The paresse package*

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Résumé

Cette extension, reprenant un exemple de T. Lachand-Robert dans [1], fournit un moyen de taper des lettres grecques isolées à l'aide du caractère § actif et redéfini. Au lieu de `\(\alpha\)` ou tape `§a` pour obtenir α.
Important : Il doit être chargé **après** inputenc si ce dernier est utilisé. De plus, il faut que le signe § soit une lettre pour TEX.
Depuis la version 4, on peut utiliser cette extension même dans un source codé en utf-8 avec LATEX, LuaLATEX ou XeLATEX.
La documentation française pour l'utilisateur de l'extension paresse est disponible sous le nom de `paresse-fra`.

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 α.
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 XeLATEX.
The English documentation for the final user of the package paresse is available in the file `paresse-eng`.

1 paresse implementation

Three packages are coded below: the main one paresse loads one of the other two paresse-old or paresse-utf8 depending on the TEX-engine used and the encoding of the source.

The prefix is `paresse` for the three packages.

```
1 ⟨@@=paresse⟩
```

The main package paresse begins here.

```
2 \ProvidesExplPackage
3   {\ExplFileName}{\ExplFileDate}{\ExplFileVersion}{\ExplFileDescription}
```

*This file describes v5.0.2, last revised 2021/05/16.

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Header of paresse-old:

```
\ProvidesExplPackage
  {\ExplFileName-old}{\ExplFileDate}{\ExplFileVersion}{\ExplFileDescription}
```

Header of paresse-utf8:

```
\ProvidesExplPackage
  {\ExplFileName-utf8}{\ExplFileDate}{\ExplFileVersion}{\ExplFileDescription}
```

The three packages require xparse and l3keys2:

```
\RequirePackage{xparse}
\RequirePackage{l3keys2e}
```

but the main paresse alone requires iftex to proceed according to the TEX-engine.

```
\RequirePackage{iftex}

\cs_if_exist:NF \__paresse_main_package_loaded:
{

\keys_define:nn {paresse}
{
  encoding_is_legacy .bool_set:N = \g__paresse_encoding_is_legacy_bool,
  encoding_is_levi .bool_set_inverse:N =
    \g__paresse_encoding_is_legacy_bool,
  legacy .meta:n = {
    encoding_is_legacy = #1
  },
  legacy .default:n = {true},
  legacy .initial:n = {true},
  levi .meta:n = {
    encoding_is_levi = #1
  },
  levi .default:n = {true},
  levi .initial:n = {false},

  mood_is_wild .bool_set:N = \g__paresse_mood_is_wild_bool,
  mood_is_tame .bool_set_inverse:N =
    \g__paresse_mood_is_wild_bool,
  wild .meta:n = {
    mood_is_wild = #1
  },
  wild .default:n = {true},
  wild .initial:n = {true},
  tame .meta:n = {
    mood_is_tame = #1
  },
  tame .default:n = {true},
  tame .initial:n = {false},

  letter_t_is_theta .bool_set:N =
    \g__paresse_letter_t_is_theta_bool,
  letter_t_is_tau .bool_set_inverse:N =
    \g__paresse_letter_t_is_theta_bool,
  ttheta .meta:n = {
    letter_t_is_theta = #1
  },
  ttheta .default:n = {true},
```

```
  ttheta .initial:n = {true},
  ttau .meta:n = {
    letter_t_is_tau = #1
  },
  ttau .default:n = {true},
  ttau .initial:n = {false},

  letter_theta_is_theta .bool_set:N =
    \g__paresse_letter_theta_is_theta_bool,
  letter_theta_is_vartheta .bool_set_inverse:N =
    \g__paresse_letter_theta_is_theta_bool,
  theta .meta:n = {
    letter_theta_is_theta = #1
  },
  theta .default:n = {true},
  theta .initial:n = {true},
  vartheta .meta:n = {
    letter_theta_is_vartheta = #1
  },
  vartheta .default:n = {true},
  vartheta .initial:n = {false},

  letter_pi_is_pi .bool_set:N =
    \g__paresse_letter_pi_is_pi_bool,
  letter_pi_is_varpi .bool_set_inverse:N =
    \g__paresse_letter_pi_is_pi_bool,
  pi .meta:n = {
    letter_pi_is_pi = #1
  },
  pi .default:n = {true},
  pi .initial:n = {true},
  varpi .meta:n = {
    letter_pi_is_varpi = #1
  },
  varpi .default:n = {true},
  varpi .initial:n = {false},

  letter_rho_is_rho .bool_set:N =
    \g__paresse_letter_rho_is_rho_bool,
  letter_rho_is_varrho .bool_set_inverse:N =
    \g__paresse_letter_rho_is_rho_bool,
  rho .meta:n = {
    letter_rho_is_rho = #1
  },
  rho .default:n = {true},
  rho .initial:n = {true},
  varrho .meta:n = {
    letter_rho_is_varrho = #1
  },
  varrho .default:n = {true},
  varrho .initial:n = {false},

  letter_sigma_is_sigma .bool_set:N =
    \g__paresse_letter_sigma_is_sigma_bool,
```

```
  letter_sigma_is_varsigma .bool_set_inverse:N =
    \g__paresse_letter_sigma_is_sigma_bool,
  sigma .meta:n = {
    letter_sigma_is_sigma = #1
  },
  sigma .default:n = {true},
  sigma .initial:n = {true},
  varsigma .meta:n = {
    letter_sigma_is_varsigma = #1
  },
  varsigma .default:n = {true},
  varsigma .initial:n = {false},

  letter_epsilon_is_epsilon .bool_set:N =
    \g__paresse_letter_epsilon_is_epsilon_bool,
  letter_epsilon_is_varepsilon .bool_set_inverse:N =
    \g__paresse_letter_epsilon_is_epsilon_bool,
  epsilon .meta:n = {
    letter_epsilon_is_epsilon = #1
  },
  epsilon .default:n = {true},
  epsilon .initial:n = {false},
  varepsilon .meta:n = {
    letter_epsilon_is_varepsilon = #1
  },
  varepsilon .default:n = {true},
  varepsilon .initial:n = {true},

  letter_phi_is_phi .bool_set:N =
    \g__paresse_letter_phi_is_phi_bool,
  letter_phi_is_varphi .bool_set_inverse:N =
    \g__paresse_letter_phi_is_phi_bool,
  phi .meta:n = {
    letter_phi_is_phi = #1
  },
  phi .default:n = {true},
  phi .initial:n = {false},
  varphi .meta:n = {
    letter_phi_is_varphi = #1
  },
  varphi .default:n = {true},
  varphi .initial:n = {true},
}
\ProcessKeysOptions {paresse}
\bool_if:nTF {\g__paresse_letter_epsilon_is_epsilon_bool}
{\cs_new:Npn \__paresse_epsilon {\epsilon}}
{\cs_new:Npn \__paresse_epsilon {\varepsilon}}

\bool_if:nTF {\g__paresse_letter_theta_is_theta_bool}
{\cs_new:Npn \__paresse_theta {\theta}}
{\cs_new:Npn \__paresse_theta {\vartheta}}

\bool_if:nTF {\g__paresse_letter_pi_is_pi_bool}
```

```
{\cs_new:Npn \__paresse_pi {\pi}}
{\cs_new:Npn \__paresse_pi {\varpi}}

\bool_if:nTF {\g__paresse_letter_rho_is_rho_bool}
{\cs_new:Npn \__paresse_rho {\rho}}
{\cs_new:Npn \__paresse_rho {\varrho}}

\bool_if:nTF {\g__paresse_letter_sigma_is_sigma_bool}
{\cs_new:Npn \__paresse_sigma {\sigma}}
{\cs_new:Npn \__paresse_sigma {\varsigma}}

\bool_if:nTF {\g__paresse_letter_phi_is_phi_bool}
{\cs_new:Npn \__paresse_phi {\phi}}
{\cs_new:Npn \__paresse_phi {\varphi}}

\bool_new:c {g__paresse_file_encoding_is_utf8_bool}
}
\cs_new:Nn \__paresse_main_package_loaded: {}
\ifluatex
```

luatex specific code

```
\PackageInfo{paresse}{compiling~with~luatex}
\RequirePackageWithOptions{paresse-old}
\else
```

code for other engines

```
\ifxetex
```

xetex specific code

```
\PackageInfo{paresse}{compiling~with~xetex}
\RequirePackageWithOptions{paresse-old}
\else
```

nor luatex nor xetex

```

\PackageInfo{paresse}{compiling~with~tex}

\newcommand\default@encoding@message{
  \bool_gset_true:c {g__paresse_file_encoding_is_utf8_bool}
  \PackageWarningNoLine{paresse}{
    The~package~"paresse"~expects~a~"utf8"~encoded~file.~
    In~case~of~an~8~bits~encoding,~
    please~use~inputenc~with~the~correct~option}
}

\newcommand\find@encoding{
  \begingroup
  \def\utf@encoding{utf8}
  \def\temp@a{
    \bool_gset_false:c {g__paresse_file_encoding_is_utf8_bool}
    \PackageInfo{paresse}{8-bit~encoding~expected\@gobble}
  }
  \ifx\utf@encoding\inputencodingname
  \def\temp@a{
```

```
    \bool_gset_true:c {g__paresse_file_encoding_is_utf8_bool}
    \PackageInfo{paresse}{utf8~encoding~detected\@gobble}
  }
  \fi
  \expandafter\endgroup\temp@a}

\@ifpackageloaded{inputenc}
{
  \PackageInfo{paresse}{inputenc~loaded}
}
{
  \PackageInfo{paresse}{inputenc~not~loaded,~utf8~expected\@gobble}
}

\AtBeginDocument
{
  \@ifpackageloaded{inputenc} \find@encoding \default@encoding@message
  \ExplSyntaxOn
  \makeatletter
  \bool_if:nTF {\use:c{g__paresse_file_encoding_is_utf8_bool}}
  {
    \PackageInfo{paresse}{charge~utf8}
    \RequirePackageWithOptions{paresse-utf8}
  }
  {
    \PackageInfo{paresse}{charge~vieux}
    \RequirePackageWithOptions{paresse-old}
  }
  \makeatother
  \ExplSyntaxOff
}

\fi % END OF ifxetex
\fi % END OF ifluatex

\count@=\catcode`\^^a7
\let\GA@LaVieilleParesse= ^^a7
\def\^^a7{\S}
\newcommand{\makeparesseletter}{\catcode `\^^a7=11\relax}
\newcommand{\makeparesseother}{\catcode `\^^a7=12\relax}
\newcommand{\GA@MakeParesseActive}{\catcode `\^^a7=\active}
\def\GA@ActiveLaParessexii{\catcode `\^^a7=\active}
\def\GA@ActiveLaParessexiii{\catcode `\^^a7=\active
  \def^^a7##1{\ensuremath{\csname \string^^a7##1\endcsname}}}
\ifnum\count@=12
  \let\GA@ActiveLaParesse \GA@ActiveLaParessexii
\else
  \let\GA@ActiveLaParesse \GA@ActiveLaParessexiii
\fi
\newcommand{\ActiveLaParesse}{\GA@ActiveLaParesse}
\newenvironment{ParesseActive}{\GA@ActiveLaParesse}{}

\makeparesseletter
\def\^^a7a {\alpha}
\def\^^a7b {\beta}
```

```
\def\^^a7g {\gamma}
\def\^^a7d {\delta}
\def\^^a7e {\__paresse_epsilon}
\def\^^a7z {\zeta}
\def\^^a7h {\eta}
\def\^^a7i {\iota}
\def\^^a7k {\kappa}
\def\^^a7l {\lambda}
\def\^^a7m {\mu}
\def\^^a7n {\nu}
\def\^^a7x {\xi}
\def\^^a7p {\__paresse_pi}
\def\^^a7r {\__paresse_rho}
\def\^^a7s {\__paresse_sigma}
\def\^^a7u {\upsilon}
\def\^^a7f {\__paresse_phi}
\def\^^a7w {\omega}

\bool_if:nTF {\g__paresse_encoding_is_legacy_bool}
{
  \def\^^a7j {\varsigma}
  \def\^^a7v {\__paresse_theta}
  \def\^^a7y {\tau}
  \def\^^a7c {\chi}
  \def\^^a7q {\psi}
  \bool_if:nTF {\g__paresse_letter_t_is_theta_bool}
  {
    \def\^^a7t {\__paresse_theta}
  }
  {
    \def\^^a7t {\tau}
  }
}
{
  \def\^^a7j {\__paresse_theta}
  \def\^^a7t {\tau}
  \def\^^a7q {\chi}
  \def\^^a7y {\psi}
  \def\^^a7c {\varsigma}
}
\def\^^a7G {\Gamma}
\def\^^a7D {\Delta}
\def\^^a7L {\Lambda}
\def\^^a7P {\Pi}
\def\^^a7S {\Sigma}
\def\^^a7U {\Upsilon}
\def\^^a7F {\Phi}
\def\^^a7X {\Xi}
\def\^^a7W {\Omega}
\bool_if:nTF {\g__paresse_encoding_is_legacy_bool}
{
  \def\^^a7V {\Theta}
  \def\^^a7T {\Theta}
  \def\^^a7Q {\Psi}
```

```
}
{
  \def\^^a7J {\Theta}
  \def\^^a7Y {\Psi}
}
\def\^^a7Z {\S}
\catcode `\^^a7=\active
\def^^a7#1{\ensuremath{\csname \string^^a7#1\endcsname}}

\bool_if:nF {\g__paresse_mood_is_wild_bool}
{
  \catcode`\^^a7=\count@
  \ifnum\count@=13 \let ^^a7=\GA@LaVieilleParesse \fi
}
\begingroup
\catcode`\"=12
\catcode`\<=12
\catcode`\.=12
\catcode`\,=12
\catcode`\;=12
\catcode`\!=12
\catcode`\~=13
\global\let\GA@parse@UTFviii@a=\parse@UTFviii@a
\global\let\GA@parse@UTFviii@b=\parse@UTFviii@b
\gdef\declareunicodecharacter#1#2{
   \count@"#1\relax
   \wlog{\space\space Redefining~Unicode~char~U+#1~(decimal~\the\count@)}
   \begingroup
    \GA@parse@XML@charref
    \def\UTFviii@two@octets##1##2{\csname u8:##1\string##2\endcsname}
    \def\UTFviii@three@octets##1##2##3{\csname u8:##1
      \string##2\string##3\endcsname}
    \def\UTFviii@four@octets##1##2##3##4{\csname u8:##1
      \string##2\string##3\string##4\endcsname}
    \expandafter\expandafter\expandafter
    \expandafter\expandafter\expandafter
    \expandafter
    \gdef\UTFviii@tmp{\IeC{#2}}
    \endgroup}
\gdef\GA@parse@XML@charref{
  \ifnum\count@<"A0\relax
     \PackageError{inputenc}{Cannot\space define\space Unicode\space
       char\space value\space <\space 00A0}\@eha
  \else\ifnum\count@<"800\relax
     \GA@parse@UTFviii@a,
     \GA@parse@UTFviii@b C\UTFviii@two@octets.,
  \else\ifnum\count@<"10000\relax
     \GA@parse@UTFviii@a;
     \GA@parse@UTFviii@a,
     \GA@parse@UTFviii@b E\UTFviii@three@octets.{,;}
   \else
     \GA@parse@UTFviii@a;
     \GA@parse@UTFviii@a,
     \GA@parse@UTFviii@a!
```

```
      \GA@parse@UTFviii@b F\UTFviii@four@octets.{!,;}
    \fi
  \fi
\fi}
\endgroup
\newcommand{\makeparesseletter}{\DeclareUnicodeCharacter{00A7}\S}
\newcommand{\makeparesseother}{
  \PackageWarning{paresse}{
    Command \string\makeparesseother disabled}{
    The command \string\makeparesseother would have been meaningless
    in the current context}}
\newcommand{\ActiveLaParesse}{\declareunicodecharacter{00A7}\@paresse}
\newenvironment{ParesseActive}{\ActiveLaParesse}{}
\ActiveLaParesse
\def\@paresse{\futurelet\@toks\@i@paresse}
\def\@i@paresse{
  \csname\ifcat a\@toks @ii@paresse\else S\fi\endcsname}
\def\@ii@paresse#1{
  \ifcsname @paresse@#1\endcsname
    \csname @paresse@#1\endcsname\expandafter\@gobble
  \else
    \expandafter\@firstofone
  \fi{\S#1}}
\def\define@paresse@car#1#2{
  \expandafter\def\csname @paresse@#1\endcsname{\ensuremath{#2}}}

\define@paresse@car Z\S
\define@paresse@car a\alpha
\define@paresse@car b\beta
\define@paresse@car g\gamma
\define@paresse@car d\delta
\define@paresse@car e\__paresse_epsilon
\define@paresse@car z\zeta
\define@paresse@car h\eta
\define@paresse@car i\iota
\define@paresse@car k\kappa
\define@paresse@car l\lambda
\define@paresse@car m\mu
\define@paresse@car n\nu
\define@paresse@car x\xi
\define@paresse@car p\__paresse_pi
\define@paresse@car r\__paresse_rho
\define@paresse@car s\__paresse_sigma
\define@paresse@car u\upsilon
\define@paresse@car f\__paresse_phi
\define@paresse@car w\omega

\bool_if:nTF {\g__paresse_encoding_is_legacy_bool}
{
  \define@paresse@car j\varsigma
  \define@paresse@car v\__paresse_theta
  \define@paresse@car y\tau
  \define@paresse@car c\chi
  \define@paresse@car q\psi
```

```
  \bool_if:nTF {\g__paresse_letter_t_is_theta_bool}
  {
    \define@paresse@car t\__paresse_theta
  }
  {
    \define@paresse@car t\tau
  }
}
{
  \define@paresse@car j\__paresse_theta
  \define@paresse@car t\tau
  \define@paresse@car q\chi
  \define@paresse@car y\psi
  \define@paresse@car c\varsigma
}
\define@paresse@car G\Gamma
\define@paresse@car D\Delta
\define@paresse@car L\Lambda
\define@paresse@car P\Pi
\define@paresse@car S\Sigma
\define@paresse@car U\Upsilon
\define@paresse@car F\Phi
\define@paresse@car X\Xi
\define@paresse@car W\Omega

\bool_if:nTF {\g__paresse_encoding_is_legacy_bool}
{
  \define@paresse@car V\Theta
  \define@paresse@car T\Theta
  \define@paresse@car Q\Psi
}
{
  \define@paresse@car J\Theta
  \define@paresse@car Y\Psi
}

\bool_if:nF {\g__paresse_mood_is_wild_bool}{\makeparesseletter}
```

References

[1] T. Lachand-Robert. *La maîtrise de TEX et LATEX*. Masson, Paris, Milan, Barcelone, 1995. ISBN : 2-225-84832-7.

Change History

v0.0

General: New name, some redefinitions, first public version . 1

v1

General: Documentation updated 1

v1a

General: Correction of a bug in Infofile

which prevented the loading of the package 1
v2
General: A useless macro is deleted . . 1
Documentation reorganised 1
New wrapping to provide a tds.zip. . 1
v2.1
General: Correction of a bug in Infofile, once again 1
v3
General: Option for Sylvio Levi's encoding 1
v4
General: Documentation of the code in English 1
paresse goes utf8 1
v4.1
General: Using skeyval-bc instead of (moving forward) skeyval 1
v5.0
General: \varsigma is added as §j to legacy encoding. 1
Two sub-packages. 1
Uses expl3 to replace skeyval. 1
v5.0.1
General: Bug correction: keys ttheta and ttau had disappeared. 1
Some changes in documentation. . . . 1
v5.0.2
General: Correction of a typo in documentation. 1

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