langsci-affiliations

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1 User guide

This package provides a command \ResolveAffiliations, which collects authoraffiliation pairs and outputs them according to the user configuration. It is aimed at class authors, i.e. maintainers of document templates in publishing houses, universities, etc. It is probably not that useful to document authors.

\ResolveAffiliations

 $\verb|\ResolveAffiliations|| \{\langle pairs \ of \ authors \ and \ affiliations \rangle\}|$

Takes the $\{\langle pairs\ of\ authors\ and\ affiliations\rangle\}$, orders them internally and outputs them according to the $[\langle options\rangle]$.

 $\{\langle Pairs\ of\ authors\ and\ affiliations\rangle\}$ is a list of authors and affiliations, where authors are separated by and and affiliations by ;. Affiliations are given within a phantom command \affiliation within the $\{\langle pairs\rangle\}$ argument – i.e. the command is not defined by this package and possibly existing definitions are left unchanged.

For example:

```
\ResolveAffiliations{
   A. U. Thor\affiliation{University of the Moon; University of Mars}
   and B. U. Thor\affiliation{University of Mars}
}
results in:
```

A. U. Thor^{a,b} & B. U. Thor^b
^aUniversity of the Moon ^bUniversity of Mars

The output can be customised using the $[\langle options \rangle]$. They are described below.

^{*}mailto:felix.kopecky@langsci-press.org. Please submit bug reports and feature requests to https://github.com/langsci/langsci-affiliations/issues.

\SetupAffiliations

 $\SetupAffiliations \{\langle options \rangle\}\$

Options can be set either globally or locally. With $\texttt{SetupAffiliations}\{\langle options \rangle\}$, they apply globally. If they are set with $\texttt{ResolveAffiliations}[\langle options \rangle]$, they apply locally.

mark style = $\langle style \rangle$

(initially alphabetic)

Controls which markers should be used in the indexes of affiliations. Can be a either of {alphabetic, numeric, circled, none}.

output affiliation = $\langle boolean \rangle$

(initially true)

Affiliations are output if true, otherwise not.

output in groups = $\langle boolean \rangle$

(initially true)

If true, authors and affiliations are output in the same line. When false each author and affiliation gets its own line. Only available if output affiliation=true.

output authors font = $\langle font \ commands \rangle$

(initially \Large)

Stores the font settings for the ouput of authors.

output affiliation font = $\langle font \ commands \rangle$

(initially \normalsize)

Stores the font settings for outputting affiliations.

Output separators between authors and affiliations are customisable as well:

separator between two = $\langle tokens \rangle$

(initially ~&~)

If there are only two authors, use these $\langle tokens \rangle$ to separate them.

separator between multiple = $\langle tokens \rangle$

(initially , \sim)

If there are more than two authors, use these $\langle tokens \rangle$ to separate every pair except the last one.

separator between final two = $\langle tokens \rangle$

(initially ~&~)

Use these $\langle tokens \rangle$ to separate the last pair of authors if ther are more than two.

separator between affiliations = $\langle tokens \rangle$

(initially,)

Use these to separate affiliations after each authors. The affiliations in the affiliation line are always separated by a space ().

The way the input is digested can be customised with these two settings:

input names separator = $\langle tokens \rangle$

(initially ~and~)

Separates the author names in the input.

input affiliation separator = $\langle tokens \rangle$

(intially;)

Separates the affiliations in the input, within dummy command \affiliation.

2 Implementation

```
1 (*package)
                         2 (00=affiliations)
                         3 \RequirePackage{xparse}
                         4 \ProvidesExplPackage {langsci-affiliations}
                         5 {2021-03-19} {1.0.2}
                         _{\rm 6} {A LaTeX3 package to collect and order authors and affiliations}
\ResolveAffiliations The top-level document command. It is grouped to keep assignments local.
                         7 \NewDocumentCommand{\ResolveAffiliations}{ O{} +m }
                               \group_begin:
                               \keys_set:nn { affiliations } { #1 }%
                        10
                               \exp_args:No \affiliations_resolve:n { #2 }%
                               \group_end:
                       (End definition for \ResolveAffiliations. This function is documented on page 1.)
  \SetupAffiliations
                       A command to define options.
                        14 \NewDocumentCommand{\SetupAffiliations}{ m }
                               \keys_set:nn { affiliations } { #1 }
                       (End definition for \SetupAffiliations. This function is documented on page 2.)
                        18 \keys_define:nn { affiliations }
                        20
                              mark~style .tl_set:N
                                   = \l_affiliations_style_tl,
                        21
                              mark~style .initial:n
                        22
                                   = { alphabetic },
                               output~affiliation .bool_set:N
                        24
                                   = \l_affiliations_output_affiliation_bool,
                        25
                               output~affiliation .initial:n
                        26
                                   = { true },
                               output~in~groups .bool_set:N
                                   = \l_affiliations_output_grouped_bool,
                        29
                               output~in~groups .initial:n
                        30
                                   = { true },
                        31
                               separator~between~two .tl_set:N
                        32
                                   = \l_affiliations_separator_between_two_tl,
                        33
                               separator~between~two .initial:n
                        34
                                   = \{ \sim \backslash \& \sim \},
                        35
                               separator~between~multiple .tl_set:N
                        36
                                   = \l_affiliations_separator_between_mult_tl,
                               separator~between~multiple .initial:n
                                   = {,~},
                               separator~between~final~two .tl_set:N
                        40
                                   = \l_affiliations_separator_between_last_two_tl,
                        41
                               separator~between~final~two .initial:n
                        42
                                   = {~\&~}.
                        43
                               separator~between~affiliations .tl_set:N
```

```
output~authors~font .cs_set:Np
                                48
                                           = \__affiliations_output_authors_font:,
                                49
                                       output~authors~font .initial:n
                                50
                                           = {\Large},
                                51
                                       output~affiliation~font .cs_set:Np
                                52
                                           = \__affiliations_output_affiliation_font:,
                                53
                                       output~affiliation~font .initial:n
                                54
                                55
                                           = {\normalsize},
                                       input~names~separator .tl_set:N
                                56
                                           = \l_affiliations_input_names_sep_tl,
                                57
                                       input~names~separator .initial:n
                                58
                                           = \{ \text{and} \},
                                59
                                       input~affiliation~separator .tl_set:N
                                60
                                           = \l_affiliations_input_afil_sep_tl,
                                61
                                       input~affiliation~separator .initial:n
                                62
                                           = {;}
                                63
                                     }
               \prop_put:Nxx
                               Internal variants and variables
               \prop_put:Nnx
          \seq_set_split:Nvn
                                66 \cs_generate_variant:Nn \prop_put:Nnn { Nxx }
 \l_affiliations_tmpa_clist
                                67 \cs_generate_variant:Nn \prop_put:Nnn { Nnx }
                                68 \cs_generate_variant:Nn \seq_set_split:Nnn { NVn }
   \l_affiliations_tmpa_int
                                69 \clist_new:N \l_affiliations_tmpa_clist
      \l affiliations affiliations seq
                                70 \int_new:N \l__affiliations_tmpa_int
\l_affiliations_authors_seq
                                71 \prop_new:N \l__affiliations_tmpa_prop
  \l_affiliations_names_seq
                                72 \sq_new:N \l_affiliations_affiliations_seq
   \l_affiliations_tmpa_seq
                                73 \seq_new:N \l__affiliations_authors_seq
   \l_affiliations_tmpb_seq
                                74 \seq_new:N \l__affiliations_names_seq
    \l_affiliations_tmpa_tl
                                75 \seq_new:N \l__affiliations_tmpa_seq
    \l_affiliations_tmpb_tl
                                76 \seq_new:N \l__affiliations_tmpb_seq
\l_affiliations_output_prop
                                77 \tl_new:N \l__affiliations_tmpa_tl
     \l_affiliations_affiliations_prop
                                78 \tl_new:N \l__affiliations_tmpb_tl
                                79 \prop_new:N \l__affiliations_output_prop
                                80 \prop_new:N \l__affiliations_affiliations_prop
                                (End definition for \prop_put:Nxx and others.)
                               The data for the circled mark style. Since this uses the \char, it is only available in
 \l_affiliations_icons_prop
                                XeLaTeX.
                                   \prop_const_from_keyval:Nn \l__affiliations_icons_prop
                                81
                                82
                                        0 = \frac{2460}{1} = \frac{2461}{2} = \frac{2462}{3} = \frac{2463}{3}
                                83
                                        4 = \frac{2464}{5} = \frac{2465}{6} = \frac{2466}{7} = \frac{2467}{6}
                                        8 = \frac{2468}{9} = \frac{2469}{10} = \frac{2468}{11} = \frac{2468}{11}
                                       12 = \frac{246C}{13} = \frac{246D}{14} = \frac{246E}{15} = \frac{246F}{15}
                                       16 = \char"2470, 17 = \char"2471, 18 = \char"2472, 19 = \char"2473
                                87
                                (End\ definition\ for\ \l_affiliations\_icons\_prop.)
```

= \l_affiliations_afil_separator_tl, separator~between~affiliations .initial:n

45

46

47

= {,},

89 \cs_new:Npn __affiliations_resolve_affiliations: #1#2 90 \clist_clear:N \l__affiliations_tmpa_clist 91 \tl_if_empty:nTF {#2} 92 93 \prop_put:Nnn \l__affiliations_output_prop {#1} {} 94 } 95 \seq_set_split:NVn \l__affiliations_tmpa_seq \l_affiliations_input_afil_sep_tl { #2 } gg \seq_map_inline:Nn \l__affiliations_tmpa_seq 100 { 101 \prop_get:NnNTF \l__affiliations_affiliations_prop 102 103 \l__affiliations_tmpa_tl 104 105 \clist_put_right:NV \l__affiliations_tmpa_clist \l_affiliations_tmpa_tl } 108 { 109 %Not yet present \clist_put_right:Nx \l__affiliations_tmpa_clist { \prop_count:N \l__affiliations_affiliations_prop 114 \prop_put:Nnx \l__affiliations_affiliations_prop {##1} 115 { \prop_count:N \l_affiliations_affiliations_prop } 116 } } \prop_put:NnV \l__affiliations_output_prop 119 **{#1**} 120 \l_affiliations_tmpa_clist } } $(End\ definition\ for\ _affiliations_resolve_affiliations:.)$ A helper macro that outputs the list of affiliations, usually below the list of authors. \ affiliations output affiliations: 124 \cs_new:Nn __affiliations_output_affiliations: 125 \prop_map_inline: Nn \l__affiliations_affiliations_prop 126 127 \int_set:Nn \l__affiliations_tmpa_int { ##2 } 128 \str_case_e:nn { \l__affiliations_style_tl } {alphabetic} 131 { \textsuperscript{\int_to_alph:n{ \int_eval:n \l__affiliations_tmpa_int + 1 } 134 135 } 136 {numeric} 137

A helper macro to order affiliations. Is called by \affiliations_resolve:n.

\ affiliations resolve affiliations:

```
{ \textsuperscript{\int_eval:n {\l__affiliations_tmpa_int + 1} } }
                           138
                                            {circled}
                           139
                                              {
                           140
                                                 \prop_item: Nn \l__affiliations_icons_prop
                           141
                                                                {\l_affiliations_tmpa_int}
                           142
                                              }
                           143
                                            {none} { }
                           144
                                         }
                           145
                                       \tl_rescan:nn {} {##1} ~
                           146
                           147
                                }
                           148
                           (End\ definition\ for\ \_affiliations\_output\_affiliations:.)
\ affiliations return afil text:n
                           A helper macro that returns the affiliation marks.
                              \cs_new:Npn \__affiliations_return_afil_text:n #1
                                   \int_set:Nn \l__affiliations_tmpa_int { #1 }
                                   \str_case_e:nn { \l__affiliations_style_tl }
                                       {alphabetic}
                           154
                           155
                                            \seq_put_right:Nx \l__affiliations_tmpb_seq
                           156
                                                                { \int_to_alph:n{ \int_eval:n {#1 + 1} } }
                           158
                                       {numeric}
                           159
                            160
                                            \seq_put_right:Nx \l__affiliations_tmpb_seq
                            161
                            162
                                                                { \int_eval:n {\l_affiliations_tmpa_int + 1} }
                                         }
                                       {circled}
                            165
                                            \seq_put_right:Nx \l__affiliations_tmpb_seq
                           166
                                                                { \prop_item: Nn \l_affiliations_icons_prop
                           167
                                                                                 { \l_affiliations_tmpa_int} }
                           168
                           169
                                       {none} { }
                           170
                           171
                                 }
                           (End definition for \__affiliations_return_afil_text:n.)
  \_affiliations_output_authors:
                           A helper macro to output the list of authors, with affiliation marks (if any).
                           173 \cs_new:Nn \__affiliations_output_authors:
                           174
                                   \seq_clear:N \l__affiliations_tmpa_seq
                           175
                                   \prop_map_inline: Nn \l__affiliations_output_prop
                           176
                                       \seq_clear:N \l__affiliations_tmpb_seq
                                       \clist_map_function:nN {##2} \__affiliations_return_afil_text:n
                                       \tl_set:Nn \l__affiliations_tmpb_tl
                           180
                           181
                                            \seq_use: Nn \l__affiliations_tmpb_seq
                           182
                                                         {\l_affiliations_afil_separator_tl}
                           183
                                         }
                           184
```

```
\seq_put_right:Nx \l__affiliations_tmpa_seq
                          185
                                       {
                          186
                                         \tl_rescan:nn {} {##1}
                          187
                                         \exp_not:N \textsuperscript{\tl_use:N \l__affiliations_tmpb_tl}
                          188
                          189
                                   }
                          190
                                 \seq_use:Nnnn \l__affiliations_tmpa_seq
                          191
                                                  {\l__affiliations_separator_between_two_tl}
                          192
                                                  {\l_affiliations_separator_between_mult_tl}
                          193
                                                  {\l_affiliations_separator_between_last_two_tl}
                          194
                               }
                          (End definition for \ affiliations output authors:.)
                         The main macro.
\affiliations_resolve:n
                             \cs_new:Npn \affiliations_resolve:n #1
                               {
                          197
                                 \seq_set_split:NVn \l__affiliations_names_seq
                          198
                                                     \l_affiliations_input_names_sep_tl
                          199
                                                     { #1 }
                          200
                                 \seq_map_inline: Nn \l__affiliations_names_seq
                                     \seq_clear_new:N \l__affiliations_names_tmp_seq
                                     \seq_set_split:\nn \l__affiliations_names_tmp_seq { \affiliation }
                                                         { ##1 }
                                     \prop_put:Nxx \l__affiliations_tmpa_prop
                                     { \seq_item: Nn \l__affiliations_names_tmp_seq {1} }
                          207
                                     { \sec_item: Nn l_affiliations_names_tmp_seq {2} }
                          208
                          209
                                 \bool_if:NTF \l__affiliations_output_affiliation_bool
                                     \bool_if:NTF \l__affiliations_output_grouped_bool
                          214
                                         \prop_map_function:NN \l__affiliations_tmpa_prop
                                                                \group_begin:
                                            \__affiliations_output_authors_font:
                                           \__affiliations_output_authors:
                          218
                                         \group_end:\\[0.5ex]
                          219
                                         \group_begin:
                                            \__affiliations_output_affiliation_font:
                                           \__affiliations_output_affiliations:
                                         \group_end:
                                       }
                          224
                          225
                                         \seq_clear:N \l__affiliations_tmpa_seq
                                         \prop_map_inline: Nn \l__affiliations_tmpa_prop
                          227
                          228
                                             \seq_put_right:Nx \l__affiliations_tmpa_seq
                          229
                          230
                                                  \group_begin:
                          231
                                                    \exp_not:N \__affiliations_output_authors_font:
                                                    \tilde{f} = \frac{1}{n} {\#1} \ [0.5ex]
                                                  \group_end:
```

```
\group_begin:
235
                           \exp_not:N \__affiliations_output_affiliation_font:
236
                           \tl_rescan:nn {} {##2}
237
                         \group_end:
238
                      }
239
                  }
240
                \seq_use:Nnnn \l__affiliations_tmpa_seq
241
                                 {\l_affiliations_separator_between_two_tl}
242
                                 {\l_affiliations_separator_between_mult_tl}
243
                                 {\tt \{\l_affiliations\_separator\_between\_last\_two\_tl\}}
244
              }
245
         }
246
247
            \group_begin:
248
            \__affiliations_output_authors_font:
249
            \seq_clear:N \l__affiliations_tmpa_seq
250
            \prop_map_inline: Nn \l__affiliations_tmpa_prop
251
252
                \seq_put_right:Nx \l__affiliations_tmpa_seq
                                   {\tl_rescan:nn {} {##1} }
              }
            \verb|\seq_use:Nnnn \l|\_affiliations_tmpa_seq|
256
                             257
                             {\l_affiliations_separator_between_mult_tl}
258
                             {\tt \{\l_affiliations\_separator\_between\_last\_two\_tl\}}
259
260
            \group_end:
         }
261
     }
262
(End\ definition\ for\ \verb|\affiliations_resolve:n.|)
263 (/package)
```