# styledcmd

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03 August 2022

styledcmd is a LATEX package that allows you to create and manage different versions of your macro in order to be able to choose the better style for every occasion and avoid rewriting code each time.

### 1 How can you include it in your project?

You need only to have the file styledcmd.sty in your current working directory. Otherwise you can manually install it inside your preferred LATEX compiler (for example TeXLive or MiKTeX) in order to make it available for all your projects. Instructions for manually install a package can be found on Internet.

Then once you've added it you can include in your project with this command:

\usepackage{styledcmd}

## 2 How do you use it?

You can create a formatted macro via the following command

\newstyledcmd
\renewstyledcmd
\providestyledcmd

```
\verb|\newstyledcmd {$\langle macro\ name \rangle$} {$\langle style\ name \rangle$} {$[\langle number\ of\ arguments \rangle$] } {$\langle code \rangle$}
```

it has the same syntax of \newcommand except for the  $\langle style \ name \rangle$  argument that specify the style. This macro alone creates commands \( \langle macro \ name \rangle \ and \( \langle macro \ name \rangle \ [ \langle style \ name \rangle ] that both expand as  $\langle code \rangle$ .

The most important feature is that you can call  $\newstyledcmd$  multiple times with the same  $\langle macro\ name \rangle$  but different  $\langle style\ name \rangle$ , in this way each of  $\newstyledcmd$  name  $\newstyledcmd$  expands to  $\langle code \rangle$  associated to specified  $\langle style\ name \rangle$ . Notice that if you don't specify a style with just calling  $\newstyledcmd$  name then it expands as the first created style, that style is the default one for such command.

As an example these commands

```
\newstyledcmd{\saluto}{informal}[1]{Hi #1}
\newstyledcmd{\saluto}{formal}[1]{Good morning #1}
```

define the two formats informal and formal for macro \saluto. Once you've created these two styles for \saluto you can use it with or without the style name argument, for example these commands

```
\saluto{uncle}
\saluto[informal]{uncle}
\saluto[formal]{uncle}
```

will be expanded respectively as Hi uncle, Hi uncle, Good morning uncle. With the same syntax you can use \renewstyledcmd and \providestyledcmd with the same meaning of \renewcommand and \providecommand respectively.

## 3 How do you change the default style?

In order to change the default style (the one used when you don't choose explicitly a style) you need to execute the following command

 $\verb|\setGlobalStyle | $$ \{ (new default style name) \} $$ \{ (new default style name) \} $$$ 

For example in order to change the default style of command \saluto from informal to formal you need to execute command \setGlobalStyle{\saluto}{formal}. With this command the output of preceding commands will instead be Good morning uncle, Hi uncle, Good morning uncle.

## 4 Customize parameters with xparse

styledcmd loads automatically the xparse package for internal reasons. You can also define new styled commands with the same syntax used by \NewDocumentCommand with the following command

\NewDocStyledCMD \RenewDocStyledCMD \ProvideDocStyledCMD

For example we can create the following two styles

```
\NewDocStyledCMD{\prova}{stylea}{r<>}{Stile 1 #1}
\NewDocStyledCMD{\prova}{styleb}{r<>>}{Stile 2 #1}
```

in order to execute

```
\prova<Hello>
\prova[stylea]<Hello>
\prova[styleb]<Hello>
```

which are expanded respectively as Stile 1 Hello; Stile 1 Hello; Stile 2 Hello. Notice that the first optional argument passed to a command defined via \NewDocStyledCMD will always be interpreted as a style argument, so you should use another syntax for optional arguments or use a mandatory argument for the first place.

For example this declaration \NewDocStyledCMD{\bad}{style}{o m}{Bad declaration} should be avoided since for example \bad[arg1]{arg2} will interpret arg1 as a style name and not as the first optional argument for \bad.

### 5 Expandable commands

Coomands created by \newstyledcmd doesn't work very well in expansion only context due to the presence of optional style argument. In order to be able to create expandable commands you should instead use

\newstyledcmdExp
\renewstyledcmdExp
\providestyledcmdExp

```
\verb|\newstyledcmdExp {\dashedcolor= name|} {
```

Despite commands created with \newstyledcmd the style name of commands created by \newstyledcmdExp are always mandatory and must be passed inside curly braces. In order to use the default style just pass an empty string as style name.

For example this code

```
\newstyledcmdExp{\expCMD}{sty1}{Style 1}
\newstyledcmdExp{\expCMD}{sty2}{Style 2}
\expCMD{}
\expCMD{sty1}
\expCMD{sty2}
expand as Style 1 Style 2
```

## 6 Groups

The group mechanism is very different from styledcmd 1.2 and preceding versions. From 2.0 styled commands can be added to a group in order to change toghether their style. Groups are automatically created when you're tying to add commands to it:

 $\begin{tabular}{ll} \hline & & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\$ 

You can change the default style for each member of a group with

 $\verb|\SetGroupStyle | \{\langle group | name \rangle\} | \{\langle style | name \rangle\}|$ 

Suppose you've created the following styled commands:

```
\newstyledcmd{\LenUnit}{SI}{metre}
\newstyledcmd{\MasUnit}{SI}{kilo}
\newstyledcmd{\LenUnit}{old}{yard}
```

\newstyledcmd{\MasUnit}{old}{pound}

Commands \LenUnit, \MasUnit will expand as metre, kilo respectively since SI is the default style. We've used \newstyledcmd but you could use also \NewDocStyledCMD, \newstyledcmdExp or any other command generated as in section 7. To add these two commands to group Units run

```
\AddCMDToGroup{Units}{\LenUnit, \MasUnit}
```

If you want to set old as the default style for these commands just run

\SetGroupStyle{Units}{old}

now \LenUnit, \MasUnit will expand as yard, pound respectively.

Notice that if the specified group already exists then \AddCMDToGroup just appends the speficied commands to it. In particular this

```
\AddCMDToGroup{Units}{\LenUnit}
\AddCMDToGroup{Units}{\MasUnit}
```

is equivalent to write

\AddCMDToGroup{Units}{\LenUnit, \MasUnit}

#### 7 Advanced usage

This section is for advanced users and package mantainers that knows IATEX3, It's not needed to use styledcmd daily or creating documents. If \newstyledcmd, \NewDocStyledCMD and \newstyledcmdExp aren't suitable for you it's possible to create a custom styled command generator, but we first need to know a bit of the internal structure of styledcmd.

What you see as a styled command it's instead a collection of different macros:

- multiple effective styled commands (ES commands), one for each style;
- a single dispatch command that's called by the user and expands to the specified ES command.

\stycmd\_generate:NN

\stycmd generate:NNN \stycmd generate:NNN \generator name \ \( ES commands generator \) \( \dispatch command \)

\stycmd\_generate:NN \( \) generator name \( \) \( \) CS commands generator \( \)

Creates a generator of styled commands with name  $\langle generator \ name \rangle$ . Argument  $\langle ES \rangle$ commands generator) is used to create ES commands and should accept a macro name as the first argument, but there aren't other restrictions on remaining arguments. Suitable ES commands generators are \newcommand and \NewDocumentCommand.

Argument (dispatch command generator) should generate the dispatch command. Despite  $\langle ES \ commands \ qenerator \rangle$  this command must have only one parameter, a string representing the command to be created. Suitable values for this parameter are:

\stycmd\_xparsecmd:N \stycmd\_xparsecmd:N \command \)

Creates the dispatch command with \ProvideDocumentCommand with optional style name parameter (used in \newstyledcmd and \NewDocStyledCMD).

\stycmd\_expcmd:N \stycmd\_expcmd:N \command \)

Creates the dispatch command with \providecommand with mandatory style name parameter (used in \newstyledcmdExp).

If you don't specify the dispatch command generator (by using the NN variant) \stycmd xparsecmd: N is used implicitly.

```
\stycmd_generate_renew:NN \stycmd_generate_renew:NN \dipdater name \dipdater \dipma \dipma \dipma commands generator \dipma
```

Creates command \(\lambda\) updater name\) that modifies styles of commands already generated, like \renewcommand edits commands generated by \newcommand.

For example if you have \createA that creates commands and \editA that edits commands generated by \createA then

```
\stycmd_generate:NN \createStyledA \createA
```

creates styled commands by using \createA and

```
\stycmd_generate_renew:NN \editStyledA \editA
```

modifies commands generated by \createStyledA (by invoking \editA).

#### 8 Implementation

```
1 (*package)
                             2 (@@=stycmd)
  \c_stycmd_cmdproxy_str Proxy used to generate styled commands
                             4 \str_const:Nx \c__stycmd_cmdproxy_str { \object_address:nn
                                   { stycmd }{ proxy } }
                             7 \proxy_create:nnN { stycmd }{ proxy } \c_object_public_str
                             % \proxy_push_member:Vnn \c__stycmd_cmdproxy_str { default }{ tl }
                            (End definition for \c__stycmd_cmdproxy_str.)
          \__stycmd_cmd:n Entity name
                             11 \cs_new:Nn \__stycmd_cmd:n
                                   \object_address:nn{ stycmd }{ entity - #1 }
                             14
                            (End definition for \__stycmd_cmd:n.)
\__stycmd_setdef_strip:Nn
                           Changes the default style
                               \cs_new_protected:Nn \__stycmd_setdef_aux:nN
                             18
                                   \object_member_set:nnn
                                        \__stycmd_cmd:n{ #1 }
                             21
                             22
                                     { default }
                             23
                                     { #2 }
                             26 \cs_generate_variant:Nn \__stycmd_setdef_aux:nN { nc }
```

```
{
                         29
                                \__stycmd_setdef_aux:nc{ #1 }
                         30
                         31
                                    \object_macro_adr:nn
                         32
                         33
                                         \__stycmd_cmd:n{ #1 }
                                      {
                                        style - #2
                         37
                         38
                                 }
                         39
                             }
                         40
                         41
                           \cs_generate_variant:Nn \__stycmd_setdef_style:nn { ff }
                         42
                         43
                           \cs_new_protected:Nn \__stycmd_setdef_strip:Nn
                             {
                         45
                                \__stycmd_setdef_style:ff{ \cs_to_str:N #1 }
                         46
                                  { \tl_trim_spaces:n{ #2 } }
                         47
                             }
                         48
                         49
                        (End definition for \__stycmd_setdef_strip:Nn.)
\ stycmd cmd define strip:NNn Define a macro with the specified command
                         51 \cs_new_protected:Nn \__stycmd_cmd_define_aux_aux:NN
                             {
                               #1 { #2 }
                         53
                         54
                         55 \cs_generate_variant:Nn \__stycmd_cmd_define_aux_aux:NN { Nc }
                         56
                           \cs_new_protected:Nn \__stycmd_cmd_define_aux:Nnn
                         57
                             {
                         58
                                \__stycmd_cmd_define_aux_aux:Nc #1
                         59
                         60
                         61
                                    \object_macro_adr:nn
                                        \_ stycmd_cmd:n{ #2 }
                         63
                                      }
                                      {
                         65
                                        style - #3
                         66
                         67
                                 }
                         68
                             }
                         69
                         70
                         71 \cs_generate_variant:Nn \__stycmd_cmd_define_aux:Nnn { Nff }
                         73 \cs_new_protected:Nn \__stycmd_cmd_define_strip:NNn
                         74
                                \__stycmd_cmd_define_aux:Nff #1
                         75
                                  { \cs_to_str:N #2 }{ \tl_trim_spaces:n { #3 } }
                             }
                         78
```

28 \cs\_new\_protected:Nn \\_\_stycmd\_setdef\_style:nn

```
(End\ definition\ for\ \verb|\__stycmd_cmd_define_strip:NNn.)
                           Uses the styled command
\__stycmd_cmd_usedef:N
  \_stycmd_cmd_usesty_strip:Nn
                             80 \cs_new:Nn \__stycmd_cmd_usedef_aux:n
                             81
                             82
                                    \object_member_use:nn
                             83
                                         \__stycmd_cmd:n{ #1 }
                             84
                             85
                                      {
                             86
                                        {\tt default}
                             87
                             88
                                 }
                             89
                               \cs_generate_variant:Nn \__stycmd_cmd_usedef_aux:n { f }
                               \cs_new:Nn \__stycmd_cmd_usedef:N
                             94
                                    \__stycmd_cmd_usedef_aux:f{ \cs_to_str:N #1 }
                             95
                             96
                             97
                             98
                               \cs_new:Nn \__stycmd_cmd_usesty_aux:nn
                            99
                            100
                                    \object_macro_use:nn
                            101
                                         \__stycmd_cmd:n{ #1 }
                            103
                            104
                                      {
                            105
                                        style - #2
                            106
                            107
                                 }
                            108
                            109
                               \cs_generate_variant:Nn \__stycmd_cmd_usesty_aux:nn { ff }
                            110
                            111
                            112 \cs_new:Nn \__stycmd_cmd_usesty_strip:Nn
                                    \__stycmd_cmd_usesty_aux:ff{ \cs_to_str:N #1 }
                            114
                                      { \tl_trim_spaces:n{ #2 } }
                                 }
                            116
                            117
                            (End\ definition\ for\ \verb|\_stycmd_cmd_usedef:N \ and\ \verb|\_stycmd_cmd_usesty_strip:Nn.|)
                           Creates a new entity if it doesn't exists and execute following code
\_stycmd_entity_create_strip:Nnn
                               \cs_new_protected:Nn \__stycmd_entity_create_aux:nnn
                            119
                            120
                            121
                                    \object_if_exist:nF
                            122
                            123
                                         \__stycmd_cmd:n{ #1 }
```

{

```
\object_create:VnnNN \c__stycmd_cmdproxy_str
126
              { stycmd }{ entity - #1 }
127
              \c_object_global_str
128
              \c_object_public_str
129
130
            \__stycmd_setdef_style:nn{ #1 }{ #2 }
131
132
           #3
133
         }
134
     }
135
136
   \cs_generate_variant:Nn \__stycmd_entity_create_aux:nnn { ffn }
137
138
   \cs_new_protected: Nn \__stycmd_entity_create_strip: Nnn
139
140
       \__stycmd_entity_create_aux:ffn
141
         { \cs_to_str:N #1 }
142
         { \tl_trim_spaces:n{ #2 } }
143
         { #3 }
     }
145
```

 $(End\ definition\ for\ \_\_stycmd\_entity\_create\_strip:Nnn.)$ 

\stycmd\_xparsecmd:N Defines the main macro with \ProvideDocumentCommand.

```
147
   \cs_new_protected:Nn \stycmd_xparsecmd:N
148
149
       \ProvideDocumentCommand { #1 } { o }
150
151
            \IfNoValueTF {##1}
152
                   _stycmd_cmd_usedef:N #1
154
155
              {
                  \lambda_sstycmd_cmd_usesty_strip:Nn #1 { ##1 }
         }
159
     }
160
161
```

(End definition for \stycmd\_xparsecmd:N. This function is documented on page 5.)

\stycmd\_expcmd:N Defines the main macro with \providecommand but the style argument is mandatory in order to make the command expandable. To use default style pass an empty argument as style.

```
162
163 \cs_new_protected:Nn \stycmd_expcmd:N
164 {
165 \providecommand { #1 } [1]
166 {
167 \tl_if_empty:nTF {##1}
168 {
169 \__stycmd_cmd_usedef:N #1
```

(End definition for \stycmd\_expcmd:N. This function is documented on page 5.)

#### \setGlobalStyle

Change the default style for specified command

```
177
178 \NewDocumentCommand{\setGlobalStyle}{m m}
179 {
180 \__stycmd_setdef_strip:Nn #1 { #2 }
181 }
```

(End definition for \setGlobalStyle. This function is documented on page 3.)

#### \stycmd\_generate:NNN \stycmd\_generate:NN \stycmd\_generate\_renew:NN

Declare the styled version #1 of the macro generator command #2. the  $\_renew$  variant requires a preceding declaration

```
\cs_new_protected:Nn \stycmd_generate:NNN
184
185
       \cs_new_protected:Npn #1 ##1 ##2
186
187
               stycmd_entity_create_strip:Nnn ##1 { ##2 }
188
189
                #3 ##1
190
191
            \_stycmd_cmd_define_strip:NNn #2 ##1 { ##2 }
192
    }
   \cs_new_protected:Nn \stycmd_generate:NN
196
197
       \stycmd_generate:NNN #1 #2 \stycmd_xparsecmd:N
198
199
200
201
   \cs_new_protected:Nn \stycmd_generate_renew:NN
202
203
       \cs_new_protected:Npn #1 ##1 ##2
            \__stycmd_cmd_define_strip:NNn #2 ##1 { ##2 }
206
207
     }
208
209
```

(End definition for \stycmd\_generate:NNN, \stycmd\_generate:NN, and \stycmd\_generate\_renew:NN. These functions are documented on page 5.)

```
\newstyledcmd
\renewstyledcmd
\providestyledcmd
```

Declare a new macro with the specified style name.

 ${\tt 210}$  \stycmd\_generate:NN \newstyledcmd \newcommand

211 \stycmd\_generate\_renew:NN \renewstyledcmd \renewcommand

(End definition for  $\newstyledcmd$ ,  $\newstyledcmd$ , and  $\newstyledcmd$ . These functions are documented on page 2.)

\NewDocStyledCMD \RenewDocStyledCMD \ProvideDocStyledCMD Declare a new styled macro with the \NewDocumentCommand syntax.

213 \stycmd\_generate:NN \NewDocStyledCMD \NewDocumentCommand

214 \stycmd\_generate\_renew:NN \RenewDocStyledCMD \RenewDocumentCommand

215 \stycmd\_generate:NN \ProvideDocStyledCMD \ProvideDocumentCommand

(End definition for  $\Model{MD}$ ,  $\Model{MD}$ ,  $\Model{MD}$ , and  $\Model{MDD}$  and  $\Model{MDDD}$ . These functions are documented on page 3.)

\newstyledcmdExp
\renewstyledcmdExp
\providestyledcmdExp

Declare a new macro with the specified style name.

216 \stycmd\_generate:NNN \newstyledcmdExp \newcommand \stycmd\_expcmd:N

217 \stycmd\_generate\_renew:NN \renewstyledcmdExp \renewcommand

218 \stycmd\_generate:NNN \providestyledcmdExp \providecommand \stycmd\_expcmd:N

 $(\textit{End definition for } \texttt{\normalfine} p, \texttt{\normalfine} p, \texttt{\normalfine} and \texttt{\normalfine} providestyledcmdExp. These functions are documented on page $\frac{4}{4}$.)$ 

#### \AddCMDToGroup

Creates a group of commands

```
219
   \str_new:N \g__stycmd_grproxy_str
  \seq_new:N \g__stycmd_tmp_seq
   \seq_new:N \g__stycmd_tmpb_seq
   \proxy_create_gset:NnnN \g__stycmd_grproxy_str { stycmd }{ groups }
224
     \c_object_public_str
225
226
   \proxy_push_member:Vnn \g__stycmd_grproxy_str { commands }{ seq }
228
   \cs_generate_variant:Nn \seq_gconcat:NNN { ccN }
229
230
   \cs_new_protected:Nn \__stycmd_gconcat:nN
231
       \seq_gconcat:ccN { #1 }{ #1 } #2
234
235
   \cs_new_protected:Nn \__stycmd_addgroup:nn
236
237
       \object_if_exist:nF
238
239
           \object_address:nn{ stycmd }{ group - #1 }
240
         }
           \object_create:VnnNN \g__stycmd_grproxy_str
243
244
             { stycmd }
             { group - #1 }
245
             \c_object_global_str
246
             \c_object_public_str
247
248
```

```
\seq_gset_from_clist:Nn \g__stycmd_tmp_seq { #2 }
 250
                            \label{lem:cond_tmpb_seq get_map_x:NNn g_stycmd_tmpb_seq g_stycmd_tmp_seq} $$ \sum_{x \in \mathbb{Z}_{n}} x \cdot N^{n} \cdot g_{stycmd_tmpb_seq} $$ $$ \sum_{x \in \mathbb{Z}_{n}} x \cdot N^{n} \cdot g_{stycmd_tmpb_seq} $$ $$ $$ \sum_{x \in \mathbb{Z}_{n}} x \cdot N^{n} \cdot g_{stycmd_tmpb_seq} $$ $$ \sum_{x \in \mathbb{Z}_{n}} x \cdot N^{n} \cdot g_{stycmd_tmpb_seq} $$ $$ \sum_{x \in \mathbb{Z}_{n}} x \cdot N^{n} \cdot g_{stycmd_tmpb_seq} $$ $$ \sum_{x \in \mathbb{Z}_{n}} x \cdot N^{n} \cdot g_{stycmd_tmpb_seq} $$ $$ \sum_{x \in \mathbb{Z}_{n}} x \cdot N^{n} \cdot g_{stycmd_tmpb_seq} $$ $$ \sum_{x \in \mathbb{Z}_{n}} x \cdot N^{n} \cdot g_{stycmd_tmpb_seq} $$ $$ \sum_{x \in \mathbb{Z}_{n}} x \cdot N^{n} \cdot g_{stycmd_tmpb_seq} $$ $$ \sum_{x \in \mathbb{Z}_{n}} x \cdot N^{n} \cdot g_{stycmd_tmpb_seq} $$ $$ \sum_{x \in \mathbb{Z}_{n}} x \cdot N^{n} \cdot g_{stycmd_tmpb_seq} $$ $$ \sum_{x \in \mathbb{Z}_{n}} x \cdot N^{n} \cdot g_{stycmd_tmpb_seq} $$ $$ \sum_{x \in \mathbb{Z}_{n}} x \cdot G_{stycmd_tmpb_seq} $$ $$ \sum_{x \in \mathbb{Z}_{n}} x \cdot G_{stycmd_tmpb_seq} $$ \sum_{x \in \mathbb{Z}_{n}} x \cdot G_{
 251
 252
                                            \cs_to_str:N ##1
 253
 254
 255
                             \__stycmd_gconcat:nN
 256
                                     \object_member_adr:nnn
 258
                                                    \object_address:nn
 260
                                                           { stycmd }
 261
                                                            { group - #1 }
 262
 263
                                            { commands }
 264
                                            { seq }
 265
                                   } \g__stycmd_tmpb_seq
 266
                    }
            \cs_generate_variant:Nn \__stycmd_addgroup:nn { fn }
            \NewDocumentCommand{\AddCMDToGroup}{m m}
                                     _stycmd_addgroup:fn { \tl_trim_spaces:n{ #1 } } { #2 }
 274
 275
(End definition for \AddCMDToGroup. This function is documented on page 4.)
Change the default style for each command in the group.
            \NewDocumentCommand{\SetGroupStyle}{m m}
 276
 277
 278
                            \seq_map_inline:cn
 279
                                            \object_member_adr:nnn
                                                            \object_address:nn
                                                                   { stycmd }
 283
                                                                   { group - #1 }
 284
 285
                                                   { commands }
 286
                                                   { seq }
 287
                                   }
 288
                                   {
 289
                                                   _stycmd_setdef_style:nn{ ##1 }{ #2 }
 291
                    }
 292
(End definition for \SetGroupStyle. This function is documented on page 4.)
                Legacy commands
           \msg_new:nnnn{ styledcmd }{ stydep }{ Old-fashioned~groups~for~styled~commands~are~deprecated
 294
                    {
 295
```

249

```
From \verb|-version-2.0-of-styledcmd-you-should-use-new-group-commands-instea-of-old-ones, \verb|-see-commands-instea-of-old-ones|| for the styled composition of the styled composi
296
            }
297
       \verb|\str_new:N \ \g_stycmd_act_group_str|\\
       \str_new:N \g__stycmd_act_style_str
       \NewDocumentCommand{\styBeginGroup}{ m }
302
303
                 \msg_warning:nn{ styledcmd }{ stydep }
                 \str_gset:Nn \g__stycmd_act_group_str{ #1 }
307
       \NewDocumentCommand{\styEndGroup}{}
308
309
                  \msg_warning:nn{ styledcmd }{ stydep }
310
                 \str_gset:Nn \g__stycmd_act_group_str{}
311
312
313
       \NewDocumentCommand{\styBeginStyle}{ m }
                 \msg_warning:nn{ styledcmd }{ stydep }
316
                 \str_gset:Nn \g__stycmd_act_style_str{ #1 }
317
318
319
       \NewDocumentCommand{\styEndStyle}{}
320
321
                 \msg_warning:nn{ styledcmd }{ stydep }
322
                 \str_gset:Nn \g__stycmd_act_style_str{}
323
324
       \cs_generate_variant:Nn \__stycmd_addgroup:nn { Vn }
       \verb|\NewDocumentCommand{\newGstyledcmd}{m o m}|
328
329
                 \msg_warning:nn{ styledcmd }{ stydep }
330
                 \__stycmd_addgroup:Vn \g__stycmd_act_group_str { #1 }
331
                 \IfNoValueTF{ #2 }
332
334
                            \exp_args:NNV \newstyledcmd #1 \g__stycmd_act_style_str { #3 }
                      }
                      {
                            \exp_args:NNV \newstyledcmd #1 \g__stycmd_act_style_str [ #2 ] { #3 }
338
           }
339
340
       \NewDocumentCommand{\NewGDocStyledCMD}{m m m}
341
342
                 \msg_warning:nn{ styledcmd }{ stydep }
343
                 \__stycmd_addgroup: Vn \g__stycmd_act_group_str { #1 }
344
345
                 \exp_args:NNV \NewDocStyledCMD #1 \g__stycmd_act_style_str { #2 } { #3 }
          \NewDocumentCommand{\setGroupStyle}{m m}
348
              {
349
```