

1 Package header

```
1 \*package>  
2 \@@=yoin>
```

Necessary packages: First, L^AT_EX3 stuff.

```
3 \RequirePackage{expl3,l3keys2e,l3regex,xparse}
```

From zref bundle, for computing the total number of pages of an article.

```
4 \RequirePackage{zref-totpages}
```

We need the absolute paths. This also means we need `-recorder` option to `pdflatex`.

```
5 \RequirePackage[abspath]{currfile}
```

For including PDF files.

```
6 \RequirePackage{pdfpages}
```

Package header.

```
7 \ProvidesExplPackage{yoin}{2016/02/28}{v0.0.1}{Joining articles into issues}
```

2 General macros

Macros not necessarily related to the package; moreorless an addition to L^AT_EX3.

`\yoin_seq_gappend_clist:Nn` Globally append `clist` #2 to `seq` #1.

```
8 \seq_new:N \l__yoin_seq_tmpa_seq  
9 \cs_new_protected:Nn \yoin_seq_gappend_clist:Nn {  
10   \seq_set_from_clist:Nn \l__yoin_seq_tmpa_seq { #2 }  
11   \seq_gconcat:NNN #1 #1 \l__yoin_seq_tmpa_seq  
12 }
```

`\yoin_keys_set_from_file:nn` Read a file #2 containing a key–value list and set the keys for #1. No checks are done here, nothing like comments could be used, the keys should be separated by a comma (and spaces of course as needed).

```
13 \tl_new:N \l__yoin_keys_tmpa_tl  
14 \cs_generate_variant:Nn \keys_set:nn { nV }  
15 \cs_new_protected:Nn \yoin_keys_set_from_file:nn {  
16   \tl_set_from_file:Nnn \l__yoin_keys_tmpa_tl { } { #2 }  
17   \keys_set:nV { #1 } \l__yoin_keys_tmpa_tl  
18 }
```

`\yoin_keyval_parse_from_file:nn` Read a file #2 containing a key–value list and set the keys for #1. No checks are done here, nothing like comments could be used, the keys should be separated by a comma (and spaces of course as needed).

```
19 \cs_generate_variant:Nn \keyval_parse:NNn { NNV }  
20 \cs_new_protected:Nn \yoin_keyval_parse_from_file:NNn {
```

```

21  \tl_set_from_file:Nnn \l__yoin_keys_tmpa_tl { } { #3 }
22  \keyval_parse:NNV #1 #2 \l__yoin_keys_tmpa_tl
23 }

```

msg: boolean-values-only Message for a non-boolean passed to a bool key.

```

24 \msg_new:nnn { yoin } { boolean-values-only }
25   { Key ~ '#1' ~ accepts ~ boolean ~ values ~ only.}

```

3 Key-value interface for the package setup

First, we define the variables to store the keys.

```

\g_yoin_subprocess_bool  Booleans:
  \g_yoin_article_bool  26 \bool_new:N \g_yoin_subprocess_bool
  \g_yoin_dryrun_bool   27 \bool_new:N \g_yoin_article_bool
\g_yoin_onlyflags_bool  28 \bool_new:N \g_yoin_dryrun_bool
  \g_yoin_onlytags_bool  29 \bool_new:N \g_yoin_onlyflags_bool
                        30 \bool_new:N \g_yoin_onlytags_bool

```

```

  \g_yoin_flags_seq      Sequences for flags, tags and their filtering:
  \g_yoin_tags_seq       31 \seq_new:N \g_yoin_flags_seq
\g_yoin_onlyflags_seq    32 \seq_new:N \g_yoin_tags_seq
  \g_yoin_onlytags_seq   33 \seq_new:N \g_yoin_onlyflags_seq
                        34 \seq_new:N \g_yoin_onlytags_seq

```

\g_yoin_jobname_tl We can modify what the package considers as the value of \jobname, here's a token list for that:

```

35 \tl_new:N \g_yoin_jobname_tl
36 \tl_gset_eq:NN \g_yoin_jobname_tl \c_job_name_tl

```

msg: unknown-flag Two messages, for unknown flags and unknown tags.

```

msg: unknown-tag 37 \msg_new:nnnn { yoin } { unknown-flag }
                  38   { The ~ flag ~ '#1' ~ is ~ unknown ~ to ~ 'yoin'. }
                  39   { You ~ either ~ misspelled ~ it ~ or ~forgot ~ to ~ declare ~ it. }

                  40 \msg_new:nnnn { yoin } { unknown-tag }
                  41   { The ~ tag ~ '#1' ~ is ~ unknown ~ to ~ 'yoin'. }
                  42   { You ~ either ~ misspelled ~ it ~ or ~forgot ~ to ~ declare ~ it. }

```

```

\yoin_if_tag_defined:n Conditionals for checking whether a tag/flag was defined.
\yoin_if_flag_defined:n 43 \prg_new_protected_conditional:Nnn \yoin_if_tag_defined:n { T, F, TF } {
44   \seq_if_in:NnTF \g_yoin_tags_seq { #1 } { \prg_return_true: } { \prg_return_false: }
45 }

46 \prg_new_protected_conditional:Nnn \yoin_if_flag_defined:n { T, F, TF } {
47   \seq_if_in:NnTF \g_yoin_flags_seq { #1 } { \prg_return_true: } { \prg_return_false: }
48 }

```

```

\_yoin_error_if_tag_undefined:n Check whether a tag/flag is defined, if not, issue an error.
\_yoin_error_if_flag_undefined:n 49 \cs_new_protected:Nn \_yoin_error_if_tag_undefined:n {
50   \yoin_if_tag_defined:nF { #1 } { \msg_error:nnn { yoin } { unknown-tag } { #1 } }
51 }

52 \cs_new_protected:Nn \_yoin_error_if_flag_undefined:n {
53   \yoin_if_flag_defined:nF { #1 } { \msg_error:nnn { yoin } { unknown-flag } { #1 } }
54 }

```

yoin / general The keys themselves:

```

55 \keys_define:nn { yoin / general } {
Booleans:
56   dryrun .bool_gset:N = \g_yoin_dryrun_bool,
57   dryrun .initial:n = { false },

58   article .bool_gset:N = \g_yoin_article_bool,
59   article .initial:n = { false },

60   subprocess .bool_gset:N = \g_yoin_subprocess_bool,
61   subprocess .initial:n = { false },

Keys whose clist values are appended to a seq:
62   defineflags .code:n = \yoin_seq_gappend_clist:Nn \g_yoin_flags_seq { #1 },

63   definetags .code:n = \yoin_seq_gappend_clist:Nn \g_yoin_tags_seq { #1 },

```

A clist key is stored in a seq, also, a corresponding bool is set true. (The point is, if onlyflags/onlytags is not ever set up, we want to know it since we treat it as if we use all flags/tags.)

```

64   onlyflags .code:n =
65     \seq_gset_from_clist:Nn \g_yoin_onlyflags_seq { #1 }
66     \bool_gset_true:N \g_yoin_onlyflags_bool
67   ,

```

```

68   onlytags .code:n =
69     \seq_gset_from_clist:Nn \g_yoin_onlytags_seq { #1 }
70     \bool_gset_true:N \g_yoin_onlytags_bool
71     ,

```

A key whose value is stored in a token list.

```

72   jobname .tl_gset:N = \g_yoin_jobname_tl,

73 % A key that allows |\yoinMeta| to be called from within the package options.
74 %   \begin{macrocode}
75   meta .code:n = \yoin_yoinmeta:n { #1 },

76 }

```

`\ProcessKeysPackageOptions` Process key options given to the package. We *do not want to process any options given to the class*. Whence `\ProcessKeysPackageOptions` and not `\ProcessKeysOptions`.

```

77 \ProcessKeysPackageOptions { yoin / general }

```

`\yoin_setup:n` Allow keys to be set later. We define both a \LaTeX 3 interface and an xparse UI wrapper.

```

\yoinSetup
78 \cs_new_protected:Nn \yoin_setup:n {
79   \keys_set:nn { yoin / general } { #1 }
80 }

81 \NewDocumentCommand \yoinSetup { R[]{} } {
82   \yoin_setup:n { #1 }
83 }

```

4 yoinMeta macro — adding issue's

```

\yoinMeta
\yoin_yoinmeta:n
84 \prop_new:N \l__yoin_yoinmeta_prop
85 \cs_new_protected:Nn \__yoin_yoinmeta_storekey:nn {
86   \prop_put:Nnn \l__yoin_yoinmeta_prop { #1 } { #2 }
87 }
88 \cs_new_protected:Nn \__yoin_yoinmeta_storekey:n {
89   \prop_put:Nnn \l__yoin_yoinmeta_prop { #1 } { }
90 }
91 \cs_new_protected:Nn \yoin_yoinmeta:n {
92   \keyval_parse:NNn \__yoin_yoinmeta_storekey:n \__yoin_yoinmeta_storekey:nn { #1 }

```

```

93 }
94 \NewDocumentCommand \yoinMeta { R[]{} } {
95   \yoin_yoinmeta:n { #1 }
96 }

```

5 yoinAdd macro — adding articles to the issue

The key–value interface. In this case, we basically only store the keys for each article in a prop. First, an interface for setting the keys for the articles. `\yoin_yoinadd_prop:n` returns the name of the prop for the given article; *no check for existence is done at this place*.

```

\g_yoin_yoinadd_seq A sequence for storing the list of the existing articles.
97 \seq_new:N \g_yoin_yoinadd_seq

\yoin_yoinadd_prop:n \yoin_yoinadd_prop:n returns the name of the prop for the given article; no check for existence is done at this place.
\yoin_yoinadd_prop:V \yoin_yoinadd_prop:nn returns property \#2 of article \#1, or \q_no_value if the property is not set.
\yoin_yoinadd_prop_item:nn 98 \cs_new:Nn \yoin_yoinadd_prop:n {
\yoin_yoinadd_prop_item:Vn 99   g__yoin_article_#1_prop
100 }
101 \cs_generate_variant:Nn \yoin_yoinadd_prop:n { V }

102 \cs_new:Nn \yoin_yoinadd_prop_item:nn {
103   \prop_item:cn { \yoin_yoinadd_prop:n { #1 } } { #2 }
104 }
105 \cs_generate_variant:Nn \yoin_yoinadd_prop_item:nn { V }

```

For processing `\yoinAdd`, we first set up a `tl` to contain the name of the article, then create the prop, and finally use `l3keys` to fill in the prop. Note that if an article is added twice, an error is issued, if the error is ignored, the article is not added but the properties are set.

```

\l__yoin_yoinadd_currentarticle_tl A tl that stores the name of the article that is being processed by \yoinAdd.
106 \tl_new:N \l__yoin_yoinadd_currentarticle_tl

__yoin_yoinadd_storekey:nn Internal macro for storing a key in the prop. The one-parameter variant sets the value of the key empty.
__yoin_yoinadd_storekey:n 107 \cs_new_protected:Nn \__yoin_yoinadd_storekey:nn {
108   \prop_gput:cnn { \yoin_yoinadd_prop:V \l__yoin_yoinadd_currentarticle_tl } { #1 } { #2 }
109 }
110 \cs_new_protected:Nn \__yoin_yoinadd_storekey:n {
111   \prop_gput:cnn { \yoin_yoinadd_prop:V \l__yoin_yoinadd_currentarticle_tl } { #1 } { }
112 }

```

`\yoin_yoinadd:nn` The macro `\yoinAdd` itself. We first set `\l_@@_yoinadd_currentarticle_tl`, then check whether the same article has not been processed before (issuing an error in that case and finishing). Then, the article is added in `\g_yoin_yoinadd_seq`, the prop created, the article's name added in the prop with key `article` and the keys are set. If the article has a `.yoin` file in its sub-directory, the key-values in it is added to the prop. If the file does not exist, it means things are wrong (the article should first be set up, before being added to its issue by `\yoinAdd`).

```

113 \cs_new_protected:Nn \yoin_yoinadd:nn {
114   \tl_set:Nn \l__yoin_yoinadd_currentarticle_tl { #1 }
115   \seq_if_in:NnTF \g_yoin_yoinadd_seq { #1 } {
116     \msg_error:nnn { yoin } { yoinadd-duplicatearticle } { #1 }
117   } {
118     \seq_gput_right:Nn \g_yoin_yoinadd_seq { #1 }
119     \prop_new:c { \yoin_yoinadd_prop:n { #1 } }
120     \clist_map_inline:nn { forceopenany, forceopenright, ignore } {
121       \__yoin_yoinadd_storekey:nn { ##1 } { 0 }
122     }
123     \__yoin_yoinadd_storekey:nn { article } { #1 }
124     \keys_set:nn { yoin / yoinadd } { #2 }
125     \file_if_exist:nTF { #1 / #1 .yoin } {
126       \yoin_keyval_parse_from_file:NNn
127         \__yoin_yoinadd_storekey:n
128         \__yoin_yoinadd_storekey:nn
129         { #1 / #1 .yoin }
130     } {
131       \msg_error:nnn { yoin } { yoinadd-dotyoinmissing } { #1 }
132     }
133   }
134 }

135 \NewDocumentCommand \yoinAdd { m O{} } {
136   \yoin_yoinadd:nn { #1 } { #2 }
137 }

```

`msg: yoinadd-duplicatearticle` The error messages: for adding a duplicate article and for adding an article with no `#1/#1.yoin` file.

```

msg: yoinadd-dotyoinmissing 138 \msg_new:nnn { yoin } { yoinadd-duplicatearticle }
                             139   { The ~ article ~ "#1" ~ has ~ been ~ already ~ processed ~ by ~ \token_to_str:N \yoinAdd ~.}
                             140 \msg_new:nnn { yoin } { yoinadd-dotyoinmissing }
                             141   { The ~ article ~ "#1" ~ has ~ no ~ file ~ "#1/#1.yoin" ~ and ~ was ~ not ~ properly ~ set ~ up.}

```

`yoin / yoinadd` The keys here are pretty simple; each defined key just stores its value in the prop. We recall that `\#1` is the key and `\#\#1` is the value.

```

142 \clist_map_inline:nn { textualkey } {
143   \keys_define:nn { yoin / yoinadd } {
144     #1 .code:n = \__yoin_yoinadd_storekey:nn { #1 } { ##1 },
145   }
146 }

```

For boolean keys, we create a manual boolean parser.

```

147 \clist_map_inline:nn { forceopenany, forceopenright, ignore } {
148   \keys_define:nn { yoin / yoinadd } {
149     #1 .choice:,
150     #1 / true .code:n = \__yoin_yoinadd_storekey:nn { #1 } { 1 },
151     #1 / false .code:n = \__yoin_yoinadd_storekey:nn { #1 } { 0 },
152     #1 / unknown .code:n = \msg_error:nnx { yoin } { boolean-values-only } { \l_keys_key_tl },
153   }
154 }

```

However, for the tag key, we additionally check that the tag exists.

```

155 \keys_define:nn { yoin / yoinadd } {
156   tag .code:n =
157     \__yoin_error_if_tag_undefined:n { #1 }
158     \__yoin_yoinadd_storekey:nn { tag } { #1 }
159   ,
160 }

```

6 Environment yoinshell

`\l_yoin_yoinshell_ignore_bool` A boolean for storing the ignore key's value.

`yoin / yoinshell` Key-value interface to yoinshell.

```

161 \keys_define:nn { yoin / yoinshell } {

```

If flag is set and onlyflags is set but the flag is not amongst them, the whole yoinshell is ignored (by setting the ignore key).

```

162   flag .code:n =
163     \__yoin_error_if_flag_undefined:n { #1 }
164     \bool_if:NT \g_yoin_onlyflags_bool {
165       \seq_if_in:NnF \g_yoin_onlyflags_seq { #1 } {
166         \keys_set:nn { yoin / yoinshell } {
167           ignore = true
168         }
169       }

```

```

170     }
171     ,
    The ignore key sets a boolean
172     ignore .bool_set:N = \l_yoin_yoinshell_ignore_bool,
173     ignore .initial:n = { false },
174 }

```

`shellesc.sty` A reasonable shell escape that should work in both pdf_latex and lua_latex in T_EX Live 2016.

```

\ShellEscape 175 \file_if_exist:nTF { shellesc.sty } {
\__yoin_yoinshell_shellescape:n 176   \RequirePackage { shellesc }
177 } {
178   \def \ShellEscape #1 { \immediate \write 18 { #1 } }
179 }
180 \cs_new_protected:Nn \__yoin_yoinshell_shellescape:n {
181   \ShellEscape { #1 }
182 }

```

`__yoin_yoinshell_begin:n` Environment yoinshell (one key–value argument). We perform some local definitions that should stay local, so we put everything in a group. The keys are set. Then we define the macros — “shell commands”. If ignore is set or if subprocess is passed to the package, these macros are declared to do nothing, otherwise they are simply wrappers to the L^AT_EX3 counterparts.

```

183 \cs_new_protected:Nn \__yoin_yoinshell_begin:n {
184   \group_begin:
185   \keys_set:nn { yoin / yoinshell } { #1 }
186   \bool_if:NT \g_yoin_subprocess_bool {
187     \bool_set_true:N \l_yoin_yoinshell_ignore_bool
188   }
189   \bool_if:NTF \l_yoin_yoinshell_ignore_bool {
190     \DeclareDocumentCommand \RunForEach { 0{} m } { }
191     \DeclareDocumentCommand \Run { 0{} m } { }
192     \DeclareDocumentCommand \WriteMeta { 0{} } { }
193   } {
194     \DeclareDocumentCommand \RunForEach { 0{} m } { \yoin_yoinshell_runforeach:nn { ##1 } { ##2 } }
195     \DeclareDocumentCommand \Run { 0{} m } { \yoin_yoinshell_run:nn { ##1 } { ##2 } }
196     \DeclareDocumentCommand \WriteMeta { 0{} } { \yoin_yoinshell_writemeta:n { ##1 } }
197     \yoin_yoinshell_writemeta:n { }
198   }
199 }

```



```

200 \cs_new_protected:Nn \__yoin_yoinshell_end: {
201   \group_end:
202 }

203 \NewDocumentEnvironment { yoinshell } { 0{ } } {
204   \__yoin_yoinshell_begin:n { #1 }
205 } {
206   \__yoin_yoinshell_end:
207 }

```

6.1 RunForEach

\l__yoin_yoinshell_runforarticle_tag_tl First, two tls that will store tags: One for the tag of the article, one that could be passed to \RunForEach that is initially set to \l__yoin_yoinshell_runforeach_onlytag_tl \q_no_value.

```

208 \tl_new:N \l__yoin_yoinshell_runforarticle_tag_tl
209 \tl_new:N \l__yoin_yoinshell_runforeach_onlytag_tl
210 \tl_set:Nn \l__yoin_yoinshell_runforeach_onlytag_tl { \q_no_value }

```

yoin / runforeach So far, the only key–val passable to \RunForEach is onlytag, which tests for the tag to be declared and passes it to \l__yoin_yoinshell_runforeach_onlytag_tl

```

211 \keys_define:nn { yoin / runforeach } {
212   onlytag .code:n =
213     \__yoin_error_if_tag_undefined:n { #1 }
214     \tl_set:Nn \l__yoin_yoinshell_runforeach_onlytag_tl { #1 }
215   ,
216 }

```

__yoin_yoinshell_runforarticle_keyfromprop:nnN This macro lets #3 to the value of property #2 of article #1. It makes it an empty definition if the property is unset.

```

217 \tl_new:N \l__yoin_yoinshell_runforarticle_tmpa_tl
218 \cs_new_protected:Nn \__yoin_yoinshell_runforarticle_keyfromprop:nnN {
219   \prop_get:cnN { \yoin_yoinadd_prop:n { #1 } } { #2 } \l__yoin_yoinshell_runforarticle_tmpa_tl
220   \quark_if_no_value:NTF \l__yoin_yoinshell_runforarticle_tmpa_tl {
221     \def #3 {}
222   } {
223     \let #3 \l__yoin_yoinshell_runforarticle_tmpa_tl
224   }
225 }

```

_yoin_yoinshell_runforeach:nn \RunForEach itself just sets the keys (in a group to make things local) and then calls \@@_yoinshell_runforarticle:nn on each article.

```

226 \cs_new_protected:Nn \yoin_yoinshell_runforeach:nn {
227   \group_begin:
228   \keys_set:nn { yoin / runforeach } { #1 }
229   \seq_map_inline:Nn \g_yoin_yoinadd_seq { \_yoin_yoinshell_runforarticle:nn { ##1 } { #2 } }
230   \group_end:
231 }

```

_yoin_yoinshell_runforarticle:nn If the tag passed to onlytag of \RunForEach is identical to the tag of the article or if any of them is not set, we do what should be done, otherwise nothing is done (the tags do not match). We only extract the prop to publically available macros like \Article, \Jobname etc. (in a group to make this local), and then run the command in shell escape.

```

232 \cs_new_protected:Nn \_yoin_yoinshell_runforarticle:nn {
233   \prop_get:cnN { \yoin_yoinadd_prop:n { #1 } } { tag } \l__yoin_yoinshell_runforarticle_tag_tl
234   \bool_if:nT {
235     \quark_if_no_value_p:N \l__yoin_yoinshell_runforarticle_tag_tl
236     ||
237     \quark_if_no_value_p:N \l__yoin_yoinshell_runforeach_onlytag_tl
238     ||
239     \tl_if_eq_p:NN \l__yoin_yoinshell_runforeach_onlytag_tl \l__yoin_yoinshell_runforarticle_tag_tl
240   }{
241     \group_begin:
242     \_yoin_yoinshell_runforarticle_keyfromprop:nnN { #1 } { article } \Article
243     \_yoin_yoinshell_runforarticle_keyfromprop:nnN { #1 } { jobname } \Jobname
244     \_yoin_yoinshell_runforarticle_keyfromprop:nnN { #1 } { firstpage } \FirstPage
245     \_yoin_yoinshell_shellescape:n { #2 }
246     \group_end:
247   }
248 }

```

6.2 Run

_yoin_yoinshell_run:nn

```

249 \cs_new_protected:Nn \yoin_yoinshell_run:nn {
250   \group_begin:
251   \keys_set:nn { yoin / run } { #1 }
252   \let \Jobname \c_job_name_tl
253   \_yoin_yoinshell_shellescape:n { #2 }
254   \group_end:

```

255 }

6.3 WriteMeta

_yoin_yoinshell_writemeta:n

```
256 \iow_new:N \g__yoin_yoinshell_iow
257 \cs_new_protected:Nn \yoin_yoinshell_writemeta:n {
258   \group_begin:
259   \yoin_yoinmeta:n { #1 }
260   \iow_open:Nn \g__yoin_yoinshell_iow { \g_yoin_jobname_tl .yoin }
261   \prop_map_inline:Nn \l__yoin_yoinmeta_prop {
262     \iow_now:Nn \g__yoin_yoinshell_iow { meta-##1 ~ = ~ ##2, }
263   }
264   \iow_close:N \g__yoin_yoinshell_iow
265   \group_end:
266 }
```

7 Article setting stuff (undocumented)

Information to be stored in an auxiliary file.

```
267 \cs_new_protected:Nn \__yoin_article_write_keyval:nn {
268   \iow_now:Nn \g__yoin_article_dotyoin_iow { #1 ~ = ~ #2 , }
269 }
270 \cs_generate_variant:Nn \__yoin_article_write_keyval:nn { nx, nV }
271
272 \cs_new_protected:Nn \yoin_article_write_meta:nn {
273   \__yoin_article_write_keyval:nn { article-#1 } { #2 }
274 }
275
276 \cs_new_protected:Nn \yoin_article_writekeys: {
277   \__yoin_article_write_keyval:nV { jobname } \c_job_name_tl
278   \__yoin_article_write_keyval:nx { totpages } { \ztotpages }
279   \__yoin_article_write_keyval:nV { currrdir } \l_yoin_article_currrdir_tl
280   \__yoin_article_write_keyval:nx { firstpage } { \int_use:N \l_yoin_article_firstpage_int }
281 }
282
283 \prop_new:N \l__yoin_article_readkeys_prop
284
```

```

285 \cs_new_protected:Nn \yoin_article_set_readkey:nn {
286   \prop_put:Nnn \l__yoin_article_readkeys_prop { #1 } { #2 }
287 }
288 \cs_generate_variant:Nn \yoin_article_set_readkey:nn { Vn }
289
290 \int_new:N \l_yoin_article_firstpage_int
291 \int_set:Nn \l_yoin_article_firstpage_int { 1 }
292
293 \keys_define:nn { yoin / toarticle } {
294   firstpage .code:n =
295     \int_set:Nn \l_yoin_article_firstpage_int { #1 }
296     \yoin_article_set_readkey:nn { firstpage } { #1 }
297   ,
298
299   parent .code:n =
300     \file_if_exist:nT { ../ #1 .yoin } {
301       \yoin_keys_set_from_file:nn { yoin / toarticle } { ../ #1 .yoin }
302     }
303     \yoin_article_set_readkey:nn { parent } { #1 }
304   ,
305
306   unknown .code:n =
307     \yoin_article_set_readkey:Vn \l_keys_key_tl { #1 }
308   ,
309 }
310
311 \bool_new:N \g__yoin_article_readkeys_bool
312 \bool_gset_true:N \g__yoin_article_readkeys_bool
313
314 \cs_new_protected:Nn \yoin_article_readkeys: {
315   \bool_if:NT \g__yoin_article_readkeys_bool {
316     \file_if_exist:nT { ../ \l_yoin_article_currdir_tl .yoin1 } {
317       \yoin_keys_set_from_file:nn { yoin / toarticle } { ../ \l_yoin_article_currdir_tl .yoin1 }
318     }
319   }
320   \bool_gset_false:N \g__yoin_article_readkeys_bool
321 }
322
323 \cs_new:Nn \yoin_article_meta:n {
324   \prop_item:Nn \l__yoin_article_readkeys_prop { meta-#1 }

```

```

325 }
326
327 \NewDocumentCommand \yoinArticleMeta { m } {
328   \yoin_article_meta:n { #1 }
329 }
330
331 \tl_new:N \l__yoin_article_tmpa_tl
332 \seq_new:N \l__yoin_article_tmpa_seq
333 \tl_new:N \l_yoin_article_currdir_tl
334 \cs_generate_variant:Nn \regex_extract_once:nnN { nV }
335 \cs_new_protected:Nn \yoin_article_getcurrdir:N {
336   \tl_set:Nx \l__yoin_article_tmpa_tl { \currfileabsdir }
337   \regex_extract_once:nVN { /([~/]+)/\Z } \l__yoin_article_tmpa_tl \l__yoin_article_tmpa_seq
338   \seq_get_right:NN \l__yoin_article_tmpa_seq #1
339 }
340
341 \iow_new:N \g__yoin_article_dotyoin_iow
342 \bool_if:NT \g_yoin_article_bool {
343   \yoin_article_getcurrdir:N \l_yoin_article_currdir_tl
344   \iow_open:Nn \g__yoin_article_dotyoin_iow { \l_yoin_article_currdir_tl .yoin }
345   \yoin_article_readkeys:
346   \AtBeginDocument {
347     \setcounter { page } { \l_yoin_article_firstpage_int }
348     \yoin_article_writekeys:
349   }
350 }

```

8 yoinProcess (undocumented)

`msg: forceopenanyright` Error message for an article having both `forceopenany` and `forceopenright` set.

```

351 \msg_new:nnn { yoin } { forceopenanyright }
352   { The ~ article ~ '#1' ~ has ~ both ~ 'forceopenany' ~ and ~ 'forceopenright' ~ keys ~ set. }

```

`\yoin_yoinprocess:n` The key macro of the package, to some sense. It takes care of the page numbering of the articles, proper placement of stuff in twoside environment, etc.

```

353 \cs_new_protected:Nn \yoin_yoinprocess:n {
  Set the appropriate keys (this may be changed later and moved to yoin/general keys.
354   \keys_set:nn { yoin / yoinprocess } { #1 }

```

Finish the current page if it's started.

```
355 \clearpage
```

Go to the right page number. This depends on two parameters, cleardoublepage and setpagenumber, the dependence is explained in each of the 4 cases.

```
356 \bool_if:NTF \l__yoin_yoinprocess_cleardoublepage_bool {
357   \bool_if:NTF \l__yoin_yoinprocess_setpagenumber_bool {
```

Case cleardoublepage, setpagenumber. In this case, an empty page is added as necessary to keep the parity of page numbers. For instance, if setpagenumber=110 and last page number is 4, an empty page is added so that there are no two consecutive even pages. The check is on the parity of the sum of the two numbers. The macro __yoin_yoinprocess_clearonepage: uses the code of L^AT_EX 2_ε's \cleardoublepage for creating the necessary empty page.

```
358     \int_if_odd:nT { \value { page } + \l__yoin_yoinprocess_setpagenumber_int } {
359       \__yoin_yoinprocess_clearonepage:
360     }
361     \setcounter { page } { \int_use:N \l__yoin_yoinprocess_setpagenumber_int }
362   } {
```

Case cleardoublepage, nosetpagenumber. We simply do a cleardoublepage. Note that __yoin_yoinprocess_cleardoublepage: modifies the value of \g_@@_page_int in a useless way at this place, but we will override the value anyway.

```
363     \__yoin_yoinprocess_cleardoublepage:
364   }
365 } {
```

Case nocleardoublepage, setpagenumber. We simply set the page number.

```
366   \bool_if:NTF \l__yoin_yoinprocess_setpagenumber_bool {
367     \setcounter { page } { \int_use:N \l__yoin_yoinprocess_setpagenumber_int }
368   } {
```

Case nocleardoublepage, nosetpagenumber. No adjustment is needed in this case.

```
369     \prg_do_nothing:
370   }
371 }
```

Here, the loop through the articles starts. First, set the internal counter for the page number; this is necessary because if the output of the process is suppressed by the key output=false, we need to keep track of the page number manually.

```
372 \int_gset:Nn \g__yoin_page_int { \value { page } }
373 \seq_map_inline:Nn \g_yoin_yoinadd_seq {
```

Handing of even/odd/pages. First, issue an error if both addarticle/forceopenany and addarticle/forceopenright are set.

```
374   \bool_if:nT {
375     \int_compare_p:nNn {
376       \yoin_yoinadd_prop_item:nn { ##1 } { forceopenany }
```

```

377         + \yoin_yoinadd_prop_item:nn { ##1 } { forceopenright }
378     } = { 2 }
379 } {
380     \msg_error:nnn { yoin } { forceopenanyright } { ##1 }
381 }

```

Then, we call `cleardoublepage` (our internal variant) if: either `forceopenright` is true; or `openright` is true and `forceopenright` is false.

```

382 \bool_if:nT {
383     \int_compare_p:nNn { \yoin_yoinadd_prop_item:nn { ##1 } { forceopenright } } = { 1 }
384     || (
385         \l__yoin_yoinprocess_openright_bool
386         &&
387         \int_compare_p:nNn { \yoin_yoinadd_prop_item:nn { ##1 } { forceopenany } } = { 0 }
388     )
389 } {
390     \__yoin_yoinprocess_cleardoublepage:
391 }

```

If `output` is true, we use `\includepdf` to include the PDF of the article.

```

392 \bool_if:NT \l__yoin_yoinprocess_output_bool {
393     \includepdf [ pages = - ] { ##1 / \yoin_yoinadd_prop_item:nn { ##1 } { jobname } .pdf }
394 }

```

Into file `./<articlename>.yoin1` we save the data to be transferred to the article: the first page number (possibly 1 if `alwayspageone` key is set) and the name of the this document.

```

395 \iow_open:Nn \g__yoin_yoinprocess_iow { ##1 .yoin1 }
396 \bool_if:NTF \l__yoin_yoinprocess_alwayspageone_bool {
397     \iow_now:Nx \g__yoin_yoinprocess_iow { firstpage ~ = ~ 1 , }
398 } {
399     \iow_now:Nx \g__yoin_yoinprocess_iow { firstpage ~ = ~ \int_use:N \g__yoin_page_int , }
400 }
401 \iow_now:Nx \g__yoin_yoinprocess_iow { parent ~ = ~ \jobname , }
402 \iow_close:N \g__yoin_yoinprocess_iow

```

Update our internal page counter.

```

403 \int_gadd:Nn \g__yoin_page_int { \yoin_yoinadd_prop_item:nn { ##1 } { totpages } }
404 }
405 }

```

`\yoinProcess` Public wrapper around the \LaTeX version.

```

406 \DeclareDocumentCommand \yoinProcess { 0{ } } { \yoin_yoinprocess:n { #1 } }

```

```

407
408 \int_new:N \g__yoin_page_int
409 \iow_new:N \g__yoin_yoinprocess_iow
410
411 \cs_new_protected:Nn \__yoin_yoinprocess_cleardoublepage: {
412   \bool_if:NT \l__yoin_yoinprocess_output_bool { \cleardoublepage }
413   \int_if_even:nT { \g__yoin_page_int } { \int_gincr:N \g__yoin_page_int }
414 }
415
416 \cs_new_protected:Nn \__yoin_yoinprocess_clearonepage: {
417   \bool_if:NT \l__yoin_yoinprocess_output_bool {
418     \hbox {} \newpage \if@twocolumn \hbox {} \newpage \fi
419   }
420   \int_gincr:N \g__yoin_page_int
421 }
422
423 \bool_new:N \l__yoin_yoinprocess_cleardoublepage_bool
424 \bool_new:N \l__yoin_yoinprocess_output_bool
425 \bool_new:N \l__yoin_yoinprocess_openright_bool
426 \bool_new:N \l__yoin_yoinprocess_alwayspageone_bool
427 \bool_new:N \l__yoin_yoinprocess_setpagenumber_bool
428 \int_new:N \l__yoin_yoinprocess_setpagenumber_int
429 \keys_define:nn { yoin / yoinprocess } {
430
431   cleardoublepage .bool_set:N = \l__yoin_yoinprocess_cleardoublepage_bool ,
432   cleardoublepage .initial:n = { false },
433
434   output .bool_set:N = \l__yoin_yoinprocess_output_bool ,
435   output .initial:n = { true },
436
437   openright .bool_set:N = \l__yoin_yoinprocess_openright_bool ,
438   openany .bool_set_inverse:N = \l__yoin_yoinprocess_openright_bool ,
439   openright .initial:n = { false },
440
441   setpagenumber .code:n =
442     \str_if_eq:nnTF { #1 } { false } {
443       \bool_set_false:N \l__yoin_yoinprocess_setpagenumber_bool
444     } {
445       \bool_set_true:N \l__yoin_yoinprocess_setpagenumber_bool
446       \int_set:Nn \l__yoin_yoinprocess_setpagenumber_int { #1 }

```



```

447     }
448     ,
449     setpagenumber .initial:n = { false },
450
451     alwayspageone .bool_set:N = \l__yoin_yoinprocess_alwayspageone_bool ,
452     alwayspageone .initial:n = { false },
453
454 }
455

```

9 Experimental

```

\bla
456 \cs_new:Nn \yoin_blabla: {
457     Blabla
458 }
459
460 \</package>

```