

# The `selinput` package

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## Abstract

This package selects the input encoding by specifying between input characters and their glyph names.

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## 1 Documentation

### 1.1 Introduction

L<sup>A</sup>T<sub>E</sub>X supports the direct use of 8-bit characters by means of package `inputenc`. However you must know and specify the encoding, e.g.:

```
\documentclass{article}
\usepackage[latin1]{inputenc}
% or \usepackage[utf8]{inputenc}
% or \usepackage[?]{inputenc}
```

```

\begin{document}
  Umlauts: ÄÖÜäöüß
\end{document}

```

If the document is transferred in an environment that uses a different encoding, then there are programs that convert the input characters. Examples for conversion of file `test.tex` from encoding `latin1` (ISO-8859-1) to UTF-8:

```

recode ISO-8859-1..UTF-8 test.tex
recode latin1..utf8 test.tex
iconv --from-code ISO-8859-1
      --to-code UTF-8
      --output testnew.tex
      test.tex
iconv -f latin1 -t utf8 -o testnew.tex test.tex

```

However, the encoding name for package `inputenc` must be changed:

```

\usepackage[latin1]{inputenc} → \usepackage[utf8]{inputenc}

```

Of course, unless you are using some clever editor that knows package `inputenc`, recodes the file and adjusts the option at the same time. But most editors can perhaps recode the file, but they let the option untouched.

Therefore package `selinput` chooses another way for specifying the input encoding. The encoding name is not needed at all. Some 8-bit characters are identified by their glyph name and the package chooses an appropriate encoding, example:

```

\documentclass{article}
\usepackage{selinput}
\SelectInputMappings{
  adieresis={ä},
  germandbls={ß},
  Euro={€},
}
\begin{document}
  Umlauts: ÄÖÜäöüß
\end{document}

```

## 1.2 User interface

`\SelectInputEncodingList` {*encoding list*}

`\SelectInputEncodingList` expects a comma separated list of encoding names. Example:

```

\SelectInputEncodingList{utf8,ansinew,mac-roman}

```

The encodings of package `inputenx` are used as default.

`\SelectInputMappings` {*mapping pairs*}

A mapping pair consists of a glyph name and its input character:

```

\SelectInputMappings{
  adieresis={ä},
  germandbls={ß},
  Euro={€},
}

```

The supported glyph names can be found in file `ix-name.def` of project `inputenc` [1]. The names are basically taken from Adobe’s glyphlists [2, 3]. As many pairs are needed as necessary to identify the encoding. Example with insufficient pairs:

```
\SelectInputEncodingSet{latin1,latin9}
\SelectInputMappings{
  adieresis={ä},
  germandbls={ß},
}
Umlauts: ÄÖÜäöüß and Euro: ¤ (wrong)
```

The first encoding `latin1` passes the constraints given by the mapping pairs. However the Euro symbol is not part of the encoding. Thus a mapping pair with the Euro symbol solves the problem. In fact the symbol alone already succeeds in selecting between `latin1` and `latin9`:

```
\SelectInputEncodingSet{latin1,latin9}
\SelectInputMappings{
  Euro={€},
}
Umlauts: ÄÖÜäöüß and Euro: €
```

### 1.3 Options

**warning:** The selected encoding is written by `\PackageInfo` into the `.log` file only. Option `warning` changes it to `\PackageWarning`. Then the selected encoding is shown on the terminal as well.

**ucs:** The encoding file `utf8x` of package `\ucs` requires that the package itself is loaded before. If the package is not loaded, then the option `ucs` will load package `ucs` if the detected encoding is UTF-8 (limited to the preamble, packages cannot be loaded later).

**utf8=...:** The option allows to specify other encoding files for UTF-8 than  $\LaTeX$ ’s `utf8.def`. For example, `utf8=utf-8` will load `utf-8.def` instead.

### 1.4 Encodings

Package `stringenc` [4] is used for testing the encoding. Thus the encoding name must be known by this package. Then the found encoding is loaded by `\inputencoding` by package `inputenc` or `\InputEncoding` if package `inputenc` is loaded.

The supported encodings are present in the encoding list, thus usually the encoding names do not matter. If the list is set by `\SelectInputEncodingList`, then you can use the names that work for package `inputenc` and are known by package `stringenc`, for example: `latin1`, `x-iso-8859-1`. Encoding file names of package `inputenc` are prefixed with `x-`. The prefix can be dropped, if package `inputenc` is loaded.

## 2 Implementation

```
1 (*package)
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{selinput}
4 [2007/09/09 v1.2 Semi-automatic input encoding detection (HO)]%
5 \RequirePackage{inputenc}
6 \RequirePackage{kvsetkeys}[2006/10/19]
7 \RequirePackage{stringenc}[2007/06/16]
8 \RequirePackage{kvoptions}
```

\SelectInputEncodingList

```
9 \newcommand*{\SelectInputEncodingList}{%
10 \let\SIE@EncodingList\@empty
11 \kvsetkeys{SelInputEnc}%
12 }
```

\SelectInputMappings

```
13 \newcommand*{\SelectInputMappings}[1]{%
14 \SIE@LoadNameDefs
15 \let\SIE@StringUnicode\@empty
16 \let\SIE@StringDest\@empty
17 \kvsetkeys{SelInputMap}{#1}%
18 \ifx\SIE@StringUnicode\SIE@StringDest\%
19 \PackageError{selinput}{%
20 No mappings specified%
21 }\@ehc
22 \else
23 \EdefUnescapeHex\SIE@StringUnicode\SIE@StringUnicode
24 \let\SIE@Encoding\@empty
25 \@for\SIE@EncodingTest:=\SIE@EncodingList\do{%
26 \ifx\SIE@Encoding\@empty
27 \StringEncodingConvertTest\SIE@temp\SIE@StringUnicode
28 {utf16be}\SIE@EncodingTest{%
29 \ifx\SIE@temp\SIE@StringDest
30 \let\SIE@Encoding\SIE@EncodingTest
31 \fi
32 }-}%
33 \fi
34 }%
35 \ifx\SIE@Encoding\@empty
36 \StringEncodingConvertTest\SIE@temp\SIE@StringDest
37 {ascii}{utf16be}{%
38 \def\SIE@Encoding{ascii}%
39 \SIE@Info{selinput}{%
40 Matching encoding not found, but input characters%
41 \MessageBreak
42 are 7-bit (possibly editor replacements).%
43 \MessageBreak
44 Hence using ascii encoding%
45 }%
46 }-}%
47 \fi
48 \ifx\SIE@Encoding\@empty
49 \PackageError{selinput}{%
50 Cannot find a matching encoding%
51 }\@ehd
52 \else
53 \ifx\SIE@Encoding\SIE@EncodingUTFviii
54 \SIE@LoadUnicodePackage
55 \ifx\SIE@UseUTFviii\@empty
56 \else
57 \let\SIE@Encoding\SIE@UseUTFviii
58 \fi
59 \fi
60 \begingroup\expandafter\expandafter\expandafter\endgroup
61 \expandafter\ifx\cename InputEncoding\endcsname\relax
62 \inputencoding\SIE@Encoding
63 \else
64 \InputEncoding\SIE@Encoding
65 \fi
66 \SIE@Info{selinput}{Encoding `\'SIE@Encoding' selected}%
67 \fi
```

```

68 \fi
69 }

\SIE@LoadNameDefs
70 \def\SIE@LoadNameDefs{%
71 \begingroup
72 \endlinechar=\m@ne
73 \catcode92=0 % backslash
74 \catcode123=1 % left curly brace/beginning of group
75 \catcode125=2 % right curly brace/end of group
76 \catcode37=14 % percent/comment character
77 \@makeother\[
78 \@makeother\]
79 \@makeother\.
80 \@makeother\%
81 \@makeother\}
82 \@makeother\/
83 \@makeother\-
84 \let\InputexName\SelectInputDefineMapping
85 \InputIfFileExists{ix-name.def}{-}{%
86 \PackageError{selinput}{%
87 Missing `ix-name.def' (part of package `inputex')%
88 }\@ehd
89 }%
90 \global\let\SIE@LoadNameDefs\relax
91 \endgroup
92 }

```

\SelectInputDefineMapping

```

93 \newcommand*{\SelectInputDefineMapping}[1]{%
94 \expandafter\gdef\csname SIE@@#1\endcsname
95 }

96 \kv@set@family@handler{SelInputMap}{%
97 \@onelevel@sanitize\kv@key
98 \ifx\kv@value\relax
99 \PackageError{selinput}{%
100 Missing input character for `'\kv@key'%
101 }\@ehc
102 \else
103 \@onelevel@sanitize\kv@value
104 \ifx\kv@value\@empty
105 \PackageError{selinput}{%
106 Input character got lost?\MessageBreak
107 Missing input character for `'\kv@key'%
108 }\@ehc
109 \else
110 \@ifundefined{SIE@@\kv@key}{%
111 \PackageWarning{selinput}{%
112 Missing definition for `'\kv@key'%
113 }%
114 }{%
115 \edef\SIE@StringDest{%
116 \SIE@StringDest
117 \kv@value
118 }%
119 \edef\SIE@StringUnicode{%
120 \SIE@StringUnicode
121 \csname SIE@@\kv@key\endcsname
122 }%
123 }%
124 \fi
125 \fi

```

```

126 }
127 \kv@set@family@handler{SelInputEnc}{%
128   \@onelevel@sanitize\kv@key
129   \ifx\kv@value\relax
130     \if\SIE@EncodingList\@empty
131       \let\SIE@EncodingList\kv@key
132     \else
133       \edef\SIE@EncodingList{\SIE@EncodingList,\kv@key}%
134     \fi
135   \else
136     \@onelevel@sanitize\kv@value
137     \PackageError{selinput}{%
138       Illegal key value pair (\kv@key=\kv@value)\MessagBreak
139       in encoding list%
140     }\@ehc
141   \fi
142 }

```

\SIE@LoadUnicodePackage

```

143 \def\SIE@LoadUnicodePackage{%
144   \@ifpackageloaded\SIE@UnicodePackage}{%
145     \RequirePackage\SIE@UnicodePackage\relax
146   }%
147   \SIE@PatchUCS
148   \global\let\SIE@LoadUnicodePackage\relax
149 }
150 \let\SIE@show\show
151 \def\SIE@PatchUCS{%
152   \AtBeginDocument{%
153     \expandafter\ifx\csname ver@ucsencs.def\endcsname\relax
154     \else
155       \let\show\SIE@show
156     \fi
157   }%
158 }
159 \SIE@PatchUCS

160 \AtBeginDocument{%
161   \let\SIE@LoadUnicodePackage\relax
162 }

```

\SIE@EncodingUTFviii

```

163 \def\SIE@EncodingUTFviii{utf8}
164 \@onelevel@sanitize\SIE@EncodingUTFviii

```

\SIE@EncodingUTFviiix

```

165 \def\SIE@EncodingUTFviiix{utf8x}
166 \@onelevel@sanitize\SIE@EncodingUTFviiix

167 \let\SIE@UnicodePackage\@empty
168 \let\SIE@UseUTFviii\@empty
169 \let\SIE@Info\PackageInfo

170 \SetupKeyvalOptions{%
171   family=SelInput,%
172   prefix=SelInput@%
173 }
174 \define@key{SelInput}{utf8}{%
175   \def\SIE@UseUTFviii{#1}%
176   \@onelevel@sanitize\SIE@UseUTFviii
177 }
178 \DeclareBoolOption{ucs}
179 \DeclareVoidOption{warning}{%

```

```

180 \let\SIE@Info\PackageWarning
181 }
182 \ProcessKeyvalOptions{SelInput}
183 \ifSelInput@ucs
184 \def\SIE@UnicodePackage{ucs}%
185 \ifx\SIE@UseUTFviii\@empty
186 \let\SIE@UseUTFviii\SIE@EncodingUTFviii
187 \fi
188 \else
189 \ifx\SIE@UseUTFviii\@empty
190 \@ifpackageloaded{ucs}{%
191 \let\SIE@UseUTFviii\SIE@EncodingUTFviii
192 }{%
193 \let\SIE@UseUTFviii\SIE@EncodingUTFviii
194 }%
195 \fi
196 \fi

```

\SIE@EncodingList

```

197 \edef\SIE@EncodingList{%
198 utf8,%
199 x-iso-8859-1,%
200 x-iso-8859-15,%
201 x-cp1252,% ansinew
202 x-mac-roman,%
203 x-iso-8859-2,%
204 x-iso-8859-3,%
205 x-iso-8859-4,%
206 x-iso-8859-5,%
207 x-iso-8859-6,%
208 x-iso-8859-7,%
209 x-iso-8859-8,%
210 x-iso-8859-9,%
211 x-iso-8859-10,%
212 x-iso-8859-11,%
213 x-iso-8859-13,%
214 x-iso-8859-14,%
215 x-iso-8859-15,%
216 x-mac-centeuro,%
217 x-mac-cyrillic,%
218 x-koi8-r,%
219 x-cp1250,%
220 x-cp1251,%
221 x-cp1257,%
222 x-cp437,%
223 x-cp850,%
224 x-cp852,%
225 x-cp855,%
226 x-cp858,%
227 x-cp865,%
228 x-cp866,%
229 x-nextstep,%
230 x-dec-mcs%
231 }%
232 \@onelevel@sanitize\SIE@EncodingList
233 </package>

```

### 3 Test

```

234 <*test>
235 \NeedsTeXFormat{LaTeX2e}

```

```

236 \documentclass{minimal}
237 \usepackage{textcomp}
238 \usepackage{qstest}

239 (*test1 j test2 j test3)
240 \makeatletter
241 \let\BeginDocumentText\@empty
242 \def\TestEncoding#1#2{%
243   \SelectInputMappings{#2}%
244   \Expect*{\SIE@Encoding}{#1}%
245   \Expect*{\inputencodingname}{#1}%
246   \g@addto@macro\BeginDocumentText{%
247     \SelectInputMappings{#2}%
248     \Expect*{\SIE@Encoding}{#1}%
249     \textbf{\SIE@Encoding:} %
250     \kvsetkeys{test}{#2}\par
251   }%
252 }
253 \def\TestKey#1#2{%
254   \define@key{test}{#1}{%
255     \sbox0{##1}%
256     \sbox2{#2}%
257     \Expect*{wd:\the\wd0, ht:\the\ht0, dp:\the\dp0}%
258     *{wd:\the\wd2, ht:\the\ht2, dp:\the\dp2}%
259     [#1=##1] % hash-ok
260   }%
261 }
262 \RequirePackage{keyval}
263 \TestKey{adieresis}{\`a}
264 \TestKey{germandbls}{\ss}
265 \TestKey{Euro}{\texteuro}
266 \makeatother
267 \usepackage[
268   warning,%
269   <test2> utf8=utf-8,
270   <test3> ucs,
271 ]{selinput}
272 (test1 j test3)\inputencoding{ascii}
273 (test2)\inputencoding{utf-8}
274 (test3)\usepackage{ucs}
275 \begin{qstest}{preamble}{}
276   \TestEncoding{x-iso-8859-15}{%
277     adieresis=^^e4,%
278     germandbls=^^df,%
279     Euro=^^a4,%
280   }%
281   \TestEncoding{x-cp1252}{%
282     adieresis=^^e4,%
283     germandbls=^^df,%
284     Euro=^^80,%
285   }%
286 (test1) \TestEncoding{utf8}{%
287 (test2) \TestEncoding{utf-8}{%
288 (test3) \TestEncoding{utf8x}{%
289   adieresis=^^c3^^a4,%
290   germandbls=^^c3^^9f,%
291 (!test2) Euro=^^e2^^82^^ac,
292   }%
293 \end{qstest}
294 (test3)\let\ifUnicodeOptiongraphics\iffalse
295 \begin{document}
296 \begin{qstest}{document}{}
297 (test3)\makeatletter

```



```

298 \BeginDocumentText
299 \end{qstest}
300 </test1 j test2 j test3>
301 (*test4)
302 \usepackage[warning,ucs]{selinput}
303 \SelectInputMappings{%
304     adieresis=^^c3^^a4,%
305     germandbls=^^c3^^9f,%
306     Euro=^^e2^^82^^ac,%
307 }
308 \begin{qstest}{encoding}{}
309 \Expect*{\inputencodingname}{utf8x}%
310 \end{qstest}
311 \begin{document}
312     adieresis=^^c3^^a4, %
313     germandbls=^^c3^^9f, %
314     Euro=^^e2^^82^^ac%
315 </test4>
316 (*test5)
317 \usepackage[warning,ucs]{selinput}
318 \SelectInputMappings{%
319     adieresis={"a},%
320     germandbls={{\ss}},%
321     Euro=\texteuro{},%
322 }
323 \begin{qstest}{encoding}{}
324 \Expect*{\inputencodingname}{ascii}%
325 \end{qstest}
326 \begin{document}
327     adieresis={"a}, %
328     germandbls={{\ss}}, %
329     Euro=\texteuro{}%
330 </test5>
331 \end{document}
332 </test>

```

## 4 Installation

### 4.1 Download

**Package.** This package is available on CTAN<sup>1</sup>:

[CTAN:macros/latex/contrib/oberdiek/selinput.dtx](#) The source file.

[CTAN:macros/latex/contrib/oberdiek/selinput.pdf](#) Documentation.

**Bundle.** All the packages of the bundle ‘oberdiek’ are also available in a TDS compliant ZIP archive. There the packages are already unpacked and the documentation files are generated. The files and directories obey the TDS standard.

[CTAN:install/macros/latex/contrib/oberdiek.tds.zip](#)

*TDS* refers to the standard “A Directory Structure for  $\TeX$  Files” ([CTAN:tds/tds.pdf](#)). Directories with `texmf` in their name are usually organized this way.

### 4.2 Bundle installation

**Unpacking.** Unpack the `oberdiek.tds.zip` in the TDS tree (also known as `texmf` tree) of your choice. Example (linux):

```
unzip oberdiek.tds.zip -d ~/texmf
```

<sup>1</sup>[ftp://ftp.ctan.org/tex-archive/](http://ftp.ctan.org/tex-archive/)

**Script installation.** Check the directory `TDS:scripts/oberdiek/` for scripts that need further installation steps. Package `attachfile2` comes with the Perl script `pdfatfi.pl` that should be installed in such a way that it can be called as `pdfatfi`. Example (linux):

```
chmod +x scripts/oberdiek/pdfatfi.pl
cp scripts/oberdiek/pdfatfi.pl /usr/local/bin/
```

### 4.3 Package installation

**Unpacking.** The `.dtx` file is a self-extracting `docstrip` archive. The files are extracted by running the `.dtx` through plain `TEX`:

```
tex selinput.dtx
```

**TDS.** Now the different files must be moved into the different directories in your installation TDS tree (also known as `texmf` tree):

```
selinput.sty          → tex/latex/oberdiek/selinput.sty
selinput.pdf          → doc/latex/oberdiek/selinput.pdf
test/selinput-test1.tex → doc/latex/oberdiek/test/selinput-test1.tex
test/selinput-test2.tex → doc/latex/oberdiek/test/selinput-test2.tex
test/selinput-test3.tex → doc/latex/oberdiek/test/selinput-test3.tex
test/selinput-test4.tex → doc/latex/oberdiek/test/selinput-test4.tex
test/selinput-test5.tex → doc/latex/oberdiek/test/selinput-test5.tex
selinput.dtx          → source/latex/oberdiek/selinput.dtx
```

If you have a `docstrip.cfg` that configures and enables `docstrip`'s TDS installing feature, then some files can already be in the right place, see the documentation of `docstrip`.

### 4.4 Refresh file name databases

If your `TEX` distribution (te`TEX`, mi`TEX`, ...) relies on file name databases, you must refresh these. For example, te`TEX` users run `texhash` or `mktexlsr`.

### 4.5 Some details for the interested

**Attached source.** The PDF documentation on CTAN also includes the `.dtx` source file. It can be extracted by AcrobatReader 6 or higher. Another option is `pdftk`, e.g. unpack the file into the current directory:

```
pdftk selinput.pdf unpack_files output .
```

**Unpacking with L<sup>A</sup>T<sub>E</sub>X.** The `.dtx` chooses its action depending on the format:

**plain T<sub>E</sub>X:** Run `docstrip` and extract the files.

**L<sup>A</sup>T<sub>E</sub>X:** Generate the documentation.

If you insist on using L<sup>A</sup>T<sub>E</sub>X for `docstrip` (really, `docstrip` does not need L<sup>A</sup>T<sub>E</sub>X), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{selinput.dtx}
```

Do not forget to quote the argument according to the demands of your shell.

**Generating the documentation.** You can use both the `.dtx` or the `.drv` to generate the documentation. The process can be configured by the configuration file `ltxdoc.cfg`. For instance, put this line into this file, if you want to have A4 as paper format:

```
\PassOptionsToClass{a4paper}{article}
```

An example follows how to generate the documentation with pdfL<sup>A</sup>T<sub>E</sub>X:

```
pdflatex selinput.dtx
makeindex -s gind.ist selinput.idx
pdflatex selinput.dtx
makeindex -s gind.ist selinput.idx
pdflatex selinput.dtx
```

## 5 Catalogue

The following XML file can be used as source for the [T<sub>E</sub>X Catalogue](#). The elements `caption` and `description` are imported from the original XML file from the Catalogue. The name of the XML file in the Catalogue is `selinput.xml`.

```
333 (*catalogue)
334 <?xml version='1.0' encoding='us-ascii'?>
335 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
336 <entry datestamp='$Date$' modifier='$Author$' id='selinput'>
337   <name>selinput</name>
338   <caption>Semi-automatic detection of input encoding.</caption>
339   <authorref id='auth:oberdiek' />
340   <copyright owner='Heiko Oberdiek' year='2007' />
341   <license type='lppl1.3' />
342   <version number='1.2' />
343   <description>
344     This package selects the input encoding by specifying pairs
345     of input characters and their glyph names.
346     <p/>
347     The package is part of the <xref refid='oberdiek'>oberdiek</xref>
348     bundle.
349   </description>
350   <documentation details='Package documentation'
351     href='ctan:/macros/latex/contrib/oberdiek/selinput.pdf' />
352   <ctan file='true' path='/macros/latex/contrib/oberdiek/selinput.dtx' />
353   <miktex location='oberdiek' />
354   <texlive location='oberdiek' />
355   <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip' />
356 </entry>
357 </catalogue>
```

## 6 References

- [1] Heiko Oberdiek: *The inputenx package*; 2007-04-11 v1.1; [CTAN:macros/latex/contrib/oberdiek/inputenx.pdf](#).
- [2] Adobe: *Adobe Glyph List*; 2002-09-20 v2.0; <http://partners.adobe.com/public/developer/en/opentype/glyphlist.txt>.
- [3] Adobe: *Adobe Glyph List For New Fonts*; 2005-11-18 v1.5; <http://partners.adobe.com/public/developer/en/opentype/aglfn13.txt>.
- [4] Heiko Oberdiek: *The stringenc package*; 2007-06-16 v1.1; [CTAN:macros/latex/contrib/oberdiek/stringenc.pdf](#).

## 7 History

[2007/06/16 v1.0]

- First version.

[2007/06/20 v1.1]

- Requested date for package stringenc fixed.

[2007/09/09 v1.2]

- Line end fixed.

## 8 Index

Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; plain numbers refer to the code lines where the entry is used.

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