

A Babel language definition file for French

frenchb.dtx v4.1a, 2026-06-06

Daniel Flipo
daniel.flipo@free.fr

Contents

1	The French language	2
1.1	Basic interface	2
1.2	Customisation	5
1.2.1	\frenchsetup	5
1.2.2	Caption names	9
1.2.3	Figure and table captions	10
1.3	Hyphenation checks	11
1.4	Changes	12
2	The code	14
2.1	Initial setup	14
2.2	Punctuation	16
2.3	Commands for French quotation marks	29
2.4	Date in French	33
2.5	Extra utilities	34
2.6	Formatting numbers	36
2.7	Caption names	39
2.8	Checks about packages' loading order	41
2.9	Setup options: key/value stuff (l3keys)	42
2.10	French lists	54
2.10.1	Code shared by new and legacy lists	54
2.10.2	Code for legacy lists only	56
2.10.3	Code for new lists only	60
2.11	French indentation of sections	65
2.12	Formatting footnotes	65
2.13	Common settings for both new and old footnote's code	65
2.13.1	Code for the new footnotes templates	66
2.13.2	Code for legacy footnotes	66
2.14	Clean up and exit	71
3	Change History	72

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.

**This file `frenchb.dtx` is for LuaTeX,
See file `frenchb3.dtx`
for pdfTeX and XeTeX.**

Significant changes, listed in section 1.4, p. 12, have occurred in version 4.1a, please read section 1.4 if your documents have French as main language.

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

`babel-french` takes account of Babel’s *main language* defined as the *last* option at Babel’s loading or set through the `\DocumentMetadata{lang=...}` command. 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`.

¹The file described in this section has version number v4.1a and was last revised on 2026-06-06.

²*Always* use `french` as option name for the French language, former aliases `frenchb`, `français` and `acadian` have finally been removed as announced several years ago!

When French is Babel's main language, babel-french makes the following changes to the global layout, *both in French and in all other languages*³:

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".

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

1. French hyphenation patterns are made active;
2. 'high punctuation' characters (: ; ! ?) automatically add correct spacing in French; this is achieved using callbacks in Lua(La)TeX, these characters are no longer made "active";
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 command `\frquote{}`: `\frquote{some text}` will output « some text ». Former commands `\og` and `\fg` are kept for backward compatibility only: `\og some text \fg{}` produces the same output as `\frquote{some text}`.

If French quote characters are available on your keyboard, you can use them, the required nobreak spaces will be added automatically: you can type either « guillemets » or «guillemets»⁵ (with or without spaces) to get properly typeset French quotes. The same is true for the single guillemets ‹ and ›.

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.

The command `\NoEveryParQuote` is provided to locally suppress unwanted guillemets (typically when lists are embedded in `\frquote{}`), it must be used inside an environment or a group *only*.

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

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

⁵Or even «~guillemets~»...

`\frquote` is recommended to enter embedded quotations “à la française”; several variants are provided through options:

- 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`.
- 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`.

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: `\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`, `\iers`, `\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. Command `\bname{}` (boxed name) is provided to typeset family names: its argument will not be hyphenated except on explicit hyphens. `\bsc{}` (boxed small caps) is a variant that prints its argument in small capitals, it is meant for bibliographies, signatures, etc. Usage: `Albert~\bsc{Camus}`.
5. Commands `\primo`, `\secundo`, `\tertio` and `\quarto` print 1°, 2°, 3°, 4°. `\FrenchEnumerate{6}` prints 6°.
6. Abbreviations for “Numéro(s)” and “numéro(s)” (N° N^{os} n° and n^{os}) are obtained via the commands `\No`, `\Nos`, `\no`, `\nos`.
7. Two commands `\degre` and `\degres` are provided (for backward compatibility only) to typeset the symbol “degré”. Entering the raw character ° is easier.
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 thin space has to be added in lists and intervals: $(x,\,y)$, $[0,\,1]$. `\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 `l3keys` syntax. The command `\frenchsetup{}` is to appear in the preamble only (after loading Babel).

1.2.1 `\frenchsetup{options}`

`\frenchbsetup{}` and `\frenchsetup{}` 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 `l3keys` 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 by 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.

General Layout

`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 is useless unless French is the main language. This option can be used to avoid conflicts with classes or packages which customise lists or footnotes.

`IndentFirst=false (true*)`; set this option to `false` if you do not want babel-french 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 (the default), 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”.

`TocPartNameFull=false (true*)`; when true (default), parts are also numbered “Première partie”, “Deuxième partie”, in the table of contents. This works currently only for the memoir and koma-script classes (standard classes do not provide (yet?) any hook to customise the TOC). babel-french provides a command `\FBtocpartname{<Romannum>}` which returns the formatted string (“Deuxième partie” if the argument is “II”), it can be used with all classes; it is possible to add something (colon, dot,...) at the end of the string by redefining `\FBtocpartsep: \renewcommand*{\FBtocpartsep}{.}`. } adds a dot.

Lists Layout ⁶

`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:

<div>Text starting at ‘parindent’ \leq Leftmargin</div> <ul style="list-style-type: none"> — first item running on two lines or more... — first second level item on two lines... — next one... — second item... 	<div>Text starting at ‘parindent’ \leq Leftmargin</div> <ul style="list-style-type: none"> — first item running on two lines or more... — first second level item on two lines... — next one... — second item...
Default French layout	With <code>ListItemsAsPar=true</code>

`StandardListSpacing=true (false*)`⁷; babel-french usually 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.

⁶Two options, NosepItemize and NosepEnumerate, require the new templates, i.e. a `\DocumentMetadata{}` command.

⁷This 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`.

`NosepItemize=true (true*)`; turning this option to `false` slightly enlarges the vertical spaces included in itemize lists to match their counterparts in enumerate and description lists.

`NosepEnumerate=true (false*)`; turning this option to `true` suppresses any vertical space in enumerate and description lists, to match itemize lists.

`StandardItemLabels=true (false*)`; when set to `true` this option prevents babel-french from changing the labels in itemize lists in French.

`ItemLabels=\textbullet, \textendash, \ding{43}, (\textemdash*)`;
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} (\textemdash*)`

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

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

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

`StandardLists=true (false*)` forbids babel-french to customise any kind of list. The option `StandardLists=true` should be used in case of conflicts with classes or packages that customise lists too.

Footnotes layout

`FrenchFootnotes=false (true*)` reverts to the standard layout of footnotes. By default babel-french typesets leading numbers as ‘1. ’ instead of ‘1’, but does not change footnotes numbered with symbols (as in the `\thanks` command) or with letters (as in `minipages`).

`AutoSpaceFootnotes=false (true*)`; by default babel-french adds a (customisable) 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). The default definition of this thin space is:
`\newcommand*{\FBfnmarkspace}{\kern .5\fontdimen2\font}`

Punctuation

`AutoSpacePunctuation=false (true)`; with Lua(La)TeX changing this option to `false` doesn’t make sense as the LuaTeX callback takes care of special cases where no space should be added: URLs (`http://mysite`), in MS-DOS paths (`C:\Foo`) or in timetables (`10:55`). .

`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`).

`UnicodeNoBreakSpaces=true` (`false`); (experimental) this option should be set to `true` *only while converting LuaLaTeX files to HTML*. It ensures that non-breaking 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 `lwar` (v. 0.37 and up) is fully compatible with `babel-french` for translating PDFLaTeX or XeLaTeX files to HTML.

French quotes

`og=«`, `fg=»`; this option has been kept for backward compatibility but has no effect in Lua(La)TeX, it just prints a warning in the `.log` file.

`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 paragraph 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` (the 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 paragraph included in the inner quotation.

Numbers

`ThinSpaceInFrenchNumbers=true` (`false`); if `numprint` has been loaded with the `autolanguage` option, while typesetting numbers with the `\numprint{}` command, `\nphousandsep` is defined as a non-breaking space (`~`)⁸ in French;

⁸Actually without stretch nor shrink.

when set to `true`, this option redefines `\npthousandsep` as a thin space (`\FBthinspace`).

Figure and table captions

`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.).

`CustomiseFigTabCaptions=true (false)`; this option is now `false`, as the colon in captions is no printed properly in French with LuaTeX; turning it to `true` prints a warning and changes the caption’s separator into endash to mimic former versions of `babel-french`. Not recommended, see below (section 1.2.3) for hints to customise captions.

Superscripts

`FrenchSuperscripts=false (true)`; the `babel-french`’ `\up{}` command should print better superscripts than `\textsuperscript`; turning this option to `false` redefines `\up{}` as `\textsuperscript` (not recommended, except if `\up{}` fails).

`LowercaseSuperscripts=false (true)`; by default `babel-french` inhibits the up-casing of superscripts (for instance when they are moved to page headers). Making this option `false` will disable this behaviour (not recommended).

Warnings

`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}`. 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}`. The older syntax `\addto\captionsfrench{\def\proofname{Preuve}}` still works.

1.2.3 Figure and table captions

Most document classes use a colon as captions' separator in figures and tables like this: 'Figure 1: '. With 8-bits engines (TeX, pdfTeX) the colon was made active too late to ensure a proper space before it. The problem has vanished with LuaTeX. Therefore, the former patches provided in the legacy versions of babel-french have been dropped: `\CaptionSeparator` is no longer defined and the `CustomiseFigTabCaptions` option is now turned to `false` by default. Switching it to `true`, prints a Warning in the .log file and currently turns the captions' separator into an endash (this might change in the future).

Customisation of the captions' separator should be achieved outside babel-french; here are some hints for those who want to get the endash formerly provided by babel-french:

- with standard classes `article`, `book`, `report`, use `caption.sty`:
`\usepackage[labelsep=endash]{caption}`
- with the `memoir` class, just add:
`\captiondelim{\space\textendash\space}`
- with the koma-script classes, just add:
`\renewcommand{\captionformat}{\space\textendash\space}`
- with the beamer class, just add:
`\setbeamertemplate{caption label separator}[endash]`

Following the IN's recommendations, `\figurename` and `\tablename` should be typeset in small caps in French, babel-french provides the `SmallCapsFigTabCaptions` option (default is `true`) to do so. It 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 LuaLaTeX on the following file:

```
%% Test file for French hyphenation.
\documentclass[french]{article}
\usepackage{fontspec}          % mandatory for French
\setmainfont{NewCM10-Book}    % or erewhon, XCharter...
\usepackage{babel}
\begin{document}
\showhyphens{signal container événement algèbre}
\end{document}
```

- check the hyphenations proposed by T_EX in your log-file; in French you should get
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).

Possible mismatches: you get sig-nal con-tainer, this probably means that the hyphenation patterns you are using are for US-English, not for French.

1.4 Changes

What's new in version 4.1?

Options `acadian`, `canadian`, `frenchb` and `francais` are no longer supported, the only possible Babel's option for French is `french`; anyway `babel-french` is customisable enough to fit any French dialect, see `\fbsetup{}` p.42.

If French is *not* the document's main language, the layout remains unchanged, *i.e.* is unaffected by the changes introduced in this version.

This version aims at compatibility with the new templates introduced by the LaTeX Team for the PDF tagging project. These new templates are part of the 2026-06-01 LaTeX release.

As LuaTeX users may add a `\DocumentMetadata{ ... }` command (involving the new templates) or not (then legacy code is used), new code has been added to enable the customisation of lists and footnotes using the new templates.

When a `\DocumentMetadata{ ... }` command is detected, `french.ldf` automatically switches from legacy to new code. A warning is issued in case the LaTeX format is older than 2026-06-01.

The new templates have positive side-effects, `babel-french` becomes f.i. compatible with `enumitem` and `footmisc`.

What's new in version 4.0?

`babel-french` has been split into two files `frenchb3.dtx`, the legacy part, which is frozen, is meant for TeX, pdfTeX and XeTeX engines, and `frenchb.dtx` for LuaTeX *only*.

This has made possible to deeply simplify the current file `frenchb.dtx`, stripping old code which no longer makes sense with Lua(La)TeX.

Consequently, some `\frenchsetup{}` options have been modified, deleted or added:

- `AutoPunctuation` *should not be turned to* **false** with LuaLaTeX, a warning in `.log` file is issued if you do so; `frenchb.lua` now handles automatically the special cases (`2:1`, `\http://`, `C:\`, `!!`, etc.) requiring no space before high punctuation.
- `\frenchsetup{og=« , fg=»}` is useless, it just prints a warning; single and double French quotes (`«` and `»`, `‹` and `›`) automatically add the required spaces, it is still possible to inhibit this locally using `{\NoAutospacing }`.
- `CustomiseFigTabCaptions` is now **false**, it means that `babel-french` no longer customises the captions' separator (usually a colon); when forced to **true**, it issues a warning and turns the separator to an endash, see section 1.2.3 for better options.
- Options `OldFigTabCaptions`, `ListOldLayout` and `GlobalLayoutFrench` have been deleted (they emulated very old behaviours of `babel-french`).

- a new option `TocPartFullName` has been added to enhance `PartFullName`. When `true` (the default), the numbered parts are printed as “Première partie”, “Deuxième partie” in the table of contents too. This works currently only with the `memoir` and `koma-script` classes.

`frenchb.lua` has a new function `euphonic_t` to deal with compound words’ hyphenation like “va-t-on”, “semble-t-il” etc. A bug occurring in case `\spaceskip` is not null has been fixed.

Version 4.0b takes advantage of the new footnotes’ template (when it is available) to customise the footnotes’ layout. This should fix issue [932](#).

Version 4.0: commands `\StandardFootnotes` and `\FrenchFootnotes` are no longer available when neww templates are used: footnotes inside minipages are now numbered the standard way with both new and old interface.

What’s new in version 3.7?

The acadian dialect is no longer supported: `\usepackage[acadian]{babel}` prints a warning and uses `french` instead. Reason: I have never got feedback from anybody using them; anyway `babel-french` is customisable enough to fit any French dialect, see `\fbsetup{}` p.[42](#).

Version 3.7 is the frozen version in `frenchb3.dtx`.

What’s new in version 3.6?

Version 3.6a no longer loads the `keyval` package, replaced by core LaTeX commands (`13keys`). The thin space added before footnote’s calls is now customisable (suggested by Thomas Savary), the command’s name is `\FBfnmarkspace`.

2 The code

2.1 Initial setup

The macro `\LdfInit` takes care of preventing that this file is loaded more than once, checking the category code of the `@` sign, etc.

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

If the engine is not LuaTeX, revert to the version 3.7 of babel-french.

```
3 \let\bbl@tempa\relax
4 \ifnum\bbl@engine=\@ne \else \input french3.1df\relax
5 \let\bbl@tempa\endinput
6 \fi
7 \bbl@tempa
```

The rest of this file is *only for the LuaTeX engine*.

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

```
8 \def\fb@error#1#2{%
9   \begingroup
10    \newlinechar=`^^J
11    \def\{^^J(french.1df) }%
12    \errhelp{#2}\errmessage{\{#1^^J}%
13  \endgroup}
14 \def\fb@warning#1{%
15   \begingroup
16    \newlinechar=`^^J
17    \def\{^^J(french.1df) }%
18    \message{\{#1^^J}%
19  \endgroup}
20 \def\fb@info#1{%
21   \begingroup
22    \newlinechar=`^^J
23    \def\{^^J}%
24    \wlog{#1}%
25  \endgroup}
```

Quit if the LuaTeX engine is too old.

```
26 \ifnum\luatexversion<100
27   \ifx\PackageWarning\@undefined
28     \fb@warning{Please upgrade LuaTeX to version 1.1 or above!\}%
29     Aborting.}%
30   \else
31     \PackageWarning{french.1df}{Please upgrade LuaTeX
32       to version 1.1 or above!\MessageBreak
```

```

33      Aborting. Reported}%
34    \fi
35    \let\bbl@tempa\endinput
36 \fi
37 \bbl@tempa

```

Quit if Babel's version is less than 24.1.

```

38 \let\bbl@tempa\relax
39 \ifdefined\babeltags
40 \else
41   \let\bbl@tempa\endinput
42   \ifdefined\PackageError
43     \PackageError{french.ldf}
44       {babel-french requires babel v.24.1.\MessageBreak
45       Aborting here}
46     {Please upgrade Babel!}
47   \else
48     \fb@error{babel-french requires babel v.24.1.\
49       Aborting here}
50     {Please upgrade Babel!}
51   \fi
52 \fi
53 \bbl@tempa

```

Make sure that `\l@french` is defined (fallbacks are `\l@nohyphenation` if available or 0). `babel.def` (3.9i and up) defines `\l@<language>` also for eTeX, LuaTeX and XeTeX formats which set `\lang@<language>`.

```

54 \def\FB@nopatterns{%
55   \ifdefined\l@nohyphenation
56     \addialect\l@french\l@nohyphenation
57     \edef\bbl@nulllanguage{\string\language=nohyphenation}%
58   \else
59     \edef\bbl@nulllanguage{\string\language=0}%
60     \addialect\l@french0
61   \fi
62   \@nopatterns{French}}
63 \ifdefined\l@french \else \FB@nopatterns \fi

```

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

```

64 \providehyphenmins{french}{\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
68 \else
69   \ifdefined\@compatibilitytrue
70     \LaTeXtrue
71   \else
72     \PackageError{french.ldf}
73       {LaTeX-2.09 format is no longer supported.\MessageBreak
74       Aborting here}
75       {Please upgrade to LaTeX2e!}
76   \let\bbl@tempa\endinput
77 \fi
78 \fi
79 \bbl@tempa

```

\ifFBfrench True when the current language is French; will be set to true by `\extrasfrench` and to false by `\noextrasfrench`. Used in `\DecimalMathComma`.

```
80 \newif\ifFBfrench
```

\extrasfrench The macro `\extrasfrench` will perform all the extra definitions needed for the 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.

```

81 \def\extrasfrench{%
82   \FBfrenchtrue
83   \babel@savevariable{\lccode"27}%
84   \lccode"27="27
85   \babel@savevariable{\lccode"2019}%
86   \lccode"2019="2019
87   \bbl@frenchspacing
88 }
89 \def\noextrasfrench{\FBfrenchfalse \bbl@nonfrenchspacing}

```

2.2 Punctuation

With LuaTeX, callbacks are used to get rid of active punctuation.

\FBguillspace In French high punctuation characters (: ; ! ?) and guillemets require some space to be added before them (: ; ! ? » ›) or after them («, ‹). Following the I.N. specifications, **\FBcolonspace** the ‘:’ requires an inter-word space before it, the other three require just a thin space. So we define `\FBcolonspace` as `\space` (inter-word space) and `\FBthinspace` as an half inter-word space with no shrink nor stretch. `\FBguillspace` is meant for guillemets; it 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. These three commands are designed for basic French. Other French dialects can use different settings, see below.

A penalty will be added before these spaces to prevent line breaking.

```

90 \newcommand*{\FBguillspace}{\hskip .8\fontdimen2\font
91                               plus .3\fontdimen3\font
92                               minus .8\fontdimen4\font \relax}
93 \newcommand*{\FBcolonspace}{\space}
94 \newcommand*{\FBthinspace}{\hskip .5\fontdimen2\font \relax}

```

\FBsetspaces This command makes it easy to fine tune `\FBguillspace`, `\FBcolonspace` and `\FBthinspace` in French using the optional argument. It is meant for LaTeX2e *only* and can only be used in the preamble. Four mandatory arguments⁹: the first one is a *string* either "guill", "colon", or "thin", the last three are decimal numbers specifying *width*, *stretch* and *shrink* relative to the relevant *fontdimens*. For instance `\FBsetspaces{colon}{0.5}{0}{0}` defines `\FBcolonspace` as a thinspace as suggested by the "Guide du typographe Roman".

```

95 \ifLaTeXe
96   \newcommand*{\FBsetspaces}[5][french]{%
97     \@namedef{FB#2space}{\hskip #3\fontdimen2\font
98                           plus #4\fontdimen3\font
99                           minus #5\fontdimen4\font \relax}}
100   \@onlypreamble\FBsetspaces
101 \fi

```

We must set the LuaTeX tables for French after possible changes made in the preamble (`\frenchsetup{}` or `\FBsetspaces{}`) and before Babel switches to French at `\begin{document}`.

```

102 \ifLaTeXe
103   \AddToHookNext{env/document/before}{%
104     \set@glue@table{colon}%
105     \set@glue@table{thin}%
106     \set@glue@table{guill}%
107   }
108 \fi

```

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

```

109 \ifdefined\newluafunction\else
110   \input lualuatex.tex
111   \ifdefined\bbl@attr@locale \else \newattribute\bbl@attr@locale \fi
112   \newattribute\bbl@attr@locale
113 \fi

```

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

⁹The former optional `lang` argument no longer has any effect.

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

```

114 \newattribute\FB@spacing      \FB@spacing=\@ne
115 \newattribute\FB@addDPspace  \FB@addDPspace=\@ne
116 \newattribute\FB@ucsNBSP     \FB@ucsNBSP=\z@

```

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.

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.

```

117 \newcommand*{\set@glue@table}[1]{%
118   \directlua {
119     local s = token.get_meaning("FB#1space")
120     local t = FBget_glue(s)
121     if t then
122       FBsp.#1.gl = t
123       if FBsp.#1.gl[1] > 0.6 then
124         FBsp.#1.ch = 0xA0
125       elseif FBsp.#1.gl[1] > 0.2 then
126         FBsp.#1.ch = 0x202F
127       else
128         FBsp.#1.ch = 0x200B
129       end
130     else
131       texio.write_nl('term and log', '')
132       texio.write_nl('term and log',
133         '*** french.ldf warning: Unexpected syntax in FB#1space,')
134       texio.write_nl('term and log',
135         '*** french.ldf warning: LuaTeX table FBsp unchanged.')
136       texio.write_nl('term and log',
137         '*** french.ldf warning: Consider using FBsetspaces to ')
138       texio.write('term and log', 'customise FB#1space.')
139       texio.write_nl('term and log', '')
140     end
141   }%
142 }

```

143 </french>

frenchb.lua (env.) 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).

```
144 <*lua>
145 local FB_punct_thin =
146   {[string.byte("!")] = true,
147    [string.byte("?")] = true,
148    [string.byte(";")] = true}
149 local FB_punct_thick =
150   {[string.byte(":")] = true}
```

Managing spacing for ‘»’ and ‘›’ (U+203A) 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 ‘«’ and ‘‹’ 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 ‘«’ and ‘»’.

```
151 local FB_punct_left =
152   {[string.byte("!")] = true,
153    [string.byte("?")] = true,
154    [string.byte(";")] = true,
155    [string.byte(":")] = true,
156    [0x14] = true,
157    [0xBB] = true,
158    [0x203A] = true}
159 local FB_punct_right =
160   {[0x13] = true,
161    [0xAB] = true,
162    [0x2039] = true}
```

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

```
163 local FB_punct_null =
164   {[string.byte("!")] = true,
165    [string.byte("?")] = true,
166    [string.byte("[")] = true,
167    [string.byte("(")] = true,
```

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.

```
168   [0xA0] = true,
169   [0x202F] = true}
```

```

170 local FB_guil_null =
171   {[0xA0]          = true,
172    [0x202F]        = true}

```

Local definitions for nodes:

```

173 local new_node      = node.new
174 local copy_node     = node.copy
175 local node_id       = node.id
176 local HLIST         = node_id("hlist")
177 local TEMP           = node_id("temp")
178 local DISC           = node_id("disc")
179 local KERN           = node_id("kern")
180 local GLUE           = node_id("glue")
181 local GLYPH          = node_id("glyph")
182 local PENALTY        = node_id("penalty")
183 local nobreak        = new_node(PENALTY)
184 nobreak.penalty      = 10000
185 local nbspace        = new_node(GLYPH)
186 local insert_node_before = node.insert_before
187 local insert_node_after  = node.insert_after
188 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.

```

189 function FBget_glue(toks)
190   local t = nil
191   local f = string.match(toks,
192     "[^%w]hskip%s*([%d%.]*)%s*[^%w]fontdimen 2")
193   if f == "" then f = 1 end
194   if tonumber(f) then
195     t = {tonumber(f), 0, 0}
196     f = string.match(toks, "plus%s*([%d%.]*)%s*[^%w]fontdimen 3")
197     if f == "" then f = 1 end
198     if tonumber(f) then
199       t[2] = tonumber(f)
200       f = string.match(toks, "minus%s*([%d%.]*)%s*[^%w]fontdimen 4")
201       if f == "" then f = 1 end
202       if tonumber(f) then
203         t[3] = tonumber(f)
204       end
205     end
206   elseif string.match(toks, "[^%w]F?B?thinspace") then
207     t = {0.5, 0, 0}
208   elseif string.match(toks, "[^%w]space") then

```

```

209     t = {1, 1, 1}
210 end
211 return t
212 end

```

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

```

213 FBsp = {}
214 FBsp.thin = {}
215 FBsp.thin.gl = {.5, 0, 0}
216 FBsp.thin.ch = 0x202F
217 FBsp.colon = {}
218 FBsp.colon.gl = {1, 1, 1}
219 FBsp.colon.ch = 0xA0
220 FBsp.guill = {}
221 FBsp.guill.gl = {.8, .3, .8}
222 FBsp.guill.ch = 0xA0

```

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. \spaceskip, when not null, replaces the inter-word space (in raggedright env. f.i.). This is now taken into account.

```

223 local font_table = {}
224 local function new_glue_scaled (fid,table)
225   if fid > 0 and table[1] then
226     local fp = font_table[fid]
227     if not fp then
228       local ft = font.getfont(fid)
229       if ft then
230         font_table[fid] = ft.parameters
231         fp = font_table[fid]
232       end
233     end
234     local gl = new_node(GLUE,0)

```

\spaceskip is usually 0. In some circumstances (raggedright...) it gets > 0 and then replaces the inter-word space.

```

235     if fp then
236       local spaceskip
237       spaceskip = tex.get(tex.spaceskip)
238       local spskip = spaceskip.width
239       if spaceskip and spskip and spskip > 0 then
240         node.setglue(gl, table[1]*spskip , 0, 0)

```

```

241         else
242             node.setglue(gl, table[1]*fp.space,
243                         table[2]*fp.space_stretch,
244                         table[3]*fp.space_shrink)
245         end
246         return gl
247     else
248         return nil
249     end
250 else
251     return nil
252 end
253 end

```

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

```

254 local FBspacing      = luatexbase.attributes['FB@spacing']
255 local addDPspace     = luatexbase.attributes['FB@addDPspace']
256 local addGUILspace   = luatexbase.attributes['FB@addGUILspace']
257 local FBucsNBSP     = luatexbase.attributes['FB@ucsNBSP']
258 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). The FR constant (french) is defined by command \activate@luacode.

```

259 -- Main function (to be added to the kerning callback).
260 local function french_punctuation (head)

```

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

```

261     node.kerning(head)
262     for item in node.traverse_id(GLYPH, head) do
263         local lang = item.lang
264         local char = item.char

```

Skip glyphs not concerned by French kernings.

```

265         if lang == FR and (FB_punct_left[char] or FB_punct_right[char]) then
266             local fid = item.font
267             local attr = item.attr
268             local FRspacing = has_attribute(item, FBspacing)
269             FRspacing = FRspacing and FRspacing > 0
270             local FRucsNBSP = has_attribute(item, FBucsNBSP)
271             FRucsNBSP = FRucsNBSP and FRucsNBSP > 0

```

```

272         if FRspacing and fid > 0 then
273             if FB_punct_left[char] then
274                 local prev = item.prev
275                 local prev_id, prev_subtype, prev_char
276                 if prev then
277                     prev_id = prev.id
278                     prev_subtype = prev.subtype
279                     if prev_id == GLYPH then
280                         prev_char = prev.char
281                     end
282                 end

```

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.

```

283             local is_glue = prev_id == GLUE
284             local glue_wd
285             if is_glue then
286                 glue_wd = prev.width
287             end
288             local 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) precedes 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.

```

289         if FB_punct_thin[char] or FB_punct_thick[char] then
290             local SBDP = has_attribute(item, addDPspace)
291             local auto = SBDP and SBDP > 0
292             if FB_punct_thick[char] and auto then
293                 local next = item.next
294                 local next_id
295                 if next then
296                     next_id = next.id
297                 end
298                 if next_id and
299                     (next_id == GLYPH or next_id == DISC) then

```

```

300         auto = false
301     end
302 end
303 if auto then
304     if (prev_char and FB_punct_null[prev_char]) or
305        (is_glue and glue_wd <= 1) or
306        (prev_id == HLIST and prev_subtype == 3) or
307        (prev_id == TEMP) then
308         auto = false
309     end
310 end
311 local fbglue
312 local t
313 if FB_punct_thick[char] then
314     t = FBsp.colon.gl
315     nbospace.char = FBsp.colon.ch
316 else
317     t = FBsp.thin.gl
318     nbospace.char = FBsp.thin.ch
319 end
320 fbglue = new_glue_scaled(fid, t)

```

In case `new_glue_scaled` fails (returns nil) the node list remains unchanged.

```

321     if (realglue or auto) and fbglue then
322         if realglue then
323             head = remove_node(head,prev,true)
324         end
325         if (FRucsNBSP) then
326             nbospace.font = fid
327             nbospace.attr = attr
328             insert_node_before(head,item,copy_node(nbospace))
329         else
330             nobreak.attr = attr
331             fbglue.attr = attr
332             insert_node_before(head,item,copy_node(nobreak))
333             insert_node_before(head,item,copy_node(fbglue))
334         end
335     end

```

Let's consider '»' and '›' now (the only remaining glyphs of `FB_punct_left` class): we just have to remove any *glue* possibly preceeding them, then to insert the nobreak penalty and the proper *glue* (controlled by `\FBguillspace`). 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.

```

336     else
337         local addgl = (prev_char and

```



```

338             not FB_guil_null[prev_char])
339         or
340         (not prev_char and
341          prev_id ~= TEMP and
342          not (prev_id == HLIST and
343              prev_subtype == 3)
344         )

```

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

```

345         if is_glue and glue_wd <= 1 then
346             addgl = false
347         end
348         local t = FBsp.guill.gl
349         nbspace.char = FBsp.guill.ch
350         local fbglue = new_glue_scaled(fid, t)
351         if addgl and fbglue then
352             if is_glue then
353                 head = remove_node(head,prev,true)
354             end
355             if (FRucsNBSP) then
356                 nbspace.font = fid
357                 nbspace.attr = attr
358                 insert_node_before(head,item,copy_node(nbspace))
359             else
360                 nobreak.attr = attr
361                 fbglue.attr = attr
362                 insert_node_before(head,item,copy_node(nobreak))
363                 insert_node_before(head,item,copy_node(fbglue))
364             end
365         end
366     end

```

Similarly, for ‘«’ or ‘<’ (unique members 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*.

```

367         elseif FB_punct_right[char] then
368             local next = item.next
369             local next_id, next_subtype, next_char, nextnext, kern_wd
370             if next then
371                 next_id = next.id
372                 next_subtype = next.subtype

```

In case of coding «~ or <~ remove the penalty and the glue:

```

373         if next_id == PENALTY then
374             nextnext = next.next
375             if nextnext and nextnext.id == GLUE then
376                 head = remove_node(head,nextnext,true)
377                 head = remove_node(head,next,true)
378                 next = item.next
379                 if next then
380                     next_id = next.id
381                     next_subtype = next.subtype
382                     if next_id == GLYPH then
383                         next_char = next.char
384                     end
385                 end
386             end
387         end

```

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

```

388         if next_id == KERN then
389             kern_wd = next.kern
390             if kern_wd == 0 then
391                 nextnext = next.next
392                 if nextnext then
393                     next = nextnext
394                     next_id = nextnext.id
395                     next_subtype = nextnext.subtype
396                     if next_id == PENALTY then
397                         nextnext = next.next
398                         if nextnext and nextnext.id == GLUE then
399                             head = remove_node(head,next,true)
400                             head = remove_node(head,nextnext,true)
401                             next = item.next
402                             if next then
403                                 next_id = next.id
404                                 next_subtype = next.subtype
405                             end
406                         end
407                     end
408                 end
409             end
410         end
411         if next_id == GLYPH then
412             next_char = next.char
413         end
414     end
415     local is_glue = next_id == GLUE

```

```

416         if is_glue then
417             glue_wd = next.width
418         end

```

The addgl flag only depends on next_char and is_glue:

```

419         local addgl = (next_char and not FB_guil_null[next_char])
420                     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).

```

421         if is_glue and glue_wd == 0 then
422             addgl = false
423         end
424         local fid = item.font
425         local t = FBsp.guill.gl
426         nbspace.char = FBsp.guill.ch
427         local fbglue = new_glue_scaled(fid, t)
428         if addgl and fbglue then
429             if is_glue then
430                 head = remove_node(head, next, true)
431             end
432             if (FRucsNBSP) then
433                 nbspace.font = fid
434                 nbspace.attr = attr
435                 insert_node_after(head, item, copy_node(nbspace))
436             else
437                 nobreak.attr = attr
438                 fbglue.attr = attr
439                 insert_node_after(head, item, copy_node(fbglue))
440                 insert_node_after(head, item, copy_node(nobreak))
441             end
442         end
443     end
444 end
445 end
446 end
447 return head
448 end

```

This function deals with hyphenation of the euphonic-t in French: strings like “a-t-il”, “dira-t-elle”, “va-t-on”, “semble-t-il”, etc. may be hyphenated on the first ‘-’, never on the second one. It increases the hyphen penalty to 10000 on the second ‘-’.

```

449 local FB_t =
450   {[0x74]      = true,
451    [0x54]      = true}
452 local function euphonic_t (head)

```

```

453 for item in node.traverse_id(DISC, head) do
454   if item.subtype == 2 then
455     local next = item.next
456     local lang
457     local nnext
458     if next and next.id == GLYPH and FB_t[next.char] then
459       lang = next.lang
460       nnext = next.next
461     end
462     if lang == FR and nnext and
463        nnext.id == DISC and nnext.subtype == 2 then
464       nnext.penalty = 10000
465     end
466   end
467 end
468 return head
469 end
470 return french_punctuation, euphonic_t
471 </lua>

```

As a language tag is part of glyph nodes in LuaTeX, no more switching has to be done in `\extrasfrench`.

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`).

```

472 <*french>
473 \def\activate@luacode{%
474   \directlua{%
475     FR = \the\l@french ;
476     local path = kpse.find_file("frenchb.lua", "lua")
477     if path then
478       local f1, f2 = dofile(path)
479       luatexbase.add_to_callback("kerning",
480                                f1, "frenchb.french_punctuation")
481       luatexbase.add_to_callback("pre_linebreak_filter",
482                                f2, "frenchb.euphonic_t")
483     else
484       texio.write_nl('')
485       texio.write_nl('*****')
486       texio.write_nl('Error: frenchb.lua not found.')
487       texio.write_nl('*****')
488       texio.write_nl('')
489     end
490   }%
491 }

```

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

```
492 \newif\iffBAutoSpacePunctuation \iffBAutoSpacePunctuationtrue
```

`\AutoSpaceBeforeFDP` `\autospace@beforeFDP` and `\noautospace@beforeFDP` are internal commands. `\NoAutoSpaceBeforeFDP` `\autospace@beforeFDP` sets LuaTeX attribute `\FB@addDPspace` to 1 (true), while `\noautospace@beforeFDP` sets flag `\FB@addDPspace` to 0 (false). User commands `\AutoSpaceBeforeFDP` and `\NoAutoSpaceBeforeFDP` do the same and take care of the flag `\iffBAutoSpacePunctuation` in LaTeX.

Set the default now for Plain (done later for LaTeX).

```
493 \def\autospace@beforeFDP{\FB@addDPspace=\@ne \relax}
494 \def\noautospace@beforeFDP{\FB@addDPspace=\z@ \relax}
495 \ifLaTeXe
496   \def\AutoSpaceBeforeFDP{\autospace@beforeFDP
497     \iffBAutoSpacePunctuationtrue}
498   \def\NoAutoSpaceBeforeFDP{\noautospace@beforeFDP
499     \iffBAutoSpacePunctuationfalse}
500   \AtEndOfPackage{\AutoSpaceBeforeFDP}
501 \else
502   \let\AutoSpaceBeforeFDP\autospace@beforeFDP
503   \let\NoAutoSpaceBeforeFDP\noautospace@beforeFDP
504   \AutoSpaceBeforeFDP
505 \fi
```

`\NoAutoSpacing` The following command disables automatic spacing for high punctuation and French quote characters. It is meant to be used inside a group. `\NoAutoSpacing` must be inhibited in bookmarks. The faked definition of `\texorpdfstring` will be overwritten by `hyperref.sty`.

```
506 \providecommand\texorpdfstring[2]{#1}
507 \DeclareRobustCommand{\NoAutoSpacing}{%
508   \texorpdfstring{\FB@spacing=\z@}{}}%
509 }
```

2.3 Commands for French quotation marks

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

```
\guillemotright
\guilsinglleft 510 \ifLaTeXe
\guilsinglright 511 \else
\textquoteddblleft 512 \def\guillemotleft{{\char"00AB}}
\textquoteddblright 513 \def\guillemotright{{\char"00BB}}
514 \def\textquotedblleft{{\char"201C}}
515 \def\textquotedblright{{\char"201D}}
```

```

516 \def\guilsinglleft{{\char"2029}}
517 \def\guilsinglright{{\char"203A}}
518 \let\xspace\relax
519 \fi

```

\og The user level macros for quotation marks are named **\og** (“ouvrez guillemets”) and **\fg** (“fermez guillemets”). They are kept for backward compatibility only, as typing in « and » is much easier. Another option for typesetting quotes in French is to use the command **\frquote** (see below). If the current language is not French, **\og** and **\fg** provide default (English) quotes.

```

520 \newcommand*{\og}{\textquotedblleft}
521 \newcommand*{\fg}{\textquotedblright}
522 \texorpdfstring{\ifdim\lastskip>z@\unskip\fi\textquotedblright\xspace}%
523 \textquotedblright\xspace}%
524 }

```

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).

```

525 \newcommand*{\FB@og}{\texorpdfstring{\guillemotleft}%
526 \guillemotleft\xspace}}
527 \newcommand*{\FB@fg}{\texorpdfstring{\ifdim\lastskip>z@\unskip\fi
528 \guillemotright}{\space\guillemotright}}
529 \def\bbl@frenchguillemets{\def\og{\FB@og}%
530 \def\fg{\FB@fg\xspace}}
531 \addto\extrasfrench{\babel@save\og \babel@save\fg
532 \bbl@frenchguillemets}

```

\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...

```

533 \newcommand*{\@ogi}{\ifmmode\hbox{\guillemotleft}\else\guillemotleft\fi}
534 \newcommand*{\@fgi}{\ifmmode\hbox{\guillemotright}\else\guillemotright\fi}
535 \newcommand*{\ogii}{\ifFBInnerGuillSingle \guilsinglleft
536 \else \textquotedblleft
537 \fi}
538 \newcommand*{\fgii}{\ifFBInnerGuillSingle \guilsinglright
539 \else \textquotedblright
540 \fi}
541 \newcommand*{\@ogii}{\ifmmode\hbox{\ogii}\else\ogii\fi}
542 \newcommand*{\@fgii}{\ifmmode\hbox{\fgii}\else\fgii\fi}

```

and the needed technical stuff to handle options:

```

543 \newcount\FBguill@level
544 \newtoks\FBbold@everypar

```

For PlainTeX, the definition of `\FB@addquote@everypar` is borrowed from `csquotes.sty`.

```

545 \ifLaTeXe
546   \def\FB@addquote@everypar{%
547     \ifx\FBeveryparguill\FBguillnone
548       \else
549         \AddToHook{para/begin}[.]%
550           {\box\IndentBox\FBeverypar@quote\omitIndent}%
551       \fi
552   \def\FB@removequote@everypar{%
553     \ifx\FBeveryparguill\FBguillnone
554       \else \RemoveFromHook{para/begin}[.]%
555     \fi
556   \else
557     \def\FB@addquote@everypar{%
558       \let\FBnew@everypar\everypar
559       \FBold@everypar=\expandafter{\the\everypar}%
560       \FBnew@everypar={\the\FBold@everypar\FBeverypar@quote}%
561       \let\everypar\FBold@everypar
562       \let\FB@addquote@everypar\relax
563     }
564     \let\FB@removequote@everypar\relax
565   \fi
566   \newif\ifFBcloseguill \FBcloseguilltrue
567   \newif\ifFBInnerGuillSingle
568   \def\FBguillopen{\guillemotleft}
569   \def\FBguillclose{\guillemotright}
570   \let\FBguillnone\empty
571   \let\FBeveryparguill\FBguillopen
572   \let\FBeverylanguill\FBguillnone
573   \let\FBeverypar@quote\relax
574   \let\FBeverylanguill\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.

```

575 \ifLaTeXe
576   \DeclareRobustCommand\frquote{%
577     \texorpdfstring{\@ifstar{\FBcloseguillfalse\fr@quote}%
578                       {\FBcloseguilltrue \fr@quote}}%
579     {\bm@fr@quote}%
580   }
581   \newcommand{\bm@fr@quote}[1]{« #1 »}

```

```

582 \else
583   \newcommand\frquote[1]{\fr@quote{#1}}
584 \fi

```

The internal command `\fr@quote` takes one (long) argument: the quotation text.

```

585 \newcommand{\fr@quote}[1]{%
586   \leavevmode
587   \advance\FBguill@level by \@ne
588   \ifcase\FBguill@level
589   \or

```

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

```

590   \ifx\FBeveryparguill\FBguillnone
591     \let\FBeverypar@quote\relax
592   \else
593     \def\FBeverypar@quote{\FBeveryparguill}%
594     \FB@addquote@everypar
595   \fi
596   \@ogi #1\@fgi
597 \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.

```

598   \ifx\FBverylineguill\FBguillopen
599     \def\FBveryline@quote{\guillemotleft\FBguillspace}%
600     \localleftbox{\FBveryline@quote}%
601     \let\FBeverypar@quote\relax
602     \@ogi #1\ifFBcloseguill\@fgi\fi
603   \else
604     \ifx\FBverylineguill\FBguillclose
605       \def\FBveryline@quote{\guillemotright\FBguillspace}%
606       \localleftbox{\FBveryline@quote}%
607       \let\FBeverypar@quote\relax
608       \@ogi #1\ifFBcloseguill\@fgi\fi
609     \else

```

otherwise we eventually need to redefine `\FBeverypar@quote` for level 2 quotations:

```

610       \let\FBeverypar@quote\relax
611       \ifFBInnerGuillSingle
612         \ifx\FBeveryparguill\FBguillopen
613           \def\FBeverypar@quote{\guilsinglleft\FBguillspace}%
614         \fi
615         \ifx\FBeveryparguill\FBguillclose
616           \def\FBeverypar@quote{\guilsinglright\FBguillspace}%

```



```

617         \fi
618     \fi
619     \@ogii #1\@fgii
620 \fi
621 \fi
622 \else

```

Warn if \FBguill@level > 2:

```

623     \ifx\PackageWarning\@undefined
624         \fb@warning{\noexpand\frquote\space handles up to
625                     two levels.\ Quotation not printed.}%
626     \else
627         \PackageWarning{french.ldb}{%
628             \protect\frquote\space handles up to two levels.
629             \MessageBreak Quotation not printed. Reported}
630     \fi
631 \fi

```

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

```

632 \global\advance\FBguill@level by \m@ne
633 \ifcase\FBguill@level \global\let\FBeverypar@quote\relax
634     \FB@removequote@everypar
635 \or \gdef\FBeverypar@quote{\FBeveryparguill}%
636     \global\let\FBeveryl@ine@quote\empty
637     \ifx\FBeveryl@ineguill\FBguillnone\else\localleftbox{}\fi
638 \fi
639 }

```

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.

```

640 \newcommand*\NoEveryParQuote{%
641     \let\FBeveryparguill\FBguillnone
642     \let\FBeverypar@quote\relax
643 }

```

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). This new implement-
\datefrench ation relies on commands \SetString and \SetStringLoop, therefore requires Babel 3.10 or newer.

```

644 \StartBabelCommands*{french}{date}
645     [unicode, fontenc=TU EU1 EU2, charset=utf8]
646     \SetStringLoop{month#1name}{%

```

```

647 janvier, février, mars, avril, mai, juin, juillet, %
648 août, septembre, octobre, novembre, décembre}
649 \SetString\today{\FB@date{\year}{\month}{\day}}
650 \EndBabelCommands

```

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

```

651 \newcommand*{\FB@date}[3]{%
652   {\number#3}\ifnum1=#3{\ier}\fi\FBdatespace
653   \csname month\romannumeral#2name\endcsname
654   \ifx#1\@empty\else\FBdatespace\number#1\fi}}
655 \newcommand*{\FBdatebox}{\hbox}
656 \newcommand*{\FBdatespace}{\space}
657 \newcommand*{\frenchdate}{\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 '1^{er}'.

`\fup` When a font has built-in superscripts, the best thing to do is to just use them, otherwise `\fup` provides an alternative which typesets superscripts slightly smaller and higher. 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).

Options `FrenchSuperscripts` and `LowercaseSuperscripts` will be processed in `\FBprocess@options` to choose which version of `\up{}` will be used in the document.

```

658 \newif\ifFBFrenchSuperscripts \FBFrenchSuperscripttrue
659 \newif\ifFBLowercaseSuperscripts \FBLowercaseSuperscripttrue
660 \newdimen\FB@Mht
661 \ifLaTeXe
662   \AtEndOfPackage{\RequirePackage{scalefnt}}

```

`\fup` 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. These 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 using option `LowercaseSuperscripts=false` of `\frenchsetup{}`.

```

663 \newcommand*{\FBsupR}{-0.12}
664 \newcommand*{\FBsupS}{0.65}
665 \newcommand*{\FB@lc}[1]{\MakeLowercase{#1}}

```

```

666 \NewDocumentCommand\up{ m }{%
667   \settoheight{\FB@Mht}{M}%
668   \addtolength{\FB@Mht}{\FBsupR \FB@Mht}%
669   \addtolength{\FB@Mht}{-\FBsupS ex}%
670   \raisebox{\FB@Mht}{\scalefont{\FBsupS}{\FB@lc{#1}}}%
671 }

```

Poor man's definition of \up for Plain.

```

672 \else
673   \providecommand*\up[1]{\leavevmode\raise1ex\hbox{\sevenrm #1}}
674 \fi

```

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

```

\ier 675 \def\ieme{\up{e}\xspace}
\iere 676 \def\iemes{\up{es}\xspace}
\iemes 677 \def\ier{\up{er}\xspace}
\iers 678 \def\iers{\up{ers}\xspace}
\ieres 679 \def\iere{\up{re}\xspace}
        680 \def\ieres{\up{res}\xspace}

```

\FBmedkern Configurable kerns \FBmedkern, and \FBthickkern suitable for HTML translation.

```

\FBthickkern 681 \newcommand*\FBmedkern{\kern+.2em}
        682 \newcommand*\FBthickkern{\kern+.3em}

```

\primo Some support macros relying on \up for numbering, safe in bookmarks:

```

\fprimo 683 \newcommand*\FrenchEnumerate[1]{%
\ nos 684   #1\texorpdfstring{\up{o}\FBthickkern}{\textdegree\space}}
\Nos 685 \newcommand*\FrenchPopularEnumerate[1]{%
\ No 686   #1\texorpdfstring{\up{o})\FBthickkern}{\textdegree\space}}

```

\no Typing \primo should result in ‘°’ (except in bookmarks where \textdegree is used instead of o-superior),

```

687 \def\primo{\FrenchEnumerate1}
688 \def\secundo{\FrenchEnumerate2}
689 \def\tertio{\FrenchEnumerate3}
690 \def\quarto{\FrenchEnumerate4}

```

while typing \fprimo gives ‘°) (except in bookmarks where \textdegree is used instead),.

```

691 \def\fprimo{\FrenchPopularEnumerate1}
692 \def\fsecundo{\FrenchPopularEnumerate2}
693 \def\ftertio{\FrenchPopularEnumerate3}
694 \def\fquarto{\FrenchPopularEnumerate4}

```

Let's provide four macros for the common abbreviations of “Numéro”. In bookmarks ° is used instead of o-superior.

```

695 \DeclareRobustCommand*\No{%
696   \texorpdfstring{N\up{o}\FBmedkern}{N\textdegree\space}}

```

```

697 \DeclareRobustCommand*\no}{%
698   \texorpdfstring{n\up{o}\FBmedkern}{n\textdegree\space}}
699 \DeclareRobustCommand*\Nos}{%
700   \texorpdfstring{N\up{os}\FBmedkern}{N\textdegree\space}}
701 \DeclareRobustCommand*\nos}{%
702   \texorpdfstring{n\up{os}\FBmedkern}{n\textdegree\space}}

```

\bname These commands are meant to easily enter family names (in small capitals for the latter) while avoiding hyphenation. A `\kern0pt` is used instead of `\mbox` because `\mbox` would break microtype's font expansion; as a positive side effect, composed names (such as Dupont-Durand) can now be hyphenated on explicit hyphens.

```

703 \ifLaTeXe
704   \DeclareRobustCommand*\bname}[1]{%
705     \texorpdfstring{\leavevmode\begingroup\kern0pt #1\endgroup}{#1}%
706   }
707   \DeclareRobustCommand*\bsc}[1]{%
708     \texorpdfstring{\leavevmode\begingroup\kern0pt \scshape #1\endgroup}%
709     {\textsc{#1}}%
710   }
711 \else
712   \newcommand*\bname}[1]{\leavevmode\begingroup\kern0pt #1\endgroup}
713   \let\bsc\bname
714 \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`.

```

715 \providecommand*\textbackslash{{\char"005C}}
716 \providecommand*\textasciicircum{{\char"005E}}
717 \providecommand*\textasciitilde{{\char"007E}}
718 \providecommand*\degre{{}^\circ}
719 \providecommand*\degres{{}^\circ}
720 \providecommand*\boi{{\textbackslash}}
721 \providecommand*\circonflexe{{\textasciicircum}}
722 \providecommand*\tild{{\textasciitilde}}
723 \providecommand*\at{{@}}

```

2.6 Formatting numbers

\StandardMathComma As mentioned in the *T_EXbook* 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 *only* (no space added); `\StandardMathComma` switches back to the standard behaviour of the comma.

Unfortunately, `\newcount` inside `\if` breaks Plain formats.

```

724 \newif\ifFB@icomma
725 \newcount\mc@charclass
726 \newcount\mc@charfam
727 \newcount\mc@charslot
728 \newcount\std@mcc
729 \newcount\dec@mcc
730 \mc@charclass=\Umathcharclass`,
731 \newcommand*{\dec@math@comma}{%
732   \mc@charfam=\Umathcharfam`,
733   \mc@charslot=\Umathcharslot`,
734   \Umathcode`= \mc@charfam \mc@charslot
735 }
736 \newcommand*{\std@math@comma}{%
737   \mc@charfam=\Umathcharfam`,
738   \mc@charslot=\Umathcharslot`,
739   \Umathcode`= \mc@charclass \mc@charfam \mc@charslot
740 }
741 \let\dec@m@c\relax

```

If `\DecimalMathComma` is issued in the document body (when the current language is French) its effect will survive to a language switch, unless issued inside a group (see `\dec@m@c`'s expansion). The `icomma` inhibits `\DecimalMathComma`.

```

742 \newif\if@FBpreamble
743 \ifLaTeXe \@FBpreambletrue \fi
744 \newif\if@preamble@DecimalMathComma
745 \newcommand*{\DecimalMathComma}{%
746   \if@FBpreamble \@preamble@DecimalMathCommatrue
747   \else
748     \ifFB@icomma
749       \PackageWarning{french.ldf}{%
750         icomma package loaded, \protect\DecimalMathComma\MessageBreak
751         does nothing. Reported}%
752     \else
753       \ifFBfrench
754         \dec@math@comma
755         \let\dec@m@c\dec@math@comma
756         \expandafter\addto\csname extras\language\endcsname
757         {\dec@m@c}%
758       \fi
759     \fi
760   \fi
761 }
762 \newcommand*{\StandardMathComma}{%
763   \ifFB@icomma
764     \PackageWarning{french.ldf}{%
765       icomma package loaded, \protect\StandardMathComma\MessageBreak

```

```

766     does nothing.  Reported}%
767 \else
768   \ifFBfrench
769     \std@math@comma
770     \let\dec@m@c\relax
771   \fi
772 \fi
773 }

```

This is for Plain formats *only* (see below).

```

774 \ifLaTeXe\else
775   \addto\noextrasfrench{\std@math@comma}
776 \fi

```

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

```

777 \newcommand*{\nombre}[1]{\fb@warning{*** \noexpand\nombre
778                               no longer formats numbers\string! ***}}

```

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

```

779 \activate@luacode
780 \let\FBstop@here\relax
781 \def\FBclean@on@exit{%
782   \let\ifLaTeXe\iffalse
783   \let\LaTeXtrue\undefined
784   \let\LaTeXefalse\undefined
785   \let\FB@llc\loadlocalcfg
786   \let\loadlocalcfg@gobble}
787 \ifx\magnification\@undefined
788 \else
789   \def\FBstop@here{%
790     \FBclean@on@exit
791     \ldf@finish\CurrentOption
792     \let\loadlocalcfg\FB@llc
793     \endinput}
794 \fi
795 \FBstop@here

```

What follows is for LaTeX2e *only*: the next piece of code would break Plain formats. If issued in the preamble, `\DecimalMathComma` works globally on all parts of the document that are typeset in French. Can be canceled anytime by `\StandardMathComma`.

```

796 \AddToHookNext{env/document/before}{%
797   \@FBpreamblefalse
798   \IfPackageLoadedTF{icomma}%

```

```

799     {\FB@icommatrue
800     \if@preamble@DecimalMathComma
801         \FBWarning{icomma package loaded, \protect\DecimalMathComma%
802             \MessageBreak does nothing. Reported}%
803     \fi
804 }%
805 {\if@preamble@DecimalMathComma
806     \ifFB@mainlanguage@FR \dec@math@comma \fi
807     \let\dec@m@c\dec@math@comma
808     \addto\extrasfrench{\dec@m@c}%
809     \fi

```

The comma is reset to type `\mathpunct` when leaving French (only if the `icomma` package is not loaded).

```

810     \addto\noextrasfrench{\std@math@comma}%
811 }%
812 }

```

nombre We redefine `\nombre` for LaTeX2e. 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. 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.

```

813 \renewcommand*{\nombre}[1]{\Warning@nombre{#1}}
814 \newcommand*{\Warning@nombre}[1]{%
815     \ifdefined\numprint
816         \numprint{#1}%
817     \else
818         \FBWarning{%
819             \protect\nombre\space now relies on package numprint.sty,%
820             \MessageBreak add \protect
821             \usepackage[autolanguage]{numprint},\MessageBreak
822             see file numprint.pdf for more options.\MessageBreak
823             \protect\nombre\space called}%
824         \global\let\Warning@nombre\relax
825         {#1}%
826     \fi
827 }

828 \newcommand*{\FBthousandsep}{\kern \fontdimen2\font \relax}

```

2.7 Caption names

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

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

```

829 \StartBabelCommands*{french}{captions}
830     [unicode, fontenc=TU EU1 EU2, charset=utf8]
831     \SetString{\refname}{Références}
832     \SetString{\abstractname}{Résumé}
833     \SetString{\bibname}{Bibliographie}
834     \SetString{\chaptername}{Chapitre}
835     \SetString{\prefacename}{Préface}
836     \SetString{\appendixname}{Annexe}
837     \SetString{\contentsname}{Table des matières}
838     \SetString{\listfigurename}{Table des figures}
839     \SetString{\listtablename}{Liste des tableaux}
840     \SetString{\indexname}{Index}
841     \SetString{\glossaryname}{Glossaire}
842     \SetString{\figurename}{Figure}
843     \SetString{\tablename}{Table}
844     \SetString{\pagename}{page}
845     \SetString{\seename}{voir}
846     \SetString{\alsoname}{voir aussi}
847     \SetString{\enclname}{P.~J. }
848     \SetString{\ccname}{Copie à }
849     \SetString{\headtoname}{}
850     \SetString{\proofname}{Démonstration}
851     \SetString{\partnameord}{partie}
852     \SetString{\partfirst}{Première}
853     \SetString{\partsecond}{Deuxième}

```

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`.

```

854 \SetStringLoop{ordinal#1}{%
855     \frenchpartfirst,\frenchpartsecond,Troisième,Quatrième,%
856     Cinquième,Sixième,Septième,Huitième,Neuvième,Dixième,Onzième,%
857     Douzième,Treizième,Quatorzième,Quinzième,Seizième,%
858     Dix-septième,Dix-huitième,Dix-neuvième,Vingtième}
859 \AfterBabelCommands{%
860     \NewDocumentCommand\FB@emptypart{}{\def\thepart{\unskip}}%
861     \NewDocumentCommand\FB@partname{}{%
862         \ifFBPartNameFull
863             \csname ordinal\romannumeral\value{part}\endcsname\space
864             \partnameord\FB@emptypart
865         \else
866             Partie%
867         \fi}%
868     }
869     \SetString{\partname}{\FB@partname}
870 \EndBabelCommands

```


`\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`.

```
871 \providecommand*\FBfigtabshape{\scshape}
```

`\FBtocpartsep` New command `\FBtocpartname` to help printing “Première partie” instead of “Partie I” in the Table of Contents. It takes a Roman numeral as argument (the part number), and returns a formatted string (“Première partie” if the argument is “I”), unless option `TocPartNameFull` is set to `false`. It is used currently used only with the `memoir` and `koma-script` classes.

```
872 \ExplSyntaxOn
873 \NewExpandableDocumentCommand\FBlower{m}
874 {
875   \str_lowercase:n {#1}
876 }
877 \ExplSyntaxOff
878 \newcommand*\FBtocpartsep{\protect\space}
879 \NewDocumentCommand\FBtocpartname{m}{%
880   \ifFBTocPartNameFull
881     \csname ordinal\FBlower{#1}\endcsname\space
882     \partnameord \FBtocpartsep
883   \else
884     Partie%
885   \fi}%
```

2.8 Checks about packages’ loading order

`\FBWarning` `\FBWarning` is an alias of `\PackageWarning{french.lda}{#1}` which can be made silent by option `SuppressWarning`.

```
886 \newcommand{\FBWarning}[1]{\PackageWarning{french.lda}{#1}}
```

Package `beamerarticle` should be loaded before `babel-french` to avoid list’s conflicts, see p. 43.

```
887 \newif\if@FBwarning@beamerarticle
888 \IfPackageLoadedTF{beamerarticle}{\@FBwarning@beamerarticletrue}
889 \AddToHookNext{env/document/before}{%
890   \if@FBwarning@beamerarticle
891     \IfPackageLoadedTF{beamerarticle}{%
892       {\@FBwarning@beamerarticlefalse}%
893     }
894   \if@FBwarning@beamerarticle
895     \FBWarning{Please load the "beamerarticle" package\MessageBreak
896       BEFORE babel/french; reported}%
897   \fi
898 }
```

2.9 Setup options: key/value stuff (l3keys)

Check LaTeX2e version (support for l3keys required).

```
899 \NeedsTeXFormat{LaTeX2e}[2022-06-01]
```

All setup options are handled by command `\frenchsetup{}` based on the l3keys' `\SetKeys{}` command. A list of flags is defined beforehand and set to default values which will possibly be changed 'AtEndOfPackage' in case French is the main language. After this, `\frenchsetup{}` eventually modifies the preset values of these flags.

Some options processing occurs in `\frenchsetup{}`, *only for options explicitly set by `\frenchsetup{}`*, the rest is done just before `\begin{document}`.

We first define a collection of conditionals for global layout. Their default values are chosen so that `babel-french` does not change anything regarding the global layout. Some of them will be toggled 'AtEndOfPackage' according to the main language, then they will all be checked again just before `\begin{document}` in `\FBprocess@options` to fit `\frenchsetup{}` specifications and changes required by packages loaded after `Babel`.

```
900 \newif\ifFBShowOptions
901 \newif\ifFBStandardLayout           \FBStandardLayouttrue
902 \newif\ifFBStandardListSpacing      \FBStandardListSpacingtrue
903 \newif\ifFBListItemsAsPar
904 \newif\ifFBNosepItemize             \FBNosepItemizetrue
905 \newif\ifFBNosepEnumerate
906 \newif\ifFBStandardItemizeEnv       \FBStandardItemizeEnvtrue
907 \newif\ifFBStandardEnumerateEnv    \FBStandardEnumerateEnvtrue
908 \newif\ifFBStandardItemLabels       \FBStandardItemLabelstrue
909 \newif\ifFBStandardLists            \FBStandardListstrue
910 \newif\ifFBIndentFirst
911 \newif\ifFBFrenchFootnotes
912 \newif\ifFBAutoSpaceFootnotes
913 \newif\ifFBOriginalTypewriter
914 \newif\ifFBThinColonSpace
915 \newif\ifFBThinSpaceInFrenchNumbers
916 \newif\ifFBUnicodeNoBreakSpaces
917 \newif\ifBINGuillSpace
918 \newif\ifFBPartNameFull
919 \newif\ifFBTocPartNameFull
920 \newif\ifFBSmallCapsFigTabCaptions
921 \newif\ifFBCustomiseFigTabCaptions
922 \newif\ifFBSuppressWarning
```

If the new templates for lists and footnotes are available, `babel-french` will use them as far as possible.

```
923 \newif\ifFBnewlists
924 \newif\ifFBnewfootnotes
```

```

925 \IfDocumentMetadataTF
926   {\IfFormatAtLeastTF{2026-06-01}%
927     {\FBnewliststrue}%
928     {\def\warning@FBLaTeXFormat{%
929       \FBWarning{%
930         LaTeX Format 2026-06-01 is required for lists.\MessageBreak
931         Please update your LaTeX distribution.\MessageBreak
932         or remove the \protect\DocumentMetadata{} command.\MessageBreak
933         Otherwise babel-french will NOT customise lists.\MessageBreak
934         Reported}%
935       }%
936     }%
937   \FBnewfootnotesttrue
938 }{}

```

Some specific code for the koma-script classes.

```

939 \newif\ifFB@koma
940 \ifLaTeXe
941   \IfClassLoadedTF{scrartcl}{\FB@komatrue}{}
942   \IfClassLoadedTF{scrbook}{\FB@komatrue}{}
943   \IfClassLoadedTF{scrreprt}{\FB@komatrue}{}
944 \fi
945 \ifFB@koma
946   \ifdefined\partformat
947     \def\FB@partformat@fix{%
948       \ifFBPartNameFull
949         \babel@save\partformat
950         \renewcommand*{\partformat}{\partname}%
951       \fi
952     \addto\extrasfrench{\FB@partformat@fix}%
953   \fi
954 \fi

```

Some of the flags must be toggled when French is the main language. The latter (last option of Babel, stored in `\bbl@main@language`) will be known ‘AtEndOfPackage’. So we postpone the `\bbl@main@language` check until then.

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 2.8; a light customisation is compatible with the beamerarticle package.

```

955 \def\FB@french{french}
956 \newif\ifFB@mainlanguage@FR
957 \AtEndOfPackage{%
958   \ifx\bbl@main@language\FB@french \FB@mainlanguage@FRtrue \fi

```

```
959 \ifFB@mainlanguage@FR
```

beamer requires special tuning for legacy lists:

```
960 \ifFBnewlists
961 \FBStandardListSpacingfalse
962 \FBStandardItemizeEnvfalse
963 \FBStandardEnumerateEnvfalse
964 \FBStandardItemLabelfalse
965 \else
966 \IfClassLoadedTF{beamer}%
967 {\PackageInfo{french.ldf}{%
968 No list customisation for the beamer class,%
969 \MessageBreak reported}%
970 }%
971 {\IfPackageLoadedTF{beamerarticle}%
972 {\FBStandardItemLabelfalse
973 \FBStandardListSpacingfalse
974 \PackageInfo{french.ldf}{%
975 Minimal list customisation for the beamerarticle%
976 \MessageBreak package; reported}%
977 }%
}
```

Otherwise customise lists “à la française”:

```
978 {\FBStandardListSpacingfalse
979 \FBStandardItemizeEnvfalse
980 \FBStandardEnumerateEnvfalse
981 \FBStandardItemLabelfalse
982 }%
983 }
984 \fi
985 \FBIndentFirsttrue
986 \FBFrenchFootnotetrue
987 \FBAutoSpaceFootnotetrue
988 \FBPartNameFulltrue
989 \FBToCPartNameFulltrue
990 \FBStandardLayouttrue
991 \FBSmallCapsFigTabCaptiontrue
992 \fi
993 }
```

\frenchsetup Let’s define the keys to be used in \frenchsetup{ }.

```
994 \DeclareKeys[FBsetup]
995 {
996 ShowOptions.if = FBShowOptions ,
997 StandardLayout.default:n = {true} ,
998 StandardLayout.code = \FBStandardLayout@setup{#1} ,
}
```

999	StandardListSpacing.if	= FBStandardListSpacing	,
1000	ReduceListSpacing.ifnot	= FBStandardListSpacing	,
1001	NosepItemize.if	= FBNosepItemize	,
1002	NosepItemize.default:n	= {true}	,
1003	NosepItemize.code	= \FBNosepItemize@setup{#1}	,
1004	NosepEnumerate.if	= FBNosepEnumerate	,
1005	NosepEnumerate.code	= \FBNosepEnumerate@setup{#1}	,
1006	StandardItemizeEnv.if	= FBStandardItemizeEnv	,
1007	StandardEnumerateEnv.if	= FBStandardEnumerateEnv	,
1008	StandardItemLabels.if	= FBStandardItemLabels	,
1009	ItemLabels.store	= \FrenchLabelItem	,
1010	ItemLabeli.store	= \Frlabelitemi	,
1011	ItemLabelii.store	= \Frlabelitemii	,
1012	ItemLabeliii.store	= \Frlabelitemiii	,
1013	ItemLabeliv.store	= \Frlabelitemiv	,
1014	StandardLists.default:n	= {true}	,
1015	StandardLists.code	= \FBStandardLists@setup{#1}	,
1016	ListItemsAsPar.if	= FBListItemsAsPar	,
1017	IndentFirst.if	= FBIndentFirst	,
1018	FrenchFootnotes.if	= FBFrenchFootnotes	,
1019	AutoSpaceFootnotes.if	= FBAutoSpaceFootnotes	,
1020	AutoSpacePunctuation.if	= FBAutoSpacePunctuation	,
1021	OriginalTypewriter.if	= FBOriginalTypewriter	,
1022	ThinColonSpace.default:n	= {true}	,
1023	ThinColonSpace.code	= \FBThinColonSpace@setup{#1}	,
1024	ThinSpaceInFrenchNumbers.if	= FBThinSpaceInFrenchNumbers	,
1025	UnicodeNoBreakSpaces.if	= FBUnicodeNoBreakSpaces	,
1026	FrenchSuperscripts.if	= FBFrenchSuperscripts	,
1027	LowercaseSuperscripts.if	= FBLowercaseSuperscripts	,
1028	PartNameFull.if	= FBPartNameFull	,
1029	TocPartNameFull.if	= FBTocPartNameFull	,
1030	CustomiseFigTabCaptions.default:n	= {true}	,
1031	CustomiseFigTabCaptions.code	= \FBCustomiseFigTabCaptions@setup{#1}	,
1032	SmallCapsFigTabCaptions.default:n	= {true}	,
1033	SmallCapsFigTabCaptions.code	= \FBSmallCapsFigTabCaptions@setup{#1}	,
1034	SuppressWarning.default:n	= {true}	,
1035	SuppressWarning.code	= \FBSuppressWarning@setup{#1}	,
1036	INGuillSpace.default:n	= {true}	,
1037	INGuillSpace.code	= \FBINGuillSpace@setup{#1}	,
1038	InnerGuillSingle.if	= FBInnerGuillSingle	,
1039	EveryParGuill.default:n	= {open}	,
1040	EveryParGuill.code	= \FBEveryParGuill@setup{#1}	,
1041	EveryLineGuill.default:n	= {open}	,
1042	EveryLineGuill.code	= \FBEveryLineGuill@setup{#1}	,
1043	og.code	= \FBog@setup{#1}	,
1044	fg.code	= \FBfg@setup{#1}	,

```
1045 }
```

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 just before `\begin{document}` by `\FBprocess@options`. `\frenchsetup` can only be called in the preamble.

```
1046 \newcommand*{\frenchsetup}[1]{%
1047   \SetKeys[FBsetup]{#1}%
1048 }%
1049 \@onlypreamble\frenchsetup
```

Keep the former name `\frenchbsetup` working for compatibility.

```
1050 \let\frenchbsetup\frenchsetup
1051 \@onlypreamble\frenchbsetup
```

The following commands, defined with property `.code` in `DeclareKeys{}`, execute some post-treatment required to immediately take the flags value into account. The code is executed *only if* the corresponding option is *explicitly set* in `\frenchsetup{}`.

```
1052 \newcommand*{\FBsuppressWarning@setup}[1]%
1053   {\csname FBsuppressWarning#1\endcsname
1054     \ifFBsuppressWarning
1055       \renewcommand{\FBWarning}[1]{}%
1056     \fi
1057   }
1058 \newcommand*{\FBstandardLayout@setup}[1]%
1059   {\ifFB@mainlanguage@FR
1060     \csname FBstandardLayout#1\endcsname
1061   \else
1062     \FBWarning{Option 'StandardLayout' skipped:\MessageBreak
1063               French is *not* babel's last option.\MessageBreak
1064               Reported}%
1065   \fi
1066   \ifFBstandardLayout
1067     \FBstandardListSpacingtrue
1068     \FBstandardItemizeEnvtrue
1069     \FBstandardItemLabelstrue
1070     \FBstandardEnumerateEnvtrue
1071     \FBindentFirstfalse
1072     \FBfrenchFootnotesfalse
1073     \FBAutoSpaceFootnotesfalse
1074   \else
1075     \FBstandardListSpacingfalse
1076     \FBstandardItemizeEnvfalse
1077     \FBstandardItemLabelfalse
1078     \FBstandardEnumerateEnvfalse
1079     \FBindentFirsttrue
1080     \FBfrenchFootnotetrue
```

```

1081     \FBAutoSpaceFootnotesttrue
1082   \fi
1083 }
1084 \newcommand*{\FBnosepitemize@setup}[1]%
1085   {\csname FBnosepitemize#1\endcsname
1086   }
1087 \newcommand*{\FBnosepenumerate@setup}[1]%
1088   {\csname FBnosepenumerate#1\endcsname
1089   }
1090 \newcommand*{\FBstandardlists@setup}[1]%
1091   {\csname FBstandardlists#1\endcsname
1092     \ifFBstandardlists
1093       \FBstandardlistspacingtrue
1094       \FBstandarditemizeenvtrue
1095       \FBstandardenumerateenvtrue
1096       \FBstandarditemlabelstrue
1097     \else
1098       \FBstandardlistspacingfalse
1099       \FBstandarditemizeenvfalse
1100       \FBstandardenumerateenvfalse
1101       \FBstandarditemlabelsfalse
1102     \fi
1103   }
1104 \newcommand*{\FBthincolospace@setup}[1]%
1105   {\csname FBthincolospace#1\endcsname
1106     \ifFBthincolospace
1107       \renewcommand*{\FBcolonspace}{\FBthinspace}%
1108     \fi
1109   }
1110 \newcommand*{\FBsmallcapsfigtabcaptions@setup}[1]%
1111   {\csname FBsmallcapsfigtabcaptions#1\endcsname
1112     \ifFBsmallcapsfigtabcaptions
1113     \else
1114       \let\FBfigtabshape\relax
1115     \fi
1116   }
1117 \newcommand*{\FBCustomiseFigTabCaptions@setup}[1]%
1118   {\csname FBCustomiseFigTabCaptions#1\endcsname
1119     \ifFBCustomiseFigTabCaptions
1120       \FBWarning{Option CustomiseFigTabCaptions is *OBSOLETE*\MessageBreak
1121         The "caption" package is your friend,\MessageBreak
1122         see "frenchb.pdf" for more hints.\MessageBreak
1123         Trying to use endash though...\MessageBreak Reported}%
1124       \IfClassLoadedTF{memoir}%
1125         {\captiondelim{\space\textendash\space}}%
1126         {\ifFB@koma

```

```

1127         \renewcommand{\captionformat}{\space\textendash\space}%
1128     \else
1129         \IfClassLoadedTF{beamer}%
1130             {\setbeamertemplate{caption label separator}[endash]]%
1131             {\RequirePackage[labelsep=endash]{caption}}%
1132         \fi
1133     }%
1134 \fi
1135 }
1136 \newcommand*{\FBINGuillSpace@setup}[1]%
1137 {\csname FBINGuillSpace#1\endcsname
1138  \ifFBINGuillSpace
1139      \FBsetspaces{guill}{1}{1}{1}%
1140  \fi
1141 }
1142 \newcommand*{\FBEveryParGuill@setup}[1]%
1143 {\expandafter\let\expandafter
1144   \FBeveryparguill\csname FBguill#1\endcsname
1145   \ifx\FBeveryparguill\FBguillopen
1146   \else\ifx\FBeveryparguill\FBguillclose
1147       \else\ifx\FBeveryparguill\FBguillnone
1148           \else
1149               \let\FBeveryparguill\FBguillopen
1150               \FBWarning{Wrong value for `EveryParGuill':
1151                 try `open',\MessageBreak
1152                 `close' or `none'. Reported}%
1153           \fi
1154       \fi
1155   \fi
1156 }
1157 \newcommand*{\FBEveryLineGuill@setup}[1]%
1158 {\expandafter\let\expandafter
1159   \FBeverylineguill\csname FBguill#1\endcsname
1160   \ifx\FBeverylineguill\FBguillopen
1161   \else\ifx\FBeverylineguill\FBguillclose
1162       \else\ifx\FBeverylineguill\FBguillnone
1163           \else
1164               \let\FBeverylineguill\FBguillnone
1165               \FBWarning{Wrong value for `EveryLineGuill':
1166                 try `open',\MessageBreak
1167                 `close' or `none'. Reported}%
1168           \fi
1169       \fi
1170   \fi
1171 }

```

This option has been kept for backward compatibility but is no longer necessary as

the `\FB@addGUIspace` attribute for LuaTeX is set to one (true) by default. A warning is issued.

```

1172 \newcommand*{\FBog@setup}[1]{%
1173   \FBWarning{Options og=«, fg=» are not needed with LuaTeX.%
1174     \MessageBreak Automatic spacing of « » and < > is active.%
1175     \MessageBreak Use \protect\NoAutoSpacing\space (inside a group) to%
1176     \MessageBreak cancel spacing locally.\MessageBreak Reported}
1177 }
1178 \newcommand*{\FBfg@setup}[1]{}
```

`\FBprocess@options` `\FBprocess@options` will be executed just before `\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` are executed by Babel at `\begin{document}`, i.e. after `\FBprocess@options`.

```

1179 \newcommand*{\FBprocess@options}{%
```

Only for legacy lists: update flags (and inform) if a package customising lists has been loaded, currently: `enumitem`, `paralist`, `enumerate`.

```

1180   \ifFBnewlists
1181   \else
1182     \IfPackageLoadedTF{enumitem}{%
1183       \ifFBStandardItemizeEnv
1184       \else
1185         \FBStandardItemizeEnvtrue
1186         \PackageInfo{french.ldf}%
1187           {Setting StandardItemizeEnv=true for\MessageBreak
1188             compatibility with enumitem package,\MessageBreak
1189             reported}%
1190       \fi
1191       \ifFBStandardEnumerateEnv
1192       \else
1193         \FBStandardEnumerateEnvtrue
1194         \PackageInfo{french.ldf}%
1195           {Setting StandardEnumerateEnv=true for\MessageBreak
1196             compatibility with enumitem package,\MessageBreak
1197             reported}%
1198       \fi}{}%
1199     \IfPackageLoadedTF{paralist}{%
1200       \ifFBStandardItemizeEnv
1201       \else
1202         \FBStandardItemizeEnvtrue
1203         \PackageInfo{french.ldf}%
1204           {Setting StandardItemizeEnv=true for\MessageBreak
```

```

1205         compatibility with paralist package,\MessageBreak
1206         reported}%
1207     \fi
1208     \ifFBStandardEnumerateEnv
1209     \else
1210         \FBStandardEnumerateEnvtrue
1211         \PackageInfo{french.ldf}%
1212         {Setting StandardEnumerateEnv=true for\MessageBreak
1213         compatibility with paralist package,\MessageBreak
1214         reported}%
1215     \fi}%
1216 \IfPackageLoadedTF{enumerate}{%
1217     \ifFBStandardEnumerateEnv
1218     \else
1219         \FBStandardEnumerateEnvtrue
1220         \PackageInfo{french.ldf}%
1221         {Setting StandardEnumerateEnv=true for\MessageBreak
1222         compatibility with enumerate package,\MessageBreak
1223         reported}%
1224     \fi}%
1225 \fi

```

Options **FrenchFootnotes** and Option **AutoSpaceFootnotes** are handled now when new footnotes templates are available.

```

1226 \ifFBnewfootnotes
1227     \FB@newFootnotesSetup
1228 \fi

```

Option **SmallCapsFigTabCaptions**: `\figurename` and `\tablename` are printed in small caps (in French *only*), unless either **SmallCapsFigTabCaptions** is set to **false** or a class or package loaded defines `\FBfigtabshape` as `\relax`. As `\figurename` and `\tablename` should not include font commands, we customise `\fnum@figure` and `\fnum@table` when available (not in beamer.cls f.i.).

```

1229 \ifx\FBfigtabshape\relax
1230 \else
1231     \ifdefined\fnum@figure
1232         \let\fnum@figureORI\fnum@figure
1233         \renewcommand{\fnum@figure}{\ifFBfrench\FBfigtabshape\fi
1234                                     \fnum@figureORI}}%
1235     \fi
1236     \ifdefined\fnum@table
1237         \let\fnum@tableORI\fnum@table
1238         \renewcommand{\fnum@table}{\ifFBfrench\FBfigtabshape\fi
1239                                     \fnum@tableORI}}%
1240     \fi
1241 \fi

```

AutoSpacePunctuation, when true, adds a non-breaking space (in French only) before the four characters (;!?) if and only if spacing is required by French typographic rules. When **false**, these characters are left unchanged.

```

1242 \ifFBAutoSpacePunctuation
1243   \autospace@beforeFDP
1244 \else
1245   \noautospace@beforeFDP
1246   \FBWarning{AutoSpacePunctuation should *not* be set to false%
1247     \MessageBreak in LuaTeX, unless you know what you are doing.%
1248   \MessageBreak Reported}
1249 \fi

```

When **OriginalTypewriter** is set to **false** (the default), a *hook* is added to `\ttfamily`, to prevent addition of automatic spaces before the four active characters in computer code. `\rmfamily` and `\sffamily` need to be redefined also, as `\ttfamily` is not always used inside a group.

```

1250 \ifFBOriginalTypewriter
1251 \else
1252   \AddToHook{ttfamily}{\FB@spacing=\z@}%
1253   \AddToHook{rmfamily}{\FB@spacing=\@ne}%
1254   \AddToHook{sffamily}{\FB@spacing=\@ne}%
1255 \fi

```

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.

```

1256 \IfPackageLoadedTF{numprint}%
1257   {\ifnprt@autolanguage
1258     \providecommand*\npstylefrench{}%
1259     \ifFBThinSpaceInFrenchNumbers
1260       \renewcommand*\FBthousandsep{\FBthinspace}%
1261     \fi
1262     \g@addto@macro\npstylefrench{\npthousandsep{\FBthousandsep}}%
1263   \fi
1264 }{}%

```

FrenchSuperscripts: if **true**, try to take advantage of the `realscripts` package if it has been loaded. In case the current font has no real superscripts (`lmodern...`), `\fup` is preferred to `\fakesuperscript`. The star-form `\up*=\fup` is provided for fonts that lack some superior letters: f.i. Adobe Jenson Pro has no superiors for “c,f,g,j,k,p,q”.

```

1265 \ifFBFrenchSuperscripts
1266   \IfPackageLoadedTF{realscripts}%
1267     {\RenewDocumentCommand\fakesuperscript{m}{\fup{##1}}%
1268     \NewDocumentCommand\FB@up{m}{%

```

```

1269         \realsuperscript{\FB@lc{##1}}}%
1270     \DeclareRobustCommand*\up*{%
1271         \texorpdfstring{\@ifstar{\fup}{\FB@up}}}%
1272         {}%
1273     }%
1274 }
1275 {\DeclareRobustCommand*\up*{%
1276     \texorpdfstring{\@ifstar{\fup}{\fup}}}%
1277     {}%
1278 }%
1279 }
1280 \else

```

If **false**, use the standard command `\textsuperscript`. The star-form `\up*` remains defined as `\fup`. When `realscripts` has been loaded, `\textsuperscript` is `\realsuperscript`, uppercased argument would be printed as is (most fonts do not have superscripts for uppercased letters).

```

1281     \NewDocumentCommand\FB@up{m}{%
1282         \textsuperscript{\FB@lc{##1}}}%
1283     \DeclareRobustCommand*\up*{%
1284         \texorpdfstring{\@ifstar{\fup}{\FB@up}}}%
1285         {}%
1286     }%
1287 \fi

```

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

```

1288 \ifBLLowercaseSuperscripts
1289 \else
1290     \renewcommand*\FB@lc[1]{##1}%
1291 \fi

```

Option **UnicodeNoBreakSpaces** 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.

```

1292 \ifBUnicodeNoBreakSpaces
1293     \FB@ucsNBSP=\@ne
1294     \renewcommand*\FBmedkern{\char"202F\relax}%
1295     \renewcommand*\FBthickkern{\char"A0\relax}%
1296     \ifFBThinSpaceInFrenchNumbers
1297         \renewcommand*\FBthousandsep{\char"202F\relax}%
1298     \else
1299         \renewcommand*\FBthousandsep{\char"A0\relax}%
1300     \fi
1301 \fi

```

TocPartNameFull: for memoir and koma-script classes only. \KOMAOptions cannot be changed ‘AtBeginDocument’, executing \FBprocess@options just before is fine.

```

1302 \ifFB@koma
1303   \ifFBTocPartNameFull
1304     \KOMAOptions{toc=flat, numbers=nodotatend}%
1305     \renewcommand*{\addparttocentry}[2]{%
1306       \addtocentrydefault{part}{\FBtocpartname{##1}}{##2}}%
1307   \fi
1308 \fi
1309 \IfClassLoadedTF{memoir}%
1310   {\ifFBTocPartNameFull
1311     \renewcommand{\partnumberline}[1]{\FBtocpartname{##1}}%
1312   \fi
1313   }{}%

```

ShowOptions: if **true**, print the list of all options to the .log file.

```

1314 \ifFBShowOptions
1315   \GenericWarning{* }{%
1316     *** List of possible options for babel-french ***\MessageBreak
1317     [Default values between brackets when french is loaded *LAST*]%
1318     \MessageBreak
1319     ShowOptions [false]\MessageBreak
1320     StandardLayout [false]\MessageBreak
1321     PartNameFull [true]\MessageBreak
1322     TocPartNameFull [true]\MessageBreak
1323     IndentFirst [true]\MessageBreak
1324     ListItemsAsPar [false]\MessageBreak
1325     StandardListSpacing [false]\MessageBreak
1326     NosepItemize [true]\MessageBreak
1327     NosepEnumerate [false]\MessageBreak
1328     StandardItemLabels [false]\MessageBreak
1329     ItemLabels=\textendash, \textbullet,
1330     \protect\ding{43},... [\textendash]\MessageBreak
1331     ItemLabeli=\textendash, \textbullet,
1332     \protect\ding{43},... [\textendash]\MessageBreak
1333     ItemLabelii=\textendash, \textbullet,
1334     \protect\ding{43},... [\textendash]\MessageBreak
1335     ItemLabeliii=\textendash, \textbullet,
1336     \protect\ding{43},... [\textendash]\MessageBreak
1337     ItemLabeliv=\textendash, \textbullet,
1338     \protect\ding{43},... [\textendash]\MessageBreak
1339     StandardLists [false]\MessageBreak
1340     FrenchFootnotes [true]\MessageBreak
1341     AutoSpaceFootnotes [true]\MessageBreak
1342     AutoSpacePunctuation [true]\MessageBreak
1343     ThinColonSpace [false]\MessageBreak

```

```

1344 ThinSpaceInFrenchNumbers [false]\MessageBreak
1345 UnicodeNoBreakSpaces [false]\MessageBreak
1346 OriginalTypewriter [false]\MessageBreak
1347 INGuillSpace [false]\MessageBreak
1348 EveryParGuill=open, close, none [open]\MessageBreak
1349 EveryLineGuill=open, close, none
1350             [open in LuaTeX, none otherwise]\MessageBreak
1351 InnerGuillSingle [false]\MessageBreak
1352 SmallCapsFigTabCaptions [true]\MessageBreak
1353 FrenchSuperscripts [true]\MessageBreak
1354 LowercaseSuperscripts [true]\MessageBreak
1355 SuppressWarning [false]\MessageBreak
1356 \MessageBreak
1357 *****%
1358 \MessageBreak\protect\frenchsetup{ShowOptions}}
1359 \fi
1360 }

```

Just before `\begin{document}`, let's now process the remaining options, either not explicitly set by `\frenchsetup` or possibly modified by packages loaded after `babel-french`. We also have to provide an `\xspace` command in case the `xspace` package is not loaded. In some cases (package standalone, dtk,...) several `\documentclass{}` commands are allowed, so use `\AddToHookNext` instead of `\AddToHook` (all instances) as our stuff should only added to the first occurrence of `\documentclass{}` anyway.

```

1361 \AddToHookNext{env/document/before}{%
1362   \providecommand*\xspace{\relax}%
1363   \FBprocess@options
1364 }

```

2.10 French lists

2.10.1 Code shared by new and legacy lists

`\listindentFB` Let's define three dimens `\listindentFB`, `\descindentFB`, and `\labelwidthFB` to
`\descindentFB` customise lists' horizontal indentations. They are given silly negative values here
`\labelwidthFB` in order to eventually enable their customisation in the preamble. They will get
`\labelfullwidthFB` reasonable defaults later when entering French (see below `\setlistindentFB` and
`\setlabelitemsFB`) unless they have been customised before.

```

1365 \newdimen\listindentFB
1366 \setlength{\listindentFB}{-1pt}
1367 \newdimen\descindentFB
1368 \setlength{\descindentFB}{-1pt}
1369 \newdimen\labelwidthFB
1370 \setlength{\labelwidthFB}{-1pt}
1371 \newdimen\labelfullwidthFB

```

The next function will be included in `\setup@FBnewlists` or `\setup@FBlegacylists` which are executed in `\extrasfrench{} 'AtBeginDocument'`.

```

1372 \def\setlistindentFB{%
1373   \ifdim\listindentFB<\z@
1374     \ifdim\parindent=\z@
1375       \setlength{\listindentFB}{1.5em}%
1376     \else
1377       \setlength{\listindentFB}{\parindent}%
1378     \fi
1379   \fi
1380   \ifdim\descindentFB<\z@
1381     \setlength{\descindentFB}{\listindentFB}%
1382   \fi
1383 }

```

Let's 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 2.9)`.
- Vertical spacing between items, before and after the list, should be *null* with *no glue* added;
- The labels of itemize-lists are vertically aligned as shown p. 6.

`\FrenchLabelItem` Default labels for French itemize-lists —same label for all levels—, (already defined as empty by `\DeclareKey{}`):

```

\Frlabelitemi 1384 \renewcommand*{\FrenchLabelItem}{\textemdash}
\Frlabelitemii 1385 \renewcommand*{\Frlabelitemi}{\FrenchLabelItem}
\Frlabelitemiii 1386 \renewcommand*{\Frlabelitemii}{\FrenchLabelItem}
\Frlabelitemiv 1387 \renewcommand*{\Frlabelitemiii}{\FrenchLabelItem}
1388 \renewcommand*{\Frlabelitemiv}{\FrenchLabelItem}

```

The next function will be included in `\setup@FBnewlists` or `\setup@FBlegacylists` which are executed in `\extrasfrench{} 'AtBeginDocument'`.

```

1389 \def\setlabelitemsFB{%
1390   \let\labelitemi\Frlabelitemi
1391   \let\labelitemii\Frlabelitemii
1392   \let\labelitemiii\Frlabelitemiii
1393   \let\labelitemiv\Frlabelitemiv
1394 }

```

2.10.2 Code for legacy lists only

`\listFB` Vertical spacing in lists should be shorter in French texts than the defaults provided by LaTeX. Note that the easy way, just changing values of vertical spacing parameters 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 `Opt`, but will be noticeable when `\parskip` is *not* null.

```

1395 \iffBnewlists
1396 \else
1397   \let\listORI\list
1398   \let\endlistORI\endlist
1399   \newdimen\FB@pardim
1400   \def\FB@listVsettings{%
1401     \setlength{\topsep}{0.8ex plus 0.4ex minus 0.4ex}%
1402     \setlength{\partopsep}{0.4ex plus 0.2ex minus 0.2ex}%
1403     \setlength{\itemsep}{0.4ex plus 0.2ex minus 0.2ex}%
1404     \setlength{\parsep}{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 `\FB@pardim`.

```

1405     \FB@pardim=\parskip

```

If `\parskip` is not null, `\parsep` is set to `\parskip`, so paragraphs inside items will be preceded by the same vertical space as paragraphs located outside lists; the vertical skip before items (`\itemsep` + `\parsep`) doesn’t need to be enlarged.

```

1406     \ifdim\FB@pardim>\z@
1407       \addtolength{\topsep}{-\FB@pardim}%
1408       \addtolength{\partopsep}{\FB@pardim}%
1409       \setlength{\parsep}{\FB@pardim}%
1410       \addtolength{\itemsep}{-\FB@pardim}%
1411     \fi
1412   }
1413   \def\listFB#1#2{\listORI{#1}{\FB@listVsettings #2}}
1414   \let\endlistFB\endlistORI

```

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


```

1415 \def\FB@listHsettings{%
1416   \ifdim\labelwidthFB<\z@
1417     \settowidth{\labelwidthFB}{\FrenchLabelItem}%
1418   \fi
1419   \labelfullwidthFB=\labelwidthFB
1420   \advance\labelfullwidthFB by \labelsep
1421   \ifFBListItemsAsPar

```

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

```

1422   \leftmargini=\z@
1423   \itemindent=\labelfullwidthFB
1424   \advance\itemindent by \listindentFB
1425   \bbl@for\FB@dp {2, 3, 4, 5, 6}%
1426     {\csname leftmargin\romannumeral\FB@dp\endcsname =
1427       \listindentFB}%
1428   \else

```

Default layout: labels hanging into the list left margin.

```

1429   \bbl@for\FB@dp {1, 2, 3, 4, 5, 6}%
1430     {\csname leftmargin\romannumeral\FB@dp\endcsname =
1431       \labelfullwidthFB}%
1432   \advance\leftmargini by \listindentFB
1433   \itemindent=\z@

```

Same 'parindent' for paragraphs in lists' items (was null as in standard lists).

```

1434   \fi
1435   \listparindent=\parindent
1436   \leftmargin=\csname leftmargin%
1437     \ifnum\@listdepth=\@ne i\else ii\fi\endcsname
1438 }

```

\itemizeFB New environment for French itemize-lists.

\FB@itemizeVsettings \FB@itemizeVsettings suppresses all vertical spaces including glue unless option **StandardListSpacing** is set.

```

1439 \def\FB@itemizeVsettings{%
1440   \ifFBStandardListSpacing
1441   \else
1442     \FB@pardim=\parskip
1443     \ifdim\FB@pardim>\z@
1444       \setlength{\topsep}{-\FB@pardim}%
1445       \setlength{\partopsep}{\FB@pardim}%
1446       \setlength{\parsep}{\FB@pardim}%
1447       \setlength{\itemsep}{-\FB@pardim}%
1448     \else
1449       \setlength{\topsep}{\z@}%
1450       \setlength{\partopsep}{\z@}%

```

```

1451     \setlength{\parsep}{\z@}%
1452     \setlength{\itemsep}{\z@}%
1453     \fi
1454     \fi
1455 }

```

The definition of `\itemizeFB` follows the one of `\itemize` in standard LaTeX classes (see `ltlists.dtx`), vertical spaces are customised by `\FB@itemizeVsettings`.

```

1456 \def\itemizeFB{%
1457   \ifnum \@itemdepth >\thr@@\@toodeep\else
1458     \advance\@itemdepth by \@ne
1459     \edef\@itemitem{labelitem\romannumeral\the\@itemdepth}%
1460     \expandafter
1461     \listORI
1462     \csname\@itemitem\endcsname
1463     {\FB@itemizeVsettings
1464       \settowidth{\labelwidth}{\csname\@itemitem\endcsname}%
1465       \FB@listHsettings
1466     }%
1467   \fi
1468 }
1469 \let\enditemizeFB\endlistORI

```

`\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`.

```

1470 \def\enumerateFB{%
1471   \ifnum \@enumdepth >\thr@@\@toodeep\else
1472     \advance\@enumdepth by \@ne
1473     \edef\@enumctr{enum\romannumeral\the\@enumdepth}%
1474     \expandafter
1475     \list
1476     \csname label\@enumctr\endcsname
1477     {\FB@listHsettings
1478       \usecounter\@enumctr\def\makelabel##1{\hss\llap{##1}}}%
1479   \fi
1480 }
1481 \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 `\listindentFB + \labelfullwidthFB`.

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.

```

1482 \def\descriptionFB{%
1483   \list{}\{FB@listHsettings
1484     \labelwidth=\z@
1485     \ifFBListItemsAsPar
1486       \itemindent=\descindentFB
1487     \else
1488       \itemindent=-\leftmargin
1489       \ifnum\@listdepth=\@ne
1490         \ifdim\descindentFB=\z@
1491           \ifdim\listindentFB>\z@
1492             \leftmargini=\listindentFB
1493             \leftmargin=\leftmargini
1494             \itemindent=-\leftmargin
1495           \fi
1496         \else
1497           \advance\itemindent by \descindentFB
1498         \fi
1499       \fi
1500     \fi
1501     \let\makelabel\descriptionlabel
1502   }%
1503 }
1504 \let\enddescriptionFB\endlistORI
1505 \fi

```

`\setup@FBlegacylists` This command gathers the customisation of French lists when the new templates are not available: the legacy lists are redefined.

```

1506 \def\setup@FBlegacylists{%
1507   \setlistindentFB
1508   \ifFBStandardListSpacing
1509   \else \let\list\listFB \fi
1510   \ifFBStandardItemizeEnv
1511   \else \let\itemize\itemizeFB \fi
1512   \ifFBStandardItemLabels
1513   \else \setlabelitemsFB \fi
1514   \ifFBStandardEnumerateEnv
1515   \else \let\enumerate\enumerateFB \let\description\descriptionFB \fi
1516 }
1517 \def\warning@FBlegacylists{%
1518   \FBWarning{You are relying on the legacy list code.\MessageBreak
1519     There is nothing wrong with this, just be aware\MessageBreak
1520     that new lists templates are available and will\MessageBreak
1521     become the default sooner or later.\MessageBreak

```

```

1522      Adding \protect\DocumentMetadata{ ... } before the\MessageBreak
1523      \protect\documentclass{} command, enables the new\MessageBreak
1524      lists templates. Give them a try!\MessageBreak Reported}%
1525 }

```

2.10.3 Code for new lists only

`\setup@FBnewlists` Customization possibilities for the new lists templates:

```

1526 \iffBnewlists
1527   \newdimen\itemindentFB
1528   \newdimen\leftmarginiFB
1529   \newdimen\leftmarginiiFB
1530   \def\setup@FBnewlists{%
1531     \setlistindentFB

Compute \leftmarginiFB, \leftmarginiiFB and \itemindentFB for both possible lay-
outs (default and ListItemsAsPar).

1532     \ifdim\labelwidthFB<\z@
1533       \settowidth{\labelwidthFB}{\FrenchLabelItem}%
1534     \fi
1535     \labelfullwidthFB=\labelwidthFB
1536     \advance\labelfullwidthFB by \labelsep
1537     \iffBListItemsAsPar
1538       \leftmarginiFB=\z@
1539       \leftmarginiiFB=\listindentFB
1540       \itemindentFB=\labelfullwidthFB
1541       \advance\itemindentFB by \listindentFB
1542     \else
1543       \leftmarginiFB=\listindentFB
1544       \advance\leftmarginiFB by \labelfullwidthFB
1545       \leftmarginiiFB=\labelfullwidthFB
1546       \itemindentFB=\z@
1547     \fi
1548     \listparindent=\parindent

```

Let's define lists' variants with tight or nosep vertical spacing (6 levels).

```

1549   \DeclareInstance{block}{tight-list-1}{std}{%
1550     begin-vspace = 0.8ex plus 0.4ex minus 0.4ex ,
1551     begin-extra-vspace = 0.4ex plus 0.2ex minus 0.2ex ,
1552     para-vspace = 0.4ex plus 0.2ex minus 0.2ex ,
1553     item-vspace = 0.4ex plus 0.2ex minus 0.2ex ,
1554     left-margin:v = leftmarginiFB ,
1555   }%
1556   \DeclareInstance{block}{tight-list-2}{std}{%
1557     begin-vspace = 0.8ex plus 0.4ex minus 0.4ex ,
1558     begin-extra-vspace = 0.4ex plus 0.2ex minus 0.2ex ,

```

```

1559     para-vspace = 0.4ex plus 0.2ex minus 0.2ex ,
1560     item-vspace = 0.4ex plus 0.2ex minus 0.2ex ,
1561     left-margin:v = leftmarginiiFB ,
1562 }%
1563 \DeclareInstanceCopy{block}{tight-list-3}{tight-list-2}%
1564 \DeclareInstanceCopy{block}{tight-list-4}{tight-list-2}%
1565 \DeclareInstanceCopy{block}{tight-list-5}{tight-list-2}%
1566 \DeclareInstanceCopy{block}{tight-list-6}{tight-list-2}%
1567 %
1568 \DeclareInstance{block}{nosep-list-1}{std}{%
1569     begin-vspace = 0pt ,
1570     begin-extra-vspace = 0pt ,
1571     para-vspace = 0pt ,
1572     item-vspace = 0pt ,
1573     left-margin:v = leftmarginiFB ,
1574 }%
1575 \DeclareInstance{block}{nosep-list-2}{std}{%
1576     begin-vspace = 0pt ,
1577     begin-extra-vspace = 0pt ,
1578     para-vspace = 0pt ,
1579     item-vspace = 0pt ,
1580     left-margin:v = leftmarginiiFB ,
1581 }%
1582 \DeclareInstanceCopy{block}{nosep-list-3}{nosep-list-2}%
1583 \DeclareInstanceCopy{block}{nosep-list-4}{nosep-list-2}%
1584 \DeclareInstanceCopy{block}{nosep-list-5}{nosep-list-2}%
1585 \DeclareInstanceCopy{block}{nosep-list-6}{nosep-list-2}%

```

Itemize lists vertical spacing (std, tight or nosep):

```

1586 \ifFBStandardItemizeEnv
1587 \else
1588   \ifFBStandardListSpacing
1589   \else
1590     \ifFBNosepItemize
1591       \EditInstance{blockenv}{itemize}{%
1592         block-instance = nosep-list ,
1593       }%
1594     \else
1595       \EditInstance{blockenv}{itemize}{%
1596         block-instance = tight-list ,
1597       }%
1598     \fi
1599   \fi
1600   \EditInstance{list}{itemize-1}{%
1601     item-indent:v = itemindentFB ,
1602     label-width:v = labelfullwidthFB ,
1603   }%

```

```

1604     \EditInstance{list}{itemize-2}{%
1605         item-indent:v = itemindentFB ,
1606         label-width:v = labelfullwidthFB ,
1607     }%
1608     \EditInstance{list}{itemize-3}{%
1609         item-indent:v = itemindentFB ,
1610         label-width:v = labelfullwidthFB ,
1611     }%
1612     \EditInstance{list}{itemize-4}{%
1613         item-indent:v = itemindentFB ,
1614         label-width:v = labelfullwidthFB ,
1615     }%
1616 \fi

```

Labels for Itemize lists (4 levels):

```

1617 \ifFBStandardItemLabels
1618 \else
1619     \setlabelitemsFB
1620 \fi

```

Enumerate and description lists vertical spacing (std, tight or nosep):

```

1621 \ifFBStandardEnumerateEnv
1622 \else
1623     \ifFBStandardListSpacing
1624     \else
1625         \ifFBNosepEnumerate
1626             \EditInstance{blockenv}{enumerate}{%
1627                 block-instance = nosep-list ,
1628             }%
1629             \EditInstance{blockenv}{description}{%
1630                 block-instance = nosep-list ,
1631                 inner-instance = description ,
1632             }%
1633         \else
1634             \EditInstance{blockenv}{enumerate}{%
1635                 block-instance = tight-list ,
1636             }%
1637             \EditInstance{blockenv}{description}{%
1638                 block-instance = tight-list ,
1639                 inner-instance = description ,
1640             }%
1641         \fi
1642     \fi

```

Enumerate and description lists indentation (4 levels for enumerate, 6 levels for description):

```

1643 \EditInstance{list}{enumerate-1}{%
1644     item-indent:v = itemindentFB ,
1645     label-width:v = labelfullwidthFB ,
1646 }%
1647 \EditInstance{list}{enumerate-2}{%
1648     item-indent:v = itemindentFB ,
1649     label-width:v = labelfullwidthFB ,
1650 }%
1651 \EditInstance{list}{enumerate-3}{%
1652     item-indent:v = itemindentFB ,
1653     label-width:v = labelfullwidthFB ,
1654 }%
1655 \EditInstance{list}{enumerate-4}{%
1656     item-indent:v = itemindentFB ,
1657     label-width:v = labelfullwidthFB ,
1658 }%
1659 %
1660 \ifFBListItemsAsPar
1661     \leftmarginiFB=\z@
1662     \itemindentFB=\descindentFB
1663 \else
1664     \leftmarginiFB=\descindentFB
1665     \advance\leftmarginiFB by \labelfullwidthFB
1666     \itemindentFB=-\labelwidthFB
1667 \fi
1668 \EditInstance{list}{description-1}{%
1669     item-indent:v = itemindentFB ,
1670     label-width = 0pt ,
1671 }%
1672 \EditInstance{list}{description-2}{%
1673     item-indent:v = itemindentFB ,
1674     label-width = 0pt ,
1675 }%
1676 \EditInstance{list}{description-3}{%
1677     item-indent:v = itemindentFB ,
1678     label-width = 0pt ,
1679 }%
1680 \EditInstance{list}{description-4}{%
1681     item-indent:v = itemindentFB ,
1682     label-width = 0pt ,
1683 }%
1684 \EditInstance{list}{description-5}{%
1685     item-indent:v = itemindentFB ,
1686     label-width = 0pt ,
1687 }%
1688 \EditInstance{list}{description-6}{%

```

```

1689         item-indent:v = itemindentFB ,
1690         label-width = 0pt ,
1691     }%
1692 \fi

```

Quote (and verse) and quotation (and abstract) environments vertical spacing (standard or tight):

```

1693 \ifFBStandardListSpacing
1694 \else
1695     \EditInstance{block}{quote-1}{%
1696         begin-vspace = 0.8ex plus 0.4ex minus 0.4ex ,
1697         begin-extra-vspace = 0.4ex plus 0.2ex minus 0.2ex ,
1698         para-vspace = 0.4ex plus 0.2ex minus 0.2ex ,
1699     }%
1700     \DeclareInstanceCopy{block}{quote-2}{quote-1}%
1701     \DeclareInstanceCopy{block}{quote-3}{quote-1}%
1702     \DeclareInstanceCopy{block}{quote-4}{quote-1}%
1703     \DeclareInstanceCopy{block}{quote-5}{quote-1}%
1704     \DeclareInstanceCopy{block}{quote-6}{quote-1}%
1705     \EditInstance{block}{quotation-1}{%
1706         begin-vspace = 0.8ex plus 0.4ex minus 0.4ex ,
1707         begin-extra-vspace = 0.4ex plus 0.2ex minus 0.2ex ,
1708         para-vspace = 0.4ex plus 0.2ex minus 0.2ex ,
1709     }%
1710     \DeclareInstanceCopy{block}{quotation-2}{quotation-1}%
1711     \DeclareInstanceCopy{block}{quotation-3}{quotation-1}%
1712     \DeclareInstanceCopy{block}{quotation-4}{quotation-1}%
1713     \DeclareInstanceCopy{block}{quotation-5}{quotation-1}%
1714     \DeclareInstanceCopy{block}{quotation-6}{quotation-1}%
1715 \fi
1716 }
1717 \fi

```

\bbl@frenchlistlayout Nothing has to be done at language's switches regarding lists, except at the first switch in case French is the main language, then lists are set up once for all. There is nothing to do for lists in \noextrasfrench.

```

1718 \def\bbl@frenchlistlayout{%
1719     \ifFB@mainlanguage@FR
1720         \ifFBnewlists
1721             \setup@FBnewlists
1722             \let\setup@FBnewlists\relax
1723         \else

```

Warnings: no list customisation with new templates if LaTeX Format < 2026-06-01.

```

1724     \IfDocumentMetadataTF
1725     {\warning@FBLaTeXFormat

```



```

1726      \global\let\warning@FBLaTeXFormat\relax
1727      }%
1728      {\warning@FBlegacylists
1729      \global\let\warning@FBlegacylists\relax
1730      \setup@FBlegacylists
1731      \let\setup@FBlegacylists\relax
1732      }%
1733      \fi
1734      \fi}
1735 \addto\extrasfrench{\bbl@frenchlistlayout}

```

2.11 French indentation of sections

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

Indentation changes at language switches only if `IndentFirst=true` and French isn't the main language.

```

1736 \def\bbl@frenchindent{%
1737   \ifFBIndentFirst
1738     \ifFB@mainlanguage@FR\else\babel@save\@afterindentfalse\fi
1739     \let\@afterindentfalse\@afterindenttrue
1740     \@afterindenttrue
1741   \fi}
1742 \addto\extrasfrench{\bbl@frenchindent}

```

2.12 Formatting footnotes

The layout of footnotes is controlled by two flags `\ifFBAutoSpaceFootnotes` and `\ifFBFrenchFootnotes` which are set by options of `\frenchsetup{}` (see section 2.9). The layout of footnotes only depends on the main language (French or other). Two cases: new templates or legacy code.

2.13 Common settings for both new and old footnote's code

`\parindentFFN` The value of `\parindentFFN` will be redefined at the `\begin{document}`, as the maximum of `\parindent` and 1.8em (like `\footnotemargin`) *unless* it has been set in the preamble.

```

1743 \newdimen\parindentFFN
1744 \parindentFFN=\maxdimen

```

In French, the number preceding the footnote text is typeset in normal size (not superscript) followed by a dot and a space, both are customisable.

```

1745 \newcommand*{\dotFFN}{.}
1746 \newcommand*{\kernFFN}{\kern .5em}

```

\FBfnmarkspace Let's define a customisable thin space which will be added before footnote's call.

```
1747 \newcommand*{\FBfnmarkspace}{\kern .5\fontdimen2\font}
```

2.13.1 Code for the new footnotes templates

\FB@newFootnotesSetup \FB@newFootnotesSetup will be processed by \FBprocess@options just before \begin{document}.

```
1748 \ifFBnewfootnotes
1749   \providecommand*{\multiplefootnotemarker}{3sp}
1750   \newcommand*{\FBfnmark}{%
1751     \ifdim\lastkern=\multiplefootnotemarker
1752       \else \FBfnmarkspace \fi}
1753   \newcommand*{\FB@newFootnotesSetup}{%
1754     \ifdim\parindentFFN<\maxdimen
1755       \else
1756         \parindentFFN=\parindent
1757         \ifdim\parindentFFN<1.8em \parindentFFN=1.8em \fi
1758       \fi
1759     \ifFBFrenchFootnotes
1760       \NewSocketPlug{fntext/mark}{FBfnmark}
1761       {\hb@xt@ \parindentFFN{\hss\@thefnmark}\dotFFN\kernFFN}
1762       \AssignSocketPlug{fntext/mark}{FBfnmark}
1763       \AddToHook{cmd/maketitle/before}[.]
1764       {\AssignSocketPlug{fntext/mark}{default}}
1765       \AddToHook{cmd/maketitle/after}[.]
1766       {\AssignSocketPlug{fntext/mark}{FBfnmark}}
1767       \AddToHook{env/minipage/begin}[.]
1768       {\AssignSocketPlug{fntext/mark}{default}}
1769       \AddToHook{fntext/para}[.]{\parindent=\parindentFFN}
1770       \AddToHook{fntext/para}[.]{\localleftbox{}}
1771       \AddToHook{fntext/para}[.]{\let\FBeverypar@quote\relax}
1772     \fi
1773     \ifFBAutoSpaceFootnotes
1774       \AddToHook{fnmark/before}[.]{\FBfnmark}
1775     \fi
1776   }
1777 \fi
```

2.13.2 Code for legacy footnotes

\@makefntextFB We 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).

`\@makefntextFB`'s definition depends on the document's class.

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

```
1778 \ifFBnewfootnotes
1779 \else
1780   \newdimen\FBfnindent
```

Koma-script classes: they 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.

```
1781 \ifFB@koma
1782   \let\@makefntextORI\@makefntext
1783   \let\@@makefnmarkORI\@@makefnmark
```

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

```
1784   \deffootnote[\FBfnindent]{\z@}{\parindentFFN}%
1785       {\thefootnotemark\dotFFN\kernFFN}
1786   \let\@makefntextFB\@makefntext
1787   \let\@@makefnmarkFB\@@makefnmark
```

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

```
1788   \deffootnote[\parindentFFN]{\z@}{\parindentFFN}%
1789       {\textsuperscript{\thefootnotemark}}
1790   \let\@makefntextTH\@makefntext
1791   \let\@@makefnmarkTH\@@makefnmark
```

Restore the original definitions.

```
1792   \let\@makefntext\@makefntextORI
1793   \let\@@makefnmark\@@makefnmarkORI
1794 \fi
```

Definitions for the `memoir` class:

```
1795 \IfClassLoadedTF{memoir}
```

(see original definition in `memman.pdf`)

```
1796   {\newcommand{\@makefntextFB}[1]{%
1797     \def\footscript##1{##1\dotFFN\kernFFN}%
1798     \setlength{\footmarkwidth}{\FBfnindent}%
1799     \setlength{\footmarksep}{-\footmarkwidth}%
1800     \setlength{\footparindent}{\parindentFFN}%
```

```

1801      \makefootmark #1}%
1802    }{}

```

Definitions for the beamer class:

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

```

1803 \IfClassLoadedTF{beamer}
1804   {\def\@makefntextFB#1{%
1805     \def\insertfootnotetext{#1}%
1806     \def\insertfootnotemark{\insertfootnotemarkFB}%
1807     \usebeamertemplate***{footnote}}}%
1808   \def\insertfootnotemarkFB{%
1809     \usebeamercolor[fg]{footnote mark}%
1810     \usebeamerfont*{footnote mark}%
1811     \llap{\@thefnmark}\dotFFN\kernFFN}%
1812   }{}

```

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)!

```

1813 \providecommand*\insertfootnotemarkFB{%
1814   \parindent=\parindentFFN
1815   \rule\z@\footnotesep
1816   \setbox\@tempboxa\hbox{\@thefnmark}%
1817   \ifdim\wd\@tempboxa>\z@
1818     \llap{\@thefnmark}\dotFFN\kernFFN
1819   \fi}
1820 \providecommand\@makefntextFB[1]{\insertfootnotemarkFB #1}

```

The rest of `\@makefntext`’s customisation will be done at the `\begin{document}`: saving the original definition of `\@makefntext`, then redefining `\@makefntext` according to the value of flag `\ifFBFrenchFootnotes` (true or false).

\@footnotemark We will save the original definition of `\@footnotemark` at `\begin{document}` in order to include any customisation that packages might have done; we define a variant `\@footnotemarkFB` which just adds a (customisable) 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`.

`\@footnotemark`’s customisation: `\FBfnmarkspace` will be added before footnote’s call by `\@footnotemarkFB`.

```

1821 \def\@footnotemarkFB{\leavevmode\unskip\unkern
1822      \protect\FBfnmarkspace\@footnotemarkORI}%

```

The following command `\FB@legacyFootnoteSetup` will be processed just before `\begin{document}` by `\FBprocess@options`. It gathers the customisation of footnotes in French.

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

```
1823 \newcommand*{\FB@legacyFootnoteSetup}{%
```

When the `footnotebackref` package is loaded, `babel-french` will not customise `\@footnotetext` in order to keep back referencing working.

```
1824 \IfPackageLoadedTF{footnotebackref}%
1825 {\FBFrenchFootnotesfalse
1826 \FBWarning
1827 {footnotebackref package loaded.\MessageBreak
1828 babel-french will NOT customise footnotes;%
1829 \MessageBreak reported}}%
1830 {}}%
```

The `bigfoot` package deeply changes the way footnotes are handled. When `bigfoot` is loaded, we just warn the user that `babel-french` will not customise footnotes at all.

```
1831 \IfPackageLoadedTF{bigfoot}%
1832 {\FBWarning
1833 {bigfoot package in use.\MessageBreak
1834 babel-french will NOT customise footnotes;%
1835 \MessageBreak reported}}%
```

Otherwise, footnotes may be customised according to the `\frenchsetup{}` options.

```
1836 {\let\@footnotemarkORI\@footnotemark
1837 \ifFBAutoSpaceFootnotes
1838 \let\@footnotemark\@footnotemarkFB
1839 \fi
1840 \ifdim\parindentFFN<\maxdimen
1841 \else
1842 \parindentFFN=\parindent
1843 \ifdim\parindentFFN<1.5em \parindentFFN=1.5em \fi
1844 \fi
1845 \settowidth{\FBfnindent}{\dotFFN\kernFFN}%
1846 \addtolength{\FBfnindent}{\parindentFFN}%
1847 \let\@makefnmarkORI\@makefnmark}
```

Koma-script classes require a special treatment.

Definition of `\@makefnmark` for koma-script classes: running `makefnmarkORI` inside a group to reset `\localleftbox{}` and `\FBeverypar@quote` would mess up the layout of footnotes whenever the first mandatory argument of `\deffootnote{}` (used as `\leftskip`) is non-nil (default is 1em, 0pt in French).

```
1848 \ifFB@koma
1849 \let\@makefnmarkORI\@makefnmark}
```

```

1850 \long\def\@makefntext##1{%
1851 \localleftbox{}}%
1852 \let\FBeverypar@save\FBeverypar@quote
1853 \let\FBeverypar@quote\relax
1854 \ifFBFrenchFootnotes
1855 \ifx\footnote\thanks
1856 \let\@@makefnmark\@@makefnmarkTH
1857 \@makefntextTH{##1}
1858 \else
1859 \let\@@makefnmark\@@makefnmarkFB
1860 \@makefntextFB{##1}
1861 \fi
1862 \else
1863 \let\@@makefnmark\@@makefnmarkORI
1864 \@makefntextORI{##1}%
1865 \fi
1866 \let\FBeverypar@quote\FBeverypar@save
1867 \localleftbox{\FBeveryline@quote}}}%
1868 \else

```

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

```

1869 \IfClassLoadedTF{memoir}%
1870 {\ifFBFrenchFootnotes
1871 \setlength{\thanksmarkwidth}{\parindentFFN}%
1872 \setlength{\thanksmarksep}{-\thanksmarkwidth}%
1873 \fi
1874 }{}}%

```

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

```

1875 \IfClassLoadedTF{beamer}%
1876 {\ifFBFrenchFootnotes
1877 \ifdim\parindentFFN=1.5em\else
1878 \FBWarning{%
1879 \protect\parindentFFN\space is ineffective%
1880 \MessageBreak within the beamer class.%
1881 \MessageBreak Reported}%
1882 \fi
1883 \fi
1884 }{}}%

```

Definition of \@makefntext for all other classes:

```

1885 \long\def\@makefntext##1{%
1886 \localleftbox{}}%
1887 \let\FBeverypar@save\FBeverypar@quote
1888 \let\FBeverypar@quote\relax

```

```

1889         \ifFBFrenchFootnotes
1890             \@makefntextFB{##1}%
1891         \else
1892             \@makefntextORI{##1}%
1893         \fi
1894         \let\FBeverypar@quote\FBeverypar@save
1895         \localleftbox{\FBeveryline@quote}}}%
1896     \fi
1897 }%
1898 }

```

`\FB@legacyFootnoteSetup` is executed when entering French for the first time (at `\begin{document}`), after possible redefinitions made by `latex-lab` for tagging.

```

1899 \def\bbl@frenchfootnotes{%
1900     \ifFB@mainlanguage@FR
1901         \ifFBnewfootnotes
1902         \else
1903             \FB@legacyFootnoteSetup
1904             \let\FB@legacyFootnoteSetup\relax
1905         \fi
1906     \fi}
1907 \addto\extrasfrench{\bbl@frenchfootnotes}

```

The next two commands are provided only with legacy code.

`\StandardFootnotes` may be used locally (in minipages for instance), that's why the test `\ifFBFrenchFootnotes` is done inside `\@makefntext`.

```

1908 \newcommand*{\FrenchFootnotes}{\FBFrenchFootnotestruer}
1909 \newcommand*{\StandardFootnotes}{\FBFrenchFootnotesfalse}
1910 \fi

```

2.14 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.

```

1911 \FBclean@on@exit
1912 \ldf@finish\CurrentOption
1913 \let\loadlocalcfg\FB@llc
1914 </french>

```

3 Change History

Changes listed in reverse order (latest first) since v3.3.

v4.1a	quotes. 19
\FB@newFootnotesSetup: Fixes for compatibility with footmisc.sty. . . 66	New function 'euphonic_t' for hyphenation of compound words. Suggested by Thomas Savary. . . . 27
\FBprocess@options: Redefinition of \ttfamily replaced by a NFSS hook. 51	Take non null values of \spaceskip into account. Bug pointed out by Enrico Gregorio. 21
\frquote: \AddToHook{para-begin} replaces \everypar in LaTeX to handle \FBeverypar@quote. 30	v3.7a
\setup@FBnewlists: offers now customization for the new lists templates. 60	General: Support for acadian dropped. The files acadian.ldf, canadien.ldf, frenchb.ldf and francais.ldf load french.ldf and print a warning. 71
v4.0e	\frquote: Flag \ifFBcloseguill does not apply to \@fgii. 30
General: \AddToHook for env/document/ replaced by \AddToHookNext (all instances). . . 54	v3.6b
v4.0d	\NoAutoSpacing: \NoAutoSpacing must be inhibited in bookmarks. . 29
General: \FBprocess@options must be processed only once, reported by Herbert Voß for dtk.cls. 54	v3.6a
v4.0b	\@footnotemark: Allow customisation of the space added in \@footnotemarkFB. 68
General: \FB@legacyFootnoteSetup moved to \extrasfrench (tagging issue). 71	v3.5s
New \ifFBnewlists and \ifFBnewfootnotes to handle the new corresponding templates. . . 42	frenchb.lua: A ':' followed by '-' or a ligature should not trigger spacing. 23
\FBprocess@options: New code to customise footnotes when the new templates are available. 50	v3.5q
v4.0a	\listFB: Bug correction: \parsep should be related to \parskip and \listparindent to \parindent. . 56
General: New customisation for the Part entries in the toc. Suggested by Julien Labbé. 41	v3.5p
Option CustomiseFigTabCaptions is set to false. 42	\DecimalMathComma: \DecimalMathComma can again be used in the preamble for a global action. It now works as expected inside a group. 36
Options og and fg are now useless. 42	v3.5o
Removed obsolete compatibility options GlobalLayoutFrench, ListOldLayout, OldFigTabCaption 42	frenchb.lua: Opening guill.: look ahead when next is a penalty (nobreak space). 25
frenchb.lua: Codes 0x2039 and 0x203A added for French single	v3.5k
	\bsc: \bsc now relies on \texorpdfstring to be safe in

bookmarks.	36	Needed by <code>\frquote</code>	69
v3.5h		v3.5a	
<code>frenchb.lua</code> : Added glues and penalties should inherit attributes from the related punctuation character; this is mandatory for Lua-UL to underline and highlight them. Thanks to Marcel Krüger for providing the fix.	22	General: New optional layout for lists: lists' items can be typeset as paragraphs with indented labels while the default leaves the labels hanging into the left margin. . . .	56
v3.5g		v3.4a	
<code>frenchb.lua</code> : The kerning callback is a bit specific: adding code with <code>add_to_callback</code> actually deletes the legacy kerning as pointed out by Marcel Krüger on SE.	22	General: Shrink/stretch removed in <code>\FBthousandsep</code>	39
v3.5c		v3.3d	
General: Remove grouping inside <code>\@makefntext</code> , <code>\localleftbox</code> and <code>\FBeverypar@quote</code> saved and restored instead.	69	<code>frenchb.lua</code> : In default mode, for ‘:’ only, check if next node is a glyph or not. If it is, turn the ‘auto’ flag to false (avoids spurious spaces in URLs, MSDOS paths or 10:35). . . .	23
v3.5b		v3.3c	
General: Reset <code>\FBeverypar@quote</code> locally inside <code>\@makefntext</code> .		General: New command <code>\FBthousandsep</code> to customise numprint.	39
		Reset <code>\localleftbox</code> locally inside <code>\@makefntext</code> . Needed by <code>\frquote</code> with LuaTeX.	69