

The **isodate** package*

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Abstract

This package provides commands to switch between different date formats (standard, ISO, numeric, L^AT_EX package). They are used by the \today command, by the \printdate and \printdateTeX commands that print any date, and by the \daterange command that prints a date range. At the moment, this package supports German (old and new orthography, Austrian), British, US, Australian as well as New Zealand English,¹ French, Italian, Danish, Swedish, and Norwegian.

The idea for this package was taken from the akletter class.

Contents

1 Commands	2
1.1 Switching the date output format	2
1.2 Printing today's date	3
1.3 Printing any date	3
1.4 Printing date ranges	4
1.5 Changing the ISO format	4
1.6 Changing the short original format	5
1.7 Changing the German format	5
1.8 Changing the English format	5
1.9 User defined month formatting	6
1.10 Switching the date input format	7
2 Calling the package	7
3 Add new languages to the package	9
A Licence	9

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¹In order to use Australian or New Zealand, you need a version of babel that supports the used language. It should be available, soon.

B Known errors	10
C Planned features and changes	10
D The implementation	10
D.1 Package file <code>isodate.sty</code>	10
D.2 Language definition file <code>danish.idf</code>	22
D.3 Language definition file <code>english.idf</code>	25
D.4 Language definition file <code>french.idf</code>	34
D.5 Language definition file <code>german.idf</code>	36
D.6 Language definition file <code>italian.idf</code>	39
D.7 Language definition file <code>norsk.idf</code>	41
D.8 Language definition file <code>swedish.idf</code>	44

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Requirements

The package `isodate` needs the package `substr.sty` which can be obtained from CTAN:`macros/latex/contrib/substr/`.

1 Commands

1.1 Switching the date output format

<code>\isodate</code>	This package provides five commands to switch the output format of all commands that print dates (described later):
<code>\numdate</code>	
<code>\shortdate</code>	
<code>\TeXdate</code>	
<code>\origdate</code>	
<code>\shortorigdate</code>	
<code>\Romandate</code>	<code>\isodate</code> date format described in ISO 8601 and DIN 5008 [1] (yyyy-mm-dd)
<code>\romandate</code>	
<code>\shortRomandate</code>	
<code>\shortromandate</code>	
	<code>\numdate</code> numeric date format with four digits of the year
	<code>\shortdate</code> short numeric date format with two digits of the year
	<code>\TeXdate</code> date format used for version description of packages (yyyy/mm/dd)
	<code>\origdate</code> original L ^A T _E X format
	<code>\shortorigdate</code> original L ^A T _E X format with two instead of four digits of

	the year
\Romandate	As \numdate but with uppercase Roman numerals for the month
\romandate	As \numdate but with lowercase Roman numerals for the month
\shortRomandate	As \shortdate but with uppercase Roman numerals for the month
\shortromandate	As \shortdate but with lowercase Roman numerals for the month

These commands *do not* print any dates and they don't take an argument. They just switch the format for later usage of the date-printing commands \today, \printdate, \printdateTeX, and \daterange.

The numeric and short numeric as well as the Roman numbered formats change their behaviour depending on the current language:

German, nGerman	dd.\,mm.\,yyyy	resp.	dd.\,mm.\,yy
US English	mm/dd/yyyy	resp.	mm/dd/yy
other languages	dd/mm/yyyy	resp.	dd/mm/yy

This package supports German (old and new rules, Austrian), US English, French, Danish, Italian, Swedish, and Norwegian. Switching the language by using \selectlanguage does *not* switch back to the original date format. So the current date format stays active when changing the language.

The change of the date format works locally. So it is possible to change it locally inside a group; e.g.,

```
\today, {\origdate\today}, \today
```

leads to "2005-04-15, 15th April 2005, 2005-04-15".

\printyearoff
\printyearon

By default, all formats print the day, month, and year. Sometimes, you may want to print the date without the year. This can be reached by using the command \printyearoff. You can switch back with \printyearon or by using \printyearoff inside a group (e.g., an environment). To switch globally, precede the command by \global. An example:

```
\today, {\printyearoff\today}, \today
```

leads to "15th April 2005, 15th April, 15th April 2005".

1.2 Printing today's date

\today As usual, the command \today prints the date of today. Its appearance is influenced by the current date format

1.3 Printing any date

\printdate The command \printdate{\#1} prints any date in the current format. The argument may be a date in German, British English, or ISO format, e.g.,

```
\printdate{24.12.2000}
\printdate{24/12/2000}
\printdate{2000-12-24}
```

\printdateTeX The command `\printdateTeX{#1}` prints any date in the actual format. The argument must be in the L^AT_EX format yyyy/mm/dd, e.g.,

```
\printdateTeX{2000/12/24}
```

This command is useful for printing version information stored in a macro. For example the version of this package is stored in the macro `\filedate` (“2005/04/15”). To print it with the actual date format you can use the command `\printdateTeX{\filedate}` which leads to e.g., “2005-04-15” or “15th April 2005”. Another possibility is to switch the input format to `tex` using `\dateinputformat`, described below.

1.4 Printing date ranges

\daterange The command `\daterange{#1}{#2}` prints a date range in the current format. The arguments may be a date in German, British English, or ISO format (see above). But there is a limitation: Both arguments must have the same input format.

Depending on the language and date format, this commands leaves out some of the data. The simplest way to understand it is to watch some examples:

```
{\isodate
\daterange{1999-05-03}{1999-05-31} → 1999-05-03 to 31
\daterange{1999-05-03}{1999-11-03} → 1999-05-03 to 11-03
\daterange{1999-05-03}{2000-04-07} → 1999-05-03 to 2000-04-07
}
{\origdate
\daterange{1999-05-03}{1999-05-31} → 3rd to 31st May 1999
\daterange{1999-05-03}{1999-11-03} → 3rd May to 3rd November 1999
\daterange{1999-05-03}{2000-04-07} → 3rd May 1999 to 7th April 2000
}
```

1.5 Changing the ISO format

\isodash The ISO norm says that the date format is “yyyy-mm-dd” or “yyyymmdd” [1]. By default I use the hyphen “-” as separator. You can change this using the `\isodash`² command, e.g.,

```
\printdate{24/12/2000},
\isodash{--}%
\printdate{24/12/2000},
\isodash{}%
\printdate{24/12/2000}
```

²The name “isodash” is a little bit confusing and was chosen due to my limited knowledge in English. It should be named “isoseparator” or “isosep”. But for compatibility reasons I will not change it.

leads to “2000-12-24, 2000-12-24, 20001224”. Or for example

```
\isodash{$\cdot$}
\printdate{24/12/2000}
```

leads to “2000-12-24”.

1.6 Changing the short original format

```
\shortyearsign
```

The short original format normally prints the year with two digits, e.g., “19th May 01”. Some people want to add an additional sign before the year, e.g., “19th May ’01”. This can be achieved by using the command `\shortyearsign`, e.g.,

```
\printdate{24/12/2000},
\shortyearsign{'}
\printdate{24/12/2000}
```

leads to “24 december 00, 24 december ’00” in English.

This only effects the `shortorig` format. The `short` numerical format stays unchanged.

1.7 Changing the German format

The spacings for the numerical formats in the German language (24. 12. 2000 resp. 24. 12. 00) were taken from the Duden [2] and are the defaults when using one of the German derivatives. Some people want to use different spacings. Thus from version 2.03 on it is possible to change them. You can change the spacing between the day and the month using the command `\daymonthsepgerman`. Using the command `\monthyearsepgerman` you can change the spacing between the month and the year for the long and the short format, e.g.,

```
\daymonthsepgerman{\quad}%
\monthyearsepgerman{\quad}{\quad}%
{\numdate\printdate{24.12.2000}}, {\shortdate\printdate{24.12.2000}}
```

leads to “24. 12. 2000, 24. 12. 00”.

The default values are “\,” for the separator between day and month resp. “\,” between month and year in the short format and “~” in the long format.

1.8 Changing the English format

By default, the English date format looks like “24th December 2000”. During the last years, a change has occurred in many documents towards “24 December 2000”. This new format is called “clean look”. Isodate’s behaviour can be changed towards it using `\cleanlookdateon` and `\cleanlookdateoff`. This can also be done globally using the `cleanlook` package option.

At the moment, the “clean look” functionality only affects British English. If this trend also counts for different languages, please tell me that I can add support for them.

1.9 User defined month formatting

Internally, the formats using Roman numerals for the month are just links to the `\numdate` and `\shortdate` formats with a changed format for printing the month. Therefore, the command `\Romandate` calls `\numdate` by following sequence:

```
\numdate[Roman]%
\isotwodigitdayfalse
```

This tells `\numdate` to format the month using the `\Roman` command and to typeset the day without a leading zero if it is less than ten.

You may do similar things, e.g.,

```
\numdate[Alph]
```

prints the months with the command `\Alph`, “A”, “B”, … The day is printed with two digits since every call of `\numdate` or `\shortdate` calls `\isotwodigitdaytrue` which switches printing the day with two digits on. This does not make any sense but may serve as example. If you want to enable days with one digit, append `\isotwodigitdaytrue`:

```
\numdate[Alph]%
\isotwodigitdaytrue
```

You may declare any command that typesets a counter that is given as its mandatory argument (e.g., `\alph`, `\Alph`, `\arabic`, …) in the optional argument of the `\numdate`, `\shortdate`, `\isodate`, and `\TeXdate` commands, without the leading backslash. You can, of course, define own commands that do it. For instance,

```
{\def\boldnum#1{\textbf{\twodigitarabic{#1}}}}%
\numdate[boldnum]%
\printdate{24.3.2000}
```

`\twodigitarabic` leads to “24/**03**/2000”. Here, the `\twodigitarabic` command has been used that prints a positive number with at least two digits.³

If you, for example want a numerical date format with the day and month printed with the “natural” number of digits rather than with two digits, you may do it as follows:

```
{\numdate[arabic]\isotwodigitdayfalse
\printdate{1.2.2000}}
```

which leads to “1/2/2000”.

Using one of the other date formats reset the numerical format to its standard settings with arabic numerals (with two digits), e.g.,

```
{\numdate[Alph]\printdate{6.12.2000}%
\isodate\printdate{6.12.2000}%
\numdate\printdate{6.12.2000}}
```

leads to “6/L/2000; 2000-12-06; 06/12/2000”.

³This command is also used for the numerical date formats.

1.10 Switching the date input format

\dateinputformat

As described above, the date can be given in different formats. For the German format dd.mm.yyyy and the ISO format yyyy-mm-dd, the input format is definite. But when using slashes to separate the day, month, and year, different formats exist. British people use dd/mm/yyyy, American people use mm/dd/yyyy, while TEX uses yyyy/mm/dd which in fact is an ISO format with slashes instead of dashes.

By default, the British format is used. If the user wants to give the American or TEX format as argument of the \printdate or \daterange commands, the macro \dateinputformat can be used to change the behaviour. This macro takes the name of the input format as single parameter, e.g., \dateinputformat{american}, for switching to American behaviour, e.i., mm/dd/yyyy. For example,

```
\numdate
\selectlanguage{UKenglish}%
\dateinputformat{american}%
\printdate{12/31/2004}
```

gives 31/12/2004. In this example, *input* format is American while the *output* format is English.

Valid arguments for the \dateinputformat command are english, UKenglish, british, american, USenglish, tex, latex, TeX, LaTeX. The meaning of most possibilities should be clear; english means British English.

Beware that the input format may only be changed for the date format using slashes. Thus, you don't have to and are not allowed to specify input formats other than these described above. For example, \dateinputformat{german} is not allowed (and not necessary).

2 Calling the package

The package is called using the \usepackage command:

\usepackage[option]{isodate}.

The possible package options can be seen in table 2.

Be aware that at least one language option must be set when calling isodate. The last language in the option list is the default language.

The package isodate works well together with babel.sty, german.sty, or ngerman.sty. It does not matter if isodate is loaded before or after the used language package.

It is also possible to use isodate without one of the language packages. Then it is not possible to switch between languages using the \selectlanguage command.⁴ Then the default language is the last one in the option list. If an error occurs,

⁴Yes, there is a way to change the date language, but it is a little bit tricky:

```
\makeatletter
\def\iso@languagename{german}%
\dategerman%
```

Table 2: Package options

option	function
<code>iso</code>	start with ISO date format
<code>num</code>	start with numeric date format with 4 digits of the year
<code>short</code>	start with numeric date format with 2 digits of the year
<code>TeX</code>	start with L ^A T _E X numeric date format (yyyy/mm/dd)
<code>orig</code>	start with normal L ^A T _E X date format (default ^a)
<code>shortorig</code>	start with short normal L ^A T _E X date format (2 digits)
<code>Roman</code>	start with numeric date format (month in uppercase Roman numerals)
<code>roman</code>	start with numeric date format (month in lowercase Roman numerals)
<code>shortRoman</code>	start with short Roman format
<code>shortroman</code>	start with short roman format
<code>american</code>	support American English date format
<code>austrian</code>	support Austrian date format
<code>british</code>	support British English date format
<code>danish</code>	support Danish date format
<code>english</code>	support British English date format
<code>french</code>	support French date format
<code>german</code>	support German date format
<code>naustrian</code>	support new Austrian date format
<code>ngerman</code>	support new German date format
<code>italian</code>	support Italian date format
<code>norsk</code>	support Norwegian date format
<code>norwegian</code>	support Norwegian date format
<code>swedish</code>	support Swedish date format
<code>UKenglish</code>	support British English date format
<code>USenglish</code>	support American English date format
<code>inputenglish</code>	English date input format (default)
<code>inputbritish</code>	English date input format (default)
<code>inputUKenglish</code>	English date input format (default)
<code>inputamerican</code>	American date input format
<code>inputUSenglish</code>	American date input format
<code>inputtex</code>	T _E X date input format
<code>inputTeX</code>	T _E X date input format
<code>inputlateX</code>	T _E X date input format
<code>inputLaTeX</code>	T _E X date input format
<code>cleanlook</code>	use “clean look” for English dates
<code>nocleanlook</code>	don’t use “clean look” for English dates

^aThe original format is used as default in order to avoid a different document output by just including the package.

curs when using `isodate` without one of the packages `babel.sty`, `german.sty`, and `n german.sty` please run `tstlang.tex` through latex and send the file `tstlang.log` to the address `h.harders@tu-bs.de`.

If using `isodate` together with `babel` it can be useful to put the language options as global options into the optional parameters of the `\documentclass` command. Then automatically the available languages are the same for the text and the dates, and the default language is also the same. For example:

```
\documentclass[english,german]{article}
\usepackage{babel}
\usepackage[num]{isodate}
```

The input format options specify the input format that is used at the begin of the document. You don't have to define multiple options if you want to change the input format in the document using `\dateinputformat`. For example,

```
\documentclass[american,german,british]{article}
\usepackage{babel}
\usepackage[iso,inputamerican]{isodate}
\begin{document}
D \printdate{28.2.2000}\par
ISO \printdate{2000-2-28}\par
US \printdate{2/28/2000}\par
\dateinputformat{british}UK \printdate{28/2/2000}\par
\dateinputformat{tex}\TeX\ \printdate{2000/2/28}
\end{document}
```

works as expected.

Beware that only the mentioned input formats are defined. For example, `inputgerman` does not exist because it is not necessary.

3 Add new languages to the package

The easiest way to add new languages to the package is to copy one of the simple language files `danish.idf` or `french.idf` to the new language name, e.g., `plattdeutsch.idf`, and change it as necessary.

This new file can be used without changing `isodate.sty` if you use its name explicitly in the optional parameter of the `\usepackage` command. If you have added support for a new language please mail me.

A Licence

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```
\makeatother
```

B Known errors

- The `\printdate` and `\printdateTeX` commands are not very good in checking the argument for correct syntax.
- The language definition files `french.idf` and `german.idf` are not yet commented.
- `Isodate` and `draftcopy` do not work together.

C Planned features and changes

- Of course eliminate the errors.
- Add other languages. Please help me with this topic. I don't know the date formats in other languages.
- Add a command that prints only the month and the year of a date.
- Format short given years to four digits and calculate reasonable first and second digits.

References

- [1] International Standard: ISO 8601. <http://www.iso.ch/market/8601.pdf>, 1988-06-15.
- [2] DUDEN Band 1. Die deutsche Rechtschreibung. 21. Auflage, Dudenverlag, Mannheim, Germany, 1996.

D The implementation

D.1 Package file `isodate.sty`

Heading of the files:

```
1 <isodate>\NeedsTeXFormat{LaTeX2e}
2 <isodate>\ProvidesPackage{isodate}
3 <danish>\ProvidesFile{danish.idf}
4 <english>\ProvidesFile{english.idf}
5 <french>\ProvidesFile{french.idf}
6 <german>\ProvidesFile{german.idf}
7 <italian>\ProvidesFile{italian.idf}
8 <norsk>\ProvidesFile{norsk.idf}
9 <swedish>\ProvidesFile{swedish.idf}
10 <isodate> [2005/04/15 v2.28 Print dates with different formats (HH)]
11 <language> [2005/04/15 v2.28 Language definitions for isodate package (HH)]
```

The package:

```
12 {*isodate}
13 \RequirePackage{ifthen}
14 \IfFileExists{substr.sty}{\RequirePackage{substr}}%
15 }{\PackageError{isodate.sty}{Package file substr.sty not found}%
16   {This version of isodate.sty needs the package substr.sty.^^J%
17     You can download it from
18     CTAN:/macros/latex/contrib/substr/^^J%
19     e.g., one CTAN node is ftp.dante.de.
20     Install substr.sty into your TeX tree.}}
```

Declare the options for the default date format.

```
21 \DeclareOption{iso}{\AtEndOfPackage{\isodate}}
22 \DeclareOption{num}{\AtEndOfPackage{\numdate}}
23 \DeclareOption{short}{\AtEndOfPackage{\shortdate}}
24 \DeclareOption{TeX}{\AtEndOfPackage{\TeXdate}}
25 \DeclareOption{orig}{\AtEndOfPackage{\origdate}}
26 \DeclareOption{shortorig}{\AtEndOfPackage{\shortorigdate}}
27 \DeclareOption{Roman}{\AtEndOfPackage{\Romandate}}
28 \DeclareOption{roman}{\AtEndOfPackage{\romandate}}
29 \DeclareOption{shortRoman}{\AtEndOfPackage{\shortRomandate}}
30 \DeclareOption{shortroman}{\AtEndOfPackage{\shortromandate}}
31 \DeclareOption{cleanlook}{\AtEndOfPackage{\cleanlookdateon}}
32 \DeclareOption{nocleanlook}{\AtEndOfPackage{\cleanlookdateoff}}
```

Declare the options for the default date input format.

```
33 \DeclareOption{inputenglish}{\AtEndOfPackage{\dateinputformat{english}}}
34 \DeclareOption{inputbritish}{\AtEndOfPackage{\dateinputformat{english}}}
35 \DeclareOption{inputUKenglish}{\AtEndOfPackage{\dateinputformat{english}}}
36 \DeclareOption{inputamerican}{\AtEndOfPackage{\dateinputformat{american}}}
37 \DeclareOption{inputUSenglish}{\AtEndOfPackage{\dateinputformat{american}}}
38 \DeclareOption{inputtex}{\AtEndOfPackage{\dateinputformat{tex}}}
39 \DeclareOption{inputTeX}{\AtEndOfPackage{\dateinputformat{tex}}}
40 \DeclareOption{inputlatex}{\AtEndOfPackage{\dateinputformat{tex}}}
41 \DeclareOption{inputLaTeX}{\AtEndOfPackage{\dateinputformat{tex}}}
```

Declare the options for language support.

```
42 \DeclareOption{american}{\input{english.idf}}
43 \DeclareOption{australian}{\input{english.idf}}
44 \DeclareOption{austrian}{\input{german.idf}}
45 \DeclareOption{danish}{\input{danish.idf}}
46 \DeclareOption{english}{\input{english.idf}}
47 \DeclareOption{british}{\input{english.idf}}
48 \DeclareOption{french}{\input{french.idf}}
49 \DeclareOption{frenchb}{\input{french.idf}}
50 \DeclareOption{german}{\input{german.idf}}
51 \DeclareOption{italian}{\input{italian.idf}}
52 \DeclareOption{naustralian}{\input{german.idf}}
53 \DeclareOption{newzealand}{\input{english.idf}}
54 \DeclareOption{ngerman}{\input{german.idf}}
55 \DeclareOption{norsk}{\input{norsk.idf}}
```

```

56 \DeclareOption{norsk}{\input{norsk.idf}}
57 \DeclareOption{swedish}{\input{swedish.idf}}
58 \DeclareOption{UKenglish}{\input{english.idf}}
59 \DeclareOption{USenglish}{\input{english.idf}}
Make it possible to load language definition files that are not known by this package.

60 \DeclareOption*{%
61   \InputIfFileExists{\CurrentOption.idf}{}{%
62     \PackageError{isodate}{%
63       Isodate definition file \CurrentOption.idf not found}{%
64       Maybe you misspelled the language option?}}%
65 }

Set default option to orig.

66 \ExecuteOptions{orig,nocleanlook}
Process the options.

67 \ProcessOptions*
Handle the case that no language was given. Throw an error message. Each language definition file *.idf must contain a line

\let\iso@languageloaded\active
that defines the command \iso@languageloaded.

68 \ifx\iso@languageloaded\@undefined
69   \PackageError{isodate}{%
70     You haven't specified a language option}{%
71     You need to specify a language, either as a global
72     option\MessageBreak
73     or as an optional argument to the \string\usepackage\space
74     command.\MessageBreak
75     If you have used the old isodate package (version <=1.06) you can
76     change the\MessageBreak
77     usepackage command to \protect\usepackage{isodate}.\MessageBreak
78     You shouldn't try to proceed from here, type x to quit.}
79 \fi

\iso@printday Prints a day.

80 \newcommand*\iso@printday[1]{%
81   \ifisotwodigitday
82     \ifthenelse{\number#1<10}{0}{}
83   \fi
84   \number#1%
85 }%

\twodigitarabic Typesets the given counter with at least two digits. This command is very simple and does only work for positive numbers below 100.

86 \newcommand*\twodigitarabic[1]{%
87   \ifthenelse{\number\arabic{#1}<10}{0}{}

```

```

88   \arabic{#1}%
89 }

\iso@printmonth Prints a month using \theiso@tmpmonth as output fourmat.
90 \newcommand*\iso@printmonth[1]{%
91   \setcounter{iso@tmpmonth}{#1}%
92   \theiso@tmpmonth%
93 }

Define the help counter that prints the month and initialize it to print arabic
numbers.
94 \newcounter{iso@tmpmonth}
95 \%def\theiso@tmpmonth{\arabic{iso@tmpmonth}}


\iso@yeartwo Prints the argument of the command with two digits.
Example: \iso@yeartwo{1873} —→ 73.
96 \newcounter{iso@yeartwo}%
97 \newcommand*\iso@yeartwo[1]{%
98   \setcounter{iso@yeartwo}{\number#1}%
99   \whiledo{\theiso@yeartwo>99}{%
100     \addtocounter{iso@yeartwo}{-100}{}%
101   \ifthenelse{\number\theiso@yeartwo<10}{0}{}{\theiso@yeartwo}%
102 }

\iso@yearfour Prints the argument of the command with four digits.
103 \newcommand*\iso@yearfour[1]{%
104   \ifthenelse{\number#1<1000}{0}{%
105     \ifthenelse{\number#1<100}{0}{%
106       \ifthenelse{\number#1<10}{0}{%
107         \number#1%
108 }%


\ifisotwodigitday Print day with two digits or natural number of digits?
109 \%newif\ifisotwodigitday

\iso@dateformat In this command, the current active date format ist stored. Possible values are:
numeric, short, iso, orig, shortorig, TeX.
110 \%def\iso@dateformat{numeric}

\iso@inputformat This macro stores which input format is used for dates given with slashes.
Valid formats are english (dd/mm/yyyy), american (mm/dd/yyyy), and tex
(yyyy/mm/dd). By default, English is used.
111 \%DeclareRobustCommand*\dateinputformat[1]{%
112   \ifthenelse{%
113     \equal{#1}{english}\or%
114     \equal{#1}{british}\or%
115     \equal{#1}{UKenglish}}{%
116   \%def\iso@inputformat{english}%

```

```

117  }{%
118  \ifthenelse{%
119    \equal{#1}{american}\or
120    \equal{#1}{USenglish}}{%
121    \def\iso@inputformat{american}%
122  }{%
123    \ifthenelse{%
124      \equal{#1}{tex}\or
125      \equal{#1}{TeX}\or
126      \equal{#1}{latex}\or
127      \equal{#1}{LaTeX}}{%
128        \def\iso@inputformat{tex}%
129      }{%
130        \PackageError{isodate}{Invalid date input format}{%
131          Maybe you misspelled the language option (english, american,
132          tex)?}%
133      }%
134    }%
135  }%
136 }

```

\iso@inputformat This macro stores which input format is used for dates given with slashes. Valid formats are `english` (dd/mm/yyyy), `american` (mm/dd/yyyy), and `tex` (yyyy/mm/dd). By default, English is used.

```
137 \dateinputformat{english}
```

\numdate Switches to long numerical date format.

```

138 \DeclareRobustCommand*\numdate[1][twodigitarabic]{%
139   \def\iso@dateformat{numeric}%
140   \isotwodigitdaytrue
141   \def\theiso@tmpmonth{\csname #1\endcsname{iso@tmpmonth}}%
142 }

```

\shortdate Switches to short numerical date format.

```

143 \DeclareRobustCommand*\shortdate[1][twodigitarabic]{%
144   \def\iso@dateformat{short}%
145   \isotwodigitdaytrue
146   \def\theiso@tmpmonth{\csname #1\endcsname{iso@tmpmonth}}%
147 }

```

\isodate Switches to ISO date format.

```

148 \DeclareRobustCommand*\isodate[1][twodigitarabic]{%
149   \def\iso@dateformat{iso}%
150   \isotwodigitdaytrue
151   \def\theiso@tmpmonth{\csname #1\endcsname{iso@tmpmonth}}%
152 }

```

```

\origdate Switches to the original date format.
153 \DeclareRobustCommand*\origdate{%
154   \def\iso@dateformat{orig}%
155   \isotwodigitdayfalse
156   \def\theiso@tmpmonth{\twodigitarabic{iso@tmpmonth}}%
157 }

\shortorigdate Switches to the short original date format.
158 \DeclareRobustCommand*\shortorigdate{%
159   \def\iso@dateformat{shortorig}%
160   \isotwodigitdayfalse
161   \def\theiso@tmpmonth{\twodigitarabic{iso@tmpmonth}}%
162 }

q

\texdate Switches to LATEX date format.
163 \DeclareRobustCommand*\TeXdate[1][twodigitarabic]{%
164   \def\iso@dateformat{TeX}%
165   \isotwodigitdaytrue
166   \def\theiso@tmpmonth{\csname #1\endcsname{iso@tmpmonth}}%
167 }

\Romandate Switches to long numerical date format with month printed in uppercase Roman
numerals.
168 \DeclareRobustCommand*\Romandate{%
169   \numdate[Roman]%
170   \isotwodigitdayfalse
171 }

\romandate Switches to long numerical date format with month printed in lowercase Roman
numerals.
172 \DeclareRobustCommand*\romandate{%
173   \numdate[roman]%
174   \isotwodigitdayfalse
175 }

\shortRomandate Switches to short numerical date format with month printed in uppercase Roman
numerals.
176 \DeclareRobustCommand*\shortRomandate{%
177   \shortdate[Roman]%
178   \isotwodigitdayfalse
179 }

\shortromandate Switches to short numerical date format with month printed in lowercase Roman
numerals.
180 \DeclareRobustCommand*\shortromandate{%
181   \shortdate[roman]%
182   \isotwodigitdayfalse
183 }

```

\isodash Changes the dash in the ISO date format. The default is “-”.

```
184 \def\iso@isodash{-}%
185 \DeclareRobustCommand*\isodash[1]{\def\iso@isodash{\#1}}%
```

Define the sign that is printed before a two digit year in the short original format.
Default is nothing.

\shortyearsign

```
186 \def\iso@twodigitsign{}%
187 \DeclareRobustCommand*\shortyearsign[1]{\def\iso@twodigitsign{\#1}}%
```

\isorangesign Defines the sign or word that is printed between the two dates in a date range.
e.g., in English the default is “ to ”.

```
188 \def\iso@rangesign{\csname iso@rangesign@\iso@languagename\endcsname}%
189 \DeclareRobustCommand*\isorangesign[1]{\def\iso@rangesign{\#1}}%
```

\printyearoff Switches printing of the year on or off. Default is to print the year.

\printyearon

```
190 \newif\ifiso@printyear%
191 \ DeclareRobustCommand*\printyearon{\iso@printyeartrue}%
192 \ DeclareRobustCommand*\printyearoff{\iso@printyearfalse}%
193 \printyearon
```

\cleanlookdateoff Switch on or off “clean look” for English dates. Default is not to use “clean look”.

\cleanlookdateon

```
194 \newif\ifiso@cleanlook%
195 \ DeclareRobustCommand*\cleanlookdateon{\iso@cleanlooktrue}%
196 \ DeclareRobustCommand*\cleanlookdateoff{\iso@cleanlookfalse}%
197 \cleanlookdateoff
```

\iso@printdate Defines the command `\iso@printdate` which takes three arguments (year, month, day) and prints the date by using the `\today` command.

```
198 \newcommand*\iso@printdate[3]{%
199   \begingroup%
   Generate a warning if the active language is not known by isodate.
200   @ifundefined{iso@printdate@\iso@languagename}{%
201     \PackageWarning{isodate}{Language \iso@languagename\space unknown
202       to isodate.\MessageBreak
203       Using default format}%
204   }{}%
```

The counters `\year`, `\month`, and `\day` are preserved as counters instead of changed to macros (as it has been done until version 2.25) to avoid problems with languages that are not defined in `isodate.sty`.

```
205   \year=\#1 %
206   \month=\#2 %
207   \day=\#3 %
208   \today%
209   \endgroup%
210 }
```

```

\printdate Prints a date that is given as one argument in one of these formats: yyyy-mm-dd,
dd/mm/yyyy, dd.mm.yyyy.

211 \DeclareRobustCommand*\printdate[1]{%
Define \iso@date command to expand the argument #1.

212 \edef\iso@date{#1}%
Count appearances of “/”, “-”, and “.” in the argument.

213 \SubStringsToCounter{\iso@slash}{/}{\iso@date}%
214 \SubStringsToCounter{\iso@minus}{-}{\iso@date}%
215 \SubStringsToCounter{\iso@dot}{.}{\iso@date}%

If number of “.” in the argument is equal to 2 then the German format dd.mm.yyyy
is used.

216 \ifthenelse{\equal{\theiso@dot}{2}}{%
217 \expandafter\iso@input@german\iso@date\@empty}{}%
If number of “-” in the argument is equal to 2 then the ISO format yyyy-mm-dd
is used.

218 \ifthenelse{\equal{\theiso@minus}{2}}{%
219 \expandafter\iso@input@iso\iso@date\@empty}{}%
If number of “/” in the argument is equal to 2 then the British English format
dd/mm/yyyy is used.

220 \ifthenelse{\equal{\theiso@slash}{2}}{%
221 \expandafter\iso@input@english\iso@date\@empty}{}%
Else no of the formats above is used an thus an error message is thrown.

222 ???? \iso@isodash ?? \iso@isodash ??%
223 \PackageError{isodate}{unrecognized date format}{Use one of
224 the following formats as macro argument: ^J%
225 \space\space dd.mm.yyyy^J%
226 \space\space dd/mm/yyyy^J%
227 \space\space yyyy-mm-dd^J%
228 Don't use any spaces or commands like \protect\, or
229 \protect` inside the argument.}%
230 }{}%
231 }

\iso@input@iso Converts a string with the format yyyy-mm-dd to three arguments {#1}{#2}{#3}
and calls \iso@printdate.

232 \def\iso@input@iso#1-#2-#3\@empty{\iso@printdate{#1}{#2}{#3} }

\iso@input@german Converts a string with the format dd.mm.yyyy to three arguments {#3}{#2}{#1}
and calls \iso@printdate.

233 \def\iso@input@german#1.#2.#3\@empty{\iso@printdate{#3}{#2}{#1} }

\iso@input@english Converts a string with the format dd/mm/yyyy to three arguments {#3}{#2}{#1}
and calls \iso@printdate.

234 \def\iso@input@english#1/#2/#3\@empty{%
235 \ifthenelse{\equal{\iso@inputformat}{tex}}{%

```

```

236      \iso@printdate{#1}{#2}{#3}%
237  }{%
238      \ifthenelse{\equal{\iso@inputformat}{american}}{%
239          \iso@printdate{#3}{#1}{#2}%
240      }{%
241          \iso@printdate{#3}{#2}{#1}%
242      }%
243  }%
244 }

\printdateTeX Prints a date that is given as one argument in the format yyyy/mm/dd.
245 \DeclareRobustCommand*\printdateTeX[1]{%
Define \iso@date command to expand the argument #1.
246 \edef\iso@date{#1}%
Count appearances of “/” in the argument.
247 \SubStringsToCounter{iso@slash}{/}{\iso@date}%
If number of “/” in the argument is equal to 2 then the LATEX format yyyy/mm/dd
is used.
248 \ifthenelse{\equal{\theiso@slash}{2}}{%
249     \expandafter\iso@input@TeX\iso@date\@empty}%
Else no of the formats above is used an thus an error message is thrown.
250     ????\iso@isodash ??\iso@isodash ??%
251     \PackageError{isodate}{unrecognized date format}{Use one of
252         the following formats as macro argument:^^J%
253         \space\space dd.mm.yyyy^^J%
254         \space\space dd/mm/yyyy^^J%
255         \space\space yyyy-mm-dd^^J%
256         Don't use any spaces or commands like \protect\, or
257         \protect~ inside the argument.}%
258     }%
259 }

\iso@input@TeX Converts a string with the format yyyy/mm/dd to three arguments {#1}{#2}{#3}
and calls \iso@printdate.
260 \def\iso@input@TeX#1/#2/#3\@empty{\iso@printdate{#1}{#2}{#3}%

\daterange Prints a date range.
261 \DeclareRobustCommand*\daterange[2]{%
Define \iso@date and \iso@@date commands to expand the argument #1 and #2.
Define \iso@@@date which contains both arguments devided by a komma.
262 \edef\iso@date{#1}%
263 \edef\iso@@date{#2}%
264 \edef\iso@@@date{\iso@date,\iso@@date}%
Count appearances of “/”, “-”, and “.” in the arguments.
265 \SubStringsToCounter{iso@slash}{/}{\iso@date}%
\SubStringsToCounter{iso@minus}{-}{\iso@date}%

```

```

266  \SubStringsToCounter{iso@dot}{.}{\iso@date}%
267  \SubStringsToCounter{iso@@slash}{/}{\iso@@date}%
268  \SubStringsToCounter{iso@@minus}{-}{\iso@@date}%
269  \SubStringsToCounter{iso@@dot}{.}{\iso@@date}%
If number of “.” in both arguments is equal to 2 then the German format
dd.mm.yyyy is used.
270  \ifthenelse{\equal{\theiso@dot}{2}\and\equal{\theiso@@dot}{2}}{%
271      \expandafter\iso@range@input@german\iso@@@date\@empty}{%
If number of “-” in both arguments is equal to 2 then the ISO format yyyy-mm-dd
is used.
272  \ifthenelse{\equal{\theiso@minus}{2}\and\equal{\theiso@@minus}{2}}{%
273      \expandafter\iso@range@input@iso\iso@@@date\@empty}{%
If number of “/” in both arguments is equal to 2 then the British English format
dd/mm/yyyy is used.
274  \ifthenelse{\equal{\theiso@slash}{2}\and%
275      \equal{\theiso@@slash}{2}}{%
276      \expandafter\iso@range@input@english\iso@@@date\@empty}{%
Else no of the formats above is used an thus an error message is thrown.
277      ???? \iso@isodash ?? \iso@isodash ??%
278      \PackageError{isodate}{unrecognized date format}{Use one of
279          the following formats as macro argument: ^J%
280          \space\space dd.mm.yyyy^J%
281          \space\space dd/mm/yyyy^J%
282          \space\space yyyy-mm-dd^J%
283          Don't use any spaces or commands like \protect\, or
284          \protect` inside the argument.^J
285          Use the same format for both arguments.}%
286      }{}%
287 }

\iso@range@input@iso Converts a string with the format yyyy-mm-dd,yyyy-mm-dd to six arguments
{#1}{#2}{#3}{#4}{#5}{#6} and calls \iso@daterange@language.
288 \def\iso@range@input@iso#1-#2-#3,#4-#5-#6\@empty{%
289   \begingroup
Generate a warning if the active language is not known by isodate.
290   @ifundefined{iso@daterange@\iso@languagename}{%
291     \PackageWarning{isodate}{Language \iso@languagename\space unknown
292       to isodate.\MessageBreak
293       Using default date range\MessageBreak
294       with range sign --}%
295     \expandafter\def\csname iso@printdate@\iso@languagename\endcsname{}%
Print date range in fall-back format.
296     \iso@printdate{#1}{#2}{#3}--\iso@printdate{#4}{#5}{#6}%
297   }{%

```

```

Print date range in the chosen isodate format.

298      \ifthenelse{\equal{\number#1}{\number#4}}{}{\printyearon}%
299      \csname iso@daterange@\iso@languagename\endcsname{%
300          #1}{#2}{#3}{#4}{#5}{#6}%
301      }%
302  \endgroup
303 }

\iso@range@input@german Converts a string with the format dd.mm.yyyy,dd.mm.yyyy to six arguments
{#3}{#2}{#1}{#6}{#5}{#4} and calls \iso@daterange@language.

304 \def\iso@range@input@german#1.#2.#3,#4.#5.#6\@empty{%
305   \begingroup
Generate a warning if the active language is not known by isodate.

306   \@ifundefined{iso@daterange@\iso@languagename}{%
307     \PackageWarning{isodate}{Language \iso@languagename\space unknown
308       to isodate.\MessageBreak
309       Using default date range\MessageBreak
310       with range sign --}%
311     \expandafter\def\csname iso@printdate@\iso@languagename\endcsname{}%
312   }
Print date range in fall-back format.

312   \iso@printdate{#3}{#2}{#1}--\iso@printdate{#6}{#5}{#4}%
313 }

Print date range in the chosen isodate format.

314   \ifthenelse{\equal{\number#3}{\number#6}}{}{\printyearon}%
315   \csname iso@daterange@\iso@languagename\endcsname{%
316       #3}{#2}{#1}{#6}{#5}{#4}%
317   }%
318 \endgroup
319 }

\iso@range@input@english Converts a string with the format dd/mm/yyyy,dd/mm/yyyy to six arguments
{#3}{#2}{#1}{#6}{#5}{#4} and calls \iso@daterange@language.

320 \def\iso@range@input@english#1/#2/#3,#4/#5/#6\@empty{%
321   \begingroup
Generate a warning if the active language is not known by isodate.

322   \@ifundefined{iso@daterange@\iso@languagename}{%
323     \PackageWarning{isodate}{Language \iso@languagename\space unknown
324       to isodate.\MessageBreak
325       Using default date range\MessageBreak
326       with range sign --}%
327     \expandafter\def\csname iso@printdate@\iso@languagename\endcsname{}%
328   }
Print date range in fall-back format.

328   \ifthenelse{\equal{\iso@inputformat}{tex}}{%
329     \iso@printdate{#1}{#2}{#3}--\iso@printdate{#4}{#5}{#6}%
330   }{%
331     \ifthenelse{\equal{\iso@inputformat}{american}}{%

```

```

332           \iso@printdate{#3}{#1}{#2}--\iso@printdate{#6}{#4}{#5}%
333       }{%
334           \iso@printdate{#3}{#2}{#1}--\iso@printdate{#6}{#5}{#4}%
335       }%
336   }{%
337 }{%

```

Print date range in the chosen `isodate` format.

```

338     \ifthenelse{\equal{\number#3}{\number#6}}{}{\printyearon}%
339     \ifthenelse{\equal{\iso@inputformat}{tex}}{}{%
340         \csname iso@daterange@\iso@languagename\endcsname{%
341             #1}{#2}{#3}{#4}{#5}{#6}%
342     }{%
343         \ifthenelse{\equal{\iso@inputformat}{american}}{%
344             \csname iso@daterange@\iso@languagename\endcsname{%
345                 #3}{#1}{#2}{#6}{#4}{#5}%
346         }{%
347             \csname iso@daterange@\iso@languagename\endcsname{%
348                 #3}{#2}{#1}{#6}{#5}{#4}%
349         }%
350     }%
351 }{%
352 \endgroup
353 }

```

Define the counters for counting the appearances of “.”, “-”, and “/” in the arguments.

```

354 \newcounter{iso@slash}
355 \newcounter{iso@minus}
356 \newcounter{iso@dot}
357 \newcounter{iso@@slash}
358 \newcounter{iso@@minus}
359 \newcounter{iso@@dot}

```

The command `\iso@languagename` is defined to be able to use this package without loading one of the language packages `babel.sty`, `german.sty`, or `ngerman.sty`.

If neither `babel.sty` nor `german.sty` nor `ngerman.sty` is loaded my computer returns “nohyphenation” when using `\languagename`. So this is the indication that none of the above packages is loaded.

```

360 \AtBeginDocument{%
361     \@tempswafalse
362     \@ifpackageloaded{babel}{%
363         \@tempswatrue
364         \typeout{isodate: babel.sty has been loaded}%
365     }{%
366     \@ifpackageloaded{german}{%
367         \@tempswatrue
368         \typeout{isodate: german.sty has been loaded}%
369     }{%
370     \@ifpackageloaded{ngerman}{%

```

```

371     \@tempswatrue
372     \typeout{isodate: ngerman.sty has been loaded}%
373 }{}%

```

The language is not equal “nohyphenation”. So one of the language packages is loaded. Replace the internal language name `\iso@languagename` by the global language name `\languagename`.

```

374 \if@tempswa
375   \gdef\iso@languagename{\languagename}%

```

Reload language to surely switch to new date format. The `languagename` gets first expanded because of errors that would occur otherwise.

```

376   \edef\iso@tmplang{\languagename}%
377   \expandafter\selectlanguage\expandafter{\iso@tmplang}%
378 \else

```

At the end of the preamble still none of the language packages are loaded. So no language switching is possible. Set the date language manually to the last language that was loaded for `isodate`.

```

379 \typeout{isodate: babel.sty, (n)german.sty have not been loaded}%
380 \csname date\iso@languagename\endcsname%
381 \fi
382 }
383 
```

D.2 Language definition file `danish.idf`

`\iso@languageloaded` Define the command `\iso@languageloaded` in order to enable `isodate.sty` to determine if at least one language is loaded.

```

384 <*danish>
385 \let\iso@languageloaded\active
386 \typeout{Define commands for Danish date format}

```

`\month@danish` Prints the name of today’s month in the long form for the original date format.

```

387 \def\month@danish{\ifcase\month\or
388   januar\or februar\or marts\or april\or maj\or juni\or
389   juli\or august\or september\or oktober\or november\or december\fi}

```

`\iso@printmonthday@danish` Prints the month and the day given as two arguments (`{mm}{dd}`) in the current date format.

```

390 \def\iso@printmonthday@danish#1#2{%
  Numeric and short date format: dd/mm/
  \ifthenelse{\equal{\iso@dateformat}{numeric}}{\or%
    \equal{\iso@dateformat}{short}}{%
      \iso@printday{#2}/\iso@printmonth{#1}\ifiso@printyear/\fi}%
}

```

ISO date format: -mm-dd

```

394 \ifthenelse{\equal{\iso@dateformat}{iso}}{%
  \ifiso@printyear\iso@isodash\fi\iso@printmonth{#1}%
  \iso@isodash\iso@printday{#2}}%

```

```

 $\text{\LaTeX}$  date format: /mm/dd
397      \ifthenelse{\equal{\iso@dateformat}{\TeX}}{%
398          \ifiso@printyear\fi\iso@printmonth{\#1}/\iso@printday{\#2}}{%
Original date format: d. mmm
399      \ifthenelse{\equal{\iso@dateformat}{orig}\or
400          \equal{\iso@dateformat}{shortorig}}{%
401          \iso@printday{\#2}.~\begingroup
402          \edef\lmonth{\#1}\def\month{\lmonth}%
403          \month@danish%
404          \endgroup
405      }{}{}}%
406  }

\iso@printdate@danish Prints the date given as three arguments ({yyyy}{mm}{dd}) in the actual date
format
407  \def\iso@printdate@danish#1#2#3{%
ISO or  $\text{\LaTeX}$  date format: yyyy\iso@printmonthday@danish
408  \ifthenelse{\equal{\iso@dateformat}{iso}\or%
409      \equal{\iso@dateformat}{\TeX}}{%
410      \ifiso@printyear
411          \number#1%
412          \fi}{}%
413  \iso@printmonthday@danish{\number#2}{\number#3}%
414  \ifiso@printyear

numeric date format: \iso@printmonthday@danish yyyy
415  \ifthenelse{\equal{\iso@dateformat}{numeric}}{\iso@yearfour{\number#1}}{%
original date format: \iso@printmonthday@danish~yyyy
416  \ifthenelse{\equal{\iso@dateformat}{orig}}{~\iso@yearfour{\number#1}}{%
short original date format: \iso@printmonthday@danish~yy
417  \ifthenelse{\equal{\iso@dateformat}{shortorig}}{%
418      ~\iso@twodigitsign\iso@yeartwo{\number#1}}{%
short date format: \iso@printmonthday@danish yy
419  \ifthenelse{\equal{\iso@dateformat}{short}}{%
420      \iso@yeartwo{\number#1}}{%
421      }{}{}}%
422  \fi
423  }

\iso@datedanish This command redefines the \today command to print in the actual date format.
424  \def\iso@datedanish{%
425      \def\today{\iso@printdate@danish{\year}{\month}{\day}}%
}

\iso@daterange@... Define date-range commands for dialects.
426  \expandafter\def\csname iso@daterange@\CurrentOption\endcsname{%
427      \iso@daterange@danish}%

```

`\iso@daterange@danhish` This command takes six arguments (`{yyyy1}{mm1}{dd1}{yyyy2}{mm2}{dd2}`) and prints the corresponding date range in the actual date format.

428 `\def\iso@daterange@danhish#1#2#3#4#5#6{%`

ISO or L^AT_EX date format.

429 `\ifthenelse{\equal{\iso@dateformat}{iso}\or%`
430 `\equal{\iso@dateformat}{TeX}}{%`

Print the start date.

431 `\csname iso@printdate@\iso@languagename\endcsname{%`
432 `#1}{#2}{#3}\iso@rangesign%`

If year and month are equal, only print the day of the end date. If only the year is equal, only print month and day of the end date. Otherwise print the whole end date.

433 `\ifthenelse{\equal{\number#1}{\number#4}}{%`
434 `\ifthenelse{\equal{\number#2}{\number#5}}{\iso@printday{#6}{%`
435 `} {\iso@printmonthday@danhish{#5}{#6}}}{%`
436 `\csname iso@printdate@\iso@languagename\endcsname{#4}{#5}{#6}}{%`
437 `}{%`

Numeric, short, or original date format.

If year and month are equal, only print the day of the start date. If only the year is equal, only print month and day of the start date. Otherwise print the whole start date.

438 `\ifthenelse{\equal{\number#1}{\number#4}}{%`
439 `\ifthenelse{\equal{\number#2}{\number#5}}{%`
440 `\ifthenelse{\equal{\iso@dateformat}{orig}\or`
441 `\equal{\iso@dateformat}{shortorig}}{%`
442 `\iso@printday{#3}{\iso@printday{#3}{%`
443 `} {\iso@printmonthday@danhish{#2}{#3}}}{%`
444 `\begingroup`
445 `\printyearon`
446 `\csname iso@printdate@\iso@languagename\endcsname{%`
447 `#1}{#2}{#3}{%`
448 `\endgroup}{%`

Print the end date.

449 `\iso@rangesign\csname iso@printdate@\iso@languagename\endcsname{%`
450 `#4}{#5}{#6}{%`
451 `}{%`
452 `}{%`
453 `}`

`\iso@rangesign@danhish` Sets the word between start and end date in a date range to “ til ”.

454 `\expandafter\def\csname iso@rangesign@\CurrentOption\endcsname{\~til~}`

Define the language name that will be the active language for isodate if none of the packages babel.sty, german.sty, and ngerman.sty is loaded and if this is the last language that is used for isodate. If one of the above packages is used this definition

will be overridden by the command `\languagename` that will always return the current used language.

```
455 \def\iso@languagename{danish}%
```

Redefine the command `\datedanish` that is used by babel to switch to the original Danish date format to enable the use of different date formats. This has to be done after the preamble in order to ensure to overwrite the babel command.

```
456 \AtBeginDocument{%
457   \ifx\undefined\iso@datedanish\else
458     \def\datedanish{\iso@datedanish}%
459   \fi
460 }
461 </danish>
```

D.3 Language definition file english.idf

`\iso@languageloaded` Define the command `\iso@languageloaded` in order to enable `isodate.sty` to determine if at least one language is loaded.

```
462 <english>
463 \let\iso@languageloaded\active
```

`\month@english` Prints the name of today's month in the long form for the original date format.

```
464 \def\month@english{\ifcase\month\or
465   January\or February\or March\or April\or May\or June\or
466   July\or August\or September\or October\or November\or December\fi}
```

British and American English dates are very different. So handle them seperately. It might have been easier to put them in different files but I wanted to organize my files analogous to babel.

First handle British English.

```
467 \ifthenelse{\equal{\CurrentOption}{english}\or
468   \equal{\CurrentOption}{british}\or
469   \equal{\CurrentOption}{UKenglish}}{%
470 \typeout{Define commands for English date format}}
```

`\day@english` Prints today's day for the original date format.

```
471 \def\day@english{%
472   \ifiso@cleanlook
473     \day
474   \else
475     \ifcase\day\or
476       1st\or 2nd\or 3rd\or 4th\or 5th\or
477       6th\or 7th\or 8th\or 9th\or 10th\or
478       11th\or 12th\or 13th\or 14th\or 15th\or
479       16th\or 17th\or 18th\or 19th\or 20th\or
480       21st\or 22nd\or 23rd\or 24th\or 25th\or
481       26th\or 27th\or 28th\or 29th\or 30th\or
482       31st%
```

```

483      \fi
484      \fi
485  }

\iso@printmonthday@english Prints the month and the day given as two arguments ({mm}{dd}) in the current
date format.
486  \def\iso@printmonthday@english#1#2{%
  Numeric and short date format: dd/mm/
487  \ifthenelse{\equal{\iso@dateformat}{numeric}\or%
488    \equal{\iso@dateformat}{short}}{%
489    \iso@printday{#2}/\iso@printmonth{#1}\ifiso@printyear/\fi}{%
  ISO date format: mm-dd
490  \ifthenelse{\equal{\iso@dateformat}{iso}}{%
491    \iso@printmonth{#1}\iso@isodash\iso@printday{#2}}{%
  LATEX date format: mm/dd
492  \ifthenelse{\equal{\iso@dateformat}{TeX}}{%
493    \iso@printmonth{#1}/\iso@printday{#2}}{%
  Original date format: ddd mmm
494  \ifthenelse{\equal{\iso@dateformat}{orig}\or%
495    \equal{\iso@dateformat}{shortorig}}{%
496    \begingroup
497    \edef\lday{#2}\def\day{\lday}%
498    \edef\lmonth{#1}\def\month{\lmonth}%
499    \day@english~\month@english%
500    \endgroup
501  }{}{}}{%
502}

\iso@printdate@english Prints the date given as three arguments ({yyyy}{mm}{dd}) in the actual date
format.
503  \def\iso@printdate@english#1#2#3{%
  ISO date format: yyyy-\iso@printmonthday@english
504  \ifthenelse{\equal{\iso@dateformat}{iso}}{%
505    \ifiso@printyear\iso@yearfour{\number#1}\iso@isodash\fi}{%
  LATEX date format: yyyy/\iso@printmonthday@english
506  \ifthenelse{\equal{\iso@dateformat}{TeX}}{%
507    \ifiso@printyear\iso@yearfour{\number#1}/\fi}{%
508    \iso@printmonthday@english{\number#2}{\number#3}}{%
  Numeric date format: \iso@printmonthday@english yyyy
509  \ifiso@printyear
510    \ifthenelse{\equal{\iso@dateformat}{numeric}}{\iso@yearfour{\number#1}}{%
  Original date format: \iso@printmonthday@english~yyyy
511    \ifthenelse{\equal{\iso@dateformat}{orig}}{\~\iso@yearfour{\number#1}}{%

```

```

Short original date format: \iso@printmonthday@english~yy
512      \ifthenelse{\equal{\iso@dateformat}{shortorig}}{%
513          ~\iso@twodigitsign\iso@yeartwo{\number#1}}{%
Short date format: \iso@printmonthday@english yy
514      \ifthenelse{\equal{\iso@dateformat}{short}}{%
515          \iso@yeartwo{\number#1}}{%
516      }{%
517      }{%
518      \fi
519  }

\iso@printdate@UKenglish Just a second name for \iso@printdate@UKenglish.
520  \def\iso@printdate@UKenglish{\iso@printdate@english}
521  \def\iso@printdate@british{\iso@printdate@english}

\iso@dateenglish This command redefines the \today command to print in the actual date format.
522  \def\iso@dateenglish{%
523      \def\today{\iso@printdate@english{\year}{\month}{\day}}{%
\iso@daterange@... Define date-range commands for dialects of English.
524  \expandafter\def\csname iso@daterange@\CurrentOption\endcsname{%
525      \iso@daterange@english}{%
\iso@daterange@english This command takes six arguments ({yyyy1}{mm1}{dd1}{yyyy2}{mm2}{dd2}) and prints the corresponding date range in the actual date format.
526  \def\iso@daterange@english#1#2#3#4#5#6{%
ISO or LATEX date format.
527  \ifthenelse{\equal{\iso@dateformat}{iso}}{%
528      \equal{\iso@dateformat}{TeX}}{%
Print the start date.
529  \csname iso@printdate@\iso@languagename\endcsname{%
530      #1}{#2}{#3}\iso@rangesign{%
If year and month are equal, only print the day of the end date. If only the year is equal, only print month and day of the end date. Otherwise print the whole end date.
531  \ifthenelse{\equal{\number#1}{\number#4}}{%
532      \ifthenelse{\equal{\number#2}{\number#5}}{\iso@printday{#6}}{%
533          \{\iso@printmonthday@english{#5}{#6}}}{%
534      \csname iso@printdate@\iso@languagename\endcsname{#4}{#5}{#6}}{%
Numeric, short, or original date format.
If year and month are equal, only print the day of the start date. If only the year is equal, only print month and day of the start date. Otherwise print the whole start date.
535  \ifthenelse{\equal{\number#1}{\number#4}}{%
536      \ifthenelse{\equal{\number#2}{\number#5}}{%

```

```

537      \ifthenelse{\equal{\iso@dateformat}{orig}\or%
538                  \equal{\iso@dateformat}{shortorig}}{%
539          \begingroup
540              \edef\lday{\#3}\def\day{\lday}%
541              \day@english\endgroup\{\iso@printday{\#3}\}%
542      }{\iso@printmonthday@english{\#2}{\#3}}{%
543          \csname iso@printdate@\iso@languagename\endcsname{\#1}{\#2}{\#3}}%
544      \iso@rangesign\csname iso@printdate@\iso@languagename\endcsname{%
545          \#4}{\#5}{\#6}}{%
546  }{%
547  }{%
548 }

```

Define the language name that will be the active language for isodate if none of the packages babel.sty, german.sty, and ngerman.sty is loaded and if this is the last language that is used for isodate. If one of the above packages is used this definition will be overridden by the command \languagename that will always return the current used language.

```
549 \def\iso@languagename{english}%
```

The end of the British section.

Second handle Australian and New Zealand.

```

550 }{%
551 \ifthenelse{\equal{\CurrentOption}{australian}\or%
552             \equal{\CurrentOption}{newzealand}}{%
553     \typeout{Define commands for Australian date format}

```

\iso@printmonthday@australian Prints the month and the day given as two arguments ({mm}{dd}) in the current date format.

```
554 \def\iso@printmonthday@australian#1#2{%
```

Numeric and short date format: dd/mm/

```

555 \ifthenelse{\equal{\iso@dateformat}{numeric}\or%
556             \equal{\iso@dateformat}{short}}{%
557     \iso@printday{\#2}/\iso@printmonth{\#1}\ifiso@printyear/\fi}{}%

```

ISO date format: mm-dd

```

558 \ifthenelse{\equal{\iso@dateformat}{iso}}{%
559     \iso@printmonth{\#1}\iso@isodash\iso@printday{\#2}}{}%

```

L^AT_EX date format: mm/dd

```

560 \ifthenelse{\equal{\iso@dateformat}{TeX}}{%
561     \iso@printmonth{\#1}/\iso@printday{\#2}}{}%

```

Original date format: ddd mmm

```

562 \ifthenelse{\equal{\iso@dateformat}{orig}\or%
563             \equal{\iso@dateformat}{shortorig}}{%
564     \begingroup
565         \edef\lday{\#2}\def\day{\lday}%

```

```

566          \edef\lmonth{\#1}\def\month{\lmonth}%
567          \iso@printday{\#2}~\month@english%
568          \endgroup
569          }{}{}}%
570      }

\iso@printdate@australian Prints the date given as three arguments ({yyyy}{mm}{dd}) in the actual date
format.

571      \def\iso@printdate@australian#1#2#3{%
ISO date format: yyyy-\iso@printmonthday@australian
572          \ifiso@printyear
573              \ifthenelse{\equal{\iso@dateformat}{iso}}{%
574                  \iso@yearfour{\number#1}\iso@isodash}{%
575                  \textrm{ATEX} date format: yyyy/\iso@printmonthday@australian
576                      \ifthenelse{\equal{\iso@dateformat}{TeX}}{%
577                          \iso@yearfour{\number#1}/}{}
578                      }%
579                  \iso@printmonthday@australian{\number#2}{\number#3}%
580                  Numeric date format: \iso@printmonthday@australian yyyy
581                      \ifiso@printyear
582                          \ifthenelse{\equal{\iso@dateformat}{numeric}}{%
583                              \iso@yearfour{\number#1}}{%
584                              Original date format: \iso@printmonthday@australian~yyyy
585                                  \ifthenelse{\equal{\iso@dateformat}{orig}}{%
586                                      ~\iso@yearfour{\number#1}}{%
587                                      Short original date format: \iso@printmonthday@australian~yy
588                                          \ifthenelse{\equal{\iso@dateformat}{shortorig}}{%
589                                              \iso@yeartwo{\number#1}}{%
590                                              }{%
591                                              \fi
592          }}

\iso@printdate@newzealand Just a second name for \iso@printdate@UKenglish.
593      \def\iso@printdate@newzealand{\iso@printdate@australian}

\iso@dateaustralian This command redefines the \today command to print in the actual date format.
594      \def\iso@dateaustralian{%
595          \def\today{\iso@printdate@australian{\year}{\month}{\day}}{%
596          \expandafter\def\csname iso@daterange@\CurrentOption\endcsname{%
597              \iso@daterange@australian}{%

```

\iso@daterange@australian This command takes six arguments ({yyyy1}{mm1}{dd1}{yyyy2}{mm2}{dd2}) and prints the corresponding date range in the actual date format.

```

598      \def\iso@daterange@australian#1#2#3#4#5#6{%
  ISO or LATEX date format.
599      \ifthenelse{\equal{\iso@dateformat}{\iso}\or%
600                  \equal{\iso@dateformat}{\TeX}}{%
  Print the start date.
601      \csname iso@printdate@\iso@languagename\endcsname{%
602          #1}{#2}{#3}\iso@rangesign{%
  If year and month are equal, only print the day of the end date. If only the year is
  equal, only print month and day of the end date. Otherwise print the whole end
  date.
603      \ifthenelse{\equal{\number#1}{\number#4}}{%
604          \ifthenelse{\equal{\number#2}{\number#5}}{\iso@printday{#6}}{%
605              \{\iso@printmonthday@australian{#5}{#6}}{%
606          \csname iso@printdate@\iso@languagename\endcsname{#4}{#5}{#6}}{%
  Numeric, short, or original date format.
  If year and month are equal, only print the day of the start date. If only the
  year is equal, only print month and day of the start date. Otherwise print the
  whole start date.
607      \ifthenelse{\equal{\number#1}{\number#4}}{%
608          \ifthenelse{\equal{\number#2}{\number#5}}{%
609              \ifthenelse{\equal{\iso@dateformat}{\orig}}{%
610                  \begingroup
611 %                     \edef\lday{#3}\def\day{\lday}%
612                     \iso@printday{#3}\endgroup\{\iso@printday{#3}}{%
613             \{\iso@printmonthday@australian{#2}{#3}}{%
614             \csname iso@printdate@\iso@languagename\endcsname{#1}{#2}{#3}}{%
  Print the end date.
615      \iso@rangesign\csname iso@printdate@\iso@languagename\endcsname{%
616          #4}{#5}{#6}}{%
617      }{%
618      }%
619  }

```

Define the language name that will be the active language for isodate if none of the packages babel.sty, german.sty, and ngerman.sty is loaded and if this is the last language that is used for isodate. If one of the above packages is used this definition will be overridden by the command \languagename that will always return the current used language.

```

620      \def\iso@languagename{australian}%
The end of the Australian section.
Third, handle American.
621  }{%
622  \typeout{Define commands for American date format}

```

```

\iso@printmonthday@american Prints the month and the day given as two arguments ({mm}{dd}) in the current
date format.

623      \def\iso@printmonthday@american#1#2{%
    Numeric and short date format: mm/dd/
624          \ifthenelse{\equal{\iso@dateformat}{numeric}\or%
625              \equal{\iso@dateformat}{short}}{%
626                  \iso@printmonth{#1}/\iso@printday{#2}\ifiso@printyear\fi}{%
    ISO date format: mm-dd
627          \ifthenelse{\equal{\iso@dateformat}{iso}}{%
628              \iso@printmonth{#1}\iso@isodash\iso@printday{#2}}{%
    LATEX date format: mm/dd
629          \ifthenelse{\equal{\iso@dateformat}{TeX}}{%
630              \iso@printmonth{#1}/\iso@printday{#2}}{%
    Original date format: mmm d
631          \ifthenelse{\equal{\iso@dateformat}{orig}\or%
632              \equal{\iso@dateformat}{shortorig}}{%
633                  \begingroup%
634                      \edef\lmonth{#1}%
635                          \def\month{\lmonth}\month@english%
636                      \endgroup
637                          ~\iso@printday{#2}%
638                  }{}{%
639          }%
640      }

```

\iso@printdate@american Prints the date given as three arguments ({yyyy}{mm}{dd}) in the actual date format.

```

641      \def\iso@printdate@american#1#2#3{%
    ISO date format: yyyy-\iso@printmonthday@american
642          \ifiso@printyear
643              \ifthenelse{\equal{\iso@dateformat}{iso}}{%
644                  \iso@yearfour{\number#1}\iso@isodash}{%
    LATEX date format: yyyy/\iso@printmonthday@american
645          \ifthenelse{\equal{\iso@dateformat}{TeX}}{%
646              \iso@yearfour{\number#1}/}{%
647          \fi
648          \iso@printmonthday@american{\number#2}{\number#3}%
    Numeric date format: \iso@printmonthday@american yyyy
649          \ifiso@printyear
650              \ifthenelse{\equal{\iso@dateformat}{numeric}}{%
651                  \iso@yearfour{\number#1}}{%
    Original date format: \iso@printmonthday@american,~yyyy
652          \ifthenelse{\equal{\iso@dateformat}{orig}}{%
653              ,~\iso@yearfour{\number#1}}{%

```



```

679      \ifthenelse{\equal{\number#2}{\number#5}}{%
680          \iso@printmonthday@american{#2}{#3}\iso@rangesign%
681          \iso@printday{#6},~%
682      \ifthenelse{\equal{\iso@dateformat}{orig}}{%
683          \number#4}{\iso@twodigitsign\iso@yeartwo{\number#4}}{%
684      }{%
685          \iso@printmonthday@american{#2}{#3}\iso@rangesign%
686          \csname iso@printdate@\iso@languagename\endcsname{%
687              #4}{#5}{#6}}{%
688          \csname iso@printdate@\iso@languagename\endcsname{#1}{#2}{#3}%
689          \iso@rangesign%
690          \csname iso@printdate@\iso@languagename\endcsname{%
691              #4}{#5}{#6}}{%

```

Numeric or short date format.

If year and month are equal, only print the day of the end date. Otherwise print the whole end date.

```

692      \ifthenelse{\equal{\number#1}{\number#4}}{%
693          \iso@printmonthday@american{#2}{#3}}{%
694          \csname iso@printdate@\iso@languagename\endcsname{#1}{#2}{#3}}{%

```

Print the end date.

```

695          \iso@rangesign\csname iso@printdate@\iso@languagename\endcsname{%
696              #4}{#5}{#6}}{%
697      }{%
698  }

```

Define the language name that will be the active language for isodate if none of the packages babel.sty, german.sty, and ngerman.sty is loaded and if this is the last language that is used for isodate. If one of the above packages is used this definition will be overridden by the command \languagename that will always return the current used language.

```
699      \def\iso@languagename{american}%

```

The end of the American section.

```

700  }
701 }

```

\iso@rangesign@... Sets the word between start and end date in a date range to “to”.

```
702 \expandafter\def\csname iso@rangesign@\CurrentOption\endcsname{`to`}
```

Redefine the command datelanguage that is used by babel.sty, german.sty, and ngerman.sty to switch to the original English/American date format to enable the use of different date formats. This has to be done after the preamble in order to ensure to overwrite the babel command.

Do this only if \iso@datelanguage is defined.

```

703 \AtBeginDocument{%
704     \ifx\undefined\iso@dateenglish\else
705         \def\dateenglish{\iso@dateenglish}%
706         \def\datebritish{\iso@dateenglish}%

```

```

707     \def\dateUKenglish{\iso@dateenglish}%
708   \fi
709   \ifx\undefined\iso@dateaustralian\else
710     \def\dateaustralian{\iso@dateaustralian}%
711     \def\datenewzealand{\iso@dateaustralian}%
712   \fi
713   \ifx\undefined\iso@dateamerican\else
714     \def\dateamerican{\iso@dateamerican}%
715     \def\dateUSenglish{\iso@dateamerican}%
716   \fi
717 }
718 /english

```

D.4 Language definition file french.idf

- \iso@languageloaded Define the command \iso@languageloaded in order to enable *isodate.sty* to determine if at least one language is loaded.

```

719 <*french>
720 \let\iso@languageloaded\active
721 \typeout{Define commands for French date format}

722 \def\month@french{\ifcase\month\or
723   janvier\or f\'evrier\or mars\or avril\or mai\or juin\or
724   juillet\or ao\^ut\or septembre\or octobre\or novembre\or
725   d\'ecembre\fi}

726 \def\iso@printmonthday@french#1#2{%
727   \ifthenelse{\equal{\iso@dateformat}{numeric}\or%
728     \equal{\iso@dateformat}{short}}{%
729     \iso@printday{#2}/\iso@printmonth{#1}\ifiso@printyear/\fi}{%
730     \ifthenelse{\equal{\iso@dateformat}{iso}}{%
731       \ifiso@printyear\iso@isodash\fi\iso@printmonth{#1}%
732       \iso@isodash\iso@printday{#2}}{%
733       \ifthenelse{\equal{\iso@dateformat}{TeX}}{%
734         \ifiso@printyear/\fi\iso@printmonth{#1}/\iso@printday{#2}}{%
735         \ifthenelse{\equal{\iso@dateformat}{orig}\or%
736           \equal{\iso@dateformat}{shortorig}}{%
737             \begingroup
738               \edef\lday{#2}\edef\day{\lday}%
739               \edef\lmonth{#1}\def\month{\lmonth}%
740               \number\day\ifnum1=\day \noexpand\ier\fi^\month@french%
741             \endgroup
742           }}}}%
743 }

744 \def\iso@printdate@french#1#2#3{%
745   \ifthenelse{\equal{\iso@dateformat}{iso}\or%
746     \equal{\iso@dateformat}{TeX}}{%
747       \ifiso@printyear\iso@yearfour{\number#1}\fi}{%
748       \iso@printmonthday@french{\number#2}{\number#3}}%
749   \ifiso@printyear

```

```

750 \ifthenelse{\equal{\iso@dateformat}{numeric}}{\iso@yearfour{\number#1}}{%
751   \ifthenelse{\equal{\iso@dateformat}{orig}}{\iso@yearfour{\number#1}}{%
752     \ifthenelse{\equal{\iso@dateformat}{shortorig}}{%
753       ^\iso@twodigitsign\iso@yeartwo{\number#1}}{%
754         \ifthenelse{\equal{\iso@dateformat}{short}}{%
755           \iso@yeartwo{\number#1}{}{}}{%
756         \fi
757     }
758 \def\iso@datefrench{%
759   \def\today{\iso@printdate@french{\year}{\month}{\day}}}}%

```

\iso@daterange@... Define date-range commands for dialects.

```

760 \expandafter\def\csname iso@daterange@\CurrentOption\endcsname{%
761   \iso@daterange@french}%

```

```

762 \def\iso@daterange@french#1#2#3#4#5#6{%
763   \ifthenelse{\equal{\iso@dateformat}{iso}}{%
764     \equal{\iso@dateformat}{TeX}}{%
765       \csname iso@printdate@\iso@languagename\endcsname{#1}{#2}{#3}}%
766     \iso@rangesign%
767     \ifthenelse{\equal{\number#1}{\number#4}}{%
768       \ifthenelse{\equal{\number#2}{\number#5}}{\iso@printday{#6}}{%
769         }{\iso@printmonthday@french{#5}{#6}}}}{%
770       \csname iso@printdate@\iso@languagename\endcsname{#4}{#5}{#6}}}}%

```

```

771 \ifthenelse{\equal{\number#1}{\number#4}}{%
772   \ifthenelse{\equal{\number#2}{\number#5}}{%
773     \ifthenelse{\equal{\iso@dateformat}{orig}}{%
774       \begingroup
775         \edef\lday{\#3}\edef\day{\lday}%
776         \number\day\ifnum1=\day \noexpand\ier\fi
777       \endgroup{\iso@printday{#3}}%
778     }{\iso@printmonthday@french{#2}{#3}}}}{%
779       \csname iso@printdate@\iso@languagename\endcsname{#1}{#2}{#3}}}}%
780 \iso@rangesign\csname iso@printdate@\iso@languagename\endcsname{%
781   #4}{#5}{#6}}}}%
782 }{%
783 }%
784 }%

```

```

785 \expandafter\def\csname iso@rangesign@\CurrentOption\endcsname{~au~}

```

Define the language name that will be the active language for isodate if none of the packages babel.sty, german.sty, and ngerman.sty is loaded and if this is the last language that is used for isodate. If one of the above packages is used this definition will be overridden by the command \languagename that will always return the current used language.

```
786 \def\iso@languagename{french}%

```

\datefrenchb has to be defined additionally because babel starts with language frenchb instead of french.

```

787 \AtBeginDocument{%
788   \ifx\undefined\iso@datefrench\else
789     \def\datefrench{\iso@datefrench}%
790     \def\datefrenchb{\iso@datefrench}%
791   \fi
792 }
793 </french>

```

D.5 Language definition file german.idf

\iso@languageloaded Define the command \iso@languageloaded in order to enable `isodate.sty` to determine if at least one language is loaded.

```

794 {*german}
795 \let\iso@languageloaded\active
796 \typeout{Define commands for German date format (\CurrentOption)}

```

Define spaces between day and month resp. month and year. `dm` stands for day-month and `my` for month-year. The defaults are taken from the Duden [2].

```

797 \def\iso@dmsepgerman{,}%
798 \def\iso@mylongsepgerman{~}%
799 \def\iso@myshortsepgerman{,}%

```

\daymonthsepgerman Change space between day and month in numeric date formats for the German language. The only parameter is the new spacing.

```

800 \DeclareRobustCommand*\daymonthsepgerman[1]{\def\iso@dmsepgerman{\#1}}
801 % \begin{macrocode}
802 % \end{macro}
803 % \begin{macro}{\monthyearsepgerman}
804 % Change space between month and year in numeric date formats for the
805 % German language. The first parameter is the new spacing for the long
806 % format and the second for the short format.
807 % \begin{macrocode}
808 \DeclareRobustCommand*\monthyearsepgerman[2]{%
809   \def\iso@mylongsepgerman{\#1}%
810   \def\iso@myshortsepgerman{\#2}%

```

```

811 \def\month@german{\ifcase\month\or
812   Januar\or Februar\or M\"arz\or April\or Mai\or Juni\or
813   Juli\or August\or September\or Oktober\or November\or Dezember\fi}
814 \def\month@ngerman{\month@german}
815 \def\month@austrian{\ifnum1=\month
816   J\"anner\else \month@german\fi}
817 \def\month@naustrian{\month@austrian}

818 \namedef{iso@printmonthday@\CurrentOption}{\#1\#2}{%
819   \ifthenelse{\equal{\iso@dateformat}{numeric}\or%
820             \equal{\iso@dateformat}{short}}{%
821     \iso@printday{\#2}.\iso@dmsepgerman\iso@printmonth{\#1}.}{%
822     \ifthenelse{\equal{\iso@dateformat}{iso}}{%

```

```

823     \iso@printmonth{#1}\iso@isodash\iso@printday{#2}{}{%
824     \ifthenelse{\equal{\iso@dateformat}{TeX}}{%
825         \iso@printmonth{#1}/\iso@printday{#2}{}{%
826         \ifthenelse{\equal{\iso@dateformat}{orig}}{\or
827             \equal{\iso@dateformat}{shortorig}}{%
828             \iso@printday{#2}.~\begingroup
829             \edef\lmonth{#1}%
830             \def\month{\lmonth}\csname month@\iso@languagename\endcsname%
831             \endgroup
832         }{}{}}%
833     }%
834 \namedef{iso@printdate@\CurrentOption}{#1#2#3}{%
835     \ifiso@printyear
836         \ifthenelse{\equal{\iso@dateformat}{iso}}{%
837             \iso@yearfour{\number#1}\iso@isodash}{%
838             \ifthenelse{\equal{\iso@dateformat}{TeX}}{%
839                 \iso@yearfour{\number#1}/{}{}}%
840     \fi
841     \csname iso@printmonthday@\iso@languagename\endcsname{%
842         \number#2}{\number#3}%
843     \ifiso@printyear
844         \ifthenelse{\equal{\iso@dateformat}{numeric}}{%
845             \iso@mylongsepgerman\iso@yearfour{\number#1}}{%
846             \ifthenelse{\equal{\iso@dateformat}{orig}}{~\iso@yearfour{\number#1}}{%
847                 \ifthenelse{\equal{\iso@dateformat}{shortorig}}{%
848                     ~\iso@twodigitsign\iso@yeartwo{\number#1}}{%
849                     \ifthenelse{\equal{\iso@dateformat}{short}}{%
850                         \iso@myshortsepgerman\iso@yeartwo{\number#1}}{}}}}%
851     \fi
852 }%
853 \namedef{iso@daterange@\CurrentOption}{#1#2#3#4#5#6}{%
854     \ifthenelse{\equal{\iso@dateformat}{iso}}{\or
855         \equal{\iso@dateformat}{TeX}}{%
856         \csname iso@printdate@\iso@languagename\endcsname{#1}{#2}{#3}%
857         \iso@rangesign%
858         \ifthenelse{\equal{\number#1}{\number#4}}{%
859             \ifthenelse{\equal{\number#2}{\number#5}}{\iso@printday{#6}}{%
860                 }{\csname iso@printmonthday@\iso@languagename\endcsname{#5}{#6}}}{%
861                 \csname iso@printdate@\iso@languagename\endcsname{#4}{#5}{#6}}{%
862             \ifthenelse{\equal{\number#1}{\number#4}}{%
863                 \ifthenelse{\equal{\number#2}{\number#5}}{%
864                     \ifthenelse{\equal{\iso@dateformat}{orig}}{%
865                         \iso@printday{#3}{\iso@printday{#3}}.%
866                         }{\csname iso@printmonthday@\iso@languagename\endcsname{%
867                             #2}{#3}}}{%
868                         \csname iso@printdate@\iso@languagename\endcsname{#1}{#2}{#3}}{%
869                         \iso@rangesign\csname iso@printdate@\iso@languagename\endcsname{%
870                             #4}{#5}{#6}}{%
871             }%

```

```

872 }
873 \expandafter\def\csname iso@rangesign@\CurrentOption\endcsname{`bis`}
874 \ifthenelse{\equal{\CurrentOption}{german}}{%
875   \def\iso@dategerman{%
876     \def\today{\iso@printdate@german{\year}{\month}{\day}}}}

```

Define the language name that will the active language for isodate if none of the packages babel.sty, german.sty, and ngerman.sty is loaded and if this is the last language that is used for isodate. If one of the above packages is used this definition will be overridden by the command `\languagename` that will always return the current used language.

```

877   \def\iso@languagename{german}%
878 }{%
879 \ifthenelse{\equal{\CurrentOption}{ngerman}}{%
880   \def\iso@datengerman{%
881     \def\today{\iso@printdate@ngerman{\year}{\month}{\day}}}}

```

Define the language name that will the active language for isodate if none of the packages babel.sty, german.sty, and ngerman.sty is loaded and if this is the last language that is used for isodate. If one of the above packages is used this definition will be overridden by the command `\languagename` that will always return the current used language.

```

882   \def\iso@languagename{ngerman}%
883 }{%
884 \ifthenelse{\equal{\CurrentOption}{austrian}}{%
885   \def\iso@dateaustrian{%
886     \def\today{\iso@printdate@austrian{\year}{\month}{\day}}}}

```

Define the language name that will the active language for isodate if none of the packages babel.sty, german.sty, and ngerman.sty is loaded and if this is the last language that is used for isodate. If one of the above packages is used this definition will be overridden by the command `\languagename` that will always return the current used language.

```

887   \def\iso@languagename{austrian}%
888 }{%
889 \ifthenelse{\equal{\CurrentOption}{naustrian}}{%
890   \def\iso@datenaustrian{%
891     \def\today{\iso@printdate@naustrian{\year}{\month}{\day}}}}

```

Define the language name that will the active language for isodate if none of the packages babel.sty, german.sty, and ngerman.sty is loaded and if this is the last language that is used for isodate. If one of the above packages is used this definition will be overridden by the command `\languagename` that will always return the current used language.

```

892   \def\iso@languagename{naustrian}%
893 }{%
894 }}}

```

Redefine the command `datelanguage` that is used by `babel.sty`, `german.sty`, and `ngerman.sty` to switch to the original German date format to enable the use of different date formats. This has to be done after the preamble in order to ensure to overwrite the `babel` command.

Do this only if `\iso@datelanguage` is defined.

```

895 \AtBeginDocument{%
896   \ifx\undefined\iso@dategerman\else
897     \def\dategerman{\iso@dategerman}%
898   \fi
899   \ifx\undefined\iso@datengerman\else
900     \def\datengerman{\iso@datengerman}%
901   \fi
902   \ifx\undefined\iso@dateaustrian\else
903     \def\dateaustrian{\iso@dateaustrian}%
904   \fi
905   \ifx\undefined\iso@datenaustrian\else
906     \def\datenaustrian{\iso@datenaustrian}%
907   \fi
908 }
909 </german>

```

D.6 Language definition file `italian.idf`

`\iso@languageloaded` Define the command `\iso@languageloaded` in order to enable `isodate.sty` to determine if at least one language is loaded.

```

910 <*italian>
911 \let\iso@languageloaded\active
912 \typeout{Define commands for Italian date format}

913 \def\month@italian{\ifcase\month\or
914   gennaio\or febbraio\or marzo\or aprile\or maggio\or giugno\or
915   luglio\or agosto\or settembre\or ottobre\or novembre\or
916   dicembre\fi}

917 \def\iso@printmonthday@italian#1#2{%
918   \ifthenelse{\equal{\iso@dateformat}{numeric}\or%
919     \equal{\iso@dateformat}{short}}{%
920       \iso@printday{#2}/\iso@printmonth{#1}\ifiso@printyear/\fi}{%
921       \ifthenelse{\equal{\iso@dateformat}{iso}}{%
922         \ifiso@printyear\iso@isodash\fi\iso@printmonth{#1}%
923         \iso@isodash\iso@printday{#2}}{%
924         \ifthenelse{\equal{\iso@dateformat}{TeX}}{%
925           \ifiso@printyear/\fi\iso@printmonth{#1}/\iso@printday{#2}}{%
926           \ifthenelse{\equal{\iso@dateformat}{orig}\or%
927             \equal{\iso@dateformat}{shortorig}}{%
928               \begingroup
929               \edef\lday{\#2}\edef\day{\lday}%
930               \edef\lmonth{\#1}\def\month{\lmonth}%
931               \number\day\ifnum1=\day \noexpand\textrordmasculine\fi~\month@italian%

```

```

932         \endgroup
933     }{}%}
934 }
935 \def\iso@printdate@italian#1#2#3{%
936   \ifthenelse{\equal{\iso@dateformat}{iso}}{\or%
937     \equal{\iso@dateformat}{TeX}}{%
938     \ifiso@printyear\iso@yearfour{\number#1}\fi}{%
939     \iso@printmonthday@italian{\number#2}{\number#3}}%
940   \ifiso@printyear
941     \ifthenelse{\equal{\iso@dateformat}{numeric}}{\iso@yearfour{\number#1}}{%
942       \ifthenelse{\equal{\iso@dateformat}{orig}}{\iso@yearfour{\number#1}}{%
943         \ifthenelse{\equal{\iso@dateformat}{shortorig}}{%
944           \iso@twodigitsign\iso@yeartwo{\number#1}}{%
945             \ifthenelse{\equal{\iso@dateformat}{short}}{%
946               \iso@yeartwo{\number#1}}{}}}}%
947   \fi
948 }
949 \def\iso@dateitalian{%
950   \def\today{\iso@printdate@italian{\year}{\month}{\day}}%
\iso@daterange@... Define date-range commands for dialects.
951 \expandafter\def\csname iso@daterange@\CurrentOption\endcsname{%
952   \iso@daterange@italian}%
953 \def\iso@daterange@italian#1#2#3#4#5#6{%
954   \ifthenelse{\equal{\iso@dateformat}{iso}}{\or%
955     \equal{\iso@dateformat}{TeX}}{%
956       \csname iso@printdate@\iso@languagename\endcsname{#1}{#2}{#3}}%
957     \iso@rangesign%
958   \ifthenelse{\equal{\number#1}{\number#4}}{%
959     \ifthenelse{\equal{\number#2}{\number#5}}{\iso@printday{#6}}{%
960       \ifiso@printmonthday@italian{#5}{#6}}{%
961         \csname iso@printdate@\iso@languagename\endcsname{#4}{#5}{#6}}{%
962       \ifthenelse{\equal{\number#1}{\number#4}}{%
963         \ifthenelse{\equal{\number#2}{\number#5}}{%
964           \ifthenelse{\equal{\iso@dateformat}{orig}}{%
965             \begingroup
966               \edef\lday{\#3}\edef\day{\lday}%
967               \number\day\ifnum1=\day \noexpand\textordmasculine\fi
968             \endgroup\iso@printday{#3}}{%
969               \ifiso@printmonthday@italian{#2}{#3}}{%
970                 \csname iso@printdate@\iso@languagename\endcsname{#1}{#2}{#3}}{%
971               \iso@rangesign\csname iso@printdate@\iso@languagename\endcsname{%
972                 #4}{#5}{#6}}{%
973             }{%
974           }%}
975 }
976 \expandafter\def\csname iso@rangesign@\CurrentOption\endcsname{`al`}

```

Define the language name that will be the active language for `isodate` if none of the packages `babel.sty`, `german.sty`, and `ngerman.sty` is loaded and if this is the last language that is used for `isodate`. If one of the above packages is used this definition will be overridden by the command `\languagename` that will always return the current used language.

```
977 \def\iso@languagename{italian}%
978 \AtBeginDocument{%
979   \ifx\undefined\iso@dateitalian\else
980     \def\dateitalian{\iso@dateitalian}%
981   \fi
982 }
983 </italian>
```

D.7 Language definition file `norsk.idf`

This file was provided by Svend Tollak Munkejord (`svend.t.munkejord@energy.sintef.no`).

`\iso@languageloaded` Define the command `\iso@languageloaded` in order to enable `isodate.sty` to determine if at least one language is loaded.

```
984 <*norsk>
985 \let\iso@languageloaded\active
986 \typeout{Define commands for Norwegian date format}
```

`\month@norsk` Prints the name of today's month in the long form for the original date format.

```
987 \def\month@norsk{\ifcase\month\or
988   januar\or februar\or mars\or april\or mai\or juni\or
989   juli\or august\or september\or oktober\or november\or desember\fi}
```

`\iso@printmonthday@norsk` Prints the month and the day given as two arguments (`{mm}{dd}`) in the current date format.

```
990 \def\iso@printmonthday@norsk#1#2{%
  Numeric and short date format: dd/mm/
  991 \ifthenelse{\equal{\iso@dateformat}{numeric}\or%
  992   \equal{\iso@dateformat}{short}}{%
  993   \iso@printday{#2}/\iso@printmonth{#1}\ifiso@printyear/\fi}{%
  ISO date format: -mm-dd
  994 \ifthenelse{\equal{\iso@dateformat}{iso}}{%
  995   \ifiso@printyear\iso@isodash\fi
  996   \iso@printmonth{#1}\iso@isodash\iso@printday{#2}}{%
  LATEX date format: /mm/dd
  997 \ifthenelse{\equal{\iso@dateformat}{TeX}}{%
  998   \ifiso@printyear/\fi\iso@printmonth{#1}/\iso@printday{#2}}{%
  Original date format: d. mmm
  999 \ifthenelse{\equal{\iso@dateformat}{orig}\or%
  1000   \equal{\iso@dateformat}{shortorig}}{%
```

```

1001      \iso@printday{#2}.~\begingroup
1002      \edef\lmonth{\#1}\def\month{\lmonth}%
1003      \month@norsk%
1004      \endgroup
1005      }{}{}%}
1006  }

\iso@printdate@norsk Prints the date given as three arguments ({yyyy}{mm}{dd}) in the actual date
format
1007  \def\iso@printdate@norsk#1#2#3{%
    ISO or LATEX date format: yyyy\iso@printmonthday@norsk
1008  \ifthenelse{\equal{\iso@dateformat}{iso}\or%
1009      \equal{\iso@dateformat}{TeX}}{%
1010      \ifiso@printyear\iso@yearfour{\number#1}\fi}{%
1011      \iso@printmonthday@norsk{\number#2}{\number#3}}%
    numeric date format: \iso@printmonthday@norsk yyyy
1012  \ifiso@printyear
1013      \ifthenelse{\equal{\iso@dateformat}{numeric}}{\iso@yearfour{\number#1}}{%
        original date format: \iso@printmonthday@norsk~yyyy
1014      \ifthenelse{\equal{\iso@dateformat}{orig}}{\iso@yearfour{\number#1}}{%
            short original date format: \iso@printmonthday@norsk~yyyy
1015          \ifthenelse{\equal{\iso@dateformat}{shortorig}}{%
1016              \iso@twodigitsign\iso@yeartwo{\number#1}}{%
                short date format: \iso@printmonthday@norsk yy
1017          \ifthenelse{\equal{\iso@dateformat}{short}}{%
1018              \iso@yeartwo{\number#1}}{%
1019          }}}}%
1020  \fi
1021 }

\iso@datenorsk This command redefines the \today command to print in the actual date format.
1022  \def\iso@datenorsk{%
1023      \def\today{\iso@printdate@norsk{\year}{\month}{\day}}%}

\iso@daterange@... Define date-range commands for dialects.
1024  \expandafter\def\csname iso@daterange@\CurrentOption\endcsname{%
1025      \iso@daterange@norsk}%

\iso@daterange@norsk This command takes six arguments ({yyyy1}{mm1}{dd1}{yyyy2}{mm2}{dd2})
and prints the corresponding date range in the actual date format.
1026 \def\iso@daterange@norsk#1#2#3#4#5#6{%
    ISO or LATEX date format.
1027  \ifthenelse{\equal{\iso@dateformat}{iso}\or%
1028      \equal{\iso@dateformat}{TeX}}{%

```

Print the start date.

```
1029      \csname iso@printdate@\iso@languagename\endcsname{#1}{#2}{#3}%
1030      \iso@rangesign%
```

If year and month are equal, only print the day of the end date. If only the year is equal, only print month and day of the end date. Otherwise print the whole end date.

```
1031      \ifthenelse{\equal{\number#1}{\number#4}}{%
1032          \ifthenelse{\equal{\number#2}{\number#5}}{\iso@printday{#6}%
1033              }{\iso@printmonthday@norsk{#5}{#6}}}{%
1034      \csname iso@printdate@\iso@languagename\endcsname{#4}{#5}{#6}}{%
```

Numeric, short, or original date format.

If year and month are equal, only print the day of the start date. If only the year is equal, only print month and day of the start date. Otherwise print the whole start date.

```
1035      \ifthenelse{\equal{\number#1}{\number#4}}{%
1036          \ifthenelse{\equal{\number#2}{\number#5}}{%
1037              \ifthenelse{\equal{\iso@dateformat}{orig}\or
1038                  \equal{\iso@dateformat}{shortorig}}{%
1039                      \iso@printday{#3}.}{\iso@printday{#3}}}{%
1040                  }{\iso@printmonthday@norsk{#2}{#3}}}{%
1041      \csname iso@printdate@\iso@languagename\endcsname{#1}{#2}{#3}}{%
```

Print the end date.

```
1042      \iso@rangesign\csname iso@printdate@\iso@languagename\endcsname{%
1043          #4}{#5}{#6}}{%
1044      }{%
1045  }{%
1046 }
```

\iso@rangesign@norsk Sets the word between start and end date in a date range to “ til ”.

```
1047 \expandafter\def\csname iso@rangesign@\CurrentOption\endcsname{`til`}
```

Define the language name that will be the active language for isodate if none of the packages babel.sty, german.sty, and ngerman.sty is loaded and if this is the last language that is used for isodate. If one of the above packages is used this definition will be overridden by the command \languagename that will always return the current used language.

```
1048 \def\iso@languagename{norsk}%
```

Redefine the command \datenorsk that is used by babel to switch to the original Norsk date format to enable the use of different date formats. This has to be done after the preamble in order to ensure to overwrite the babel command.

```
1049 \AtBeginDocument{%
1050     \ifx\undefined\iso@datenorsk\else
1051         \def\datenorsk{\iso@datenorsk}%
1052     \fi
1053 }
1054 </norsk>
```

D.8 Language definition file swedish.idf

This file was provided by Christian Schlauer (christian.schlauer@web.de).

\iso@languageloaded Define the command \iso@languageloaded in order to enable `isodate.sty` to determine if at least one language is loaded.

```
1055 {*swedish}
1056 \let\iso@languageloaded\active
1057 \typeout{Define commands for Swedish date format}
```

\month@swedish Prints the name of today's month in the long form for the original date format.

```
1058 \def\month@swedish{\ifcase\month\or
1059     januari\or februari\or mars\or april\or maj\or juni\or
1060     juli\or augusti\or september\or oktober\or november\or december\fi}
```

\iso@printmonthday@swedish Prints the month and the day given as two arguments ({mm}{dd}) in the current date format.

```
1061 \def\iso@printmonthday@swedish#1#2{%
```

Numeric and short date format: dd/mm/

```
1062 \ifthenelse{\equal{\iso@dateformat}{numeric}\or%
1063     \equal{\iso@dateformat}{short}}{%
1064     \iso@printday{#2}/\iso@printmonth{#1}\ifiso@printyear/\fi}{%
```

ISO date format: -mm-dd

```
1065 \ifthenelse{\equal{\iso@dateformat}{iso}}{%
1066     \ifiso@printyear\iso@isodash\fi\iso@printmonth{#1}%
1067     \iso@isodash\iso@printday{#2}}{%
```

L^AT_EX date format: /mm/dd

```
1068 \ifthenelse{\equal{\iso@dateformat}{TeX}}{%
1069     \ifiso@printyear/\fi\iso@printmonth{#1}/\iso@printday{#2}}{%
```

Original date format: d. mmm

```
1070 \ifthenelse{\equal{\iso@dateformat}{orig}\or%
1071     \equal{\iso@dateformat}{shortorig}}{%
1072     \iso@printday{#2}.~\begingroup
1073     \edef\lmonth{#1}\def\month{\lmonth}%
1074     \month@swedish%
1075     \endgroup
1076     }{}{}}{%
1077 }
```

\iso@printdate@swedish Prints the date given as three arguments ({yyyy}{mm}{dd}) in the actual date format

```
1078 \def\iso@printdate@swedish#1#2#3{%
```

ISO or L^AT_EX date format: yyyy\iso@printmonthday@swedish

```
1079 \ifthenelse{\equal{\iso@dateformat}{iso}\or%
1080     \equal{\iso@dateformat}{TeX}}{%
1081     \ifiso@printyear\iso@yearfour{\number{#1}}\fi}{%
1082     \iso@printmonthday@swedish{\number{#2}}{\number{#3}}}
```

```

    numeric date format: \iso@printmonthday@swedish yyyy
1083      \ifiso@printyear
1084          \ifthenelse{\equal{\iso@dateformat}{numeric}}{\iso@yearfour{\number#1}}{%
    original date format: \iso@printmonthday@swedish~yyyy
1085      \ifthenelse{\equal{\iso@dateformat}{orig}}{\iso@yearfour{\number#1}}{%
        short original date format: \iso@printmonthday@swedish~yy
1086          \ifthenelse{\equal{\iso@dateformat}{shortorig}}{%
            ~\iso@twodigitsign\iso@yeartwo{\number#1}}{%
        short date format: \iso@printmonthday@swedish yy
1088          \ifthenelse{\equal{\iso@dateformat}{short}}{%
            \iso@yeartwo{\number#1}}{%
            }}}{%
1089          \iso@fi
1090      }
1091  }
1092 }
```

\iso@dateswedish This command redefines the `\today` command to print in the actual date format.

```

1093  \def\iso@dateswedish{%
1094      \def\today{\iso@printdate@swedish{\year}{\month}{\day}}}
```

\iso@daterange@... Define date-range commands for dialects.

```

1095  \expandafter\def\csname iso@daterange@\CurrentOption\endcsname{%
1096      \iso@daterange@swedish}%

```

\iso@daterange@swedish This command takes six arguments (`{yyyy1}{mm1}{dd1}{yyyy2}{mm2}{dd2}`) and prints the corresponding date range in the actual date format.

```

1097 \def\iso@daterange@swedish#1#2#3#4#5#6{%
```

ISO or L^AT_EX date format.

```

1098  \ifthenelse{\equal{\iso@dateformat}{iso}\or%
1099      \equal{\iso@dateformat}{TeX}}{%

```

Print the start date.

```

1100  \csname iso@printdate@\iso@languagename\endcsname{%
1101      #1}{#2}{#3}\iso@rangesign%
```

If year and month are equal, only print the day of the end date. If only the year is equal, only print month and day of the end date. Otherwise print the whole end date.

```

1102  \ifthenelse{\equal{\number#1}{\number#4}}{%
1103      \ifthenelse{\equal{\number#2}{\number#5}}{\iso@printday{#6}}{%
1104          \iso@printmonthday@swedish{#5}{#6}}}{%
1105      \csname iso@printdate@\iso@languagename\endcsname{#4}{#5}{#6}}{%
```

Numeric, short, or original date format.

If year and month are equal, only print the day of the start date. If only the year is equal, only print month and day of the start date. Otherwise print the whole start date.

```

1106  \ifthenelse{\equal{\number#1}{\number#4}}{%
```

```

1107      \ifthenelse{\equal{\number#2}{\number#5}}{%
1108          \ifthenelse{\equal{\iso@dateformat}{orig}\or
1109              \equal{\iso@dateformat}{shortorig}}{%
1110                  \iso@printday{#3}.}{\iso@printday{#3}}{%
1111                      }{\iso@printmonthday@swedish{#2}{#3}}{%
1112                          }\csname iso@printdate@\iso@languagename\endcsname{%
1113                              #1}{#2}{#3}}{%
1114      Print the end date.
1115      \iso@rangesign\csname iso@printdate@\iso@languagename\endcsname{%
1116          #4}{#5}{#6}}{%
1117      }{%
1118 }

```

`\iso@rangesign@swedish` Sets the word between start and end date in a date range to “ till ”.

```
1119 \expandafter\def\csname iso@rangesign@\CurrentOption\endcsname{`till`}
```

Define the language name that will be the active language for isodate if none of the packages babel.sty, german.sty, and ngerman.sty is loaded and if this is the last language that is used for isodate. If one of the above packages is used this definition will be overridden by the command `\languagename` that will always return the current used language.

```
1120 \def\iso@languagename{swedish}%
```

Redefine the command `\dateswedish` that is used by babel to switch to the original Swedish date format to enable the use of different date formats. This has to be done after the preamble in order to ensure to overwrite the babel command.

```

1121 \AtBeginDocument{%
1122     \ifx\undefined\iso@dateswedish\else
1123         \def\dateswedish{\iso@dateswedish}%
1124     \fi
1125 }
1126 /swedish
```

Change History

2.00

General: Total reimplementation of the package. The old package has renamed to isodateo. 1

2.01

General: For the case that none of the packages babel, german, and ngerman is loaded there is a new macro `\iso@languagename` that contains the name of the

last loaded language. If one of the packages is loaded it contains the current language. 1

Handle case of not loaded language package babel, german and ngerman 21

2.02

General: Added Norwegian language by Svend Tollak Munkejord 41

Changed the umlauts to normal TeX commands to be able to use German dates without german.sty or babel.sty.	36	\iso@printday: Control the number of digits for the day by a boolean rather than by the command calls	12
2.03		\isodate: Allow change in format for month	14
General: Allow change of spaces for German language	5, 36	\TeXdate: Allow change in format for month	15
Fixed a bug in the French language that caused not to switch to it correctly on startup.	35	2.20	
2.04		General: Add Australian and New Zealand	11, 28
General: Added section for solvable problems.	9	Avoid usage of \filedate and \fileversion	1
2.05		2.21	
General: Added an original format with a two digit year.	2	General: Fix some bugs in date ranges when both month and year are equal (several lan- guage)	1
Execute options at the end of the package instead of at the end of the preamble.	11	Support to print date without year (in all language-dependent commands \iso@printmonthday@... and \iso@printdate@...)	1
2.06		\iso@orange@input@english: Sup- port to print date without year	20
General: Changed range sign for French language, thanks to Fe- lix Pütsch	35	\iso@orange@input@german: Sup- port to print date without year	20
2.07		\iso@orange@input@iso: Support to print date without year	19
General: Add Swedish language .	11	\printyearon: Switch on or off printing of year	16
Add Swedish language by Chris- tian Schlauer	43	2.22	
2.10		General: Makefile adapted for TeXLive	1
General: Add month in Roman nu- merals	11, 12, 14, 15	Path changed according to new CTAN structure	1
Removed section about solvable problems since it was wrong. . .	9	2.23	
\iso@printmonth: Use \twodigitarabic	13	General: Avoid to use the calc package since it causes problems with many other packages	1
\twodigitarabic: Added \twodigitarabic	12	2.24	
2.12		General: Add option frenchb	11
General: Test for babel improved	21	2.25	
Wrong one-digit months avoided	14	\iso@printdate: Changed \year, \month, and \day from macros to counters	16
2.14		Fall-back format for unknown languages	16
General: Control the number of dig- its for the day by a boolean rather than by the command calls	13	Warning for unknown languages	16
Don't print day with two digits when Roman numerals are used for the month	14		
Test on babel, german, and nger- man	21		

\iso@range@input@english:	Fall-back format for unknown languages	20
Warning for unknown languages	20	
\iso@range@input@german:	Fall-back format for unknown languages	20
Warning for unknown languages	20	
\iso@range@input@iso:	Fall-back format for unknown languages	19
Warning for unknown languages	19	
2.26		
General: Add option british	11	
Force year in four digits for long formats	22, 25, 34, 36, 41, 44	
Support different input formats containing slashes	1, 11	
\iso@input@english:	Support different input formats containing slashes	17
\iso@inputformat:	Support different input formats containing slashes	13, 14
\iso@orange@input@english:	Support different input formats containing slashes	20, 21
\iso@yearfour:	Force year in four digits for long formats	13
2.28		
General: Add Italian language by Philip Ratcliffe	39	
Introduce option cleanlook for English date format	5	
\cleanlookdateon:	Introduce option cleanlook for English date format	16
\day@english:	Introduce option cleanlook for English date format	25