

The uniquecounter package

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Abstract

This package provides a kind of counter that provides unique number values. Several counters can be created by different names. The numeric values are not limited.

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

1 Documentation

`\UniqueCounterNew {<name>}`

Macro `\UniqueCounterNew` creates a new unique counter `<name>`. An error is thrown, if the counter already exists.

`\UniqueCounterCall {<name>} {<code>}`

Macro `\UniqueCounterCall` calls the given `<code>` with a new value of counter `<name>` as argument.

`\UniqueCounterIncrement {<name>}`

Macro `\UniqueCounterIncrement` generates a new value for the counter `<name>` by incrementing by one (globally).

`\UniqueCounterGet {<name>}`

Expandable macro `\UniqueCounterGet` returns the current value of counter `<name>`

1.1 Example

```
1 <*example>
2 \documentclass{minimal}
3 \usepackage{uniquecounter}
4 \UniqueCounterNew{anchor}
5 \makeatletter
6 \newcommand*{\DefNewAnchorName}[2]{%
7   % #1 is unique counter value
8   % #2 is name of anchor
9   \@namedef{anchor@#2}{a#1}%
10 }
11 \newcommand*{\NewAnchorName}[1]{%
12   \UniqueCounterCall{anchor}\DefNewAnchorName{#1}%
13 }
14 \newcommand*{\PrintAnchorName}[1]{%
15   \@nameuse{anchor@#1}%
16 }
17 \begin{document}
18   \NewAnchorName{Top}%
19   \NewAnchorName{Left}%
20   \noindent
21   Top: \PrintAnchorName{Top}\\\\%
22   Left: \PrintAnchorName{Left}%
23 \end{document}
24 </example>
```

2 Implementation

```
25 <*package>
```

2.1 Reload check and package identification

Reload check, especially if the package is not used with \LaTeX .

```
26 \begingroup\catcode61\catcode48\catcode32=10\relax%
27 \catcode13=5 % ^^M
28 \endlinechar=13 %
```

```

29 \catcode35=6 % #
30 \catcode39=12 % '
31 \catcode44=12 % ,
32 \catcode45=12 % -
33 \catcode46=12 % .
34 \catcode58=12 % :
35 \catcode64=11 % @
36 \catcode123=1 % {
37 \catcode125=2 % }
38 \expandafter\let\expandafter\x\csname ver@uniquecounter.sty\endcsname
39 \ifx\x\relax % plain-TeX, first loading
40 \else
41   \def\empty{}%
42   \ifx\x\empty % LaTeX, first loading,
43     % variable is initialized, but \ProvidesPackage not yet seen
44   \else
45     \expandafter\ifx\csname PackageInfo\endcsname\relax
46       \def\x#1#2{%
47         \immediate\write-1{Package #1 Info: #2.}%
48       }%
49     \else
50       \def\x#1#2{\PackageInfo{#1}{#2, stopped}}%
51     \fi
52     \x{uniquecounter}{The package is already loaded}%
53   \aftergroup\endinput
54 \fi
55 \fi
56 \endgroup%

```

Package identification:

```

57 \begingroup\catcode61\catcode48\catcode32=10\relax%
58 \catcode13=5 % ^^M
59 \endlinechar=13 %
60 \catcode35=6 % #
61 \catcode39=12 % '
62 \catcode40=12 % (
63 \catcode41=12 % )
64 \catcode44=12 % ,
65 \catcode45=12 % -
66 \catcode46=12 % .
67 \catcode47=12 % /
68 \catcode58=12 % :
69 \catcode64=11 % @
70 \catcode91=12 % [
71 \catcode93=12 % ]
72 \catcode123=1 % {
73 \catcode125=2 % }
74 \expandafter\ifx\csname ProvidesPackage\endcsname\relax
75   \def\x#1#2#3[#4]{\endgroup
76     \immediate\write-1{Package: #3 #4}%
77     \xdef#1{#4}%
78   }%
79 \else
80   \def\x#1#2[#3]{\endgroup
81     #2[#{#3}]%
82     \ifx#1\@undefined
83       \xdef#1{#3}%
84     \fi
85     \ifx#1\relax
86       \xdef#1{#3}%
87     \fi
88   }%
89 \fi

```

```

90 \expandafter\x\csname ver@uniquecounter.sty\endcsname
91 \ProvidesPackage{uniquecounter}%
92 [2016/05/16 v1.3 Provide unlimited unique counter (HO)]%

```

2.2 Catcodes

```

93 \begingroup\catcode61\catcode48\catcode32=10\relax%
94 \catcode13=5 % ^^M
95 \endlinechar=13 %
96 \catcode123=1 % {
97 \catcode125=2 % }
98 \catcode64=11 % @
99 \def\x{\endgroup
100 \expandafter\edef\csname uqc@AtEnd\endcsname{%
101 \endlinechar=\the\endlinechar\relax
102 \catcode13=\the\catcode13\relax
103 \catcode32=\the\catcode32\relax
104 \catcode35=\the\catcode35\relax
105 \catcode61=\the\catcode61\relax
106 \catcode64=\the\catcode64\relax
107 \catcode123=\the\catcode123\relax
108 \catcode125=\the\catcode125\relax
109 }%
110 }%
111 \x\catcode61\catcode48\catcode32=10\relax%
112 \catcode13=5 % ^^M
113 \endlinechar=13 %
114 \catcode35=6 % #
115 \catcode64=11 % @
116 \catcode123=1 % {
117 \catcode125=2 % }
118 \def\TMP@EnsureCode#1#2{%
119 \edef\uqc@AtEnd{%
120 \uqc@AtEnd
121 \catcode#1=\the\catcode#1\relax
122 }%
123 \catcode#1=#2\relax
124 }
125 \TMP@EnsureCode{33}{12}% !
126 \TMP@EnsureCode{39}{12}% '
127 \TMP@EnsureCode{42}{12}% *
128 \TMP@EnsureCode{43}{12}% +
129 \TMP@EnsureCode{46}{12}% .
130 \TMP@EnsureCode{47}{12}% /
131 \TMP@EnsureCode{91}{12}% [
132 \TMP@EnsureCode{93}{12}% ]
133 \TMP@EnsureCode{96}{12}% `
134 \edef\uqc@AtEnd{\uqc@AtEnd\noexpand\endinput}

135 \begingroup\expandafter\expandafter\expandafter\endgroup
136 \expandafter\ifx\csname RequirePackage\endcsname\relax
137 \def\TMP@RequirePackage#1[#2]{%
138 \begingroup\expandafter\expandafter\expandafter\endgroup
139 \expandafter\ifx\csname ver@#1.sty\endcsname\relax
140 \input #1.sty\relax
141 \fi
142 }%
143 \TMP@RequirePackage{bigintcalc}[2007/11/11]%
144 \TMP@RequirePackage{infwarerr}[2007/09/09]%
145 \else
146 \RequirePackage{bigintcalc}[2007/11/11]%
147 \RequirePackage{infwarerr}[2007/09/09]%
148 \fi

```

\uqc@IncNum

```
149 \begingroup\expandafter\expandafter\expandafter\endgroup
150 \expandafter\ifx\csname numexpr\endcsname\relax
151 \def\uqc@IncNum#1{%
152   \begingroup
153     \count@=\csname uqc@cnt@#1\endcsname\relax
154     \advance\count@\@ne
155     \expandafter\xdef\csname uqc@cnt@#1\endcsname{%
156       \number\count@
157     }%
158     \ifnum\count@=2147483647 %
159       \global\expandafter\let\csname uqc@inc@#1\endcsname
160         \uqc@IncBig
161     \fi
162   \endgroup
163 }%
164 \else
165 \def\uqc@IncNum#1{%
166   \expandafter\xdef\csname uqc@cnt@#1\endcsname{%
167     \number\numexpr\csname uqc@cnt@#1\endcsname+1%
168   }%
169   \ifnum\csname uqc@cnt@#1\endcsname=2147483647 %
170     \global\expandafter\let\csname uqc@inc@#1\endcsname
171       \uqc@IncBig
172   \fi
173 }%
174 \fi
```

\uqc@IncBig

```
175 \def\uqc@IncBig#1{%
176   \expandafter\xdef\csname uqc@cnt@#1\endcsname{%
177     \expandafter\expandafter\expandafter
178     \BigIntCalcInc\csname uqc@cnt@#1\endcsname!%
179   }%
180 }
```

\uqc@Def

```
181 \begingroup\expandafter\expandafter\expandafter\endgroup
182 \expandafter\ifx\csname newcommand\endcsname\relax
183 \def\uqc@Def#1{\def#1##1}%
184 \else
185 \def\uqc@Def#1{\newcommand*{#1}[1]}%
186 \fi
```

\UniqueCounterNew

```
187 \uqc@Def\UniqueCounterNew{%
188   \expandafter\ifx\csname uqc@cnt@#1\endcsname\relax
189     \expandafter\xdef\csname uqc@cnt@#1\endcsname{0}%
190     \global\expandafter\let\csname uqc@inc@#1\endcsname\uqc@IncNum
191     \@PackageInfo{uniquecounter}{New unique counter `#1'}%
192   \else
193     \@PackageError{uniquecounter}{Unique counter `#1' is already defined}\@ehc
194   \fi
195 }
```

\UniqueCounterIncrement

```
196 \uqc@Def\UniqueCounterIncrement{%
197   \expandafter\ifx\csname uqc@cnt@#1\endcsname\relax
198     \@PackageError{uniquecounter}{Unique counter `#1' is undefined}\@ehc
199   \else
200     \csname uqc@inc@#1\endcsname{#1}%
201   \fi
202 }
```

\UniqueCounterGet

```
203 \uqc@Def\UniqueCounterGet{%  
204   \csname uqc@cnt@#1\endcsname  
205 }
```

\UniqueCounterCall

```
206 \uqc@Def\UniqueCounterCall{%  
207   \expandafter\ifx\csname uqc@cnt@#1\endcsname\relax  
208     \@PackageError{uniquecounter}{Unique counter `#1' is undefined}\@ehc  
209     \expandafter\uqc@Call\expandafter0%  
210   \else  
211     \UniqueCounterIncrement{#1}%  
212     \expandafter\expandafter\expandafter\uqc@Call  
213     \expandafter\expandafter\expandafter{%  
214       \csname uqc@cnt@#1\endcsname\expandafter  
215     }%  
216   \fi  
217 }
```

\uqc@Call

```
218 \long\def\uqc@Call#1#2{#2{#1}}%  
  
219 \uqc@AtEnd%  
220 \</package>
```

3 Test

3.1 Catcode checks for loading

```
221 (*test1)  
  
222 \catcode`\{=1 %  
223 \catcode`\}=2 %  
224 \catcode`\#=6 %  
225 \catcode`\@=11 %  
226 \expandafter\ifx\csname count@\endcsname\relax  
227   \countdef\count@=255 %  
228 \fi  
229 \expandafter\ifx\csname @gobble\endcsname\relax  
230   \long\def\@gobble#1{%  
231   \fi  
232 \expandafter\ifx\csname @firstofone\endcsname\relax  
233   \long\def\@firstofone#1{#1}%  
234 \fi  
235 \expandafter\ifx\csname loop\endcsname\relax  
236   \expandafter\@firstofone  
237 \else  
238   \expandafter\@gobble  
239 \fi  
240 {%  
241   \def\loop#1\repeat{%  
242     \def\body{#1}%  
243     \iterate  
244   }%  
245   \def\iterate{%  
246     \body  
247     \let\next\iterate  
248   \else  
249     \let\next\relax  
250   \fi  
251   \next  
252 }%
```

```

253 \let\repeat=\fi
254 }%
255 \def\RestoreCatcodes{}
256 \count@=0 %
257 \loop
258 \edef\RestoreCatcodes{%
259   \RestoreCatcodes
260   \catcode\the\count@=\the\catcode\count@\relax
261 }%
262 \ifnum\count@<255 %
263   \advance\count@ 1 %
264 \repeat
265
266 \def\RangeCatcodeInvalid#1#2{%
267   \count@=#1\relax
268   \loop
269     \catcode\count@=15 %
270     \ifnum\count@<#2\relax
271       \advance\count@ 1 %
272     \repeat
273 }
274 \def\RangeCatcodeCheck#1#2#3{%
275   \count@=#1\relax
276   \loop
277     \ifnum#3=\catcode\count@
278     \else
279       \errmessage{%
280         Character \the\count@\space
281         with wrong catcode \the\catcode\count@\space
282         instead of \number#3%
283       }%
284     \fi
285     \ifnum\count@<#2\relax
286       \advance\count@ 1 %
287     \repeat
288 }
289 \def\space{ }
290 \expandafter\ifx\csname LoadCommand\endcsname\relax
291 \def\LoadCommand{\input uniquecounter.sty\relax}%
292 \fi
293 \def\Test{%
294   \RangeCatcodeInvalid{0}{47}%
295   \RangeCatcodeInvalid{58}{64}%
296   \RangeCatcodeInvalid{91}{96}%
297   \RangeCatcodeInvalid{123}{255}%
298   \catcode`\@=12 %
299   \catcode`\=\=0 %
300   \catcode`\%=14 %
301   \LoadCommand
302   \RangeCatcodeCheck{0}{36}{15}%
303   \RangeCatcodeCheck{37}{37}{14}%
304   \RangeCatcodeCheck{38}{47}{15}%
305   \RangeCatcodeCheck{48}{57}{12}%
306   \RangeCatcodeCheck{58}{63}{15}%
307   \RangeCatcodeCheck{64}{64}{12}%
308   \RangeCatcodeCheck{65}{90}{11}%
309   \RangeCatcodeCheck{91}{91}{15}%
310   \RangeCatcodeCheck{92}{92}{0}%
311   \RangeCatcodeCheck{93}{96}{15}%
312   \RangeCatcodeCheck{97}{122}{11}%
313   \RangeCatcodeCheck{123}{255}{15}%
314   \RestoreCatcodes

```

```

315 }
316 \Test
317 \csname @@end\endcsname
318 \end
319 </test1>

```

3.2 Macro tests

3.2.1 Test with L^AT_EX

```

320 <*test2>
321 \NeedsTeXFormat{LaTeX2e}
322 \nofiles
323 \documentclass{minimal}
324 \usepackage{uniquecounter}[2016/05/16]
325 \usepackage{qstest}
326 \IncludeTests{*}
327 \LogTests{log}{*}{*}
328
329 \newcommand*{\CheckValue}[2]{%
330   \Expect*{#2}*{\UniqueCounterGet{#1}}%
331 }
332 \newcommand*{\CheckSpace}[1]{%
333   \sbox0{#1}%
334   \Expect{0.0pt}*{\the\wd0}%
335 }
336
337 \begin{qstest}{creation}{creation}
338   \CheckSpace{%
339     \UniqueCounterNew{test}%
340   }%
341   \CheckValue{test}{0}%
342 \end{qstest}
343
344 \begin{qstest}{increment}{increment}
345   \CheckSpace{%
346     \UniqueCounterIncrement{test}%
347   }%
348   \CheckValue{test}{1}%
349   \makeatletter
350   \def\uqc@cnc@test{2147483645}%
351   \CheckValue{test}{2147483645}%
352   \CheckSpace{%
353     \UniqueCounterIncrement{test}%
354   }%
355   \CheckValue{test}{2147483646}%
356   \CheckSpace{%
357     \UniqueCounterIncrement{test}%
358   }%
359   \Expect{true}*{\ifx\uqc@inc\uqc@NumInc true\else false\fi}%
360   \CheckValue{test}{2147483647}%
361   \CheckSpace{%
362     \UniqueCounterIncrement{test}%
363   }%
364   \CheckValue{test}{2147483648}%
365   \CheckSpace{%
366     \UniqueCounterIncrement{test}%
367   }%
368   \CheckValue{test}{2147483649}%
369 \end{qstest}
370
371 \begin{qstest}{call}{call}
372   \def\CheckCall#1#2{%

```



```

373   \Expect{#1}{#2}%
374 }%
375 \CheckSpace{%
376   \UniqueCounterNew{foo}%
377 }%
378 \CheckValue{foo}{0}%
379 \def\Check#1{%
380   \CheckSpace{%
381     \UniqueCounterCall{foo}{\CheckCall}{#1}%
382   }%
383   \CheckValue{foo}{#1}%
384 }%
385 \Check{1}%
386 \Check{2}%
387 \Check{3}%
388 \Check{4}%
389 \Check{5}%
390 \Check{6}%
391 \Check{7}%
392 \Check{8}%
393 \Check{9}%
394 \Check{10}%
395 \Check{11}%
396 \Check{12}%
397 \end{qstest}
398
399 \csname @@end\endcsname
400 /test2)

```

3.2.2 Test with plain-TeX

```

401 (*test3)
402 \input uniquecounter.sty\relax
403 \catcode`\@=11 %
404 \def\CheckValue#1#2{%
405   \begingroup
406     \edef\A{#2}%
407     \edef\B{\UniqueCounterGet{#1}}%
408     \ifx\A\B
409       \else
410         \@PackageError{TEST}{Failed: \A\space<> \B}\@ehc
411       \fi
412   \endgroup
413 }
414 \def\CheckSpace#1{%
415   \setbox0=\hbox{#1}%
416   \ifdim\wd0=\z@
417     \else
418       \@PackageError{TEST}{Failed: 0.0pt <> \the\wd0}\@ehc
419     \fi
420 }
421
422 \begingroup
423   \CheckSpace{%
424     \UniqueCounterNew{test}%
425   }%
426   \CheckValue{test}{0}%
427 \endgroup
428
429 \begingroup
430   \CheckSpace{%
431     \UniqueCounterIncrement{test}%
432   }%
433   \CheckValue{test}{1}%

```

```

434 \def\uqc@cnt@test{2147483645}%
435 \CheckValue{test}{2147483645}%
436 \CheckSpace{%
437   \UniqueCounterIncrement{test}%
438 }%
439 \CheckValue{test}{2147483646}%
440 \CheckSpace{%
441   \UniqueCounterIncrement{test}%
442 }%
443 \ifx\uqc@inc\uqc@NumInc
444 \else
445   \@PackageError{TEST}{Failed: wrong inc function}\@ehc
446 \fi
447 \CheckValue{test}{2147483647}%
448 \CheckSpace{%
449   \UniqueCounterIncrement{test}%
450 }%
451 \CheckValue{test}{2147483648}%
452 \CheckSpace{%
453   \UniqueCounterIncrement{test}%
454 }%
455 \CheckValue{test}{2147483649}%
456 \endgroup
457 \begingroup
458 \def\CheckCall#1#2{%
459   \begingroup
460     \def\A{#1}%
461     \def\B{#2}%
462     \ifx\A\B
463     \else
464       \@PackageError{TEST}{Failed: \A\space <> \B}\@ehc
465     \fi
466   \endgroup
467 }%
468 \CheckSpace{%
469   \UniqueCounterNew{foo}%
470 }%
471 \CheckValue{foo}{0}%
472 \CheckSpace{%
473   \UniqueCounterCall{foo}{\CheckCall}{1}%
474 }%
475 \CheckSpace{%
476   \UniqueCounterCall{foo}{\CheckCall}{2}%
477 }%
478 \CheckValue{foo}{2}%
479 \endgroup
480 \csname @@end\endcsname\end
481 \test3

```

4 Installation

4.1 Download

Package. This package is available on CTAN¹:

[CTAN:macros/latex/contrib/oberdiek/uniquecounter.dtx](http://ctan.org/pkg/uniquecounter) The source file.

[CTAN:macros/latex/contrib/oberdiek/uniquecounter.pdf](http://ctan.org/pkg/uniquecounter) 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.

¹<http://ctan.org/pkg/uniquecounter>

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

TDS refers to the standard “A Directory Structure for T_EX 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
```

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 T_EX:

```
tex uniquecounter.dtx
```

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

| | |
|---|--|
| <code>uniquecounter.sty</code> | → <code>tex/generic/oberdiek/uniquecounter.sty</code> |
| <code>uniquecounter.pdf</code> | → <code>doc/latex/oberdiek/uniquecounter.pdf</code> |
| <code>uniquecounter-example.tex</code> | → <code>doc/latex/oberdiek/uniquecounter-example.tex</code> |
| <code>test/uniquecounter-test1.tex</code> | → <code>doc/latex/oberdiek/test/uniquecounter-test1.tex</code> |
| <code>test/uniquecounter-test2.tex</code> | → <code>doc/latex/oberdiek/test/uniquecounter-test2.tex</code> |
| <code>test/uniquecounter-test3.tex</code> | → <code>doc/latex/oberdiek/test/uniquecounter-test3.tex</code> |
| <code>uniquecounter.dtx</code> | → <code>source/latex/oberdiek/uniquecounter.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_EX distribution (teT_EX, mikT_EX, ...) relies on file name databases, you must refresh these. For example, teT_EX users run `texhash` or `mktextlsr`.

4.5 Some details for the interested

Unpacking with L^AT_EX. The `.dtx` chooses its action depending on the format:

plain T_EX: Run `docstrip` and extract the files.

L^AT_EX: Generate the documentation.

If you insist on using L^AT_EX for `docstrip` (really, `docstrip` does not need L^AT_EX), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{uniquecounter.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^AT_EX:

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

5 Catalogue

The following XML file can be used as source for the [T_EX 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 `uniquecounter.xml`.

```
482 (*catalogue)
483 <?xml version='1.0' encoding='us-ascii'?>
484 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
485 <entry datestamp='$Date$' modifier='$Author$' id='uniquecounter'>
486   <name>uniquecounter</name>
487   <caption>Provides unlimited unique counter.</caption>
488   <authorref id='auth:oberdiek'>/>
489   <copyright owner='Heiko Oberdiek' year='2009,2011'>/>
490   <license type='lppl1.3'>/>
491   <version number='1.3'>/>
492   <description>
493     This package provides a kind of counter that provides unique
494     number values. Several counters can be created with different names.
495     The numeric values are not limited.
496   </p>
497   The package is part of the <xref refid='oberdiek'>oberdiek</xref>
498   bundle.
499 </description>
500 <documentation details='Package documentation'
501   href='ctan:/macros/latex/contrib/oberdiek/uniquecounter.pdf'>/>
502 <ctan file='true' path='/macros/latex/contrib/oberdiek/uniquecounter.dtx'>/>
503 <miktex location='oberdiek'>/>
504 <texlive location='oberdiek'>/>
505 <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip'>/>
506 </entry>
507 </catalogue>
```

6 History

[2009/09/11 v1.0]

- First public version.

[2009/12/18 v1.1]

- Bug fix in `\UniqueCounterCall` for values > 9 (bug report of Lev Bishop).

[2011/01/30 v1.2]

- Already loaded package files are not input in plain T_EX.

- Documentation updates.

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