

# A Babel language definition file for French

frenchb.dtx v3.6a, 2024-05-24

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# 1 The French language

The file `frenchb.dtx`<sup>1</sup>, defines all the language definition macros for the French language.

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

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

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

`LaTeX-2.09` is no longer supported. Version 3.0 has been designed to be used only with `LaTeXe` and Plain formats based on `TeX`, `pdfTeX`, `LuaTeX` or `XeTeX` engines.

Changes between version 3.0 and v3.6a are listed in subsection [1.4 p. 12](#).

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}
```

<sup>2</sup>

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

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

When French is loaded as the last option of `Babel`, `babel-french` makes the following changes to the global layout, *both in French and in all other languages*<sup>3</sup>:

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](#));

<sup>1</sup>The file described in this section has version number v3.6a and was last revised on 2024-05-24.

<sup>2</sup>Always use `french` as option name for the French language, former aliases `frenchb` or `francais` are depreciated; expect them to be removed sooner or later!

<sup>3</sup>For each item, hooks are provided to reset standard `TeX` settings or to emulate the behavior of former versions of `babel-french` (see command `\frenchsetup{}`, section [1.2 p. 5](#)).

3. vertical spacing in general LaTeX lists is shortened;
4. footnotes are displayed “à la française”.
5. the separator following the table or figure number in captions is printed as ‘ – ’ instead of ‘:’; for changing this see [1.2.3 p. 10](#).

Regarding local typography, the command `\selectlanguage{french}` switches to the French language<sup>4</sup>, with the following effects:

1. French hyphenation patterns are made active;
2. ‘high punctuation’ characters (: ; ! ?) automatically add correct spacing<sup>5</sup> in French; this is achieved using callbacks in Lua(La)TeX or ‘XeTeXinterchar’ mechanism in Xe(La)TeX; with TeX’82 and pdf(La)TeX these four characters are made active in the whole document;
3. `\today` prints the date in French;
4. the caption names are translated into French (LaTeX only). For customisation of caption names see section [1.2.2 p. 10](#).
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: `\og some text\fg{}` is an alternative to `\frquote{some text}`.

If French quote characters are available on your keyboard, you can use them, to get proper spacing in LaTeX2e see option `og=<>, fg=>` p. [8](#).

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. [9](#).

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

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

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

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<sup>4</sup>`\selectlanguage{francais}` and `\selectlanguage{frenchb}` are no longer supported.

<sup>5</sup>Well, the automatic insertion may add unwanted spaces in some cases, for correction see `AutoSpacePunctuation` option and `\NoAutoSpacing` command p. [7](#).

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

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

2. `\frenchdate{<year>}{<month>}{<day>}` helps typesetting dates in French: `\frenchdate{2001}{01}{01}` will print 1<sup>er</sup> 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<sup>es</sup>). 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<sup>o</sup>, 2<sup>o</sup>, 3<sup>o</sup>, 4<sup>o</sup>. `\FrenchEnumerate{6}` prints 6<sup>o</sup>.
6. Abbreviations for “Numéro(s)” and “numéro(s)” (N° N<sup>os</sup> n° and n<sup>os</sup>) are obtained via the commands `\No`, `\Nos`, `\no`, `\nos`.
7. Two commands are provided to typeset the symbol for “degré”: `\degre` prints the raw character and `\degres` should be used to typeset temperatures (e.g., “20~\degres C” with a non-breaking space), or for alcohols’ strengths (e.g., “45\degres” with no space in French) or for angles in math mode.
8. In math mode the comma has to be surrounded with braces to avoid a spurious space being inserted after it, in decimal numbers for instance (see the `\TeXbook` 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 ‘1<sup>er</sup> 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 13keys 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 13keys syntax, boolean options (as `ShowOptions`) can be entered as `ShowOptions=true` or just `ShowOptions`, the `=true` part can be omitted.

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

`StandardLayout=true (false*)` forces `babel-french` not to interfere with the layout: no action on any kind of lists, first paragraphs of sections are not indented (as in English), no action on footnotes; it useless unless French is the main language. This option can be used to avoid conflicts with classes or packages which customise lists or footnotes.

`GlobalLayoutFrench=false (true*)` can only be used when French is the main language; setting it to `false` will emulate what prior versions of `babel-french` (pre-2.2) did: lists, and first paragraphs of sections will be displayed the standard way in other languages than French, and “à la française” in French (changing the layout inside a document is a bad practice imho). Note that the layout of footnotes is language independent anyway (see below `FrenchFootnotes` and `AutoSpaceFootnotes`).

**IndentFirst=false (true\*)**; set this option to **false** if you do not want 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”.

**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:

<p>Text starting at ‘parindent’ &lt;= Leftmargin — first item running on two lines or more... — first second level item on two lines... — next one... — second item...</p>	<p>Text starting at ‘parindent’ &lt;= Leftmargin — first item running on two lines or more... — first second level item on two lines... — next one... — second item...</p>
Default French layout	With <b>ListItemsAsPar=true</b>

**StandardListSpacing=true (false\*)**<sup>6</sup>; 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.

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

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

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

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<sup>6</sup>This 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**.

**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. This option is just a shorthand setting all four options **StandardListSpacing=true**, **StandardItemizeEnv=true**, **StandardEnumerateEnv=true** and **StandardItemLabels=true**.

**ListOldLayout=true (false)** ; starting with version 2.6a, the layout of lists has changed regarding leftmargins' sizes and default itemize label ('— instead of ‘–’ up to 2.5k). This option, provided for backward compatibility, displays lists as they were up to version 2.5k.

**FrenchFootnotes=false (true\*)** reverts to the standard layout of footnotes. By default `babel-french` typesets leading numbers as ‘1. ’ instead of ‘1’, but has no effect on footnotes numbered with symbols (as in the `\thanks` command). Two commands `\StandardFootnotes` and `\FrenchFootnotes` are available to change the layout of footnotes locally; `\StandardFootnotes` can help when some footnotes are numbered with letters (inside minipages for instance).

**AutoSpaceFootnotes=false (true\*)** ; by default `babel-french` adds a (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}`

**AutoSpacePunctuation=false (true)** ; in French, the user *should* input a space before the four characters ‘:;!?’ but as many people forget about it (even among native French writers!), the default behaviour of `babel-french` is to automatically typeset non-breaking spaces the width of which is either `\FBthinspace` (defaults to a thin space) before ‘;’ ‘!?’ or `\FBcolonspace` (defaults to `\space`) before ‘:’; the defaults follow the French ‘Imprimerie Nationale’s recommendations. This is convenient in most cases but can lead to addition of spurious spaces in URLs, in MS-DOS paths or in timetables (10:55) —this no longer occurs with `LuaTeX`—, except if they are typed in `\texttt` or `verbatim` mode. When the current font is a monospaced (typewriter) font, no spurious space is

added in that case <sup>7</sup>, so the default behaviour of `babel-french` in that area should be fine in most circumstances.

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

`ThinColonSpace=true (false)` changes the non-breaking space added before the colon ‘`:`’ to a thin space, so that the same amount of space is added before any of the four ‘high punctuation’ characters. The default setting is supported by the French ‘Imprimerie Nationale’.

`OriginalTypewriter=true (false)` prevents any customisation of `\ttfamily` and `\texttt{}` in French. This option should only be used to ensure backward compatibility. The current default behaviour is to switch off any addition of space before high punctuation with typewriter fonts (e.g. verbatim).

`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 `lwarw` (v. 0.37 and up) is fully compatible with `babel-french` for translating PDFLaTeX or XeLaTeX files to HTML.

`og=<, fg=>`; when guillemets characters are available on the keyboard (through a compose key for instance), it is nice to use them instead of typing `\frquote{}`. This option tells `babel-french` which characters are opening and closing French guillemets (they depend on the input encoding), then you can type either `< guillemets >` or `<>guillemets`<sup>9</sup> (with or without spaces) to get properly typeset French quotes. This option works with *LuaLaTeX*, *XeLaTeX* and with *pdfLaTeX* (default encoding: `utf8`); with *pdflatex* other 8-bits encodings (`latin1`, `latin9`, `ansinew`, `applemac`, ...) are also supported when properly declared with `inputenc`.

`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.

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

<sup>8</sup>Actually, this is needed only with the *XeTeX* and *pdfTeX* engines. *LuaTeX* no longer inserts any space in strings like `http://mysite, C:\Foo, 10:55...`

<sup>9</sup>Or even `<>guillemets~>`, but only with *LuaTeX*.

**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.

**ThinSpaceInFrenchNumbers=true (false)**; if `numprint` has been loaded with the `autolanguage` option, while typesetting numbers with the `\numprint{}` command, `\npthousandsep` is defined as a non-breaking space (~)<sup>10</sup> in French; when set to true, this option redefines `\npthousandsep` as a thin space (`\FBthinspace`).

**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=false (true\*)**; when set to **false** the default separator (colon) is used instead of `\CaptionSeparator`. Anyway, `babel-french` tries hard to insert a proper space before it in French and warns if it fails to do so.

**OldFigTabCaptions=true (false)** is to be used *only* when figures' and tables' captions must be typeset as with pre 3.0 versions of `babel-french` (with `\CaptionSeparator` in French and colon otherwise). Intended for standard LaTeX classes only.

**FrenchSuperscripts=false (true)**; then `\up=\textsuperscript`. (option added in version 2.1). Should only be made **false** to recompile documents written before 2008 without changes: by default `\up` now relies on `\fup` designed to produce better looking superscripts.

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<sup>10</sup>Actually without stretch nor shrink.

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

**SUPPRESSWARNING=true (false)**; can be turned to `true` if you are bored with `babel-french`'s warnings; use this option as *first* option of `\frenchsetup{}` to cancel warnings launched by other options.

**Options' order** – Please remember that options are read in the order they appear in the `\frenchsetup{}` command. Someone wishing that `babel-french` leaves the layout of lists and footnotes untouched but caring for indentation of first paragraph of sections should choose `\frenchsetup{StandardLayout, IndentFirst}`. The reverse order `\frenchsetup{IndentFirst, StandardLayout}` would lead to option `IndentFirst` being overwritten by `StandardLayout`.

### 1.2.2 Caption names

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

### 1.2.3 Figure and table captions

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

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

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

Three options are provided to customise figure and table captions:

- `CustomiseFigTabCaptions` is set to `true` when French is the main language (hence separator = ' – ') and to `false` otherwise (hence separator = ': ' with a proper space before the colon in French if possible); toggle this option if needed;

- the second option, `OldFigTabCaptions`, can be set to `true` to print figures' and tables' captions as they were with versions pre 3.0 of `babel-french` (using `\CaptionSeparator` in French and colon in other languages); this option only makes sense with the standard LaTeX classes `article`, `report` and `book`;
- the last option, `SmallCapsFigTabCaptions`, can be set to `false` to typeset `\figurename` and `\tablename` in French as “Figure” and “Table” rather than in small caps (the default).

### 1.3 Hyphenation checks

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

- run pdfTeX on the following file:

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

- check the hyphenations proposed by TeX in your log-file; in French you should get with both 7-bit and 8-bit encodings  
`si-gna-l contai-ner \'eve-ne-men-t al-g\`e-bre.`  
Do not care about how accented characters are displayed in the log-file, what matters is the position of the ‘-’ hyphen signs *only*.

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

Frequent mismatches:

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

## 1.4 Changes

### What's new in version 3.6?

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

### What's new in version 3.5?

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

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

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

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

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

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

Version 3.5k is a cleanup release:

- the translations in French of `\figurename` and `\tablename` no longer hold font changing commands (switch to small caps), the font switch has been moved to `\fnum@figure` and `\fnum@table` as suggested by Axel Sommerfeldt.
- Package `caption` can now be loaded whether before or after `babel`, indifferently.
- `\pdfstringdefDisableCommands` is no longer used: as suggested by the LaTeX3 team, all commands requiring special care in `hyperref`'s bookmarks are now defined using `\textorpdfstring{}{}`.

Version 3.5n introduces a new command `\bname{}` (an alternative to `\bsc{}`).

Version 3.5q corrects a bug in lists layout: `\listparindent` (formely `0pt`) is defined as `\parindent` and if `\parskip > 0pt`, `\parsep` is now defined as `\parskip`. This ensures that paragraphs included in lists are now visible. The former behaviour can be recovered by adding `\parskip=0pt`, `\parindent=0pt` *inside* the list environment. Version 3.5r is compatible with `ucharclasses` which is now loaded by `fontsetup` with the XeTeX engine. The `frenchb.ins` file is no longer needed to extract the `.ldf` files from `frenchb.dtx` (see `README.md`).

## What's new in version 3.4?

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

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

A new command `\FBsetspace`s has been added for easy customising of spacing before high punctuation and inside quotes independently for `french` and `acadian`, see p. 19.

Version 3.4 requires eTeX and LuaTeX 1.0.4 or newer.

## What's new in version 3.3?

In version 3.3d the automatic insertion of non-breaking spaces before the colon character has been improved *with engine LuaTeX only*: a spurious space is no longer inserted in strings like `http://mysite`, `C:\Program Files` or `10:55`. Unfortunately, my attempts to do the same with XeTeX or pdfTeX were unsuccessful.

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

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

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

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

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

## 2 The code

### 2.1 Initial setup

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

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

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

```
3 \def\fb@error#1#2{%
4   \begingroup
5     \newlinechar='\^J
6     \def\\{\^J(french.ldf) }%
7     \errhelp{#2}\errmessage{\#1^J}%
8   \endgroup
9 \def\fb@warning#1{%
10   \begingroup
11     \newlinechar='\^J
12     \def\\{\^J(french.ldf) }%
13     \message{\#1^J}%
14   \endgroup
15 \def\fb@info#1{%
16   \begingroup
17     \newlinechar='\^J
18     \def\\{\^J}%
19     \wlog{#1}%
20   \endgroup}
```

Quit if eTeX is not available.

```
21 \let\bb@tempa\relax
22 \begingroup\expandafter\expandafter\expandafter\endgroup
23 \expandafter\ifx\csname eTeXversion\endcsname\relax
24   \let\bb@tempa\endinput
25   \fb@error{babel-french requires eTeX.}\
26             Aborting here}
27             {Original PlainTeX is not supported, \\
28             please use LuaTeX or XeTeX engines.}
29 \fi
30 \bb@tempa
```

Quit if Babel's version is less than 3.9i.

```
31 \let\bb@tempa\relax
32 \ifdefined\babeltags
33 \else
```

```

34 \let\bb@tempa\endinput
35 \ifdefined\PackageError
36   \PackageError{french.ldf}
37     {babel-french requires babel v.3.16.}\MessageBreak
38     Aborting here}
39     {Please upgrade Babel!}
40 \else
41   \fb@error{babel-french requires babel v.3.16.}\MessageBreak
42     Aborting here}
43     {Please upgrade Babel!}
44 \fi
45 \fi
46 \bb@tempa

```

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

```

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

```

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

```

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

```

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

```

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

```

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

```

65 \newif\ifLaTeXe
66 \let\bb@tempa\relax

```

```

67 \ifdefined\magnification
68 \else
69   \ifdefined\@compatibilitytrue
70     \LaTeXettrue
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\bb@tempa\endinput
77   \fi
78 \fi
79 \bb@tempa

```

Check LaTeX2e version (support for `ltkeys` required).

```
80 \ifLaTeXe \NeedsTeXFormat{LaTeX2e}[2022/06/01] \fi
```

`\iffBunicode` French hyphenation patterns are now coded in Unicode, see file `hyph-fr.tex`. XeTeX  
`\iffBLuaTeX` and LuaTeX engines require some extra code to deal with the French “apostrophe”.  
`\iffBXeTeX` Let’s define three new ‘if’: `\iffBLuaTeX`, `\iffBXeTeX` and `\iffBunicode` which will be true for XeTeX and LuaTeX engines and false for 8-bits engines.

```

81 \newif\iffBunicode
82 \newif\iffBLuaTeX
83 \newif\iffBXeTeX
84 \begingroup\expandafter\expandafter\expandafter\endgroup
85 \expandafter\ifx\csname luatexversion\endcsname\relax
86 \else
87   \FBunicodetrue \FBLuaTeXtrue
88 \fi
89 \begingroup\expandafter\expandafter\expandafter\endgroup
90 \expandafter\ifx\csname XeTeXrevision\endcsname\relax
91 \else
92   \FBunicodetrue \FBXeTeXtrue
93 \fi

```

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

```
94 \newif\iffBfrench
```

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

In French, character “apostrophe” (U+27 or U+2019) is a letter in expressions like `l’ambulance` (French hyphenation patterns provide entries for this kind of words).

This means that the `\lccode` of “apostrophe” has to be non null in French for proper hyphenation of those expressions, and has to be reset to null when exiting French. The following code ensures correct hyphenation of words like `d'aventure`, `l'utopie`, with all TeX engines (XeTeX, LuaTeX, pdfTeX) using `hyph-fr.tex` patterns.

```

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

```

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

```

105 \addto\extrasfrench{\bbbl@frenchspacing}
106 \addto\noextrasfrench{\bbbl@nonfrenchspacing}

```

## 2.2 Punctuation

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

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

```
107 \newif\ifFB@active@punct \FB@active@puncttrue
```

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

```

108 \newif\ifFB@luatex@punct
109 \iffBLuaTeX
110   \ifnum\luatexversion<100
111     \ifx\PackageWarning@\undefined
112       \fb@warning{Please upgrade LuaTeX to version 1.0.4 or above!\\%
113         babel-french will make high punctuation characters (;!:?)\\%
114         active with LuaTeX < 1.0.4.}%
115   \else
116     \PackageWarning{french.ldf}{Please upgrade LuaTeX
117       to version 1.0.4 or above!\\MessageBreak
118       babel-french will make high punctuation characters}

```

```

119      \MessageBreak (;:!?) active with LuaTeX < 1.0.4;%
120      \MessageBreak reported}%
121      \fi
122  \else
123      \FB@luatex@puncttrue\FB@active@punctfalse
124  \fi
125 \fi

```

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

The number of available character classes has been increased from 256 to 4096 in XeTeX v. 0.99994, the class for non-characters is now 0xFFFF=4095 (formerly 0xFF=255). The class for standard characters is 0.

```

126 \newcount\FB@stdchar
127 \newif\ifB@xetex@punct
128 \ifdefinable\XeTeXinterchartokenstate
129   \FB@xetex@puncttrue\FB@active@punctfalse
130   \ifdim\the\XeTeXversion\XeTeXrevision\p@ < 0.99994\p@
131     \chardef\FB@nonchar="FF \relax
132   \else
133     \chardef\FB@nonchar="FFF \relax
134   \fi
135   \FB@stdchar=\z@
136 \fi

```

\FBguillspace These three commands are meant for basic French. Other French dialects can use \FBcolonspace different settings, see below. According to the I.N. specifications, the ‘:’ requires \FBthinspace an inter-word space before it, the other three require just a thin space. We define \FBcolonspace as \space (inter-word space) and \FBthinspace as an half inter-word space with no shrink nor stretch. \FBguillspace is defined btw. as spacing for French quotes is handled together with high punctuation for LuaTeX and XeTeX. \FBguillspace 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 \FBsetspace command described below. A penalty will be added before these spaces to prevent line breaking.

```

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

```

\FBsetspace This command makes it easy to fine tune \FBguillspace, \FBcolonspace and \FBthinspace in French (default) or independently in a French dialect using the optional argument. They are meant for LaTeXe only and can only be used in the preamble. Four mandatory arguments are expected besides the optional one:

the first one is a *string* either "guill", "colon", or "thin", the last four are decimal numbers specifying *width*, *stretch* and *shrink* relative to *fontdimens*. For instance `\FBsetspace[acadian]{colon}{0.5}{0}{0}` defines `\acadianFBcolonspace` as a thinspace which will be used for the Acadian dialect only. When used without optional argument or with argument 'french', the same command would tune the basic `\FBcolonspace` command.

```

142 \ifLaTeXe
143   \newcommand*{\FBsetspace}[5][french]{%
144     \def\bb@tempa{french}\def\bb@tempb{\#1}%
145     \ifx\bb@tempa\bb@tempb \def\bb@tempb{}\fi
146     \@namedef{\bb@tempb FB#2space}{\hspace{#3\fontdimen2\font
147                               plus #4\fontdimen3\font
148                               minus #5\fontdimen4\font} \relax}%

```

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

```

149   \ifFB@luatex@punct
150     \ifx\bb@tempb\FB@acadian
151       \directlua{
152         FBsp.#2.g1.ac[1] = #3
153         FBsp.#2.g1.ac[2] = #4
154         FBsp.#2.g1.ac[3] = #5
155         if #3 > 0.6 then
156           FBsp.#2.ch.ac = 0xA0
157         elseif #3 > 0.2 then
158           FBsp.#2.ch.ac = 0x202F
159         else
160           FBsp.#2.ch.ac = 0x200B
161         end
162       }%
163       \fi
164     \fi
165   }
166   \only@preamble\FBsetspace
167 \fi

```

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

```

168 \ifLaTeXe
169   \addto\extrasfrench{%
170     \ifFB@luatex@punct
171       \edef\bb1@tempa{\detokenize\expandafter{\languagename}}%
172       \edef\bb1@tempb{\detokenize{french}}%
173       \ifx\bb1@tempa\bb1@tempb \FB@dialect=\z@
174     \else \FB@dialect=\@ne
175   \fi

```

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

```

176   \ifdef\FB@once\else
177     \set@glue@table{colon}%
178     \set@glue@table{thin}%
179     \set@glue@table{guill}%
180     \def\FB@once{}%
181   \fi
182 \fi

```

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

```

183   \ifcsname\languagename FBthinspace\endcsname
184     \babel@save\FBthinspace
185     \renewcommand*\{\FBthinspace}{%
186       \csname\languagename FBthinspace\endcsname}%
187   \fi

```

Same for `\FBcolonspace`:

```

188   \ifcsname\languagename FBcolonspace\endcsname
189     \babel@save\FBcolonspace
190     \renewcommand*\{\FBcolonspace}{%
191       \csname\languagename FBcolonspace\endcsname}%
192   \fi

```

And for `\FBguillspace`:

```

193   \ifcsname\languagename FBguillspace\endcsname
194     \babel@save\FBguillspace
195     \renewcommand*\{\FBguillspace}{%
196       \csname\languagename FBguillspace\endcsname}%
197   \fi
198 }
199 \fi

```

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

```
200 \newif\iffB@spacing \FB@spacingtrue
```

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

```
201 \iffB@luatex@punct
202   \newcommand*{\FB@spacing@on}{\FB@spacing=\@ne}
203   \newcommand*{\FB@spacing@off}{\FB@spacing=\z@}
204 \else
205   \newcommand*{\FB@spacing@on}{\FB@spacingtrue}
206   \newcommand*{\FB@spacing@off}{\FB@spacingfalse}
207 \fi
```

### 2.2.1 Punctuation with LuaTeX

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

```
208 \iffB@luatex@punct
209   \ifdefined\newluafunction\else
```

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

```
210   \input ltluatex.tex
211 \fi
```

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

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

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

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

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

```
212 \newattribute\FB@spacing      \FB@spacing=\@ne
213 \newattribute\FB@addDPspace   \FB@addDPspace=\@ne
214 \newattribute\FB@addGUILspace \FB@addGUILspace=\z@
215 \newattribute\FB@ucsNBSP      \FB@ucsNBSP=\z@
216 \newattribute\FB@dialect      \FB@dialect=\z@
217 \ifLaTeXe
```

```

218  \PackageInfo{french.ldf}{No need for active punctuation
219      characters\MessageBreak with this version
220      of LuaTeX!\MessageBreak reported}
221 \else
222   \fb@info{No need for active punctuation characters\\
223       with this version of LuaTeX!}
224 \fi

```

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 `\FBsetspace` commands) are taken into account. Values not explicitly set for Acadian by `\FBsetspace[acadian]` commands are copied from the French ones.

In case parsing by the Lua function `FBget_glue` (defined in file `frenchb.lua`) fails due to unexpected syntax in `\FB... space` the table remains unchanged and a warning is issued. The matching space characters for option `UnicodeNoBreakSpaces` are set as word space, thin space or null space according to the `width` parameter.

```

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

```

```

254     end
255   }%
256 }
257 \fi
258 </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).

```

259 <*lua>
260 local FB_punct_thin =
261   {[string.byte("!")] = true,
262   [string.byte("?")] = true,
263   [string.byte(";")] = true}
264 local FB_punct_thick =
265   {[string.byte(":")] = true}

```

Managing spacing after ‘«’ (U+00AB) and before ‘»’ (U+00BB) can be done by the way; we define two flags, `FB_punct_left` for characters requiring some space before them and `FB_punct_right` for ‘«’ 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 ‘»’.

```

266 local FB_punct_left =
267   {[string.byte("!")] = true,
268   [string.byte("?")] = true,
269   [string.byte(";")] = true,
270   [string.byte(":")] = true,
271   [0x14]           = true,
272   [0xBB]           = true}
273 local FB_punct_right =
274   {[0x13]           = true,
275   [0xAB]           = true}

```

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

```

276 local FB_punct_null =
277   {[string.byte("!")] = true,
278   [string.byte("?")] = true,
279   [string.byte("[")] = true,
280   [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.

```

281   [0xA0]           = true,
282   [0x202F]          = true}
283 local FB_guil_null =

```

```

284 {[0xA0]          = true,
285 [0x202F]         = true}

```

Local definitions for nodes:

```

286 local new_node    = node.new
287 local copy_node   = node.copy
288 local node_id     = node.id
289 local HLIST       = node_id("hlist")
290 local TEMP        = node_id("temp")
291 local DISC        = node_id("disc")
292 local KERN        = node_id("kern")
293 local GLUE        = node_id("glue")
294 local GLYPH       = node_id("glyph")
295 local PENALTY     = node_id("penalty")
296 local nobreak     = new_node(PENALTY)
297 nobreak.penalty  = 10000
298 local nbspace     = new_node(GLYPH)
299 local insert_node_before = node.insert_before
300 local insert_node_after  = node.insert_after
301 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.

```

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

```

```

324   return t
325 end

```

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

```

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

```

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

```

342 local font_table = {}
343 local function new_glue_scaled (fid,table)
344   if fid > 0 and table[1] then
345     local fp = font_table[fid]
346     if not fp then
347       local ft = font.getfont(fid)
348       if ft then
349         font_table[fid] = ft.parameters
350         fp = font_table[fid]
351       end
352     end
353     local gl = new_node(GLUE,0)
354     if fp then
355       node.setglue(gl, table[1]*fp.space,
356                   table[2]*fp.space_stretch,
357                   table[3]*fp.space_shrink)
358     return gl
359   else
360     return nil
361   end

```

```

362   else
363     return nil
364   end
365 end

```

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

```

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

```

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

```

372 -- Main function (to be added to the kerning callback).
373 local function french_punctuation (head)

```

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

```

374 node.kerning(head)
375 for item in node.traverse_id(GLYPH, head) do
376   local lang = item.lang
377   local char = item.char

```

Skip glyphs not concerned by French kernings.

```

378   if (lang == FR_fr or lang == FR_ca) and
379     (FB_punct_left[char] or FB_punct_right[char]) then
380     local fid = item.font
381     local attr = item.attr
382     local FRspacing = has_attribute(item, FBspacing)
383     FRspacing = FRspacing and FRspacing > 0
384     local FRucsNBSP = has_attribute(item, FBucsNBSP)
385     FRucsNBSP = FRucsNBSP and FRucsNBSP > 0
386     local FRdialect = has_attribute(item, FBdialect)
387     FRdialect = FRdialect and FRdialect > 0
388     local SIG = has_attribute(item, addGUILspace)
389     SIG = SIG and SIG > 0
390     if FRspacing and fid > 0 then
391       if FB_punct_left[char] then
392         local prev = item.prev
393         local prev_id, prev_subtype, prev_char

```

```

394     if prev then
395         prev_id = prev.id
396         prev_subtype = prev.subtype
397         if prev_id == GLYPH then
398             prev_char = prev.char
399         end
400     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.

```

401         local is_glue = prev_id == GLUE
402         local glue_wd
403         if is_glue then
404             glue_wd = prev.width
405         end
406         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.

```

407         if FB_punct_thin[char] or FB_punct_thick[char] then
408             local SBDP = has_attribute(item, addDPSpace)
409             local auto = SBDP and SBDP > 0
410             if FB_punct_thick[char] and auto then
411                 local next = item.next
412                 local next_id
413                 if next then
414                     next_id = next.id
415                 end
416                 if next_id and
417                     (next_id == GLYPH or next_id == DISC) then
418                     auto = false
419                 end
420             end
421             if auto then
422                 if (prev_char and FB_punct_null[prev_char]) or

```

```

423             (is_glue and glue_wd ≤ 1) or
424             (prev_id = HLIST and prev_subtype = 3) or
425             (prev_id = TEMP) then
426                 auto = false
427             end
428         end
429         local fbglue
430         local t
431         if FB_punct_thick[char] then
432             if FRdialect then
433                 t = FBsp.colon.gl.ac
434                 nbspace.char = FBsp.colon.ch.ac
435             else
436                 t = FBsp.colon.gl.fr
437                 nbspace.char = FBsp.colon.ch.fr
438             end
439         else
440             if FRdialect then
441                 t = FBsp.thin.gl.ac
442                 nbspace.char = FBsp.thin.ch.ac
443             else
444                 t = FBsp.thin.gl.fr
445                 nbspace.char = FBsp.thin.ch.fr
446             end
447         end
448         fbglue = new_glue_scaled(fid, t)

```

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

```

449             if (realglue or auto) and fbglue then
450                 if realglue then
451                     head = remove_node(head,prev,true)
452                 end
453                 if (FRucsNBSP) then
454                     nbspace.font = fid
455                     nbspace.attr = attr
456                     insert_node_before(head,item,copy_node(nbspace))
457                 else
458                     nobreak.attr = attr
459                     fbglue.attr = attr
460                     insert_node_before(head,item,copy_node(nobreak))
461                     insert_node_before(head,item,copy_node(fbglue))
462                 end
463             end

```

Let's consider '»' now (the only remaining glyph of `FB_punct_left` class): we just have to remove any *glue* possibly preceding '», then to insert the nobreak penalty and the proper *glue* (controlled by `\FBguillspace`). This is done only if French quotes have been 'activated' by options `og=<, fg=>` in `\frenchsetup{}` and can be denied

locally with \NoAutoSpacing (this is controlled by the SIG flag). If either a) the preceding glyph is member of FB\_guil\_null, or b) ‘»’ is the first glyph of an \hbox{} or a paragraph, nothing is done, this is controlled by the addgl flag.

```

464         elseif SIG then
465             local addgl = (prev_char and
466                             not FB_guil_null[prev_char])
467                         or
468                             (not prev_char and
469                             prev_id ~ TEMP and
470                             not (prev_id = HLIST and
471                                 prev_subtype = 3))
472             )

```

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

```

473             if is_glue and glue_wd ≤ 1 then
474                 addgl = false
475             end
476             local t = FBsp.guill.gl.fr
477             nbspace.char = FBsp.guill.ch.fr
478             if FRdialect then
479                 t = FBsp.guill.gl.ac
480                 nbspace.char = FBsp.guill.ch.ac
481             end
482             local fbglue = new_glue_scaled(fid, t)
483             if addgl and fbglue then
484                 if is_glue then
485                     head = remove_node(head, prev, true)
486                 end
487                 if (FRucsNBSP) then
488                     nbspace.font = fid
489                     nbspace.attr = attr
490                     insert_node_before(head, item, copy_node(nbspace))
491                 else
492                     nobreak.attr = attr
493                     fbglue.attr = attr
494                     insert_node_before(head, item, copy_node(nobreak))
495                     insert_node_before(head, item, copy_node(fbglue))
496                 end
497             end
498         end

```

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

```

499      elseif SIG then
500          local next = item.next
501          local next_id, next_subtype, next_char, nextnext, kern_wd
502          if next then
503              next_id = next.id
504              next_subtype = next.subtype

```

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

```

505          if next_id == PENALTY then
506              nextnext = next.next
507              if nextnext and nextnext.id == GLUE then
508                  head = remove_node(head,nextnext,true)
509                  head = remove_node(head,next,true)
510                  next = item.next
511                  if next then
512                      next_id = next.id
513                      next_subtype = next.subtype
514                      if next_id == GLYPH then
515                          next_char = next.char
516                      end
517                  end
518              end
519          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}~»):

```

520          if next_id == KERN then
521              kern_wd = next.kern
522              if kern_wd == 0 then
523                  nextnext = next.next
524                  if nextnext then
525                      next = nextnext
526                      next_id = nextnext.id
527                      next_subtype = nextnext.subtype
528                      if next_id == PENALTY then
529                          nextnext = next.next
530                          if nextnext and nextnext.id == GLUE then
531                              head = remove_node(head,next,true)
532                              head = remove_node(head,nextnext,true)
533                              next = item.next
534                              if next then
535                                  next_id = next.id
536                                  next_subtype = next.subtype
537                              end
538                          end
539                      end
540                  end

```

```

541         end
542     end
543     if next_id == GLYPH then
544         next_char = next.char
545     end
546 end
547 local is_glue = next_id == GLUE
548 if is_glue then
549     glue_wd = next.width
550 end

```

The addgl flag only depends on next\_char and is\_glue:

```

551     local addgl = (next_char and not FB_guil_null[next_char])
552             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).

```

553     if is_glue and glue_wd == 0 then
554         addgl = false
555     end
556     local fid = item.font
557     local t = FBsp.guill.gl.fr
558     nbspace.char = FBsp.guill.ch.fr
559     if FRdialect then
560         t = FBsp.guill.gl.ac
561         nbspace.char = FBsp.guill.ch.ac
562     end
563     local fbglue = new_glue_scaled(fid, t)
564     if addgl and fbglue then
565         if is_glue then
566             head = remove_node(head,next,true)
567         end
568         if (FRucsNBSP) then
569             nbspace.font = fid
570             nbspace.attr = attr
571             insert_node_after(head, item, copy_node(nbspace))
572         else
573             nobreak.attr = attr
574             fbglue.attr = attr
575             insert_node_after(head, item, copy_node(fbglue))
576             insert_node_after(head, item, copy_node(nobreak))
577         end
578     end
579     end
580   end
581 end
582 end
583 return head

```

```

584 end
585 return french_punctuation
586 </lua>

```

As a language tag is part of glyph nodes in LuaTeX, no more switching has to be done in `\extrasfrench`, setting the dialect attribute has already be done (see above, p. 19). 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`).

```

587 <*>french>
588 \ifFB@luatex@punct
589   \def\activate@luatexpunct{%
590     \directlua{%
591       FR_fr = \the\l@french ; FR_ca = \the\l@acadian ;
592       local path = kpse.find_file("frenchb.lua", "lua")
593       if path then
594         local f = dofile(path)
595         luatexbase.add_to_callback("kerning",
596                                   f, "frenchb.french_punctuation")
597       else
598         texio.write_nl('')
599         texio.write_nl('*****')
600         texio.write_nl('Error: frenchb.lua not found.')
601         texio.write_nl('*****')
602         texio.write_nl('')
603       end
604     }%
605   }
606 \fi

```

End of specific code for punctuation with LuaTeX engines.

### 2.2.2 Punctuation with XeTeX

If `\XeTeXinterchartokenstate` is available, we use the “inter char” mechanism to provide correct spacing in French before the four characters ; ! ? and :. The basis of the following code was borrowed from the `polyglossia` package, see `gloss-french.1df`. We use the same mechanism for French quotes (« and »), when automatic spacing for quotes is required by options `og=<` and `fg=<` in `\frenchsetup{}` (see section 2.11). Unless `ucharclass` is loaded, the default value for `\XeTeXcharclass` is 0 for characters tokens and `\FB@nonchar` for all other tokens (glues, kerns, math and box boundaries, etc.). `ucharclass` defines a XeTeX class for every range of Unicode characters in order to facilitate font switching. Most French characters belong to range [”20, ”7F] (class `\BasicLatinClass`) some (accented chars, diacritics,...) to range [”80, ”FF]

(class \LatinSupplementClass) and three (œ, œ, and the long-s) to [”100, ”17F] (class \LatinExtendedAClass).

We check AtBeginDocument whether ucharclass is loaded; if so, when switching to French, the class \FB@stdchar of all characters possibly used in French (except punctuation) will be forced to \BasicLatinClass which is the default for most of them, the class of the others (accented chars, ligatures, diacritics, etc.) will be saved and changed locally in French, then restored to their original value when leaving French.

We switch \XeTeXinterchartokenstate to 1 and change the \XeTeXcharclass values of ; ! ? : ( ) « and » when entering French. Their initial values will be restored when leaving French.

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

```

607 \ifFB@xetex@punct
608   \ifLaTeXe
609     \PackageInfo{french.ldf}{No need for active punctuation
610                           characters\MessageBreak with this
611                           version of XeTeX!\MessageBreak reported}
612   \else
613     \fb@info{No need for active punctuation characters\\
614               with this version of XeTeX!}
615 \fi

```

Six new character classes are defined for babel-french.

```

616   \newXeTeXintercharclass\FB@punctthick
617   \newXeTeXintercharclass\FB@punctthin
618   \newXeTeXintercharclass\FB@punctnul
619   \newXeTeXintercharclass\FB@guilo
620   \newXeTeXintercharclass\FB@guilf
621   \newXeTeXintercharclass\FB@guilnul

```

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

```

622   \def\FB@savevariable@loop#1#2{\begingroup
623     \toks@\expandafter{\originalTeX #1}%
624     \edef\x{\endgroup
625       \def\noexpand\originalTeX{\the\toks@ #2=\the#1#2\relax}%
626     \x}

```

\FB@charlist save holds the all list of characters which have their \XeTeXcharclass value modified in French: it always includes high punctuation, French quotes, opening delimiters and no-break spaces. If ucharclasses is loaded, non-ASCII characters used in French have to be added; as xeCJK changes the class of some characters used in French, these have to be saved too if xeCJK is loaded.

```

627   \def\FB@charlist{"21,"3A,"3B,"3F,"AB,"BB,"28,"5B,"A0,"202F}
628   \def\FB@charlistUCC{}
629   \def\FB@charlistxeCJK{}

```

```

630  \edef\FB@charlistsave{\FB@charlist}
631  \ifLaTeXe
632    \AtBeginDocument{%
633      \@ifpackageloaded{ ucharclasses }{%
634        \ifdefined\BasicLatinClass
635          \RenewCommandCopy{\FB@stdchar}{\BasicLatinClass}%
636          \def\FB@charlistUCC{"C0,"C2,"C6,"C7,"C8,"C9,"CA,"CB,"CE,"CF,%
637            "D4,"D6,"D9,"DB,"DC,"E0,"E2,"E6,"E7,"E8,"E9,"EA,"EB,"EE,%
638            "EF,"F4,"F6,"F9,"FB,"FC,"152,"153,"17F,"2019}%
639          \addto\FB@charlist{,\FB@charlistUCC}%
640          \edef\FB@charlistsave{\FB@charlist}%
641        \fi
642      }{%
643        \@ifpackageloaded{ xeCJK }{%
644          \def\FB@charlistxeCJK{%
645            "29,"5D,"7B,"7D,"2C,"2D,"2E,"22,"25,"27,"60,"2019}%
646          \addto\FB@charlist{,\FB@charlistxeCJK}%
647          \edef\FB@charlistsave{\FB@charlist}%
648        }{%
649      }
650    \fi

```

\FB@xetex@punct@french The following command will be executed when entering French, it first saves the values to be modified, then fits them to our needs.

```

651  \newcommand*{\FB@xetex@punct@french}{%
652    \babel@savevariable{\XeTeXinterchartokenstate}%
653    \bbbl@for\FB@char\FB@charlistsave
654      {\FB@savevariable@loop{\XeTeXcharclass}{\FB@char}}%

```

If ucharclasses is loaded, force non-ASCII used in French to class \FB@stdchar (= \BasicLatinClass).

```

655  \ifx\FB@charlistUCC\empty\else
656    \bbbl@for\FB@char\FB@charlistUCC
657      {\XeTeXcharclass \FB@char \FB@stdchar}%
658  \fi

```

These characters have their class changed by xeCJK.sty, let's reset their class in French.

```

659  \ifx\FB@charlistxeCJK\empty\else
660    \bbbl@for\FB@char\FB@charlistxeCJK
661      {\XeTeXcharclass\FB@char=\FB@stdchar}%
662  \fi

```

This will avoid spurious spaces in (!), [?] and with Unicode non-breaking spaces (U+00A0, U+202F):

```

663  \bbbl@for\FB@char {\`[,\`\(), "A0,"202F}%
664      {\XeTeXcharclass\FB@char=\FB@punctnul}%

```

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

```

665      \XeTeXinterchartokenstate=\@ne
666      \XeTeXcharclass `\: = \FB@punctthick
667      \XeTeXinterchartoks \FB@stdchar \FB@punctthick = {%
668          \iffB@spacing\ifhmode\FDP@colonspace\fi\fi}%
669      \XeTeXinterchartoks \FB@guilf \FB@punctthick = {%
670          \iffB@spacing\FDP@colonspace\fi}%

```

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

```

671      \XeTeXinterchartoks \FB@nonchar \FB@punctthick = {%
672          \iffB@spacing
673              \ifhmode
674                  \ifdim\lastskip>1sp
675                      \unskip\penalty\@M\FBcolonspace
676              \else
677                  \FDP@colonspace
678                  \fi
679                  \fi
680          \fi}%
681      \bb1@for\FB@char {\`;,`\!,`\?}{%
682          \ifx\XeTeXcharclass\FB@char=\FB@punctthin}{%
683          \XeTeXinterchartoks \FB@stdchar \FB@punctthin = {%
684              \iffB@spacing\ifhmode\FDP@thinspace\fi\fi}%
685          \XeTeXinterchartoks \FB@guilf \FB@punctthin = {%
686              \iffB@spacing\FDP@thinspace\fi}%
687          \XeTeXinterchartoks \FB@nonchar \FB@punctthin = {%
688              \iffB@spacing
689                  \ifhmode
690                      \ifdim\lastskip>1sp
691                          \unskip\penalty\@M\FBthinspace
692                  \else
693                      \FDP@thinspace
694                      \fi
695                      \fi
696          \fi}%
697          \XeTeXinterchartoks \FB@guilo \FB@stdchar = {%
698              \iffB@spacing\FB@guillspace\fi}%
699          \XeTeXinterchartoks \FB@guilo \FB@nonchar = {%
700              \iffB@spacing\FB@guillspace\ignorespaces\fi}%

```

```

701   \XeTeXinterchartoks \FB@stdchar \FB@guilf = {%
702     \ifFB@spacing\FB@guillspace\fi}%
703   \XeTeXinterchartoks \FB@punctthin \FB@guilf = {%
704     \ifFB@spacing\FB@guillspace\fi}%
705   \XeTeXinterchartoks \FB@nonchar \FB@guilf = {%
706     \ifFB@spacing\unskip\FB@guillspace\fi}%
707   }
708 \addto\extrasfrench{\FB@xetex@punct@french}

```

End of specific code for punctuation with modern XeTeX engines.

```
709 \fi
```

### 2.2.3 Punctuation with standard (pdf)TeX

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

```

710 \newif\iffB@koma
711 \ifLaTeXe
712   \@ifclassloaded{scrartcl}{}\FB@komatrue{}{}
713   \@ifclassloaded{scrbook}{}\FB@komatrue{}{}
714   \@ifclassloaded{scrreprt}{}\FB@komatrue{}{}
715   \iffB@koma\def\FB@std@capsep{:\ } \fi
716   \@ifclassloaded{beamer}{}\def\FB@std@capsep{:\ }}{}}
717   \@ifclassloaded{memoir}{}\def\FB@std@capsep{:\ }}{}}
718 \fi
719 \iffB@active@punct
720   \initiate@active@char{:}%
721   \initiate@active@char{;}%
722   \initiate@active@char{!}%
723   \initiate@active@char{?}%

```

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

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

```

724 \declare@shorthand{french}{;}{%
725   \ifFB@spacing
726     \ifhmode
727       \ifdim\lastskip>1sp
728         \unskip\penalty\@M\FBthinspace
729       \else
730         \FDP@thinspace

```

```

731      \fi
732      \fi
733      \fi

```

Now we can insert a ; character.

```
734      \string{;
```

The next three definitions are very similar.

```

735  \declare@shorthand{french}{!}{%
736    \ifFB@spacing
737      \ifhmode
738        \ifdim\lastskip>1sp
739          \unskip\penalty\@M\FBthinspace
740        \else
741          \FDP@thinspace
742        \fi
743      \fi
744    \fi
745    \string!}
746 \declare@shorthand{french}{?}{%
747   \ifFB@spacing
748     \ifhmode
749       \ifdim\lastskip>1sp
750         \unskip\penalty\@M\FBthinspace
751       \else
752         \FDP@thinspace
753       \fi
754     \fi
755   \fi
756   \string?}
757 \declare@shorthand{french}{:}{%
758   \ifFB@spacing
759     \ifhmode
760       \ifdim\lastskip>1sp
761         \unskip\penalty\@M\FBcolonspace
762       \else
763         \FDP@colonspace
764       \fi
765     \fi
766   \fi
767   \string:}

```

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

```

768 \declare@shorthand{system}{:}{\string:}
769 \declare@shorthand{system}{!}{\string!}
770 \declare@shorthand{system}{?}{\string?}

```

```
771 \declare@shorthand{system}{;}{\string;}
```

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

```
772 \addto\extrasfrench{\languageshortands{french} %
```

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

```
773 \bb@activate{:\}\bb@activate{;}{%  
774 \bb@activate{!}\bb@activate{?}{%  
775 }  
776 \addto\noextrasfrench{ %  
777 \bb@deactivate{:\}\bb@deactivate{;}{%  
778 \bb@deactivate{!}\bb@deactivate{?}{%  
779 }  
780 \fi
```

## 2.2.4 Punctuation switches common to all engines

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

```
781 \newif\iffFBAutoSpacePunctuation \FBAutoSpacePunctuationtrue
```

`\AutoSpaceBeforeFDP` `\autospace@beforeFDP` and `\noautospace@beforeFDP` are internal commands. `\NoAutoSpaceBeforeFDP` `\autospace@beforeFDP` defines commands `\FDP@thinspace` and `\FDP@colonspace` as non-breaking spaces and sets LuaTeX attribute `\FB@addDPSpace` to 1 (true), while `\noautospace@beforeFDP` makes them no-op and sets flag `\FB@addDPSpace` to 0 (false). User commands `\AutoSpaceBeforeFDP` and `\NoAutoSpaceBeforeFDP` do the same and take care of the flag `\iffFBAutoSpacePunctuation` in LaTeX.

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

```
782 \def\autospace@beforeFDP{ %  
783 \iffB@luatex@punct \FB@addDPSpace=\@ne \fi  
784 \def\FDP@thinspace{\penalty\@M\FBthinspace}{%  
785 \def\FDP@colonspace{\penalty\@M\FBcolonspace}{}}  
786 \def\noautospace@beforeFDP{ %  
787 \iffB@luatex@punct \FB@addDPSpace=\z@ \fi  
788 \let\FDP@thinspace\empty  
789 \let\FDP@colonspace\empty  
790 \ifLaTeXe  
791 \def\AutoSpaceBeforeFDP{\autospace@beforeFDP  
792 \FBAutoSpacePunctuationtrue}{%  
793 \def\NoAutoSpaceBeforeFDP{\noautospace@beforeFDP  
794 \FBAutoSpacePunctuationfalse}{%  
795 \AtEndOfPackage{\AutoSpaceBeforeFDP}}
```

```

796 \else
797   \let\AutoSpaceBeforeFDP\autospace@beforeFDP
798   \let\NoAutoSpaceBeforeFDP\noautospace@beforeFDP
799   \AutoSpaceBeforeFDP
800 \fi

```

\rmfamilyFB In LaTeX2e \ttfamily (and hence \texttt) will be redefined ‘AtBeginDocument’ as \sffamilyFB \ttfamilyFB so that no space is added before the four ; : ! ? characters, even if \ttfamilyFB **AutoSpacePunctuation** is **true**. When **AutoSpacePunctuation** is **false**, the eventually typed spaces are left unchanged (not turned into thin spaces, no penalty added). \rmfamily and \sffamily need to be redefined also (\ttfamily is not always used inside a group, its effect can be cancelled by \rmfamily or \sffamily). These redefinitions can be canceled if necessary, for instance to recompile older documents, see option **OriginalTypewriter** below.

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

```

801 \ifLaTeXe
802   \DeclareRobustCommand\ttfamilyFB{\FB@spacing@off \ttfamilyORI}
803   \DeclareRobustCommand\rmfamilyFB{\FB@spacing@on \rmfamilyORI}
804   \DeclareRobustCommand\sffamilyFB{\FB@spacing@on \sffamilyORI}
805 \fi

```

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

```

806 \DeclareRobustCommand*\{\NoAutoSpacing\}%
807   \FB@spacing@off
808   \ifFB@active@punct\shorthandoff{;!:?}\fi
809 }

```

## 2.3 Commands for French quotation marks

\guillemotleft pdfLaTeX users are supposed to use 8-bit output encodings (T1, LY1,...) to type- \guillemotright set French, those who still stick to OT1 should load aeguill or a similar package.

\textquotedblleft In both cases the commands \guillemotleft and \guillemotright will print the \textquotedblright French opening and closing quote characters from the output font. For XeLaTeX and LuaLaTeX, \guillemotleft and \guillemotright are defined by package **fontspec** (v. 2.5d and up).

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

```

810 \ifLaTeXe
811 \else
812   \iffBunicode
813     \def\guillemotleft{{\char"00AB}}
814     \def\guillemotright{{\char"00BB}}
815     \def\textquotedblleft{{\char"201C}}
816     \def\textquotedblright{{\char"201D}}
817   \else
818     \def\guillemotleft{\leavevmode\raise0.25ex
819                               \hbox{$\scriptscriptstyle\ll$}}
820     \def\guillemotright{\raise0.25ex
821                               \hbox{$\scriptscriptstyle\gg$}}
822     \def\textquotedblleft{``}
823     \def\textquotedblright{''}
824   \fi
825   \let\xspace\relax
826 \fi

```

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

```

827 \providetcommand\texorpdfstring[2]{#1}
828 \newcommand*{\FB@og}{\texorpdfstring{\@FB@og}{\guillemotleft\space}}
829 \newcommand*{\FB@fg}{\texorpdfstring{\@FB@fg}{\space\guillemotright}}

```

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

```

830 \newcommand*{\FB@guillspace}{\penalty@M\FBguillspace}
831 \newcommand*{\FBgspchar}{\char"A0\relax}
832 \newif\iffBucsNBSP
833 \ifFB@luatex@punct
834   \DeclareRobustCommand*{\@FB@og}{\leavevmode
835     \bgroup\FB@spacing=\z@\guillemotleft\egroup
836     \iffBucsNBSP\FBgspchar\else\FB@guillspace\fi}
837   \DeclareRobustCommand*{\@FB@fg}{\ifdim\lastskip>\z@\unskip\fi
838     \iffBucsNBSP\FBgspchar\else\FB@guillspace\fi
839     \bgroup\FB@spacing=\z@\guillemotright\egroup}
840 \fi

```

With XeTeX, \ifFB@spacing is set to false locally for the same reason.

```

841 \ifFB@xetex@punct
842   \DeclareRobustCommand*{\@FB@og}{\leavevmode
843     \bgroup\FB@spacingfalse\guillemotleft\egroup

```

```

844      \FB@guillspace}
845  \DeclareRobustCommand*{\@FB@fg}{\ifdim\lastskip>\z@\unskip\fi
846      \FB@guillspace
847      \bgroup\FB@spacingfalse\guillemotright\egroup}
848 \fi
849 \ifFB@active@punct
850  \DeclareRobustCommand*{\@FB@og}{\leavevmode
851      \guillemotleft
852      \FB@guillspace}
853  \DeclareRobustCommand*{\@FB@fg}{\ifdim\lastskip>\z@\unskip\fi
854      \FB@guillspace
855      \guillemotright}
856 \fi

```

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

```

857 \newcommand*{\og}{\emptyset}
858 \newcommand*{\fg}{\emptyset}

```

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).

```

859 \ifLaTeXe
860   \def\bbbl@frenchguillemets{%
861     \renewcommand*{\og}{\FB@og}%
862     \renewcommand*{\fg}{\FB@fg\xspace}%
863   \renewcommand*{\og}{\textquotedblleft}%
864   \renewcommand*{\fg}{\ifdim\lastskip>\z@\unskip\fi
865                           \textquotedblright\xspace}%
866 \else
867   \def\bbbl@frenchguillemets{\let\og\FB@og
868                           \let\fg\FB@fg}%
869   \def\og{\textquotedblleft}%
870   \def\fg{\ifdim\lastskip>\z@\unskip\fi\textquotedblright}%
871 \fi
872 \addto\extrasfrench{\babel@save\og \babel@save\fg
873                         \bbbl@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...

```
874 \newcommand*{\ogi}{\FB@og}
875 \newcommand*{\fgi}{\FB@fg}
876 \newcommand*{\@ogi}{\ifmmode\hbox{\ogi}\else\ogi\fi}
877 \newcommand*{\@fgi}{\ifmmode\hbox{\fgi}\else\fgi\fi}
878 \newcommand*{\ogii}{\textquotedblleft}
879 \newcommand*{\fgii}{\textquotedblright}
880 \newcommand*{\@ogii}{\ifmmode\hbox{\ogii}\else\ogii\fi}
881 \newcommand*{\@fgii}{\ifmmode\hbox{\fgii}\else\fgii\fi}
```

and the needed technical stuff to handle options:

```
882 \newcount\FBguill@level
883 \newtoks\FBold@everypar
```

\FB@addquote@everypar was borrowed from *csquotes.sty*.

```
884 \def\FB@addquote@everypar{%
885   \let\FBnew@everypar\everypar
886   \FBold@everypar=\expandafter{\the\everypar}%
887   \FBnew@everypar={\the\FBold@everypar\FBeverypar@quote}%
888   \let\everypar\FBold@everypar
889   \let\FB@addquote@everypar\relax
890 }
891 \newif\iffBcloseguill \FBcloseguilltrue
892 \newif\iffBInnerGuillSingle
893 \def\FBguillopen{\bgroup\NoAutoSpacing\guillemotleft\egroup}
894 \def\FBguillclose{\bgroup\NoAutoSpacing\guillemotright\egroup}
895 \let\FBguillnone\empty
896 \let\FBeveryparguill\FBguillopen
897 \let\FBeverylineguill\FBguillnone
898 \let\FBeverypar@quote\relax
899 \let\FBeveryline@quote\empty
```

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

```
900 \ifLaTeXe
901   \DeclareRobustCommand\frquote{%
902     \texorpdfstring{@ifstar{\FBcloseguillfalse\fr@quote}{%
903       {\FBcloseguilltrue \fr@quote}}}{%
904       {\bm@fr@quote}}}
905   }
906   \newcommand{\bm@fr@quote}[1]{%
907     \guillemotleft\space #1\space\guillemotright}
908 \else
909   \newcommand\frquote[1]{\fr@quote{#1}}
910 \fi
```

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

```

911 \newcommand{\fr@quote}[1]{%
912   \leavevmode
913   \advance\FBguill@level by \@ne
914   \ifcase\FBguill@level
915     \or

```

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

```

916   \ifx\FBeveryparguill\FBguillnone
917   \else
918     \def\FBeverypar@quote{\FBeveryparguill\FB@guillspace}%
919     \FB@addquote@everypar
920   \fi
921   \og@ #1\fgi
922 \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.

```

923 \ifx\FBeverylineguill\FBguillopen
924   \def\FBeveryline@quote{\FB@addGUILspace=\z@
925   \guillemotleft\FBguillspace}%
926   \localleftbox{\FBeveryline@quote}%
927   \let\FBeverypar@quote\relax
928   \og@ #1\ifFBcloseguill\fgi\fi
929 \else
930   \ifx\FBeverylineguill\FBguillclose
931     \def\FBeveryline@quote{\FB@addGUILspace=\z@
932     \guillemotright\FBguillspace}%
933     \localleftbox{\FBeveryline@quote}%
934     \let\FBeverypar@quote\relax
935     \og@ #1\ifFBcloseguill\fgi\fi
936 \else

```

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

```

937   \let\FBeverypar@quote\relax
938   \iffBInnerGuillSingle
939     \def\ogii{\leavevmode
940       \guilsingleleft\FB@guillspace}%
941     \def\fgii{\ifdim\lastskip>\z@\unskip\fi
942       \FB@guillspace\guilsinglright}%
943     \ifx\FBeveryparguill\FBguillopen
944       \def\FBeverypar@quote{\guilsingleleft\FB@guillspace}%
945     \fi
946     \ifx\FBeveryparguill\FBguillclose
947       \def\FBeverypar@quote{\guilsinglright\FB@guillspace}%

```

```

948          \fi
949          \fi
950          \ogii #1\ifFBcloseguill \fgii \fi
951      \fi
952  \fi
953 \else
Warn if \FBguill@level > 2:
954  \ifx\PackageWarning@\undefined
955      \fb@warning{\noexpand\frquote}space handles up to
956          two levels.\ Quotation not printed.}%
957 \else
958     \PackageWarning{french.ldf}{%
959         \protect\frquote}space handles up to two levels.
960         \MessageBreak Quotation not printed. Reported}
961     \fi
962 \fi

```

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

```

963 \global\advance\FBguill@level by \m@ne
964 \ifcase\FBguill@level \global\let\FBeverypar@quote\relax
965 \or \gdef\FBeverypar@quote{\FBeveryparguill\FB@guillspace}%
966 \global\let\FBeverystartline@quote\empty
967 \ifx\FBeverystartline\FBguillnone\else\localleftbox{}\fi
968 \fi
969 }

```

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.

```
970 \newcommand*{\NoEveryParQuote}{\let\FBeveryparguill\FBguillnone}
```

## 2.4 Date in French

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

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

```

971 \def\BabelLanguages{french,acadian}
972 \StartBabelCommands*{\BabelLanguages}{date}

```

```

973     [unicode, fontenc=TU EU1 EU2, charset=utf8]
974     \SetString\monthiiname{février}
975     \SetString\monthviiiname{août}
976     \SetString\monthxiiname{décembre}
977 \StartBabelCommands*\{\BabelLanguages\}{date}
978     \SetStringLoop{month#1name}{%
979         janvier,f'evrier,mars,avril,mai,juin,juillet,%
980         ao\^ut,septembre,octobre,novembre,d'ecembre}
981     \SetString\today{\FB@date{\year}{\month}{\day}}
982 \EndBabelCommands

```

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

```

983 \newcommand*{\FB@date}[3]{%
984   {{\number#3}\ifnum1=#3{\ier}\fi\FBdatespace
985   \csname month\romannumerals#2name\endcsname
986   \ifx#1\empty\else\FBdatespace\number#1\fi}}
987 \newcommand*{\FBdatebox}{\hbox}
988 \newcommand*{\FBdatespace}{\space}
989 \newcommand*{\frenchdate}{\FBdatebox\FB@date}
990 \newcommand*{\acadiandate}{\FBdatebox\FB@date}

```

## 2.5 Extra utilities

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

\up \up eases the typesetting of superscripts like '1<sup>er</sup>'. Up to version 2.0 of babel-\fup french \up was just a shortcut for \textsupscript in LaTeX2e, but several users complained that \textsupscript typesets superscripts too high and too big, so we now define \fup as an attempt to produce better looking superscripts. \up is defined as \fup but \frenchsetup{FrenchSuperscripts=false} redefines \up as \textsupscript for compatibility with previous versions.  
When a font has built-in superscripts, the best thing to do is to just use them, otherwise \fup has to simulate superscripts by scaling and raising ordinary letters. Scaling is done using package scalefnt which will be loaded at the end of Babel's loading (babel-french being an option of Babel, it cannot load a package while being read).

```

991 \newif\iffB@poorman
992 \newdimen\FB@Mht
993 \ifLaTeXe
994   \AtEndOfPackage{\RequirePackage{scalefnt}}

```

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

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

```

995  \newcommand*\{FBsupR}{-0.12}
996  \newcommand*\{FBsupS}{0.65}
997  \newcommand*\{FB@lc}[1]{\MakeLowercase{\#1}}
998  \DeclareRobustCommand*\{FB@up@fake}[1]{%
999    \settoheight{\FB@Mht}{M}%
1000   \addtolength{\FB@Mht}{\FBsupR \FB@Mht}%
1001   \addtolength{\FB@Mht}{-\FBsupS ex}%
1002   \raisebox{\FB@Mht}{\scalefont{\FBsupS}{\FB@lc{\#1}}}}%
1003 }
```

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

\FB@up checks whether the current font is a Type1 ‘Expert’ (or ‘Pro’) font with real superscripts or not (the code works currently only with `fourier-1.6` but could work with any Expert Type1 font with built-in superscripts, see below), and decides to use real or fake superscripts. It works as follows: the content of \f@family (family name of the current font) is split by \FB@split into two pieces, the first three characters ('fut' for Fourier, 'ppl' for Adobe's Palatino, ...) stored in \FB@firstthree and the rest stored in \FB@suffix which is expected to be 'x' or 'j' for expert fonts.

```

1004  \def\FB@split#1#2#3#4@nil{\def\FB@firstthree{\#1#2#3}%
1005                                \def\FB@suffix{\#4}%
1006  \def\FB@x{x}
1007  \def\FB@j{j}
1008  \DeclareRobustCommand*\{FB@up}[1]{%
1009    \bgroup \FB@poormantrue
1010    \expandafter\FB@split\f@family@nil
```

Then \FB@up looks for a .fd file named `t1fut-sup.fd` (Fourier) or `t1ppl-sup.fd` (Palatino), etc. supposed to define the subfamily (fut-sup or ppl-sup, etc.) giving access to the built-in superscripts. If the .fd file is not found by \IfFileExists, \FB@up falls back on fake superscripts, otherwise \FB@suffix is checked to decide whether to use fake or real superscripts.

```

1011  \edef\reserved@a{\lowercase{%
1012    \noexpand\IfFileExists{\f@encoding\FB@firstthree -sup.fd}}}%
1013  \reserved@a
1014  {\ifx\FB@suffix\FB@x \FB@poormanfalse\fi
1015    \ifx\FB@suffix\FB@j \FB@poormanfalse\fi
1016    \ifFB@poorman \FB@up@fake{\#1}%
1017    \else      \FB@up@real{\#1}%
1018    \fi}%
1019  {\FB@up@fake{\#1}}%
```

```

1020      \egroup}
\FB@up@real just picks up the superscripts from the subfamily (and forces lowercase).
1021  \newcommand*{\FB@up@real}[1]{\bgroup
1022      \fontfamily{\FB@firstthree -sup}\selectfont \FB@lc{\#1}\egroup}
\up is defined as \FB@up unless \realsuperscript is defined by realscripts.sty.
\up just prints its argument in bookmarks.
1023  \DeclareRobustCommand*{\up}[1]{%
1024      \texorpdfstring{\ifx\realsuperscript\@undefined
1025          \FB@up{\#1}%
1026          \else
1027              \bgroup\let\fakesuperscript\FB@up@fake
1028                  \realsuperscript{\FB@lc{\#1}}\egroup
1029          \fi
1030      }{\#1}%
1031  }

```

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

```

1032  \providecommand*{\up}{\fakedup}
Poor man's definition of \up for Plain.
1033 \else
1034  \providecommand*{\up}[1]{\leavevmode\raise1ex\hbox{\sevenrm #1}}
1035 \fi

```

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

```

\ier 1036 \def\ieme{\up{e}\xspace}
\iere 1037 \def\iemes{\up{es}\xspace}
\iemes 1038 \def\ier{\up{er}\xspace}
\iers 1039 \def\iers{\up{ers}\xspace}
\ieres 1040 \def\iere{\up{re}\xspace}
1041 \def\ieres{\up{res}\xspace}

```

```

\FBmedkern
\FBthickkern 1042 \newcommand*{\FBmedkern}{\kern+.2em}
1043 \newcommand*{\FBthickkern}{\kern+.3em}

```

\primo Some support macros relying on \up for numbering,

\fprimo) 1044 \newcommand\*{\FrenchEnumerate}[1]{%
 \nos 1045 #1\texorpdfstring{\up{o}\FBthickkern}{\textdegree\space}}
 \Nos 1046 \newcommand\*{\FrenchPopularEnumerate}[1]{%
 \No 1047 #1\texorpdfstring{\up{o}}{\FBthickkern}{\textdegree\space}}
\No Typing \primo should result in '°' (except in bookmarks where \textdegree is used instead of o-superior),

```

1048 \def\primo{\FrenchEnumerate1}
1049 \def\secundo{\FrenchEnumerate2}
1050 \def\tertio{\FrenchEnumerate3}
1051 \def\quarto{\FrenchEnumerate4}

```

while typing `\fprimo` gives ‘<sup>o</sup>’ (except in bookmarks where `\textdegree` is used instead),.

```

1052 \def\fprimo{\FrenchPopularEnumerate1}
1053 \def\fsecundo{\FrenchPopularEnumerate2}
1054 \def\ftertio{\FrenchPopularEnumerate3}
1055 \def\fquarto{\FrenchPopularEnumerate4}

```

Let’s provide four macros for the common abbreviations of “Numéro”. In bookmarks <sup>o</sup> is used instead of o-superior.

```

1056 \DeclareRobustCommand*\{\No\}{%
1057   \texorpdfstring{N\up{o}}{FBmedkern}{N\textdegree\space}%
1058 \DeclareRobustCommand*\{\no\}{%
1059   \texorpdfstring{n\up{o}}{FBmedkern}{n\textdegree\space}%
1060 \DeclareRobustCommand*\{\Nos\}{%
1061   \texorpdfstring{N\up{os}}{FBmedkern}{N\textdegree\space}%
1062 \DeclareRobustCommand*\{\nos\}{%
1063   \texorpdfstring{n\up{os}}{FBmedkern}{n\textdegree\space}%

```

`\bname` These commands are meant to easily enter family names (in small capitals for the `\bsc` 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.

```

1064 \ifLaTeXe
1065   \DeclareRobustCommand*\{\bname}[1]{%
1066     \texorpdfstring{\leavevmode\begingroup\kern0pt #1\endgroup}{\#1}%
1067   }
1068 \DeclareRobustCommand*\{\bsc}[1]{%
1069   \texorpdfstring{\leavevmode\begingroup\kern0pt \scshape #1\endgroup}{%
1070     \textsc{\#1}}%
1071   }
1072 \else
1073   \newcommand*\{\bname}[1]{\leavevmode\begingroup\kern0pt #1\endgroup}
1074   \let\bsc\bname
1075 \fi

```

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

```

1076 \iffBunicode
1077   \providecommand*\{\textbackslash\}{\char"005C}%
1078   \providecommand*\{\textasciicircum\}{\char"005E}%

```

```

1079 \providecommand*\textasciitilde{{\char"007E}}
1080 \DeclareRobustCommand*\degree{°}
1081 \else
1082 \DeclareRobustCommand*\degree{\textdegree}
1083 \fi
1084 \DeclareRobustCommand*\boi{\textbackslash}
1085 \DeclareRobustCommand*\circonflexe{\textasciicircum}
1086 \DeclareRobustCommand*\tild{\textasciitilde}
1087 \newcommand*\at{@}

```

\degrees We now define a macro \degrees for typesetting the abbreviation for ‘degrees’ (as in ‘°C’ or ‘°K’) in text fonts which also works in math mode for angles.

```

1088 \DeclareRobustCommand*\degrees{\degree}
1089 \ifLaTeXe
1090 \AtBeginDocument{%
1091   \@ifpackageloaded{fontspec}{%
1092     \DeclareRobustCommand*\degree{%
1093       \texorpdfstring{\hbox{\UseTextSymbol{TS1}{\textdegree}}}{%
1094         \textdegree}}%
1095   }%
1096 }
1097 \fi

```

## 2.6 Formatting numbers

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

Unfortunately, \newcount inside \if breaks Plain formats.

```

1098 \newif\iffB@icomma
1099 \newcount\mc@charclass
1100 \newcount\mc@charfam
1101 \newcount\mc@charslot
1102 \newcount\std@mcc
1103 \newcount\dec@mcc
1104 \iffBLuaTeX
1105   \mc@charclass=\Umathcharclass`\",
1106   \newcommand*\dec@math@comma{%
1107     \mc@charfam=\Umathcharfam`\",
1108     \mc@charslot=\Umathcharslot`\",
1109     \Umathcode`\",= 0 \mc@charfam \mc@charslot
1110   }

```

```

1111 \newcommand*{\std@math@comma}{%
1112   \mc@charfam=\Umathcharfam`|,
1113   \mc@charslot=\Umathcharslot`|,
1114   \Umathcode`\",=\mc@charclass \mc@charfam \mc@charslot
1115 }
1116 \else
1117   \std@mcc=\mathcode`,
1118   \dec@mcc=\std@mcc
1119   \tempcnta=\std@mcc
1120   \divide\tempcnta by "1000
1121   \multiply\tempcnta by "1000
1122   \advance\dec@mcc by -\tempcnta
1123 \newcommand*{\dec@math@comma}{\mathcode`\",=\dec@mcc}
1124 \newcommand*{\std@math@comma}{\mathcode`\",=\std@mcc}
1125 \fi
1126 \let\dec@m@c\relax

```

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

```

1127 \newif\if@FBpreamble
1128 \ifLaTeXe \FBpreambletrue \fi
1129 \newif\if@preamble@DecimalMathComma
1130 \newcommand*{\DecimalMathComma}{%
1131   \if@FBpreamble \preamble@DecimalMathCommatrue
1132   \else
1133     \ifFB@icomma
1134       \PackageWarning{french.ldf}{%
1135         icomma package loaded, \protect\DecimalMathComma\MessageBreak
1136         does nothing. Reported}%
1137   \else
1138     \ifFBfrench
1139       \dec@math@comma
1140       \let\dec@m@c\dec@math@comma
1141       \expandafter\addto\csname extras\languagename\endcsname
1142         {\dec@m@c}%
1143     \fi
1144   \fi
1145 \fi
1146 }
1147 \newcommand*{\StandardMathComma}{%
1148   \ifFB@icomma
1149     \PackageWarning{french.ldf}{%
1150       icomma package loaded, \protect\StandardMathComma\MessageBreak
1151       does nothing. Reported}%
1152 \else
1153   \ifFBfrench

```

```

1154      \std@math@comma
1155      \let\dec@m@c\relax
1156    \fi
1157  \fi
1158 }

```

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

```

1159 \ifLaTeXe\else
1160   \addto\noextrasfrench{\std@math@comma}
1161 \fi

```

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

```

1162 \newcommand*\nombre[1]{{#1}\fb@warning{*** \noexpand\nombre
1163                               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.

```

1164 \ifFB@luatex@punct
1165   \activate@luatexpunct
1166 \fi
1167 \let\FBstop@here\relax
1168 \def\FBclean@on@exit{%
1169   \let\ifLaTeXe\iffalse
1170   \let\LaTeXetrue\undefined
1171   \let\LaTeXefalse\undefined
1172   \let\FB@llc\loadlocalcfg
1173   \let\loadlocalcfg@gobble}
1174 \ifx\magnification@\undefined
1175 \else
1176   \def\FBstop@here{%
1177     \FBclean@on@exit
1178     \ldf@finish\CurrentOption
1179     \let\loadlocalcfg\FB@llc
1180     \endinput}
1181 \fi
1182 \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 a French dialect. Can be canceled anytime by `\StandardMathComma`.

```

1183 \AtBeginDocument{%
1184   \@FBpreamblefalse
1185   \@ifpackageloaded{icomma}{%
1186     {\FB@icommatrue
1187       \if@preamble\DecimalMathComma

```

```

1188      \PackageWarning{french.1df}{%
1189      icomma package loaded, \protect\DecimalMathComma%
1190      \MessageBreak does nothing. Reported}%
1191      \fi
1192  }%
1193  {\if@preamble@DecimalMathComma
1194      \iffB@mainlanguage@FR \dec@math@comma \fi
1195      \let\dec@m@c\dec@math@comma
1196      \addto\extrasfrench{\dec@m@c}%
1197      \ifdefinable\extrasacadian
1198          \addto\extrasacadian{\dec@m@c}%
1199      \fi
1200  \fi

```

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

```

1201      \addto\noextrasfrench{\std@math@comma}%
1202      \ifdefinable\noextrasacadian
1203          \addto\noextrasacadian{\std@math@comma}%
1204      \fi
1205  }%
1206 }

```

`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.

```

1207 \renewcommand*{\nombre}[1]{\Warning@nombre{#1}}
1208 \newcommand*{\Warning@nombre}[1]{%
1209     \ifdefinable\numprint
1210         \numprint{#1}%
1211     \else
1212         \PackageWarning{french.1df}{%
1213             \protect\nombre\space now relies on package numprint.sty,%
1214             \MessageBreak add \protect
1215             \usepackage[autolanguage]{numprint}, \MessageBreak
1216             see file numprint.pdf for more options. \MessageBreak
1217             \protect\nombre\space called}%
1218         \global\let\Warning@nombre\relax
1219         {#1}%
1220     \fi
1221 }

```

```

1222 \newcommand*{\FBthousandsep}{\kern \fontdimen2\font \relax}

```

## 2.7 Caption names

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

\captionsfrench Let's first define \captionsfrench which sets all strings used in the four standard document classes provided with LaTeX.  
\figurename and \tablename are printed in small caps in French, unless either **SmallCapsFigTabCaptions** is set to **false** or a class or package loaded before babel-french defines \FBfigtabshape as \relax.

```
1223 \providecommand*\FBfigtabshape{\scshape}
```

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

```
1224 \StartBabelCommands*{\BabelLanguages}{captions}
1225   [unicode, fontenc=TU EU1 EU2, charset=utf8]
1226   \SetString{\refname}{Références}
1227   \SetString{\abstractname}{Résumé}
1228   \SetString{\prefacename}{Préface}
1229   \SetString{\contentsname}{Table des matières}
1230   \SetString{\ccname}{Copie à }
1231   \SetString{\proofname}{Démonstration}
1232   \SetString{\partfirst}{Première}
1233   \SetString{\partsecond}{Deuxième}
1234   \SetStringLoop{ordinal#1}{%
1235     \frenchpartfirst,\frenchpartsecond,Troisième,Quatrième,%
1236     Cinquième,Sixième,Septième,Huitième,Neuvième,Dixième,Onzième,%
1237     Douzième,Treizième,Quatorzième,Quinzième,Seizième,%
1238     Dix-septième,Dix-huitième,Dix-neuvième,Vingtième}
1239 \StartBabelCommands*{\BabelLanguages}{captions}
1240   \SetString{\refname}{R\ef\'erences}
1241   \SetString{\abstractname}{R\'esum\'e}
1242   \SetString{\bibname}{Bibliographie}
1243   \SetString{\prefacename}{Pr\'eface}
1244   \SetString{\chaptername}{Chapitre}
1245   \SetString{\appendixname}{Annexe}
1246   \SetString{\contentsname}{Table des mati`eres}
1247   \SetString{\listfigurename}{Table des figures}
1248   \SetString{\listtablename}{Liste des tableaux}
1249   \SetString{\indexname}{Index}
1250   \SetString{\figurename}{Figure}
1251   \SetString{\tablename}{Table}
1252   \SetString{\pagename}{page}
1253   \SetString{\seename}{voir}
1254   \SetString{\alsoname}{voir aussi}
1255   \SetString{\enclname}{P.\~J. }
1256   \SetString{\ccname}{Copie \`a }
1257   \SetString{\headtoname}{}
1258   \SetString{\proofname}{D\'emonstration}
```

```
1259 \SetString{\glossaryname}{Glossaire}
```

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`.

```
1260 \SetString{\partfirst}{Premi\`ere}
1261 \SetString{\partsecond}{Deuxi\`eme}
1262 \SetString{\partnameord}{partie}
1263 \SetStringLoop{ordinal#1}{%
1264   \partfirst,\partsecond,Troisi\`eme,Quatri\`eme, Cinqui\`eme,%
1265   Sisti\`eme,Septi\`eme,Huiti\`eme,Neuvi\`eme,Dixi\`eme,%
1266   Onzi\`eme,Douzi\`eme,Treizi\`eme,Quatorzi\`eme,Quinzi\`eme,%
1267   Seizi\`eme,Dix-septi\`eme,Dix-huiti\`eme,Dix-neuvi\`eme,%
1268   Vingt\`eme}
1269 \AfterBabelCommands{%
1270   \DeclareRobustCommand*\FB@emptypart{\def\thepart{\unskip}}%
1271   \DeclareRobustCommand*\FB@partname{%
1272     \iffFBPartNameFull
1273       \csname ordinal\romannumericalvalue{part}\endcsname\space
1274       \partnameord\FB@emptypart
1275     \else
1276       Partie%
1277     \fi}%
1278   }
1279 \SetString{\partname}{\FB@partname}
1280 \EndBabelCommands
```

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

```
1281 \AtBeginDocument{%
1282   \ifx\FBfigtabshape\relax
1283   \else
1284     \ifdef{\fnum@figure}
1285       \let\fnum@figureORI\fnum@figure
1286       \renewcommand{\fnum@figure}{{\iffBFfrench\FBfigtabshape\fi
1287                               \fnum@figureORI}}%
1288     \fi
1289     \ifdef{\fnum@table}
1290       \let\fnum@tableORI\fnum@table
1291       \renewcommand{\fnum@table}{{\iffBFfrench\FBfigtabshape\fi
1292                               \fnum@tableORI}}%
1293     \fi
1294   \fi
1295 }
```

## 2.8 Figure and table captions

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

1296 \newcommand{\FBWarning}[1]{\PackageWarning{french.1df}{#1}}

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

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

While saving the standard definition of \makecaption we have to make sure that characters ':' and '>' have \catcode 12 (**babel-french** makes ':' active and **spanish.1df** makes '>' active).

1297 \bgroup  
1298 \catcode`=: =12 \catcode`> =12 \relax  
1299 \long\gdef\STD@makecaption#1#2{  
1300 \vskip\abovecaptionskip  
1301 \sbox{\@tempboxa{#1: #2}}%  
1302 \ifdim \wd\@tempboxa >\hsize  
1303 #1: #2\par  
1304 \else  
1305 \global \minipagetrue  
1306 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%  
1307 \fi  
1308 \vskip\belowcaptionskip}  
1309 \egroup

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

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

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

Enable the standard warning only if high punctuation is active.

```

1310 \newif\if@FBwarning@capsep
1311 \iffB@active@punct\@FBwarning@capseptrue\fi
1312 \newcommand*\CaptionSeparator{\space\textrandash\space}
1313 \def\FBCaption@Separator{ : }
1314 \long\def\FB@makecaption#1#2{%
1315   \vskip\abovecaptionskip
1316   \sbox\@tempboxa{\#1\FBCaption@Separator #2}%
1317   \ifdim \wd\@tempboxa >\hsize
1318     #1\FBCaption@Separator #2\par
1319   \else
1320     \global \minipagetrue
1321     \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
1322   \fi
1323   \vskip\belowcaptionskip}

```

Disable the standard warning with AMS and SMF classes.

```

1324 \@ifclassloaded{amsart}{\@FBwarning@capsepfalse}{}
1325 \@ifclassloaded{amsbook}{\@FBwarning@capsepfalse}{}
1326 \@ifclassloaded{amsdtx}{\@FBwarning@capsepfalse}{}
1327 \@ifclassloaded{amsldoc}{\@FBwarning@capsepfalse}{}
1328 \@ifclassloaded{amproc}{\@FBwarning@capsepfalse}{}
1329 \@ifclassloaded{smfart}{\@FBwarning@capsepfalse}{}
1330 \@ifclassloaded{smfbook}{\@FBwarning@capsepfalse}{}

```

Disable the standard warning for some classes that do not use ‘:’ as caption separator.

```

1331 \@ifclassloaded{IEEEconf}{\@FBwarning@capsepfalse}{}
1332 \@ifclassloaded{IEEEtran}{\@FBwarning@capsepfalse}{}
1333 \@ifclassloaded{revtex4-2}{\@FBwarning@capsepfalse}{}
1334 \@ifclassloaded{svjour3}{\@FBwarning@capsepfalse}{}

```

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

```

1335 \@ifclassloaded{memoir}{\@FBwarning@capsepfalse}{}
1336 \iffB@koma \@FBwarning@capsepfalse \fi

```

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

```

1337 \@ifclassloaded{beamer}{\@FBwarning@capsepfalse}{}
1338 \ifdefined\@makecaption\else\@FBwarning@capsepfalse\fi

```

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

```

1339 \AtBeginDocument{%
1340   \ifx\@makecaption\STD@makecaption

```

```
1341 \global\let\@makecaption\FB@makecaption
```

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

```
1342 \iffBOldFigTabCaptions
1343 \else
1344   \def\FBCaption@Separator{{\autospace@beforeFDP : }}%
1345   \iffBCustomiseFigTabCaptions
1346     \iffB@mainlanguage@FR
1347       \def\FBCaption@Separator{\CaptionSeparator}%
1348     \fi
1349   \fi
1350 \fi
1351 \@FBwarning@capsepfalse
1352 \fi
```

No Warning if **caption.sty** or **caption-light.sty** has been loaded.

```
1353 \@ifpackageloaded{caption}{\@FBwarning@capsepfalse}{}%
1354 \@ifpackageloaded{caption-light}{\@FBwarning@capsepfalse}{}%
```

Final warning if relevant:

```
1355 \if@FBwarning@capsep
1356   \FBWarning
1357   {Figures' and tables' captions might look like\MessageBreak
1358   'Figure 1:' in French instead of `Figure 1 :'.\MessageBreak
1359   If this happens, to fix this issue\MessageBreak
1360   switch to LuaLaTeX or XeLaTeX or\MessageBreak
1361   try to add \protect\usepackage{caption} or\MessageBreak
1362   ... leave it as it is; reported}%
1363 \fi
1364 \let\FB@makecaption\relax
1365 \let\STD@makecaption\relax
1366 }
```

## 2.9 Dots...

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

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

```
1367 \iffBunicode
```

```

1368 \else
1369   \DeclareTextSymbol{\FBtextellipsis}{LY1}{133}
1370   \DeclareTextCommand{\FBtextellipsis}{PU}{\textellipsis}
1371   \DeclareTextCommand{\FBtextellipsis}{PD1}{\textellipsis}
1372   \DeclareTextCommandDefault{\FBtextellipsis}{%
1373     .\kern\fontdimen3\font.\kern\fontdimen3\font.\xspace}%
1374   \def\bbl@frenchdots{\bbl@save\textellipsis
1375                         \let\textellipsis\FBtextellipsis}
1376   \addto\extrasfrench{\bbl@frenchdots}
1377 \fi

```

## 2.10 More checks about packages' loading order

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

```

1378 \ifFB@active@punct
1379   \@ifpackageloaded{listings}
1380     {\AtBeginDocument{%
1381       \FBWarning{Please load the "listings" package\MessageBreak
1382                   AFTER babel/french; reported}}%
1383     }{}}
1384 \fi

```

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

```

1385 \newif\if@FBwarning@natbib
1386 \ifFB@active@punct
1387   \@ifpackageloaded{natbib}{}{\@FBwarning@natbibtrue}
1388 \fi
1389 \AtBeginDocument{%
1390   \if@FBwarning@natbib
1391     \@ifpackageloaded{natbib}{}{\@FBwarning@natbibfalse}%
1392   \fi
1393   \if@FBwarning@natbib
1394     \FBWarning{Please load the "natbib" package\MessageBreak
1395                   BEFORE babel/french; reported}%
1396   \fi
1397 }

```

Package `beamerarticle` should be loaded before `babel-french` to avoid list's conflicts, see p. 60.

```

1398 \newif\if@FBwarning@beamerarticle
1399 \@ifpackageloaded{beamerarticle}{}{\@FBwarning@beamerarticletrue}
1400 \AtBeginDocument{%
1401   \if@FBwarning@beamerarticle
1402     \@ifpackageloaded{beamerarticle}{}%

```

```

1403           {\@FBwarning@beamerarticlefalse}%
1404   \fi
1405   \if@FBwarning@beamerarticle
1406       \FBWarning{Please load the "beamerarticle" package\MessageBreak
1407                   BEFORE babel/french; reported}%
1408   \fi
1409 }

```

## 2.11 Setup options: key/value stuff (ltkeys)

All setup options are handled by command `\frenchsetup{}` based on the `ltkeys`\\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 ‘AtBeginDocument’; any option affecting `\extrasfrench{}`` must be immediately processed by `\frenchsetup{}``: when French is the main language, `\extrasfrench{}`` is executed by Babel when it switches the main language and this occurs *before* reading the stuff postponed by `babel-french` ‘AtBeginDocument’. Reexecuting `\extrasfrench{}`` is not an option because of its side-effects (f.i. `\babel@save` and `\babel@savevariable` did not work for French).

We first define a collection of conditionals and set their defaults (true or false).

```

1410 \newif\iffBShowOptions
1411 \newif\iffBStandardLayout          \FBStandardLayouttrue
1412 \newif\iffBGlobalLayoutFrench      \FBGlobalLayoutFrenchtrue
1413 \newif\iffBStandardListSpacing    \FBStandardListSpacingtrue
1414 \newif\iffBListOldLayout
1415 \newif\iffBListItemsAsPar
1416 \newif\iffBCompactItemize
1417 \newif\iffBStandardItemizeEnv     \FBStandardItemizeEnvtrue
1418 \newif\iffBStandardItemizeEnv     \FBStandardItemizeEnvtrue
1419 \newif\iffBStandardItemLabels    \FBStandardItemLabelstrue
1420 \newif\iffBStandardLists          \FBStandardListstrue
1421 \newif\iffBIndentFirst
1422 \newif\iffBFrenchFootnotes
1423 \newif\iffBAutoSpaceFootnotes
1424 \newif\iffBOriginalTypewriter
1425 \newif\iffBThinColonSpace
1426 \newif\iffBThinSpaceInFrenchNumbers
1427 \newif\iffBFrenchSuperscripts    \FBFrenchSuperscriptstrue
1428 \newif\iffBLowercaseSuperscripts \FBLowercaseSuperscriptstrue
1429 \newif\iffBPartNameFull          \FBPartNameFulltrue
1430 \newif\iffBCustomiseFigTabCaptions
1431 \newif\iffBOldFigTabCaptions
1432 \newif\iffBSmallCapsFigTabCaptions \FBSmallCapsFigTabCaptionstrue

```

```

1433 \newif\iffBSuppressWarning
1434 \newif\iffBINGuillSpace

```

The following patch is for koma-script classes: the `\partformat` command, defined as `\partname~\thepart\autodot`, is incompatible with our redefinition of `\partname`.

```

1435 \iffB@koma
1436   \ifdef\partformat
1437     \def\FB@partformat@fix{%
1438       \ifFBPartNameFull
1439         \babel@save\partformat
1440         \renewcommand*\{\partformat}{\partname}%
1441       \fi}
1442     \addto\extrasfrench{\FB@partformat@fix}%
1443   \fi
1444 \fi

```

The defaults values of these flags are chosen so that `babel-french` does not change anything regarding the global layout. Some of them must be toggled when French (or a French dialect) 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` checking 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 2.10; a light customisation is compatible with the `beamerarticle` package.

```

1445 \def\FB@french{french}
1446 \def\FB@acadian{acadian}
1447 \newif\iffB@mainlanguage@FR
1448 \AtEndOfPackage{%
1449   \ifx\bbl@main@language\FB@french \FB@mainlanguage@FRtrue
1450   \else \ifx\bbl@main@language\FB@acadian \FB@mainlanguage@FRtrue \fi
1451   \fi
1452   \iffB@mainlanguage@FR
1453     \FBGlobalLayoutFrenchtrue
1454     \@ifclassloaded{beamer}%
1455       {\PackageInfo{french.ldf}{%
1456         No list customisation for the beamer class,%
1457         \MessageBreak reported}}%
1458     {\@ifpackageloaded{beamerarticle}%
1459       {\FBStandardItemLabelsfalse
1460        \FBStandardListSpacingfalse
1461        \PackageInfo{french.ldf}{%
1462          Minimal list customisation for the beamerarticle%
1463          \MessageBreak package; reported}}%

```

Otherwise customise lists “à la française”:

```
1464      {\FBStandardListSpacingfalse
1465          \FBStandardItemizeEnvfalse
1466          \FBStandardEnumerateEnvfalse
1467          \FBStandardItemLabelsfalse}%
1468      }
1469      \FBIndentFirsttrue
1470      \FBFrenchFootnotestrue
1471      \FBAutoSpaceFootnotestrue
1472      \FBCustomiseFigTabCaptionstrue
1473  \fi
1474 }
```

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

```
1475 \DeclareKeys[FBsetup]
1476 {
1477     ShowOptions.if          = FBShowOptions           ,
1478     StandardLayout.default:n = {true}                ,
1479     StandardLayout.code     = \FBStandardLayout@setup{\#1} ,
1480     GlobalLayoutFrench.default:n = {true}            ,
1481     GlobalLayoutFrench.code = \FBGlobalLayout@setup{\#1} ,
1482     StandardListSpacing.if = FBStandardListSpacing   ,
1483     ReduceListSpacing.ifnot = FBStandardListSpacing   ,
1484     ListOldLayout.default:n = {true}                ,
1485     ListOldLayout.code     = \FBListOldLayout@setup{\#1} ,
1486     CompactItemize.default:n = {true}               ,
1487     CompactItemize.code    = \FBCompactItemize@setup{\#1} ,
1488     StandardItemizeEnv.if = FBStandardItemizeEnv   ,
1489     StandardEnumerateEnv.if = FBStandardEnumerateEnv ,
1490     StandardItemLabels.if = FBStandardItemLabels   ,
1491     ItemLabels.store       = \FrenchLabelItem        ,
1492     ItemLabeli.store       = \Frlabelitemi         ,
1493     ItemLabelii.store      = \Frlabelitemii        ,
1494     ItemLabeliii.store     = \Frlabelitemiii       ,
1495     ItemLabeliv.store      = \Frlabelitemiv        ,
1496     StandardLists.default:n = {true}               ,
1497     StandardLists.code     = \FBStandardLists@setup{\#1} ,
1498     ListItemsAsPar.if     = FBListItemsAsPar       ,
1499     IndentFirst.if         = FBIndentFirst         ,
1500     FrenchFootnotes.if    = FBFrenchFootnotes     ,
1501     AutoSpaceFootnotes.if = FBAutoSpaceFootnotes   ,
1502     AutoSpacePunctuation.if = FBAutoSpacePunctuation ,
1503     OriginalTypewriter.if = FBOriginalTypewriter  ,
1504     ThinColonSpace.default:n = {true}              ,
1505     ThinColonSpace.code    = \FBThinColonSpace@setup{\#1} ,
1506     ThinSpaceInFrenchNumbers.if = FBThinSpaceInFrenchNumbers ,
1507     FrenchSuperscripts.if = FBFrenchSuperscripts   ,
```

```

1508 LowercaseSuperscripts.if      = FBLowercaseSuperscripts      ,
1509 PartNameFull.if              = FBPartNameFull              ,
1510 CustomiseFigTabCaptions.if  = FBCustomiseFigTabCaptions  ,
1511 OldFigTabCaptions.default:n = {true}                         ,
1512 OldFigTabCaptions.code       = \FBOldFigTabCaptions@setup{\#1} ,
1513 SmallCapsFigTabCaptions.default:n = {true}                     ,
1514 SmallCapsFigTabCaptions.code = \FBSmallCapsFigTabCaptions@setup{\#1} ,
1515 SuppressWarning.default:n   = {true}                         ,
1516 SuppressWarning.code        = \FBSuppressWarning@setup{\#1} ,
1517 INGuillSpace.default:n     = {true}                         ,
1518 INGuillSpace.code          = \FBINGuillSpace@setup{\#1} ,
1519 InnerGuillSingle.if        = FBInnerGuillSingle           ,
1520 EveryParGuill.default:n    = {open}                          ,
1521 EveryParGuill.code         = \FBEveryParGuill@setup{\#1} ,
1522 EveryLineGuill.default:n   = {open}                          ,
1523 EveryLineGuill.code        = \FBEveryLineGuill@setup{\#1} ,
1524 UnicodeNoBreakSpaces.default:n = {true}                     ,
1525 UnicodeNoBreakSpaces.code  = \FBUnicodeNoBreakSpaces@setup{\#1} ,
1526 og.code                    = \FBog@setup{\#1}               ,
1527 fg.code                    = \FBfg@setup{\#1}               ,
1528 }

```

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

```

1529 \newcommand*{\frenchsetup}[1]{%
1530   \SetKeys[FBsetup]{#1}%
1531 }%
1532 \onlypreamble\frenchsetup

```

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

```

1533 \let\frenchbsetup\frenchsetup
1534 \onlypreamble\frenchbsetup

```

The following commands, defined with property `.code` in `DeclareKeys{}`, execute some post-treatment required to immediately take the flags value into account.

```

1535 \newcommand*{\FBStandardLayout@setup}[1]%
1536   {\ifFB@mainlanguage@FR
1537     \csname FBStandardLayout\#1\endcsname
1538   \else
1539     \PackageWarning{french.ldf}{%
1540       Option `StandardLayout' skipped:\MessageBreak
1541       French is *not* babel's last option.\MessageBreak
1542       Reported}%
1543   \fi
1544 \ifFBStandardLayout
1545   \FBStandardListSpacingtrue
1546   \FBStandardItemizeEnvtrue

```

```

1547   \FBStandardItemLabelstrue
1548   \FBStandardEnumerateEnvtrue
1549   \FBIndentFirstfalse
1550   \FBFrenchFootnotesfalse
1551   \FBAutoSpaceFootnotesfalse
1552 \else
1553   \FBStandardListSpacingfalse
1554   \FBStandardItemizeEnvfalse
1555   \FBStandardItemLabelsfalse
1556   \FBStandardEnumerateEnvfalse
1557   \FBIndentFirsttrue
1558   \FBFrenchFootnotestrue
1559   \FBAutoSpaceFootnotestrue
1560 \fi
1561 }
1562 \newcommand*{\FBGlobalLayout@setup}[1]%
1563 {\ifFB@mainlanguage@FR
1564   \csname FBGlobalLayoutFrench\endcsname
1565 \else
1566   \PackageWarning{french.1df}%
1567   {Option `GlobalLayoutFrench' skipped:\MessageBreak
1568     French is *not* babel's last option.\MessageBreak
1569     Reported}%
1570 \fi
1571 }
1572 \newcommand*{\FB@ListOldLayout@setup}[1]%
1573 {\csname FBListOldLayout\endcsname
1574 \ifFBListOldLayout
1575   \FBStandardEnumerateEnvtrue
1576   \renewcommand*{\FrenchLabelItem}{\textendash}%
1577 \fi
1578 }
1579 \newcommand*{\FB@CompactItemize@setup}[1]%
1580 {\csname FBCompactItemize\endcsname
1581 \ifFBCompactItemize
1582   \FBStandardItemizeEnvfalse
1583   \FBStandardEnumerateEnvfalse
1584 \else
1585   \FBStandardItemizeEnvtrue
1586   \FBStandardEnumerateEnvtrue
1587 \fi
1588 }
1589 \newcommand*{\FBStandardLists@setup}[1]%
1590 {\csname FBStandardLists\endcsname
1591 \ifFBStandardLists
1592   \FBStandardListSpacingtrue

```

```

1593     \FBStandardItemizeEnvtrue
1594     \FBStandardEnumerateEnvtrue
1595     \FBStandardItemLabelstrue
1596 \else
1597     \FBStandardListSpacingfalse
1598     \FBStandardItemEnvfalse
1599     \FBStandardEnumerateEnvfalse
1600     \FBStandardItemLabelsfalse
1601 \fi
1602 }
1603 \newcommand*{\FBThinColonSpace@setup}[1]%
1604 { \csname FBThinColonSpace#1\endcsname
1605   \ifFBThinColonSpace
1606     \renewcommand*{\FBcolonspace}{\FBthinspace}%
1607   \fi
1608 }
1609 \newcommand*{\FBOldFigTabCaptions@setup}[1]%
1610 { \csname FBOldFigTabCaptions#1\endcsname
1611   \ifFBOldFigTabCaptions
1612     \def\FB@capsep@fix{\babel@save\FCaption@Separator
1613       \def\FCaption@Separator{\CaptionSeparator}}%
1614       \addto\extrasfrench{\FB@capsep@fix}%
1615       \ifdef\extrasacadian
1616         \addto\extrasacadian{\FB@capsep@fix}%
1617     \fi
1618   \fi
1619 }
1620 \newcommand*{\FBSmallCapsFigTabCaptions@setup}[1]%
1621 { \csname FBSmallCapsFigTabCaptions#1\endcsname
1622   \ifFBSmallCapsFigTabCaptions
1623   \else
1624     \let\FBfigtabshape\relax
1625   \fi
1626 }
1627 \newcommand*{\FBSuppressWarning@setup}[1]%
1628 { \csname FBSuppressWarning#1\endcsname
1629   \ifFBSuppressWarning
1630     \renewcommand{\FBWarning}[1]{}%
1631   \fi
1632 }
1633 \newcommand*{\FBINGuillSpace@setup}[1]%
1634 { \csname FBINGuillSpace#1\endcsname
1635   \ifFBINGuillSpace
1636     \renewcommand*{\FBguillspace}{\space}%
1637   \fi
1638 }

```

```

1639 \newcommand*{\FBEveryParGuill@setup}[1]%
1640   {\expandafter\let\expandafter
1641     \FBeveryparguill\csname FBguill#1\endcsname
1642   \ifx\FBeveryparguill\FBguillopen
1643   \else\ifx\FBeveryparguill\FBguillclose
1644     \else\ifx\FBeveryparguill\FBguillnone
1645       \else
1646         \let\FBeveryparguill\FBguillopen
1647         \FBWarning{Wrong value for `EveryParGuill':
1648             try `open', \MessageBreak
1649             `close' or `none'. Reported}%
1650       \fi
1651     \fi
1652   \fi
1653 }
1654 \newcommand*{\FBEveryLineGuill@setup}[1]%
1655   {\ifFB@luatex@punct
1656     \expandafter\let\expandafter
1657       \FBeverystrike\csname FBguill#1\endcsname
1658     \ifx\FBeverystrike\FBguillopen
1659     \else\ifx\FBeverystrike\FBguillclose
1660       \else\ifx\FBeverystrike\FBguillnone
1661         \else
1662           \let\FBeverystrike\FBguillnone
1663           \FBWarning{Wrong value for `EveryLineGuill':
1664               try `open', \MessageBreak
1665               `close' or `none'. Reported}%
1666         \fi
1667       \fi
1668     \fi
1669   \else
1670     \FBWarning{Option `EveryLineGuill' skipped:%
1671         \MessageBreak this option is for
1672         LuaTeX *only*. \MessageBreak Reported}%
1673   \fi
1674 }

```

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

```

1675 \newcommand*{\FBUnicodeNoBreakSpaces@setup}[1]%
1676   {\ifFB@luatex@punct
1677     \csname FBucsNBSP#1\endcsname
1678     \ifFBucsNBSP \FB@ucsNBSP=\@ne \fi
1679   \else
1680     \FBWarning{Option `UnicodeNoBreakSpaces' skipped:%
1681         \MessageBreak this option is for

```

```

1682           LuaTeX *only*. \MessageBreak Reported}%
1683     \fi
1684   }%

```

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

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

```

1685 \def\FB@parse#1#2\endparse{\def\FB@second{#2}%
1686 \newcommand*{\FB@@og}{%
1687   \iffBFfrench
1688     \ifFB@spacing \FB@og\ignorespaces
1689     \else \guillemotleft
1690   \fi
1691   \else \guillemotleft
1692   \fi
1693 }
1694 \newcommand*{\FB@@fg}{%
1695   \iffBFfrench
1696     \ifFB@spacing \FB@fg
1697     \else \guillemotright
1698   \fi
1699   \else \guillemotright
1700   \fi
1701 }
1702 \newcommand*{\FBog@setup}[1]{%
1703   \iffBunicode

```

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

```

1704   \iffB@luatex@punct
1705     \FB@addGUILspace=1 \relax
1706   \fi

```

then with XeTeX it is a bit more tricky:

```

1707   \iffB@xetex@punct

```

`\XeTeXinterchartokenstate` is defined, we just need to set `\XeTeXcharclass` to

\FB@guilo for the French opening quote in T1 and Unicode encoding (see subsection 2.2).

```
1708      \XeTeXcharclass"13  = \FB@guilo
1709      \XeTeXcharclass"AB  = \FB@guilo
1710      \XeTeXcharclass"A0  = \FB@guilnul
1711      \XeTeXcharclass"202F = \FB@guilnul
1712      \fi
```

Issue a warning with older Unicode engines requiring active characters.

```
1713      \iffB@active@punct
1714          \FBWarning{Option og=< not supported with this version of
1715                      MessageBreak LuaTeX/XeTeX; reported}%
1716      \fi
1717  \else
```

This is for conventional TeX engines:

```
1718  \AtBeginDocument{%
1719      \ifdefined\uc@dclc
```

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

```
1720      \uc@dclc{171}{default}{\FB@@og}%
1721  \else
```

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

```
1722      \FB@parse#1\endparse
1723      \ifx\FB@second\@empty
```

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

```
1724      \ifdefined\mule@def
1725          \mule@def{11}{\FB@@og}%
1726      \else
1727          \ifdefined\DeclareInputText
1728              \@tempcnta`#1\relax
1729              \DeclareInputText{\the\@tempcnta}{\FB@@og}%
1730      \else
```

Package inputenc not loaded, no way...

```
1731          \FBWarning{Option `og' requires package
1732                          inputenc; \MessageBreak reported}%
1733      \fi
1734  \fi
1735  \else
```

This means multi-byte character encoding, we assume UTF-8

```
1736          \DeclareUnicodeCharacter{00AB}{\FB@@og}%
1737      \fi
1738  \fi}%
1739  \fi
1740 }
```

Same code for the closing quote.

```
1741 \newcommand*{\FBfg@setup}[1]%
1742   {\ifFBunicode
1743     \ifFB@luatex@punct
1744       \FB@addGUILspace=1 \relax
1745     \fi
1746     \ifFB@xetex@punct
1747       \XeTeXcharclass"14 = \FB@guilf
1748       \XeTeXcharclass"BB = \FB@guilf
1749       \XeTeXcharclass"A0 = \FB@guilnul
1750       \XeTeXcharclass"202F = \FB@guilnul
1751     \fi
1752     \ifFB@active@punct
1753       \FBWarning{Option fg=> not supported with this version of
1754                   \MessageBreak LuaTeX/XeTeX; reported}%
1755     \fi
1756   \else
1757     \AtBeginDocument{%
1758       \ifdefinable\uc@dclc
1759         \uc@dclc{187}{default}{\FB@@fg}%
1760       \else
1761         \FB@parse#1\endparse
1762         \ifx\FB@second\@empty
1763           \ifdefinable\mule@def
1764             \mule@def{27}{{\FB@@fg}}%
1765           \else
1766             \ifdefinable\DeclareInputText
1767               \tempcnta`#1\relax
1768               \DeclareInputText{\the\tempcnta}{\FB@@fg}%
1769             \else
1770               \FBWarning{Option `fg' requires package
1771                           inputenc; \MessageBreak reported}%
1772             \fi
1773           \fi
1774         \else
1775           \DeclareUnicodeCharacter{00BB}{\FB@@fg}%
1776         \fi
1777       \fi}%
1778     \fi
1779   }
1780 % \end{macro}
1781 %
1782 % \begin{macro}{\FBprocess@options}
1783 %   |\FBprocess@options| will be executed at |\begin{document}|:
1784 %   it first checks about packages loaded in the preamble (possibly
1785 %   after \babel) which customise lists: currently \pkg{enumitem},
```

```

1786% \pkg{paralist} and \pkg{enumerate}; then it processes the options
1787% as set by \fbsetup{} or forced for compatibility with packages
1788% loaded in the preamble.
1789%
1790% When French is the main language, |\extrasfrench| and
1791% |\captionsfrench| \emph{have already been processed} by \babel{}%
1792% at |\begin{document}| \emph{before} |\FBprocess@options|.
1793% \begin{macrocode}
1794 \newcommand*\{|\FBprocess@options}\{%
Update flags if a package customising lists has been loaded, currently: enumitem,
paralist, enumerate.

1795  \@ifpackageloaded{enumitem}\{%
1796    \ifFBStandardItemizeEnv
1797    \else
1798      \FBStandardItemizeEnvtrue
1799      \PackageInfo{french.ldf}\%
1800        {Setting StandardItemizeEnv=true for\MessageBreak
1801          compatibility with enumitem package,\MessageBreak
1802          reported}\%
1803    \fi
1804    \ifFBStandardEnumerateEnv
1805    \else
1806      \FBStandardEnumerateEnvtrue
1807      \PackageInfo{french.ldf}\%
1808        {Setting StandardEnumerateEnv=true for\MessageBreak
1809          compatibility with enumitem package,\MessageBreak
1810          reported}\%
1811    \fi}\}%
1812  \@ifpackageloaded{paralist}\{%
1813    \ifFBStandardItemizeEnv
1814    \else
1815      \FBStandardItemizeEnvtrue
1816      \PackageInfo{french.ldf}\%
1817        {Setting StandardItemizeEnv=true for\MessageBreak
1818          compatibility with paralist package,\MessageBreak
1819          reported}\%
1820    \fi
1821    \ifFBStandardEnumerateEnv
1822    \else
1823      \FBStandardEnumerateEnvtrue
1824      \PackageInfo{french.ldf}\%
1825        {Setting StandardEnumerateEnv=true for\MessageBreak
1826          compatibility with paralist package,\MessageBreak
1827          reported}\%
1828    \fi}\}%
1829  \@ifpackageloaded{enumerate}\{%

```

```

1830     \iffBStandardEnumerateEnv
1831     \else
1832         \FBStandardEnumerateEnvtrue
1833         \PackageInfo{french.ldf}{%
1834             {Setting StandardEnumerateEnv=true for \MessageBreak
1835             compatibility with enumerate package, \MessageBreak
1836             reported}%
1837     \fi}{}%

```

Reset `\FB@uf1`'s normal meaning and update lists' settings now in case French is the main language:

```

1838 \def\FB@uf1{\update@frenchlists}
1839 \iffB@mainlanguage@FR
1840     \update@frenchlists
1841 \else
1842     \iffBStandardItemizeEnv
1843     \else
1844         \PackageWarning{french.ldf}{%
1845             {babel-french will not customise lists' layout \MessageBreak
1846             when French is not the main language, \MessageBreak
1847             reported}%
1848     \fi
1849 \fi

```

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

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

```

1850 \iffBAutoSpacePunctuation
1851     \autospace@beforeFDP
1852 \else
1853     \noautospace@beforeFDP
1854 \fi

```

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

```

1855 \iffBOriginalTypewriter
1856 \else
1857     \let\ttfamilyORI\ttfamily
1858     \let\rmfamilyORI\rmfamily
1859     \let\sffamilyORI\sffamily
1860     \let\ttfamily\ttfamilyFB
1861     \let\rmfamily\rmfamilyFB
1862     \let\sffamily\sffamilyFB

```

```
1863 \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.

```
1864 \@ifpackageloaded{numprint}%
1865   {\ifnprt@autolanguage
1866     \providecommand*{\npstylefrench}{}%
1867     \iffBThinSpaceInFrenchNumbers
1868       \renewcommand*{\FBthousandsep}{\FBthinspace}%
1869     \fi
1870     \g@addto@macro\npstylefrench{\npthousandsep{\FBthousandsep}}%
1871   \fi
1872 }{}%
```

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

```
1873 \iffBFrenchSuperscripts
1874   \DeclareRobustCommand*{\up}%
1875   {\texorpdfstring{\@ifstar{\FB@up@fake}{\fup}}{}}
1876 }
1877 \else
1878   \DeclareRobustCommand*{\up}%
1879   {\texorpdfstring{\@ifstar{\FB@up@fake}{\textsuperscript}}{}}
1880 }
1881 \fi
```

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

```
1882 \iffBLowercaseSuperscripts
1883 \else
1884   \renewcommand*{\FB@lc}[1]{##1}%
1885 \fi
```

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

```
1886 \iffB@koma
1887   \ifx\captionformat\FB@std@capsep
1888   \iffBCustomiseFigTabCaptions
1889     \renewcommand*{\captionformat}{\CaptionSeparator}%
1890   \else
1891     \renewcommand*{\captionformat}{{\autospace@beforeFDP :\ }}%
1892   \fi
1893 \fi
```

```

1894 \fi
1895 \@ifclassloaded{memoir}%
1896   {\ifx\@contdelim\FB@std@capsep
1897     \iffBCustomiseFigTabCaptions
1898       \captiondelim{\CaptionSeparator}%
1899     \else
1900       \captiondelim{{\autospace@beforeFDP : }}%
1901     \fi
1902   \fi}{}%
1903 \@ifclassloaded{beamer}%
1904   {\protected@edef\FB@capsep{%
1905     \csname beamer@@tmpl@caption label separator\endcsname}%
1906     \ifx\FB@capsep\FB@std@capsep
1907       \iffBCustomiseFigTabCaptions
1908         \defbeamertemplate{caption label separator}{FBcustom}{%
1909           \CaptionSeparator}%
1910         \setbeamertemplate{caption label separator}[FBcustom]%
1911       \else
1912         \defbeamertemplate{caption label separator}{FBcolon}{%
1913           {\autospace@beforeFDP : }}%
1914         \setbeamertemplate{caption label separator}[FBcolon]%
1915       \fi
1916   \fi}{}%

```

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

```

1917 \iffBShowOptions
1918   \GenericWarning{* }{%
1919     *** List of possible options for babel-french ***\MessageBreak
1920     [Default values between brackets when french is loaded *LAST*]%
1921     \MessageBreak
1922     ShowOptions [false]\MessageBreak
1923     StandardLayout [false]\MessageBreak
1924     GlobalLayoutFrench [true]\MessageBreak
1925     PartNameFull [true]\MessageBreak
1926     IndentFirst [true]\MessageBreak
1927     ListItemsAsPar [false]\MessageBreak
1928     StandardListSpacing [false]\MessageBreak
1929     StandardItemizeEnv [false]\MessageBreak
1930     StandardEnumerateEnv [false]\MessageBreak
1931     StandardItemLabels [false]\MessageBreak
1932     ItemLabels=\textemdash, \textbullet,
1933       \protect\ding{43},... [\textendash]\MessageBreak
1934     ItemLabeli=\textemdash, \textbullet,
1935       \protect\ding{43},... [\textendash]\MessageBreak
1936     ItemLabelii=\textemdash, \textbullet,
1937       \protect\ding{43},... [\textendash]\MessageBreak
1938     ItemLabeliii=\textemdash, \textbullet,

```

```

1939      \protect\ding{43},... [\textendash]\MessageBreak
1940      ItemLabeliv=\textemdash, \textbullet,
1941          \protect\ding{43},... [\textendash]\MessageBreak
1942      StandardLists [false]\MessageBreak
1943      ListOldLayout [false]\MessageBreak
1944      FrenchFootnotes [true]\MessageBreak
1945      AutoSpaceFootnotes [true]\MessageBreak
1946      AutoSpacePunctuation [true]\MessageBreak
1947      ThinColonSpace [false]\MessageBreak
1948      OriginalTypewriter [false]\MessageBreak
1949      UnicodeNoBreakSpaces [false]\MessageBreak
1950      og= <left quote character>, fg= <right quote character>%
1951      INGuillSpace [false]\MessageBreak
1952      EveryParGuill=open, close, none [open]\MessageBreak
1953      EveryLineGuill=open, close, none
1954          [open in LuaTeX, none otherwise]\MessageBreak
1955      InnerGuillSingle [false]\MessageBreak
1956      ThinSpaceInFrenchNumbers [false]\MessageBreak
1957      SmallCapsFigTabCaptions [true]\MessageBreak
1958      CustomiseFigTabCaptions [true]\MessageBreak
1959      OldFigTabCaptions [false]\MessageBreak
1960      FrenchSuperscripts [true]\MessageBreak
1961      LowercaseSuperscripts [true]\MessageBreak
1962      SuppressWarning [false]\MessageBreak
1963      \MessageBreak
1964      ****%
1965      \MessageBreak\protect\frenchsetup{ShowOptions}}
1966  \fi
1967 }

```

At `\begin{document}`, we have to provide an `\xspace` command in case the `xspace` package is not loaded and execute `\FBprocess@options`.

```

1968 \AtBeginDocument{%
1969   \providecommand*\xspace{\relax}%

```

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

```
1970   \FBprocess@options
```

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

```

1971   \iffBucsNBSP
1972     \renewcommand*\FBmedkern{\char"202F\relax}%
1973     \renewcommand*\FBthickkern{\char"A0\relax}%
1974     \iffBThinSpaceInFrenchNumbers
1975       \renewcommand*\FBthousandsep{\char"202F\relax}%
1976     \else

```

```

1977      \renewcommand*{\FBthousandsep}{\char"A0\relax}%
1978      \fi
1979  \fi

```

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

```

1980  \begingroup
1981  \newcommand{\FBOTone}{OT1}%
1982  \ifx\encodingdefault\FBOTone
1983    \FBWarning{OT1 encoding should not be used for French.%}
1984        \MessageBreak
1985        Add \protect\usepackage[T1]{fontenc} to the
1986        preamble\MessageBreak of your document; reported}%
1987  \fi
1988  \endgroup
1989 }

```

## 2.12 French lists

`\listFB` Vertical spacing in lists should be shorter in French texts than the defaults provided `\listORI` by LaTeX. Note that the easy way, just changing values of vertical spacing parameters `\FB@listVsettings` when entering French and restoring them to their defaults on exit would not work; so we define the command `\FB@listVsettings` to hold the settings to be used by the French variant `\listFB` of `\list`. Note that switching to `\listFB` reduces vertical spacing in *all* environments built on `\list`: `itemize`, `enumerate`, `description`, but also `abstract`, `quotation`, `quote` and `verse`...

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

```

1990 \let\listORI\list
1991 \let\endlistORI\endlist
1992 \newdimen\FB@parskip
1993 \def\FB@listVsettings{%
1994   \setlength{\topsep}{0.8ex plus 0.4ex minus 0.4ex}%
1995   \setlength{\partopsep}{0.4ex plus 0.2ex minus 0.2ex}%
}

```

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

```

1996 \FB@parskip=\parskip
1997 \addtolength{\topsep}{-\FB@parskip}%
1998 \addtolength{\partopsep}{\FB@parskip}%

```

```

1999      \setlength{\itemsep}{0.4ex plus 0.2ex minus 0.2ex}%
2000      \setlength{\parsep}{0.4ex plus 0.2ex minus 0.2ex}%
(v3.5q) 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.
2001      \ifdim\FB@parskip>0pt
2002          \setlength{\parsep}{\FB@parskip}%
2003          \addtolength{\itemsep}{-\FB@parskip}%
2004      \fi
2005 }
2006 \def\listFB#1#2{\listORI{#1}{\FB@listVsettings #2}}
2007 \let\endlistFB\endlistORI

```

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

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

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

```

\Frlabelitemii 2008 \renewcommand*{\FrenchLabelItem}{\textemdash}
\Frlabelitemiii 2009 \renewcommand*{\Frlabelitemi}{\FrenchLabelItem}
\Frlabelitemiv 2010 \renewcommand*{\Frlabelitemii}{\FrenchLabelItem}
2011 \renewcommand*{\Frlabelitemiii}{\FrenchLabelItem}
2012 \renewcommand*{\Frlabelitemiv}{\FrenchLabelItem}

```

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

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

```

2013 \newdimen\listindentFB
2014 \setlength{\listindentFB}{-1pt}
2015 \newdimen\descindentFB
2016 \setlength{\descindentFB}{-1pt}
2017 \newdimen\labelindentFB
2018 \setlength{\labelindentFB}{-1pt}
2019 \newdimen\labelwidthFB
2020 \setlength{\labelwidthFB}{-1pt}

```

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

```
2021 \newdimen\leftmarginFB  
2022 \def\FB@listHsettings{  
2023   \ifFBListItemsAsPar
```

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

```
2024   \itemindent=\labelindentFB  
2025   \advance\itemindent by \labelwidthFB  
2026   \advance\itemindent by \labelsep  
2027   \leftmargini\z@  
2028   \bbldfor\FB@dp {2, 3, 4, 5, 6}  
2029     {\csname leftmargin\romannumeral\FB@dp\endcsname =  
2030       \labelindentFB}  
2031 \else
```

Default layout: labels hanging into the list left margin.

```
2032   \leftmarginFB=\labelwidthFB  
2033   \advance\leftmarginFB by \labelsep  
2034   \bbldfor\FB@dp {1, 2, 3, 4, 5, 6}  
2035     {\csname leftmargin\romannumeral\FB@dp\endcsname =  
2036       \leftmarginFB}  
2037   \advance\leftmargini by \listindentFB  
(v3.5q) Same ‘parindent’ for paragraphs in lists’ items (was null as in standard lists).  
2038   \listparindent=\parindent  
2039 \fi  
2040 \leftmargin=\csname leftmargin%  
2041   \ifnum\@listdepth=\@ne i\else ii\fi\endcsname  
2042 }
```

\itemizeFB New environment for French itemize-lists.

\FB@itemizesettings \FB@itemizesettings does two things: first suppress all vertical spaces including glue unless option `StandardListSpacing` is set, then set horizontal indentations according to \FB@listHsettings unless option `ListOldLayout` is `true` (compatibility with lists up to v2.5k).

```
2043 \def\FB@itemizesettings{  
2044   \ifFBStandardListSpacing  
2045   \else  
2046     \setlength{\topsep}{\z@}  
2047     \setlength{\partopsep}{\z@}  
2048     \FB@parskip=\parskip  
2049     \addtolength{\topsep}{-\FB@parskip}  
2050     \addtolength{\partopsep}{\FB@parskip}  
2051     \setlength{\itemsep}{\z@}  
2052     \setlength{\parsep}{\z@}  
2053     \ifdim\FB@parskip>0pt
```

```

2054      \setlength{\parsep}{\FB@parskip}%
2055      \addtolength{\itemsep}{-\FB@parskip}%
2056    \fi
2057  \fi
2058 \settowidth{\labelwidth}{\csname @itemitem\endcsname}%
2059 \ifFBLListOldLayout
2060   \setlength{\leftmargin}{\labelwidth}%
2061   \addtolength{\leftmargin}{\labelsep}%
2062   \addtolength{\leftmargin}{\parindent}%
2063 \else
2064   \FB@listHsettings
2065 \fi
2066 }

```

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

```

2067 \def\itemizeFB{%
2068   \ifnum \@itemdepth >\thr@@\@toodeep\else
2069     \advance\@itemdepth by \@ne
2070     \edef\@itemitem{labelitem\romannumeral\the\@itemdepth}%
2071     \expandafter
2072     \listORI
2073     \csname @itemitem\endcsname
2074     \FB@itemizesettings
2075   \fi
2076 }
2077 \let\enditemizeFB\endlistORI

2078 \def\setlabelitemsFB{%
2079   \let\labelitemi\relax
2080   \let\labelitemii\relax
2081   \let\labelitemiii\relax
2082   \let\labelitemiv\relax
2083   \ifdim\labelwidthFB<\z@
2084     \settowidth{\labelwidthFB}{\FrenchLabelItem}%
2085   \fi
2086 }
2087 \def\setlistindentFB{%
2088   \ifdim\labelindentFB<\z@
2089     \ifdim\parindent=\z@
2090       \setlength{\labelindentFB}{1.5em}%
2091     \else
2092       \setlength{\labelindentFB}{\parindent}%
2093     \fi
2094   \fi
2095   \ifdim\listindentFB<\z@
2096     \ifdim\parindent=\z@

```

```

2097      \setlength{\listindentFB}{1.5em}%
2098      \else
2099      \setlength{\listindentFB}{\parindent}%
2100      \fi
2101  \fi
2102  \ifdim\descendentFB<\z@%
2103  \iffBListItemsAsPar
2104  \setlength{\descendentFB}{\labelindentFB}%
2105  \else
2106  \setlength{\descendentFB}{\listindentFB}%
2107  \fi
2108 \fi
2109 }
```

\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.

```

2110 \def\enumerateFB{%
2111   \ifnum \@enumdepth >\thr@@\@toodeep\else
2112     \advance\@enumdepth by \@ne
2113     \edef\@enumctr{enum\romannumeral\the\@enumdepth}%
2114     \expandafter
2115     \list
2116       \csname label\@enumctr\endcsname
2117       {\FB@listHsettings
2118         \usecounter\@enumctr\def\makelabel##1{\hss\llap{##1}}}}%
2119   \fi
2120 }
2121 \let\endenumerateFB\endlistORI
```

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

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

```

2122 \def\descriptionFB{%
2123   \list{}{\FB@listHsettings
2124     \labelwidth=\z@
2125     \iffBListItemsAsPar
2126       \itemindent=\descendentFB
2127     \else
2128       \itemindent=-\leftmargin
```

```

2129         \ifnum\@listdepth=\@ne
2130             \ifdim\descindentFB=\z@
2131                 \ifdim\listindentFB>\z@
2132                     \leftmargini=\listindentFB
2133                     \leftmargin=\leftmargini
2134                     \itemindent=-\leftmargin
2135                 \fi
2136             \else
2137                 \advance\itemindent by \descindentFB
2138             \fi
2139         \fi
2140     \fi
2141     \let\makelabel\descriptionlabel}%
2142 }
2143 \let\enddescriptionFB\endlistORI

```

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

```

2144 \def\update@frenchlists{%
2145   \setlistindentFB
2146   \ifFBStandardListSpacing
2147   \else \let\list\listFB \fi
2148   \ifFBStandardItemEnv
2149   \else \let\itemize\itemizeFB \fi
2150   \ifFBStandardItemLabels
2151   \else \setlabelitemsFB \fi
2152   \ifFBStandardEnumerateEnv
2153   \else \let\enumerate\enumerateFB \let\description\descriptionFB \fi
2154 }

```

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

In order to ensure compatibility with packages customising lists, the command `\update@frenchlists` should not be included in the first call to `\extrasfrench` which occurs *before* the relevant flags are finally set, so we define `\FB@uf1` as `\relax`, it will be redefined later 'AtBeginDocument' by `\FBprocess@options` as `\update@frenchlists`, see p. 70.

Lists' layout changes at language switches only if `GlobalLayoutFrench=false`.

```

2155 \def\FB@uf1{\relax}
2156 \def\bb@frenchlistlayout{%
2157   \ifFBGlobalLayoutFrench
2158   \else
2159     \babel@save\list      \babel@save\itemize
2160     \babel@save\enumerate \babel@save\description

```

```

2161     \babel@save\labelitemi   \babel@save\labelitemii
2162     \babel@save\labelitemiii \babel@save\labelitemiv
2163     \FB@ufl
2164   \fi
2165 }
2166 \addto\extrasfrench{\bbbl@frenchlistlayout}

```

## 2.13 French indentation of sections

\bbbl@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 in only two cases:

- a) GlobalLayoutFrench=false,
- b) IndentFirst=true and French isn't the main language.

```

2167 \def\bbbl@frenchindent{%
2168   \iffBGlobalLayoutFrench\else\babel@save\@afterindentfalse\fi
2169   \ifFBIndentFirst
2170     \iffB@mainlanguage@FR\else\babel@save\@afterindentfalse\fi
2171     \let\@afterindentfalse\@afterindenttrue
2172     \@afterindenttrue
2173   \fi}
2174 \addto\extrasfrench{\bbbl@frenchindent}

```

## 2.14 Formatting footnotes

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

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

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

```

2175 \newdimen\parindentFFN
2176 \parindentFFN=10in

```

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

```
2177 \newcommand*\{dotFFN}\{.\}
2178 \newcommand*\{kernFFN}\{\kern .5em\}
2179 \newdimen\FBfnindent
```

\@makefntextFB’s definition depends on the document’s class.

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.

```
2180 \iffB@koma
2181   \let\@makefntextORI\@makefntext
2182   \let\@@makefnmarkORI\@@makefnmark
```

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

```
2183 \deffootnote[\FBfnindent]{0pt}{\parindentFFN}%
2184   {\thefootnotemark\dotFFN\kernFFN}
2185 \let\@makefntextFB\@makefntext
2186 \let\@@makefnmarkFB\@@makefnmark
```

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

```
2187 \deffootnote[\parindentFFN]{0pt}{\parindentFFN}%
2188   {\textsuperscript{\thefootnotemark}}
2189 \let\@makefntextTH\@makefntext
2190 \let\@@makefnmarkTH\@@makefnmark
```

Restore the original definitions.

```
2191 \let\@makefntext\@makefntextORI
2192 \let\@@makefnmark\@@makefnmarkORI
2193 \fi
```

Definitions for the `memoir` class:

```
2194 \Qifclassloaded{memoir}
(see original definition in memman.pdf)
```

```
2195 \newcommand{\@makefntextFB}[1]{%
2196   \def\footscript##1##2{\dotFFN\kernFFN}%
2197   \setlength{\footmarkwidth}{\FBfnindent}%
2198   \setlength{\footmarksep}{-\footmarkwidth}%
2199   \setlength{\footparindent}{\parindentFFN}%
2200   \makefootmark #1}%
2201 }{}
```

Definitions for the `beamer` class:

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

```

2202 \@ifclassloaded{beamer}
2203   {\def\@makefntextFB#1{%
2204     \def\insertfootnotetext{\#1}%
2205     \def\insertfootnotemark{\insertfootnotemarkFB}%
2206     \usebeamertemplate***{footnote}}%
2207   \def\insertfootnotemarkFB{%
2208     \usebeamercolor[fg]{footnote mark}%
2209     \usebeamertfont*{footnote mark}%
2210     \llap{\@thefnmark}\dotFFN\kernFFN}%
2211 }

```

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)!

```

2212 \providecommand*\insertfootnotemarkFB{%
2213   \parindent=\parindentFFN
2214   \rule{z@\footnotesep}
2215   \setbox\@tempboxa\hbox{\@thefnmark}%
2216   \ifdim\wd\@tempboxa>z@
2217     \llap{\@thefnmark}\dotFFN\kernFFN
2218   \fi}
2219 \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 the `\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: let’s define a customisable thin space which will be added before footnote’s call by `\@footnotemarkFB`.

```

2220 \newcommand*\FBfnmarkspace{\kern .5\fontdimen2\font}
2221 \def\@footnotemarkFB{\leavevmode\unskip\unkern
2222           \protect\FBfnmarkspace\@footnotemarkORI}%

```

Switching between French or Standard layout for footnotes is done ‘AtBeginDocument’. The LuaTeX command `\localleftbox` and `\FBeverypar@quote` used by `\frquote{}` have to be reset inside footnotes; done for LaTeX based formats only.

```

2223 \providecommand\localleftbox[1]{}
2224 \AtBeginDocument{%

```

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

```
2225  \@ifpackageloaded{footnotebackref}{%
2226      \FBFrenchFootnotesfalse
2227      \PackageWarning{french.ldf}{%
2228          footnotebackref package loaded.\MessageBreak
2229          babel-french will NOT customise footnotes;%
2230          \MessageBreak reported}}%
2231  {}%
```

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.

```
2232  \@ifpackageloaded{bigfoot}{%
2233      \PackageWarning{french.ldf}{%
2234          bigfoot package in use.\MessageBreak
2235          babel-french will NOT customise footnotes;%
2236          \MessageBreak reported}}%
```

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

```
2237  \let\@footnotemarkORI\@footnotemark
2238  \iffBAutoSpaceFootnotes
2239      \let\@footnotemark\@footnotemarkFB
2240  \fi
2241  \ifdim\parindentFFN<10in
2242  \else
2243      \parindentFFN=\parindent
2244      \ifdim\parindentFFN<1.5em \parindentFFN=1.5em \fi
2245  \fi
2246  \settowidth{\FBfnindent}{\dotFFN\kernFFN}%
2247  \addtolength{\FBfnindent}{\parindentFFN}%
2248  \let\@makefntextORI\@makefntext
```

Koma-script classes require a special treatment.

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

```
2249  \ifFB@koma
2250      \let\@@makefnmarkORI\@@makefnmark
2251      \long\def\@makefntext#1{%
2252          \localleftbox{}%
2253          \let\FBeverypar@save\FBeverypar@quote
2254          \let\FBeverypar@quote\relax
2255          \iffBFrenchFootnotes
2256              \ifx\footnote\thanks
2257                  \let\@@makefnmark\@@makefnmarkTH
```

```

2258          \@makefntextTH{\#1}
2259      \else
2260          \let\@@makefnmark\@@makefnmarkFB
2261          \@makefntextFB{\#1}
2262      \fi
2263  \else
2264      \let\@@makefnmark\@@makefnmarkORI
2265      \@makefntextORI{\#1}%
2266  \fi
2267  \let\FBeverypar@quote\FBeverypar@save
2268  \localleftbox{\FBeveryline@quote}%
2269 \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.

```

2270      \@ifclassloaded{memoir}%
2271          {\iffBFrenchFootnotes
2272              \setlength{\thanksmarkwidth}{\parindentFFN}%
2273              \setlength{\thanksmarksep}{-\thanksmarkwidth}%
2274          \fi
2275      }{}}%

```

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

```

2276      \@ifclassloaded{beamer}%
2277          {\iffBFrenchFootnotes
2278              \ifdim\parindentFFN=1.5em\else
2279                  \FBWarning{%
2280                      \protect\parindentFFN\space is ineffective%
2281                      \MessageBreak within the beamer class.%%
2282                      \MessageBreak Reported}%
2283                  \fi
2284          \fi
2285      }{}}%

```

Definition of `\@makefntext` for all other classes:

```

2286      \long\def\@makefntext#1{%
2287          \localleftbox{}}%
2288          \let\FBeverypar@save\FBeverypar@quote
2289          \let\FBeverypar@quote\relax
2290          \iffBFrenchFootnotes
2291              \@makefntextFB{\#1}%
2292          \else
2293              \@makefntextORI{\#1}%
2294          \fi
2295          \let\FBeverypar@quote\FBeverypar@save
2296          \localleftbox{\FBeveryline@quote}%
2297      \fi

```

```
2298     }%
2299 }
```

For compatibility reasons, we provide definitions for the commands dealing with the layout of footnotes in `babel-french` version 1.6. `\frenchsetup{}` (see in section 2.11) should be preferred for setting these options. `\StandardFootnotes` may still be used locally (in minipages for instance), that's why the test `\ifFBFrenchFootnotes` is done inside `\@makefntext`.

```
2300 \newcommand*{\AddThinSpaceBeforeFootnotes}{\FBAutoSpaceFootnotestrue}
2301 \newcommand*{\FrenchFootnotes}{\FBFrenchFootnotestrue}
2302 \newcommand*{\StandardFootnotes}{\FBFrenchFootnotesfalse}
```

## 2.15 Clean up and exit

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

```
2303 \FBclean@on@exit
2304 \ldf@finish\CurrentOption
2305 \let\loadlocalcfg\FB@llc
2306 </french>
```

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

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

```
2307 <*acadian>
2308 \PackageInfo{acadian.ldf}%
2309   {'acadian' dialect is currently\MessageBreak
2310     *absolutely identical* to the\MessageBreak
2311     'french' language; reported}
2312 </acadian>
2313 <*canadien>
2314 \PackageWarning{canadien.ldf}%
2315   {Option `canadien' for Babel is *deprecated*,\MessageBreak
2316     it might be removed sooner or later. Please\MessageBreak
2317     use `acadian' instead; reported}%
2318 \def\CurrentOption{acadian}

2319 \def\datecanadien{\dateacadian}
2320 \def\captionscanadien{\captionsacadian}
```

```

2321 \def\extrascanadien{\extrasacadian}
2322 \def\noextrascanadien{\noextrasacadian}
2323 </canadien>
2324 <*francais>
2325 \PackageWarning{francais.ldf}%
2326   {Option `francais' for Babel is *deprecated*, \MessageBreak
2327     it might be removed sooner or later. Please\MessageBreak
2328     use `french' instead; reported}%
2329 \chardef\l@francais\l@french
2330 \def\CurrentOption{french}
2331 </francais>

```

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

```

2332 <*frenchb>
2333 \def\bb@tempa{frenchb}
2334 \ifx\CurrentOption\bb@tempa
2335   \chardef\l@frenchb\l@french
2336   \def\CurrentOption{french}
2337   \PackageWarning{babel-french}%
2338   {Option `frenchb' for Babel is *deprecated*, \MessageBreak
2339     it might be removed sooner or later. Please\MessageBreak
2340     use `french' instead; reported}
2341 \else
2342   \def\bb@tempa{francais}
2343   \ifx\CurrentOption\bb@tempa
2344     \chardef\l@francais\l@french
2345     \def\CurrentOption{french}

```

Plain formats: no warning when francais.sty loads frenchb.ldf (Babel pre-3.13).

```

2346   \ifx\magnification@\undefined
2347     \PackageWarning{babel-french}%
2348     {Option `francais' for Babel is *deprecated*, \MessageBreak
2349       it might be removed sooner or later. Please\MessageBreak
2350       use `french' instead; reported}
2351   \fi
2352 \else
2353   \def\bb@tempa{canadien}
2354   \ifx\CurrentOption\bb@tempa
2355     \def\CurrentOption{acadian}
2356     \PackageWarning{babel-french}%
2357     {Option `canadien' for Babel is *deprecated*, \MessageBreak
2358       it might be removed sooner or later. Please\MessageBreak
2359       use `acadian' instead; reported}
2360   \fi
2361 \fi
2362 \fi

```

```
2363 </frenchb>
2364 <acadian/canadien/frenchb/francais>\input french.ldf\relax
2365 <acadian/canadien>\let\extrasacadian\extrasfrench
2366 <acadian/canadien>\let\noextrasacadian\noextrasfrench
2367 <acadian/canadien/frenchb/francais/french>\endinput
```

### 3 Change History

Changes listed in reverse order (latest first) and not older than v3.3 (2018).

#### v3.6a

- General: Internal ‘`ltkeys`’ replaces package ‘`keyval`’ for options management. . . . . 59  
`\@footnotemark`: Allow customisation of the space added in `\footnotemarkFB`. . . . . 82  
`\degrees`: Simplify `\degrees` definition for text and math mode: `\textdegree` always defined (TS1) since 2019. . . . . 49

#### v3.5s

- General: Footnotes: no customising of `\@footnotetext` when the `footnotebackref` package is loaded. Just warn the user. . . . . 82  
`frenchb.lua`: A ‘`:`’ followed by ‘`-`’ or a ligature should not trigger spacing. 27

#### v3.5r

- General: Compatibility with `ucharclasses` package added. . . . 33

#### v3.5q

- `\listFB`: Bug correction: `\parsep` should be related to `\parskip` and `\listparindent` to `\parindent`. . . . . 74

#### v3.5p

- `\DecimalMathComma`: `\DecimalMathComma` can again be used in the preamble for a global action. It now works as expected inside a group. . . . . 49

- `\frquote`: `\FB@everyline@quote`: no need for a penalty inside a `\localleftbox`. . . . . 43

#### v3.5o

- General: `\shorthandon` and `\shorthandoff` are no longer redefined in LuaTeX (it broke `\shorthandoff*`). . . . . 32

- `\FB@xetex@punct@french`: `\shorthandon` and `\shorthandoff` are no longer redefined (it broke

`\shorthandoff*`). . . . . 34

`frenchb.lua`: Opening guill.: look ahead when next is a penalty (nobreak space). . . . . 29

#### v3.5n

- General: `\FBGlobalLayoutFrench` no longer set to false when French is not the main language. . . . . 60

`\bb1@frenchindent`:  
`\bb1@frenchindent` changed.  
`\bb1@nonfrenchindent` removed. 80

`\bsc`: Added command `\bname` (no small caps). . . . . 48

#### v3.5m

`\FBtextellipsis`: No longer redefine `\dots`, only `\textellipsis`’s default definition is changed in French. . . . . 57

#### v3.5l

General: No warning about `\@makecaption` for more classes. . . . 56

`\captionsfrench`: Redefine `\fnum@figure` and `\fnum@table` separately. . . . . 53

#### v3.5k

General: `\degree`, `\degrees`, `\circonflexe`, `\tild`, `\boi` and `\at` are now safe in bookmarks. . . . . 48

`\pdfstringdefDisableCommands` dropped. . . . . 73

Reorganise warnings about ‘`:`’ in captions, according to enhancements in `caption.sty`

`v3.5a`. . . . . 56

`\bsc`: `\bsc` now relies on `\texorpdfstring` to be safe in bookmarks. . . . . 48

`\captionsfrench`: Small caps removed in `\figurename` and `\tablename`, use `\fnum@figure` and `\fnum@table` instead. . . . . 53

`\FB@fg`: `\FB@og` and `\FB@fg` now rely

on <code>\texorpdfstring</code> to be safe in bookmarks. . . . .	40	the acadian language. Warning added if used with the <code>icomma</code> package. . . . .	49
<b>v3.5e</b>			
General: StandardLayout and GlobalLayoutFrench options can no longer be toggled when French is not the main language. . . . .	60		
<b>\frquote:</b> Make resettings global on exit. . . . .	44		
<b>\fup:</b> <code>\up</code> and <code>\fup</code> now rely on <code>\texorpdfstring</code> to be safe in bookmarks. . . . .	45	<b>\newcommand \NoEveryParQuote:</b> . . . . .	44
<b>\no:</b> <code>\no</code> , <code>\nos</code> , <code>\No</code> , <code>\Nos</code> , <code>\primno</code> , <code>\fprimno</code> , now rely on <code>\texorpdfstring</code> to be safe in bookmarks. . . . .	47	reset <code>\FB@addGUILspace</code> attribute inside <code>\localleftbox</code> (LuaTeX). . . . .	43
<b>v3.5j</b>			
General: For memoir, koma-script and beamer captions, <code>\FB@std@sep</code> has to be defined before activating the colon. . . . .	36		
<b>v3.5i</b>			
<b>\frenchsetup:</b> For memoir, koma-script and beamer classes, leave caption delimiter unchanged if it has been user customised. . .	71		
<b>v3.5h</b>			
<b>frenchb.lua:</b> 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. . . . .	26	<b>\frquote:</b> <code>\FBeverypar@quote</code> 's value now properly reset across level changes. . . . .	43
Code reorganised for better efficiency. . . . .	26	<b>\noextrasfrench:</b> <code>\lccode</code> of quote 0x27 changed from 0x2019 to 0x27 for Unicode engines. . . . .	17
<b>v3.5g</b>			
<b>frenchb.lua:</b> 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. . . . .	26	<b>v3.5b</b>	
<b>v3.5f</b>			
General: <code>\l@canadien</code> was defined too early in file 'canadien.ldf': <code>\l@acadian</code> might not be defined. . . . .	15	General: Reset <code>\FBeverypar@quote</code> locally inside <code>\makefntext</code> . Needed by <code>\frquote</code> . . . . .	82
<code>\selectlanguage{canadien}</code> allowed again only for backward compatibility (deprecated). . . . .	85	<b>\frquote:</b> New command <code>\FB@addquote@everypar</code> to manage <code>\everypar</code> : <code>\frquote</code> failed when used immediately after a sectionning command. . . . .	42
<code>\DecimalMathComma:</code> Fixed bug with		<b>v3.5a</b>	
		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. . . . .	76
		<b>\descriptionFB:</b> <code>ListItemsAsPar</code> option taken into account for description lists. . . . .	78

\frenchsetup: New option ListItemsAsPar for displaying lists' items "as paragraphs". . . . .	62	\(no)extras\CurrentOption to \(no)extrasfrench. \(no)extrasacadian will be defined as \(no)extrasfrench in file acadian.ldf. . . . .	16
<b>v3.4d</b>		frenchb.lua: Global 'FBsp' table added; local function 'get_glue' changed into global 'FBget_glue'. . . . .	24
\frenchsetup: New test for deciding about utf8 encoding for keys og and fg (the former one fails with LaTeX 2018 release). . . . .	66		
<b>v3.4c</b>			
\iffBXeTeX: Reverting to former test, beware of \XeTeXrevision left as \relax by careless testing. . . . .	16	<b>frenchb.lua:</b> 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). . . . .	27
<b>v3.4b</b>			
\datefrench: Do not redefine \date as \frenchdate in French. . . . .	44	<b>v3.3c</b>	
<b>v3.4a</b>		General: \LdfInit checks \FBclean@on@exit instead of \captionsfrench (undefined in PLAIN). Prevents loading french.ldf again with acadian option. . . . .	14
babel-french now requires eTeX. . . . .	14	New command \FBthousandsep to customise numprint. . . . .	52
Lua function token.get_meaning requires LuaTeX 1.0. . . . .	22	New configurable kerns \FBmedkern, and \FBthickkern suitable for HTML translation. . . . .	47
New \FBgspchar to customise the space character to be used for \og and \fg with the UnicodeNoBreakSpaces option. . . . .	40	Reorganise warnings when the caption, subcaption or floatrow packages are loaded before babel/french. . . . .	56
New attribute \FB@dialect for the French dialect acadian. . . . .	21	Reset \localleftbox locally inside \makefnlist. Needed by \frquote with LuaTeX. . . . .	82
New command \FBsetspace to fine tune spacing independently in French and in French dialects. . . . .	18	\frenchsetup: New option 'UnicodeNoBreakSpaces' for html translators (LuaLaTeX only). . . . .	65
Patch for koma-script classes moved here, after \iffBPartNameFull is defined, so that it applies to \extrasacadian too: \AtEndOfPackage is too late. . . . .	60	frenchb.lua: Function 'get_glue' robustified. 'french_punctuation' can insert Unicode characters instead of glues. . . . .	23
Shrink/stretch removed in \FBthousandsep. . . . .	52	<b>v3.3b</b>	
Toks \FBcolonsp, \FBthinsp and \FBguillsp removed. . . . .	18	General: Generate portmanteau files acadian.ldf, canadien.ldf, frenchb.ldf, and francais.ldf and warn about deprecated options. . . . .	85
\datefrench: Specific code for Plain finally removed (babel bug reported). . . . .	44	New 'if' \iffBFfrench to replace \iflanguage test which is based on patterns. . . . .	16
\extrasfrench: Change			

<b>v3.3a</b>	
General: Compatibility code for pre 2015/10/01 LaTeX release removed, see <code>ltnews23.tex</code> . . . . .	21
Skip <code>\FBguillskip</code> for LaTeX replaced by toks <code>\FBguillsp</code> . . . .	18
<code>\captionsfrench</code> : Commands <code>\frenchpartfirst</code> , <code>\frenchpartsecond</code> and <code>\frenchpartnameord</code> added. . . .	53
<code>\FBthinspace</code> : Skips <code>\FBcolonskip</code> and <code>\FBthinskip</code> replaced by toks <code>\FBcolonsp</code> and <code>\FBthinsp</code> . . . .	18
<code>\frenchsetup</code> : <code>\frenchbsetup</code> is now an alias for <code>\frenchsetup</code> . . . .	62
Options <code>INGuillSpace</code> , <code>ThinColonSpace</code> no longer delayed <code>AtBeginDocument</code> . . . . .	62
<code>\frquote</code> : <code>\FB@quotespace</code> (kern), changed into <code>\FB@guillspace</code> . . .	43