

# paresse user guide\*

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October 10, 2020

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## Abstract

This package implements an example from T. LACHAND-ROBERT in [1]. It provides a means of typing isolated greek letters with the character `§` activated and redefined. Instead of `\(\alpha\)` one types `§a` to obtain  $\alpha$ .

**Important:** You have to load it **after** the `inputenc` package if the latter is used. Moreover the sign `§` must be a letter for `TEX`. Since version 4, one can use this package even with utf8-encoded source for `LATEX`, `LuaLATEX`, or `XƎLATEX`.

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## Résumé

La documentation française pour l'utilisateur de l'extension `paresse` est disponible sous le nom de `paresse-fra`.

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\*This file describes version 5.0.1, last revised 2020/10/06. *Adieu to skeyval* edition.

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# 1 Introduction

This package provides only a ‘quick and low-cost’ access to greek letters which one can obtain with a macro such as `\alpha` or `\Omega`. It provides also an environment and a macro which make possible the use of § to type in those letters. Because of an `\ensuremath` we are not bound to explicitly enter —i.e. by typing `$ $` or `\( \)` or else `\[ \]` or anything whatsoever with the same effect— mathematics mode to obtain a greek letter.

The idea of the method is from T. LACHAND-ROBERT and described in [1]. I have just add the `\ensuremath` which is so agreeable to write macros.

There is *no* macros for the lowercase omicron nor for the uppercase alpha, beta... that one can obtain with the latin roman letters with the same look. I have not had the courage nor the strength to build a solution which would provide a means of obtaining an upright uppercase alpha in a math formula embedded in an italic boldfaced text.

Even if the meaning of the French ‘paresse’ is just ‘lazyness’ I would like to emphasize that the name of this package comes from the fact that the sign § can be used to point at a paragraph and looks like an S. So there is no connection between the name and the not unfrequent sin of the same (French) name... or maybe...

## 1.1 Why a 5th Version?

I was happily using `paresse` almost every day until when, some days ago, all hell broke loose! I was insulted just by loading `paresse`. To put it in a nutshell: the culprit is an improvement of the  $\text{\LaTeX} 2_{\epsilon}$  kernel which wreacks havoc in the highly unconventional code of `skeyval`. As it seems very improbable that that package will be corrected any time soon, I’ve decided to rewrite some parts of `paresse` with `expl3`.

So that is why I touch the more than seven-year-old code of this package.

With this 5th version come two *sub*-packages: `paresse-old` and `paresse-utf8` which are directly loadable. They have the same options and commands as `paresse` itself. In fact `paresse` loads one of them according to the situation.

One will use `paresse-utf8` if and only if the source is utf-8 encoded and compiled with `latex` i. e. with the  $\text{\TeX}$ -engine and the  $\text{\LaTeX}$  format. In all other case, on will use `paresse-old`.

The documentation of `paresse` covers the use of the three packages.

## 1.2 Why a 4th Version?

I don’t remember exactly on what occasion — age, disk crash and computer mishap aiding — and even less when — more than a year ago, I’m afraid<sup>1</sup> — Christian TELLECHEA wrote me that he would be glad to use `paresse` in his utf-8 encoded sources with  $\text{\LaTeX}$  — not with  $\text{\XeLaTeX}$  nor  $\text{\LuaLaTeX}$ .

We exchanged emails, Christian sent me working material. He even made me the gift of two versions, the second better for the identification of the encoding passed, as an option, to `inputenc`. However I procrastinated. My personal life and my job may have interfered with the development of this package.

At last, here is the thing.

The newest feature should escape the user of  $\text{\LuaLaTeX}$  or  $\text{\XeLaTeX}$  and even of  $\text{\LaTeX}$  loading `inputenc` with an option such as `latin1` or `latin9`. However, henceforth, one can use this package with  $\text{\LaTeX}$  loading `inputenc` with option `utf8`.

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<sup>1</sup>I wrote this section in 2013 when the 4th version was published.

I take advantage of this new version to add a §-macro: `\S` which produces §, symbol already available with `\S`, so I don't dare to present it as a real "shortcut".

### 1.3 Why a 3rd Version?

With a mail Claudio BECCARI kindly informed me that there was an encoding of the greek alphabet with latin letters some 15 years before I committed this extension. This encoding was devised by Sylvio LEVI who, at the time, was designing the first greek font for T<sub>E</sub>X, using the correspondance between greek and US keyboard. Claudio wrote to me, and I can't but agree with him, that if one is used to LEVI's encoding, one would rather keep one's habit in order to use `parasse`.

I, then, decided to provide a new couple of mutually exclusive options: the first one is `LEGACY` with which one obtain the original encoding of this extension and which is active by default, the other one is `LEVI` which provides Sylvio LEVI's encoding.

I take advantage of this update to make some cosmetic changes: from now on all inner *secret* macros<sup>2</sup> have a name which begins with `\GA@`; the `.dtx` file is reorganised to facilitate the translation of the documentation.

## 2 Usage

One loads the package with `\usepackage{parasse}`. When one uses L<sup>A</sup>T<sub>E</sub>X with an 8-bit encoded source (e.g. `latin9`), one must load `parasse` **after** the package `inputenc` with the correct option.

In all cases the sign § must be recognised as a letter by T<sub>E</sub>X.

One will obtain the same behaviour, but for the exception pointed out in paragraph **restriction** on page 3, with `inputenc` and option `utf8`.

There is no such restriction when one compiles with LuaL<sup>A</sup>T<sub>E</sub>X or XeL<sup>A</sup>T<sub>E</sub>X a source encoded in utf-8.

By default the package is loaded with option `wild` and so the macros such as `\Sa` are immediately available. If one prefers one can choose the option `TAME` by writing `\usepackage[tame]{parasse}`. One must then use the command `\ActiveLaParsesse` or the environment `ParsesseActive` to use the '§-macros'.

When 'parasse' is active, one has just to type `\Sa` in to obtain  $\alpha$ . One has access, by the same means, to all the other greek letters to which a macro is devoted such as `\alpha`, see the tables 5.1 and 5.2. One obtains  $\alpha^\beta$  with `\(Sa^{\Sb}\)` when § is active.

**Restriction** One will note that the curly braces are *not* compulsory and that one obtains the same result with just `\(Sa^{\Sb}\)` **unless** one uses a utf-8 encoded source with L<sup>A</sup>T<sub>E</sub>X.

## 3 The Package Options

In the margin the default options are in boldface.

`tame / wild`

- `TAME` is the contrary of `WILD` which is the option by default. When `TAME` reigns, one **must** use an environment `ParsesseActive` or a command `\ActiveLaParsesse` in order to use the §-macros.

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<sup>2</sup>Macros à la mode L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>. As of version 5.0, partially *translated* in expl3, when dealing with expl3 commands and variables I use the prefix `parasse`.

- `legacy / Levi`
  - LEVI is the contrary of LEGACY which is the default. With LEGACY one uses the original encoding of `paresse` as it is given by the table 5.1. If the option LEVI is enforced, one uses the Sylvio LEVI encoding, see the table 5.2.
  
- `ttau / ttheta`
  - TTAU is the contrary of TTHETA which is selected by default. When TTHETA is active `§t` gives  $\theta$  in the contrary `§t` gives  $\tau$ . In all cases,  $\theta$  is given by `§v` and  $\tau$  by `§y`. That option is ineffective when one has chosen LEVI.
  - Remark:** when one has chosen the option LEGACY,  $\Theta$  is ‘regularly’ obtained with `§V` and *also* with `§T` whatever is the chosen option. In the case of the option LEVI, `§V` doesn’t correspond to any greek letter.
  
- `epsilon / varepsilon`
  - EPSILON is the contrary of VAREPSILON which is selected by default. With EPSILON, `§e` gives  $\epsilon$  otherwise `§e` gives  $\varepsilon$ .
  - The following ‘couples’ behave as EPSILON, VAREPSILON: THETA and VARTHETA; PI and VARPI; RHO and VARRHO; SIGMA and VARSIGMA; PHI and VARPHI.

The default options are VAREPSILON, THETA, PI, RHO, SIGMA, VARPHI, WILD and LEGACY. That ensures that this 3rd version behaves, by default, as the preceding one.

## 4 Commands and Environment

- `\makeparasseletter` This command gives the letter-catcode to the ‘character’ `§`. After that one can use `§` in the name of a macro, for instance. It corresponds to the well-known `\makeatletter`.
- `\makeparasseother` This macro gives the catcode *other* to the character `§`. It is the ‘contrary’ of the preceding one. It corresponds to `\makeatother`.  
This macro is inactivated when one uses a utf-8 encoding with L<sup>A</sup>T<sub>E</sub>X. In such a case it wouldn’t have a clear meaning. When used it issues a warning in the `.log` file.
- `\ActiveLaParsesse` This macro makes `§` active and thus enable one to access the macros the name of which begins with `§` such as `§a`. A list of these macros and theirs meanings is given in the tables 5.1 and 5.2.
- `ParsesseActive` In this environment `§` is active and one can use the `§`-macros. One could use this environment if one want to use the `§`-macros when the package `paresse` is loaded with the option `tame`.

## 5 Tables of the Macros

### 5.1 pairesse's Original Encoding

This is the active encoding when one choses the options `LEGACY` and `TTHETA` which are the default.

This version 5.0 adds  $\varsigma$  obtained with `\$j`.

<code>\\$a</code>	$\alpha$	<code>\\$b</code>	$\beta$	<code>\\$g</code>	$\gamma$	<code>\\$d</code>	$\delta$
<code>\\$e</code>	$\varepsilon$	<code>\\$z</code>	$\zeta$	<code>\\$h</code>	$\eta$	<code>\\$v</code>	$\theta$
<code>\\$i</code>	$\iota$	<code>\\$k</code>	$\kappa$	<code>\\$l</code>	$\lambda$	<code>\\$m</code>	$\mu$
<code>\\$n</code>	$\nu$	<code>\\$x</code>	$\xi$	<code>\\$p</code>	$\pi$	<code>\\$r</code>	$\rho$
<code>\\$s</code>	$\sigma$	<code>\\$y</code>	$\tau$	<code>\\$u</code>	$\upsilon$	<code>\\$f</code>	$\varphi$
<code>\\$c</code>	$\chi$	<code>\\$q</code>	$\psi$	<code>\\$w</code>	$\omega$	<code>\\$j</code>	$\varsigma$
<code>\\$G</code>	$\Gamma$	<code>\\$D</code>	$\Delta$	<code>\\$V</code>	$\Theta$	<code>\\$L</code>	$\Lambda$
<code>\\$X</code>	$\Xi$	<code>\\$P</code>	$\Pi$	<code>\\$S</code>	$\Sigma$	<code>\\$U</code>	$\Upsilon$
<code>\\$F</code>	$\Phi$	<code>\\$Q</code>	$\Psi$	<code>\\$W</code>	$\Omega$	<code>\\$Z</code>	$\S$

<code>\\$a</code>	$\alpha$	<code>\\$b</code>	$\beta$	<code>\\$c</code>	$\chi$	<code>\\$d</code>	$\delta$	<code>\\$e</code>	$\varepsilon$	<code>\\$f</code>	$\varphi$
<code>\\$g</code>	$\gamma$	<code>\\$h</code>	$\eta$	<code>\\$i</code>	$\iota$	<code>\\$j</code>	$\varsigma$	<code>\\$k</code>	$\kappa$	<code>\\$l</code>	$\lambda$
<code>\\$m</code>	$\mu$	<code>\\$n</code>	$\nu$	<code>\\$o</code>		<code>\\$p</code>	$\pi$	<code>\\$q</code>	$\psi$	<code>\\$r</code>	$\rho$
<code>\\$s</code>	$\sigma$	<code>\\$t</code>	$\theta$	<code>\\$u</code>	$\upsilon$	<code>\\$v</code>	$\theta$	<code>\\$w</code>	$\omega$	<code>\\$x</code>	$\xi$
<code>\\$y</code>	$\tau$	<code>\\$z</code>	$\zeta$	<code>\\$A</code>		<code>\\$B</code>		<code>\\$C</code>		<code>\\$D</code>	$\Delta$
<code>\\$E</code>		<code>\\$F</code>	$\Phi$	<code>\\$G</code>	$\Gamma$	<code>\\$H</code>		<code>\\$I</code>		<code>\\$J</code>	
<code>\\$K</code>		<code>\\$L</code>	$\Lambda$	<code>\\$M</code>		<code>\\$N</code>		<code>\\$O</code>		<code>\\$P</code>	$\Pi$
<code>\\$Q</code>	$\Psi$	<code>\\$R</code>		<code>\\$S</code>	$\Sigma$	<code>\\$T</code>	$\Theta$	<code>\\$U</code>	$\Upsilon$	<code>\\$V</code>	$\Theta$
<code>\\$W</code>	$\Omega$	<code>\\$X</code>	$\Xi$	<code>\\$Y</code>		<code>\\$Z</code>	$\S$				

**Remarks :** all the latin letters used in the name of the `\$`-macros, but for  $\theta$ ,  $\tau$ ,  $\psi$  and  $\varsigma$ , are loaded with reminiscences, I hope :-)) and the greek uppercases are obtained with the (latin) corresponding uppercases.

## 5.2 Sylvio Levi's Encoding

One make this encoding active with the option LEVI.

$\S a$	$\alpha$	$\S b$	$\beta$	$\S g$	$\gamma$	$\S d$	$\delta$
$\S e$	$\varepsilon$	$\S z$	$\zeta$	$\S h$	$\eta$	$\S j$	$\theta$
$\S i$	$\iota$	$\S k$	$\kappa$	$\S l$	$\lambda$	$\S m$	$\mu$
$\S n$	$\nu$	$\S x$	$\xi$	$\S p$	$\pi$	$\S r$	$\rho$
$\S s$	$\sigma$	$\S t$	$\tau$	$\S u$	$\upsilon$	$\S f$	$\varphi$
$\S q$	$\chi$	$\S y$	$\psi$	$\S w$	$\omega$	$\S c$	$\varsigma$
$\S G$	$\Gamma$	$\S D$	$\Delta$	$\S J$	$\Theta$	$\S L$	$\Lambda$
$\S X$	$\Xi$	$\S P$	$\Pi$	$\S S$	$\Sigma$	$\S U$	$\Upsilon$
$\S F$	$\Phi$	$\S Y$	$\Psi$	$\S W$	$\Omega$	$\S Z$	$\S \S$

Sylvio LEVI's encoding gives a direct acces to `\varsigma` ( $\varsigma$ ) with  $\chi$  and is different from the original encoding just for the letters  $\theta$ ,  $\tau$ ,  $\chi$  et  $\psi$ . Here is a summary of theses differences:

greek letters	$\theta$	$\tau$	$\chi$	$\psi$	$\Theta$	$\Psi$	$\varsigma$
original encoding	$\S v/\S t$	$\S y/\S t$	$\S c$	$\S q$	$\S V/\S T$	$\S Q$	$\S j$
S. LEVI's encoding	$\S j$	$\S t$	$\S q$	$\S y$	$\S J$	$\S Y$	$\S c$

## References

- [1] T. LACHAND-ROBERT. *La maîtrise de T<sub>E</sub>X et L<sup>A</sup>T<sub>E</sub>X*. Masson, Paris, Milan, Barcelone, 1995. ISBN : 2-225-84832-7.

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*Le TeXnicien de Surface scripsit.*

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