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% keyboard_doc.txt original file name.      An idea of Bernard Gaille 93/08/17
%                                           Copyright Bernard Gaille as in french_doc.pdf
%
%                                           last mods 2005/02/28
%
% A LaTeX package able to customize LaTeX accordingly to your keyboard and
% translate a text from any input encoding to your own screen chars.
%
% Usage:      \documentclass[any_option]{any_class}
%             \usepackage[options]{keyboard}
%
%   Among options you can choose:
%
% - the keyboard input encoding
%   =====
%   ansinew, for ANSINEW encoding (Windows)
%   latin1, for ISO-Latin-1 (8859-1) remember: without french \oe!
%   latin9, for ISO-Latin-9 (8859-15) remember: with french \oe!
%           *default* if no keyboard.dat (user config. file)
%           and no keyboard.cfg (site config. file).
%   utf8, for utf8 part of unicode.
%   decmulti, for Dec Multinational
%   cp850, for PC DOS code page 850.
%   applemac, for usual Mac keyboards.
%   next, for Next engines.
%   ascii, for no input encoding. This is also an output option.
%
%   or any other of your choice assuming a xxx.kbc file exists.
%   (You can need to configure your own xxx.kbc file because
%   currently default xxx.kbc files are specially configured for French users)
%
%   noutf8, to avoid loading lot of utf8 files if never used.
%
% - the keyboard output encoding when using \kbttypeout{message}
%   =====
%   8b, force 8-bit output recoding.
%   7b, force "a la TeX" output, ie with macros such as \'e for e-accute.
%           (never expand to any 8bit character).
%   ascii, full 7bit coding output. This is also an input option.
%   ansi ***no more used***
%   onlychars, will output only chars defined as such (\catcode 11 or 12).
%   nooutputencoding for "do nothing when type out".
%
% This is currently just an input encoding.
% Will be also output encoding in a next version.
%
%%
%%      checksum      = "36681 229 809 10552"
%%
\ifnum\catcode'\@=11\else\expandafter\catcode'\@=11\fi
%
\let\ifLEX\iffalse\let\ifLEXhic\iftrue% Pass options to kbconfig.
\ifx\languagenam\undefined\else\edef\l@nguagenam{\languagenam}\fi
\DeclareOption{french}{\edef\l@nguagenam{\CurrentOption}%
}
\DeclareOption*{}% Don't process now\edef\l@nguagenam{\CurrentOption}%
\ProcessOptions% Process global options
%
\ifx\kbencoding\undefined%

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\def\kbcoding#1{\edef\resetat{\noexpand\catcode\string'%
\noexpand\@the\catcode'\@}\makeatletter%
\def\@kbcoding{#1}\@input kbconfig.tex \resetat}%
\fi%
\RequirePackage{msg}% Issue the messages with the "msg" package
\AtBeginDocument{\ifx\@msgencoding\undefined%
\else\def\@msgencoding#1{\kbcoding{#1}}%
\fi}%
\expandafter\let\expandafter\@aiguORI\expandafter=%
\csname OT\string1\string'\endcsname%
\expandafter\let\expandafter\@gravORI\expandafter=%
\csname OT\string1\string'\endcsname%
\expandafter\let\expandafter\@acchORI\expandafter=%
\csname OT\string1\string'\endcsname%
\expandafter\let\expandafter\@tremORI\expandafter=%
\csname OT\string1\string'\endcsname%
\expandafter\let\expandafter\@cediORI\expandafter=%
\csname OT\string1\string'\endcsname%
\def\@kbtypeout{#1}#2{\ifEightBitOutput\let\@typeset@protect\protect\fi%
\edef\@tempa{#2\empty}% Expand it now and type out.
\let\protect\relax% not \set@typeset@protect
#1{\@tempa}\egroup}%
\def\kbtypeout{\kbIO[\typeout]}%..... \kbtypeout
\def\@tempa{\newif\ifEightBitOutput\EightBitOutputfalse}%
\ifx\EightBitOutputfalse\undefined\expandafter\@tempa\fi%
\def\kbIO{\bgroup%..... \kbIO
\ifECM\fontencoding{OT1}\selectfont\fi% Basic fontencoding needed.
\let\@nobraes\@firstofone%
\set@display@protect%\let\protect\string%
\ifEightBitOutput% eg by kbconfig. Nullify accent macros when
\def\'###1{\expandafter\@nobraes\@aiguORI##1}%
\def\'###1{\expandafter\@nobraes\@gravORI##1}%
\def\'###1{\expandafter\@nobraes\@acchORI##1}%
\def\'###1{\expandafter\@nobraes\@tremORI##1}%
\def\'###1{\expandafter\@nobraes\@cediORI##1}%
\csname @kbspecials\endcsname% Translation settings.
\else% 7-bit output wanted.
\let\add@accent\@gobble%
\ifx\kb@ansi\undefined%
\def\set@display@protect{\let\protect\noexpand}% Have spaces!
\else\def\set@display@protect{%
\def\protect####1####2{\ifcat####2Z####2%
\else OE ####2\fi}}% or no macros.
\fi%
\fi%
\@kbtypeout}%
%
%%% Output options
%
\let\issuemsgio\kbtypeout% Let the "msg" pkg use defaultly our output macro.
\DeclareOption{8b}{\let\ifEightBitOutput\iftrue% Be sure your TeX engine
\def\@GobbleEmpty{ }% output correctly 8-bit chars!
\def\dGs{ }}%
\ifx\charsubdef\undefined\else%
\let\charsubdef\undefined% bg 2005/01/25
%{The mltx feature is nullified due to the option #1}{ }
\issuemsg[\kbtypeout]{86}(keyboard)[8b]%
\fi%
% Allow \GenericWarning to display real 8bit messages.

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\expandafter\long\expandafter%
\def\csname GenericWarning \endcsname#1#2{\begingroup\def\MessageBreak{#1}%
  \kbttypeout{ }% Simulate ^^J before sending the warning.
  \set@display@protect\kbttypeout{#2\on@line.^^J}\endgroup}
  }%
\DeclareOption{7b}{\let\ifEightBitOutput\iffalse% No 8b and
  \let\kbttypeout\typeout% no expansion
  \def\dGs{\noexpand\dGs}%
\ifx\charsubdef\undefined\else%
  \let\charsubdef\undefined% bg 2005/01/25
  %The mltex feature is nullified due to the option #1}{
  \issuemsg[\kbttypeout]{86}(keyboard)[7b]%
\fi%
  }%
\DeclareOption{ansi}{\ExecuteOptions{onlychars}}%
\DeclareOption{onlychars}{\let\ifEightBitOutput\iffalse%
  \kbencoding{ascii}%
  \def\@kbttypeout[#1]#2{%
    \InputIfFileExists{\language\name fc.tex}{ }{}%
    \expandafter\def\csname\@encoding-cmd\endcsname##1{%
      \expandafter\@nobra\@gobble}%
    \def\@x@protect##1\fi##2##3{\fi\expandafter\@x@protect\string##1+}%
    \def\@noexpand##1{\string##1\@GobbleEmpty}%
    \def\@x@protect##1##2+{##2}%
    \let\add@accent\@gobble%
    #1{#2\empty}\egroup}}%
\DeclareOption{nooutputencoding}{\let\kbttypeout\typeout}%
%
%% Input options
%
\def\@lKBo{\edef\@tempa{\@kbencoding}%
  \let\@tempg\CurrentOption%
  \ifx\ifEightBitOutput\undefined%
    \ExecuteOptions{7b}%
  \fi% Load option.kbc file
  \ifx\@tempa\CurrentOption\else\expandafter% if not already
    \kbencoding\expandafter{\CurrentOption}% loaded.
  \fi}%
\DeclareOption{ascii}{\let\ifEightBitOutput\iffalse%
  \kbencoding{ascii}%
  \let\kb@ansi\relax%
  \def\@kbttypeout[#1]#2{\edef\@tempa{#2\empty}%
    #1{\@tempa}\egroup}%
  }%
\DeclareOption{ansinew}{\@lKBo}% To allow global option.
\DeclareOption{applemac}{\@lKBo}% To allow global option.
\DeclareOption{cp850}{\@lKBo}% To allow global option.
\DeclareOption{decmulti}{\@lKBo}% To allow global option.
\DeclareOption{default}{\kbencoding{latin9}}%
\DeclareOption{latin1}{\@lKBo}% To allow global option.
\DeclareOption{latin9}{\@lKBo}% To allow global option.
\DeclareOption{next}{\@lKBo}% To allow global option.
\DeclareOption{noutf8}{% To avoid loading virtual noutf8.kbc.
  \def\@inpenc@test{%
    \issuemsg[\kbttypeout]{78}(keyboard)%
  }%
  \message{^^J -78- ERROR: conflicting noutf8 option provided.}%
  \stop%
  }% No more code here,
  }% real code is just below, before process of options.

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\DeclareOption{utf8}{\@lKBo}%
\DeclareOption*{\@lKBo}%
% Prepare preloading of utf8 encoding.
\def\@tempf{\edef\@tempd{utf8}%
  \ifx\@tempd\@kbencoding%
    \else% If no utf8 in format then
      \let\@tempb\@kbencoding\expandafter% (first save format encoding, then)
      \kbencoding\expandafter{\@tempd}% set appropriate utf8 definitions
      \let\@kbencoding\@tempb% (and restore format encoding).
    \fi}%
% If noutf8 option is provided, don't force preloading of utf8.
\def\@tempe#1/{\@tempa#1,}
\def\@tempa#1,{\def\@tempd{#1}\edef\@tempb{noutf8}%
  \def\@tempc{\ifx\@tempd\@tempb\else\expandafter\@tempf\fi\@tempa}%
  \ifx\@tempd\empty\expandafter\@gobble\else\expandafter\@tempc\fi}%
\ifx\@tempg\undefined%
  \expandafter\let\expandafter\@tempg\csname opt@keyboard.sty\endcsname%
\fi%
\ifx\@tempg\empty%
  \ifx\UTFviii@two@octets\undefined%
\issuemsg[\kbtypeout]{79}(keyboard)%
%\message{^^J -79- keyboard.sty: no local option given, %
%          no utf8 encoding available.}
  \fi%
\else
\expandafter\@tempe\@tempg,/relax% Scan options for noutf8.
\fi%
%
\InputIfFileExists{keyboard.cfg}{-}{-}% load site configuration file
\InputIfFileExists{keyboard.dat}{-}{-}% load user configuration file
\ifx\undefined\@kbencoding\ExecuteOptions{default}\fi%
\ProcessOptions%
\ProvidesPackage{keyboard}[2005/02/25 keyboard definitions now loaded.]
\def\@tempa{\ErrFrench}
\ifx\ifFLA\@tempa%
\issuemsg[\kbtypeout]{74}(keyboard)%
%\message{^^J -74- ERROR, keyboard package loaded after %
%          \frenchpack!}
\stop%
\fi%
\def\@tempa#1{\issuemsg[\kbtypeout]{57}(keyboard)[#1]%
  %{ -57- keyboard package #1 loaded; target font encoding is %
  % \f@encoding.^^J}%
  }%
\@tempa{V5.4}%
% Notice that:
% kbconfig provides, if not already defined, a new \if command
% \ifEightBitOutput which is usually set to false with standard TeX
% but set to true when the 8-bit change file of TeX has been implemented
% and activated; i mean the -translate option of web2c engines.
% This boolean value can be reset, if necessary, after kbconfig.
\endinput%

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