

# 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.

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

I don't know if these settings are correct. In particular, I don't know if the `italian` time style is correct. Currently this just uses the `default` time style. Please be aware that this may change. Whoever takes over maintenance of this module may 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-italian.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. 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{italian-utf8}[2015/03/27 v1.0]
```

```

\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 }

\DTMitalianMonthname As above but start with a capital.
33 \newcommand*{\DTMitalianMonthname}[1]{%
34   \ifcase#1
35   \or
36   Gennaio%
37   \or
38   Febbraio%
39   \or
40   Marzo%
41   \or
42   Aprile%
43   \or
44   Maggio%
45   \or

```

```

46  Giugno%
47  \or
48  Luglio%
49  \or
50  Agosto%
51  \or
52  Settembre%
53  \or
54  Ottobre%
55  \or
56  Novembre%
57  \or
58  Dicembre%
59  \fi
60 }

```

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

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

```

61 \newcommand*{\DTMitalianweekdayname}[1]{%
62  \ifcase#1
63  domenica%
64  \or
65  lunedì%
66  \or
67  martedì%
68  \or
69  mercoledì%
70  \or
71  giovedì%
72  \or
73  venerdì%
74  \or
75  sabato%
76  \fi
77 }

```

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

```

78 \newcommand*{\DTMitalianWeekdayname}[1]{%
79  \ifcase#1
80  Domenica%
81  \or
82  Lunedì%
83  \or
84  Martedì%
85  \or
86  Mercoledì%
87  \or
88  Giovedì%

```

```

89 \or
90 Venerdi%
91 \or
92 Sabato%
93 \fi
94 }

```

## 1.2 ASCII

This file contains the settings that use  $\text{\LaTeX}$  commands for non-ASCII characters. This should be input if neither Xe $\text{\LaTeX}$  nor Lua $\text{\LaTeX}$  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

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

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

`\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 }

```

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

```

127 \newcommand*{\DTMitalianMonthname}[1]{%
128 \ifcase#1
129 \or
130 Gennaio%
131 \or
132 Febbraio%
133 \or
134 Marzo%
135 \or
136 Aprile%
137 \or
138 Maggio%
139 \or
140 Giugno%
141 \or
142 Luglio%
143 \or
144 Agosto%
145 \or
146 Settembre%
147 \or
148 Ottobre%
149 \or
150 Novembre%
151 \or
152 Dicembre%
153 \fi
154 }

```

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

```

155 \newcommand*{\DTMitalianweekdayname}[1]{%
156 \ifcase#1
157 domenica%
158 \or
159 lunedì\protect\'i%
160 \or
161 martedì\protect\'i%
162 \or
163 mercoledì\protect\'i%
164 \or
165 giovedì\protect\'i%
166 \or
167 venerdì\protect\'i%
168 \or

```

```

169  sabato%
170  \fi
171 }

```

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

```

172 \newcommand*{\DTMitalianWeekdayname}[1]{%
173  \ifcase#1
174  Domenica%
175  \or
176  Luned\protect\'i%
177  \or
178  Marted\protect\'i%
179  \or
180  Mercoled\protect\'i%
181  \or
182  Gioved\protect\'i%
183  \or
184  Venerd\protect\'i%
185  \or
186  Sabato%
187  \fi
188 }

```

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

Identify Module

```

189 \ProvidesDateTimeModule{italian}[2015/03/27 v1.0]

```

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`. 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.

```

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}}`

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.

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}`

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

218 `\DTMnewstyle`  
219 `{italian}% label`  
220 `{% date style`  
221 `\renewcommand*{\DTMdisplaydate[4]}{%`

```

222     \DTMifbool{italian}{showdayofmonth}
223     {\DTMitalianordinal{##3}\DTMitaliandaymonthsep}%
224     {}%
225     \DTMitalianmonthname{##2}%
226     \DTMifbool{italian}{showyear}%
227     {%
228         \DTMitalianmonthyearsep
229         \number##1 % space intended
230     }%
231     {}%
232 }%
233 \renewcommand*\DTMDisplaydate[4]{%
234     \DTMifbool{italian}{showdayofmonth}
235     {%
236         \DTMitalianordinal{##3}\DTMitaliandaymonthsep
237         \DTMitalianmonthname{##2}%
238     }%
239     {\DTMitalianMonthname{##2}}%
240     \DTMifbool{italian}{showyear}%
241     {%
242         \DTMitalianmonthyearsep
243         \number##1 % space intended
244     }%
245     {}%
246 }%
247 }%
248 {% time style (use default)
249     \DTMsettimestyle{default}%
250 }%
251 {% zone style
252     \DTMresetzones
253     \DTMitalianzonemaps
254     \renewcommand*\DTMdisplayzone}[2]{%
255         \DTMifbool{italian}{mapzone}%
256         {\DTMusedzonemapordefault{##1}{##2}}%
257         {%
258             \ifnum##1<0\else+\fi\DTMtwodigits{##1}%
259             \ifDTMshowzoneminutes\DTMitaliantimesep\DTMtwodigits{##2}\fi
260         }%
261     }%
262 }%
263 {% full style
264     \renewcommand*\DTMdisplay}[9]{%
265         \ifDTMshowdate
266             \DTMdisplaydate{##1}{##2}{##3}{##4}%
267             \DTMitaliandatetimesep
268             \fi
269             \DTMdisplaytime{##5}{##6}{##7}%
270         \ifDTMshowzone
271             \DTMitaliantimezonesep

```



```

272     \DTMdisplayzone{##8}{##9}%
273     \fi
274 }%
275 \renewcommand*{\DTMDisplay}[9]{%
276     \ifDTMshowdate
277         \DTMdisplaydate{##1}{##2}{##3}{##4}%
278         \DTMitaliandatetimesep
279     \fi
280     \DTMdisplaytime{##5}{##6}{##7}%
281     \ifDTMshowzone
282         \DTMitaliantimezonesep
283         \DTMdisplayzone{##8}{##9}%
284     \fi
285 }%
286 }%

Define numeric style.

287 \DTMnewstyle
288 {italian-numeric}% label
289 {% date style
290     \renewcommand*{\DTMdisplaydate}[4]{%
291         \DTMifbool{italian}{showdayofmonth}%
292         {%
293             \number##3 % space intended
294             \DTMitaliandatesep
295         }%
296     }%
297     \number##2 % space intended
298     \DTMifbool{italian}{showyear}%
299     {%
300         \DTMitaliandatesep
301         \number##1 % space intended
302     }%
303 }%
304 }%
305 \renewcommand*{\DTMDisplaydate}[4]{\DTMdisplaydate{##1}{##2}{##3}{##4}}%
306 }%
307 {% time style
308     \renewcommand*{\DTMdisplaytime}[3]{%
309         \number##1
310         \DTMitaliantimesep\DTMt看odigits{##2}%
311         \ifDTMshowseconds\DTMitaliantimesep\DTMt看odigits{##3}\fi
312     }%
313 }%
314 {% zone style
315     \DTMresetzones
316     \DTMitalianzonemaps
317     \renewcommand*{\DTMdisplayzone}[2]{%
318         \DTMifbool{italian}{mapzone}%
319         {\DTMusedzonemapordefault{##1}{##2}}%

```

```

320     {%
321       \ifnum##1<0\else+\fi\DTMt看odigits{##1}%
322       \ifDTMshowzoneminutes\DTMitaliantimesep\DTMt看odigits{##2}\fi
323     }%
324   }%
325 }%
326 {% full style
327   \renewcommand*{\DTMdisplay}[9]{%
328     \ifDTMshowdate
329       \DTMdisplaydate{##1}-{##2}-{##3}-{##4}%
330       \DTMitaliandatetimesep
331     \fi
332     \DTMdisplaytime{##5}-{##6}-{##7}%
333     \ifDTMshowzone
334       \DTMitaliantimezonesep
335       \DTMdisplayzone{##8}-{##9}%
336     \fi
337   }%
338   \renewcommand*{\DTMDisplay}{\DTMdisplay}%
339 }

```

`\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.

```

340 \newcommand*{\DTMitalianzonemaps}{%
341   \DTMdefzonemap{01}{00}{CET}%
342   \DTMdefzonemap{02}{00}{CEST}%
343 }

```

Switch style according to the `useregional` setting.

```

344 \DTMifcaseregional
345 {}% do nothing
346 {\DTMsetstyle{italian}}
347 {\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.)

```

348 \ifcsundef{date\CurrentTrackedDialect}
349 {%
350   \ifundef\dateitalian
351     {% do nothing
352   }%
353   {%
354     \def\dateitalian{%
355       \DTMifcaseregional
356       }% do nothing
357     {\DTMsetstyle{italian}}%
358     {\DTMsetstyle{italian-numeric}}%
359   }%
360 }%
361 }%

```

```

362 {%
363   \csdef{date\CurrentTrackedDialect}{%
364     \DTMifcaseregional
365     {% do nothing
366     {\DTMsetstyle{italian}}}%
367     {\DTMsetstyle{italian-numeric}}
368   }%
369 }%

```

# Change History

1.0  
General: Initial release . . . . . 1, 4, 6

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