

# The `accsupp` package

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2018/03/28 v0.5

## Abstract

Since PDF 1.5 portions of a page can be marked for better accessibility support. For example, replacement texts or expansions of abbreviations can be provided. Package `accsupp` starts with providing a minimal low-level interface for programmers. Status is experimental.

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\*Please report any issues at <https://github.com/ho-tex/oberdiek/issues>

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# 1 Documentation

## 1.1 Macros

Section “10.8 Accessibility Support” of the PDF reference [1] lists some features that can be added by operators for marked content.

`\BeginAccSupp {⟨options⟩}`

It puts the operator BDC in the page stream:

```
/Span
<<...>>    % property dictionary
BDC
```

The contents of the dictionary is controlled by ⟨options⟩. See sections 1.1.1 and 1.1.2.

`\EndAccSupp {⟨options⟩}`

It puts the operator EMC in the page stream. The only option is pdfliteral, see section 1.3.1.

**Note:** The caller is responsible for the placement of `\BeginAccSupp` and `\EndAccSupp` pairs. Especially page breaks are not allowed in between.

### 1.1.1 Feature options

The PDF reference [1] describes and explains the different features. The names of the feature options are the same as the key names for the property dictionary for operator BDC, see `\BeginAccSupp`.

**ActualText:** Provides a replacement text, see examples in section 2.

**Alt:** Provides an alternate description.

**E:** Provides the expansion of an abbreviation or an acronym.

**Lang:** Specifies the language.

### 1.1.2 Input methods

Except for `Lang` option `method` controls how the argument for `ActualText`, `Alt`, and `E` are interpreted.

**method=plain:** The string is only expanded and written without further treatment. Special characters are not protected, thus this method may result in an invalid PDF file.

**method=escape:** The string is expanded and special characters are escaped. The result is a valid PDF string.

**method=hex:** The string is given in hexadecimal notation. Section 2.1 shows an example.

**method=pdfstringdef:** If package `hyperref` is loaded, then its `\pdfstringdef` is used. This method is slow, but useful if the string contains arbitrary  $\TeX$  code.

**unicode:** This option is needed, if the string is given as Unicode string (16 bit). Internally it adds the string prefix for Unicode. In case of `method=pdfstringdef` it passes the option to `\hypersetup`.

## 1.2 Workaround, option space

PDF specification says in “10.8.3 Replacement Text”

Just as alternative descriptions can be provided for images and other items that do not translate naturally into text (...), replacement text can be specified for content that does translate into text but that is represented in a nonstandard way. These nonstandard representations might include, for example, glyphs for ligatures or custom characters, or inline graphics corresponding to letters in an illuminated manuscript or to dropped capitals.

However, the `ActualText` is ignored in Acrobat Reader (until version 9 at least), if the content does not contain glyphs. Option `space` adds such an invisible glyph, a space character. The font name can be configured by option `spacefont`, the default font is `phvr8r`. The character slot is given by option `spacechar`, default is 32, the usual position of the space character.

These options can also be given as package options or in macro `\AccSuppSetup` that takes a key value list as argument. Usually only option `space` is necessary, if the contents does not contain glyphs otherwise. Option `space` is enabled by `space` or `space=true` and disabled by `space=false`. It is disabled as default. The option is evaluated by `\BeginAccSupp` and ignored by `\EndAccSupp`.

Note: Even with option `space` I get sometimes wrong texts when cut & paste from AR7/Linux or AR8/Linux, e.g.

Hello → Helo, Helol, Hell, ...  
Hello World → Helo WorldW, Helo World, ...

I do not know what Acrobat Reader is doing here, thus feedback and insights are welcome.

## 1.3 Driver options

Driver options are package options only. The special  $\TeX$  compilers `pdf $\TeX$` , `Lua $\TeX$`  and `X $\TeX$`  are detected automatically. The default for unrecognized drivers can be set by defining `\ActualTextDriverDefault`. This can be done in the configuration file `accsupp.cfg`.

### 1.3.1 Option pdf<sub>tex</sub>

Package option pdf<sub>tex</sub> is used for pdf<sub>T</sub><sub>E</sub>X in PDF mode. Additionally `\BeginAccSupp` and `\EndAccSupp` understand option pdf<sub>l</sub>iter<sub>al</sub>. It controls the modifier keyword for `\pdfliteral`:

```
pdfliteral=direct ⇒ \pdfliteral direct{...}
```

### 1.3.2 Option lua<sub>tex</sub>

Package option lua<sub>tex</sub> is used for Lua<sub>T</sub><sub>E</sub>X in PDF mode. Additionally `\BeginAccSupp` and `\EndAccSupp` understand option pdf<sub>l</sub>iter<sub>al</sub>. It controls the modifier keyword for `\pdfextension literal`:

```
pdfliteral=direct ⇒ \pdfextension literal direct{...}
```

### 1.3.3 Option dvip<sub>dfm</sub>

Package option dvip<sub>dfm</sub> and its aliases dvip<sub>dfm</sub>x xet<sub>e</sub>x are used for drivers that support dvip<sub>dfm</sub> specials.

### 1.3.4 Option dvips

Package option dvips and its alias dvips<sub>one</sub> write pdf<sub>mark</sub> specials in the output. Unhappily these pdf<sub>mark</sub> operators are ignored by `ghostscript` (latest tested version is 8.54). Perhaps they are recognized by commercial distiller applications.

### 1.3.5 Turning off page stream compression

For debugging it is useful to have uncompressed page stream objects. This can be done afterwards via `pdftk`:

```
pdftk file.pdf output file-uncompressed.pdf uncompress
```

Or the PDF file is generated uncompressed:

```
pdfTEX: \pdfcompresslevel=0
```

```
dvipdfm: dvipdfm -z0 ...
```

```
dvipdfmx: dvipdfmx -z0 ...
```

```
ghostscript/ps2pdf: ps2pdf -dCompressPages=false input.ps output.pdf
```

## 2 Example

### 2.1 Example `\notparallel`

```
1 \(*example1)
2 %<<END
3 \documentclass{article}
4 \usepackage{accsupp}[2007/11/14]
5 \usepackage{centernot}
6 % U+2226 NOT PARALLEL
7 % \mathrel{...} prevents page break in between
8 \newcommand*{\notparallel}{%
9   \ensuremath{%
10     \mathrel{%
```

```

11     \BeginAccSupp{method=hex,unicode,ActualText=2226}%
12     \centernot{\parallel}%
13     \EndAccSupp{}%
14 }%
15 }%
16 }
17 \begin{document}
18 \begin{equation}
19 A\notparallel B
20 \end{equation}
21 \end{document}
22 %END
23 </example1>

```

## 2.2 Example with pdfstringdef

```

24 <*example2>
25 %<<END
26 \documentclass{article}
27 \usepackage[unicode]{hyperref}
28 \usepackage{accsupp}[2007/11/14]
29 \begin{document}
30   \begin{equation}
31     \BeginAccSupp{
32       method=pdfstringdef,
33       unicode,
34       ActualText={%
35         a\texttt{two}superior +b\texttt{two}superior
36         =c\texttt{two}superior
37       }
38     }
39     a^2 + b^2 = c^2
40     \EndAccSupp{}
41   \end{equation}
42 \end{document}
43 %END
44 </example2>

```

## 3 Implementation

### 3.1 Package

```

45 <*package>
46 \begingroup\catcode61\catcode48\catcode32=10\relax%
47 \catcode13=5 % ^M
48 \endlinechar=13 %
49 \catcode123=1 % {
50 \catcode125=2 % }
51 \catcode64=11 % @
52 \def\x{\endgroup
53   \expandafter\edef\csname ACCSUPP@AtEnd\endcsname{%
54     \endlinechar=\the\endlinechar\relax
55     \catcode13=\the\catcode13\relax
56     \catcode32=\the\catcode32\relax
57     \catcode35=\the\catcode35\relax
58     \catcode61=\the\catcode61\relax
59     \catcode64=\the\catcode64\relax
60     \catcode123=\the\catcode123\relax

```

```

61     \catcode125=\the\catcode125\relax
62   }%
63 }%
64 \x\catcode61\catcode48\catcode32=10\relax%
65 \catcode13=5 % ^^M
66 \endlinechar=13 %
67 \catcode35=6 % #
68 \catcode64=11 % @
69 \catcode123=1 % {
70 \catcode125=2 % }
71 \def\TMP@EnsureCode#1#2{%
72   \edef\ACCSUPP@AtEnd{%
73     \ACCSUPP@AtEnd
74     \catcode#1=\the\catcode#1\relax
75   }%
76   \catcode#1=#2\relax
77 }
78 \TMP@EnsureCode{10}{12}% ^^J
79 \TMP@EnsureCode{33}{12}% !
80 \TMP@EnsureCode{39}{12}% '
81 \TMP@EnsureCode{40}{12}% (
82 \TMP@EnsureCode{41}{12}% )
83 \TMP@EnsureCode{42}{12}% *
84 \TMP@EnsureCode{44}{12}% ,
85 \TMP@EnsureCode{45}{12}% -
86 \TMP@EnsureCode{46}{12}% .
87 \TMP@EnsureCode{47}{12}% /
88 \TMP@EnsureCode{58}{12}% :
89 \TMP@EnsureCode{60}{12}% <
90 \TMP@EnsureCode{62}{12}% >
91 \TMP@EnsureCode{94}{7}% ^ (superscript)
92 \TMP@EnsureCode{96}{12}% '
93 \TMP@EnsureCode{254}{12}% ^^fe
94 \TMP@EnsureCode{255}{12}% ^^ff
95 \edef\ACCSUPP@AtEnd{\ACCSUPP@AtEnd\noexpand\endinput}

Package identification.
96 \NeedsTeXFormat{LaTeX2e}
97 \ProvidesPackage{accsupp}%
98   [2018/03/28 v0.5 Accessibility support by marked content (HO)]
99 \RequirePackage{pdfescape}[2007/02/25]
100 \RequirePackage{ifpdf}
101 \RequirePackage{ifxetex}
102 \RequirePackage{kvoptions}

103 \SetupKeyvalOptions{%
104   family=ACCSUPP,%
105   prefix=ACCSUPP%
106 }

```

### 3.2 Space setup

```

107 \DeclareBoolOption{space}
108 \DeclareStringOption[phvr8r]{spacefont}
109 \DeclareStringOption[32]{spacechar}

```

### 3.3 Driver detection and setup

Driver declarations.

```

110 \def\ACCSUPP@DefineDriverKey{%

```

```

111 \@dblarg\ACCSUPP@@DefineDriverKey
112 }
113 \def\ACCSUPP@@DefineDriverKey[#1]#2{%
114 \define@key{ACCSUPP}{#2}[]{%
115 \def\ACCSUPP@driver{#1}%
116 }%
117 \g@addto@macro\ACCSUPP@DisableOptions{%
118 \DisableKeyvalOption{ACCSUPP}{#2}%
119 }%
120 }
121 \let\ACCSUPP@DisableOptions\@empty
122 \ACCSUPP@DefineDriverKey{pdftex}
123 \ACCSUPP@DefineDriverKey{luatex}
124 \ACCSUPP@DefineDriverKey{dvips}
125 \ACCSUPP@DefineDriverKey[dvips]{dvipsone}
126 \ACCSUPP@DefineDriverKey{dvipdfm}
127 \ACCSUPP@DefineDriverKey[dvipdfm]{dvipdfmx}
128 \ACCSUPP@DefineDriverKey[dvipdfm]{xetex}
129 \let\ACCSUPP@driver\relax
130 \InputIfFileExists{accsupp.cfg}{-}{-}
131 \providecommand*{\ActualTextDriverDefault}{dvips}
132 \ifpdf
133 \ifx\pdfextension\@undefined
134 \def\ACCSUPP@driver{pdftex}%
135 \else
136 \def\ACCSUPP@driver{luatex}%
137 \fi
138 \else
139 \ifxetex
140 \def\ACCSUPP@driver{dvipdfm}%
141 \else
142 \ifx\ACCSUPP@driver\relax
143 \let\ACCSUPP@driver\ActualTextDriverDefault
144 \fi
145 \fi
146 \fi

```

### Process options.

```

147 \ProcessKeyvalOptions*
148 \ACCSUPP@DisableOptions

```

### Driver validation and loading.

```

149 \def\ACCSUPP@temp{pdftex}%
150 \ifpdf
151 \ifx\pdfextension\@undefined\else
152 \def\ACCSUPP@temp{luatex}%
153 \fi
154 \ifx\ACCSUPP@temp\ACCSUPP@driver
155 \else
156 \PackageWarningNoLine{accsupp}{%
157 Wrong driver '\ACCSUPP@driver', using 'pdftex' instead%
158 }%
159 ed as
160 \let\ACCSUPP@driver\ACCSUPP@temp
161 \fi
162 \else
163 \ifx\ACCSUPP@temp\ACCSUPP@driver

```

```

164 \PackageError{accsupp}{%
165     Wrong driver, pdfTeX is not running in PDF mode.\MessageBreak
166     Package loading is aborted%
167 } \@ehc
168 \expandafter\expandafter\expandafter\ACCSUPP@AtEnd
169 \fi
170 \def\ACCSUPP@temp{dvipdfm}%
171 \ifxetex
172     \ifx\ACCSUPP@temp\ACCSUPP@driver
173     \else
174         \PackageWarningNoLine{accsupp}{%
175             Wrong driver '\ACCSUPP@driver',\MessageBreak
176             using 'dvipdfm' for XeTeX instead%
177         }%
178         \let\ACCSUPP@driver\ACCSUPP@temp
179     \fi
180 \fi
181 \fi%
182 \ifx\ACCSUPP@driver\relax
183     \PackageError{accsupp}{%
184         Missing driver option.\MessageBreak
185         Package loading is aborted%
186     } \@ehc
187     \expandafter\ACCSUPP@AtEnd
188 \fi%
189 \InputIfFileExists{accsupp-\ACCSUPP@driver.def}{}{%
190     \PackageError{accsupp}{%
191         Unsupported driver '\ACCSUPP@driver'.\MessageBreak
192         Package loading is aborted%
193     } \@ehc
194     \ACCSUPP@AtEnd
195 }%

```

### 3.4 Main macro

```

196 \DeclareBoolOption{unicode}
197 \DeclareStringOption[page]{pdfliteral}
198 \DeclareStringOption{Lang}
199 \def\ACCSUPP@method{escape}
200 \define@key{ACCSUPP}{method}{%
201     \@ifundefined{ACCSUPP@method@#1}{%
202         \PackageError{accsupp}{%
203             Ignoring unknown method '#1'%
204         } \@ehc
205     }{%
206         \edef\ACCSUPP@method{#1}%
207     }%
208 }
209 \let\ACCSUPP@Lang\relax
210 \def\ACCSUPP@temp#1{%
211     \expandafter\ACCSUPP@@temp\csname ACCSUPP@#1\endcsname{#1}%
212 }
213 \def\ACCSUPP@@temp#1#2{%
214     \let#1\relax
215     \define@key{ACCSUPP}{#2}{%
216         \def#1{##1}%
217         \ifx#1\@empty
218             \def#1{()}%

```



```

219     \else
220         \csname ACCSUPP@method@\ACCSUPP@method\endcsname#1%
221     \fi
222 }%
223 }
224 \ACCSUPP@temp{Alt}
225 \ACCSUPP@temp{ActualText}
226 \ACCSUPP@temp{E}

227 \newcommand*\BeginAccSupp}[1]{%
228     \begingroup
229     \setkeys{ACCSUPP}{#1}%
230     \edef\ACCSUPP@span{%
231         /Span<<%
232         \ifx\ACCSUPP@Lang\relax
233             \else
234                 /Lang\ACCSUPP@Lang
235             \fi
236         \ifx\ACCSUPP@Alt\relax
237             \else
238                 /Alt\ACCSUPP@Alt
239             \fi
240         \ifx\ACCSUPP@ActualText\relax
241             \else
242                 /ActualText\ACCSUPP@ActualText
243             \fi
244         \ifx\ACCSUPP@E\relax
245             \else
246                 /E\ACCSUPP@E
247             \fi
248         >>%
249     }%
250     \ACCSUPP@bdc
251     \ACCSUPP@space
252 \endgroup
253 }

254 \newcommand*\EndAccSupp}[1]{%
255     \begingroup
256     \setkeys{ACCSUPP}{#1}%
257     \ACCSUPP@emc
258 \endgroup
259 }

260 \def\ACCSUPP@space{%
261     \ifACCSUPP@space
262         \begingroup
263             \ifundefined{ACCSUPP@Font}{%
264                 \global\font\ACCSUPP@Font=\ACCSUPP@spacefont\relax
265             }{%
266                 \leavevmode
267                 \setbox\z@\hbox{\ACCSUPP@Font\char\ACCSUPP@spacechar}%
268                 \wd\z@\z@
269                 \ht\z@\z@
270                 \dp\z@\z@
271                 \copy\z@
272             \endgroup
273         \fi
274     }

275 \newcommand*\AccSuppSetup}{%
276     \setkeys{ACCSUPP}%

```

277 }

### 3.4.1 Input methods

```
278 \def\ACCSUPP@method@plain#1{%
279   \csname @safe@activetrue\endcsname
280   \edef#1{%
281     (%
282     \ifACCSUPP@unicode
283       \string\376\string\377%
284     \fi
285     #1%
286     )%
287   }%
288   \@onelevel@sanitize#1%
289 }

290 \def\ACCSUPP@method@escape#1{%
291   \EdefEscapeString#1{%
292     \ifACCSUPP@unicode
293       ^^fe^^ff%
294     \fi
295     #1%
296   }%
297   \edef#1{(#1)}%
298 }%

299 \def\ACCSUPP@method@hex#1{%
300   \edef#1{%
301     <%
302     \ifACCSUPP@unicode
303       FEFF%
304     \fi
305     #1%
306     >%
307   }%
308 }

309 \def\ACCSUPP@method@pdfstringdef#1{%
310   \ifACCSUPP@unicode
311     \@ifundefined{hypersetup}{-}{%
312       \hypersetup{unicode}%
313     }%
314   \fi
315   \@ifundefined{pdfstringdef}{-}{%
316     \PackageError{accsupp}{%
317       Method 'pdfstringdef' requires package 'hyperref'%
318     }\@ehc
319     \let\ACCSUPP@temp\@empty
320   }{%
321     \begingroup
322     \setbox0=\hbox{%
323       \pdfstringdef\ACCSUPP@temp#1%
324       \global\let\ACCSUPP@temp\ACCSUPP@temp
325     }%
326     \endgroup
327   }%
328   \edef#1{(\ACCSUPP@temp)}%
329 }

330 \ACCSUPP@AtEnd%
331 \end{package}
```

## 3.5 Drivers

### 3.5.1 Driver pdftex

```
332 <*pdftex>
333 \NeedsTeXFormat{LaTeX2e}
334 \ProvidesFile{accsupp-pdftex.def}%
335 [2018/03/28 v0.5 accsupp driver for pdfTeX (HO)]%

336 \def\ACCSUPP@bdc{%
337   \pdfliteral\ACCSUPP@pdfliteral{\ACCSUPP@span BDC}%
338 }
339 \def\ACCSUPP@emc{%
340   \pdfliteral\ACCSUPP@pdfliteral{EMC}%
341 }

342 </pdftex>
```

### 3.5.2 Driver luatex

```
343 <*luatex>
344 \NeedsTeXFormat{LaTeX2e}
345 \ProvidesFile{accsupp-luatex.def}%
346 [2018/03/28 v0.5 accsupp driver for pdfTeX (HO)]%

347 \protected\def\ACCSUPP@pdf@literal{\pdfextension literal}
348 \def\ACCSUPP@bdc{%
349   \ACCSUPP@pdf@literal\ACCSUPP@pdfliteral{\ACCSUPP@span BDC}%
350 }
351 \def\ACCSUPP@emc{%
352   \ACCSUPP@pdf@literal\ACCSUPP@pdfliteral{EMC}%
353 }

354 </luatex>
```

### 3.5.3 Driver dvipdfm

```
355 <*dvipdfm>
356 \NeedsTeXFormat{LaTeX2e}
357 \ProvidesFile{accsupp-dvipdfm.def}%
358 [2018/03/28 v0.5 accsupp driver for dvipdfm (HO)]%

359 \def\ACCSUPP@bdc{%
360   \special{pdf:content \ACCSUPP@span BDC}%
361 }
362 \def\ACCSUPP@emc{%
363   \special{pdf:content EMC}%
364 }

365 </dvipdfm>
```

### 3.5.4 Driver dvips

```
366 <*dvips>
367 \NeedsTeXFormat{LaTeX2e}
368 \ProvidesFile{accsupp-dvips.def}%
369 [2018/03/28 v0.5 accsupp driver for dvips (HO)]%

370 \def\ACCSUPP@bdc{%
371   \special{ps:[\ACCSUPP@span/BDC pdfmark}%
372 }
373 \def\ACCSUPP@emc{%
374   \special{ps:[/EMC pdfmark}%
375 }

376 </dvips>
```

## 4 Installation

### 4.1 Download

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

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

[CTAN:macros/latex/contrib/oberdiek/accsupp.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 T<sub>E</sub>X Files” ([CTAN:pkg/tds](#)). 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
```

### 4.3 Package installation

**Unpacking.** The `.dtx` file is a self-extracting `docstrip` archive. The files are extracted by running the `.dtx` through plain T<sub>E</sub>X:

```
tex accsupp.dtx
```

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

<code>accsupp.sty</code>	→ <code>tex/latex/oberdiek/accsupp.sty</code>
<code>accsupp-pdftex.def</code>	→ <code>tex/latex/oberdiek/accsupp-pdftex.def</code>
<code>accsupp-luatex.def</code>	→ <code>tex/latex/oberdiek/accsupp-luatex.def</code>
<code>accsupp-dvipdfm.def</code>	→ <code>tex/latex/oberdiek/accsupp-dvipdfm.def</code>
<code>accsupp-dvips.def</code>	→ <code>tex/latex/oberdiek/accsupp-dvips.def</code>
<code>accsupp.pdf</code>	→ <code>doc/latex/oberdiek/accsupp.pdf</code>
<code>accsupp-example1.tex</code>	→ <code>doc/latex/oberdiek/accsupp-example1.tex</code>
<code>accsupp-example2.tex</code>	→ <code>doc/latex/oberdiek/accsupp-example2.tex</code>
<code>accsupp.dtx</code>	→ <code>source/latex/oberdiek/accsupp.dtx</code>

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 T<sub>E</sub>X distribution (T<sub>E</sub>X Live, mikT<sub>E</sub>X, ...) relies on file name databases, you must refresh these. For example, T<sub>E</sub>X Live users run `texhash` or `mktexlsr`.

---

<sup>1</sup>[CTAN:pkg/accsupp](#)

## 4.5 Some details for the interested

**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{accsupp.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 accsupp.dtx
makeindex -s gind.ist accsupp.idx
pdflatex accsupp.dtx
makeindex -s gind.ist accsupp.idx
pdflatex accsupp.dtx
```

## 5 References

- [1] Adobe Systems Incorporated, *PDF Reference*, 6th edition, 2006. [http://www.adobe.com/devnet/acrobat/pdfs/pdf\\_reference.pdf](http://www.adobe.com/devnet/acrobat/pdfs/pdf_reference.pdf)

## 6 History

[2007/03/21 v0.1]

- First version.

[2007/11/14 v0.2]

- Various bug fixes.
- Catcode section rewritten, test added.

[2010/01/16 v0.3]

- \AccSuppSetup added.
- Options space, spacefont, spacechar added.

[2016/05/16 v0.4]

- Documentation updates.

[2018/03/28 v0.5]

- LuaT<sub>E</sub>X support added.

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