

A Babel language definition file for Breton

breton.dtx v2.0.1, 2026-05-17

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1 The Breton language

The file `breton.lda`¹ defines all the language-specific macros for the Breton language.

There are not really typographic rules for the Breton language. It is a regional language (it's one of the celtic languages) which is spoken in Brittany (West of France). So we have a synthesis between Breton typographic rules and French typographic rules. The characters `:`, `;`, `!` and `?` get a whitespace automatically before them as in French.

This version (v2.0.1, 2026-05-17) supports new encoding for “the” character C’H, and uses new caption names. Furthermore, compatibilities between pdfTeX, lualatex and xelatex have been upgraded with the deep help of Daniel Flipo.

1.1 Basic interface

The breton language for Babel works for lualatex, xelatex and pdflatex.

Requirements:

1. user's documents *must* be coded in UTF-8, also for pdflatex.
2. pdflatex users *must* use fonts in T1 encoding, this means adding a `\usepackage[T1]{fontenc}` command in the preamble.

1.1.1 Punctuation

High punctuation (`:` `;` `!` `?`) in Breton requires, as in French, some space to be added in front of it. The automatic insertion of these spaces is handled in two different ways: for the pdfTeX and xetex engines, active characters are used, while lualatex provides a safer alternative.

The default behaviour of `breton.lda` is to add a thin (nobreak, no stretch) space in front of `;` `!` `?` and an inter-word (stretchable, nobreak) space in front of the colon. These spaces are customisable through two commands `\BRSetThinSpace` and `\BRSetColonSpace`. They both require three mandatory arguments which are decimal numbers specifying *width*, *stretch* and *shrink* relative to the relevant *fontdimens*. Examples:

`\BRSetColonSpace{1}{1}{1}` provides exactly an inter-word space.

`\BRSetThinSpace{0.5}{0}{0}` provides a thin space (half width of the inter-word space, no elasticity).

The automatic insertion of spaces in front of high punctuation is disabled for Typewriter fonts and hence in verbatim mode.

A command `\NoBRspacing` is provided to disable the automatic insertion of spaces in front of high punctuation if needed. It is meant to be used inside a group. For instance with pdfTeX or xelatex, coding `{\NoBRspacing (!)}` or `{\NoBRspacing ??}` to avoid spurious spaces is recommended. Fortunately lualatex handles these cases flawlessly.

¹The file described in this section has version number v2.0.1 and was last revised on 2026-05-17.

1.1.2 Caption names

The former list of caption names (such as `\chaptername`) has been revisited, mainly according to recommendations of OPLB. Furthermore, `\partname` is now numbered with ordinals (e.g. *Lodenn gentañ*, *Eil lodenn*, ...) instead of roman numbers (e.g. *Lodenn I*, *Lodenn II*, ...).

To the regular `\today` is added a new command `\deiziad{year}{month}{day}` that prints the corresponding date in breton.

2 The code

2.1 Initial setup

```
1 \ProvidesLanguage{breton}
```

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

```
2 \LdfInit{breton}{captionsbreton}
```

Quit if Babel's version is less than 24.14.

```
3 \let\bbbl@tempa\relax
4 \ifdefined\babeltags
5 \else
6   \let\bbbl@tempa\endinput
7   \PackageError{breton.ldf}
8     {babel-breton requires babel v.24.14.\MessageBreak
9       Aborting here}
10    {Please upgrade Babel!}
11 \fi
12 \bbbl@tempa
```

Make sure that `\l@breton` is defined (fallback is language 0 US-english).

```
13 \ifdefined\l@breton
14 \else
15   \@nopatterns{breton}
16   \adddialect\l@breton0
17 \fi
```

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

```
18 \providehyphenmins{breton}{\tw@\thr@@}
```

`\extrasbreton` The macro `\extrasbreton` will perform all the extra definitions needed for the Breton language. The macro `\noextrasbreton` is used to cancel the actions of `\extrasbreton`.

In Breton, the quote character (U+27 or U+2019 or even 02BC) is a letter in expressions like *C'hwevrer* (February). Breton hyphenation patterns need to provide entries for this kind of words. This means that its `\lccode` has to be non null in Breton for proper hyphenation of those expressions, and has to be reset to null when exiting Breton.

```
19 \def\extrasbreton{%
20   \babel@savevariable{\lccode"27}%
21   \lccode"27="27
22   \ifnum\bbbl@engine > \z@
23     \babel@savevariable{\lccode"2019}%
24     \lccode"2019="2019
25   \fi
26 }
```

One more thing `\extrasbreton` needs to do is to make sure that “Frenchspacing” is in effect. `\noextrasfrench` will switch “Frenchspacing” off again if necessary. A new conditional is used to switch off, if needed, automatic insertion of spaces in front of ; ! ?, :, « and ».

```
27 \newif\ifBR@spacing
28 \addto\extrasbreton{\bbl@frenchspacing \BR@spacingtrue}
29 \addto\noextrasbreton{\bbl@nonfrenchspacing \BR@spacingfalse}
```

2.2 Breton apostrophe U+02BC

Strangely, some organisms, such as the Public Office for Breton Language (OPLB, Office Public de la Langue Bretonne, Ofis Publik ar Brezhoneg), recommends to encode the character C’H with the U+02BC apostrophe. As this character is missing from most fonts, it’s safer to replace it with a regular apostrophe.

Substitution of char U+02BC into U+0027 (pdf_{tex}) or U+2019 (unicode engines).

This is for the pdf_{tex} engine; caveat: the substitution holds for all languages, not just Breton.

```
30 \ifcase\bbl@engine
31 \DeclareUnicodeCharacter{02BC}{\char"0027}
```

This is for the luat_{ex} engine.

```
32 \or
33 \babe

```
lprehyphenation{breton}{ ' }{ string = ' , remove }
```


```

This is for the xet_{ex} engine.

```
34 \or
35 \def\@gobblenext#1{}
36 \babelcharclass{breton}{apos}{' }
37 \babelinterchar[apos]{breton}{default, boundary}{apos}{'\@gobblenext}
38 \fi
```

2.3 Punctuation

`\BRguillspace` Let’s define default values for punctuation spaces.

```
\BRcolonspace 39 \newcommand*{\BRcolonspace}{\space}
\BRthinspace 40 \newcommand*{\BRthinspace}{\hspace .5\fontdimen2\font \relax}
41 \newcommand*{\BRguillspace}{\hspace .8\fontdimen2\font
42 plus .3\fontdimen3\font
43 minus .8\fontdimen4\font \relax}
```

`\BRSetGuillSpace` This command makes it easy to fine tune `\BRthinspace` and `\BRcolonspace` in Breton. It requires three mandatory arguments which are decimal numbers specifying *width*, *stretch* and *shrink* relative to the relevant *fontdimens*. For instance `\BRSetColonSpace}{0.5}{0}{0}` defines `\BRcolonspace` as a thinspace instead of a word space.

```

44 \newcommand*{\BRSetColonSpace}[3]{%
45   \ifnum\bbl@engine=\@ne
46     \SetTransformValue{breton}{colon.natural}{#1}%
47     \SetTransformValue{breton}{colon.minus}{#2}%
48     \SetTransformValue{breton}{colon.plus}{#3}%
49   \else
50     \renewcommand{\BRcolonspace}{%
51       \hskip #1\fontdimen2\font
52       plus #2\fontdimen3\font
53       minus #3\fontdimen4\font \relax}%
54   \fi}
55 \newcommand*{\BRSetThinSpace}[3]{%
56   \ifnum\bbl@engine=\@ne
57     \SetTransformValue{breton}{thin.natural}{#1}%
58     \SetTransformValue{breton}{thin.minus}{#2}%
59     \SetTransformValue{breton}{thin.plus}{#3}%
60   \else
61     \renewcommand{\BRthinspace}{%
62       \hskip #1\fontdimen2\font
63       plus #2\fontdimen3\font
64       minus #3\fontdimen4\font \relax}%
65   \fi}
66 \newcommand*{\BRSetGuillSpace}[3]{%
67   \ifnum\bbl@engine=\@ne
68     \SetTransformValue{breton}{guill.natural}{#1}%
69     \SetTransformValue{breton}{guill.minus}{#2}%
70     \SetTransformValue{breton}{guill.plus}{#3}%
71   \else
72     \renewcommand{\BRguillspace}{%
73       \hskip #1\fontdimen2\font
74       plus #2\fontdimen3\font
75       minus #3\fontdimen4\font \relax}%
76   \fi}

```

2.3.1 Punctuation for the pdftex engine

`\bbl@engine` is a Babel command which expands to 0, 1 or 2 according to the engine used for compilation, resp. pdftex, luatex, xetex. For pdftex the four high punctuation characters are made active.

```

77 \ifcase\bbl@engine
78   \initiate@active@char{:}
79   \initiate@active@char{;}
80   \initiate@active@char{!}
81   \initiate@active@char{?}

```

We tune the amount of space before ; ! ? and :. In horizontal mode, if a space has

been typed before ‘;’ we remove it. Then a non-breaking \BRthinspace is inserted.

```
82 \declare@shorthand{breton}{;}{%
83   \ifBR@spacing
84     \ifhmode
85       \ifdim\lastskip>1sp \unskip \fi
86       \penalty\@M \BRthinspace
87     \fi
88   \fi
```

Now we can insert a ; character.

```
89   \string;}
```

The next three definitions are very similar.

```
90 \declare@shorthand{breton}{!}{%
91   \ifBR@spacing
92     \ifhmode
93       \ifdim\lastskip>1sp \unskip \fi
94       \penalty\@M \BRthinspace
95     \fi
96   \fi
97   \string!}
98 \declare@shorthand{breton}{?}{%
99   \ifBR@spacing
100     \ifhmode
101       \ifdim\lastskip>1sp \unskip \fi
102       \penalty\@M \BRthinspace
103     \fi
104   \fi
105   \string?}
106 \declare@shorthand{breton}{:}{%
107   \ifBR@spacing
108     \ifhmode
109       \ifdim\lastskip>1sp \unskip \fi
110       \penalty\@M \BRcolonspace
111     \fi
112   \fi
113   \string:}
```

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

```
114 \declare@shorthand{system}{:}{\string:}
115 \declare@shorthand{system}{!}{\string!}
116 \declare@shorthand{system}{?}{\string?}
117 \declare@shorthand{system}{;}{\string;}
```

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

```
118 \addto\extrasbreton{\languageshorthands{breton}%
```

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 Breton.

```
119 \bbl@activate{:}\bbl@activate{;}%
120 \bbl@activate{!}\bbl@activate{?}%
121 }
122 \addto\noextrasbreton{%
123 \bbl@deactivate{:}\bbl@deactivate{;}%
124 \bbl@deactivate{!}\bbl@deactivate{?}%
125 }
```

French quotes (« and ») also require some additional space;

```
126 \DeclareUnicodeCharacter{00AB}{\BR@og}
127 \DeclareUnicodeCharacter{00BB}{\BR@fg}
128 \newcommand*{\BR@og}{%
129 \ifBR@spacing \guillemotleft\penalty\@M\BRguillspace\ignorespaces
130 \else \guillemotleft
131 \fi}
132 \newcommand*{\BR@fg}{%
133 \ifBR@spacing \ifdim\lastskip>\z@\unskip\fi \penalty\@M\BRguillspace
134 \guillemotright
135 \else \guillemotright
136 \fi}
```

2.3.2 Punctuation for the luatex engine

For the LuaTeX engine, we use the “transforms” from Babel’s kernel and we exclude monospaced fonts from their application.

```
137 \or
138 \babelprehyphenation[label=breton.space, fonts=rm sf]{\CurrentOption}
139 { [^|{({}{[]{}007B!{}]} () [;!{}]} () }
140 { { insert, penalty = 10000 },
141 { insert, spacefactor= {high.natural|.5} {high.plus|0}
142 {high.minus|0}, data = 1 },
143 {} }
144 \babelprehyphenation[label=breton.space, fonts=rm sf]{\CurrentOption}
145 { [^|{({}{[]{}007B!{}]} () | [;!{}]} () }
146 { { insert, penalty = 10000 },
147 { spacefactor= {high.natural|.5} {high.plus|0}
148 {high.minus|0}, data = 2 },
149 {} }
150 \babelprehyphenation[label=breton.space, fonts=rm sf]{\CurrentOption}
151 { [^|{({}{[]{}007B} ) : () }
152 { { insert, penalty = 10000 },
153 { insert, spacefactor= {colon.natural|1} {colon.plus|1}
```



```

154 {colon.minus|1}, data = 1 },
155 {} }
156 \babelprehyphenation[label=breton.space, fonts=rm sf]{\CurrentOption}
157 { [^({}{[{}{007B} ] () |: () }
158 { { insert, penalty = 10000 },
159 { spacefactor= {colon.natural|1} {colon.plus|1}
160 {colon.minus|1}, data = 2 },
161 {} }
162 \babelprehyphenation[label=breton.space, fonts=rm sf]{\CurrentOption}
163 { [^|()»() }
164 { { insert, penalty = 10000 },
165 { insert, spacefactor= {guill.natural|.8} {guill.plus|.3}
166 {guill.minus|.8}, data = 1 },
167 {} }
168 \babelprehyphenation[label=breton.space, fonts=rm sf]{\CurrentOption}
169 { [^|()|»() }
170 { { insert, penalty = 10000 },
171 { spacefactor= {guill.natural|.8} {guill.plus|.3}
172 {guill.minus|.8}, data = 2 },
173 {} }
174 \babelprehyphenation[label=breton.space, fonts=rm sf]{\CurrentOption}
175 { «[^|] }
176 { {},
177 { insert, penalty = 10000 },
178 { insert, spacefactor= {guill.natural|.8} {guill.plus|.3}
179 {guill.minus|.8}, data = 1 },
180 {} }
181 \babelprehyphenation[label=breton.space, fonts=rm sf]{\CurrentOption}
182 { «|[^|] }
183 { {},
184 { insert, penalty = 10000 },
185 { spacefactor= {guill.natural|.8} {guill.plus|.3}
186 {guill.minus|.8}, data = 1 },
187 {} }

```

2.3.3 Punctuation for the xetex engine

For the xetex engine, inter-character rules are defined to insert spaces before the ‘high punctuation’ characters.

```

188 \or
189   \babelcharclass{breton}{thin}{;!?}
190   \babelcharclass{breton}{colon}{:}
191   \babelinterchar{breton}{default,boundary}{thin}{%
192     \ifBR@spacing
193       \ifhmode
194         \ifdim\lastskip>1sp \unskip \fi

```

```

195         \penalty\@M\BRthinspace
196     \fi
197 \fi}%
198 \babelinterchar{breton}{default,boundary}{colon}{%
199     \ifBR@spacing
200         \ifhmode
201             \ifdim\lastskip>1sp \unskip \fi
202             \penalty\@M\BRcolonspace
203         \fi
204     \fi}%
205

```

This is for French quote characters:

```

206 \babelcharclass{breton}{og}{«}
207 \babelcharclass{breton}{fg}{»}
208 \babelinterchar{breton}{og}{default,boundary}{%
209     \ifBR@spacing \penalty\@M\BRguillspace \ignorespaces\fi}
210 \babelinterchar{breton}{default,boundary}{fg}{%
211     \ifBR@spacing \ifdim\lastskip>\z@ \unskip \fi
212     \penalty\@M\BRguillspace\fi}
213 \fi

```

2.3.4 Punctuation switches common to all engines

Automatic insertion of spaces in front of high punctuation is canceled in for Typewriter fonts and hence in verbatim. For luatex, nothing has to be done as Typewriter fonts are excluded from Babel transforms. For pdftex and xetex, this is done by switching the `\ifBR@spacing` flag. As `\ttfamily` action may be global (when not issued inside a group), `\rmfamily` and `\sffamily` need to be patched too.

```

214 \ifnum\bbI@engine=\@ne
215 \else
216   \AddToHook{cmd/ttfamily/after}{\BR@spacingfalse}
217   \AddToHook{cmd/rmfamily/after}{\BR@spacingtrue}
218   \AddToHook{cmd/sffamily/after}{\BR@spacingtrue}
219 \fi

```

\BRNoAutoSpacing The following command disables automatic spacing for high punctuation. It is engine independent and is meant to be used inside a group. The faked definition of `\texorpdfstring` will be overwritten by `hyperref.sty`.

```

220 \providecommand\texorpdfstring[2]{#1}
221 \DeclareRobustCommand*\NoBRspacing{%
222   \texorpdfstring%
223   {\ifnum\bbI@engine=1
224     \else
225       \shorthandoff{;:!?}%
226     \fi

```

```

227 }%
228 {}%
229 }

```

2.4 Caption names

The next step consists in defining the Breton equivalents for the LaTeX caption names. New implementation for caption names.

```

230 \StartBabelCommands*{breton}{captions}
231     [unicode, fontenc=TU EU1 EU2, charset=utf8]
232     \SetString{\refname}{Daveennoù}
233     \SetString{\contentsname}{Taolenn ar pennadoù}
234     \SetString{\listfigurename}{Listenn ar lunioù}
235     \SetString{\listtablename}{Listenn an taolennoù}
236     \SetString{\enclname}{Pezh stag}
237     \SetStringLoop{ordinal#1}{% change 02BC to 2019
238         Kentañ,Eil,Trede,Pevare,Pempvet,C'hwec'hvet,Seizhvet,Eizhvet,%
239         Navvet,Dekvet,Unnekvet,Daouzekvet,Trizekvet,Pevarzekvet,Pemzekvet,%
240         C'hwezekvet,Seitekvet,Triwec'hvet,Naontekvet,Ugentvet,%
241         Unanvet warn-ugent,Eil warn-ugent,Trede warn-ugent,%
242         Pevare warn-ugent,Pempvet warn-ugent,C'hwec'hvet warn-ugent,%
243         Seizhvet warn-ugent,Eizhvet warn-ugent,Navvet warn-ugen,Tregontvet}
244 \StartBabelCommands*{breton}{captions}
245     \SetString{\prefacename}{Rakskrid}
246     \SetString{\refname}{Daveenno\`u}
247     \SetString{\abstractname}{Diverradur}
248     \SetString{\bibname}{Levrlennadur}
249     \SetString{\chaptername}{Pennad}
250     \SetString{\appendixname}{Stagadenn}
251     \SetString{\contentsname}{Taolenn ar pennado\`u}
252     \SetString{\listfigurename}{Listenn ar lunio\`u}
253     \SetString{\listtablename}{Listenn an taolenn\`u}
254     \SetString{\indexname}{Meneger}
255     \SetString{\figurename}{Lun}
256     \SetString{\tablename}{Taolenn}
257     \SetString{\enclname}{Pez stag}
258     \SetString{\ccname}{Eilad da}
259     \SetString{\headtoname}{Da}
260     \SetString{\pagename}{pajenn}
261     \SetString{\seename}{gwelet}
262     \SetString{\alsoname}{gwelet ivez}
263     \SetString{\proofname}{Anatadur}
264     \SetString{\glossaryname}{Geriaoueg}

```

\part{} is printed in Breton as “Lodenn gentañ” (first), “Eil lodenn” (second), “Trede lodenn” (third) and so on.

```

265 \SetString{\Partnameord}{Lodenn}
266 \SetString{\partnameord}{lodenn}
267 \SetStringLoop{ordinal#1}{%
268   Kenta~n,Eil,Trede,Pevare,Pempvet,C'hwec'hvet,Seizhvet,Eizhvet,%
269   Navvet,Dekvet,Unnekvet,Daouzekvet,Trizekvet,Pevarzekvet,Pemzekvet,%
270   C'hwezekvet,Seitekvet,Triwec'hvet,Naontekvet,Ugentvet,%
271   Unanvet warn-ugent,Eil warn-ugent,Trede warn-ugent,%
272   Pevare warn-ugent,Pempvet warn-ugent,C'hwec'hvet warn-ugent,%
273   Seizhvet warn-ugent,Eizhvet warn-ugent,Navvet warn-ugen,Tregontvet}
274 \SetString{\partname}{%
275   \ifcase\value{part}\Partnameord
276   \or \Partnameord\space genta~n
277   \else \csname ordinal\romannumeral\value{part}\endcsname
278   \space \partnameord
279   \fi
280   \def\thepart{\unskip}}
281 \EndBabelCommands

```

2.5 Date in Breton

```

\deiziad
\today 282 \StartBabelCommands*{breton}{date}
283   \SetStringLoop{month#1name}{%
284     Genver, C'hwevrer, Meurzh, Ebrel, Mae, Mezheven,
285     Gouere, Eost, Gwengolo, Here, Du, Kerzu}
286   \SetString\today{\deiziad{\year}{\month}{\day}}
287 \EndBabelCommands
288 \newcommand*{\deiziad}[3]{%
289   {\ifnum1=#3{\kentan}\space \else {\number#3} a viz\fi
290   \csname month\romannumeral#2name\endcsname
291   \ifx#1\@empty\else\space\number#1\fi}}

```

2.6 Extra utilities

Some handy macros for numbering. If $n > 5$, use $n \backslash \text{vet}$.

```

\kentan
\eil 292 \def\kentan{1\textsuperscript{añ}}
\re 293 \def\eil{2\textsuperscript{l}}
\trede 294 \def\re{3\textsuperscript{e}}
\pevare 295 \def\trede{3\re}
\vet 296 \def\pevare{4\re}
\pempvet 297 \def\vet{\textsuperscript{vet}}
298 \def\pempvet{5\vet}

```

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 will use the breton name `\tildenninstead`.

Note that `\boi` may *not* be used in math mode, its name in math mode is `\backslash`. In Breton backslash is `\kilveskell`.

`\degre` can be poorly accessed by the command `\r{}` for ring accent. `\degre` is `\derez` in Breton.

“^” alone (`\textasciicircum`) is coded `\tiredkognek`.

```

299 \AtEndOfPackage{\RequirePackage{scalefnt}}
300 \if\bbbl@engine>\z@
301   \providecommand*\textbackslash{{\char"005C}}
302   \providecommand*\textasciicircum{{\char"005E}}
303   \providecommand*\textasciitilde{{\char"007E}}
304   \DeclareRobustCommand*\derez{{}^}
305 \else
306   \DeclareRobustCommand*\derez{{\textdegree}}
307 \fi
308 \DeclareRobustCommand*\boi{{\textbackslash}% keep it for french users
309 \DeclareRobustCommand*\kilveskell{{\textbackslash}% OPLB
310 \DeclareRobustCommand*\tiredkognek{{\textasciicircum}% OPLB
311 \DeclareRobustCommand*\tildenn{{\textasciitilde}% OPLB

```

`\Ker` Stroked K (and k), `\ker` (and `\kerbihan`), give an Unicode glyph if it exists in font, else `\kerbihan` overlapped K/.

```

312 \NewDocumentCommand{\Ker}{0{.5}0{.7}}{
313   \ifnum\bbbl@engine > \z@
314     \iffontchar\font "A742 \char"A742 \relax
315   \else
316     \settowidth{\@tempdima}{K}%
317     \makebox[0pt][l]{\hskip#1\@tempdima\raisebox{-.1ex}{\scalefont{#2}}}{K}%
318   \fi
319 \else
320   \settowidth{\@tempdima}{k}%
321   \makebox[0pt][l]{\hskip#1\@tempdima\raisebox{-.1ex}{\scalefont{#2}}}{k}%
322 \fi
323 }%K barrennet
324 \NewDocumentCommand{\kerbihan}{0{.6}0{.5}}{
325   \ifnum\bbbl@engine > \z@
326     \iffontchar\font "A743 \char"A743 \relax
327   \else
328     \settowidth{\@tempdima}{k}%
329     \makebox[0pt][l]{\hskip#1\@tempdima\raisebox{-.1ex}{\scalefont{#2}}}{k}%
330   \fi
331 \else
332   \settowidth{\@tempdima}{k}%
333   \makebox[0pt][l]{\hskip#1\@tempdima\raisebox{-.1ex}{\scalefont{#2}}}{k}%

```

```
334 \fi
335}%k barrennet
```

2.7 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.

```
336 \ldf@finish{breton}
```