A Babel language definition file for French frenchb.dtx v3.5m, 2021/07/20

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1 The French language

The file frenchb. dtx^1 , defines all the language definition macros for the French language.

Customisation for the French language is achieved following the book "Lexique des règles typographiques en usage à l'Imprimerie Nationale" troisième édition (1994), ISBN-2-11-081075-0.

First version released: 1.1 (May 1996) as part of Babel-3.6beta. Version 2.0a was released in February 2007 and version 3.0a in February 2014.

babel-french has been improved using helpful suggestions from many people, mainly from Jacques André, Michel Bovani, Thierry Bouche, Vincent Jalby, Denis Bitouzé, Ulrike Fisher and Marcel Krüger. Thanks to all of them!

LaTeX-2.09 is no longer supported. This new version (3.x) has been designed to be used only with LaTeX2e and Plain formats based on TeX, pdfTeX, LuaTeX or XeTeX engines.

Changes between version 3.0 and v3.5m are listed in subsection 1.4 p. 11.

An extensive documentation in French (file frenchb-doc.pdf) is now included in babel-french.

1.1 Basic interface

In a multilingual document, some typographic rules are language dependent, i.e. spaces before 'high punctuation' (:;!?) in French, others modify the general layout (i.e. layout of lists, footnotes, indentation of first paragraphs of sections) and should apply to the whole document.

The French language can be loaded with Babel by a command like:

\usepackage[german,spanish,french,british]{babel} 2

A variant acadian of french is provided; it is originally identical to french but can be customised independently in terms of patterns, punctuation spacing, captions, etc. Both variants can be used together inside the same document.

babel-french takes account of Babel's main language defined as the last option at Babel's loading. When French is not Babel's main language, babel-french does not alter the general layout of the document (even in parts where French is the current language): the layout of lists, footnotes, indentation of first paragraphs of sections are not customised by babel-french.

When French is loaded as the last option of Babel, babel - french makes the following changes to the global layout, both in French and in all other languages³:

- 1. the first paragraph of each section is indented (LaTeX only);
- 2. the default items in itemize environment are set to '—' instead of '•', and all vertical spacing and glue is deleted; it is possible to change '—' to something else ('–' for instance) using \frenchsetup{} (see section 1.2 p. 5);
- 3. vertical spacing in general LaTeX lists is shortened;
- 4. footnotes are displayed "à la française".

¹The file described in this section has version number v3.5m and was last revised on 2021/07/20.

 $^{^2}$ Always use french as option name for the French language, former aliases frenchb or francais are depreciated; expect them to be removed sooner or later!

 $^{^3}$ For each item, hooks are provided to reset standard LaTeX settings or to emulate the behavior of former versions of babel-french (see command \frenchsetup{}, section 1.2 p. 5).

5. the separator following the table or figure number in captions is printed as ' – ' instead of ': '; for changing this see 1.2.3 p. 9.

Regarding local typography, the command \selectlanguage{french} switches to the French language⁴, with the following effects:

- 1. French hyphenation patterns are made active;
- 'high punctuation' characters (: ; ! ?) automatically add correct spacing ⁵ in French; this is achieved using callbacks in Lua(La)TeX or 'XeTeXinterchar' mechanism in Xe(La)TeX; with TeX'82 and pdf(La)TeX these four characters are made active in the whole document;
- 3. \today prints the date in French;
- 4. the caption names are translated into French (LaTeX only). For customisation of caption names see section 1.2.2 p. 9.
- 5. the space after \dots is removed in French.

Some commands are provided by babel-french to make typesetting easier:

1. French quotation marks can be entered using the commands \og and \fg which work in LaTeX2e and PlainTeX, their appearance depending on what is available to draw them; even if you use LaTeX2e and T1-encoding, you should refrain from entering them as <<~French quotation~>>: \og and \fg provide better horizontal spacing (controlled by \FBguillspace). If French quote characters are available on your keyboard, you can use them, to get proper spacing in LaTeX2e see option og=«, fg=» p. 8.

 \log and \int can be used outside French, they typeset then English quotes " and ".

A new command \frquote{} has been added in version 3.1 to enter French quotations. \frquote{texte} is equivalent to \og texte \fg{} for short quotations. For quotations spreading over more than one paragraph, \frquote will add at the beginning of every paragraph of the quotation either an opening French guillemet («), or a closing one (») or nothing depending on option EveryParGuill=open or =close or =none, see p. 8. Command \NoEveryParQuote is provided to locally suppress unwanted guillemets (typically when lists are embedded in \frquote{}), it is meant to be used inside an environment or a group.

\frquote is recommended to enter embedded quotations "à la française", several variants are provided through options.

with all engines: the inner quotation is surrounded by double quotes
 ("texte") unless option InnerGuillSingle=true, then a) the inner quotation is printed as < texte > and b) if the inner quotation spreads over
more than one paragraph, every paragraph included in the inner quotation
starts with a < or a > or nothing, depending on option EveryParGuill=open
 (default) or =close or =none.

^{4\}selectlanguage{francais} and \selectlanguage{frenchb} are no longer supported.

⁵Well, the automatic insertion may add unwanted spaces in some cases, for correction see AutoSpacePunctuation option and \NoAutoSpacing command p. 7.

 with LuaTeX based engines, it is possible to add a French opening or closing guillemet (« or ») at the beginning of every line of the inner quotation using option EveryLineGuill=open or =close; note that with any of these options, the inner quotation is surrounded by French guillemets (« and ») regardless option InnerGuillSingle; the default is EveryLineGuill=none so that \frquote{} behaves as with non-LuaTeX engines.

A starred variant \frquote* is meant for inner quotations which end together with the outer one: using \frquote* for the inner quotation will print only one closing quote character (the outer one) as recommended by the French 'Imprimerie Nationale'.

- 2. $\frenchdate{<year>}{<month>}{<day>}\ helps typesetting dates in French: <math>\frenchdate{2001}{01}{01}\ will\ print\ 1^{er}\ janvier\ 2001\ in\ a\ box\ without\ any\ linebreak.$
- 3. A command \up is provided to typeset superscripts like M\up{me} (abbreviation for "Madame"), 1\up{er} (for "premier"). Other commands are also provided for ordinals: \ier, \iere, \ieres, \ieres, \ieme, \iemes (3\iemes prints 3^{es}). All these commands take advantage of real superscript letters when they are available in the current font.
- 4. Family names should be typeset in small capitals and never be hyphenated, the macro \bsc (boxed small caps) does this, e.g., L.~\bsc{Lamport} will print the same as L.~\mbox{\textsc{Lamport}}. Note that composed names (such as Dupont-Durant) may now be hyphenated on explicit hyphens, this differs from babel-french v. 1.x.
- 5. Commands \primo, \secundo, \tertio and \quarto print 1°, 2°, 3°, 4°. \FrenchEnumerate{6} prints 6°.
- 6. Abbreviations for "Numéro(s)" and "numéro(s)" (Nº Nºs nº and nºs) are obtained via the commands \No, \Nos, \no, \nos.
- 7. Two commands are provided to typeset the symbol for "degré": \degre prints the raw character and \degres should be used to typeset temperatures (e.g., "20~\degres C" with a non-breaking space), or for alcohols" strengths (e.g., "45\degres" with *no* space in French) or for angles in math mode.
- 8. In math mode the comma has to be surrounded with braces to avoid a spurious space being inserted after it, in decimal numbers for instance (see the T_EXbook p. 134). The command \DecimalMathComma makes the comma behave as an ordinary character when the current language is French (no space added); as a counterpart, if \DecimalMathComma is active, an explicit space has to be added in lists and intervals: \$[0,\ 1]\$, \$(x,\ y)\$. \StandardMathComma switches back to the standard behaviour of the comma in French.
 - The icomma package is an alternative workaround.
- 9. A command \nombre was provided in 1.x versions to easily format numbers in slices of three digits separated either by a comma in English or with a space in French; \nombre is now mapped to \numprint from numprint.sty, which should be loaded after Babel, see numprint.pdf for more information.

10. babel-french has been designed to take advantage of the xspace package if present: adding \usepackage{xspace} in the preamble will force macros like \fg, \ier, \ieme, \dots, ..., to respect the spaces you type after them, for instance typing '1\ier juin' will print '1er juin' (no need for a forced space after 1\ier).

1.2 Customisation

Customisation of babel-french relies on command \frenchsetup{} (formerly called \frenchbsetup{}, the latter name will be kept for ever to ensure backwards compatibility), options are entered using the keyval syntax. The command \frenchsetup{} is to appear in the preamble only (after loading Babel).

1.2.1 \frenchsetup{options}

\frenchsetup{} and \frenchbsetup{} are synonymous; the latter should be preferred as the language name for French in Babel is no longer frenchb but french. \frenchsetup{ShowOptions} prints all available options to the .log file, it is just meant as a remainder of the list of offered options. As usual with keyval syntax, boolean options (as ShowOptions) can be entered as ShowOptions=true or just ShowOptions, the =true part can be omitted.

The other options are listed below. Their default value is shown between braces, sometimes followed be a '*'. The '*' means that the default shown applies when babel-french is loaded as the *last* option of Babel—Babel's *main language*—, and is toggled otherwise.

- StandardLayout=true (false*) forces babel-french not to interfere with the layout: no action on any kind of lists, first paragraphs of sections are not indented (as in English), no action on footnotes; it useless unless French is the main language. This option can be used to avoid conflicts with classes or packages which customise lists or footnotes.
- GlobalLayoutFrench=false (true*) can only be used when French is the main language; setting it to false will emulate what prior versions of babel-french (pre-2.2) did: lists, and first paragraphs of sections will be displayed the standard way in other languages than French, and "à la française" in French (changing the layout inside a document is a bad practice imho). Note that the layout of footnotes is language independent anyway (see below FrenchFootnotes and AutoSpaceFootnotes).
- IndentFirst=false (true*); set this option to false if you do not want babelfrench to force indentation of the first paragraph of sections. When French is
 the main language, this option applies to all languages.
- PartNameFull=false (true); when true, babel-french numbers the title of \part{} commands as "Première partie", "Deuxième partie" and so on. With some classes which change the \part{} command (AMS classes do so), you could get "Première partie 1", "Deuxième partie 2" in the toc; when this occurs, this option should be set to false, part titles will then be printed as "Partie I", "Partie II".

ListItemsAsPar=true (false) setting this option to true is recommended: list items will be displayed as paragraphs with indented labels (in the "Imprimerie Nationale" way) instead of having labels hanging into the left margin. How these two layouts differ is shown below:

Text starting at 'parindent' <= Leftmargin

- first item running on two lines or more...
 - first second level item on two lines...
 - next one...
- second item…

Default French layout

Text starting at 'parindent' <= Leftmargin

- first item running on two lines or more...
 - first second level item on two lines...
 - next one…
 - second item…

With ListItemsAsPar=true

StandardListSpacing=true (false*) ⁶; babel-french customises the vertical spaces in the list environment, this affects all lists, including itemize enumerate, description, but also abstract, quote, quotation, verse, etc. which are based on list. Setting this option to true reverts to the standard settings of the list environment as defined by the document class.

StandardItemizeEnv=true (false*); babel-french redefines the itemize environment to suppress any vertical space between items of itemize lists in French and customises left margins. Setting this option to true reverts to the standard definition of itemize.

StandardEnumerateEnv=true (false*); babel-french redefines enumerate and description environments to make left margins match those of the French version of itemize lists. Setting this option to true reverts to the standard definition of enumerate and description.

StandardItemLabels=true (false*) when set to true this option prevents babelfrench from changing the labels in itemize lists in French.

ItemLabels=\textbullet, \textendash, \ding{43}, (\textendash*); when StandardItemLabels=false (the default), this option enables to choose the label used in French itemize lists for all levels. The next four options do the same but each one for a specific level only. Note that \ding{43} requires loading the pifont package.

ItemLabeli=\textbullet, \textendash, \ding{43} (\textendash*)

ItemLabelii=\textbullet, \textendash, \ding{43} (\textendash*)

ItemLabeliii=\textbullet, \textendash, \ding{43} (\textendash*)

ItemLabeliv=\textbullet, \textendash, \ding{43} (\textendash*)

StandardLists=true (false*) forbids babel-french to customise any kind of list. Try the option StandardLists in case of conflicts with classes or

⁶This option should be used instead of former option ReduceListSpacing (kept for backward compatibility) which could be misleading: with some classes (smfart, smfbook f.i.) you had to set ReduceListSpacing=false to revert to the class settings which actually reduce list's spacings even more than babel-french! StandardListSpacing=true replaces ReduceListSpacing=false.

packages that customise lists too. This option is just a shorthand setting all four options StandardListSpacing=true, StandardItemizeEnv=true, StandardEnumerateEnv=true and StandardItemLabels=true.

- ListOldLayout=true (false); starting with version 2.6a, the layout of lists has changed regarding leftmargins' sizes and default itemize label ('—' instead of '-' up to 2.5k). This option, provided for backward compatibility, displays lists as they were up to version 2.5k.
- FrenchFootnotes=false (true*) reverts to the standard layout of footnotes. By default babel-french typesets leading numbers as '1. ' instead of '1', but has no effect on footnotes numbered with symbols (as in the \thanks command). Two commands \StandardFootnotes and \FrenchFootnotes are available to change the layout of footnotes locally; \StandardFootnotes can help when some footnotes are numbered with letters (inside minipages for instance).
- AutoSpaceFootnotes=false (true*); by default babel-french adds a thin space in the running text before the number or symbol calling the footnote. Making this option false reverts to the standard setting (no space added).
- AutoSpacePunctuation=false (true); in French, the user should input a space before the four characters ':;!?' but as many people forget about it (even among native French writers!), the default behaviour of babel-french is to automatically typeset non-breaking spaces the width of which is either \FBthinspace (defauts to a thin space) before ';' '!' '?' or \FBcolonspace (defauts to \space) before ':'; the defaults follow the French 'Imprimerie Nationale's recommendations. This is convenient in most cases but can lead to addition of spurious spaces in URLs, in MS-DOS paths or in timetables (10:55)—this no longer occurs with LuaTeX—, except if they are typed in \texttt or verbatim mode. When the current font is a monospaced (typewriter) font, no spurious space is added in that case ⁷, so the default behaviour of of babel-french in that area should be fine in most circumstances.

Choosing AutoSpacePunctuation=false will ensure that a proper space is added before ':;!?' if and only if a (normal) space has been typed in. This option gives full control on space insertion before ':;!?'. Those who are unsure about their typing in this area should stick to the default option and use the provided \NoAutoSpacing command inside a group in case an unwanted space is added by babel-french (i.e. {\NoAutoSpacing http://mysite} ⁸ or {\NoAutoSpacing ???} (needed for pdfTeX only).

- ThinColonSpace=true (false) changes the non-breaking space added before the colon ':' to a thin space, so that the same amount of space is added before any of the four 'high punctuation' characters. The default setting is supported by the French 'Imprimerie Nationale'.
- OriginalTypewriter=true (false) prevents any customisation of \ttfamily and \texttt{} in French. This option should only be used to ensure backward compatibility. The current default behaviour is to switch off any addition of space before high punctuation with typewriter fonts (e.g. verbatim).

⁷Unless option OriginalTypewriter is set, \ttfamily is redefined in French to switch off space tuning, see below.

 $^{^8}$ Actually, this is needed only with the XeTeX and pdfTeX engines. LuaTeX no longer inserts any space in strings like http://mysite, C:\Foo, 10:55...

- UnicodeNoBreakSpaces=true (false); (experimental) this option should be set to true only while converting LuaLaTeX files to HTML. It ensures that nonbreaking spaces added by babel-french are inserted in the PDF file as U+A0 or U+202F (thin) instead of penalties and glues. Note that lwarp (v. 0.37 and up) is fully compatible with babel-french for translating PDFLaTeX or XeLaTeX files to HTML.
- og=«, fg=»; when guillemets characters are available on the keyboard (through a compose key for instance), it is nice to use them instead of typing \og and \fg. This option tells babel-french which characters are opening and closing French guillemets (they depend on the input encoding), then you can type either « guillemets » or «guillemets» (with or without spaces) to get properly typeset French quotes. This option works with LuaLaTeX and XeLaTeX; with pdfLaTeX it requires inputenc to be loaded with a proper encoding: 8-bits encoding (latin1, latin9, ansinew, applemac,...) or multi-byte encoding (utf8, utf8x).
- INGuillSpace=true (false) resets the dimensions of spaces after opening French quotes and before closing French quotes to the French 'Imprimerie Nationale' standards (inter-word space). babel-french's default setting produces slightly narrower spaces with less stretchability.
- EveryParGuill=open, close, none (open); sets whether an opening quote («) or a closing one (») or nothing should be printed by \frquote{} at the beginning of every parapraph included in a level 1 (outer) quotation. This option is also considered for level 2 (inner) quotations to decide between < and > when InnerGuillSingle=true (see below).
- EveryLineGuill=open, close, none (none); with LuaTeX based engines only, it is possible to set this option to open [resp. close]; this ensures that a '«' [resp. '»'] followed by a proper space will be inserted at the beginning of every line of embedded (inner) quotations spreading over more than one line (provided that both outer and inner quotations are entered with \frquote{}). When EveryLineGuill=open or =close the inner quotation is always surrounded by « and », the next option is ineffective.
- InnerGuillSingle=true (false); if InnerGuillSingle=false (default), inner
 quotations entered with \frquote{} start with `` and end with ''. If
 InnerGuillSingle=true, < and > are used instead of British double quotes;
 moreover if option EveryParGuill=open (or close) is set, a < (or >) is added
 at the beginning of every parapraph included in the inner quotation.
- ThinSpaceInFrenchNumbers=true (false); if numprint has been loaded with the autolanguage option, while typesetting numbers with the \numprint{} command, \npthousandsep is defined as a non-breaking space (~) ⁹ in French; when set to true, this option redefines \npthousandsep as a thin space (\,).
- SmallCapsFigTabCaptions=false (true*); when set to false, \figurename and \tablename will be printed in French captions as "Figure" and "Table" instead of being printed in small caps (the default). The same result can be achieved by defining \FBfigtabshape as \relax before loading babel-french (in a document class f.i.).

⁹Actually without stretch nor shrink.

- CustomiseFigTabCaptions=false (true*); when false the default separator (colon) is used instead of \CaptionSeparator. Anyway, babel-french tries hard to insert a proper space before it in French and warns if it fails to do so.
- OldFigTabCaptions=true (false) is to be used *only* when figures' and tables' captions must be typeset as with pre 3.0 versions of babel-french (with \CaptionSeparator in French and colon otherwise). Intended for standard LaTeX classes only.
- FrenchSuperscripts=false (true); then \up=\textsuperscript. (option added in version 2.1). Should only be made false to recompile documents written before 2008 without changes: by default \up now relies on \fup designed to produce better looking superscripts.
- LowercaseSuperscripts=false (true); by default babel-french inhibits the uppercasing of superscripts (for instance when they are moved to page headers). Making this option false will disable this behaviour (not recommended).
- SuppressWarning=true (false); can be turned to true if you are bored with babel-french's warnings; use this option as *first* option of \frenchsetup{} to cancel warnings launched by other options.

Options' order – Please remember that options are read in the order they appear in the \frenchsetup{} command. Someone wishing that babel-french leaves the layout of lists and footnotes untouched but caring for indentation of first paragraph of sections should choose

\frenchsetup{StandardLayout,IndentFirst} to get the expected layout. The reverse order \frenchsetup{IndentFirst,StandardLayout} would lead to option IndentFirst being overwritten by StandardLayout.

1.2.2 Caption names

All caption names can easily be customised in French using the simplified syntax introduced by Babel 3.9, for instance \def\frenchproofname{Preuve} or \def\acadianproofname{Preuve} for the acadian dialect. The older syntax \addto\captionsfrench{\def\proofname{Preuve}} still works. Keep in mind that only french can be used to redefine captions, even if Babel's option was entered as frenchb or français.

1.2.3 Figure and table captions

In French, captions in figures and tables should never be printed as 'Figure 1: ' which is the default in standard LaTeX2e classes (a space should *always* preced a colon in French), anyway 'Figure 1 – ' is preferred.

When French is the main language, the default behaviour of babel-french is to change the separator (colon) used in figures' and tables' captions for all languages to \CaptionSeparator which defaults to '-' and can be redefined in the preamble with \renewcommand*{\CaptionSeparator}{...}. This works for the standard LaTeX2e classes, for the memoir koma-script and beamer classes. In case this procedure fails a warning is issued.

When French is not the main language, the colon is preserved for all languages including French but babel-french tries hard to insert a proper space before it and warns if it fails to do so.

Three options are provided to customise figure and table captions:

- CustomiseFigTabCaptions is set to true when French is the main language (hence separator = '-') and to false otherwise (hence separator = ': ' with a proper space before the colon in French if possible); toogle this option if needed;
- the second option, OldFigTabCaptions, can be set to true to print figures'
 and tables' captions as they were with versions pre 3.0 of babel-french (using
 \CaptionSeparator in French and colon in other languages); this option only
 makes sense with the standard LaTeX classes article, report and book;
- the last option, SmallCapsFigTabCaptions, can be set to false to typeset \figurename and \tablename in French as "Figure" and "Table" rather than in small caps (the default).

1.3 Hyphenation checks

Once you have built your format, a good precaution would be to perform some basic tests about hyphenation in French. For LaTeX2e I suggest this:

• run pdfLaTeX on the following file:

```
%% Test file for French hyphenation.
\documentclass[french]{article}
\usepackage[utf8]{inputenc} % utf8, what else?
\usepackage[T1]{fontenc} % mandatory for French
\usepackage{lmodern} % or erewhon, palatino...
\usepackage{babel}
\begin{document}
\showhyphens{signal container \'ev\'enement alg\`ebre}
\showhyphens{signal container événement algèbre}
\end{document}
```

check the hyphenations proposed by T_EX in your log-file; in French you should get with both 7-bit and 8-bit encodings
 si-gnal contai-ner évé-ne-ment al-gèbre.
 Do not care about how accented characters are displayed in the log-file, what matters is the position of the '-' hyphen signs only.

If they are all correct, your installation (probably) works fine, if one (or more) is (are) wrong, ask a local wizard to see what's going wrong and perform the test again (or e-mail me about what happens).

Frequent mismatches:

- you get sig-nal con-tainer, this probably means that the hyphenation patterns you are using are for US-English, not for French;
- you get no hyphen at all in évé-ne-ment, this probably means that you are using CM fonts and the macro \accent to produce accented characters. Using 8-bits fonts with built-in accented characters avoids this kind of mismatch.

1.4 Changes

What's new in version 3.5?

Version 3.5a offers a new option ListItemsAsPar. The default layout of lists is unchanged (for backward compatibility), but users should try this new option which ensures a layout of lists closer to French typographic standards: see f.i. how lists are typeset in the book "Lexique des règles typographiques en usage à l'Imprimerie Nationale".

Version 3.5b fixes a bug due to wrong \everypar's management in \frquote{}; it showed up when \frquote{} immediately followed a sectionning command.

Starting with version 3.5d, a new option StandardListSpacing has been added to supersede ReduceListSpacing.

A new command \NoEveryParQuote has been added in version 3.5e: it is meant to be used inside a group or environment to suppress unwanted guillemets (typically when lists are embedded in \frquote{}).

Version 3.5g fixes a long standing bug affecting LuaTeX: legacy kerning was disabled for Type1 fonts since v3.1g (2015).

Version 3.5j also fixes a long standing bug affecting koma-script, memoir et beamer classes: redefintions of the caption separator (commands \captionformat, \captiondelim, etc.) are now taken into account properly.

Version 3.5k is a cleanup release:

- the translations in French of \figurename and \tablename no longer hold font changing commands (switch to small caps), the font switch has been moved to \fnum@figure and \fnum@table as suggested by Axel Sommerfeldt.
- Package caption can now be loaded whether before or after babel, indifferently.
- \pdfstringdefDisableCommands is no longer used: as suggested by the La-TeX3 team, all commands requiring special care in hyperref's bookmarks are now defined using \textorpdfstring{}{}.

What's new in version 3.4?

Version 3.4a adds a new command \frenchdate (see p. 4) and slightly changes number formatting: \FBthousandsep is now a *kern* instead of a rubber length. \renewcommand*{\FBthousandsep}{~} will switch back to the former (wrong) behaviour.

Both options french and acadian can now be used simultaneously in a document; currently french and acadian are identical, it is up to the user to customise acadian in terms of hyphenation patterns, captionnames, date format or high punctuation and quotes spacing if he/she needs a variant for French.

A new command \FBsetspaces has been added for easy customising of spacing before high punctuation and inside quotes independently for french and acadian, see p. 18.

Version 3.4 requires eTeX and LuaTeX 1.0.4 or newer.

What's new in version 3.3?

In version 3.3d the automatic insertion of non-breaking spaces before the colon character has been improved with engine LuaTeX only: a spurious space is no longer

inserted in strings like http://mysite, C:\Program Files or 10:55. Unfortunately, my attempts to do the same with XeTeX or pdfTeX were unsuccessful.

A few internal changes have been made in version 3.3c to improve the convertion into HTML of non-breaking spaces added by babel-french. Usage of lwarp (v.0.37 and up) is recommended for HTML output, it works fine on files compiled with XeLaTeX or pdfLaTeX formats. A new experimental option UnicodeNoBreakSpaces has been added for LuaLaTeX in version 3.3c, see p. 8.

According to current Babel's standards, every dialect should have it's own .ldf file; starting with version 3.3b, the main support for French is in french.ldf, portmanteau files frenchb.ldf,francais.ldf, acadian.ldf and canadien.ldf have been added. Recommended options are french or acadian, all other are deprecated. BTW, options french and acadian are currently strictly identical.

Release 3.3a is compatible with LuaTeX v. 0.95 (TL2016) and up. Former skips \FBcolonskip, \FBthinskip and \FBguillskip controlling punctuation spacings in LuaTeX have been removed; all three engines now rely on the same commands \FBcolonspace, \FBthinspace and \FBguillspace.

An alias \frenchsetup{} for \frenchbsetup{} has been added in version 3.3a, it might appear more relevant in the future as the language name frenchb should vanish.

Further customisation of the \part{} command is provided via three new commands \frenchpartfirst, \frenchpartsecond and \frenchpartnameord.

What's new in version 3.2?

Version 3.2g changes the default behaviour of \frquote{} with LuaTeX based engines, the output is now the same with all engines; to recover the former behaviour, add option EveryLineGuill=open.

The handling of footnotes has been redesigned for the beamer, memoir and komascript classes. The layout of footnotes "à la française" should be unchanged but footnotes' customisations offered by these classes (i.e. font or color changes) are now available even when option FrenchFootnotes is true.

A long standing bug regarding the xspace package has been fixed: \xspace has been moved up from the internal command \FB@fg to \fg; \frquote{} now works properly when the xspace package is loaded.

Version 3.2b is the first one designed to work with LuaTeX v. 0.95 as included in TeXLive 2016 (LuaTeX's new glue node structure is not compatible with previous versions).

Warning to Lua(La)TeX users: starting with version 3.2b the lua code included in frenchb.lua will *not work* on older installations (TL2015 f.i.), so babel-french reverts to active characters while handling high punctuation with LuaTeX engines older than 0.95! The best way to go is to upgrade to TL2016 or equivalent asap. Xe(La)TeX and pdf(La)TeX users can safely use babel-french v. 3.2b and later on older installations too.

The internals of commands \NoAutoSpacing, \ttfamilyFB, \rmfamilyFB and \sffamilyFB have been completely redesigned in version 3.2c, they behave now consistently with all engines.

What's new in version 3.1?

New command \frquote{} meant to enter French quotations, especially long ones (spreading over several paragraphs) and/or embedded ones. see p. 3 for details.

What's new in version 3.0?

Many deep changes lead me to step babel-french's version number to 3.0a:

- Babel 3.9 is required now to process frenchb.ldf, this change allows for cleaner definitions of dates and captions for the Unicode engines LuaTeX and XeTeX and also provides a simpler syntax for end-users, see section 1.2.2 p.9.
- \frenchsetup{} options management has been completely reworked; two new options added.
- Canadian French didn't work as a normal Babel's dialect, it should now; btw. the French language should now be loaded as french, not as frenchb or francais and preferably as a *global* option of \documentclass. Some tolerance still exists in v3.0, but do not rely on it.
- babel-french no longer loads frenchb.cfg: customisation should definitely be done using \frenchsetup{} options.
- Description lists labels are now indented; try setting \descindentFB=0pt (or \listindentFB=0pt for all lists) in the preamble if you don't like it.
- The last but not least change affects the (recent) LuaTeX-based engines, (this
 means version 0.76 as included in TL2013 and up): active characters are
 no longer used in French for 'high punctuation' ¹⁰. Functionalities and user
 interface are unchanged.

Many thanks to Paul Isambert who provided the basis for the lua code (see his presentation at GUT'2010) and kindly reviewed my first drafts suggesting significant improvements.

Starting with version 3.0c, babel-french no longer customises lists with the beamer class and offers a new option (INGuillSpace) to follow French 'Imprimerie Nationale' recommendations regarding quotes' spacing.

 $^{^{10}}$ The current babel-french version requires LuaTeX v. 1.0.4 as included in TL2017, see above.

2 The code

2.1 Initial setup

The macro \LdfInit takes care of preventing that this file is loaded more than once (even if both options french and acadian are used in the same document), checking the category code of the @ sign, etc.

```
1 <*french>
2 \LdfInit\CurrentOption{FBclean@on@exit}
```

Let's provide a substitute for \PackageError, \PackageWarning and \PackageInfo not defined in Plain:

```
3 \def\fb@error#1#2{%
        \begingroup
          \newlinechar=`\^^J
  5
          \def \ \frac{n}{french.ldf} \
  6
          \ensuremath{\mbox{\mbox{$1^^J}}\
        \endgroup}
  8
  9 \def\fb@warning#1{%
       \begingroup
 10
          \newlinechar=`\^^J
 11
          \def \ \frac{-^J(french.ldf)}{}
 12
 13
          \mbox{message}{\label{lambda}}
 14
       \endgroup}
 15 \def\fb@info#1{%
 16
       \begingroup
          \newlinechar=`\^^J
 17
          \def\\{^^J}%
 18
          \wlog{#1}%
 19
 20
       \endgroup}
Ouit if eTeX is not available.
 21 \let\bbl@tempa\relax
 22 \begingroup\expandafter\expandafter\expandafter\endgroup
 23 \expandafter\ifx\csname eTeXversion\endcsname\relax
      \let\bbl@tempa\endinput
 25
      \fb@error{babel-french requires eTeX.\\
 26
                 Aborting here}
 27
                {Orignal PlainTeX is not supported,\\
 28
                 please use LuaTeX or XeTeX engines.}
 29\fi
 30 \bbl@tempa
Quit if Babel's version is less than 3.9i.
 31 \let\bbl@tempa\relax
 32 \ifdefined\babeltags
 33 \else
 34
       \let\bbl@tempa\endinput
       \ifdefined\PackageError
 35
          \PackageError{french.ldf}
 36
 37
             {babel-french requires babel v.3.16.\MessageBreak
              Aborting here}
 38
             {Please upgrade Babel!}
 39
       \else
 40
```

Make sure that $\ensuremath{\mbox{\mbox{$\m$

```
47 \def\FB@nopatterns{%
     \ifdefined\l@nohyphenation
48
        \adddialect\l@french\l@nohyphenation
49
        \edef\bbl@nulllanguage{\string\language=nohyphenation}%
50
     \else
51
        \edef\bbl@nulllanguage{\string\language=0}%
52
        \adddialect\l@french0
53
     \fi
54
     \@nopatterns{French}}
55
56 \ifdefined\l@french \else \FB@nopatterns \fi
```

Babel's French language can be loaded with option acadian which stands for Canadian French. If no specific hyphenation patterns are available, Canadian French will use the French ones.

```
57\ifdefined\l@acadian
58 \adddialect\l@canadien\l@acadian
59\else
60 \adddialect\l@acadian\l@french
61 \adddialect\l@canadien\l@french
62\fi
```

French uses the standard values of \lefthyphenmin (2) and \righthyphenmin (3); let's provide their values though, as required by Babel.

```
63 \providehyphenmins{french}{\tw@\thr@@}
64 \providehyphenmins{acadian}{\tw@\thr@@}
```

\ifLaTeXe No support is provided for late LaTeX-2.09: issue a warning and exit if LaTeX-2.09 is in use. Plain is still supported.

```
65 \newif\ifLaTeXe
66 \let\bbl@tempa\relax
67 \ifdefined\magnification
     \ifdefined\@compatibilitytrue
69
       \LaTeXetrue
70
71
       \PackageError{french.ldf}
72
          {LaTeX-2.09 format is no longer supported.\MessageBreak
73
           Aborting here}
74
          {Please upgrade to LaTeX2e!}
75
       \let\bbl@tempa\endinput
76
77
78\fi
79 \bbl@tempa
```

\ifFBunicode French hyphenation patterns are now coded in Unicode, see file hyph-fr.tex. XeTeX \ifFBLuaTeX and LuaTeX engines require some extra code to deal with the French "apostrophe". \ifFBXeTeX Let's define three new 'if': \ifFBLuaTeX, \ifFBXeTeX and \ifFBunicode which will be true for XeTeX and LuaTeX engines and false for 8-bits engines.

```
80 \newif\ifFBunicode
81 \newif\ifFBLuaTeX
82 \newif\ifFBLuaTeX
82 \newif\ifFBXeTeX
83 \begingroup\expandafter\expandafter\endgroup
84 \expandafter\ifx\csname luatexversion\endcsname\relax
85 \else
86 \FBunicodetrue \FBLuaTeXtrue
87 \fi
88 \begingroup\expandafter\expandafter\expandafter\endgroup
89 \expandafter\ifx\csname XeTeXrevision\endcsname\relax
90 \else
91 \FBunicodetrue \FBXeTeXtrue
92 \fi
```

\ifFBfrench True when the current language is French or any of its dialects; will be set to true by \extrasfrench and to false by \noextrasfrench. Used in \DecimalMathComma and frenchsetup{og=«, fg=»}.

93 \newif\ifFBfrench

\extrasfrench The macro \extrasfrench will perform all the extra definitions needed for the \noextrasfrench French language. The macro \noextrasfrench is used to cancel the actions of \extrasfrench.

In French, character "apostrophe" (U+27 or U+2019) is a letter in expressions like l'ambulance (French hyphenation patterns provide entries for this kind of words). This means that the \lccode of "apostrophe" has to be non null in French for proper hyphenation of those expressions, and has to be reset to null when exiting French. The following code ensures correct hyphenation of words like d'aventure, l'utopie, with all TeX engines (XeTeX, LuaTeX, pdfTeX) using hyph-fr.tex patterns.

```
94 \def\extrasfrench{%
        \FBfrenchtrue
95
        \babel@savevariable{\lccode"27}%
96
        \lccode"27="27
97
        \ifFBunicode
98
99
          \babel@savevariable{\lccode"2019}%
          \lccode"2019="2019
100
        \fi
101
102 }
103 \def\noextrasfrench{\FBfrenchfalse}
```

One more thing \extrasfrench needs to do is to make sure that "Frenchspacing" is in effect. \noextrasfrench will switch "Frenchspacing" off again if necessary.

```
104 \addto\extrasfrench{\bbl@frenchspacing}
105 \addto\noextrasfrench{\bbl@nonfrenchspacing}
```

2.2 Punctuation

As long as no better solution is available, the 'high punctuation' characters (; !? and :) have to be made \active for an automatic control of the amount of space to be inserted before them. Both XeTeX and LuaTeX provide an alternative to active characters ('XeTeXinterchar' mechanism and LuaTeX's callbacks).

\ifFB@active@punct Three internal flags are needed for the three different techniques used for 'high punctuation' management.

106 \newif\ifFB@active@punct \FB@active@puncttrue

\ifFB@luatex@punct With LuaTeX, starting with version 1.0.4, callbacks are used to get rid of active punctuation. With previous versions, 'high punctuation' characters remain active (see below).

```
107 \newif\ifFB@luatex@punct
108 \ifFBLuaTeX
109
    \ifnum\luatexversion<100
       \ifx\PackageWarning\@undefined
110
         \fb@warning{Please upgrade LuaTeX to version 1.0.4 or above!\\%
111
            babel-french will make high punctuation characters (;:!?)\\%
112
            active with LuaTeX < 1.0.4.}%
113
       \else
114
         \PackageWarning{french.ldf}{Please upgrade LuaTeX
115
            to version 1.0.4 or above!\MessageBreak
116
            babel-french will make high punctuation characters%
117
            \MessageBreak (;:!?) active with LuaTeX < 1.0.4;%
118
119
            \MessageBreak reported}%
120
       \fi
121
    \else
       \FB@luatex@puncttrue\FB@active@punctfalse
122
123
    \fi
124\fi
```

\ifFB@xetex@punct For XeTeX, the availability of \XeTeXinterchartokenstate decides whether the 'high punctuation' characters (; ! ? and :) have to be made \active or not.

> The number of available character classes has been increased from 256 to 4096 in XeTeX v. 0.99994, the class for non-characters is now 4095 instead of 255.

```
125 \newcount\FB@nonchar
126 \newif\ifFB@xetex@punct
127 \ifdefined\XeTeXinterchartokenstate
     \FB@xetex@puncttrue\FB@active@punctfalse
128
129
     \ifdim\the\XeTeXversion\XeTeXrevision pt<0.99994pt
       \FB@nonchar=255 \relax
130
131
     \else
       \FB@nonchar=4095 \relax
    \fi
133
134\fi
```

\FBquillspace These three commands are meant for basic French. Other French dialects can use \FBcolonspace different settings, see below. According to the I.N. specifications, the ':' requires \FBthinspace an inter-word space before it, the other three require just a thin space. We define \FBcolonspace as \space (inter-word space) and \FBthinspace as an half inter-word space with no shrink nor stretch. \FBguillspace is defined btw. as spacing for French quotes is handled together with high punctuation for LuaTeX and XeTeX. \FBquillspace has been fine tuned by Thierry Bouche to 80% of an inter-word space with reduced stretchability. All three are user customisable in the preamble, best using the \FBsetspaces command described below. A penalty will be added before these spaces to prevent line breaking.

```
135 \newcommand*{\FBguillspace}{\hskip .8\fontdimen2\font
                                 plus .3\fontdimen3\font
                                 minus .8\fontdimen4\font \relax}
137
138 \newcommand*{\FBcolonspace}{\space}
139 \newcommand*{\FBthinspace}{\hskip .5\fontdimen2\font \relax}
```

\FBsetspaces This command makes it easy to fine tune \FBguillspace, \FBcolonspace and \FBthinspace in French (defaut) or independently in a French dialect using the optional argument. They are meant for LaTeX2e only and can only be used in the preamble. Four mandatory arguments are expected besides the optional one: the first one is a string either "guill", "colon", or "thin", the last four are decimal numbers specifying width, stretch and shrink relative to fontdimens. For instance \FBsetspaces[acadian]{colon}{0.5}{0}{0} defines \acadianFBcolonspace as a thinspace which will be used for the Acadian dialect only. When used without optional argument or with argument 'french', the same command would tune the basic \FBcolonspace command.

```
140 \ifLaTeXe
   \newcommand*{\FBsetspaces}[5][french]{%
     \def\bbl@tempa{french}\def\bbl@tempb{#1}%
142
     \ifx\bbl@tempa\bbl@tempb \def\bbl@tempb{}\fi
143
     144
                                 plus #4\fontdimen3\font
145
                                minus #5\fontdimen4\font \relax}%
146
```

With option "acadian", fill the corresponding LuaTeX table. All unset values in the "acadian" subtables will be filled 'AtBeginDocument' by \set@glue@table with the value available for "french".

```
\ifFB@luatex@punct
147
148
          \ifx\bbl@tempb\FB@acadian
149
            \directlua{
              FBsp.#2.gl.ac[1] = #3
150
              FBsp.#2.gl.ac[2] = #4
151
              FBsp.#2.gl.ac[3] = #5
152
              if \#3 > 0.6 then
153
                 FBsp.#2.ch.ac = 0xA0
154
              elseif \#3 > 0.2 then
155
                 FBsp.#2.ch.ac = 0x202F
156
157
                 FBsp.#2.ch.ac = 0x200B
158
              end
159
            1%
160
          \fi
161
       \fi
162
     }
163
     \@onlypreamble\FBsetspaces
164
165 \fi
```

Remember that the <code>same \extrasfrench</code> command is executed when switching to French or to a French dialect (Acadian). Acadian and French may share the same patterns (or not), and may use different spacing for high punctuation and/or quotes. Basically, for pdfLaTeX and XeLaTeX, the spacing is set for French, then potentially tuned differently for Acadian. LuaTeX relies on an attribute \FB@dialect to decide what spacing is needed for French or Acadian (see LuaTeX table FBsp). As a rough test on \languagename would be unreliable to set the value of \FB@dialect (see babel.pdf), we use a trick based on \detokenize; another option would be to use the \IfLanguageName command from Oberdiek's package iflang.

```
166 \ifLaTeXe
     \addto\extrasfrench{%
167
       \ifFB@luatex@punct
168
         \edef\bbl@tempa{\detokenize\expandafter{\languagename}}%
169
170
         \edef\bbl@tempb{\detokenize{french}}%
         \ifx\bbl@tempa\bbl@tempb \FB@dialect=0 \relax
171
         \else
                                   \FB@dialect=1 \relax
172
         \fi
173
```

When first entering French, we must set the LuaTeX tables for French (\FB@dialect=0) before any dialect redefines any \FB...space command. Doing this 'AtBeginDocument' would be too late: if French or a French dialect is the main language, \extrasfrench has been executed before!

```
174 \ifdefined\FB@once\else
175 \set@glue@table{colon}%
176 \set@glue@table{thin}%
177 \set@glue@table{guill}%
178 \def\FB@once{}%
179 \fi
180 \fi
```

Any dialect dependent customisation done using \FBsetspaces[dialect] command or alike is now taken into account: the value of \FBthinspace (meant for French, i.e.\FB@dialect=0) is first saved then changed (for Acadian).

```
181
        \ifcsname\languagename FBthinspace\endcsname
182
          \babel@save\FBthinspace
183
          \renewcommand*{\FBthinspace}{%
184
                  \csname\languagename FBthinspace\endcsname}%
        \fi
185
Same for \FBcolonspace:
        \ifcsname\languagename FBcolonspace\endcsname
          \babel@save\FBcolonspace
187
          \renewcommand*{\FBcolonspace}{%
188
                  \csname\languagename FBcolonspace\endcsname}%
189
        \fi
190
And for \FBquillspace:
191
        \ifcsname\languagename FBguillspace\endcsname
          \babel@save\FBquillspace
192
          \renewcommand*{\FBguillspace}{%
193
                  \csname\languagename FBguillspace\endcsname}%
194
        \fi
195
196
     }
197\fi
```

The conditional \ifFB@spacing will be used by pdfTeX and XeTeX engines to switch on or off space tuning before high punctuation and inside French quotes. A matching attribute will be defined later for LuaTeX.

198 \newif\ifFB@spacing \FB@spacingtrue

\FB@spacing@off Two internal commands to switch on and off all space tuning for all six characters \FB@spacing@on ';:!?«»'. They will be triggered by user command \NoAutoSpacing and by font family switching commands \ttfamilyFB \rmfamilyFB and \sffamilyFB. These four commands will now behave the same with any engine (up to version 3.2b, results were engine dependent).

```
199 \newcommand*{\FB@spacing@on}{%
     \ifFB@luatex@punct
200
201
       \FB@spacing=1 \relax
202
     \else
203
       \FB@spacingtrue
204
    \fi}
205 \newcommand*{\FB@spacing@off}{%
     \ifFB@luatex@punct
       \FB@spacing=0 \relax
207
208
    \else
       \FB@spacingfalse
209
     \fi}
210
```

2.2.1 Punctuation with LuaTeX

The following part holds specific code for punctuation with modern LuaTeX engines, i.e. version 1.0.4 (included in TL2017) or newer.

```
211 \ifFB@luatex@punct
212 \ifdefined\newluafunction\else
```

This code is for Plain: load ltluatex.tex if it hasn't been loaded before Babel.

```
\input ltluatex.tex
213
214
     \fi
```

We define five LuaTeX attributes to control spacing in French and/or Acadian for 'high punctuation' and quotes, making sure that \newattribute is defined.

\FB@spacing=0 switches off any space tuning both before high punctuation characters and inside French quotes (i.e. function french_punctuation doesn't alter the node list at all).

\FB@addDPspace=0 switches off automatic insertion of spaces before high punctuation characters (but typed spaces are still turned into non-breaking thin- or word-spaces). \FB@addGUILspace will be set to 1 by option og=«, fg=», thus enabling automatic insertion of proper spaces after '«' and before '»'.

\FB@ucsNBSP triggers the replacement of glues by characters, it is controlled by option UnicodeNoBreakSpaces.

\FB@dialect is 0 for French and 1 for Acadian; its value controls which parts of the glue table (.fr or .ac) are taken into account.

```
\newattribute\FB@spacing
                                    \FB@spacing=1 \relax
215
     \newattribute\FB@addDPspace
                                    \FB@addDPspace=1 \relax
216
    \newattribute\FB@addGUILspace \FB@addGUILspace=0 \relax
217
    \newattribute\FB@ucsNBSP
                                    \FB@ucsNBSP=0 \relax
218
```

```
\newattribute\FB@dialect
                                    \FB@dialect=0 \relax
219
     \ifLaTeXe
220
       \PackageInfo{french.ldf}{No need for active punctuation
221
                    characters\MessageBreak with this version
222
                    of LuaTeX!\MessageBreak reported}
223
224
     \else
       \fb@info{No need for active punctuation characters\\
225
                with this version of LuaTeX!}
226
     \fi
227
```

The next command will be used in the first call of \extrasfrench to convert \FBcolonspace, \FBthinspace and \FBguillspace into a table usable by LuaTeX. This way, any customisation done in the preamble (by \frenchsetup{}, redefinitions or \FBsetspaces commands) are taken into account. Values not explicitly set for Acadian by \FBsetspaces[acadian] commands are copied from the French ones. In case parsing by the Lua function FBget_glue (defined in file frenchb.lua) fails due to unexpected syntax in \FB...space the table remains unchanged and a warning is issued. The matching space characters for option UnicodeNoBreakSpaces are set as word space, thin space or null space according to the width parameter.

```
\newcommand*{\set@glue@table}[1]{%
       \directlua {
229
230
         local s = token.get_meaning("FB#1space")
         local t = FBget_glue(s)
231
232
         if t then
233
            FBsp.#1.gl.fr = t
            if not FBsp.#1.gl.ac[1] then
234
                FBsp.#1.gl.ac = t
235
            end
236
            if FBsp.#1.gl.fr[1] > 0.6 then
237
238
                FBsp.#1.ch.fr = 0xA0
            elseif FBsp.#1.gl.fr[1] > 0.2 then
239
240
                FBsp.#1.ch.fr = 0x202F
241
            else
                FBsp.#1.ch.fr = 0x200B
242
            end
243
            if not FBsp.#1.ch.ac then
244
245
                FBsp.#1.ch.ac = FBsp.#1.ch.fr
            end
246
247
         else
            texio.write_nl('term and log', '')
248
            texio.write_nl('term and log',
249
               '*** french.ldf warning: Unexpected syntax in FB#1space,')
250
251
            texio.write_nl('term and log',
               '*** french.ldf warning: LuaTeX table FBsp unchanged.')
252
            texio.write_nl('term and log',
253
               '*** french.ldf warning: Consider using FBsetspaces to ')
254
            texio.write('term and log', 'customise FB#1space.')
255
256
            texio.write_nl('term and log', '')
257
         end
258
       }%
259
     }
260\fi
261 </french>
```

frenchb.lua This is frenchb.lua. It holds Lua code to deal with 'high punctuation' and quotes.

This code is based on suggestions from Paul Isambert.

First we define two flags to control spacing before French 'high punctuation' (thin space or inter-word space).

Managing spacing after ' α ' (U+00AB) and before ' α ' (U+00BB) can be done by the way; we define two flags, FB_punct_left for characters requiring some space before them and FB_punct_right for ' α ' which must be followed by some space. In case LuaTeX is used to output T1-encoded fonts instead of OpenType fonts, codes 0x13 and 0x14 have to be added for ' α ' and ' α '.

```
269 local FB punct left =
     {[string.byte("!")] = true,
270
271
      [string.byte("?")] = true,
      [string.byte(";")] = true,
      [string.byte(":")] = true,
273
274
      [0x14]
                           = true,
275
      [0xBB]
                           = true}
276 local FB_punct_right =
     {[0x13]
277
                           = true.
      [0xAB]
                           = true}
```

Two more flags will be needed to avoid spurious spaces in strings like !! ?? or (?)

or if the user has typed a non-breaking space U+00A0 or U+202F (thin) before a 'high punctuation' character: no space should be added by babel-french. Same is true inside French quotes.

```
284 [0xA0] = true,

285 [0x202F] = true}

286 local FB_guil_null =

287 {[0xA0] = true,

288 [0x202F] = true}
```

Local definitions for nodes:

```
289 local new node
                      = node.new
290 local copy_node
                      = node.copy
291 local node_id
                      = node.id
292 local HLIST
                      = node_id("hlist")
293 local TEMP
                      = node id("temp")
                      = node id("kern")
294 local KERN
                      = node id("glue")
295 local GLUE
296 local GLYPH
                      = node id("glyph")
297 local PENALTY
                      = node id("penalty")
```

```
298 local nobreak = new_node(PENALTY)
299 nobreak.penalty = 10000
300 local nbspace = new_node(GLYPH)
301 local insert_node_before = node.insert_before
302 local insert_node_after = node.insert_after
303 local remove_node = node.remove
```

Commands \FBthinspace, \FBcolonspace and \FBguillspace are converted 'AtBeginDocument' by the next function FBget_glue into tables of three values which are fractions of \fontdimen2, \fontdimen3 and \fontdimen4. If parsing fails due to unexpected syntax, the function returns *nil* instead of a table.

```
304 function FBget_glue(toks)
    local t = nil
    local f = string.match(toks,
                             "[^%w]hskip%s*([%d%.]*)%s*[^%w]fontdimen 2")
    if f == "" then f = 1 end
308
    if tonumber(f) then
309
        t = \{tonumber(f), 0, 0\}
310
        f = string.match(toks,
                                    "plus%s*([%d%.]*)%s*[^%w]fontdimen 3")
311
        if f == "" then f = 1 end
312
        if tonumber(f) then
313
           t[2] = tonumber(f)
314
           f = string.match(toks, "minus%s*([%d%.]*)%s*[^%w]fontdimen 4")
315
316
           if f == "" then f = 1 end
317
           if tonumber(f) then
318
              t[3] = tonumber(f)
319
           end
320
        end
    elseif string.match(toks, "[^%w]F?B?thinspace") then
321
        t = \{0.5, 0, 0\}
322
    elseif string.match(toks, "[^%w]space") then
323
        t = \{1, 1, 1\}
324
     end
325
326
    return t
327 end
```

Let's initialize the global LuaTeX table FBsp: it holds the characteristics of the glues used in French and Acadian for high punctuation and quotes and the corresponding no-breaking space characters for option UnicodeNoBreakSpaces.

```
328 FBsp = \{\}
329 FBsp.thin = {}
330 FBsp.thin.gl = {}
331 FBsp.thin.gl.fr = \{.5, 0, 0\}; FBsp.thin.gl.ac = \{\}
332 FBsp.thin.ch = \{\}
333 FBsp.thin.ch.fr = 0x202F
                                     ; FBsp.thin.ch.ac = nil
334 FBsp.colon = {}
335 FBsp.colon.ql = {}
336 FBsp.colon.gl.fr = \{1, 1, 1\}; FBsp.colon.gl.ac = \{\}
337 FBsp.colon.ch = {}
338 FBsp.colon.ch.fr = 0xA0
                                    ; FBsp.colon.ch.ac = nil
339 FBsp.quill = {}
340 FBsp.guill.gl = {}
341 FBsp.guill.gl.fr = {.8, .3, .8}; FBsp.guill.gl.ac = {}
342 FBsp.guill.ch = {}
```

```
343 FBsp.guill.ch.fr = 0xA0 ; FBsp.guill.ch.ac = nil
```

The next function converts the glue table returned by function FBget_glue into sp for the current font; beware of null values for fid, see \nullfont in TikZ, and of special fonts like lcircle1.pfb for which font.getfont(fid) does not return a proper font table, in such cases the function returns nil.

```
344 local font table = {}
345 local function new glue scaled (fid, table)
346
     if fid > 0 and table[1] then
347
        local fp = font_table[fid]
        if not fp then
348
           local ft = font.getfont(fid)
349
           if ft then
350
               font table[fid] = ft.parameters
351
               fp = font_table[fid]
352
353
           end
354
        local gl = new node(GLUE,0)
355
        if fp then
356
           node.setglue(gl, table[1]*fp.space,
357
358
                              table[2]*fp.space stretch,
                              table[3]*fp.space_shrink)
359
           return gl
360
        else
361
           return nil
362
        end
363
     else
364
365
        return nil
366
     end
367 end
```

Let's catch LuaTeX attributes \FB@spacing, \FB@addDPspace and \FB@addGUILspace.

```
368 local FBspacing = luatexbase.attributes['FB@spacing']
369 local addDPspace = luatexbase.attributes['FB@addDPspace']
370 local addGUILspace = luatexbase.attributes['FB@addGUILspace']
371 local FBucsNBSP = luatexbase.attributes['FB@ucsNBSP']
372 local FBdialect = luatexbase.attributes['FB@dialect']
373 local has_attribute = node.has_attribute
```

The following function will be added to kerning callback. It catches all nodes of type GLYPH in the list starting at head and checks the language attributes of the current glyph: nothing is done if the current language is not French and only specific punctuation characters (those for which FB_punct_left or FB_punct_right is true) need a special treatment. In French, local variables are defined to hold the properties of the current glyph (item) and of the previous one (prev) or the next one (next). Constants FR_fr (french) and FR_ca (acadian) are defined by command \activate@luatexpunct.

```
374 -- Main function (to be added to the kerning callback). 375 local function french_punctuation (head)
```

Restore the built-in kerning for 8-bits fonts.

```
node.kerning(head)
for item in node.traverse_id(GLYPH, head) do
local lang = item.lang
```

```
379 local char = item.char
```

Skip glyphs not concerned by French kernings.

```
if (lang == FR_fr or lang == FR_ca) and
380
            (FB_punct_left[char] or FB_punct_right[char]) then
381
          local fid = item.font
382
          local attr = item.attr
383
          local FRspacing = has_attribute(item, FBspacing)
384
385
          FRspacing = FRspacing and FRspacing > 0
386
          local FRucsNBSP = has_attribute(item, FBucsNBSP)
387
          FRucsNBSP = FRucsNBSP and FRucsNBSP > 0
388
          local FRdialect = has_attribute(item, FBdialect)
389
          FRdialect = FRdialect and FRdialect > 0
          local SIG = has_attribute(item, addGUILspace)
390
          SIG = SIG and SIG > 0
391
          if FRspacing and fid > 0 then
392
             if FB_punct_left[char] then
393
                local prev = item.prev
394
                local prev_id, prev_subtype, prev_char
395
                if prev then
396
397
                   prev_id = prev.id
                    prev_subtype = prev.subtype
398
                    if prev_id == GLYPH then
399
400
                       prev_char = prev.char
401
                    end
                end
402
```

If the previous node is a glue, check its natural width, only positive glues (actually glues > 1 sp, for tabular 'l' columns) are to be replaced by a non-breaking space.

```
docal is_glue = prev_id == GLUE
docal glue_wd
docal is_glue then
docal glue_wd = prev.width
docal realglue = is_glue and glue_wd > 1
```

For characters for which FB_punct_thin or FB_punct_thick is *true*, the amount of spacing to be typeset before them is controlled by commands \FBthinspace and \FBcolonspace respectively. Two options: if a space has been typed in before (turned into *glue* in the node list), we remove the *glue* and add a nobreak penalty and the required *glue*. Otherwise (auto option), the penalty and the required *glue* are inserted if attribute \FB@addDPspace is set, unless any of these four conditions is met: a) node is ':' and the next one is of type GLYPH (avoids spurious spaces in http://mysite, C:\ or 10:35); b) the previous character is part of type FB_punct_null (avoids spurious spaces in strings like (!) or ??); c) a null glue (actually <= 1 sp for tabulars, possibly < 0) preceeds the punctuation character (for tabulars and listings); d) the punctuation character starts a paragraph or an \hbox{}

When option UnicodeNoBreakSpaces is set to true, a Unicode character U+00A0 or U+202F is inserted instead of penalty and glue.

```
if FB_punct_thin[char] or FB_punct_thick[char] then
local SBDP = has_attribute(item, addDPspace)
local auto = SBDP and SBDP > 0
if FB_punct_thick[char] and auto then
local next = item.next
```

```
next_id = next.id
416
                        end
417
                        if next_id and next_id == GLYPH then
418
                           auto = false
419
420
                        end
                     end
421
422
                     if auto then
                        if (prev_char and FB_punct_null[prev_char]) or
423
                           (is_glue and glue_wd <= 1) or
424
                           (prev_id == HLIST and prev_subtype == 3) or
425
                           (prev_id == TEMP) then
426
                           auto = false
427
                        end
428
                     end
429
                     local fbglue
430
                     local t
431
432
                     if FB_punct_thick[char] then
433
                        if FRdialect then
                           t = FBsp.colon.gl.ac
434
                           nbspace.char = FBsp.colon.ch.ac
435
                        else
436
                           t = FBsp.colon.gl.fr
437
                           nbspace.char = FBsp.colon.ch.fr
438
                        end
439
                     else
440
441
                        if FRdialect then
442
                           t = FBsp.thin.gl.ac
443
                           nbspace.char = FBsp.thin.ch.ac
444
                        else
                           t = FBsp.thin.gl.fr
445
                           nbspace.char = FBsp.thin.ch.fr
446
                        end
447
                     end
448
                     fbglue = new_glue_scaled(fid, t)
449
In case new_glue_scaled fails (returns nil) the node list remains unchanged.
450
                     if (realglue or auto) and fbglue then
451
                        if realglue then
                           head = remove_node(head,prev,true)
452
453
454
                        if (FRucsNBSP) then
455
                           nbspace.font = fid
456
                           nbspace.attr = attr
                           insert_node_before(head,item,copy_node(nbspace))
457
                        else
458
                           nobreak.attr = attr
459
                           fbglue.attr = attr
460
                           insert_node_before(head,item,copy_node(nobreak))
461
                           insert_node_before(head,item,copy_node(fbglue))
462
                        end
463
                     end
```

local next_id

if next then

414

415

Let's consider '»' now (the only remaining glyph of FB_punct_left class): we just have

to remove any *glue* possibly preceding '»', then to insert the nobreak penalty and the proper *glue* (controlled by \FBguillspace). This is done only if French quotes have been 'activated' by options og=«, fg=» in \frenchsetup{} and can be denied locally with \NoAutoSpacing (this is controlled by the SIG flag). If either a) the preceding glyph is member of FB_guil_null, or b) '»' is the first glyph of an \hbox{} or a paragraph, nothing is done, this is controlled by the addgl flag.

```
elseif SIG then
465
                    local addgl = (prev char and
466
467
                                    not FB_guil_null[prev_char])
468
469
                                   (not prev char and
                                    prev id ~= TEMP and
470
                                    not (prev id == HLIST and
471
472
                                         prev_subtype == 3)
473
```

Correction for tabular 'c' (glue 0 plus 1 fil) and 'l' (glue 1sp) columns:

```
if is glue and glue wd <= 1 then
                       addgl = false
475
                    end
476
                    local t = FBsp.guill.gl.fr
477
                    nbspace.char = FBsp.guill.ch.fr
478
                    if FRdialect then
479
                       t = FBsp.quill.ql.ac
480
                       nbspace.char = FBsp.quill.ch.ac
481
482
                    end
                    local fbglue = new glue scaled(fid, t)
483
484
                    if addgl and fbglue then
485
                       if is glue then
                          head = remove_node(head,prev,true)
486
487
                       end
                       if (FRucsNBSP) then
488
                          nbspace.font = fid
489
                          nbspace.attr = attr
490
                          insert node before(head,item,copy node(nbspace))
491
492
                          nobreak.attr = attr
493
                          fbglue.attr = attr
494
                          insert_node_before(head,item,copy_node(nobreak))
495
496
                          insert_node_before(head,item,copy_node(fbglue))
                       end
497
                    end
498
                 end
499
```

Similarly, for '«' (unique member of the FB_punct_right class): unless either a) the next glyph is member of FB_guil_null, or b) '«' is the last glyph of an \hbox{} or a paragraph (then the addgl flag is false, nothing is done), we remove any *glue* possibly following it and insert first the proper *glue* then a nobreak penalty so that finally the penalty preceeds the *glue*.

```
elseif SIG then
local next = item.next
local next_id, next_subtype, next_char, nextnext, kern_wd
if next then
```

A kern0 might hide a glue, so look ahead if next is a kern (this occurs with « \texttt{a} »):

```
elseif next_id == KERN then
508
                       kern_wd = next.kern
509
                       if kern_wd == 0 then
510
                          nextnext = next.next
511
512
                          if nextnext then
513
                             next = nextnext
514
                             next id = nextnext.id
                             next subtype = nextnext.subtype
515
516
                             if next_id == GLYPH then
517
                                 next_char = nextnext.char
                             end
518
                          end
519
                       end
520
                    end
521
                 end
522
                 local is_glue = next_id == GLUE
523
                 if is_glue then
524
525
                    glue wd = next.width
526
                 local addgl = (next_char and not FB_guil_null[next_char])
527
                                or (next and not next_char)
```

Correction for tabular 'c' columns. For 'r' columns, a final '«' character needs to be coded as \mbox{«} for proper spacing (\NoAutoSpacing is another option).

```
529
                 if is_glue and glue_wd == 0 then
                    addgl = false
530
531
                 local fid = item.font
532
                 local t = FBsp.guill.gl.fr
533
534
                 nbspace.char = FBsp.guill.ch.fr
                 if FRdialect then
535
                    t = FBsp.guill.gl.ac
536
                    nbspace.char = FBsp.guill.ch.ac
537
                end
538
                 local fbglue = new_glue_scaled(fid, t)
539
                 if addgl and fbglue then
540
                    if is glue then
541
                       head = remove node(head,next,true)
542
543
                    if (FRucsNBSP) then
544
545
                       nbspace.font = fid
546
                       nbspace.attr = attr
                       insert_node_after(head, item, copy_node(nbspace))
547
                    else
548
                       nobreak.attr = attr
549
550
                       fbglue.attr = attr
551
                       insert_node_after(head, item, copy_node(fbglue))
```

```
insert_node_after(head, item, copy_node(nobreak))
552
                     end
553
                  end
554
              end
555
           end
556
557
        end
558
     end
559
     return head
561 return french_punctuation
562 </lua>
```

\FB@luatex@punct@french As a language tag is part of glyph nodes in LuaTeX, no more switching has to be done in \extrasfrench, setting the dialect attribute has already be done (see above, p. 19). We will just redefine \shorthandoff and \shorthandon in French to issue a warning reminding the user that active characters are no longer used in French with recent LuaTeX engines.

```
563 <* french>
564 \ifFB@luatex@punct
     \newcommand*{\FB@luatex@punct@french}{%
        \babel@save\shorthandon
566
567
        \babel@save\shorthandoff
568
        \def\shorthandoff##1{%}
569
           \ifx\PackageWarning\@undefined
             \fb@warning{\noexpand\shorthandoff{;:!?} is helpless with
570
              LuaTeX,\\ use \noexpand\NoAutoSpacing
571
              *inside a group* instead.}%
572
           \else
573
             \PackageWarning{french.ldf}{\protect\shorthandoff{;:!?}
574
               is helpless with LuaTeX,\MessageBreak
575
               use \protect\NoAutoSpacing \space *inside a group*
576
                instead;\MessageBreak reported}%
577
578
           \fi}%
        \def\shorthandon##1{}%
579
     }
580
     \addto\extrasfrench{\FB@luatex@punct@french}
581
```

The next definition will be used to activate Lua punctuation: it loads frenchb.lua and adds function french_punctuation to the kerning callback; "adding" anything actually disables the built-in kerning for Type1 fonts (which is now added to french punctuation).

```
\def\activate@luatexpunct{%
582
583
       \directlua{%
         FR fr = \the\l@french ; FR ca = \the\l@acadian ;
584
585
         local path = kpse.find_file("frenchb.lua", "lua")
         if path then
586
            local f = dofile(path)
587
            luatexbase.add_to_callback("kerning",
588
                        f, "frenchb.french_punctuation")
589
         else
590
            texio.write nl('')
591
            texio.write_nl('**************************
592
            texio.write nl('Error: frenchb.lua not found.')
593
```

End of specific code for punctuation with LuaTeX engines.

2.2.2 Punctuation with XeTeX

If XeTeXinterchartokenstate is available, we use the "inter char" mechanism to provide correct spacing in French before the four characters; ! ? and :. The basis of the following code was borrowed from the polyglossia package, see gloss-french.ldf. We use the same mechanism for French quotes (« and »), when automatic spacing for quotes is required by options og=« and fg=» in frenchsetup (see section 2.11).

The default value for \XeTeXcharclass is 0 for characters tokens and \FB@nonchar for all other tokens (glues, kerns, math and box boundaries, etc.). These defaults should not be changed otherwise the spacing before the 'high punctuation' characters and inside quotes might not be correct.

We switch \XeTeXinterchartokenstate to 1 and change the \XeTeXcharclass values of; !?: (] « and » when entering French. Special care is taken to restore them to their inital values when leaving French.

The following part holds specific code for punctuation with XeTeX engines.

```
600 \ifFB@xetex@punct
601
      \iflaTeXe
602
       \PackageInfo{french.ldf}{No need for active punctuation
603
                                 characters\MessageBreak with this
604
                                 version of XeTeX!\MessageBreak reported}
605
606
       \fb@info{No need for active punctuation characters\\
607
                with this version of XeTeX!}
      \fi
608
```

Six new character classes are defined for babel-french.

```
    \newXeTeXintercharclass\FB@punctthick
    \newXeTeXintercharclass\FB@punctthin
    \newXeTeXintercharclass\FB@punctnul
    \newXeTeXintercharclass\FB@guilo
    \newXeTeXintercharclass\FB@guilf
    \newXeTeXintercharclass\FB@guilnul
```

As \babel@savevariable doesn't work inside a \bbl@for loop, we define a variant to save the \XeTeXcharclass values which will be modified in French.

```
615 \def\FBsavevariable@loop#1#2{\begingroup
616 \toks@\expandafter{\originalTeX #1}%
617 \edef\x{\endgroup
618 \def\noexpand\originalTeX{\the\toks@ #2=\the#1#2\relax}}%
619 \x}
```

\FB@charlist holds the all list of characters which have their \XeTeXcharclass value modified in French: the first set includes high punctuation, French quotes, opening

delimiters and no-break spaces

| | "21 | "3A | "3B | "3F | "AB | "BB | "28 | "5B | "A0 | "202F |
|---|-----|-----|-----|-----|----------|----------|-----|-----|-----|-------|
| Γ | ! | : | ; | ? | « | » | (| [| | |

the second one holds those which need resetting in French when xeCJK.sty is in use

| "29 | "5D | "7B | "7D | "2C | "2D | "2E | "22 | "25 | "27 | "60 | "2019 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
|) |] | { | } | , | - | | " | % | • | • | , |

```
\def\FB@charlist{"21, "3A, "3B, "3F, "AB, "BB, "28, "5B, "A0, "202F,%
620
                            "29, "5D, "7B, "7D, "2C, "2D, "2E, "22, "25, "27, "60, "2019}
621
```

\FB@xetex@punct@french The following command will be executed when entering French, it first saves the values to be modified, then fits them to our needs. It also redefines \shorthandoff and \shorthandon (locally) to avoid error messages with XeTeX-based engines.

```
\newcommand*{\FB@xetex@punct@french}{%
622
623
        \babel@savevariable{\XeTeXinterchartokenstate}%
624
        \babel@save{\shorthandon}%
625
        \babel@save{\shorthandoff}%
626
        \bbl@for\FB@char\FB@charlist
             {\FBsavevariable@loop{\XeTeXcharclass}{\FB@char}}%
628
        \def\shorthandoff##1{%
          \ifx\PackageWarning\@undefined
629
            \fb@warning{\noexpand\shorthandoff{;:!?} is helpless with
630
              XeTeX,\\ use \noexpand\NoAutoSpacing
631
              *inside a group* instead.}%
632
          \else
633
            \PackageWarning{french.ldf}{\protect\shorthandoff{;:!?}
634
              is helpless with XeTeX,\MessageBreak
635
              use \protect\NoAutoSpacing\space *inside a group*
636
              instead;\MessageBreak reported}%
637
          \fi}%
638
639
         \def\shorthandon##1{}%
```

Let's now set the classes and interactions between classes. When false, the flag \ifFB@spacing switches off any interaction between classes (this flag is controlled by user-level command \NoAutoSpacing; this flag is also set to false when the current font is a typewriter font).

```
640
        \XeTeXinterchartokenstate=1
        \XeTeXcharclass `\: = \FB@punctthick
641
        \XeTeXinterchartoks \z@ \FB@punctthick = {%
642
              \ifFB@spacing\ifhmode\FDP@colonspace\fi\fi}%
643
        \XeTeXinterchartoks \FB@quilf \FB@punctthick = {%
644
              \ifFB@spacing\FDP@colonspace\fi}%
```

Small glues such as "glue 1sp" in tabular 'l' columns or "glue 0 plus 1 fil" in tabular 'c' columns or lstlisting environment should not trigger any extra space; they will still do when AutoSpacePunctuation is true: \XeTeXcharclass=\FB@nonchar isn't specific to glue tokens (this class includes box and math boundaries f.i.), so the \else part cannot be omitted.

```
646
        \XeTeXinterchartoks \FB@nonchar \FB@punctthick = {%
647
               \ifFB@spacing
                 \ifhmode
648
                   \ifdim\lastskip>1sp
649
```

```
\unskip\penalty\@M\FBcolonspace
650
651
                    \else
                      \FDP@colonspace
652
653
                    \fi
                  \fi
654
                \fi}%
655
         \bbl@for\FB@char
656
                  {`\;,`\!,`\?}%
657
                  {\XeTeXcharclass\FB@char=\FB@punctthin}%
658
         \XeTeXinterchartoks \z@ \FB@punctthin = {%
659
                \ifFB@spacing\ifhmode\FDP@thinspace\fi\fi}%
660
         \XeTeXinterchartoks \FB@guilf \FB@punctthin = {%
661
                \ifFB@spacing\FDP@thinspace\fi}%
662
         \XeTeXinterchartoks \FB@nonchar \FB@punctthin = {%
663
664
                \ifFB@spacing
                  \ifhmode
665
                    \ifdim\lastskip>1sp
666
                      \unskip\penalty\@M\FBthinspace
667
668
669
                      \FDP@thinspace
                    \fi
670
                  \fi
671
                \fi}%
672
         \XeTeXinterchartoks \FB@guilo \z@ = {%
673
                \ifFB@spacing\FB@guillspace\fi}%
674
         \XeTeXinterchartoks \FB@guilo \FB@nonchar = {%
675
676
                \ifFB@spacing\FB@guillspace\ignorespaces\fi}%
677
         \XeTeXinterchartoks \z@ \FB@guilf = {%
678
                \ifFB@spacing\FB@guillspace\fi}%
679
         \XeTeXinterchartoks \FB@punctthin \FB@guilf = {%
                \ifFB@spacing\FB@guillspace\fi}%
680
         \XeTeXinterchartoks \FB@nonchar \FB@guilf = {%
681
                \ifFB@spacing\unskip\FB@guillspace\fi}%
682
This will avoid spurious spaces in (!), [?] and with Unicode non-breaking spaces
(U+00A0, U+202F):
683
         \bbl@for\FB@char
                  {`\[,`\(,"A0,"202F}%
684
                  {\XeTeXcharclass\FB@char=\FB@punctnul}%
685
These characters have their class changed by xeCJK.sty, let's reset them to 0 in
French.
686
         \bbl@for\FB@char
687
                   \{`\setminus\{, `\setminus,, `\setminus-, `\setminus\}, `\setminus\}, `\setminus\}, `X, "22, "27, "60, "2019\} \% 
688
                  {\XeTeXcharclass\FB@char=\z@}%
689
       \addto\extrasfrench{\FB@xetex@punct@french}
End of specific code for punctuation with modern XeTeX engines.
691∖fi
```

2.2.3 Punctuation with standard (pdf)TeX

In standard (pdf)TeX we need to make the four characters; !? and : 'active' and provide their definitions. Before doing so, we have to save some definitions involving .

```
692 \newif\ifFB@koma
693 \ifLaTeXe
     \@ifclassloaded{scrartcl}{\FB@komatrue}{}
695
     \@ifclassloaded{scrbook}{\FB@komatrue}{}
     \@ifclassloaded{scrreprt}{\FB@komatrue}{}
696
     \footnote{ifFB@koma\def\FB@std@capsep{:\ }\fi}
697
     \@ifclassloaded{beamer}{\def\FB@std@capsep{:\ }}{}
698
    \@ifclassloaded{memoir}{\def\FB@std@capsep{: }}{}
699
700\fi
701 \ifFB@active@punct
    \initiate@active@char{:}%
     \initiate@active@char{;}%
703
     \initiate@active@char{!}%
704
     \initiate@active@char{?}%
705
```

We first tune the amount of space before; ! ? and :. This should only happen in horizontal mode, hence the test \ifhmode.

In horizontal mode, if a space has been typed before ';' we remove it and put a non-breaking \FBthinspace instead. If no space has been typed, we add \FDP@thinspace which will be defined, up to the user's wishes, as a non-breaking \FBthinspace or as \@empty.

```
\ifFB@spacing
707
          \ifhmode
708
709
            \ifdim\lastskip>1sp
              \unskip\penalty\@M\FBthinspace
710
711
            \else
712
              \FDP@thinspace
713
            \fi
          \fi
714
715
        \fi
Now we can insert a; character.
716
        \string;}
The next three definitions are very similar.
      \declare@shorthand{french}{!}{%
717
718
        \ifFB@spacing
719
          \ifhmode
            \ifdim\lastskip>1sp
720
               \unskip\penalty\@M\FBthinspace
721
            \else
722
              \FDP@thinspace
723
            \fi
724
          \fi
725
726
727
        \string!}
      \declare@shorthand{french}{?}{%
```

\declare@shorthand{french}{;}{%

706

```
\ifFB@spacing
729
          \ifhmode
730
            \ifdim\lastskip>1sp
731
              \unskip\penalty\@M\FBthinspace
732
            \else
733
              \FDP@thinspace
734
735
            \fi
         \fi
736
737
       \fi
738
       \string?}
     \declare@shorthand{french}{:}{%
739
       \ifFB@spacing
740
          \ifhmode
741
            \ifdim\lastskip>1sp
742
743
              \unskip\penalty\@M\FBcolonspace
744
            \else
              \FDP@colonspace
745
            \fi
746
         \fi
747
       \fi
748
749
       \string:}
```

When the active characters appear in an environment where their French behaviour is not wanted they should give an 'expected' result. Therefore we define shorthands at system level as well.

```
750 \declare@shorthand{system}{:}{\string:}
751 \declare@shorthand{system}{!}{\string!}
752 \declare@shorthand{system}{?}{\string?}
753 \declare@shorthand{system}{;}{\string;}
```

We specify that the French group of shorthands should be used when switching to French.

```
754 \addto\extrasfrench{\languageshorthands{french}%
```

These characters are 'turned on' once, later their definition may vary. Don't misunderstand the following code: they keep being active all along the document, even when leaving French.

```
755 \bbl@activate{:}\bbl@activate{;}%
756 \bbl@activate{!}\bbl@activate{?}%
757 }
758 \addto\noextrasfrench{%
759 \bbl@deactivate{:}\bbl@deactivate{;}%
760 \bbl@deactivate{!}\bbl@deactivate{?}%
761 }
762 \fi
```

2.2.4 Punctuation switches common to all engines

A new 'if' \ifFBAutoSpacePunctuation needs to be defined now to control the two possible ways of dealing with 'high punctuation'. it's default value is true, but it can be set to false by \frenchsetup{AutoSpacePunctuation=false} for finer control.

763 \newif\ifFBAutoSpacePunctuation \FBAutoSpacePunctuationtrue

\AutoSpaceBeforeFDP \autospace@beforeFDP and \noautospace@beforeFDP are internal commands. \NoAutoSpaceBeforeFDP \autospace@beforeFDP defines \FDP@thinspace and \FDP@colonspace as nonbreaking spaces and sets LuaTeX attribute \FB@addDPspace to 1 (true), while \noautospace@beforeFDP lets these spaces empty and sets flag \FB@addDPspace to 0 (false). User commands \AutoSpaceBeforeFDP and \NoAutoSpaceBeforeFDP do the same and take care of the flag \ifFBAutoSpacePunctuation in LTFX. Set the default now for Plain (done later for LaTeX).

```
764 \def\autospace@beforeFDP{%
     \ifFB@luatex@punct\FB@addDPspace=1 \fi
     \def\FDP@thinspace{\penalty\@M\FBthinspace}%
766
     \def\FDP@colonspace{\penalty\@M\FBcolonspace}}
768 \def\noautospace@beforeFDP{%
     \ifFB@luatex@punct\FB@addDPspace=0 \fi
769
    \let\FDP@thinspace\@empty
770
    \let\FDP@colonspace\@empty}
771
772 \ifLaTeXe
     \def\AutoSpaceBeforeFDP{\autospace@beforeFDP
773
                              \FBAutoSpacePunctuationtrue}
774
775
     \def\NoAutoSpaceBeforeFDP{\noautospace@beforeFDP
776
                                \FBAutoSpacePunctuationfalse}
777
     \AtEndOfPackage{\AutoSpaceBeforeFDP}
778 \else
     \let\AutoSpaceBeforeFDP\autospace@beforeFDP
     \let\NoAutoSpaceBeforeFDP\noautospace@beforeFDP
    \AutoSpaceBeforeFDP
781
782∖fi
```

\rmfamilyFB In LaTeX2e \ttfamily (and hence \texttt) will be redefined 'AtBeginDocument' as \sffamilyFB \ttfamilyFB so that no space is added before the four; :!? characters, even if \ttfamilyFB AutoSpacePunctuation is true. When AutoSpacePunctuation is false, the eventually typed spaces are left unchanged (not turned into thin spaces, no penalty added). \rmfamily and \sffamily need to be redefined also (\ttfamily is not always used inside a group, its effect can be cancelled by \rmfamily or \sffamily).

> These redefinitions can be canceled if necessary, for instance to recompile older documents, see option OriginalTypewriter below.

> To be consistent with what is done for the ; : ! ? characters, \ttfamilyFB also switches off insertion of spaces inside French guillemets when they are typed in as characters with the 'og'/'fg' options in \frenchsetup{}. This is also a workaround for the weird behaviour of these characters in verbatim mode.

```
783 \ifLaTeXe
    \DeclareRobustCommand\ttfamilyFB{\FB@spacing@off \ttfamilyORI}
784
    \DeclareRobustCommand\rmfamilyFB{\FB@spacing@on \rmfamilyORI}
785
    \DeclareRobustCommand\sffamilyFB{\FB@spacing@on \sffamilyORI}
786
787\fi
```

\NoAutoSpacing The following command disables automatic spacing for high punctuation and French quote characters; it also switches off active punctuation characters (if any). It is engine independent (works for TeX, LuaTeX and XeTeX based engines) and is meant to be used inside a group.

```
788 \DeclareRobustCommand*{\NoAutoSpacing}{%
789
     \FB@spacing@off
     \ifFB@active@punct\shorthandoff{;:!?}\fi
790
791 }
```

2.3 Commands for French quotation marks

\quillemotleft pdfLaTeX users are supposed to use 8-bit output encodings (T1, LY1,...) to typeset \quillemotright French, those who still stick to OT1 should load aequill or a similar package. In both \textquoteddblleft cases the commands \quillemotleft and \quillemotright will print the French \textquoteddblright opening and closing quote characters from the output font. For XeLaTeX and LuaLaTeX, \quillemotleft and \quillemotright are defined by package fontspec (v. 2.5d and up).

> We provide the following definitions for non-LaTeX users only as fall-back, they are welcome to change them for anything better.

```
792 \ifLaTeXe
793 \else
794
     \ifFBunicode
       \def\guillemotleft{{\char"00AB}}
795
       \def\guillemotright{{\char"00BB}}
796
       \def\textquotedblleft{{\char"201C}}
797
       \def\textquotedblright{{\char"201D}}
798
     \else
799
800
       \def\guillemotleft{\leavevmode\raise0.25ex
                           \hbox{$\scriptscriptstyle\ll$}}
801
       \def\guillemotright{\raise0.25ex
802
803
                             \hbox{$\scriptscriptstyle\gg$}}
       \def\textquotedblleft{``}
804
       \def\textquotedblright{''}
805
     ١fi
806
807
     \let\xspace\relax
808\fi
```

\FBgspchar The next step is to provide correct spacing after '«' and before '»'; no line break is \FB@og allowed neither after the opening one, nor before the closing one. French quotes \FB@fg (including spacing) are printed by \FB@og and \FB@fg, the expansion of the top level commands \og and \fg is different in and outside French.

\FB@og and \FB@fg are now designed to work in bookmarks.

```
809 \providecommand\texorpdfstring[2]{#1}
810 \newcommand*{\FB@og}{\texorpdfstring{\@FB@og}{\guillemotleft\space}}
811 \newcommand*{\FB@fg}{\texorpdfstring{\@FB@fg}{\space\guillemotright}}
```

The internal definitions \@FB@og and \@FB@fg need some engine-dependent tuning: for LuaTeX, \FB@spacing is set to 0 locally to prevent the quotes characters from adding space when option og=«, fg=» is set.

```
812 \newcommand*{\FB@guillspace}{\penalty\@M\FBguillspace}
813 \newcommand*{\FBgspchar}{\char"A0\relax}
814 \newif\ifFBucsNBSP
815 \ifFB@luatex@punct
    \DeclareRobustCommand*{\@FB@og}{\leavevmode
             \bgroup\FB@spacing=0 \quillemotleft\egroup
```

```
\ifFBucsNBSP\FBqspchar\else\FB@guillspace\fi}
818
      \label{lem:last-skip-z@<text>} $$ \operatorname{Command}^{\GFB@fg}_{\ifdim}\astskip>\z@\unskip\fi $$ $$
819
               \ifFBucsNBSP\FBgspchar\else\FB@guillspace\fi
820
               \bgroup\FB@spacing=0 \guillemotright\egroup}
821
822 \fi
With XeTeX, \ifFB@spacing is set to false locally for the same reason.
823 \ifFB@xetex@punct
      \DeclareRobustCommand*{\@FB@og}{\leavevmode
824
            \bgroup\FB@spacingfalse\guillemotleft\egroup
825
826
            \FB@guillspace}
827
      \DeclareRobustCommand*{\@FB@fg}{\ifdim\lastskip>\z@\unskip\fi
828
            \FB@guillspace
            \bgroup\FB@spacingfalse\guillemotright\egroup}
830\fi
831 \ifFB@active@punct
      \DeclareRobustCommand*{\@FB@og}{\leavevmode
832
            \guillemotleft
833
            \FB@guillspace}
834
      \DeclareRobustCommand*{\@FB@fg}{\ifdim\lastskip>\z@\unskip\fi
835
            \FB@guillspace
836
837
            \guillemotright}
838\fi
```

\og The user level macros for quotation marks are named \og ("ouvrez guillemets") and \fg \fg ("fermez guillemets"). Another option for typesetting quotes in French is to use the command \frquote (see below). Dummy definition of \og and \fg just to ensure that this commands are not yet defined.

```
839 \newcommand*{\og}{\@empty}
840 \newcommand*{\fg}{\@empty}
```

The definitions of \og and \fg for quotation marks are switched on and off through the \extrasfrench \noextrasfrench mechanism. Outside French, \og and \fg will typeset standard English opening and closing double quotes. We'll try to be smart to users of David Carlisle's xspace package: if this package is loaded there will be no need for \{\} or \ to get a space after \fg, otherwise \xspace will be defined as \relax (done at the end of this file).

```
841 \ iflaTeXe
    \def\bbl@frenchguillemets{%
842
           \renewcommand*{\og}{\FB@og}%
843
844
           \renewcommand*{\fg}{\FB@fg\xspace}}
845
     \renewcommand*{\og}{\textquotedblleft}
846
     \renewcommand*{\fg}{\ifdim\lastskip>\z@\unskip\fi
                           \textquotedblright\xspace}
848 \else
849
     \def\bbl@frenchguillemets{\let\og\FB@og
                                 \left\{ \frac{fg}{FB@fg} \right\}
850
     \def\og{\textquotedblleft}
851
     \label{lem:lastskip} $$\def\fi\\textquotedblright}$
852
853\fi
854 \addto\extrasfrench{\babel@save\og \babel@save\fg
855
                        \bbl@frenchquillemets}
```

\frquote Another way of entering French quotes relies on \frquote{} with supports up to two levels of quotes. Let's define the default quote characters to be used for level one or two of quotes...

```
856 \newcommand*{\ogi}{\FB@og}
  857 \newcommand*{\fgi}{\FB@fg}
   859 \end{*{\end}} {\end} \hbox{\fgi}\else\fgi\fi} 
  860 \newcommand*{\ogii}{\textquotedblleft}
  861 \newcommand*{\fgii}{\textquotedblright}
  862 \newcommand*{\odot{\odii}\else\odii}
  \label{lem:selfgii} $$ \espin $$ \operatorname{$\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ens
and the needed technical stuff to handle options:
  864 \newcount\FBguill@level
  865 \newtoks\FBold@everypar
\FB@addquote@everypar was borrowed from csquotes.sty.
  866 \def\FB@addquote@evervpar{%
               \let\FBnew@everypar\everypar
               \FBold@everypar=\expandafter{\the\everypar}%
  868
               \FBnew@everypar={\the\FBold@everypar\FBeverypar@quote}%
               \let\everypar\FBold@everypar
               \let\FB@addquote@everypar\relax
  871
  872 }
  873 \newif\ifFBcloseguill \FBcloseguilltrue
  874 \newif\ifFBInnerGuillSingle
  875 \def\FBguillopen{\bgroup\NoAutoSpacing\guillemotleft\egroup}
  876 \def\FBquillclose{\bgroup\NoAutoSpacing\guillemotright\egroup}
  877 \let\FBguillnone\empty
  878 \let\FBeveryparquill\FBquillopen
  879 \let\FBeverylinequill\FBquillnone
  880 \let\FBeverypar@quote\relax
  881 \let\FBeveryline@quote\empty
```

The main command \frquote accepts (in LaTeX2e only) a starred version which suppresses the closing quote; it is meant to be used for inner quotations which end together with the outer one, then only one closing guillemet (the outer one) should be printed. \frquote (without star) is now designed to work in bookmarks too.

```
882 \ifLaTeXe
883
     \DeclareRobustCommand\frquote{%
        \texorpdfstring{\@ifstar{\FBcloseguillfalse\fr@quote}%
884
885
                                 {\FBcloseguilltrue \fr@quote}}%
                       {\bm@fr@quote}%
886
887
      \newcommand{\bm@fr@quote}[1]{%
888
        \guillemotleft\space #1\space\guillemotright}
889
890 \else
     \newcommand\frquote[1]{\fr@quote{#1}}
The internal command \fr@quote takes one (long) argument: the quotation text.
893 \newcommand{\fr@quote}[1]{%
894
     \leavevmode
```

\advance\FBquill@level by \@ne

```
896 \ifcase\FBguill@level
897 \or
```

This for level 1 (outer) quotations: set \FBeverypar@quote for level 1 quotations and add it to \everypar using \FB@addquote@everypar, then print the quotation:

```
898 \ifx\FBeveryparguil\FBguillnone
899 \else
900 \def\FBeverypar@quote{\FBeveryparguill\FB@guillspace}%
901 \FB@addquote@everypar
902 \fi
903 \@ogi #1\@fgi
904 \or
```

This for level 2 (inner) quotations: Omega's command \localleftbox included in LuaTeX, is convenient for repeating guillemets at the beginning of every line.

```
\ifx\FBeverylineguill\FBguillopen
         \def\FBeveryline@quote{\FB@addGUILspace=0 \guillemotleft
906
                                 \FB@guillspace}%
907
908
         \localleftbox{\FBeveryline@quote}%
909
         \let\FBeverypar@quote\relax
910
         \@ogi #1\ifFBcloseguill\@fgi\fi
911
       \else
         \ifx\FBeverylineguill\FBguillclose
912
           \def\FBeveryline@quote{\FB@addGUILspace=0 \guillemotright
913
                                   \FB@guillspace}%
914
           \localleftbox{\FBeveryline@quote}%
915
           \let\FBeverypar@quote\relax
916
           \@ogi #1\ifFBcloseguill\@fgi\fi
917
         \else
918
```

otherwise we need to redefine \FBeverypar@quote (and eventually \ogii, \fgii) for level 2 quotations:

```
\let\FBeverypar@quote\relax
919
            \ifFBInnerGuillSingle
920
              \def\ogii{\leavevmode
921
                         \guilsinglleft\FB@guillspace}%
922
              \def\fgii{\ifdim\lastskip>\z@\unskip\fi
923
                         \FB@guillspace\guilsinglright}%
924
              \ifx\FBeveryparguill\FBguillopen
925
                \def\FBeverypar@quote{\guilsinglleft\FB@guillspace}%
926
927
928
              \ifx\FBeveryparguill\FBguillclose
929
                \def\FBeverypar@quote{\guilsinglright\FB@guillspace}%
930
              \fi
931
            \fi
            \@ogii #1\ifFBcloseguill \@fgii \fi
932
          \fi
933
        \fi
934
     \else
935
Warn if \FBguill@level > 2:
        \ifx\PackageWarning\@undefined
936
937
          \fb@warning{\noexpand\frquote\space handles up to
                      two levels.\\ Quotation not printed.}%
938
        \else
939
```

```
\PackageWarning{french.ldf}{%
940
            \protect\frquote\space handles up to two levels.
941
            \MessageBreak Quotation not printed. Reported}
942
       \fi
943
     \fi
944
```

Closing: step down \FBguill@level and clean on exit. Changes made global in case \frquote{} ends inside an environment.

```
\global\advance\FBguill@level by \m@ne
     \ifcase\FBguill@level \global\let\FBeverypar@quote\relax
946
     \or \gdef\FBeverypar@quote{\FBeveryparguill\FB@guillspace}%
947
         \global\let\FBeveryline@guote\empty
948
         \ifx\FBeverylineguill\FBguillnone\else\localleftbox{}\fi
949
     \fi
950
951 }
```

The next command is intended to be used in list environments to suppress quotes which might be added by \FBeverypar@quote after items for instance.

952 \newcommand*{\NoEveryParQuote}{\let\FBeveryparguill\FBguillnone}

2.4 Date in French

\frenchtoday The following code creates a macro \datefrench which in turn defines command \frenchdate \frenchtoday (\today is defined as \frenchtoday in French). The corresponding \datefrench commands for the French dialect, \dateacadian and \acadiantoday are also created btw. This new implementation relies on commands \SetString and \SetStringLoop, therefore requires Babel 3.10 or newer.

> Explicitly defining \BabelLanguages as the list of all French dialects defines both \datefrench and \dateacadian; this is required as french.ldf is read only once even if both language options french and acadian are supplied to Babel. Coding \StartBabelCommands*{french,acadian} would only define \date\CurrentOption, leaving the second language undefined in Babel's sens.

```
953 \def\BabelLanguages{french,acadian}
954 \StartBabelCommands*{\BabelLanguages}{date}
       [unicode, fontenc=TU EU1 EU2, charset=utf8]
955
956
     \SetString\monthiiname{février}
     \SetString\monthviiiname{août}
957
     \SetString\monthxiiname{décembre}
958
959 \StartBabelCommands*{\BabelLanguages}{date}
     \SetStringLoop{month#1name}{%
         janvier, f\'evrier, mars, avril, mai, juin, juillet,%
961
         ao\^ut,septembre,octobre,novembre,d\'ecembre}
962
     \SetString\today{\FB@date{\year}{\month}{\day}}
964 \ FndBabel Commands
```

\frenchdate (which produces an unbreakable string) and \frenchtoday (breakable) both rely on \FB@date, the inner group is needed for \hbox.

```
965 \newcommand*{\FB@date}[3]{%
     {{\mathbb{3}}\in 1=\#3{\text{ifnum1}=\#3}}
966
     \csname month\romannumeral#2name\endcsname
967
    \ifx#1\@empty\else\FBdatespace\number#1\fi}}
969 \newcommand*{\FBdatebox}{\hbox}
```

```
970 \newcommand*{\FBdatespace}{\space}
971 \newcommand*{\frenchdate}{\FBdatebox\FB@date}
972 \newcommand*{\acadiandate}{\FBdatebox\FB@date}
```

2.5 Extra utilities

Let's provide the French user with some extra utilities.

\up \up eases the typesetting of superscripts like '1er'. Up to version 2.0 of babel-\fup french \up was just a shortcut for \textsuperscript in LaTeX2e, but several users complained that \textsuperscript typesets superscripts too high and too big, so we now define \fup as an attempt to produce better looking superscripts. \up is defined as \fup but \frenchsetup{FrenchSuperscripts=false} redefines \up as \textsuperscript for compatibility with previous versions.

When a font has built-in superscripts, the best thing to do is to just use them, otherwise \fup has to simulate superscripts by scaling and raising ordinary letters. Scaling is done using package scalefnt which will be loaded at the end of Babel's loading (babel-french being an option of Babel, it cannot load a package while being read).

```
973 \newif\iffB@poorman
974 \newdimen\FB@Mht
975 \ifLaTeXe
976 \AtEndOfPackage{\RequirePackage{scalefnt}}
```

\FB@up@fake holds the definition of fake superscripts. The scaling ratio is 0.65, raising is computed to put the top of lower case letters (like 'm') just under the top of upper case letters (like 'M'), precisely 12% down. The chosen settings look correct for most fonts, but can be tuned by the end-user if necessary by changing \FBsupR and \FBsupS commands.

\FB@lc is defined as \MakeLowercase to inhibit the uppercasing of superscripts (this may happen in page headers with the standard classes but is wrong); \FB@lc can be redefined to do nothing by option LowercaseSuperscripts=false of \frenchsetup{}.

```
\newcommand*{\FBsupR}{-0.12}
978
     \newcommand*{\FBsupS}{0.65}
979
     \newcommand*{\FB@lc}[1]{\MakeLowercase{#1}}
980
     \DeclareRobustCommand*{\FB@up@fake}[1]{%
981
       \settoheight{\FB@Mht}{M}%
       \addtolength{\FB@Mht}{\FBsupR \FB@Mht}%
982
       \addtolength{\FB@Mht}_{-\FBsupS} ex}
983
       \raisebox{FB@Mht}{\scalefont{FBsupS}{FB@lc{#1}}}% 
984
985
```

The only packages I currently know to take advantage of real superscripts are a) realscripts used in conjunction with XeLaTeX or LuaLaTeX and OpenType fonts having the font feature 'VerticalPosition=Superior' and b) fourier (from version 1.6) when Expert Utopia fonts are available.

\FB@up checks whether the current font is a Type1 'Expert' (or 'Pro') font with real superscripts or not (the code works currently only with fourier-1.6 but could work with any Expert Type1 font with built-in superscripts, see below), and decides to use real or fake superscripts. It works as follows: the content of \f@family (family name of the current font) is split by \FB@split into two pieces, the first three characters

('fut' for Fourier, 'ppl' for Adobe's Palatino, ...) stored in $\FB@firstthree$ and the rest stored in $\FB@suffix$ which is expected to be 'x' or 'j' for expert fonts.

```
986 \def\FB@split#1#2#3#4\@nil{\def\FB@firstthree{#1#2#3}%
987 \def\FB@suffix{#4}}
988 \def\FB@x{x}
989 \def\FB@j{j}
990 \DeclareRobustCommand*{\FB@up}[1]{%
991 \bgroup \FB@poormantrue
992 \expandafter\FB@split\f@family\@nil
```

Then \FB @up looks for a .fd file named tlfut-sup.fd (Fourier) or tlppl-sup.fd (Palatino), etc. supposed to define the subfamily (fut-sup or ppl-sup, etc.) giving access to the built-in superscripts. If the .fd file is not found by \lfFileExists, \FB@up falls back on fake superscripts, otherwise \FB@suffix is checked to decide whether to use fake or real superscripts.

```
993
                                                                            \edef\reserved@a{\lowercase{%
     994
                                                                                                  \noexpand\IfFileExists{\f@encoding\FB@firstthree -sup.fd}}}%
                                                                            \reserved@a
     995
                                                                                           {\footnote{1}} {\fo
     996
     997
                                                                                                  \ifx\FB@suffix\FB@j \FB@poormanfalse\fi
                                                                                                  \ifFB@poorman \FB@up@fake{#1}%
     998
                                                                                                                                                                                                                \FB@up@real{#1}%
     999
                                                                                                  \else
1000
                                                                                                  \fi}%
1001
                                                                                             {FB@up@fake{#1}}%
1002
                                                             \egroup}
```

\FB@up@real just picks up the superscripts from the subfamily (and forces lowercase).

```
\newcommand*{\FB@up@real}[1]{\bgroup
\fontfamily{\FB@firstthree -sup}\selectfont \FB@lc{#1}\egroup}
```

\fup is defined as \FB@up unless \realsuperscript is defined by realscripts.sty. \fup just prints its argument in bookmarks.

```
\DeclareRobustCommand*{\fup}[1]{%
1005
        \texorpdfstring{\ifx\realsuperscript\@undefined
1006
1007
                           \FB@up{#1}%
1008
                         \else
1009
                            \bgroup\let\fakesuperscript\FB@up@fake
                              \realsuperscript{\FB@lc{#1}}\egroup
1010
1011
                         \fi
1012
                         }{#1}%
1013
      }
```

Let's provide a temporary definition for \up (redefined 'AtBeginDocument' as \fup or \textsuperscript according to \frenchsetup{} options).

```
1014 \providecommand*{\up}{\fup}
Poor man's definition of \up for Plain.
1015 \else
1016 \providecommand*{\up}[1]{\leavevmode\raiselex\hbox{\sevenrm #1}}
1017 \fi
```

\ieme Some handy macros for those who don't know how to abbreviate ordinals:

```
\ier 1018 \def\ieme{\up{e}\xspace}
\iere 1019 \def\iemes{\up{es}\xspace}
\iemes
\iers
\ieres
```

```
1020 \def\ier{\up{er}\xspace}
              1021 \def\iers{\up{ers}\xspace}
              1022 \def\iere{\up{re}\xspace}
              1023 \def\ieres{\up{res}\xspace}
  \FBmedkern
\FBthickkern 1024\newcommand*{\FBmedkern}{\kern+.2em}
              1025 \newcommand*{\FBthickkern}{\kern+.3em}
      \primo Some support macros relying on \up for numbering,
    \fprimo) 1026 \newcommand*{\FrenchEnumerate}[1]{%
         \nos <sub>1027</sub>
                     #1\texorpdfstring{\up{o}\FBthickkern}{\textdegree\space}}
         \Nos 1028 \newcommand*{\FrenchPopularEnumerate}[1]{%
                     #1\texorpdfstring{\up{o})\FBthickkern}{\textdegree\space}}
          \No 1029
          \no Typing \primo should result in 'o' (except in bookmarks where \textdegree is used
              instead of o-superior),
              1030 \def\primo{\FrenchEnumerate1}
              1031 \def\secundo{\FrenchEnumerate2}
              1032 \def\tertio{\FrenchEnumerate3}
              1033 \def\quarto{\FrenchEnumerate4}
              while typing \fprimo) gives '0) (except in bookmarks where \textdegree is used
              instead),.
              1034 \def\fprimo) {\FrenchPopularEnumerate1}
              1035 \def\fsecundo) {\FrenchPopularEnumerate2}
              1036 \def\ftertio) {\FrenchPopularEnumerate3}
              1037 \def\fquarto) {\FrenchPopularEnumerate4}
              Let's provide four macros for the common abbreviations of "Numéro". In bookmarks
              ° is used instead of o-superior.
              1038 \DeclareRobustCommand*{\No}{%
                   \texorpdfstring{N\up{o}\FBmedkern}{N\textdegree\space}}
              1040 \DeclareRobustCommand*{\no}{%
                      \texorpdfstring{n\up{o}\FBmedkern}{n\textdegree\space}}
              1041
              1042 \DeclareRobustCommand*{\Nos}{%
                      \texorpdfstring{N\up{os}\FBmedkern}{N\textdegree\space}}
              1044 \DeclareRobustCommand*{\nos}{%
                      \texorpdfstring{n\up{os}\FBmedkern}{n\textdegree\space}}
              1045
         \bsc As family names should be written in small capitals and never be hyphenated, we
              provide a command (its name comes from Boxed Small Caps) to input them easily.
              Note that this command has changed with version 2 of babel-french: a \kern0pt
              is used instead of \hbox because \hbox would break microtype's font expansion;
              as a (positive?) side effect, composed names (such as Dupont-Durand) can now be
              hyphenated on explicit hyphens. Usage: Jean~\bsc{Duchemin}.
              1046 \ifLaTeXe
                    \DeclareRobustCommand*{\bsc}[1]{%
              1047
```

{\textsc{#1}}%

1048 1049

1050 } 1051 \else

\texorpdfstring{\leavevmode\begingroup\kern0pt \scshape #1\endgroup}%

```
1052 \newcommand*{\bsc}[1]{\leavevmode\begingroup\kern0pt #1\endgroup} 1053 \fi
```

Some definitions for special characters. We won't define \tilde as a Text Symbol not to conflict with the macro \tilde for math mode and use the name \tild instead. Note that \boi may not be used in math mode, its name in math mode is \backslash. \degre can be accessed by the command \r{} for ring accent.

```
1054 \ifFBunicode
     \providecommand*{\textbackslash}{{\char"005C}}
1055
     \providecommand*{\textasciicircum}{{\char"005E}}
1056
1057
     \providecommand*{\textasciitilde}{{\char"007E}}
     \newcommand*{\FB@degre}{°}
1059 \else
1060
     \ifLaTeXe
1061
        \newcommand*{\FB@degre}{\r{}}
1062
1063∖fi
1064 \DeclareRobustCommand*{\boi}{\textbackslash}
1065 \DeclareRobustCommand*{\circonflexe}{\textasciicircum}
1066 \DeclareRobustCommand*{\tild}{\textasciitilde}
1067 \DeclareRobustCommand*{\degre}{%
1068 \texorpdfstring{\FB@degre}{\textdegree}}
1069 \newcommand*{\at}{@}
```

\degres We now define a macro \degres for typesetting the abbreviation for 'degrees' (as in 'degrees Celsius'). As the bounding box of the character 'degree' has very different widths in CM/EC and PostScript fonts, we fix the width of the bounding box of \degres to 0.3 em, this lets the symbol 'degree' stick to the preceding (e.g., 45\degres) or following character (e.g., 20~\degres C). \degres works in math-mode (angles). If TeX Companion fonts are available (textcomp.sty), we pick up \textdegree from them instead of emulating 'degrees' from the \r{} accent. Otherwise we advise the user (once only) to use TS1-encoding.

```
1070 \DeclareRobustCommand*{\degres}{\degre}
1071 \ifLaTeXe
1072
     \AtBeginDocument{%
        \@ifpackageloaded{fontspec}{}{%
1073
          \ifdefined\DeclareEncodingSubset
1074
            \DeclareRobustCommand*{\degres}{%
1075
              \texorpdfstring{\hbox{\UseTextSymbol{TS1}{\textdegree}}}%
1076
                              {\textdegree}}%
1077
1078
          \else
1079
            \def\Warning@degree@TSone{\FBWarning
                 {Degrees would look better in TS1-encoding:%
1080
                  \MessageBreak add \protect
1081
1082
                  \usepackage{textcomp} to the preamble.%
1083
                  \MessageBreak Degrees used}}
            \DeclareRobustCommand*{\degres}{%
1084
              \texorpdfstring{\hbox to 0.3em{\hss\degre\hss}%
1085
                               \Warning@degree@TSone
1086
                               \global\let\Warning@degree@TSone\relax}%
1087
1088
                               {\textdegree}}%
1089
          \fi
```

```
}%
1090
1091
1092 \fi
```

2.6 Formatting numbers

\StandardMathComma As mentioned in the T-Xbook p. 134, the comma is of type \mathpunct in math mode: \DecimalMathComma it is automatically followed by a thin space. This is convenient in lists and intervals but unpleasant when the comma is used as a decimal separator in French: it has to be entered as { , }. \DecimalMathComma makes the comma be an ordinary character (of type \mathord) in French (or Acadian) only (no space added); \StandardMathComma switches back to the standard behaviour of the comma.

Unfortunately, \newcount inside \if breaks Plain formats.

```
1093 \newif\ifFB@icomma
1094 \newcount\mc@charclass
1095 \newcount\mc@charfam
1096 \newcount\mc@charslot
1097 \newcount\std@mcc
1098 \newcount\dec@mcc
1099 \ifFBLuaTeX
      \mc@charclass=\Umathcharclass`\,
1100
1101
      \newcommand*{\dec@math@comma}{%
1102
        \mc@charfam=\Umathcharfam`\,
        \mc@charslot=\Umathcharslot`\,
1103
        \Umathcode`\,= 0 \mc@charfam \mc@charslot
1104
     }
1105
1106
     \newcommand*{\std@math@comma}{%
1107
        \mc@charfam=\Umathcharfam`\,
        \mc@charslot=\Umathcharslot`\,
1108
        \Umathcode`\,= \mc@charclass \mc@charfam \mc@charslot
1109
1110
1111 \else
     \std@mcc=\mathcode`\,
1112
1113
     \dec@mcc=\std@mcc
     \@tempcnta=\std@mcc
1114
     \divide\@tempcnta by "1000
1115
1116
     \multiply\@tempcnta by "1000
1117
      \advance\dec@mcc by -\@tempcnta
     \newcommand*{\dec@math@comma}{\mathcode`\,=\dec@mcc}
     \newcommand*{\std@math@comma}{\mathcode`\,=\std@mcc}
1120\fi
\DecimalMathComma operates in French or Acadian independently.
1121 \newcommand*{\DecimalMathComma}{%
1122
     \ifFB@icomma
        \PackageWarning{french.ldf}{%
1123
          icomma package loaded, \protect\DecimalMathComma\MessageBreak
1124
          does nothing. Reported}%
1125
      \else
1126
        \ifFBfrench
1127
          \dec@math@comma
1128
          \expandafter\addto\csname extras\languagename\endcsname
1129
1130
            {\dec@math@comma}%
```

```
1131
       \fi
     \fi
1132
1133 }
1134 \newcommand*{\StandardMathComma}{%
     \ifFB@icomma
1135
        \PackageWarning{french.ldf}{%
1136
          icomma package loaded, \protect\StandardMathComma\MessageBreak
1137
          does nothing. Reported}%
1138
1139
        \std@math@comma
1140
        \expandafter\addto\csname extras\languagename\endcsname
1141
          {\std@math@comma}%
1142
     \fi
1143
1144 }
1145 \ifLaTeXe
     \AtBeginDocument{\@ifpackageloaded{icomma}%
1146
                           {\FB@icommatrue}%
1147
                           {\addto\noextrasfrench{\std@math@comma}%
1148
1149
                            \ifdefined\noextrasacadian
1150
                              \addto\noextrasacadian{\std@math@comma}%
1151
                            \fi
                           }%
1152
     }
1153
1154 \else
1155 \addto\noextrasfrench{\std@math@comma}
1156 \fi
```

\nombre The command \nombre is now borrowed from numprint.sty for LaTeX2e. There is no point to maintain the former tricky code when a package is dedicated to do the same job and more. For Plain based formats, \nombre no longer formats numbers, it prints them as is and issues a warning about the change.

Fake command \nombre for Plain based formats, warning users of babel-french v. 1.x. about the change:

Let's activate LuaTeX punctuation if necessary (LaTeX or Plain) so that \FBsetspaces commands can be used in the preamble, then cleanup and exit without loading any .cfg file in case of Plain formats.

```
1159 \ifFB@luatex@punct
1160 \activate@luatexpunct
1161\fi
1162 \let\FBstop@here\relax
1163 \def\FBclean@on@exit{%
1164
     \let\ifLaTeXe\undefined
     \let\LaTeXetrue\undefined
1165
     1166
     \let\FB@llc\loadlocalcfg
1167
     \let\loadlocalcfg\@gobble}
1168
1169 \ifx\magnification\@undefined
1170 \else
     \def\FBstop@here{%
1171
       \FBclean@on@exit
1172
```

```
1173 \ldf@finish\CurrentOption
1174 \let\loadlocalcfg\FB@llc
1175 \endinput}
1176\fi
1177 \FBstop@here
```

What follows is for LaTeX2e *only*. We redefine \nombre for LaTeX2e. A warning is issued at the first call of \nombre if \numprint is not defined, suggesting what to do. The package numprint is *not* loaded automatically by babel-french because of possible options conflict.

```
1178 \renewcommand*{\nombre}[1]{\Warning@nombre{#1}}
1179 \newcommand*{\Warning@nombre}[1]{%
       \ifdefined\numprint
1180
         \numprint{#1}%
1181
1182
       \else
         \PackageWarning{french.ldf}{%
1183
            \protect\nombre\space now relies on package numprint.sty,%
1184
            \MessageBreak add \protect
1185
            \usepackage[autolanguage]{numprint},\MessageBreak
1186
            see file numprint.pdf for more options.\MessageBreak
1187
1188
            \protect\nombre\space called}%
1189
         \global\let\Warning@nombre\relax
         {#1}%
1190
       \fi
1191
1192 }
```

 $1193 \end{*{FBthousandsep}{\ker \fontdimen2\font \relax}}$

2.7 Caption names

The next step consists in defining the French equivalents for the LaTeX caption names.

\captionsfrench Let's first define \captionsfrench which sets all strings used in the four standard document classes provided with LaTeX.

\figurename and \tablename are printed in small caps in French, unless either SmallCapsFigTabCaptions is set to false or a class or package loaded before babel-french defines \FBfigtabshape as \relax.

1194 \providecommand*{\FBfigtabshape}{\scshape}

New implementation for caption names(requires Babel's 3.10 or newer).

```
1195 \StartBabelCommands*{\BabelLanguages}{captions}
1196
          [unicode, fontenc=TU EU1 EU2, charset=utf8]
       \SetString{\refname}{Références}
1197
1198
       \SetString{\abstractname}{Résumé}
1199
       \SetString{\prefacename}{Préface}
       \SetString{\contentsname}{Table des matières}
1200
       \SetString{\ccname}{Copie à }
1201
       \SetString{\proofname}{Démonstration}
1202
       \SetString{\partfirst}{Première}
1203
1204
       \SetString{\partsecond}{Deuxième}
1205
       \SetStringLoop{ordinal#1}{%
1206
         \frenchpartfirst,\frenchpartsecond,Troisième,Quatrième,%
```

```
Cinquième, Sixième, Septième, Huitième, Neuvième, Dixième, Onzième, %
1207
         Douzième, Treizième, Quatorzième, Quinzième, Seizième, %
1208
         Dix-septième, Dix-huitième, Dix-neuvième, Vingtième}
1209
1210 \StartBabelCommands*{\BabelLanguages}{captions}
       \SetString{\refname}{R\'ef\'erences}
1211
1212
       \SetString{\abstractname}{R\'esum\'e}
1213
       \SetString{\bibname}{Bibliographie}
       \SetString{\prefacename}{Pr\'eface}
1214
       \SetString{\chaptername}{Chapitre}
1215
1216
       \SetString{\appendixname}{Annexe}
       \SetString{\contentsname}{Table des mati\`eres}
1217
       \SetString{\listfigurename}{Table des figures}
1218
       \SetString{\listtablename}{Liste des tableaux}
1219
       \SetString{\indexname}{Index}
1220
1221
       \SetString{\figurename}{Figure}
1222
       \SetString{\tablename}{Table}
1223
       \SetString{\pagename}{page}
       \SetString{\seename}{voir}
1224
       \SetString{\alsoname}{voir aussi}
1225
       \SetString{\enclname}{P.~J.}
1226
1227
       \SetString{\ccname}{Copie \`a }
1228
       \SetString{\headtoname}{}
       \SetString{\proofname}{D\'emonstration}
1229
       \SetString{\glossaryname}{Glossaire}
1230
```

When PartNameFull=true (default), \part{} is printed in French as "Première partie" instead of "Partie I". As logic is prohibited inside \SetString, let's hide the test about PartNameFull in \FB@partname.

```
1231
       \SetString{\partfirst}{Premi\`ere}
1232
       \SetString{\partsecond}{Deuxi\`eme}
1233
       \SetString{\partnameord}{partie}
1234
       \SetStringLoop{ordinal#1}{%
1235
         \partfirst,\partsecond,Troisi\`eme,Quatri\`eme, Cinqui\`eme,%
1236
         Sixi\`eme,Septi\`eme,Huiti\`eme,Neuvi\`eme,Dixi\`eme,%
1237
         Onzi\`eme,Douzi\`eme,Treizi\`eme,Quatorzi\`eme,Quinzi\`eme,%
1238
         Seizi\`eme,Dix-septi\`eme,Dix-huiti\`eme,Dix-neuvi\`eme,%
1239
         Vingti\`eme}
       \AfterBabelCommands{%
1240
         \DeclareRobustCommand*{\FB@emptypart}{\def\thepart{\unskip}}%
1241
         \DeclareRobustCommand*{\FB@partname}{%
1242
1243
            \ifFBPartNameFull
              \csname ordinal\romannumeral\value{part}\endcsname\space
1244
              \partnameord\FB@emptypart
1245
1246
            \else
1247
              Partie%
            \fi}%
1248
1240
       \SetString{\partname}{\FB@partname}
1250
1251 \EndBabelCommands
```

\figurename and \tablename no longer include font commmands; to print them in small caps in French (the default), we now customise \fnum@figure and \fnum@table when available (not in beamer.cls f.i.).

1252 \AtBeginDocument{%

```
\ifx\FBfigtabshape\relax
1253
1254
     \else
      \ifdefined\fnum@figure
1255
        \let\fnum@figureORI\fnum@figure
1256
        \renewcommand{\fnum@figure}{{\ifFBfrench\FBfigtabshape\fi
1257
                                   \fnum@figureORI}}%
1258
1259
       \ifdefined\fnum@table
1260
        \let\fnum@tableORI\fnum@table
1261
        1262
                                  \fnum@tableORI}}%
1263
      \fi
1264
     \fi
1265
1266 }
```

2.8 Figure and table captions

\FBWarning \FBWarning is an alias of \PackageWarning{french.ldf} which can be made silent by option SuppressWarning.

 $\label{lem:ldf} $$1267 \rightarrow \frac{\mathbb{FBWarning}[1]}{\operatorname{PackageWarning}french.ldf}{\#1}$$

\CaptionSeparator Let's consider now captions in figures and tables. In French, captions in figures and tables should never be printed as 'Figure 1: ' which is the default in standard LaTeX2e classes (a space should preceed the colon in French). This flaw may occur with pdfLaTeX as ':' is made active too late. With LuaLaTeX and XeLaTeX, this glitch doesn't occur, you get 'Figure 1:' which is correct in French. With pdfLaTeX babel-french provides the following workaround.

> The standard definition of \@makecaption (e.g., the one provided in article.cls, report.cls, book.cls which is frozen for LaTeX2e according to Frank Mittelbach), is saved in \STD@makecaption. 'AtBeginDocument' we compare it to its current definition (some classes like memoir, koma-script classes, AMS classes, ua-thesis.cls... change it). If they are identical, babel-french just adds a hook called \FBCaption@Separator to \@makecaption; \FBCaption@Separator defaults to ': ' as in the standard \@makecaption and will be changed to ':' in French 'AtBeginDocument'; it can be also set to \CaptionSeparator (' - ') using CustomiseFigTabCaptions.

> While saving the standard definition of \@makecaption we have to make sure that characters ':' and '>' have \catcode 12 (babel-french makes ':' active and spanish.ldf makes '>' active).

```
1268 \bgroup
      \catcode`:=12 \catcode`>=12 \relax
1269
      \long\gdef\STD@makecaption#1#2{%
1270
        \vskip\abovecaptionskip
1271
        \sbox\@tempboxa{#1: #2}%
1272
1273
        \ifdim \wd\@tempboxa >\hsize
          #1: #2\par
1274
        \else
1275
          \global \@minipagefalse
1276
          \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
1277
1278
        \vskip\belowcaptionskip}
1279
1280 \egroup
```

No warning is issued for SMF and AMS classes as their layout of captions is compatible with French typographic standards.

With memoir and koma-script classes, babel-french customises \captiondelim or \captionformat in French (unless option CustomiseFigTabCaptions is set to false) and issues no warning.

When \@makecaption has been changed by another class or package, a warning is printed in the .log file.

Enable the standard warning only if high punctuation is active.

```
1281 \newif\if@FBwarning@capsep
1282 \ifFB@active@punct\@FBwarning@capseptrue\fi
1283 \newcommand*{\CaptionSeparator}{\space\textendash\space}
1284 \def\FBCaption@Separator{: }
1285 \long\def\FB@makecaption#1#2{%
     \vskip\abovecaptionskip
     \sbox\@tempboxa{#1\FBCaption@Separator #2}%
1287
     \ifdim \wd\@tempboxa >\hsize
1288
        #1\FBCaption@Separator #2\par
1289
     \else
1290
1291
        \global \@minipagefalse
1292
        \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
1293
1294
     \vskip\belowcaptionskip}
Disable the standard warning with AMS and SMF classes.
1295 \@ifclassloaded{amsart}{\@FBwarning@capsepfalse}{}
1296 \@ifclassloaded{amsbook}{\@FBwarning@capsepfalse}{}
1297 \@ifclassloaded{amsdtx}{\@FBwarning@capsepfalse}{}
1298 \@ifclassloaded{amsldoc}{\@FBwarning@capsepfalse}{}
1299 \@ifclassloaded{amproc}{\@FBwarning@capsepfalse}{}
1300 \@ifclassloaded{smfart}{\@FBwarning@capsepfalse}{}
1301 \@ifclassloaded{smfbook}{\@FBwarning@capsepfalse}{}
Disable the standard warning for some classes that do not use ':' as caption separator.
1302 \@ifclassloaded{IEEEconf}{\@FBwarning@capsepfalse}{}
```

```
1303 \@ifclassloaded{IEEEtran}{\@FBwarning@capsepfalse}{}
1304 \@ifclassloaded{revtex4-2}{\@FBwarning@capsepfalse}{}
1305 \@ifclassloaded{svjour3}{\@FBwarning@capsepfalse}{}
```

No warning with memoir or koma-script classes: they change \@makecaption but we will manage to customise them in French later on (see below after executing \FBprocess@options)

```
{\tt 1306 \endown} {\tt GFBwarning@capsepfalse} \{\}
1307 \ifFB@koma \@FBwarning@capsepfalse \fi
```

No warning with the beamer class which defines \beamer@makecaption (customised below) instead of \@makecaption. No warning either if \@makecaption is undefined (i.e. letter).

```
1308 \@ifclassloaded{beamer}{\@FBwarning@capsepfalse}{}
1309 \ifdefined\@makecaption\else\@FBwarning@capsepfalse\fi
```

First check the definition of \@makecaption, change it or issue a warning in case it has been changed by a class or package not (yet) compatible with babel-french; then change the definition of \FBCaption@Separator, taking care that the colon is typeset correctly in French (not 'Figure 1: légende').

```
1310 \AtBeginDocument{%
     \ifx\@makecaption\STD@makecaption
1311
        \global\let\@makecaption\FB@makecaption
1312
```

If OldFigTabCaptions=true, do not overwrite \FBCaption@Separator (already saved as ': ' for other languages and set to \CaptionSeparator by \extrasfrench when French is the main language); otherwise locally force \autospace@beforeFDP in case AutoSpacePunctuation=false.

```
\ifFB0ldFigTabCaptions
1314
        \else
          \def\FBCaption@Separator{{\autospace@beforeFDP : }}%
1315
          \ifFBCustomiseFigTabCaptions
1316
1317
            \ifFB@mainlanguage@FR
              \def\FBCaption@Separator{\CaptionSeparator}%
1318
            \fi
1319
          \fi
1320
        \fi
1321
1322
        \@FBwarning@capsepfalse
1323
     \fi
No Warning if caption.sty or caption-light.sty has been loaded.
        \@ifpackageloaded{caption}{\@FBwarning@capsepfalse}{}%
1324
        \@ifpackageloaded{caption-light}{\@FBwarning@capsepfalse}{}%
1325
Final warning if relevant:
     \if@FBwarning@capsep
1326
1327
         \FBWarning
           {Figures' and tables' captions might look like\MessageBreak
1328
1329
             Figure 1: ' in French instead of `Figure 1 : '.\MessageBreak
1330
            If this happens, to fix this issue\MessageBreak
1331
            switch to LuaLaTeX or XeLaTeX or\MessageBreak
1332
            try to add \protect\usepackage{caption} or\MessageBreak
1333
            ... leave it as it is; reported}%
1334
1335
     \let\FB@makecaption\relax
1336
     \let\STD@makecaption\relax
1337 }
```

2.9 Dots...

\FBtextellipsis Unless a ready-made character is available in the current font, LaTeX's default definition of \textellipsis includes a \kern at the end; this space is not wanted in some cases (before a closing brace for instance) and \kern breaks hyphenation of the next word. We define \FBtextellipsis for French (in LaTeX only) the same way but without the last \kern.

> LY1 has a ready made character for \textellipsis, it should be used in French. The same is true for Unicode fonts in use with XeTeX and LuaTeX.

```
1338 \ifFBunicode
1339 \else
     \DeclareTextSymbol{\FBtextellipsis}{LY1}{133}
1340
     \DeclareTextCommand{\FBtextellipsis}{PU}{\9040\046}
1341
     \DeclareTextCommand{\FBtextellipsis}{PD1}{\203}
1342
     \DeclareTextCommandDefault{\FBtextellipsis}{%
```

```
1344 .\kern\fontdimen3\font.\kern\fontdimen3\font.\xspace}%
1345 \def\bbl@frenchdots{\babel@save\textellipsis
1346 \let\textellipsis\FBtextellipsis}
1347 \addto\extrasfrench{\bbl@frenchdots}
1348 \fi
```

2.10 More checks about packages' loading order

Like packages captions and floatrow (see section 2.8), package listings should be loaded after babel-french due to active characters issues (pdfLaTeX only).

Package natbib should be loaded before babel-french due to active characters issues (pdfLaTeX only).

```
1356 \newif\if@FBwarning@natbib
1357 \ifFB@active@punct
1358 \@ifpackageloaded{natbib}{}{\@FBwarning@natbibtrue}
1359\fi
1360 \AtBeginDocument{%
       \if@FBwarning@natbib
1361
         \@ifpackageloaded{natbib}{}{\@FBwarning@natbibfalse}%
1362
1363
1364
       \if@FBwarning@natbib
         \FBWarning{Please load the "natbib" package\MessageBreak
1365
                    BEFORE babel/french; reported}%
1366
1367
       \fi
1368 }
```

Package beamerarticle should be loaded before babel-french to avoid list's conflicts, see p. 54.

```
1369 \newif\if@FBwarning@beamerarticle
1370 \@ifpackageloaded{beamerarticle}{}{\@FBwarning@beamerarticletrue}
1371 \AtBeginDocument{%
1372
       \if@FBwarning@beamerarticle
1373
         \@ifpackageloaded{beamerarticle}{}%
1374
                                          {\@FBwarning@beamerarticlefalse}%
1375
1376
       \if@FBwarning@beamerarticle
         \FBWarning{Please load the "beamerarticle" package\MessageBreak
1377
1378
                    BEFORE babel/french; reported}%
1379
       \fi
1380 }
```

2.11 Setup options: keyval stuff

All setup options are handled by command \frenchsetup{} using the keyval syntax. A list of flags is defined and set to a default value which will possibly be changed 'AtEnd-

OfPackage' if French is the main language. After this, \frenchsetup{} eventually modifies the preset values of these flags.

Option processing can occur either in \frenchsetup{}, but only for options explicitly set by \frenchsetup{}, or 'AtBeginDocument'; any option affecting \extrasfrench{} must be processed by \frenchsetup{}: when French is the main language, \extrasfrench{} is executed by Babel when it switches the main language and this occurs before reading the stuff postponed by babel - french 'AtBeginDocument'. Reexecuting \extrasfrench{} is an option which was used up to v2.6h, it has been dropped in v3.0a because of its side-effects (f.i. \babel@save and \babel@savevariable did not work for French).

\frenchsetup Let's now define this command which reads and sets the options to be processed either immediately (i.e. just after setting the key) or later (at \begin{document}) by \FBprocess@options. \frenchsetup{} can only be called in the preamble.

```
1381 \newcommand*{\frenchsetup}[1]{%
1382 \setkeys{FB}{#1}%
1383 }%
1384 \@onlypreamble\frenchsetup
```

Keep the former name \frenchbsetup working for compatibility.

```
1385 \let\frenchbsetup\frenchsetup
1386 \@onlypreamble\frenchbsetup
```

We define a collection of conditionals with their defaults (true or false).

```
1387 \newif\ifFBShowOptions
1388 \newif\ifFBStandardLayout
                                          \FBStandardLayouttrue
1389 \newif\ifFBGlobalLayoutFrench
                                          \FBGlobalLayoutFrenchtrue
1390 \newif\ifFBReduceListSpacing
1391 \newif\ifFBStandardListSpacing
                                          \FBStandardListSpacingtrue
1392 \newif\ifFBListOldLayout
1393 \newif\ifFBListItemsAsPar
1394 \newif\ifFBCompactItemize
{\tt 1395} \verb| newif \verb| ifFBS tandard Itemize Env|\\
                                          \FBStandardItemizeEnvtrue
1396 \newif\ifFBStandardEnumerateEnv
                                          \FBStandardEnumerateEnvtrue
1397 \newif\ifFBStandardItemLabels
                                          \FBStandardItemLabelstrue
1398 \newif\ifFBStandardLists
                                          \FBStandardListstrue
1399 \newif\ifFBIndentFirst
1400 \newif\ifFBFrenchFootnotes
1401 \newif\ifFBAutoSpaceFootnotes
1402 \newif\ifFBOriginalTypewriter
1403 \newif\ifFBThinColonSpace
1404 \newif\ifFBThinSpaceInFrenchNumbers
                                          \FBFrenchSuperscriptstrue
1405 \newif\ifFBFrenchSuperscripts
1406 \newif\ifFBLowercaseSuperscripts
                                          \FBLowercaseSuperscriptstrue
1407 \newif\ifFBPartNameFull
                                          \FBPartNameFulltrue
1408 \newif\ifFBCustomiseFigTabCaptions
1409 \newif\ifFBOldFigTabCaptions
1410 \newif\ifFBSmallCapsFigTabCaptions \FBSmallCapsFigTabCaptionstrue
1411 \newif\ifFBSuppressWarning
1412 \newif\ifFBINGuillSpace
```

The defaults values of these flags have been choosen so that babel - french does not change anything regarding the global layout. \bbl@main@language, set by the last option of Babel, controls the global layout of the document. 'AtEndOfPackage' we check the main language in \bbl@main@language; if it is French (or a French dialect) the values of some flags have to be changed to ensure a French looking layout for the whole document (even in parts written in languages other than French); the end-user will then be able to customise the values of all these flags with \frenchsetup{}. The following patch is for koma-script classes: the \partformat command, defined as \partname~\thepart\autodot, is incompatible with our redefinition of \partname.

```
1413 \ifFB@koma
      \ifdefined\partformat
1414
        \def\FB@partformat@fix{%
1415
1416
                \ifFBPartNameFull
                 \babel@save\partformat
1417
                  \renewcommand*{\partformat}{\partname}%
1418
                \fi}
1419
        \addto\extrasfrench{\FB@partformat@fix}%
1420
     \fi
1421
1422 \fi
```

Our list customisation conflicts with the beamer class and with the beamerarticle package. The patch provided in beamerbasecompatibility solves the conflict except in case of language changes, so we provide our own patch. When the beamer is loaded, lists are not customised at all to ensure compatibility. The beamerarticle package needs to be loaded *before* Babel, a warning is issued otherwise, see section 2.10; a light customisation is compatible with the beamerarticle package.

```
1423 \def\FB@french{french}
1424 \def\FB@acadian{acadian}
1425 \newif\ifFB@mainlanguage@FR
1426 \AtEndOfPackage{%
1427
      \ifx\bbl@main@language\FB@french \FB@mainlanguage@FRtrue
1428
      \else \ifx\bbl@main@language\FB@acadian \FB@mainlanguage@FRtrue \fi
1429
1430
      \ifFB@mainlanguage@FR
1431
        \FBGlobalLayoutFrenchtrue
        \@ifclassloaded{beamer}%
1432
          {\PackageInfo{french.ldf}{%
1433
              No list customisation for the beamer class,%
1434
              \MessageBreak reported}}%
1435
          {\@ifpackageloaded{beamerarticle}%
1436
             {\FBStandardItemLabelsfalse
1437
              \FBStandardListSpacingfalse
1438
              \PackageInfo{french.ldf}{%
1439
                 Minimal list customisation for the beamerarticle%
1440
                 \MessageBreak package; reported}}%
1441
Otherwise customise lists "à la française":
             {\FBStandardListSpacingfalse
1442
              \FBStandardItemizeEnvfalse
1443
              \FBStandardEnumerateEnvfalse
1444
              \FBStandardItemLabelsfalse}%
1445
1446
          }
        \FBIndentFirsttrue
1447
        \FBFrenchFootnotestrue
1448
1449
        \FBAutoSpaceFootnotestrue
```

```
1450 \FBCustomiseFigTabCaptionstrue
1451 \else
1452 \FBGlobalLayoutFrenchfalse
1453 \fi
```

babel-french being an option of Babel, it cannot load a package (keyval) while french.ldf is read, so we defer the loading of keyval and the options setup at the end of Babel's loading.

```
\RequirePackage{keyval}%
      \define@key{FB}{ShowOptions}[true]%
1455
1456
              {\csname FBShowOptions#1\endcsname}%
The next two keys can only be toggled when French is the main language.
      \define@key{FB}{StandardLayout}[true]%
1457
1458
              {\ifFB@mainlanguage@FR
1459
                 \csname FBStandardLayout#1\endcsname
               \else
1460
1461
                 \PackageWarning{french.ldf}%
1462
                    {Option `StandardlLayout' skipped:\MessageBreak
1463
                    French is *not* babel's last option.\MessageBreak
1464
                    Reported}%
               \fi
1465
               \ifFBStandardLayout
1466
                 \FBStandardListSpacingtrue
1467
                 \FBStandardItemizeEnvtrue
1468
                 \FBStandardItemLabelstrue
1469
                 \FBStandardEnumerateEnvtrue
1470
                 \FBIndentFirstfalse
1471
                 \FBFrenchFootnotesfalse
1472
1473
                 \FBAutoSpaceFootnotesfalse
                 \FBGlobalLayoutFrenchfalse
1474
               \else
1475
                 \FBStandardListSpacingfalse
1476
                 \FBStandardItemizeEnvfalse
1477
                 \FBStandardItemLabelsfalse
1478
                 \FBStandardEnumerateEnvfalse
1479
                 \FBIndentFirsttrue
1480
                 \FBFrenchFootnotestrue
1481
1482
                 \FBAutoSpaceFootnotestrue
1483
               \fi}%
     \define@key{FB}{GlobalLayoutFrench}[true]%
1484
              {\ifFB@mainlanguage@FR
1485
                \csname FBGlobalLayoutFrench#1\endcsname
1486
1487
                 \PackageWarning{french.ldf}%
1488
```

If this key is set to true when French is the main language, nothing to do: all flags keep their default value. If this key is set to false, nothing to do either: \babel@save will do the job.

{Option `GlobalLayoutFrench' skipped:\MessageBreak
French is *not* babel's last option.\MessageBreak

1493 \define@key{FB}{ReduceListSpacing}[true]%

Reported}%

\fi}%

1489

1490

```
{\csname FBReduceListSpacing#1\endcsname
1494
               \ifFBReduceListSpacing \FBStandardListSpacingfalse
1495
               \else \FBStandardListSpacingtrue\fi
1496
               }%
1497
      \define@key{FB}{StandardListSpacing}[true]%
1498
              {\csname FBStandardListSpacing#1\endcsname}%
1499
      \define@key{FB}{ListOldLayout}[true]%
1500
              {\csname FBListOldLayout#1\endcsname
1501
1502
               \ifFBListOldLayout
                 \FBStandardEnumerateEnvtrue
1503
                 \renewcommand*{\FrenchLabelItem}{\textendash}%
1504
               \fi}%
1505
      \define@key{FB}{CompactItemize}[true]%
1506
              {\csname FBCompactItemize#1\endcsname
1507
1508
               \ifFBCompactItemize
1509
                 \FBStandardItemizeEnvfalse
                 \FBStandardEnumerateEnvfalse
1510
1511
                 \FBStandardItemizeEnvtrue
1512
1513
                 \FBStandardEnumerateEnvtrue
1514
               \fi}%
     \define@key{FB}{StandardItemizeEnv}[true]%
1515
              {\csname FBStandardItemizeEnv#1\endcsname}%
1516
      \define@key{FB}{StandardEnumerateEnv}[true]%
1517
              {\csname FBStandardEnumerateEnv#1\endcsname}%
1518
     \define@key{FB}{StandardItemLabels}[true]%
1519
1520
              {\csname FBStandardItemLabels#1\endcsname}%
1521
     \define@key{FB}{ItemLabels}%
1522
              {\renewcommand*{\FrenchLabelItem}{#1}}%
1523
     \define@key{FB}{ItemLabeli}%
              {\renewcommand*{\Frlabelitemi}{#1}}%
1524
     \define@key{FB}{ItemLabelii}%
1525
              {\renewcommand*{\Frlabelitemii}{#1}}%
1526
     \define@key{FB}{ItemLabeliii}%
1527
              {\renewcommand*{\Frlabelitemiii}{#1}}%
1528
     \define@key{FB}{ItemLabeliv}%
1529
              {\renewcommand*{\Frlabelitemiv}{#1}}%
1530
     \define@key{FB}{StandardLists}[true]%
1531
              {\csname FBStandardLists#1\endcsname
1532
               \ifFBStandardLists
1533
                 \FBStandardListSpacingtrue
1534
1535
                 \FBStandardItemizeEnvtrue
                 \FBStandardEnumerateEnvtrue
1536
                 \FBStandardItemLabelstrue
1537
               \else
1538
                 \FBStandardListSpacingfalse
1539
                 \FBStandardItemizeEnvfalse
1540
                 \FBStandardEnumerateEnvfalse
1541
                 \FBStandardItemLabelsfalse
1542
1543
      \define@key{FB}{ListItemsAsPar}[true]%
1544
1545
              {\csname FBListItemsAsPar#1\endcsname}
      \define@key{FB}{IndentFirst}[true]%
1546
```

```
{\csname FBIndentFirst#1\endcsname}%
1547
      \define@key{FB}{FrenchFootnotes}[true]%
1548
              {\csname FBFrenchFootnotes#1\endcsname}%
1549
      \define@key{FB}{AutoSpaceFootnotes}[true]%
1550
              {\csname FBAutoSpaceFootnotes#1\endcsname}%
1551
      \define@key{FB}{AutoSpacePunctuation}[true]%
1552
              {\csname FBAutoSpacePunctuation#1\endcsname}%
1553
      \define@key{FB}{OriginalTypewriter}[true]%
1554
1555
              {\csname FBOriginalTypewriter#1\endcsname}%
      \define@key{FB}{ThinColonSpace}[true]%
1556
              {\csname FBThinColonSpace#1\endcsname
1557
               \ifFBThinColonSpace
1558
                 \renewcommand*{\FBcolonspace}{\FBthinspace}%
1559
               \fi}%
1560
1561
      \define@key{FB}{ThinSpaceInFrenchNumbers}[true]%
1562
              {\csname FBThinSpaceInFrenchNumbers#1\endcsname}%
     \define@key{FB}{FrenchSuperscripts}[true]%
1563
              {\csname FBFrenchSuperscripts#1\endcsname}
1564
     \define@key{FB}{LowercaseSuperscripts}[true]%
1565
              {\csname FBLowercaseSuperscripts#1\endcsname}
1566
     \define@key{FB}{PartNameFull}[true]%
1567
              {\csname FBPartNameFull#1\endcsname}%
1568
     \define@key{FB}{CustomiseFigTabCaptions}[true]%
1569
              {\csname FBCustomiseFigTabCaptions#1\endcsname}%
1570
     \define@key{FB}{OldFigTabCaptions}[true]%
1571
              {\csname FBOldFigTabCaptions#1\endcsname
1572
1573
               \ifFB0ldFigTabCaptions
1574
                 \def\FB@capsep@fix{\babel@save\FBCaption@Separator
1575
                         \def\FBCaption@Separator{\CaptionSeparator}}%
1576
                 \addto\extrasfrench{\FB@capsep@fix}%
                 \ifdefined\extrasacadian
1577
                   \addto\extrasacadian{\FB@capsep@fix}%
1578
                 \fi
1579
               \fi}%
1580
     \define@key{FB}{SmallCapsFigTabCaptions}[true]%
1581
              {\csname FBSmallCapsFigTabCaptions#1\endcsname
1582
               \ifFBSmallCapsFigTabCaptions
1583
               \else \let\FBfigtabshape\relax \fi}%
1584
      \define@key{FB}{SuppressWarning}[true]%
1585
              {\csname FBSuppressWarning#1\endcsname
1586
               \ifFBSuppressWarning
1587
1588
                 \renewcommand{\FBWarning}[1]{}%
1589
               \fi}%
Here are the options controlling French guillemets spacing and the output of
\frquote{}.
      \define@key{FB}{INGuillSpace}[true]%
1590
              {\csname FBINGuillSpace#1\endcsname
1591
               \ifFBINGuillSpace
1592
                 \renewcommand*{\FBguillspace}{\space}%
1593
1594
               \fi}%
      \define@key{FB}{InnerGuillSingle}[true]%
1595
              {\csname FBInnerGuillSingle#1\endcsname}%
1596
     \define@key{FB}{EveryParGuill}[open]%
1597
```

```
{\expandafter\let\expandafter
1598
                 \FBeveryparguill\csname FBguill#1\endcsname
1599
               \ifx\FBeveryparguill\FBguillopen
1600
               \else\ifx\FBeveryparguill\FBguillclose
1601
                     \else\ifx\FBeveryparguill\FBguillnone
1602
1603
                            \let\FBeveryparguill\FBguillopen
1604
                            \FBWarning{Wrong value for `EveryParGuill':
1605
1606
                                        try `open',\MessageBreak
                                        `close' or `none'. Reported}%
1607
                          \fi
1608
                    \fi
1609
               \fi}%
1610
      \define@key{FB}{EveryLineGuill}[open]%
1611
1612
              {\ifFB@luatex@punct
1613
                 \expandafter\let\expandafter
                    \FBeverylinequill\csname FBguill#1\endcsname
1614
                  \ifx\FBeverylineguill\FBguillopen
1615
                 \else\ifx\FBeverylineguill\FBguillclose
1616
                       \else\ifx\FBeverylineguill\FBguillnone
1617
1618
                            \else
                              \let\FBeverylineguill\FBguillnone
1619
                              \FBWarning{Wrong value for `EveryLineGuill':
1620
                                          try `open',\MessageBreak
1621
                                          `close' or `none'. Reported}%
1622
                            \fi
1623
                       \fi
1624
1625
                 \fi
1626
               \else
                 \FBWarning{Option `EveryLineGuill' skipped:%
1627
1628
                             \MessageBreak this option is for
                             LuaTeX *only*.\MessageBreak Reported}%
1629
               \fi}%
1630
```

Option UnicodeNoBreakSpaces (LuaLaTeX only) is meant for HTML translators: when true, all non-breaking spaces added by babel-french are coded in the PDF file as Unicode characters, namely U+A0 or U+202F, instead of penalties and glues.

```
\define@key{FB}{UnicodeNoBreakSpaces}[true]%
1631
              {\ifFB@luatex@punct
1632
1633
                  \csname FBucsNBSP#1\endcsname
1634
                 \ifFBucsNBSP \FB@ucsNBSP=1 \fi
1635
                 \FBWarning{Option `UnicodeNoBreakSpaces' skipped:%
1636
                             \MessageBreak this option is for
1637
                             LuaTeX *only*.\MessageBreak Reported}%
1638
               \fi
1639
              }%
1640
```

Inputing French quotes as *single characters* when they are available on the keyboard (through a compose key for instance) is more comfortable than typing \og and \fg. Life is simple here with modern LuaTeX or XeTeX engines: we just have to activate the \FB@addGUILspace attribute for LuaTeX or set \XeTeXcharclass of quotes to the proper value for XeTeX.

With pdfTeX (or old LuaTeX and XeTeX engines), quote characters are made active

and expand to \og\ignorespaces and {\fg} respectively if the current language is French, and to \guillemotleft and \guillemotright otherwise (think of German quotes), this is done by \FB@@og and \FB@@fg; thus correct non-breaking spaces will be added automatically to French quotes. The quote characters typed in depend on the input encoding, it can be single-byte (latin1, latin9, applemac,...) or multi-bytes (utf-8, utf8x); the next command is meant for checking whether a character is single-byte (\FB@second is empty) or not.

```
1641 \def\FB@parse#1#2\endparse{\def\FB@second{#2}}%
1642 \define@key{FB}{og}%
1643 {\ifFBunicode
```

LuaTeX or XeTeX in use, first try modern LuaTeX: we just need to set LuaTeX's attribute \FB@addGUILspace to 1,

```
1644 \iffB@luatex@punct
1645 \FB@addGUILspace=1 \relax
1646 \fi
```

then with XeTeX it is a bit more tricky:

1647 \ifFB@xetex@punct

\XeTeXinterchartokenstate is defined, we just need to set \XeTeXcharclass to \FB@guilo for the French opening quote in T1 and Unicode encoding (see subsection 2.2).

Issue a warning with older Unicode engines requiring active characters.

```
1653 \iffB@active@punct
1654 \FBWarning{Option og=« not supported with this version
1655 of\MessageBreak LuaTeX/XeTeX; reported}%
1656 \fi
1657 \else
```

This is for conventional TeX engines:

```
1658
                  \newcommand*{\FB@@og}{%
                     \ifFBfrench
1659
1660
                       \ifFB@spacing\FB@og\ignorespaces
                       \else\guillemotleft
1661
                       \fi
1662
                     \else\quillemotleft\fi}%
1663
                  \AtBeginDocument{%
1664
                     \ifdefined\uc@dclc
1665
```

Package inputenc with utf8x (ucs) encoding loaded, use \uc@dclc:

if encoding is not utf8x, check if the argument of og is a single-byte character:

```
1668 \FB@parse#1\endparse
1669 \ifx\FB@second\@empty
```

This means 8-bit character encoding. Package MULEenc (from CJK) defines \mule@def to map characters to control sequences.

```
1670
                         \ifdefined\mule@def
1671
                           \mathbf{11}_{\B@gog}
1672
                         \else
                           \ifdefined\DeclareInputText
1673
                             \@tempcnta`#1\relax
1674
                             \DeclareInputText{\the\@tempcnta}{\FB@@og}%
1675
                           \else
1676
Package inputenc not loaded, no way...
                             \FBWarning{Option `og' requires package
1677
                                         inputenc;\MessageBreak reported}%
1678
1679
                           \fi
                         \fi
1680
                       \else
1681
This means multi-byte character encoding, we assume UTF-8
                         \DeclareUnicodeCharacter{00AB}{\FB@@og}%
1682
                       \fi
1683
1684
                     \fi}%
               \fi
1685
              }%
1686
Same code for the closing quote.
1687
      \define@key{FB}{fg}%
1688
              {\ifFBunicode
                 \ifFB@luatex@punct
1689
                    \FB@addGUILspace=1 \relax
1690
1691
                 \ifFB@xetex@punct
1692
                    \XeTeXcharclass"14
                                          = \FB@guilf
1693
                    \XeTeXcharclass"BB
                                         = \FB@guilf
1694
                    \XeTeXcharclass"A0
                                         = \FB@guilnul
1695
                    \XeTeXcharclass"202F = \FB@guilnul
1696
                 \fi
1697
                 \ifFB@active@punct
1698
                    \FBWarning{Option fg=» not supported with this version
1699
1700
                               of\MessageBreak LuaTeX/XeTeX; reported}%
1701
                 \fi
1702
               \else
1703
                 \newcommand*{\FB@@fg}{%
1704
                     \ifFBfrench
                       \ifFB@spacing\FB@fg
1705
1706
                       \else\guillemotright
1707
                       ۱fi
                     \else\guillemotright\fi}%
1708
                 \AtBeginDocument{%
1709
1710
                     \ifdefined\uc@dclc
                       \uc@dclc{187}{default}{\FB@@fg}%
1711
                     \else
1712
1713
                       \FB@parse#1\endparse
1714
                       \ifx\FB@second\@empty
1715
                         \ifdefined\mule@def
```

```
\mathbf{1}_{\mathrm{0def}} \
1716
                          \else
1717
                            \ifdefined\DeclareInputText
1718
                              \@tempcnta`#1\relax
1719
                              \DeclareInputText{\the\@tempcnta}{\FB@@fg}%
1720
                            \else
1721
                              \FBWarning{Option `fg' requires package
1722
                                          inputenc;\MessageBreak reported}%
1723
1724
                            \fi
                          \fi
1725
                        \else
1726
                          \DeclareUnicodeCharacter{00BB}{\FB@@fg}%
1727
                        \fi
1728
1729
                     \fi}%
                \fi
1730
1731
               }%
1732 }
```

\FBprocess@options \FBprocess@options will be executed at \begin{document}: it first checks about packages loaded in the preamble (possibly after Babel) which customise lists: currently enumitem, paralist and enumerate; then it processes the options as set by \frenchsetup{} or forced for compatibility with packages loaded in the preamble. When French is the main language, \extrasfrench and \captionsfrench have already been processed by Babel at \begin{document} before \FBprocess@options. 1733 \newcommand*{\FBprocess@options}{%

> Update flags if a package customising lists has been loaded, currently: enumitem, paralist, enumerate.

```
1734
     \@ifpackageloaded{enumitem}{%
1735
         \ifFBStandardItemizeEnv
1736
1737
           \FBStandardItemizeEnvtrue
1738
           \PackageInfo{french.ldf}%
1739
              {Setting StandardItemizeEnv=true for\MessageBreak
1740
               compatibility with enumitem package,\MessageBreak
1741
               reported}%
         \fi
1742
         \ifFBStandardEnumerateEnv
1743
         \else
1744
           \FBStandardEnumerateEnvtrue
1745
1746
           \PackageInfo{french.ldf}%
1747
              {Setting StandardEnumerateEnv=true for\MessageBreak
1748
               compatibility with enumitem package,\MessageBreak
               reported}%
1749
1750
         \fi}{}%
1751
     \@ifpackageloaded{paralist}{%
         \ifFBStandardItemizeEnv
1752
         \else
1753
           \FBStandardItemizeEnvtrue
1754
           \PackageInfo{french.ldf}%
1755
              {Setting StandardItemizeEnv=true for\MessageBreak
1756
               compatibility with paralist package,\MessageBreak
1757
1758
               reported}%
```

```
\fi
1759
         \ifFBStandardEnumerateEnv
1760
         \else
1761
           \FBStandardEnumerateEnvtrue
1762
           \PackageInfo{french.ldf}%
1763
              {Setting StandardEnumerateEnv=true for\MessageBreak
1764
               compatibility with paralist package,\MessageBreak
1765
               reported}%
1766
1767
         \fi}{}%
      \@ifpackageloaded{enumerate}{%
1768
         \ifFBStandardEnumerateEnv
1769
         \e1se
1770
           \FBStandardEnumerateEnvtrue
1771
           \PackageInfo{french.ldf}%
1772
1773
              {Setting StandardEnumerateEnv=true for\MessageBreak
1774
               compatibility with enumerate package,\MessageBreak
1775
         \fi}{}%
1776
```

Reset \FB@ufl's normal meaning and update lists' settings now in case French is the main language:

```
1777 \def\FB@ufl{\update@frenchlists}
1778 \ifFB@mainlanguage@FR
1779 \update@frenchlists
1780 \fi
```

The layout of footnotes is handled at the \begin{document} depending on the values of flags FrenchFootnotes and AutoSpaceFootnotes (see section 2.14), nothing has to be done here for footnotes.

AutoSpacePunctuation adds a non-breaking space (in French only) before the four active characters (:;!?) even if none has been typed before them.

```
1781 \iffBAutoSpacePunctuation
1782 \autospace@beforeFDP
1783 \else
1784 \noautospace@beforeFDP
1785 \fi
```

When OriginalTypewriter is set to false (the default), \ttfamily, \rmfamily and \sffamily are redefined as \ttfamilyFB, \rmfamilyFB and \sffamilyFB respectively to prevent addition of automatic spaces before the four active characters in computer code.

```
1786
      \ifFB0riginalTypewriter
1787
      \else
        \let\ttfamilyORI\ttfamily
1788
        \let\rmfamilyORI\rmfamily
1789
        \let\sffamilyORI\sffamily
1790
1791
        \let\ttfamily\ttfamilyFB
1792
        \let\rmfamily\rmfamilyFB
        \let\sffamily\sffamilyFB
1793
1794
```

When package numprint is loaded with option autolanguage, numprint's command \npstylefrench has to be redefined differently according to the value of flag ThinSpaceInFrenchNumbers. As \npstylefrench was undefined in old versions of

numprint, we provide this command.

```
\@ifpackageloaded{numprint}%
1796
        {\ifnprt@autolanguage
           \providecommand*{\npstylefrench}{}%
1797
           \ifFBThinSpaceInFrenchNumbers
1798
             \renewcommand*{\FBthousandsep}{\,}%
1799
1800
           \g@addto@macro\npstylefrench{\npthousandsep{\FBthousandsep}}%
1801
         \fi
1802
1803
        }{}%
```

FrenchSuperscripts: if true \up=\fup, else \up=\textsuperscript. Anyway \up*=\FB@up@fake. The star-form \up*{} is provided for fonts that lack some superior letters: Adobe Jenson Pro and Utopia Expert have no "g superior" for instance.

```
\ifFBFrenchSuperscripts
1804
        \DeclareRobustCommand*{\up}{%
1805
          \texorpdfstring{\@ifstar{\FB@up@fake}{\fup}}{}%
1806
          }
1807
      \else
1808
        \DeclareRobustCommand*{\up}{%
1809
          \texorpdfstring{\@ifstar{\FB@up@fake}{\textsuperscript}}{}%
1810
1811
          }
     \fi
```

LowercaseSuperscripts: if false \FB@lc is redefined to do nothing.

```
1813 \iffBLowercaseSuperscripts
1814 \else
1815 \renewcommand*{\FB@lc}[1]{##1}%
1816 \fi
```

This is for koma-script, memoir and beamer classes. If the caption delimiter has been user customised, leave it unchanged. Otherwise, force the colon to behave properly in French (add locally \autospace@beforeFDP in case of AutoSpacePunctuation=false) and change the caption delimiter to \CaptionSeparator if CustomiseFigTabCaptions has been set to true.

```
1817
      \ifFB@koma
         \ifx\captionformat\FB@std@capsep
1818
           \ifFBCustomiseFigTabCaptions
1819
              \renewcommand*{\captionformat}{\CaptionSeparator}%
1820
1821
           \else
1822
              \renewcommand*{\captionformat}{{\autospace@beforeFDP :\ }}%
           \fi
1823
         \fi
1824
     \fi
1825
      \@ifclassloaded{memoir}%
1826
         {\ifx\@contdelim\FB@std@capsep
1827
            \ifFBCustomiseFigTabCaptions
1828
              \captiondelim{\CaptionSeparator}%
1829
1830
              \captiondelim{{\autospace@beforeFDP : }}%
1831
            \fi
1832
          \fi}{}%
1833
      \@ifclassloaded{beamer}%
1834
         {\protected@edef\FB@capsep{%
1835
```

```
\csname beamer@@tmpl@caption label separator\endcsname}%
1836
          \ifx\FB@capsep\FB@std@capsep
1837
            \ifFBCustomiseFigTabCaptions
1838
               \defbeamertemplate{caption label separator}{FBcustom}{%
1839
                   \CaptionSeparator}%
1840
               \setbeamertemplate{caption label separator}[FBcustom]%
1841
1842
               \defbeamertemplate{caption label separator}{FBcolon}{%
1843
                   {\autospace@beforeFDP : }}%
1844
1845
               \setbeamertemplate{caption label separator}[FBcolon]%
            \fi
1846
          \fi}{}%
1847
ShowOptions: if true, print the list of all options to the .log file.
      \ifFBShowOptions
1849
        \GenericWarning{* }{%
         *** List of possible options for babel-french ***\MessageBreak
1850
         [Default values between brackets when french is loaded *LAST*]%
1851
         \MessageBreak
1852
         ShowOptions [false]\MessageBreak
1853
         StandardLayout [false]\MessageBreak
1854
1855
         GlobalLayoutFrench [true]\MessageBreak
1856
         PartNameFull [true]\MessageBreak
         IndentFirst [true]\MessageBreak
1857
         ListItemsAsPar [false]\MessageBreak
1858
1859
         StandardListSpacing [false]\MessageBreak
1860
         StandardItemizeEnv [false]\MessageBreak
1861
         StandardEnumerateEnv [false]\MessageBreak
1862
         StandardItemLabels [false]\MessageBreak
         ItemLabels=\textemdash, \textbullet,
1863
            \protect\ding{43},... [\textendash]\MessageBreak
1864
         ItemLabeli=\textemdash, \textbullet,
1865
1866
            \protect\ding{43},... [\textendash]\MessageBreak
         ItemLabelii=\textemdash, \textbullet,
1867
1868
            \protect\ding{43},... [\textendash]\MessageBreak
         ItemLabeliii=\textemdash, \textbullet,
1869
1870
            \protect\ding{43},... [\textendash]\MessageBreak
         ItemLabeliv=\textemdash, \textbullet,
1871
            \protect\ding{43},... [\textendash]\MessageBreak
1872
         StandardLists [false]\MessageBreak
1873
1874
         ListOldLayout [false]\MessageBreak
         FrenchFootnotes [true]\MessageBreak
1875
1876
         AutoSpaceFootnotes [true]\MessageBreak
1877
         AutoSpacePunctuation [true]\MessageBreak
         ThinColonSpace [false]\MessageBreak
1878
         OriginalTypewriter [false]\MessageBreak
1879
1880
         UnicodeNoBreakSpaces [false]\MessageBreak
1881
         og= <left quote character>, fg= <right quote character>%
         INGuillSpace [false]\MessageBreak
1882
         EveryParGuill=open, close, none [open]\MessageBreak
1883
1884
         EveryLineGuill=open, close, none
                       [open in LuaTeX, none otherwise]\MessageBreak
1885
1886
         InnerGuillSingle [false]\MessageBreak
1887
         ThinSpaceInFrenchNumbers [false]\MessageBreak
```

```
SmallCapsFigTabCaptions [true]\MessageBreak
1888
        CustomiseFigTabCaptions [true]\MessageBreak
1889
        OldFigTabCaptions [false]\MessageBreak
1890
        FrenchSuperscripts [true]\MessageBreak
1891
        LowercaseSuperscripts [true]\MessageBreak
1892
1893
        SuppressWarning [false]\MessageBreak
1894
        \MessageBreak
        *************
1895
1896
        \MessageBreak\protect\frenchsetup{ShowOptions}}
     \fi
1897
1898 }
```

At \begin{document}, we have to provide an \xspace command in case the xspace package is not loaded, do some setup for hyperref's bookmarks, execute \FBprocess@options, switch LuaTeX punctuation on and issue some warnings if necessary.

```
1899 \AtBeginDocument{%
1900 \providecommand*{\xspace}{\relax}%
```

Let's now process the remaining options, either not explicitly set by \frenchsetup{} or possibly modified by packages loaded after babel-french.

```
1901 \FBprocess@options
```

When option UnicodeNoBreakSpaces is true (LuaLaTeX only) we need to redefine \FBmedkern, \FBthickkern and \FBthousandsep as Unicode characters.

```
1902
       \ i fFBucsNBSP
         \renewcommand*{\FBmedkern}{\char"202F\relax}%
1903
         \renewcommand*{\FBthickkern}{\char"A0\relax}%
1904
         \ifFBThinSpaceInFrenchNumbers
1905
           \renewcommand*{\FBthousandsep}{\char"202F\relax}%
1906
         \else
1907
           \renewcommand*{\FBthousandsep}{\char"A0\relax}%
1908
1909
         \fi
       \fi
1910
```

Finally, with pdfLaTeX, when OT1 encoding is in use at the \begin{document} a warning is issued; \encodingdefault being defined as 'long', the test would fail if \FBOTone was defined with \newcommand*!

```
1911
       \begingroup
         \newcommand{\FB0Tone}{0T1}%
1912
1913
         \ifx\encodingdefault\FB0Tone
           \FBWarning{OT1 encoding should not be used for French.%
1914
                       \MessageBreak
1915
1916
                      Add \protect\usepackage[T1]{fontenc} to the
1917
                       preamble\MessageBreak of your document; reported}%
         \fi
1918
1919
       \endgroup
1920 }
```

2.12 French lists

\listFB Vertical spacing in lists should be shorter in French texts than the defaults provided \listORI by LaTeX. Note that the easy way, just changing values of vertical spacing parameters \FB@listVsettings

when entering French and restoring them to their defaults on exit would not work; so we define the command \FB@listVsettings to hold the settings to be used by the French variant \listFB of \list. Note that switching to \listFB reduces vertical spacing in *all* environments built on \list: itemize, enumerate, description, but also abstract, quotation, quote and verse...

The amount of vertical space before and after a list is given by \topsep + \parskip (+ \partopsep if the list starts a new paragraph). IMHO, \parskip should be added only when the list starts a new paragraph, so I subtract \parskip from \topsep and add it back to \partopsep; this will normally make no difference because \parskip's default value is 0pt, but will be noticeable when \parskip is not null.

```
1921 \let\listORI\list
1922 \let\endlistORI\endlist
1923 \def\FB@listVsettings{%
1924 \setlength{\itemsep}{0.4ex plus 0.2ex minus 0.2ex}%
1925 \setlength{\parsep}{0.4ex plus 0.2ex minus 0.2ex}%
1926 \setlength{\topsep}{0.8ex plus 0.4ex minus 0.4ex}%
1927 \setlength{\partopsep}{0.4ex plus 0.2ex minus 0.2ex}%
```

\parskip is of type 'skip', its mean value only (*not the glue*) should be subtracted from \topsep and added to \partopsep, so convert \parskip to a 'dimen' using \@tempdima.

Let's now consider French itemize-lists. They differ from those provided by the standard LaTeX classes:

- The '•' is never used in French itemize-lists, an emdash '—' or an endash '—' is preferred for all levels. The item label to be used in French, stored in \FrenchLabelItem}, defaults to '—' and can be changed using \frenchsetup{} (see section 2.11).
- Vertical spacing between items, before and after the list, should be null with no glue added;
- In French the labels of itemize-lists are vertically aligned as shown p. 6.

\listindentFB Let's define four dimens \listindentFB, \descindentFB, \labelindentFB and \descindentFB \labelwidthFB to customise lists' horizontal indentations. They are given silly neg-\labelindentFB ative values here in order to eventually enable their customisation in the preamble. \labelwidthFB

They will get reasonnable defaults later when entering French (see \setlabelitemsFB and \setlistindentFB) unless they have been customised.

```
1939 \newdimen\listindentFB
1940 \setlength{\listindentFB}{-1pt}
1941 \newdimen\descindentFB
1942 \setlength{\descindentFB}{-1pt}
1943 \newdimen\labelindentFB
1944 \setlength{\labelindentFB}{-1pt}
1945 \newdimen\labelwidthFB
1946 \setlength{\labelwidthFB}{-1pt}
```

\leftmarginFB \FB@listHsettings holds the new horizontal settings chosen for French lists itemize, \FB@listHsettings enumerate and description (two possible layouts).

```
1947 \newdimen\leftmarginFB
1948 \def\FB@listHsettings{%
1949 \iffBListItemsAsPar
```

Optional layout: lists' items are typeset as paragraphs with indented labels.

```
1950 \itemindent=\labelindentFB
1951 \advance\itemindent by \labelwidthFB
1952 \advance\itemindent by \labelsep
1953 \leftmargini\z@
1954 \bbl@for\FB@dp {2, 3, 4, 5, 6}%
1955 {\csname leftmargin\romannumeral\FB@dp\endcsname =
1956 \labelindentFB}%
1957 \else
```

Default layout: labels hanging into the left margin.

```
1958
       \leftmarginFB=\labelwidthFB
1959
        \advance\leftmarginFB by \labelsep
       \blue{1, 2, 3, 4, 5, 6}
1960
          {\csname leftmargin\romannumeral\FB@dp\endcsname =
1961
             \leftmarginFB}%
1962
        \advance\leftmargini by \listindentFB
1963
1964
1965
     \leftmargin=\csname leftmargin%
         \ifnum\@listdepth=\@ne i\else ii\fi\endcsname
1966
1967 }
```

\itemizeFB New environment for French itemize-lists.

\FB@itemizesettings \FB@itemizesettings does two things: first suppress all vertical spaces including glue

unless option StandardListSpacing is set, then set horizontal indentations according to \FB@listHsettings unless option ListOldLayout is true (compatibility with lists up to v. 2.5k).

```
1968 \def\FB@itemizesettings{%
1969 \ifFBStandardListSpacing
1970 \else
1971 \setlength{\itemsep}{\z@}%
1972 \setlength{\parsep}{\z@}%
1973 \setlength{\topsep}{\z@}%
1974 \setlength{\partopsep}{\z@}%
1975 \@tempdima=\parskip
```

```
\addtolength{\partopsep}{\@tempdima}%
1977
1978
        \settowidth{\labelwidth}{\csname\@itemitem\endcsname}%
1979
        \ifFBListOldLayout
1980
          \setlength{\leftmargin}{\labelwidth}%
1981
          \addtolength{\leftmargin}{\labelsep}%
1982
          \addtolength{\leftmargin}{\parindent}%
1983
1984
        \else
1985
          \FB@listHsettings
        \fi
1986
1987 }
The definition of \itemizeFB follows the one of \itemize in standard LaTeX classes
(see ltlists.dtx), spaces are customised by \FB@itemizesettings.
1988 \def\itemizeFB{%
        \ifnum \@itemdepth >\thr@@\@toodeep\else
1989
          \advance\@itemdepth by \@ne
1990
          \edef\@itemitem{labelitem\romannumeral\the\@itemdepth}%
1991
          \expandafter
1992
          \list0RI
1993
          \csname\@itemitem\endcsname
1994
          \FB@itemizesettings
1995
1996
1997 }
1998 \let\enditemizeFB\endlistORI
1999 \def\setlabelitemsFB{%
     \let\labelitemi\Frlabelitemi
2001
     \let\labelitemii\Frlabelitemii
2002
     \let\labelitemiii\Frlabelitemiii
2003
     \let\labelitemiv\Frlabelitemiv
      \ifdim\labelwidthFB<\z@
2004
        \settowidth{\labelwidthFB}{\FrenchLabelItem}%
2005
2006
     \fi
2007 }
2008 \def\setlistindentFB{%
     \ifdim\labelindentFB<\z@
2009
2010
        \ifdim\parindent=\z@
2011
          \setlength{\labelindentFB}{1.5em}%
2012
        \else
          \setlength{\labelindentFB}{\parindent}%
2013
        \fi
2014
      \fi
2015
      \ifdim\listindentFB<\z@
2016
        \ifdim\parindent=\z@
2017
2018
          \setlength{\listindentFB}{1.5em}%
2019
2020
          \setlength{\listindentFB}{\parindent}%
2021
        \fi
     \fi
2022
     \ifdim\descindentFB<\z@
2023
        \ifFBListItemsAsPar
2024
          \setlength{\descindentFB}{\labelindentFB}%
2025
```

\addtolength{\topsep}{-\@tempdima}%

1976

```
\else
2026
2027
          \setlength{\descindentFB}{\listindentFB}%
        \fi
2028
      \fi
2029
2030 }
```

\enumerateFB The definition of \enumerateFB, new to version 2.6a, follows the one of \enumerate in standard LaTeX classes (see ltlists.dtx), vertical spaces are customised (or not) via \list (=\listFB or \listORI) and horizontal spaces (leftmargins) are borrowed from itemize lists via \FB@listHsettings.

```
2031 \def\enumerateFB{%
      \in \ensuremath{$\ \ifnum \\@enumdepth >\thr@\\@toodeep\else
2033
        \advance\@enumdepth by \@ne
        \edef\@enumctr{enum\romannumeral\the\@enumdepth}%
2034
2035
        \expandafter
2036
        \list
           \csname label\@enumctr\endcsname
2037
           {\FB@listHsettings
2038
            \usecounter\@enumctr\def\makelabel##1{\hss\llap{##1}}}%
2039
2040
      \fi
2041 }
2042 \let\endenumerateFB\endlistORI
```

\descriptionFB Same tuning for the description environment (see classes.dtx for the original definition). Customisable dimen \descindentFB, which defaults to \listindentFB, is added to \itemindent (first level only). When \descindentFB=0pt (1rst level labels start at the left margin), \leftmargini is reduced to \listindentFB instead of $\label{listindentfb}$ + $\label{listindentfb}$ + $\label{listindentfb}$.

> When option ListItemsAsPar is turned to true, the description items are also displayed as paragraphs; \descindentFB=0pt can be used to push labels to the left margin.

```
2043 \def\descriptionFB{%
2044
          \list{}{\FB@listHsettings
2045
                   \labelwidth=\z@
                   \ifFBListItemsAsPar
2046
2047
                     \itemindent=\descindentFB
2048
                   \else
                     \itemindent=-\leftmargin
2049
                     \ifnum\@listdepth=1
2050
                       \ifdim\descindentFB=\z@
2051
2052
                          \ifdim\listindentFB>\z@
                            \leftmargini=\listindentFB
2053
                            \leftmargin=\leftmargini
2054
                            \itemindent=-\leftmargin
2055
2056
                         \fi
                       \else
2057
                         \advance\itemindent by \descindentFB
2058
                       \fi
2059
2060
                     \fi
                   \fi
2061
                   \let\makelabel\descriptionlabel}%
2062
2063 }
2064 \let\enddescriptionFB\endlistORI
```

\update@frenchlists \update@frenchlists will set up lists according to the final options (default or part \bbl@frenchlistlayout of \frenchsetup{} eventually overruled in \FBprocess@options).

```
2065 \def\update@frenchlists{%
2066
     \setlistindentFB
2067
      \ifFBStandardListSpacing
     \else \let\list\listFB \fi
2068
     \ifFBStandardItemizeEnv
2069
     \else \let\itemize\itemizeFB \fi
2070
     \ifFBStandardItemLabels
2071
     \else \setlabelitemsFB \fi
2072
     \ifFBStandardEnumerateEnv
2073
     \else \let\enumerate\enumerateFB \let\description\descriptionFB \fi
2074
2075 }
```

If GlobalLayoutFrench=true, nothing has to be done at language's switches regarding lists. Otherwise, \extrasfrench saves the standard settings for lists and then executes \update@frenchlists. In both cases, there is nothing to do for lists in \noextrasfrench.

In order to ensure compatibility with packages customising lists, the command \update@frenchlists should not be included in the first call to \extrasfrench which occurs before the relevant flags are finally set, so we define \FB@ufl as \relax, it will be redefined later 'AtBeginDocument' by \FBprocess@options as \update@frenchlists, see p. 62.

```
2076 \def\FB@ufl{\relax}
2077 \def\bbl@frenchlistlayout{%
2078
     \ifFBGlobalLayoutFrench
2079
     \else
2080
        \babel@save\list
                                  \babel@save\itemize
        \babel@save\enumerate
                                  \babel@save\description
2081
        \babel@save\labelitemi
2082
                                  \babel@save\labelitemii
        \babel@save\labelitemiii \babel@save\labelitemiv
2083
2084
        \FB@ufl
2085
2086 }
2087 \addto\extrasfrench{\bbl@frenchlistlayout}
```

2.13 French indentation of sections

\bbl@frenchindent In French the first paragraph of each section should be indented, this is another \bbl@nonfrenchindent difference with US-English. This is controlled by the flag \if@afterindent.

> We will need to save the value of the flag \if@afterindent 'AtBeginDocument' before eventually changing its value.

```
2088 \def\bbl@frenchindent{%
2089
      \ifFBGlobalLayoutFrench
2090
      \else
        \babel@save\@afterindentfalse
2091
      \fi
2092
      \ifFBIndentFirst
2093
        \let\@afterindentfalse\@afterindenttrue
2094
        \@afterindenttrue
2095
2096
      \fi}
2097 \def\bbl@nonfrenchindent{%
```

```
\ifFBGlobalLavoutFrench
2008
        \ifFBIndentFirst
2099
          \@afterindenttrue
2100
        \fi
2101
     \fi}
2102
2103 \addto\extrasfrench{\bbl@frenchindent}
2104 \addto\noextrasfrench{\bbl@nonfrenchindent}
```

2.14 Formatting footnotes

The bigfoot package deeply changes the way footnotes are handled. When bigfoot is loaded, we just warn the user that babel-french will drop the customisation of footnotes.

The layout of footnotes is controlled by two flags \ifFBAutoSpaceFootnotes and \iffBFrenchFootnotes which are set by options of \frenchsetup{} (see section 2.11). The layout of footnotes does not depend on the current language (just think of two footnotes on the same page looking different because one was called in a French part, the other one in English!).

We save the original definition of \@footnotemark at the \begin{document} in order to include any customisation that packages might have done; we define a variant \@footnotemarkFB which just adds a thin space before the number or symbol calling a footnote (any space typed in is removed first). The choice between the two definitions (valid for the whole document) is controlled by flag \ifFBAutoSpaceFootnotes.

```
2105 \AtBeginDocument{\@ifpackageloaded{bigfoot}%
                        {\PackageInfo{french.ldf}%
2106
                          {bigfoot package in use.\MessageBreak
2107
                           babel-french will NOT customise footnotes;%
2108
2109
                           \MessageBreak reported}}%
                        {\let\@footnotemarkORI\@footnotemark
2110
2111
                         \def\@footnotemarkFB{\leavevmode\unskip\unkern
2112
                                               \,\@footnotemarkORI}%
                         \ifFBAutoSpaceFootnotes
2113
                           \let\@footnotemark\@footnotemarkFB
2114
2115
                         \fi}%
                    }
2116
```

\@makefntextFB We then define \@makefntextFB, a variant of \@makefntext which is responsible for the layout of footnotes, to match the specifications of the French 'Imprimerie Nationale': footnotes will be indented by \parindentFFN, numbers (if any) typeset on the baseline (instead of superscripts), right aligned on \parindentFFN and followed by a dot and an half quad kern. Whenever symbols are used to number footnotes (as in \thanks for instance), we switch back to the standard layout (the French layout of footnotes is meant for footnotes numbered by arabic or roman digits).

> The value of \parindentFFN will be redefined at the \begin{document}, as the maximum of \parindent and 1.5em unless it has been set in the preamble (the weird value 10in is just for testing whether \parindentFFN has been set or not).

```
2117 \newdimen\parindentFFN
2118 \parindentFFN=10in
```

\FBfnindent will be set 'AtBeginDocument' to the width of the box holding the footnote mark, \dotFFN and \kernFFN (flushed right). It is used by memoir and koma-script

```
classes.
```

```
2119 \newcommand*{\dotFFN}{.}
2120 \newcommand*{\kernFFN}{\kern .5em}
2121 \newdimen\FBfnindent
```

\@makefntextFB's definition is now tuned according to the document's class for better compatibility.

Koma-script classes provide \deffootnote, a handy command to customise the footnotes' layout (see English manual scrguien.pdf); it redefines \@makefntext and \@@makefnmark. First, save the original definitions.

```
2122 \iffB@koma
2123 \let\@makefntextORI\@makefntext
2124 \let\@@makefnmarkORI\@@makefnmark
```

\@makefntextFB and \@@makefnmarkFB are used when option FrenchFootnotes is true.

\@makefntextTH and \@@makefnmarkTH are meant for the \thanks command used by \maketitle when FrenchFootnotes is true.

```
2129 \deffootnote[\parindentFFN]{0pt}{\parindentFFN}%
2130 {\textsuperscript{\thefootnotemark}}
2131 \let\@makefntextTH\@makefntext
2132 \let\@@makefnmarkTH\@@makefnmark
```

Restore the original definitions.

```
2133 \let\@makefntext\@makefntextORI
2134 \let\@@makefnmark\@@makefnmarkORI
2135 \fi
```

Definitions for the memoir class:

2136 \@ifclassloaded{memoir}

(see original definition in memman.pdf)

```
2137 {\newcommand{\@makefntextFB}[1]{%
2138 \def\footscript##1{##1\dotFFN\kernFFN}%
2139 \setlength{\footmarkwidth}{\FBfnindent}%
2140 \setlength{\footmarksep}{-\footmarkwidth}%
2141 \setlength{\footparindent}{\parindentFFN}%
2142 \makefootmark #1}%
2143 }{}
```

Definitions for the beamer class:

```
2144 \@ifclassloaded{beamer}
```

(see original definition in beamerbaseframecomponents.sty), note that for the beamer class footnotes are LR-boxes, not paragraphs, so \parindentFFN is irrelevant. class.

```
2145 {\def\@makefntextFB#1{%
2146 \def\insertfootnotetext{#1}%
2147 \def\insertfootnotemark{\insertfootnotemarkFB}%
2148 \usebeamertemplate***{footnote}}%
2149 \def\insertfootnotemarkFB{%
2150 \usebeamercolor[fg]{footnote mark}%
```

```
2151 \usebeamerfont*{footnote mark}%
2152 \llap{\@thefnmark}\dotFFN\kernFFN}%
2153 }{}
```

Now the default definition of \@makefntextFB for standard LaTeX and AMS classes. The next command prints the footnote mark according to the specifications of the French 'Imprimerie Nationale'. Keep in mind that \@thefnmark might be empty (i.e. in AMS classes' titles)!

```
2154 \providecommand*{\insertfootnotemarkFB}{%
2155 \parindent=\parindentFFN
2156 \rule\z@\footnotesep
2157 \setbox\@tempboxa\hbox{\@thefnmark}%
2158 \ifdim\wd\@tempboxa>\z@
2159 \llap{\@thefnmark}\dotFFN\kernFFN
2160 \fi}
2161 \providecommand\@makefntextFB[1]{\insertfootnotemarkFB #1}
```

The rest of \@makefntext's customisation is done at the \begin{document}. We save the original definition of \@makefntext, and then redefine \@makefntext according to the value of flag \ifFBFrenchFootnotes (true or false). Koma-script classes require a special treatment.

The LuaTeX command \localleftbox and \FBeverypar@quote used by \frquote{} have to be reset inside footnotes; done for LaTeX based formats only.

```
2162 \providecommand\localleftbox[1]{}
2163 \AtBeginDocument{%
       \@ifpackageloaded{bigfoot}{}%
2164
          {\ifdim\parindentFFN<10in
2165
2166
2167
             \parindentFFN=\parindent
2168
             \ifdim\parindentFFN<1.5em \parindentFFN=1.5em \fi
2169
           \settowidth{\FBfnindent}{\dotFFN\kernFFN}%
2170
           \addtolength{\FBfnindent}{\parindentFFN}%
2171
2172
           \let\@makefntextORI\@makefntext
           \ifFB@koma
```

Definition of \@makefntext for koma-script classes: running makefntextORI inside a group to reset \localleftbox{} and \FBeverypar@quote would mess up the layout of footnotes whenever the first manadatory argument of \deffootnote{} (used as \leftskip) is non-nil (default is lem, Opt in French).

```
\let\@@makefnmarkORI\@@makefnmark
2174
             \long\def\@makefntext#1{%
2175
2176
               \localleftbox{}%
               \let\FBeverypar@save\FBeverypar@quote
2177
               \let\FBeverypar@quote\relax
2178
2179
               \ifFBFrenchFootnotes
2180
                 \ifx\footnote\thanks
                    \let\@@makefnmark\@@makefnmarkTH
2181
                    \@makefntextTH{#1}
2182
                 \else
2183
                    \let\@@makefnmark\@@makefnmarkFB
2184
2185
                    \@makefntextFB{#1}
2186
```

Special add-on for the memoir class: \@makefntext is redefined as \makethanksmark by \maketitle, hence these settings to match the other notes' vertical alignment.

```
2194 \@ifclassloaded{memoir}%
2195 {\ifFBFrenchFootnotes
2196 \setlength{\thanksmarkwidth}{\parindentFFN}%
2197 \setlength{\thanksmarksep}{-\thanksmarkwidth}%
2198 \fi
2199 }{}%
```

Special add-on for the beamer class: issue a warning in case $\parindent FFN$ has been changed.

```
2200
             \@ifclassloaded{beamer}%
                 {\ifFBFrenchFootnotes
2201
                    \ifdim\parindentFFN=1.5em\else
2202
                      \FBWarning{%
2203
                         \protect\parindentFFN\space is ineffective%
2204
                         \MessageBreak within the beamer class.%
2205
                         \MessageBreak Reported}%
2206
                    \fi
2207
                  \fi
2208
                 }{}%
2209
```

Definition of \@makefntext for all other classes:

```
\long\def\@makefntext#1{%
2211
               \localleftbox{}%
2212
               \let\FBeverypar@save\FBeverypar@quote
2213
               \let\FBeverypar@quote\relax
2214
               \ifFBFrenchFootnotes
2215
                  \@makefntextFB{#1}%
               \else
2216
                  \@makefntextORI{#1}%
2217
               \fi
2218
               \let\FBeverypar@quote\FBeverypar@save
2219
2220
               \localleftbox{\FBeveryline@quote}}%
           \fi
2221
        }%
2222
```

For compatibility reasons, we provide definitions for the commands dealing with the layout of footnotes in babel-french version 1.6. $\frenchsetup{}$ (see in section 2.11) should be preferred for setting these options. $\frenchsetup{}$ that's why the test $\frenchsetup{}$ frenchFootnotes is done inside $\mbox{}$ makefntext.

```
2224 \newcommand*{\AddThinSpaceBeforeFootnotes}{\FBAutoSpaceFootnotestrue}
2225 \newcommand*{\FrenchFootnotes}{\FBFrenchFootnotestrue}
2226 \newcommand*{\StandardFootnotes}{\FBFrenchFootnotesfalse}
```

2.15 Clean up and exit

Final cleaning. The macro \ldf@finish takes care for setting the main language to be switched on at \begin{document} and resetting the category code of @ to its original value. \loadlocalcfg is redefined locally in order not to load any .cfg file for French.

```
2227 \FBclean@on@exit
2228 \ldf@finish\CurrentOption
2229 \let\loadlocalcfg\FB@llc
2230 </french>
```

2.16 Files frenchb.ldf, francais.ldf, canadien.ldf and acadian.ldf

Babel now expects a <lang>.ldf file for each <lang>. So we create portmanteau .ldf files for options canadien, francais, frenchb and acadian. These files themselves only load french.ldf which does the real work. Warn users about options canadien, frenchb and francais being deprecated and force recommended options acadian or french.

```
2231 <*acadian>
2232 \PackageInfo{acadian.ldf}%
     {`acadian' dialect is currently\MessageBreak
       *absolutely identical* to the\MessageBreak
2234
       `french' language; reported}
2235
2236 </acadian>
2237 <*canadien>
2238 \PackageWarning{canadien.ldf}%
     {Option `canadien' for Babel is *deprecated*,\MessageBreak
      it might be removed sooner or later. Please\MessageBreak
2240
      use `acadian' instead; reported}%
2241
2242 \def\CurrentOption{acadian}
2243 \def\datecanadien{\dateacadian}
2244 \def\captionscanadien{\captionsacadian}
2245 \def\extrascanadien{\extrasacadian}
2246 \def\noextrascanadien{\noextrasacadian}
2247 </canadien>
2248 <*francais>
2249 \PackageWarning{francais.ldf}%
2250 {Option `francais' for Babel is *deprecated*,\MessageBreak
      it might be removed sooner or later. Please\MessageBreak
      use `french' instead; reported}%
2253 \chardef\l@francais\l@french
2254 \def\CurrentOption{french}
2255 </francais>
```

Compatibility code for Babel pre-3.13: frenchb.ldf could be loaded with options acadian, canadien, frenchb or francais.

```
2256 <*frenchb>
2257 \def\bbl@tempa{frenchb}
2258 \ifx\CurrentOption\bbl@tempa
2259 \chardef\l@frenchb\l@french
2260 \def\CurrentOption{french}
```

```
2261
     \PackageWarning{babel-french}%
        {Option `frenchb' for Babel is *deprecated*,\MessageBreak
2262
         it might be removed sooner or later. Please\MessageBreak
2263
        use `french' instead; reported}
2264
2265 \else
     \def\bbl@tempa{francais}
2266
     \ifx\CurrentOption\bbl@tempa
2267
2268
        \chardef\l@francais\l@french
2269
        \def\CurrentOption{french}
Plain formats: no warning when francais.sty loads frenchb.ldf (Babel pre-3.13).
2270
        \ifx\magnification\@undefined
2271
          \PackageWarning{babel-french}%
2272
            {Option `francais' for Babel is *deprecated*,\MessageBreak
2273
             it might be removed sooner or later. Please\MessageBreak
             use `french' instead; reported}
2274
        \fi
2275
     \else
2276
        \def\bbl@tempa{canadien}
2277
        \ifx\CurrentOption\bbl@tempa
2278
          \def\CurrentOption{acadian}
2279
2280
          \PackageWarning{babel-french}%
            {Option `canadien' for Babel is *deprecated*,\MessageBreak
2281
2282
             it might be removed sooner or later. Please\MessageBreak
2283
             use `acadian' instead; reported}
2284
        \fi
2285
     \fi
2286\fi
2287 </frenchb>
2288 <acadian|canadien|frenchb|francais>\input french.ldf\relax
2289 <acadian|canadien>\let\extrasacadian\extrasfrench
2290 <acadian|canadien>\let\noextrasacadian\noextrasfrench
```

3 Change History

Changes are listed in reverse order (latest first) and limited to babel-french v3.

| v3.5m | leave caption delimiter unchanged | |
|---|--------------------------------------|-----|
| \FBtextellipsis: No longer redefine | if it has been user customised | 63 |
| \dots, only \textellipsis's | v3.5h | |
| default definition is changed in | frenchb.lua: Added glues and | |
| French | penalties should inherit attributes | |
| v3.5l | from the related punctuation | |
| General: No warning about | character; this is mandatory for | |
| \@makecaption for more classes. 50 | Lua-UL to underline and highlight | |
| \captionsfrench: Redefine | them. Thanks to Marcel Krüger for | |
| \fnum@figure and \fnum@table | . 3 | 24 |
| separately 47 | Code reorganised for better | |
| v3.5k | efficiency | 24 |
| General: \degre, \degres, | v3.5g | |
| \circonflexe, \tild, \boi and | frenchb.lua: The kerning callback is | |
| \at are now safe in bookmarks 44 | • | |
| \pdfstringdefDisableCommands | add_to_callback actually deletes | |
| dropped 65 | | |
| Reorganise warnings about ':' in | by Marcel Krüger on SE | 24 |
| captions, according to | v3.5f | |
| enhancements in caption.sty v3.5a. 50 | | |
| \bsc: \bsc now relies on | too early in file 'canadien.ldf': | |
| \texorpdfstring to be safe in | \l@acadian might not be defined. | 15 |
| bookmarks 43 | | |
| \captionsfrench: Small caps | allowed again only for backward | |
| removed in \figurename and | compatibility (deprecated) | /5 |
| \tablename, use \fnum@figure | \DecimalMathComma: Fixed bug with | |
| and \fnum@table instead 47 | | |
| \FB@fg: \FB@og and \FB@fg now rely | added if used with the icomma | 4 = |
| on \texorpdfstring to be safe in | 1 3 . | 45 |
| bookmarks 36 | | |
| \frquote: \frquote now relies on | \frenchsetup: StandardLayout and | |
| \texorpdfstring to be safe in | GlobalLayoutFrench options can no | |
| bookmarks | | E 1 |
| \fup: \up and \fup now rely on | not the main language | 54 |
| \texorpdfstring to be safe in | \frquote: Make resettings global on | 40 |
| bookmarks 41 | | 40 |
| \no: \no, \nos, \No, \Nos, \primo, | new command \NoEveryParQuote. | 40 |
| \fprimo, now rely on | reset \FB@addGUILspace attribute | 20 |
| \texorpdfstring to be safe in bookmarks | inside \localleftbox (LuaTeX) | 39 |
| | v3.5d | |
| v3.5j | \frenchsetup: ReduceListSpacing | |
| General: For memoir, koma-script and | option depreciated: see | E 2 |
| beamer captions, \FB@std@sep has to be defined before activating | , 3 | 53 |
| the colon | v3.5c | |
| | deficial. Remove grouping inside | |
| v3.5i | \@makefntext, \localleftbox | |
| \FBprocess@options: For memoir, | and \FBeverypar@quote saved | 72 |
| koma-script and beamer classes, | and restored instead | 13 |

| \frquote: \FBeverypar@quote's value now properly reset across | | New attribute \FB@dialect for the French dialect acadian | 20 |
|---|-----------|---|----|
| level changes | 39 | New command \FBsetspaces to fine tune spacing independently in | |
| 0x27 changed from 0x2019 to | | French and in French dialects | 18 |
| 0x27 for Unicode engines | 16 | Shrink/stretch removed in | |
| v3.5b | | \FBthousandsep | 47 |
| General: Reset \FBeverypar@quote | | Toks \FBcolonsp, \FBthinsp and | |
| locally inside \@makefntext. | | \FBguillsp removed | 18 |
| Needed by \frquote | 73 | frenchb.lua: Global 'FBsp' table | |
| \frquote: New command | | added; local function 'get_glue' | |
| \FB@addquote@everypar to | | changed into global 'FBget_glue'. | 23 |
| manage \everypar: \frquote | | \datefrench: Specific code for Plain | |
| failed when used immediately after | | finally removed (babel bug | |
| a sectionning command | 38 | reported) | 40 |
| v3.5a | | \extrasfrench: Change | |
| General: New optional layout for lists: | | \(no)extras\CurrentOption to | |
| lists' items can be typeset as | | \(no)extrasfrench. | |
| paragraphs with indented labels | | \(no)extrasacadian will be defined as \(no)extrasfrench in | |
| while the default leaves the labels | | file acadian.ldf | 16 |
| hanging into the left margin | 6/ | \frenchsetup: Patch for koma-script | 10 |
| \descriptionFB: ListItemsAsPar | | classes moved here, after | |
| option taken into account for | CO | \ifFBPartNameFull is defined, so | |
| description lists. | 09 | that it applies to \extrasacadian | |
| \frenchsetup: New option ListItemsAsPar for displaying lists' | | too: \AtEndOfPackage is too late. | 54 |
| items "as paragraphs" | 53 | v3.3d | |
| v3.4d | 33 | frenchb.lua: In default mode, for ':' | |
| \frenchsetup: New test for deciding | | only, check if next node is a glyph | |
| about utf8 encoding for keys og | | or not. If it is, turn the 'auto' flag to | |
| and fg (the former one fails with | | false (avoids spurious spaces in | |
| LaTeX 2018 release) | 58 | URLs, MSDOS paths or 10:35) | 25 |
| v3.4c | | v3.3c | |
| \ifFBXeTeX: Reverting to former test, | | General: LaTeX 2017-04-15 defines TU | |
| beware of \XeTeXrevision left as | | encoding for Unicode engines, fontspec is no longer required | 65 |
| \relax by careless testing | 16 | New command \FBthousandsep to | 05 |
| v3.4b | | customise numprint | 47 |
| \datefrench: Do not redefine \date | | New configurable kerns \FBmedkern, | |
| as \frenchdate in French | 40 | and \FBthickkern suitable for | |
| v3.4a | | HTML translation. | 43 |
| General: \LdfInit checks | | Reorganise warnings when the | |
| \FBclean@on@exit instead of | | caption, subcaption or floatrow | |
| \captionsfrench (undefined in | | packages are loaded before | |
| PLain). Prevents loading french.ldf | - 4 | babel/french | 50 |
| again with acadian option. | | Reset \localleftbox locally inside | |
| babel-french now requires eTeX | 14 | \@makefntext. Needed by | |
| Lua function token.get_meaning | | \frquote with LuaTeX | 73 |
| requires LuaTeX 1.0 | 21 | frenchb.lua: Function 'get_glue' | |
| New \FBgspchar to customise the | | robustified. 'french_punctuation' | |
| space character to be used for \og | | can insert Unicode characters | 22 |
| and\fg with the UnicodeNoBreakSpaces option | 36 | instead of glues | 22 |
| omcodenobieakspaces option | 20 | Triencuserah, Mem ohnon | |

| 'UnicodeNoBreakSpaces' for html translators (LuaLaTeX only) | 58 | Warn when wrong values are provided to options EveryParGuill | |
|---|----|---|----|
| v3.3b | | or EveryLineGuill | 57 |
| General: Generate portmanteau files | | \frquote: Default options of | |
| acadian.ldf, canadien.ldf, | | \frquote are no longer | |
| frenchb.ldf, and francais.ldf | | engine-dependent | 38 |
| and warn about deprecated | | v3.2f | |
| options | 75 | \DecimalMathComma: Fixed conflict | |
| New 'if' \ifFBfrench to replace | | with the icomma package | 45 |
| \iflanguage test which is based | | v3.2e | |
| on patterns | 16 | General: Add missing redefinitions for | |
| v3.3a | | \leftmarginv,\leftmarginvi. | |
| General: Compatibility code for pre | | Suggested by J.F. Burnol | 67 |
| 2015/10/01 LaTeX release | | <pre>\DecimalMathComma:</pre> | |
| removed, see ltnews23.tex | 20 | \DecimalMathComma didn't work | |
| Skip \FBguillskip for LuaTeX | | with LuaTeX. Fixed now | 45 |
| replaced by toks \FBguillsp | 18 | v3.2d | |
| \captionsfrench: Commands | | \descriptionFB: Changed | |
| \frenchpartfirst, | | \listindentFB to \descindentFB | |
| \frenchpartsecond and | | which defaults to \listindentFB. | |
| \frenchpartnameord added | 47 | \leftmargini reduced when | |
| \FBthinspace: Skips \FBcolonskip | | \descindentFB is null | 69 |
| and \FBthinskip replaced by toks | | v3.2c | |
| \FBcolonsp and \FBthinsp | 17 | General: New LuaTeX attribute | |
| \frenchsetup: \frenchbsetup is now | | \FB@spacing | 20 |
| an alias for \frenchsetup | 53 | Newif \ifFB@spacing and new | |
| Options INGuillSpace, | | commands \FB@spacingon, | |
| ThinColonSpace no longer delayed | | \FB@spacingoff to control space | |
| AtBeginDocument | 53 | tuning in French | 20 |
| \frquote: \FB@quotespace (kern), | | Switch \ifFB@spacing added to the | |
| changed into \FB@guillspace | 38 | four French shorthands | 33 |
| v3.2h | | \FB@xetex@punct@french: Switch | |
| \@makefntextFB: With beamer.cls, | | \ifFB@spacing added to all | |
| add \llap to \@thefnmark for | | \XeTeXinterchartoks | |
| notes numbered over 99 | 72 | commands | 31 |
| \bbl@frenchlistlayout: Execute | | \FBthinspace: Change .16667em to | |
| \update@frenchlists only if | | .5\fontdimen2\font to get in | |
| GlobalLayoutFrench is false. Delete | | XeTeX and pdfTeX the same | |
| stuff for lists in \noextrasfrench. | 70 | spacing as in LuaTeX | 17 |
| \frenchsetup: Option | | \frenchsetup: Add a warning about | |
| GlobalLayoutFrench skipped when | | options og/fg for old XeTeX or | |
| French is not the main language. | 54 | LuaTeX engines requiring active | |
| v3.2g | | characters | 58 |
| General: Changed Unicode definition | | \NoAutoSpacing: New definition | |
| of \boi | 44 | based on \FB@spacing@off | |
| fontspec defines TU encoding now | | common to all engines | 35 |
| and no longer loads xunicode.sty. | | \ttfamilyFB: New definitions of | |
| Test changed | 65 | \ttfamilyFB and co, common to | |
| Issue a warning if beamerarticle.sty | | all engines, based on | |
| is loaded after babel | 52 | \FB@spacing@off | |
| \frenchsetup: Minimal list | | and\FB@spacing@on | 35 |
| customisation when | | v3.2b | |
| beamerarticle.sty is loaded | 54 | General: Load Itluatex.tex for plain | |

| LuaTeX to ensure \newattribute | v3.1k | |
|--|---|----|
| is defined | General: (pdfTeX shorthands) test on \lastskip changed from Opt to 1sp for active punctuation for | |
| babel/french 5 | consistency with XeTeX and | |
| frenchb.lua: glue_spec removed; starting with LuaTeX 0.95, glue specifications fit in glue 2 | LuaTeX | 33 |
| \ifFB@xetex@punct: New counter \FB@nonchar needed for non | space insertion before high ponctuation. Add a check on | 21 |
| characters: it's value will be 4095 | \lastkip | 31 |
| for new engines and 255 for older | v3.1j General: Loading luatexbase.sty is no | |
| ones | longer needed with LaTeX release | 20 |
| made robust | \frquote: \fr@quote completely | |
| v3.2a | rewritten: \leavevmode added and | |
| \@makefntextFB: beamer.cls requires | explicitly save/retore \everypar | |
| a specific definition of | and \localleftbox instead of | |
| \@makefntextFB (pointed out by DB). The same is true for memoir | using a group in order to ensure | |
| and koma-script classes (done) 7 | compatibility with package wrapfig. | 38 |
| \fg: \xspace moved from \FB@fg to | \Packagewarning is undefined in | |
| \fg: \xspace moved from \frequote, | Plain, use \fb@warning instead | 38 |
| pointed out by Sonia Labetoulle. As | v3.1i | |
| a side effect \xspace is now active | General: \nombre command changed | |
| in \fg in and outside French 3 | when numprint.sty is not loaded: only one warning, no error | 47 |
| v3.1m | Remove restriction about loading | 47 |
| frenchb.lua: new_glue_scaled | numprint.sty after babel | 52 |
| returns nil in case of invalid font | \frquote: \luatexlocalleftbox | |
| table (i.e. lcircle1.pfb). In such | changed to \localleftbox by new | |
| cases babel-french leaves the node | LaTeX release 2015/10/01 | 39 |
| list unchanged 2 | ⁴ v3.1h | |
| v3.1l | General: french.cfg from e-french | |
| General: Add a variant of | conflicts with babel-french. Do NOT | |
| \babel@savevariable to save \XeTeXcharclass(es) in a loop 3 | load it (no need for .cfg files with | 7. |
| frenchb.lua: font.getfont(fid) | ,, ,, , | /5 |
| possibly returns nil even for a | v3.1g General: Lua function | |
| positive fid (i.e. AMS lcircle1.pfb). | french_punctuation is now inserted | |
| Reported by François Legendre 2 | | |
| \FB@luatex@punct@french: Use | (no priority) instead of 'hpack_filter' | |
| \babel@save to save and restore | and 'pre_linebreak_filter' | 29 |
| \shorthandon and | Use Babel defined loops \bbl@for | |
| \shorthandoff 2 | | |
| \FB@xetex@punct@french: Save and restore | file ltcntrl.dtx (\@for is undefined in Plain) | 30 |
| \XeTeXinterchartokenstate, | frenchb.lua: Flag addgl set to false | |
| \shorthandon, \shorthandoff | for '«' at the end of an \hbox or a | |
| using \babel@savevariable and | paragraph or when followed by a | 27 |
| \babel@save, | null glue (i.e. springs) | 27 |
| \XeTeXcharclass(es) using \FB@savevariable@loop 3 | flag addgl set to false for '»' at the beginning of an \hbox or a | |

| | paragraph or a tabular 'l' and 'c' | | \captionsfrench: Change \scshape | |
|-----|--|----|---------------------------------------|-----|
| | columns | 27 | to customisable \FBfigtabshape | |
| | Node HLIST added; node TEMP | | for \figurename and \tablename. | 47 |
| | added for the first node of \hboxes. | 22 | \frenchsetup: New option | |
| | \captionsfrench: \partname's | | SmallCapsFigTabCaptions | 53 |
| | definition depends now on flag | | \ieres: Removed \lowercase from | |
| | PartNameFull. No need to redefine | | definitions of \ieme and co: \up | |
| | it in \frenchbsetup | 47 | already does the conversion | 42 |
| | \frenchsetup: Bug fix for | | \no: Removed \lowercase from | |
| | koma-scripts classes: a spurious | | definitions of \FrenchEnumerate, | |
| | dot was added by the | | \No and co: \up already does | |
| | \partformat command | 54 | the conversion. | 43 |
| | PartNameFull now just sets the flag, | | v3.1a | |
| | nothing to add to | | General: fontspec is not required for | |
| | \captionsfrench when false | 53 | T1 fonts used with the | |
| v3. | .1f | | luainputenc.sty package | 65 |
| | General: \FBCaption@Separator | | Misplaced \fi for plain formats | |
| | changed when option | | | 20 |
| | CustomiseFigTabCaptions is set to | | New command \frquote for | |
| | false | 50 | imbedded or long French | 20 |
| | \FBprocess@options: Bug fix for the | | quotations | 38 |
| | beamer class: figure and table | | frenchb.lua: Added flag addgl which | |
| | captions are now consistent with | | must also be true when prev or | |
| | babel-french's documentation. | | next is not a char (i.e. \kern0 in | ~ 7 |
| | Pointed out by Denis Bitouzé | 63 | «\texttt{a}») | 27 |
| | Definition of \captionformat and | | Codes 0x13 and 0x14 added for | |
| | \captiondelim changed when | | French quotes in T1-encoding | |
| | option CustomiseFigTabCaptions is | | Look ahead when next is a kern (i.e. | |
| | set to false. | 63 | in « \texttt{a} ») | 27 |
| | \FBthinspace: \FBthinspace is no | | \frenchsetup: Codes $0x13$ and $0x14$ | |
| | longer a kern but a skip | | added for French quotes in | |
| | (babel-french adds a nobreak | | T1-encoding. Support for older | |
| | penalty before it) | 17 | versions of LuaTeX and XeTeX | |
| v3. | le , | | dropped | 58 |
| | \frenchsetup: Corrected typo: | | New options InnerGuillSingle, | |
| | SmallCapsFigTabcaptions instead | | EveryParGuill and EveryLineGuill to | |
| | of SmallCapsFigTabCaptions. | | control \frquote | 53 |
| | Pointed out by Céline Chevalier | 53 | v3.0c | |
| v3. | .1d | | General: babel-french requires | |
| | General: New section: issue warnings | | babel-3.9i | 14 |
| | if packages listings, numprint and | | Just load luatexbase.sty instead of | |
| | natbib are loaded too early or too | | luaotfload.sty with plain formats. | 20 |
| | late vs babel | 52 | No need to define \l@french as | |
| v3. | .1c | | \lang@french, babel.def (3.9j) | |
| | frenchb.lua: Previous bug fix for null | | takes care for this | 15 |
| | glues (v3.0c) did not work properly. | | frenchb.lua: Null glues should not | |
| | Fixed now (I hope!). Pointed out by | | trigger space insertion before high | |
| | Jacques André | 25 | ponctuation. Bug pointed out by | |
| v3. | .1b | | Benoit Rivet for the 'Istlisting' | |
| - | frenchb.lua: Add a check for null fid | | environment of the listings | |
| | in french punctuation (Tikz | | package | 25 |
| | \nullfont). Bug pointed out by | | \frenchsetup: New option | |
| | Paul Gaborit. | 24 | INGuillSpace | 53 |
| | . dui Gubonici | 27 | in Guinspace. | 23 |

| No list customisation when beamer | | for SMF classes | 50 |
|---------------------------------------|----|--|----|
| class is loaded. | 54 | Options processing completely | |
| v3.0b | | reorganised, now \babel@save | |
| General: frenchb.lua was not found by | | and\babel@savevariable are | |
| Lua function dofile (not kpathsea | | usable for French | 52 |
| aware). Call function kpse.find_file | | Support for options frenchb, francais, | |
| first, as suggested by Paul Gaborit. | 29 | canadien, acadian changed | 14 |
| Require luatexbase with LaTeX2e in | | Test \ifXeTeX changed to | |
| case fontspec has not been loaded | | \ifFBunicode and 'xltxtra' | |
| before babel | 20 | changed to 'fontspec' | 65 |
| v3.0a | | \CaptionSeparator: Remove | |
| General: \bbl@nonfrenchguillemets | | \FBCaption@SeparatorORI, use | |
| deleted, use \babel@save instead. | 37 | \babel@save instead | 49 |
| \LdfInit checks \captionsfrench | | \captionsfrench: Take advantage of | |
| instead of \datefrench to avoid a | | babel's \SetString commands for | |
| conflict with papertex.cls which | | captionnames | 47 |
| loads datetime.sty | 14 | \datefrench: Take advantage of | |
| french.cfg will be loaded (if found) | | babel's \SetString commands for | |
| instead of frenchb.cfg. NO NEED | | \datefrench. Doesn't work with | |
| for .cfg files in French anyway | 75 | Plain (yet?) | 40 |
| In Plain, provide a substitute for | | \descriptionFB: Added | |
| \PackageWarning and | | \listindentFB to \itemindent. | |
| \PackageInfo | 14 | Suggested by Denis Bitouzé | 69 |
| Merging of \captionsfrenchb, | | \extrasfrench: Take advantage of | |
| \captionsfrancais with | | babel's \babel@savevariable to | |
| \captionsfrench deleted in favor | | handle apostrophe's \lccode | 16 |
| of new babel 3.9 syntax | 49 | \FB@fg: Definitions of \FB@og and | |
| More informative, less TeXnical | | \FB@fg now depend on punctuation | |
| warning about \@makecaption | 50 | handling (LuaTeX / XeTeX / active). | 36 |
| New flag $\iffB@luatex@punct$ for | | \FBprocess@options: With | |
| 'high punctuation' management | | koma-script and memoir class, | |
| with LuaTeX engines | 17 | customise \captionformat and | |
| New handling of 'high punctuation' | | \captiondelim | 63 |
| through callbacks with LuaTeX | | \frenchsetup: New options | |
| engines | 20 | OldFigTabCaptions and | |
| No warning about \@makecaption | | CustomiseFigTabCaptions | 53 |