

1 Package header

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

Necessary packages: First, \LaTeX 3 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 \LaTeX 3.

`\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_sys_jobname_str

```

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 }

```

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

```

\yoinSetup 77 \cs_new_protected:Nn \yoin_setup:n {
78   \keys_set:nn { yoin / general } { #1 }
79 }

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

```

4 yoinMeta macro — adding issue’s metadata

```

\yoinMeta
\yoin_yoinmeta:n 83 \prop_new:N \l__yoin_yoinmeta_prop
84 \cs_new_protected:Nn \__yoin_yoinmeta_storekey:nn {
85   \prop_put:Nnn \l__yoin_yoinmeta_prop { #1 } { #2 }
86 }
87 \cs_new_protected:Nn \__yoin_yoinmeta_storekey:n {
88   \prop_put:Nnn \l__yoin_yoinmeta_prop { #1 } { }
89 }
90 \cs_new_protected:Nn \yoin_yoinmeta:n {
91   \keyval_parse:Nnn \__yoin_yoinmeta_storekey:n \__yoin_yoinmeta_storekey:nn { #1 }
92 }
93 \NewDocumentCommand \yoinMeta { R[]{} } {
94   \yoin_yoinmeta:n { #1 }
95 }

```

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.
96 \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 97 \cs_new:Nn \yoin_yoinadd_prop:n {
\yoin_yoinadd_prop_item:Vn 98   g__yoin_article_#1_prop
99 }
100 \cs_generate_variant:Nn \yoin_yoinadd_prop:n { V }

101 \cs_new:Nn \yoin_yoinadd_prop_item:nn {
102   \prop_item:cnn { \yoin_yoinadd_prop:n { #1 } } { #2 }
103 }
104 \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.
105 \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 106 \cs_new_protected:Nn \__yoin_yoinadd_storekey:nn {
107   \prop_gput:cnn { \yoin_yoinadd_prop:V \l__yoin_yoinadd_currentarticle_tl } { #1 } { #2 }
108 }
109 \cs_new_protected:Nn \__yoin_yoinadd_storekey:n {
110   \prop_gput:cnn { \yoin_yoinadd_prop:V \l__yoin_yoinadd_currentarticle_tl } { #1 } { }
111 }
```

```
\yoin_yoinadd:nn The macro \yoinAdd itself. We first set \l__yoin_yoinadd_currentarticle_tl, then check whether the same article has not been
\yoinAdd 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).

```

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

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

```

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 137 \msg_new:nnn { yoin } { yoinadd-duplicatearticle }
138   { The ~ article ~ "#1" ~ has ~ been ~ already ~ processed ~ by ~ \token_to_str:N \yoinAdd ~.}
139 \msg_new:nnn { yoin } { yoinadd-dotyoinmissing }
140   { 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.

```

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

```

```

144     }
145 }

```

For boolean keys, we create a manual boolean parser.

```

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

```

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

```

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

```

6 Environment yoinshell

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

`yoin_/_yoinshell` Key-value interface to yoinshell.

```

160 \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).

```

161     flag .code:n =
162         \__yoin_error_if_flag_undefined:n { #1 }
163         \bool_if:NT \g_yoin_onlyflags_bool {
164             \seq_if_in:NnF \g_yoin_onlyflags_seq { #1 } {
165                 \keys_set:nn { yoin / yoinshell } {
166                     ignore = true
167                 }
168             }
169         }
170     ,

```

The ignore key sets a boolean

```
171   ignore .bool_set:N = \l_yoin_yoinshell_ignore_bool,
172   ignore .initial:n = { false },
173 }
```

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

```
\ShellEscape 174 \file_if_exist:nTF { shellesc.sty } {
\__yoin_yoinshell_shellescape:n 175   \RequirePackage { shellesc }
176 } {
177   \def \ShellEscape #1 { \immediate \write 18 { #1 } }
178 }
179 \cs_new_protected:Nn \__yoin_yoinshell_shellescape:n {
180   \ShellEscape { #1 }
181 }
182 \cs_generate_variant:Nn \__yoin_yoinshell_shellescape:n { V }
```

`__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 \AutoRunForEach { 0{} } { }
192     \DeclareDocumentCommand \Run { 0{} m } { }
193     \DeclareDocumentCommand \AutoRun { 0{} } { }
194     \DeclareDocumentCommand \WriteMeta { 0{} } { }
195   } {
196     \DeclareDocumentCommand \RunForEach { 0{} m } { \yoin_yoinshell_runforeach:nn { ##1 } { ##2 } }
197     \DeclareDocumentCommand \AutoRunForEach { 0{} } { \yoin_yoinshell_autorunforeach:n { ##1 } }
198     \DeclareDocumentCommand \Run { 0{} m } { \yoin_yoinshell_run:nn { ##1 } { ##2 } }
199     \DeclareDocumentCommand \AutoRun { 0{} } { \yoin_yoinshell_autorun:n { ##1 } }
200     \DeclareDocumentCommand \WriteMeta { 0{} } { \yoin_yoinshell_writemeta:n { ##1 } }
201     \yoin_yoinshell_writemeta:n { }
202   }
```



```

203 }

204 \cs_new_protected:Nn \__yoin_yoinshell_end: {
205     \group_end:
206 }

207 \NewDocumentEnvironment { yoinshell } { 0{ } } {
208     \__yoin_yoinshell_begin:n { #1 }
209 } {
210     \__yoin_yoinshell_end:
211 }

```

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.

```

212 \tl_new:N \l__yoin_yoinshell_runforarticle_tag_tl
213 \tl_new:N \l__yoin_yoinshell_runforeach_onlytag_tl
214 \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

```

215 \keys_define:nn { yoin / runforeach } {
216     onlytag .code:n =
217         \__yoin_error_if_tag_undefined:n { #1 }
218         \tl_set:Nn \l__yoin_yoinshell_runforeach_onlytag_tl { #1 }
219     ,
220 }

```

__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.

```

221 \tl_new:N \l__yoin_yoinshell_runforarticle_tmpa_tl
222 \cs_new_protected:Nn \__yoin_yoinshell_runforarticle_keyfromprop:nnN {
223     \prop_get:cnN { \yoin_yoinadd_prop:n { #1 } } { #2 } \l__yoin_yoinshell_runforarticle_tmpa_tl
224     \quark_if_no_value:NTF \l__yoin_yoinshell_runforarticle_tmpa_tl {
225         \def #3 {}
226     } {
227         \let #3 \l__yoin_yoinshell_runforarticle_tmpa_tl
228     }
229 }

```

`_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.

```

230 \cs_new_protected:Nn \yoin_yoinshell_runforeach:nn {
231   \group_begin:
232   \keys_set:nn { yoin / runforeach } { #1 }
233   \seq_map_inline:Nn \g_yoin_yoinadd_seq { \_yoin_yoinshell_runforarticle:nn { ##1 } { #2 } }
234   \group_end:
235 }

```

`_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.

```

236 \cs_new_protected:Nn \_yoin_yoinshell_runforarticle:nn {
237   \prop_get:cnN { \yoin_yoinadd_prop:n { #1 } } { tag } \l__yoin_yoinshell_runforarticle_tag_tl
238   \bool_if:nT {
239     \quark_if_no_value_p:N \l__yoin_yoinshell_runforarticle_tag_tl
240     ||
241     \quark_if_no_value_p:N \l__yoin_yoinshell_runforeach_onlytag_tl
242     ||
243     \tl_if_eq_p:NN \l__yoin_yoinshell_runforeach_onlytag_tl \l__yoin_yoinshell_runforarticle_tag_tl
244   }{
245     \group_begin:
246     \_yoin_yoinshell_runforarticle_keyfromprop:nnN { #1 } { article } \Article
247     \_yoin_yoinshell_runforarticle_keyfromprop:nnN { #1 } { jobname } \Jobname
248     \_yoin_yoinshell_runforarticle_keyfromprop:nnN { #1 } { firstpage } \FirstPage
249     \_yoin_yoinshell_shellescape:n { #2 }
250     \group_end:
251   }
252 }
253 \cs_generate_variant:Nn \_yoin_yoinshell_runforarticle:nn { VV }

```

6.2 AutoRunForEach (undocumented)

```

254 \tl_new:N \l__yoin_yoinshell_autorunforeach_engine_tl
255 \tl_set:Nn \l__yoin_yoinshell_autorunforeach_engine_tl { \q_no_value }
256 \tl_new:N \l__yoin_yoinshell_autorunforeach_command_tl
257 \tl_new:N \l__yoin_yoinshell_autorunforeach_article_tl
258 \cs_new_protected:Nn \yoin_yoinshell_autorunforeach_new_engine:nn {
259   \cs_if_exist:cT { __yoin_yoinshell_autorunforeach_engine_preprocess_ #1 : } {

```

```

260     \msg_warning:nnn { yoin } { autorunforeach-duplicate-engine } { #1 }
261   }
262   \cs_new_protected:cn { __yoin_yoinshell_autorunforeach_engine_preprocess_ #1 : } { #2 }
263 }
264 \cs_new_protected:Nn \yoin_yoinshell_autorunforeach_new_variable:n {
265   \tl_new:c { l__yoin_yoinshell_autorunforeach_variable_ #1 _tl }
266   \keys_define:nn { yoin / autorunforeach } {
267     #1 .tl_set:c = { l__yoin_yoinshell_autorunforeach_variable_ #1 _tl } ,
268   }
269 }
270 \yoin_yoinshell_autorunforeach_new_engine:nn { latex }
271   { \tl_set:Nn \l__yoin_yoinshell_autorunforeach_command_tl
272     { cd ~ "./\Article" ~ && ~ latex ~ -recorder ~ "./\Jobname" } }
273 \yoin_yoinshell_autorunforeach_new_engine:nn { dvips }
274   { \tl_set:Nn \l__yoin_yoinshell_autorunforeach_command_tl
275     { cd ~ "./\Article" ~ && ~ dvips ~ "./\Jobname.dvi" } }
276 \yoin_yoinshell_autorunforeach_new_engine:nn { ps2pdf }
277   { \tl_set:Nn \l__yoin_yoinshell_autorunforeach_command_tl
278     { cd ~ "./\Article" ~ && ~ ps2pdf ~ "./\Jobname.ps" } }
279 \yoin_yoinshell_autorunforeach_new_engine:nn { pdflatex }
280   { \tl_set:Nn \l__yoin_yoinshell_autorunforeach_command_tl
281     { cd ~ "./\Article" ~ && ~ pdflatex ~ -recorder ~ "./\Jobname" } }
282 \yoin_yoinshell_autorunforeach_new_engine:nn { lualatex }
283   { \tl_set:Nn \l__yoin_yoinshell_autorunforeach_command_tl
284     { cd ~ "./\Article" ~ && ~ lualatex ~ -recorder ~ "./\Jobname" } }
285 \yoin_yoinshell_autorunforeach_new_engine:nn { xelatex }
286   { \tl_set:Nn \l__yoin_yoinshell_autorunforeach_command_tl
287     { cd ~ "./\Article" ~ && ~ xelatex ~ -recorder ~ "./\Jobname" } }
288 \yoin_yoinshell_autorunforeach_new_engine:nn { arara }
289   { \tl_set:Nn \l__yoin_yoinshell_autorunforeach_command_tl
290     { cd ~ "./\Article" ~ && ~ arara ~ "./\Jobname.tex" } }
291 \msg_new:nnn { yoin } { autorunforeach-noengine }
292   { Engine ~ unspecified ~ for ~ \token_to_str:N \AutoRunForEach . ~ I'm ~ trying ~ 'pdflatex'. }
293 \msg_new:nnn { yoin } { autorunforeach-duplicate-engine }
294   { Engine ~ '#1' ~ defined ~ multiple ~ times. ~ Overwriting ~ the ~ first ~ definition. }
295 \msg_new:nnn { yoin } { autorunforeach-unknown-engine }
296   { Engine ~ '#1' ~ unknown. ~ I'm ~ trying ~ 'pdflatex'. }
297 \keys_define:nn { yoin / autorunforeach } {
298   onlytag .code:n = \keys_set:nn { yoin / runforeach } { onlytag = { #1 } } ,
299   engine .tl_set:N = \l__yoin_yoinshell_autorunforeach_engine_tl ,

```

```

300 }
301 \cs_new_protected:Nn \yoin_yoinshell_autorunforeach:n {
302   \group_begin:
303   \keys_set:nn { yoin / autorunforeach } { #1 }
304   \quark_if_no_value:NT \l__yoin_yoinshell_autorunforeach_engine_tl {
305     \msg_error:nn { yoin } { autorunforeach-noengine }
306     \tl_set:Nn \l__yoin_yoinshell_autorunforeach_engine_tl { pdflatex }
307   }
308   \cs_if_exist:cF { __yoin_yoinshell_autorunforeach_engine_preprocess_ \l__yoin_yoinshell_autorunforeach_engine_tl : } {
309     \msg_error:nnx { yoin } { autorunforeach-unknown-engine } { \l__yoin_yoinshell_autorunforeach_engine_tl }
310     \tl_set:Nn \l__yoin_yoinshell_autorunforeach_engine_tl { pdflatex }
311   }
312   \seq_map_inline:Nn \g_yoin_yoinadd_seq {
313     \tl_set:Nn \l__yoin_yoinshell_autorunforeach_article_tl { ##1 }
314     \use:c { __yoin_yoinshell_autorunforeach_engine_preprocess_ \l__yoin_yoinshell_autorunforeach_engine_tl : }
315     \__yoin_yoinshell_runforarticle:VV
316     \l__yoin_yoinshell_autorunforeach_article_tl
317     \l__yoin_yoinshell_autorunforeach_command_tl
318   }
319   \group_end:
320 }

```

6.3 Run

`__yoin_yoinshell_run:nn`

```

321 \cs_new_protected:Nn \yoin_yoinshell_run:nn {
322   \group_begin:
323   \keys_set:nn { yoin / run } { #1 }
324   \let \Jobname \g_yoin_jobname_tl
325   \__yoin_yoinshell_shellescape:n { #2 }
326   \group_end:
327 }

```

6.4 AutoRun (undocumented)

```

328 \tl_new:N \l__yoin_yoinshell_autorun_engine_tl
329 \tl_set:Nn \l__yoin_yoinshell_autorun_engine_tl { \q_no_value }
330 \tl_new:N \l__yoin_yoinshell_autorun_command_tl
331 \cs_new_protected:Nn \yoin_yoinshell_autorun_new_engine:nn {
332   \cs_new_protected:cn { __yoin_yoinshell_autorun_engine_preprocess_ #1 : } { #2 }

```

```

333 }
334 \cs_new_protected:Nn \yoin_yoinshell_autorun_new_variable:n {
335   \tl_new:c { l__yoin_yoinshell_autorun_variable_ #1 _tl }
336   \keys_define:nn { yoin / autorun } {
337     #1 .tl_set:c = l__yoin_yoinshell_autorun_variable_ #1 _tl ,
338   }
339 }
340 \yoin_yoinshell_autorun_new_engine:nn { pdflatex } {
341   \tl_clear:N \l__yoin_yoinshell_autorun_command_tl
342   \tl_put_right:Nn \l__yoin_yoinshell_autorun_command_tl
343     { pdflatex ~ -recorder ~ -jobname ~ "\Jobname }
344   \tl_put_right:NV \l__yoin_yoinshell_autorun_command_tl
345     \l__yoin_yoinshell_autorun_variable_suffix_tl
346   \tl_put_right:Nn \l__yoin_yoinshell_autorun_command_tl
347     { " ~ "\noexpand\PassOptionsToPackage{subprocess, ~ jobname=\Jobname}{yoin}\noexpand\input{\Jobname}" }
348 }
349 \yoin_yoinshell_autorun_new_variable:n { suffix }
350 \msg_new:nnn { yoin } { autorun-noengine }
351   { Engine ~ unspecified ~ for ~ \token_to_str:N \AutoRun . ~ I'm ~ trying ~ 'pdflatex'. }
352 \msg_new:nnn { yoin } { autorun-unknown-engine }
353   { Engine ~ '#1' ~ unknown. ~ I'm ~ trying ~ 'pdflatex'. }
354 \keys_define:nn { yoin / autorun } {
355   engine .tl_set:N = \l__yoin_yoinshell_autorun_engine_tl ,
356 }
357 \cs_new_protected:Nn \yoin_yoinshell_autorun:n {
358   \group_begin:
359   \keys_set:nn { yoin / autorun } { #1 }
360   \quark_if_no_value:NT \l__yoin_yoinshell_autorun_engine_tl {
361     \msg_error:nn { yoin } { autorun-noengine }
362     \tl_set:Nn \l__yoin_yoinshell_autorun_engine_tl { pdflatex }
363   }
364   \cs_if_exist:cF { __yoin_yoinshell_autorun_engine_preprocess_ \l__yoin_yoinshell_autorun_engine_tl : } {
365     \msg_error:nnx { yoin } { autorun-unknown-engine } { \l__yoin_yoinshell_autorun_engine_tl }
366     \tl_set:Nn \l__yoin_yoinshell_autorun_engine_tl { pdflatex }
367   }
368   \use:c { __yoin_yoinshell_autorun_engine_preprocess_ \l__yoin_yoinshell_autorun_engine_tl : }
369   \let \Jobname \g_yoin_jobname_tl
370   \__yoin_yoinshell_shellescape:V \l__yoin_yoinshell_autorun_command_tl
371   \group_end:
372 }

```

6.5 WriteMeta

`_yoin_yoinshell_writemeta:n`

```

373 \iow_new:N \g__yoin_yoinshell_iow
374 \cs_new_protected:Nn \yoin_yoinshell_writemeta:n {
375   \group_begin:
376   \yoin_yoinmeta:n { #1 }
377   \iow_open:Nn \g__yoin_yoinshell_iow { \g_yoin_jobname_tl .yoin }
378   \prop_map_inline:Nn \l__yoin_yoinmeta_prop {
379     \iow_now:Nn \g__yoin_yoinshell_iow { meta-##1 ~ = ~ { ##2 } , }
380   }
381   \iow_close:N \g__yoin_yoinshell_iow
382   \group_end:
383 }
```

7 macro yoinForEach

`\l__yoin_yoinforeach_article_tag_tl` First, two tls that will store tags: One for the tag of the article, one that could be passed to `\yoinForEach` that is initially set to `\l__yoin_yoinforeach_onlytag_tl` `\q_no_value`.

```

384 \tl_new:N \l__yoin_yoinforeach_article_tag_tl
385 \tl_new:N \l__yoin_yoinforeach_onlytag_tl
386 \tl_set:Nn \l__yoin_yoinforeach_onlytag_tl { \q_no_value }
```

`yoin_/_yoinforeach` So far, the only key-val passable to `\yoinForEach` is `onlytag`, which tests for the tag to be declared and passes it to `\l_@@_yoinforeach_onlytag_tl`.

```

387 \keys_define:nn { yoin / yoinforeach } {
388   onlytag .code:n =
389     \__yoin_error_if_tag_undefined:n { #1 }
390     \tl_set:Nn \l__yoin_yoinforeach_onlytag_tl { #1 }
391   ,
392 }
```

`_yoin_yoinforeach_article_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.

```

393 \tl_new:N \l__yoin_yoinforeach_tmpa_tl
394 \cs_new_protected:Nn \_yoin_yoinforeach_article_keyfromprop:nnN {
395   \prop_get:cnN { \yoin_yoinadd_prop:n { #1 } } { #2 } \l__yoin_yoinforeach_tmpa_tl
396   \quark_if_no_value:NTF \l__yoin_yoinforeach_article_tmpa_tl {
397     \def #3 {}
398   } {
```

```

399     \let #3 \l__yoin_yoinforeach_tmpa_tl
400   }
401 }

```

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

```

402 \cs_new:Nn \__yoin_yoinforeach_article_metaitem:nn {
403   \yoin_yoinadd_prop_item:nn { #1 } { article-#2 }
404 }

```

`__yoin_yoinforeach:nn` `\yoinForEach` itself just sets the keys (in a group to make things local) and then calls `\@@_yoinforeach_article:nn` on each article.

```

405 \cs_new_protected:Nn \yoin_yoinforeach:nn {
406   \group_begin:
407   \keys_set:nn { yoin / yoinforeach } { #1 }
408   \seq_map_inline:Nn \g_yoin_yoinadd_seq { \__yoin_yoinforeach_article:nn { ##1 } { #2 } }
409   \group_end:
410 }

```

`__yoin_yoinshell_runforarticle:nn` If the tag passed to `\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.

```

411 \cs_new_protected:Nn \__yoin_yoinforeach_article:nn {
412   \prop_get:cnN { \yoin_yoinadd_prop:n { #1 } } { tag } \l__yoin_yoinforeach_article_tag_tl
413   \bool_if:nT {
414     \quark_if_no_value_p:N \l__yoin_yoinforeach_article_tag_tl
415     ||
416     \quark_if_no_value_p:N \l__yoin_yoinforeach_onlytag_tl
417     ||
418     \tl_if_eq_p:NN \l__yoin_yoinforeach_onlytag_tl \l__yoin_yoinforeach_article_tag_tl
419   }
420   {
421     \group_begin:
422     \DeclareDocumentCommand \Meta { m } { \__yoin_yoinforeach_article_metaitem:nn { #1 } { ##1 } }
423     \__yoin_yoinforeach_article_keyfromprop:nnN { #1 } { article } \Article
424     \__yoin_yoinforeach_article_keyfromprop:nnN { #1 } { jobname } \Jobname
425     \__yoin_yoinforeach_article_keyfromprop:nnN { #1 } { firstpage } \FirstPage
426     #2
427     \group_end:
428   }
429 }

```

`\yoinForEach` One optional key-val argument, one mandatory argument — the text to be typeset.

```
430 \NewDocumentCommand \yoinForEach { 0{ } +m } {  
431   \yoin_yoinforeach:nn { #1 } { #2 }  
432 }
```

8 yoinProcess

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

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

`\yoin_yoinprocess:` The cornerstone 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.

```
435 \cs_new_protected:Nn \yoin_yoinprocess: {  
  Finish the current page if it's started.
```

```
436   \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.

```
437   \bool_if:NTF \l__yoin_yoinprocess_cleardoublepage_bool {  
438     \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.

```
439     \int_if_odd:nT { \value { page } + \l__yoin_yoinprocess_setpagenumber_int } {  
440       \__yoin_yoinprocess_clearonepage:  
441     }  
442     \setcounter { page } { \int_use:N \l__yoin_yoinprocess_setpagenumber_int }  
443   } {
```

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.

```
444     \__yoin_yoinprocess_cleardoublepage:  
445   }  
446 }
```


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

```
447     \bool_if:NTF \l__yoin_yoinprocess_setpagenumber_bool {  
448         \setcounter { page } { \int_use:N \l__yoin_yoinprocess_setpagenumber_int }  
449     } {
```

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

```
450         \prg_do_nothing:  
451     }  
452 }
```

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.

```
453     \int_gset:Nn \g__yoin_page_int { \value { page } }  
454     \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.

```
455     \bool_if:nT {  
456         \int_compare_p:nNn {  
457             \yoin_yoinadd_prop_item:nn { ##1 } { forceopenany }  
458             + \yoin_yoinadd_prop_item:nn { ##1 } { forceopenright }  
459         } = { 2 }  
460     } {  
461         \msg_error:nnn { yoin } { forceopenanyright } { ##1 }  
462     }
```

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

```
463     \bool_if:nT {  
464         \int_compare_p:nNn { \yoin_yoinadd_prop_item:nn { ##1 } { forceopenright } } = { 1 }  
465         || (  
466             \l__yoin_yoinprocess_openright_bool  
467             &&  
468             \int_compare_p:nNn { \yoin_yoinadd_prop_item:nn { ##1 } { forceopenany } } = { 0 }  
469         )  
470     } {  
471         \__yoin_yoinprocess_cleardoublepage:  
472     }
```

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

```
473     \bool_if:NT \l__yoin_yoinprocess_output_bool {  
474         \includepdf [ pages = - ] { ##1 / \yoin_yoinadd_prop_item:nn { ##1 } { jobname } .pdf }  
475     }
```

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.

```

476 \iow_open:Nn \g__yoin_yoinprocess_iow { ##1 .yoin1 }
477 \bool_if:NTF \l__yoin_yoinprocess_alwayspageone_bool {
478   \iow_now:Nx \g__yoin_yoinprocess_iow { firstpage ~ = ~ { 1 } , }
479 } {
480   \iow_now:Nx \g__yoin_yoinprocess_iow { firstpage ~ = ~ { \int_use:N \g__yoin_page_int } , }
481 }
482 \iow_now:Nx \g__yoin_yoinprocess_iow { parent ~ = ~ { \g_yoin_jobname_tl } , }
483 \iow_close:N \g__yoin_yoinprocess_iow

```

Update our internal page counter.

```

484 \int_gadd:Nn \g__yoin_page_int { \yoin_yoinadd_prop_item:nm { ##1 } { totpages } }
485 }
486 }

```

\yoinProcess Public wrapper around the \LaTeX 3 version.

```

487 \DeclareDocumentCommand \yoinProcess { } { \yoin_yoinprocess: }

```

\g__yoin_page_int A private counter for tracking the page numbers, and an output stream for writing to .yoin1 files.

```

\g__yoin_yoinprocess_iow 488 \int_new:N \g__yoin_page_int
489 \iow_new:N \g__yoin_yoinprocess_iow

```

__yoin_yoinprocess_cleardoublepage: If output is true, issue \cleardoublepage. Since this macro is always called after a page is finished (either after \includepdf or \clearpage), to correct the private page counter, we only need to round its value up to an odd number.

```

490 \cs_new_protected:Nn \__yoin_yoinprocess_cleardoublepage: {
491   \bool_if:NT \l__yoin_yoinprocess_output_bool { \cleardoublepage }
492   \int_if_even:nT { \g__yoin_page_int } { \int_gincr:N \g__yoin_page_int }
493 }

```

__yoin_yoinprocess_clearonepage: Clear exactly one page. Code borrowed from \LaTeX 2_ε kernel's \cleardoublepage.

```

494 \cs_new_protected:Nn \__yoin_yoinprocess_clearonepage: {
495   \bool_if:NT \l__yoin_yoinprocess_output_bool {
496     \hbox {} \newpage \if@twocolumn \hbox {} \newpage \fi
497   }
498   \int_gincr:N \g__yoin_page_int
499 }

```

\l__yoin_yoinprocess_cleardoublepage_bool Booleans and counters for values of the keys defined below.

```
\l__yoin_yoinprocess_output_bool 500 \bool_new:N \l__yoin_yoinprocess_cleardoublepage_bool
\l__yoin_yoinprocess_openright_bool 501 \bool_new:N \l__yoin_yoinprocess_output_bool
\l__yoin_yoinprocess_alwayspageone_bool 502 \bool_new:N \l__yoin_yoinprocess_openright_bool
\l__yoin_yoinprocess_setpagenumber_bool 503 \bool_new:N \l__yoin_yoinprocess_alwayspageone_bool
\l__yoin_yoinprocess_setpagenumber_int 504 \bool_new:N \l__yoin_yoinprocess_setpagenumber_bool
505 \int_new:N \l__yoin_yoinprocess_setpagenumber_int
```

yoin_/general Keys for yoinprocess: several boolean keys (including openany as the negation of openright), and setpagenumber, taking as a value either a number or false (if a number is input, it is stored in a counter with the appropriate boolean set true). We actually define these keys as general keys and they are set up either when loading the package or using \yoinSetup, they are defined here because they basically only interact with \yoinProcess.

```
506 \keys_define:nn { yoin / general } {

507   cleardoublepage .bool_set:N = \l__yoin_yoinprocess_cleardoublepage_bool ,
508   cleardoublepage .initial:n = { false },

509   output .bool_set:N = \l__yoin_yoinprocess_output_bool ,
510   output .initial:n = { true },

511   openright .bool_set:N = \l__yoin_yoinprocess_openright_bool ,
512   openany .bool_set_inverse:N = \l__yoin_yoinprocess_openright_bool ,
513   openright .initial:n = { false },

514   alwayspageone .bool_set:N = \l__yoin_yoinprocess_alwayspageone_bool ,
515   alwayspageone .initial:n = { false },

516   setpagenumber .code:n =
517     \str_if_eq:nnTF { #1 } { false } {
518       \bool_set_false:N \l__yoin_yoinprocess_setpagenumber_bool
519     } {
520       \bool_set_true:N \l__yoin_yoinprocess_setpagenumber_bool
521       \int_set:Nn \l__yoin_yoinprocess_setpagenumber_int { #1 }
522     }
523   ,
524   setpagenumber .initial:n = { false },

525 }
```

9 Process keys

`\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`.

```
526 \ProcessKeysPackageOptions { yoin / general }
```

10 Article setting stuff (undocumented)

Information to be stored in an auxiliary file.

```
527 \tl_new:N \l__yoin_article_tmpa_tl
528 \seq_new:N \l__yoin_article_tmpa_seq
529
530 \cs_new_protected:Nn \__yoin_article_write_keyval:nn {
531   \iow_now:Nn \g__yoin_article_dotyoin_iow { #1 ~ = ~ { #2 } , }
532 }
533 \cs_generate_variant:Nn \__yoin_article_write_keyval:nn { nx, nV }
534
535 \cs_new_protected:Nn \yoin_article_write_meta:nn {
536   \__yoin_article_write_keyval:nn { article-#1 } { #2 }
537 }
538 \cs_generate_variant:Nn \yoin_article_write_meta:nn { nx, nV }
539
540 \cs_new_protected:Nn \yoin_article_write: {
541   \__yoin_article_write_keyval:nV { jobname } \g_yoin_jobname_tl
542   \__yoin_article_write_keyval:nx { totpages } { \ztotpages }
543   \__yoin_article_write_keyval:nV { currrdir } \l_yoin_article_currrdir_tl
544   \__yoin_article_write_keyval:nx { firstpage } { \int_use:N \l_yoin_article_firstpage_int }
545 }
546
547 \prop_new:N \l__yoin_article_read_prop
548
549 \cs_new_protected:Nn \yoin_article_read_put:nn {
550   \prop_put:Nnn \l__yoin_article_read_prop { #1 } { #2 }
551 }
552 \cs_generate_variant:Nn \yoin_article_read_put:nn { V }
553
554 \int_new:N \l_yoin_article_firstpage_int
555 \int_set:Nn \l_yoin_article_firstpage_int { 1 }
556
```

```

557 \keys_define:nn { yoin / toarticle } {
558   firstpage .code:n =
559     \int_set:Nn \l_yoin_article_firstpage_int { #1 }
560     \yoin_article_read_put:nn { firstpage } { #1 }
561     ,
562
563   parent .code:n =
564     \file_if_exist:nT { ../ #1 .yoin } {
565       \yoin_keys_set_from_file:nn { yoin / toarticle } { ../ #1 .yoin }
566     }
567     \yoin_article_read_put:nn { parent } { #1 }
568     ,
569
570   unknown .code:n =
571     \yoin_article_read_put:Vn \l_keys_key_tl { #1 }
572     ,
573 }
574
575 \bool_new:N \g__yoin_article_read_bool
576
577 \cs_new_protected:Nn \yoin_article_read: {
578   \bool_if:NF \g__yoin_article_read_bool {
579     \file_if_exist:nT { ../ \l_yoin_article_currdir_tl .yoin1 } {
580       \yoin_keys_set_from_file:nn { yoin / toarticle } { ../ \l_yoin_article_currdir_tl .yoin1 }
581     }
582   }
583   \bool_gset_true:N \g__yoin_article_read_bool
584 }
585
586 \cs_new:Nn \yoin_article_read_meta:n {
587   \prop_item:Nn \l__yoin_article_read_prop { meta-#1 }
588 }
589
590 \cs_new_protected:Nn \yoin_article_read_meta_gset_tl_default:Nnn {
591   \prop_get:NnNTF \l__yoin_article_read_prop { meta-#2 } \l__yoin_article_tmpa_tl {
592     \tl_gset_eq:NN #1 \l__yoin_article_tmpa_tl
593   } {
594     \tl_gset:Nn #1 { #3 }
595   }
596 }

```

```

597
598 \NewDocumentCommand \yoinArticleMeta { m } {
599   \yoin_article_read_meta:n { #1 }
600 }
601
602 \tl_new:N \l_yoin_article_currdir_tl
603 \cs_generate_variant:Nn \regex_extract_all:nnN { nV }
604 \cs_new_protected:Nn \yoin_article_getcurrdir:N {
605   \tl_set:Nx \l__yoin_article_tmpa_tl { \currfileabsdir / }
606   \regex_extract_all:nVN { /([~/][^/]+|[^/.]) } \l__yoin_article_tmpa_tl \l__yoin_article_tmpa_seq
607   \seq_get_right:NN \l__yoin_article_tmpa_seq #1
608 }
609
610 \iow_new:N \g__yoin_article_dotyoin_iow
611 \bool_if:NT \g_yoin_article_bool {
612   \yoin_article_getcurrdir:N \l_yoin_article_currdir_tl
613   \iow_open:Nn \g__yoin_article_dotyoin_iow { \l_yoin_article_currdir_tl .yoin }
614   \yoin_article_read:
615   \AtBeginDocument {
616     \setcounter { page } { \l_yoin_article_firstpage_int }
617     \yoin_article_write:
618   }
619 }

```

11 Experimental

```

\bla
620 \cs_new:Nn \yoin_blabla: {
621   Blabla
622 }
623
624 \</package>

```