

The `showexpl` package*

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1 Introduction

The documentation of a \LaTeX package is by far more readable if there are examples of the commands' and environments' usage. The best way to do that is to give a comparison of the \LaTeX code and the formatted output. `showexpl` is a package for doing that comparison, it is based on the package `listings` which provides a good typesetted source code with emphasised keywords and so on.

2 Usage

You can use `showexpl` like every other package by putting the line

```
\usepackage{showexpl}
```

in your source code. `showexpl` doesn't know any options by itself, but all options for the underlying packages (`listings` and `graphicx`) will be passed to the respective packages.

`showexpl` provides one command and one environment:

- `\LTxinputExample` and
- `LTxexample`

`\LTxinputExample` The syntax of `\LTxinputExample` is given by

```
\LTxinputExample[⟨key val list⟩]{⟨file⟩}
```

`LTxexample` The syntax of the environment `LTxexample` is given by

```
\begin{LTxexample}[⟨key val list⟩]... \end{LTxexample}
```

The set of options represented by $\langle key\ val\ list \rangle$ is the same for both the command and the environment, the options are described in the following:

attachfile Boolean valued key, default value: false. If set to true the sourcecode will be attached to the .pdf file—presumed that the document is processed by `pdflatex`.

codefile Name of the (temporary) file that contains the code which will be formatted as source code. The default value is `\jobname.tmp`.

*This document corresponds to `showexpl` v0.3n, dated 2016/11/20.

- explpreset** A *<key val list>* which serves for presetting the properties of the formatting of the source code, for values see the documentation of the `listings` package. The default value is
- graphic** Name of a (graphic) file. This file—if present—will be included and displayed instead of the formatted code. The default value is empty.
- hsep** Defines the horizontal distance between the source code and the formatted text.
- justification** Defines the justification of the formatted text: reasonable values are `\raggedleft`, `\raggedright`, `\centering`. The default value is `\raggedright`.
- overhang** A *dimen*-value that defines the amount by which the formatted text and the source code can overlap the print space. The default value is 0pt.
- pos:** Defines the relative position of the formatted text relating to the source code. Allowed values are `t`, `b`, `l`, `r`, `o`, and `i` for top, bottom, left, right, outer, and inner. The last values give sense only for two-sided printing, where there are outer and inner margins of a page. The default value is `l`.
- preset** Any \TeX code executed before the sample code but not visible in the listings area.
- rangeaccept** Boolean valued key, default value is false. If set to true, one can define ranges of lines that will be excerpted from the source code.
- rframe** Defines the form of the frame around the formatted text. With a non-empty value (e.g. “single”) a simple frame will be drawn. In the future more kinds of frames will be supported. The default value is empty (no frame).
- varwidth** Boolean valued key, default value is false. If set to true, the formatted text is set with its “natural” width instead of a fixed width as given by the value of the option `width`.
- vsep** Defines the vertical distance between the source code and the formatted text.
- wide** Boolean valued key, default value is false. If set to true, the source code and the formatted text overlap the print space and the margin area.
- width** A *<dimen>* value that defines the width of the formatted text. The default value depends of the relative positions of the source code and the formatted text.
- scaled** Without a value the formatted text will be scaled to fit the given width of the result area. With a number as value the formatted text will be scaled by this number.

In addition to these options the kind of the result box (default: `\fbox`) can be changed. For example:

```
\renewcommand\ResultBox{\fcolorbox{green}{lightgray}}
\setlength\ResultBoxSep{5mm}
\setlength\ResultBoxRule{2mm}
```

3 Implementation

```

1 \DeclareOption{final}{%
2   \PassOptionsToPackage{\CurrentOption}{graphicx}%
3   \PassOptionsToPackage{\CurrentOption}{listings}%
4 }%
5 \DeclareOption{draft}{%
6   \PassOptionsToPackage{\CurrentOption}{graphicx}%
7   \PassOptionsToPackage{\CurrentOption}{listings}%
8 }%

9 \DeclareOption{attachfiles}{%
10  \AtBeginDocument{\IfFileExists{attachfile.sty}%
11    {\RequirePackage{attachfile}}{\def\SX@attachfile{}}}
12 }%
13 \DeclareOption*{\PassOptionsToPackage{\CurrentOption}{listings}}
14 \ProcessOptions\relax
15 \RequirePackage{listings,calc,ifthen,graphicx,varwidth}

```

We must activate code from package listings for writing files.

```

16 \lst@RequireAspects{writefile}

\SX@defaultWD Parameter #2 is a length or a number. Parameter #1 is a macro. After a call of
\SX@defaultWD this macro contains the value of the length or the value of the
number multiplied by \linewidth.

```

```

17 \newcommand*\SX@defaultWD[2]{%
18   \afterassignment\SX@def@WD\dimen@#2\linewidth\relax{#1}}
19 \newcommand*\SX@def@WD{}
20 \def\SX@def@WD#1\relax#2{\edef#2{\the\dimen@}}

```

Additional keys.

```

21 \lst@Key{pos}\relax{\def\SX@pos{#1}}
22 \lst@Key{width}\relax{\def\SX@width{#1}}
23 \lst@Key{hsep}\relax{@tempdima=#1\relax\edef\SX@hsep{\the\tempdima}}
24 \lst@Key{vsep}\relax{@tempdima=#1\relax\edef\SX@vsep{\the\tempdima}}
25 \lst@Key{overhang}\relax{\def\SX@overhang{#1}}
26 \lst@Key{wide}f[t]{\lstKV@SetIf{#1}\if@SX@wide}
27 \lst@Key{rframe}\relax{\def\SX@rframe{#1}}
28 \lst@Key{preset}\relax{\def\SX@preset{#1}}
29 \newcommand*\SX@scaled{}
30 \lst@Key{scaled}{?}[!]{\def\SX@scaled{#1}}

31 \lst@Key{explpreset}\relax{\def\SX@explpreset{#1}}
32 \lst@Key{codefile}\relax{\def\SX@codefile{#1}}
33 \newif\if@SX@rangeaccept \SX@rangeacceptfalse
34 \newif\if@SX@varwidth \SX@varwidthfalse
35 \newif\if@SX@wide \SX@widefalse
36 \newif\if@SX@attachfile \SX@attachfilefalse

37 \lst@Key{rangeaccept}f[t]{\lstKV@SetIf{#1}\if@SX@rangeaccept}

38 \lst@Key{varwidth}f[t]{\lstKV@SetIf{#1}\if@SX@varwidth}
39 \lst@Key{justification}\relax{\def\SX@justification{#1}}
40 \lst@Key{attachfile}f[t]{\lstKV@SetIf{#1}\if@SX@attachfile}
41 \newcommand*\SX@graphicname{}%
42 \newcommand*\SX@graphicparam{}%

```

```

43 \lst@Key{graphic}{ }[] {%
44   \lstKV@OptArg[width=\linewidth]{#1}{%
45     \edef\SX@graphicparam{##1}\edef\SX@graphicname{##2}%
46   }%
47 }%
48 \newbox\SX@ResBox
49 \newcommand\ResultBox{} \let\ResultBox=\fbox
50 \newdimen\ResultBoxSep \ResultBoxSep=\fboxsep
51 \newdimen\ResultBoxRule \ResultBoxRule=\fboxrule
52 \newcommand*\SX@pos{}
53 \newcommand*\SX@width{}
54 \newcommand*\SX@hsep{}
55 \newcommand*\SX@vsep{}
56 \newcommand*\SX@overhang{}
57 \newcommand*\SX@rframe{}
58 \newcommand\SX@preset{}
59 \newcommand*\SX@explpreset{}

60 \newcommand*\SX@@explpreset{}
61 \newcommand*\SX@codefile{}\edef\SX@codefile{\jobname.tmp}
62 \newcommand*\SX@justification{\raggedright}

```

\SX@@preset Contains some redefinitions of L^AT_EX macros and environments to do nothing. **\SX@@preset** will be called just before typesetting the result of the example code. More can be added with the user key “**preset=...**”.

```

63 \newcommand*\SX@@preset{%
64   \renewcommand\documentclass[2] [] {\SX@eat@version}%
65   \renewcommand\usepackage[2] [] {\SX@eat@version}%
66   \renewenvironment{document}{}{}%
67   \renewenvironment{figure}[1] [] {\def\@capttype{figure}}{}%
68   \renewenvironment{table}[1] [] {\def\@capttype{table}}{}%
69   \renewcommand\cite[1] [] {}%
70   \let\tableofcontents\relax \let\listoffigures\relax
71   \let\listoftables\relax \let\printindex\relax
72   \let\listfiles\relax \let\nofiles\relax
73   \let\index\@gobble \let\label\@gobble
74   \let\bibliography\@gobble
75   \let\pagestyle\@gobble \let\thispagestyle\@gobble
76   %%\let\immediate\relax \let\write\@gobbletwo
77   %%\let\closeout\@gobble \let\@@input\@gobble
78   \renewcommand\marginpar[2] [] {}%
79   \renewcommand\footnote[2] [] {}%
80   \let\@footnotetext\@gobble
81   %%\abovedisplayskip=\z@
82   %%\abovedisplayshortskip=\z@
83 }
84 \newcommand*\SX@eat@version[1] [] {}

```

\isSX@odd Parameter #1 is executed on odd pages, parameter #2 on even pages.

```

85 \newif\ifSX@wasodd
86 \if@twoside
87   \newcommand*\isSX@odd[2] {%
88     \ifthenelse{\isodd{\pageref{\SX@IDENT}}}{}%
89     {\SX@wasoddtrue #1}{\SX@wasoddfalse #2}}

```

```

90 \else
91   \newcommand*{\isSX@odd}[2]{#1}\SX@wasodddtrue
92 \fi

The call of \isSX@odd sets also \ifSX@wasodd to true or false. If it's clear that
no page break occurs, \ifSX@wasodd can be used.

93 \newcounter{ltxexample}
94 \newcommand*{\SX@IDENT}{\SX@number\value{ltxexample}}

```

\SX@attachfile

```

95 \newcommand*\SX@attachfile{%
96   \if@SX@attachfile
97     \attachfile[mimetype=text/plain,subject={example \theltxexample}]%
98     {\SX@codefile}{}%
99   \fi
100 }

```

\SX@put@t/b/l/r/o/i Six macros for positioning #2 (result) and #3 (code). The result can be above, below, left or right of the code area or on the outer or innner side. Parameter #1 is the width of the result.

```

101 \newcommand*\SX@put@t[3]{%
102   \SX@ResultArea{\linewidth}{#2}\endgraf\pagebreak[2]%
103   \setlength\@tempdima{\SX@vsep}\vskip\@tempdima
104   \SX@CodeArea{\linewidth}{#3}%
105 }
106 \newcommand*\SX@put@b[3]{%
107   \SX@CodeArea{\linewidth}{#3}\endgraf\pagebreak[2]%
108   \setlength\@tempdima{\SX@vsep}\vskip\@tempdima
109   \SX@ResultArea{\linewidth}{#2}%
110 }
111 \newcommand*\SX@put@l[3]{%
112   \setlength\@tempdimc{\linewidth-#1-\SX@hsep}%
113   \SX@ResultArea{#1}{#2}\hfill\SX@CodeArea{\@tempdimc}{#3}%
114 }
115 \newcommand*\SX@put@r[3]{%
116   \setlength\@tempdimc{\linewidth-#1-\SX@hsep}%
117   \SX@CodeArea{\@tempdimc}{#3}\hfill\SX@ResultArea{#1}{#2}%
118 }
119 \newcommand*\SX@put@o[3]{%
120   \@nameuse{SX@put@\ifSX@wasodd r\else l\fi}{#1}{#2}{#3}%
121 }
122 \newcommand*\SX@put@i[3]{%
123   \@nameuse{SX@put@\ifSX@wasodd l\else r\fi}{#1}{#2}{#3}%
124 }
125 \newcommand\SX@ResultArea[2]{%
126   \SX@justification\setlength\@tempdima{#1}%
127   %\minipage\@tempdima#2\endminipage
128   \parbox\@tempdima{#2}%
129 }
130 \newcommand\SX@CodeArea[2]{%
131   \setlength\@tempdima{#1}%
132   \sbox\@tempboxa{\parbox\@tempdima{#2}}%
133   \@tempdima=\dp\@tempboxa\usebox\@tempboxa
134   \rlap{\raisebox{-\@tempdima}[0pt][0pt]{\SX@attachfile}}%

```

```

135 }
136 \newcommand*\SX@KillAboveCaptionskip{%
137   \ifx\lst@caption\@empty\else
138     \lst@ifsubstring t\lst@captionpos
139       {\vskip-\abovecaptionskip}{}%
140   \fi
141 }
142 \newcommand*\SX@KillBelowCaptionskip{%
143   \ifx\lst@caption\@empty\else
144     \lst@ifsubstring b\lst@captionpos
145       {\vskip-\belowcaptionskip}{}%
146   \fi
147 }

```

LTExample

```

148 \lstnewenvironment{LTExample}[1][{}]{%
149   \@temptokena{#1}%
150   \beginngroup
  For "codefile=..."/"graphic=..." if \theltxexample or \thelstlisting is part of
  the filename.
151   \advance\c@ltxexample\@ne \advance\c@lstlisting\@ne
152   \expandafter\lstset\expandafter{\SX@explpreset,#1}%
153   \edef\x{\endgroup
154     \def\noexpand\SX@codefile{\SX@codefile}%
155     \def\noexpand\SX@graphicname{\SX@graphicname}%
156     \def\noexpand\SX@graphicparam{\SX@graphicparam}}%
157   \x
158   \xdef\SX@@explpreset{\the\@temptokena,codefile=\SX@codefile,
159     graphic={[\SX@graphicparam]{\SX@graphicname}}}%
160   \beginngroup
161   \let\UTFviii@defined=\@gobble
162   \let\@inpenc@undefined=\@gobble
163   \lst@BeginWriteFile{\SX@codefile}%
164 }%
165 {%
166   \lst@EndWriteFile\endgroup
167   \SX@put@code@result
168 }

```

\SX@put@code@result

```

169 \newcommand*\SX@put@code@result{%
170   \beginngroup
171   \expandafter\lstset\expandafter{\SX@explpreset}%
172   \let\lst@float=\relax\let\SX@float=\relax
  Without the following call \lst@beginfloat is undefined.
173   \expandafter\lstset\expandafter{\SX@@explpreset}%
174   \ifx\lst@float\relax\else
  \lst@float must be \relax because the whole "example" should float but not
  the listings part in addition.
175   \let\SX@float=\lst@float\let\lst@float=\relax

```

```

176     \g@addto@macro\SX@@explpreset{,float=false}%
177     \edef\@tempa{\noexpand\lst@beginfloat{lstlisting}[\SX@float]]}%
178     \expandafter\@tempa
179     \fi
180     \ifx\lst@caption\@empty
181         \lstset{lolol=true}%
182     \fi
183     \ifSX@wide\def\SX@overhang{\marginparwidth+\marginparsep}\fi
184     \trivlist\item\relax
185     \stepcounter{ltexample}\label{\SX@IDENT}%

```

Make \SX@width a real dimension if the unit is missing.

```

186     \SX@defaultWD\SX@width{\SX@width}%

```

Set the default width if necessary.

```

187     \ifdim\SX@width<\z@
188         \@tempswtrue
189         \def\@tempa{t}%
190         \ifx\@tempa\SX@pos\@tempswfalse\fi
191         \def\@tempa{b}%
192         \ifx\@tempa\SX@pos\@tempswfalse\fi
193         \setlength\@tempdima{\linewidth+\SX@overhang}%
194         \if@tempswa\@tempdima=.5\@tempdima\fi%
195         \edef\SX@width{\the\@tempdima}%
196     \fi

```

Correct \SX@width if a frame is requested.

```

197     \ifx\SX@rframe\@empty
198         \long\def\SX@frame##1{##1}%
199     \else
200         \let\SX@frame\ResultBox
201         \setlength\@tempdima{\SX@width-2\ResultBoxSep-2\ResultBoxRule}%
202         \edef\SX@width{\the\@tempdima}%
203     \fi
204     \isSX@odd{\def\@tempa{l}}{\def\@tempa{r}}%
205     \makebox[\linewidth][\@tempa]{%
206         \parbox{\linewidth+\SX@overhang}{%

```

\SX@codefile (\jobname.tmp) is not necessary for the filelist.

```

207         \let\@addtofilelist\@gobble
208         \let\lst@ifdisplaystyle=\iftrue
209         \SX@KillAboveCaptionskip\lst@MakeCaption{t}%
210         \let\lst@belowskip=\z@

```

Use the “natural” width of the result code if “varwidth” is true. .

```

211         \let\SX@MakeCaption\lst@MakeCaption
212         \let\lst@MakeCaption\@gobble{}

```

```

213         \setbox\SX@ResBox\hbox{%
214             \fboxsep=\ResultBoxSep
215             \fboxrule=\ResultBoxRule
216             \SX@frame{%
217                 \@nameuse{\ifSX@varwidth varwidth\else minipage\fi}%
218                 \SX@width\relax
219                 \begingroup
220                 \SX@resultInput

```

```

221         \endgroup
222         \@nameuse{end\if@SX@varwidth varwidth\else minipage\fi}}}%
223     \edef\SX@width{\the\wd\SX@ResBox}%
224     \@ifundefined{SX@put@SX@pos}%
225     {\@latex@error{Parameter ‘\SX@pos’ undefined}\@ehd}%
226     {\@nameuse{SX@put@SX@pos}%
227     {\SX@width}{\box\SX@ResBox}{\SX@codeInput}}}%
228     \let\lst@MakeCaption\SX@MakeCaption
229     \lst@MakeCaption{b}\SX@KillBelowCaptionskip
230 }%
231 }%
232 \endtrivlist
233 \ifx\SX@float\relax\else\expandafter\lst@endfloat\fi
234 \gdef\SX@@explpreset{}%
235 \endgroup
236 }

237 \newcommand\SX@SkipToFirst{%
238 \ifeof\@inputcheck\else
239 \ifnum \lst@lineno=\lst@firstline\else
240 \readline\@inputcheck to\SX@tempa
241 \typeout{IGNORE (\the\lst@lineno)}%
242 \global\advance\lst@lineno\@ne
243 \SX@SkipToFirst
244 \fi
245 \fi
246 }

247 \newcommand\SX@ProcessResult{%
248 \ifeof\@inputcheck
249 \let\SX@tempb\relax
250 \else
251 \let\SX@tempb\SX@ProcessResult
252 \ifnum \lst@lineno>\lst@lastline\relax
253 \ifx\lst@linrange\@empty
254 \let\SX@tempb\relax
255 \else
256 \lst@GetLineInterval
257 \SX@SkipToFirst
258 \fi
259 \else
260 \readline\@inputcheck to\SX@tempa
261 \typeout{READ (\the\lst@lineno)}%
262 \expandafter\g@addto@macro
263 \expandafter\SX@lines\expandafter{\SX@tempa^^J}%
264 \global\advance\lst@lineno\@ne
265 \fi
266 \fi
267 \SX@tempb
268 }

\SX@input
269 \newcommand\SX@input[1]{%
270 \beginingroup
271 \IfFileExists{#1}{}%

```

```

272  {%
273    \filename@parse{#1}%
274    \ifx\filename@ext\relax \def\filename@ext{tex}\fi
275    \@latexerr{File
276      '\filename@area\filename@base.\filename@ext' not found.^^J^^J}\@ehd%
277  }%
278  \openin\@inputcheck#1
279  \lsthk@PreSet\let\lst@linrange\@empty\global\lst@lineno\@ne
280  \expandafter\lstset\expandafter{\SX@@explpreset}%
281  \ifx\lst@linrange\@empty
282    \edef\lst@linrange{\lst@firstline}-{\lst@lastline},}%
283  \fi
284  \lst@GetLineInterval
285  \SX@Info
286  \newlinechar='^^J\relax
287  \SX@SkipToFirst\let\SX@lines\@empty
288  \SX@ProcessResult
289  \closein\@inputcheck
290  \scantokens\expandafter{\SX@lines}%
291  \endgroup
292 }

293 \newcommand*\SX@Info{%
294   \typeout{-----}%
295   \typeout{pos=\SX@pos}%
296   \typeout{width=\SX@width}%
297   \typeout{hsep=\SX@hsep}%
298   \typeout{vsep=\SX@vsep}%
299   \typeout{overhang=\SX@overhang}%
300   \typeout{rframe=\SX@rframe}%
301   \typeout{codefile=\SX@codefile}%
302   \ifundefined{lst@firstline}{}%
303     {\typeout{\string\lst@firstline=\lst@firstline}}%
304   \ifundefined{lst@lastline}{}%
305     {\typeout{\string\lst@lastline=\lst@lastline}}%
306   \ifundefined{lst@linrange}{}%
307     {\typeout{\string\lst@linrange=\lst@linrange}}%
308   \typeout{\string\if@SX@wide=\if@SX@wide TRUE\else FALSE\fi}%
309   \typeout{\string\if@SX@rangeaccept=\if@SX@rangeaccept TRUE\else FALSE\fi}%
310   \typeout{\string\if@SX@varwidth=\if@SX@varwidth TRUE\else FALSE\fi}%
311   \typeout{graphicfile=\SX@graphicname, graphicparameter=[\SX@graphicparam]}%
312   \typeout{-----}%
313 }
314 \providecommand*\MakePercentIgnore{\catcode'\%9\relax}
315 \providecommand*\MakePercentComment{\catcode'\%14\relax}

```

\SX@resultInput

```

316 \newcommand*\SX@resultInput{%
317   \ifx\SX@graphicname\@empty
318     \begingroup
319       \MakePercentComment\makeatother\catcode'\%M=5\relax
320       \SX@@preset\SX@preset
321       \if@SX@rangeaccept
322         \let\SX@tempa=\SX@input

```

```

323     \else
324     \let\SX@tempa=\input
325     \fi
326     \if\SX@scaled ?%
327     \let\SX@tempb=\@firstofone
328     \else
329     \if\SX@scaled !%
330     \def\SX@tempb##1{\resizebox{\SX@width}{!}{##1}}%
331     \else
332     \def\SX@tempb##1{\scalebox{\SX@scaled}{##1}}%
333     \fi
334     \fi
335     \SX@tempb{\SX@tempa{\SX@codefile}}\par
336 \endgroup
337 \else
338 \expandafter\includegraphics\expandafter[\SX@graphicparam]%
339 {\SX@graphicname}%
340 \fi
341 }

```

`\SX@codeInput`

```

342 \newcommand*\SX@codeInput{%
    Without a caption entry the command \lstinputlisting adds the filename to
    the “list of listings” (lol). This should be avoided.
343 \begingroup
    The default parameters for all examples.
344 \expandafter\lstset\expandafter{\SX@explpreset}%
    If “numbers=none” then margin dimensions should be zero.
345 \expandafter\lstset\expandafter{\SX@@explpreset}%
346 \ifx\lst@PlaceNumber\@empty
347 \g@addto@macro\SX@@explpreset{,xleftmargin=0pt,xrightmargin=0pt}%
348 \fi
349 \SX@Info
350 \expandafter\lstinputlisting\expandafter%
351 [\SX@@explpreset,nolol=true,caption={}]{\SX@codefile}%
352 \endgroup
353 }%

354 \newcommand*\LTXinputExample[2][{}]{%
355 \g@addto@macro\SX@@explpreset{#1,codefile=#2}%
356 \SX@put@code@result}%

    All the default values.
357 \lstset{explpreset={numbers=left,numberstyle=\tiny,numbersep=.3em,
    Negative width means defaults.
358 xleftmargin=1em,columns=flexible,language=[LaTeX]TEX},pos=1,width=-99pt,
359 overhang=0pt,hsep=\columnsep,vsep=\bigskipamount,rframe=single}

.

360 \AtBeginDocument{%
361 \def\theHlstnumber{\thelstlisting.\arabic{lstnumber}.\lst@neglisting}%
362 }

```

Changing the defaults possible in `showexpl.cfg`.

363 `\InputIfFileExists{showexpl.cfg}{-}{-}`

Change History

v0.1a	General: “hpos” and “vpos” added, “pos” removed (RN). . . 3 Initial version 1	“varwidth” package used (RN). . . 6
v0.1b	<code>\SX@put@t/b/l/r/o/i</code> : Positioning the captions more independend of the result and code area (RN). 5	v0.2b General: Check if <code>\SX@put@?</code> is defined (RN). 6
v0.1c	<code>\SX@put@t/b/l/r/o/i</code> : Commands <code>\SX@KillAboveCaptionskip</code> and <code>\SX@KillBelowCaptionskip</code> added (RN). 5	v0.3a <code>\SX@attachfile</code> : Attach file functionality (with pdfTeX) added (RN). 5 General: “attachfile” added (RN). . . 3
v0.1f	General: “lstpreset” added. (RN). . . 3	v0.3b <code>\SX@resultInput</code> : Input of result code now inside a group; <code>\makeatother</code> added (RN). . . . 9
v0.1h	General: “codefile” added. (RN). . . 3 “lstpreset” renamed to “explpreset” (RN). 3 New macro <code>\LTXinputExample</code> (RN). 10 Renamed from “example” to “LTXexample” (RN). 6	v0.3c <code>\SX@resultInput</code> : Wrong catcode for newline char corrected (RN). 9
v0.1i	General: Better caption positioning and correct distance between the parts (RN). 6	v0.3d <code>\SX@resultInput</code> : Missing <code>\par</code> added (RN). 9
v0.1j	<code>\SX@input</code> : For ranges of lines (RN). 8 General: “rangeaccept” added (RN). 3	v0.3e <code>\SX@@preset</code> : More redefinitions added (RN). 4
v0.1k	<code>\SX@put@t/b/l/r/o/i</code> : Change [a]bove to [t]op (RN). 5 General: Some bug corrections (RN). 3	v0.3g General: <code>\SX@ProcessResult</code> is now working correctly using <code>\readline</code> and <code>\scantokens</code> . Thanks to Ulrich Diez for help (RN). 8 Missing <code>\newcommand</code> for <code>\SX@@explpreset</code> added (RN). . . 4
v0.1l	General: “graphic” added (RN). . . 3	v0.3h General: New Option ‘attachfiles’ (RN). 3
v0.1m	General: Problem related to <code>\label/\ref</code> solved (RN). . . . 6	v0.3j <code>\SX@put@code@result</code> : Setting <code>\lst@MakeCaption</code> to was a bad idea for hyperlinks. Group added to varwidth environment. (Suggestions by Ulrike Fischer.). 7
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