]{#1}
```

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

```
225 \DTMnewstyle
```

```
226 {italian}% label
```

```
227 {% date style
```

```
228 % \renewcommand*\DTMitalianfmtordsuffix{\DTMitalianfmtordsuffix}%
```

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

```
230 \ifDTMshowdow
```

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

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

```
233 {\DTMitalianshortweekdayname{##4}}%
```

```
234 {\DTMitalianweekdayname{##4}}%
```

```
235 \space
```

```
236 \fi
```

```

237 \fi
238 \DTMifbool{italian}{showdayofmonth}%
239 {%
240 \DTMitalianordinal{##3}%
241 \DTMitaliandaymonthsep
242 }%
243 {}%
244 \DTMifbool{italian}{abbr}%
245 {\DTMitalianshortmonthname{##2}}%
246 {\DTMitalianmonthname{##2}}%
247 \DTMifbool{italian}{showyear}%
248 {%
249 \DTMitalianmonthyearsep\number##1 % space intended
250 }%
251 {}%
252 }%
253 \renewcommand*\DTMDisplaydate[4]{%
254 \ifDTMshowdo
255 \ifnum##4>-1%
256 \DTMifbool{italian}{abbr}%
257 {\DTMitalianshortweekdayname{##4}}%
258 {\DTMitalianweekdayname{##4}}%
259 \space
260 \fi
261 \fi
262 \DTMifbool{italian}{showdayofmonth}%
263 {%
264 \DTMitalianordinal{##3}%
265 \DTMitaliandaymonthsep
266 }%
267 {}%
268 \DTMifbool{italian}{abbr}%
269 {\DTMitalianshortmonthname{##2}}%
270 {\DTMitalianmonthname{##2}}%
271 \DTMifbool{italian}{showyear}%
272 {%
273 \DTMitalianmonthyearsep\number##1 % space intended
274 }%
275 {}%
276 }%
277 }%
278 {% time style
279 \renewcommand*\DTMitaliantimesep{\DTMitaliantimesep}%
280 \DTMsettimestyle{default}%
281 }%
282 {% zone style
283 \DTMresetzones
284 \DTMitalianzonemaps
285 \renewcommand*\DTMdisplayzone}[2]{%
286 \DTMifbool{italian}{mapzone}%

```



```

287 {\DTMusezonemapordefault{##1}{##2}}%
288 {%
289 \ifnum##1<0\else\fi\DTMtwodigits{##1}%
290 \ifDTMshowzoneminutes\DTMitaliantimesep\DTMtwodigits{##2}\fi
291 }%
292 }%
293 }%
294 {% full style
295 \renewcommand*\DTMdisplay}[9]{%
296 \ifDTMshowdate
297 \DTMdisplaydate{##1}{##2}{##3}{##4}%
298 \DTMitaliandatetimesep
299 \fi
300 \DTMdisplaytime{##5}{##6}{##7}%
301 \ifDTMshowzone
302 \DTMitaliantimezonesep
303 \DTMdisplayzone{##8}{##9}%
304 \fi
305 }%
306 \renewcommand*\DTMDisplay}[9]{%
307 \ifDTMshowdate
308 \DTMDisplaydate{##1}{##2}{##3}{##4}%
309 \DTMitaliandatetimesep
310 \fi
311 \DTMdisplaytime{##5}{##6}{##7}%
312 \ifDTMshowzone
313 \DTMitaliantimezonesep
314 \DTMdisplayzone{##8}{##9}%
315 \fi
316 }%
317 }%

```

Define numeric style.

```

318 \DTMnewstyle
319 {italian-numeric}% label
320 {% date style
321   \renewcommand*\DTMdisplaydate[4]{%
322     \DTMifbool{italian}{showdayofmonth}%
323     {%
324       \number##3 % space intended
325       \DTMitaliandatesep
326     }%
327   }%
328   \number##2 % space intended
329   \DTMifbool{italian}{showyear}%
330   {%
331     \DTMitaliandatesep
332     \number##1 % space intended
333   }%
334 }%

```

```

335 }%
336 \renewcommand*\DTMdisplaydate[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
337 }%
338 {% time style
339 \renewcommand*\DTMdisplaytime[3]{%
340 \number##1
341 \DTMitaliantimesep\DTMtwodigits{##2}%
342 \ifDTMshowseconds\DTMitaliantimesep\DTMtwodigits{##3}\fi
343 }%
344 }%
345 {% zone style
346 \DTMresetzones
347 \DTMitalianzonemaps
348 \renewcommand*\DTMdisplayzone[2]{%
349 \DTMifbool{italian}{mapzone}%
350 {\DTMusezonemapordefault{##1}{##2}}%
351 {%
352 \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
353 \ifDTMshowzoneminutes\DTMitaliantimesep\DTMtwodigits{##2}\fi
354 }%
355 }%
356 }%
357 {% full style
358 \renewcommand*\DTMdisplay[9]{%
359 \ifDTMshowdate
360 \DTMdisplaydate{##1}{##2}{##3}{##4}%
361 \DTMitaliandatetimesep
362 \fi
363 \DTMdisplaytime{##5}{##6}{##7}%
364 \ifDTMshowzone
365 \DTMitaliantimezonesep
366 \DTMdisplayzone{##8}{##9}%
367 \fi
368 }%
369 \renewcommand*\DTMdisplay}{\DTMdisplay}%
370 }

Define am pm style.
371 \DTMnewtimestyle
372 {italianampm}% label
373 {%
374 \renewcommand*\DTMdisplaytime[3]{%
375 \ifnum##2=0
376 \ifnum##1=12
377 \DTMtexorpdfstring
378 {\DTMitalianampfmt{\DTMitaliannoon}}%
379 {\DTMitaliannoon}%
380 \else
381 \ifnum##1=0
382 \DTMtexorpdfstring

```

```

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

```

```

433 \fi
434 \fi
435 \fi
436 }%
437 }%
    Define italian-twenty-four style.

438 \DTMnewtimestyle
439 {italian-twenty-four}% label
440 {%
441 \renewcommand*{\DTMdisplaytime[3]}{%
442 \ifnum##2=0
443 \ifnum##1=12
444 \DTMtexorpdfstring
445 {\DTMitalianampfmt{\DTMitaliannoon}}%
446 {\DTMitaliannoon}%
447 \else
448 \ifnum##1=0
449 \DTMtexorpdfstring
450 {\DTMitalianampfmt{\DTMitalianmidnight}}%
451 {\DTMitalianmidnight}%
452 \else
453 \ifnum##1=24
454 \DTMtexorpdfstring
455 {\DTMitalianampfmt{\DTMitalianmidnight}}%
456 {\DTMitalianmidnight}%
457 \else
458 \ifnum##1<12
459 \DTMtwodigits{##1}\DTMitaliantimesep\DTMtwodigits{##2}%
460 \else
461 \DTMtwodigits{##1}\DTMitaliantimesep\DTMtwodigits{##2}%
462 \fi
463 \fi
464 \fi
465 \fi
466 \else
467 \ifnum##1<13
468 \ifnum##1=0
469 \DTMtwodigits{##1}%
470 \else
471 \DTMtwodigits{##1}\relax
472 \fi
473 \DTMitaliantimesep\DTMtwodigits{##2}%
474 \else
475 \DTMtwodigits{##1}\relax
476 \DTMitaliantimesep\DTMtwodigits{##2}%
477 \fi
478 \fi
479 }%
480 }%

```

`\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.

```
481 \newcommand*\DTMitalianzonemaps}{%
482 \DTMdefzonemap{01}{00}{CET}%
483 \DTMdefzonemap{02}{00}{CEST}%
484 }
```

Switch style according to the `useregional` setting.

```
485 \DTMifcaseregional
486 {}% do nothing
487 {\DTMsetstyle{italian}}
488 {\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.)

```
489 \ifcsundef{date\CurrentTrackedDialect}
490 {%
491 \ifundef\dateitalian
492 {% do nothing
493 }%
494 {%
495 \def\dateitalian{%
496 \DTMifcaseregional
497 }% do nothing
498 {\DTMsetstyle{italian}}%
499 {\DTMsetstyle{italian-numeric}}%
500 }%
501 }%
502 }%
503 {%
504 \csdef{date\CurrentTrackedDialect}{%
505 \DTMifcaseregional
506 }% do nothing
507 {\DTMsetstyle{italian}}%
508 {\DTMsetstyle{italian-numeric}}
509 }%
510 }%
```