

The achicago BibTeX style

A Chicago Manual BibTeX style

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Abstract

The Chicago Manual of Style bibliography style BibTeX macros. The style is mostly style A, but borrows the author-date reference system from style B.

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Part I

Discussion

Warning: *The dox are spotty for this bibstyle—sorry! This is a pretty stable style, however. I’ve included almost my entire test cases. If you’re puzzled, you may compare `frankenstein.bib` with what you see in the References section at the end of this document. Or please write me.*

Reference list ordering: alphabetical by author or whatever passes for author in the absence of one.

1 User documentation

No bibstyle is going to elegantly handle everything while using them in a way that’s at all compatible with the majority of existing bibstyles out there. And it’s not clear that such a bibstyle would be worth the effort to write and learn to use properly. The time would be better spent, I think, writing some macros to make inserting hand-done exceptions seamlessly into the bibliography, so that the whole process could remain clean and automatic.

For the sceptical, and for your entertainment, an example. I wanted to cite a certain paper by Freud in my dissertation. The cited paper has a title, date of first publication, and chapter number; I read this paper in a volume of Freud’s papers with a title, volume editor, volume date, publisher, reprint date, and reprint publisher; this volume has a number in a series of publications (The International Psycho-Analytic Library) with a series editor; and also this volume has a volume number within a multivolume work with its own title (*Collected Papers*) and (supervising) translator. Readers honestly don’t need all that information, but each one of those 15 pieces of information might be highly important for another citation, for which only two or three pieces of information were relevant or available. No one needs to write a bibstyle that handles it all, so at several places, the fields are assumed to be used for either one thing or another. For example, ‘series’ *either* contains the title of the inclusive multivolume work *or* the series. When, as rarely happens, a volume is part of both at once, you have to give up one or the other.

Warning: *This is a complex bibstyle and the number of potential cases is very high. Please check your output, and write me with cases that are not set according to *The Chicago Manual* percepts. Please refer to the *The Chicago Manual* whenever possible.*

STAR the new fields.

entry type	description
address	Address of publisher of <i>cited</i> edition, whether a reprint or not.
annotation	A complete paragraph or more.
author	
bookauthor	Book’s author whenever ‘author’ is referring to the author of a part of the book. Usually an ‘inbook’ or ‘incollection’ entry refers to a book with an editor but no author, but not with introductions and the like.

Table 1: Entry types.

entry type	description
booktitle	Book's title whenever ' title is referring to a part of the book.
chapter	The ' title names the ' chapterth part of the book. One expects to have nonempty ' booktitle. See also ' type.
edition	Edition information to be given after the book's title, which is ' booktitle if that is nonempty and ' title otherwise. Example: 2d~ed., 2~vols.in1~book
editor	NOTE all f* and o* fields are only going to apply to 'book', 'incollection', 'inbook' entries. FIX: check – booklet? etc.
faddress	Address of publisher of first-published edition. Not used unless ' fyear is nonempty.
flanguage	Language of first-published edition. Not used unless ' translator or ' fyear is nonempty.
fpublisher	Publisher of first-published edition. Not used unless ' fyear is nonempty.
ftitle	Title of first-published edition (probably in ' flanguage). Not used unless ' fyear is nonempty.
fyear	Date of first-published edition.
howpublished	
illustrator	For 'book' entries only. When the author or editor illustrates, use a construction like {theeditor}andothers.
institution	For thesis entries only. FIX check
journal	For 'article' entries only.
key	often default with empty author, editor, organization
month	For 'journal' entries, also season, e.g., Winter
note	Begins its own block, so capitalize. Concluding punctuation is supplied automatically if not given in the field.
number	For 'journal' entry, number of the journal (if no "" volume) or number within the volume. For "book" entry, number of the book in the ' series. Makes sense only when ' series is a series rather than the title of a multivolume work.
oaddress	For a reprint, address of ORIGINAL publisher.
opublisher	For a reprint, publisher of ORIGINAL edition. A nonempty value implies the cited edition IS a reprint (and so must have ' oyear).
organization	
oyear	For a reprint, date of publication of ORIGINAL edition A nonempty value implies the cited edition IS a reprint (and so OUGHT TO have ' opublisher). The value will almost always differ from ' year.
pages	
publisher	Publisher of the cited edition.
school	
series	Series to which ' title belongs, or title of a multivolume work where the volumes have their own titles given in ' booktitle or ' title.

Table 1: Entry types.

entry type	description
seriesedition	Edition information to be given after ‘series’. Makes sense only when ‘series’ is the title of a multivolume work with titled volumes. In the entry for the multivolume work, that is, when ‘series’ and ‘title’ are identical, use ‘seriesedition’ not ‘edition’. See also ‘edition’. Consequence of disobeying last is when references are less than min-crossrefs (i.e., no separate entry for the multivolume work) you get the edition information for the multivolume work appearing after the title of the component volume. Note: you can’t really get away with putting a series editor here. I think you’d have to use the ‘note’ field for that; or we could make yet another field.
title	
translator	For ‘book’ entries only, the translator(s). See also “” language. When the author or editor translates, use a construction like {theeditor}andothers.
type	For ‘inbook’ entries, the value overrides Chapter . When “” type is empty you get Chapter~<chapter>of . FIX: CHECK: For *-thesis entries, gives thesis-type word, e.g. Master’sThesis .
volume	For ‘journal’ entry, it’s volume. For “book” entry, its number in the ‘series’, or its volume number in a multivolume book.
year	Year of publication of cited edition, whether a reprint or not.
yearcomp	Year work composed. For ‘book’ entry only (so far).

Table 1: Entry types.

Part II

Implementation

2 Version control

Version information:

```
1 ^^A Keep the /~ %% \def\file.../ beginning exact!
2
3 %% A BibTeX bibliography style
4 %%   conforming to the Chicago Manual's A style
5 %%   but with B style author-date citations
6 %%   by Matt Swift <swift@alum.mit.edu>
7 %%
8 %% \def\fileinfo{A Chicago Manual BibTeX style}
9 %% \def\DoXPackageS {longtable}
10 %% \def\initelyHaveCitationS {}
11 %% \def\fileversion{v0.8a}
12 %% \def\filedate{1998/08/14}
13 %% \def\docdate{1999/03/01}
14 %%
15
```

3 Implementation

3.1 Preliminary

These are global variables. ‘output.state’ will always have one of the four following scalar values, telling us where we are in producing the entry.

```
16 INTEGERS { output.state before.all mid.sentence after.sentence after.block }
```

These are used for various internal calculations explained in the functions that use them.

```
17 INTEGERS { j nameptr namesleft numnames len last.year.tag.num }
```

These are more scratch variables.

Warning: *Suspect a conflict among these scratch variables if a strange problem occurs! I think ‘u’ is the only one that will hold its value past an ‘output’.*

```
18 STRINGS { s t u }
```

These are label variables used in the calculation of the final ‘long.label’, ‘short.label’, and `sort.key$`

```
19 STRINGS { last.long.label last.long.year.label following.year.tag.label }
```

These are the fields used. Not every entry type uses every field; the ones which are not ignored are listed with the definition of each entry type. Any fields in the bib database not on this list will be ignored by this bibliography style.

```
20 ENTRY
21 { address
22   annotation
23   author
24   bookauthor
```

```

25  booktitle
26  chapter
27  edition
28  editor
29  faddress
30  flanguage
31  fpublisher
32  ftitle
33  fyear
34  howpublished
35  illustrator
36  institution
37  journal
38  key
39  month
40  note
41  number
42  oaddress
43  opublisher
44  organization
45  oyear
46  pages
47  publisher
48  school
49  series
50  seriesedition
51  title
52  translator
53  type
54  volume
55  year
56  yearcomp
57  }

```

Integer entry variables. See the discussion of queue functions below and the string entry variable ‘printed.name’.

```

58  { printed.name.type
59  }

```

String entry variables.

‘long.label’ and ‘short.label’ hold the strings that will appear in the running text of a citation, preceding ‘year.label’ + ‘year.tag.label’. ‘long.label’ is used by the regular citing commands; ‘short.label’ is used by the short citing commands (`\shortcite` etc.).

```

60  { long.label short.label

```

‘year.label’ is a string representing the date (the actual ‘year’ field can be longer than 4 characters and have special characters in it, such as the `\noop` often given in certain examples as a tweak to sort order). ‘year.tag.label’ is either empty or a lower-case letter. The catenation of the two is used in the running text of the citation.

```

61  year.label year.tag.label

```

‘long.label’ and ‘short.label’ contain a formatted version of one of the entry’s fields (such as ‘author’, ‘editor’, etc.), and is used in the running text at the location

of the user's `\cite` command. 'printed.name' contains the string that appears at the front of the bibliography entry. Usually it is going to be the same thing as 'long.label', but sometimes we will be labelling it as a duplicate entry.

'printed.name' is going to be set in the sorting passes done before the entry-type functions are called, so, e.g., you might find some "make" functions branching on what's in 'printed.name'.

```
62   printed.name
63 }
```

stop with the `\end{document}`.

This bibstyle does not distinguish between sentences and blocks. There are no sentences here, only blocks. In the *achicago* package, `\newblock` adds a very small and rubber amount of horizontal space, relaxing somewhat the `\frenchspacing` in effect. I have not used 'new.sentence in this bibstyle, but I have not removed the capability of telling the distinction between sentences and blocks. Someone would need to merely put 'new.sentence somewhere in the bibstyle here, probably replacing a 'new.block, and then define `\newblock` to do something more interesting than it presently does. Someone wishing to take advantage of the distinction ought to review all relevant functions carefully.

`init.state.constants` This should be called before any processing begins.

```
64 FUNCTION {init.state.consts}
65 { #0 'before.all :=
66   #1 'mid.sentence :=
67   #2 'after.sentence :=
68   #3 'after.block :=
69 }
```

3.2 Macros

These are required macro abbreviations. The user can redefine them. The billions of macros for obscure journals in all the standard styles just waste memory. They can be added by the user as needed.

```
70 MACRO {jan} {"January"}
71 MACRO {feb} {"February"}
72 MACRO {mar} {"March"}
73 MACRO {apr} {"April"}
74 MACRO {may} {"May"}
75 MACRO {jun} {"June"}
76 MACRO {jul} {"July"}
77 MACRO {aug} {"August"}
78 MACRO {sep} {"September"}
79 MACRO {oct} {"October"}
80 MACRO {nov} {"November"}
81 MACRO {dec} {"December"}
```

3.3 Basic logic

```
not
and 82 FUNCTION {not}
or   83 { { #0
      84   }
```



```

85     { #1
86     }
87   if$
88 }
89
90 FUNCTION {and}
91 {   'skip$
92     { pop$
93       #0
94     }
95   if$
96 }
97
98 FUNCTION {or}
99 {   { pop$
100     #1
101   }
102   'skip$           %$
103   if$
104 }

```

3.4 Punctuation and abbreviations

```

comma  These definitions are made so that later functions are easier to read. The reason
space  these are functions not macros is so the user cannot change them. They need to
tie    come before the output functions.
colon  105 FUNCTION {comma}
etal   106 { ","
unidentified 107 }
108
109 FUNCTION {colon}
110 { ":"
111 }
112
113 FUNCTION {space}
114 { " "
115 }
116
117 FUNCTION {tie}
118 { "~"
119 }
120
121 FUNCTION {etal}
122 { " et~al."
123 }

```

Below, we need to be able to set a string to a value which would never be generated from any string in a bibliography database. It's safe to assume that this string is such a one.

```

124 FUNCTION {unidentified}
125 { "HiGHlY*Peco@lIEr"
126 }

```

3.5 Output functions

The ‘output’ function automatically handles interunit punctuation.

A call to ‘output’ should be made with a string and a punctuation mark on the stack. The punctuation mark is what should *precede* the string in the case the string begins in the middle of a sentence. Strings which begin sentences are preceded by periods. Strings which begin a new block are preceded by periods and the `\newblock` command. (It makes no sense for a string to begin at the end of a sentence.)

Calls to ‘output.internal’ leave the string on the stack until the next time ‘output.internal’ is called, when it will get printed out. The function ‘output.begin’ puts an empty string on the stack, and should be called before beginning any series of calls to ‘output’. ‘output.end’ cleans up and should be called at the conclusion of a series of calls to ‘output’.

`output.begin` Prepare for a series of calls to ‘output’. Put an empty string on the stack and set ‘output.state’ to ‘before.all’.

```
127 FUNCTION{output.begin}
128 { ""
129   before.all 'output.state :=
130 }
```

`output.end` Conclude a series of calls to ‘output’. Simply calls `write$`.

```
131 FUNCTION {output.end}
132 { write$
133 }
```

`new.block` Begin a new block.

```
134 FUNCTION {new.block}
135 { output.state before.all =
136   'skip$
137   { after.block 'output.state :=
138   }
139   if$
140 }
```

`new.sentence` Begin a new sentence. FIX: hmm, wouldn't we want to put a TeX command here for intersentence space now? Why do we mess with the usual spacefactor for periods anyway? When in bibliographies are the usual TeX rules not going to be what we want, and give too much space after a period? answer: when a lowercase letter followed by period, in e.g. sec. 2 and so on. often bibstyle will put tie there, but sometimes not I think, so need to have that be not an intersentence space. well, if i start using sentences instead of blocks, I think perhaps doing the same hskip after a sentence with a new command `\newsentence` perhaps as in `\newblock` would be the right thing to do.

```
141 FUNCTION {new.sentence}
142 { output.state before.all = output.state after.block = or
143   'skip$
144   { after.sentence 'output.state :=
145   }
146   if$
147 }
```

```

output.internal \stackpunct string/entry(nonnull)null
148 FUNCTION {output.internal}
149 { 's := % s := string/entry(nonnull)
150   space * 't := % t := punctuation + space
151   output.state mid.sentence =
152     { t * write$
153     }
154   { output.state after.block =
155     { add.period$ write$
156       newline$
157       "\newblock " write$
158     }
159     { output.state before.all =
160       'write$

Final case is 'output.state' = 'after.sentence', which means we just add a period,
but no newline or \newblock command.

161     { add.period$ space * write$
162     }
163     if$
164   }
165   if$

We are now mid-sentence, whether we were before or not.

166   mid.sentence 'output.state :=
167   }
168   if$

The actual string given to 'output.internal' is left on the stack here for next time
we call 'output.internal' or 'output.end', whichever comes next.

169   s
170 }

```

```

output \stackstring/entry puncteither null OR punct string/entry(nonnull)
    Check if string/entry is null. If it's null do nothing. If it's nonempty call
    'output.internal' on it with the given punctuation.
171 FUNCTION {output}
172 { swap$ duplicate$ empty$
173   { pop$
174     pop$
175   }
176   'output.internal
177   if$
178 }

```

output.bibitem The optional argument to `\bibitem` will be made the definition of `\b @foo` where `foo` is the `cite$` key. `\b @foo` will be executed by all the various citing commands with a definition of `\SCcite` that is appropriate to each citing command.

The `thebibliography` environment actually ignores the optional argument to `\bibitem`. The environment sets the formatting so that the first part of the main entry hangs out to the left and looks like a label.

The unexpandable protection is necessary, instead of a simple protection, in order to work with `newclude`'s `tag` option.

I guess we use `write$` for each part instead of catenating them and using a single `write$` in case the catenation gets longer than `BIBTEX` can handle. I don't know, this is how I found it. It seems like catenation and a single call to `write$` would be faster.

```

179 FUNCTION {output.bibitem}
180 { newline$
181   "\bibitem[\UnexpandableProtect\SCcite{" write$
182   long.label write$
183   "}{ " write$
184   short.label write$
185   "}{ " write$
186   year.label year.tag.label * write$
187   "]}{ " write$
188   cite$ write$
189   }" write$
190   newline$           %$
191 }

```

3.6 Simple auxiliary functions

`begin.entry` Begin an entry.

```

192 FUNCTION {begin.entry}
193 { output.begin
194   output.bibitem
195 }

```

This “make” function needs to precede ‘`finish.entry`’; see later for a general discussion of “make” functions.

`make.annotation` Annotations can be omitted simply by nullifying the `SCannotation` environment. The package or class file should take care of this.

```

196 FUNCTION {make.annotation}
197 { annotation empty$
198   { ""
199   }
200   { "\begin{SCannotation}"
201     annotation *
202     "\end{SCannotation}" *
203   }
204   if$
205 }

```

`finish.entry` Conclude an entry. `\stackstringnull`

```

206 FUNCTION {finish.entry}
207 { add.period$
208   output.end
209   newline$
210   make.annotation write$           %$
211
212 }

```

`field.or.null` `\stackfield` literalfield contents or null string if the field was missing

```

213 FUNCTION {field.or.null}

```

```

214 { duplicate$ empty$
215   { pop$
216     ""
217   }
218   'skip$
219   if$                               %$
220 }

```

`italicize` `\stackstring` or `entrystring`

Italicize the top string on the stack and provide italic corrections. Null goes to null. We want to explicitly italicize rather than use `\emph`, since semantic emphasis might be indicated in some other way in the document, e.g., slanted type.

```

221 FUNCTION {italicize}
222 { duplicate$ empty$
223   { pop$
224     ""
225   }
226   { "\textitswitch{" swap$ * "}" *
227   }
228   if$                               %$
229 }

```

`parenthesize` `\stackstring-or-entry:S`"(" + S + ")"

```

230 FUNCTION {parenthesize}
231 { duplicate$ empty$
232   { pop$
233     ""
234   }
235   { "(" swap$ * ")" *
236   }
237   if$                               %$
238 }

```

`entry.clip` `\stackstringstring` FIX: `btXHak.dvi` does not tell us the difference between `entry.max$` and `global.max$`. Guess: `global.max$` is the biggest thing `BIBTEX` can deal with internally; `entry.max$` is the biggest thing that can be sent to a `write$`.

`entry.clip` `\stackstring-Sstring-S-possibly-shortened`

Clips a string down to `entry.max$`, if it's longer.

```

239 FUNCTION {entry.clip}
240 { #1 entry.max$ substring$
241 }

```

`check` `\stackS` `warningS` Issues warning if the string is empty.

```

242 FUNCTION {check}
243 { 't :=
244   duplicate$ empty$
245   { "empty " t * " in " * cite$ * warning$
246   }
247   'skip$
248   if$
249 }

```

multi.page.p \stacknothing#0 or #1

Set 't to ' pages. Look at 't character by character for a hyphen, comma, or plus. If we find one, return true immediately; else return false.

```
250 FUNCTION {multi.page.p}
251 { pages 't :=
252   #0 'j :=
253   { j not
254     t empty$ not
255     and
256   }
257   { t #1 #1 substring$
258     duplicate$ "-" =
259     swap$ duplicate$ "," =
260     swap$ "+" =
261     or or
262     { #1 'j :=
263     }
264     { t #2 global.max$ substring$ 't :=
265     }
266     if$
267   }
268 while$
269 j
270 }
```

n.dashify \stackstringstring

Make single-dashes into double-dashes.

```
271 FUNCTION {n.dashify}
272 { 't :=
273   ""
274   { t empty$ not
275   }
276   { t #1 #1 substring$ "-" =
277     { t #1 #2 substring$ "--" = not
278       { "--" *
279         t #2 global.max$ substring$ 't :=
280       }
281       { { t #1 #1 substring$ "-" =
282         }
283       { "-" *
284         t #2 global.max$ substring$ 't :=
285       }
286       while$
287     }
288     if$
289     }
290     { t #1 #1 substring$ *
291       t #2 global.max$ substring$ 't :=
292     }
293     if$
294   }
295 while$          %$
296 }
```

```

tie.or.space.connect \stackstring stringstring
    If the second string has less than 5 characters, the two are tied together,
    otherwise they are catenated with a space between them.
297 FUNCTION {tie.or.space.connect}
298 { duplicate$ text.length$ #5 <
299   { tie
300   }
301   { space
302   }
303   if$
304   swap$ * *
305 }

```

```

either.or.check \stackmsg fieldnull If field is not empty, give a warning appropriate for saying
    this field and an already-existing field can't be both used in the same entry.
306 FUNCTION {either.or.check}
307 { empty$
308   'pop$
309   { "can't use both " swap$ * " fields in " * cite$ * warning$
310   }
311   if$
312 }

```

3.7 Queue functions

Queue functions expect a string on the stack. If it is empty, and the field for which the function is named is nonempty, the string will be replaced with that field. (e.g., ‘author.q’ will put ‘author’ on the stack if ‘author’ is nonempty and the ‘author.q’ was passed an empty string). A chain of queue functions must begin with something on the stack, and will leave the first nonempty field named in the chain on the stack.

Queue functions also increment an integer variable, ‘j’, whenever they are passed an empty string. At the end of the queue, ‘j’ tells us which function in the queue contributed the string that results at the end of the queue, starting with zero for the first queue function after ‘start.a.q’. This value will be stored in the integer entry variable ‘printed.name.type’. In order for this to work, queue functions must always be called in the same order: ‘author’ (‘#0’), ‘editor’ (‘#1’), ‘organization’ (‘#2’), and ‘key’ (‘#3’). For entry types where a certain field should not appear in the queue, use ‘blank.q’ in its place in the order.

Queues are used the above way to generate the string entry variables ‘long.label’, ‘short.label’, and ‘printed.name’, but queue functions are sometimes used individually in an entry-type function, without interest in the value of ‘j’.

‘start.a.q’ must begin a queue. It initializes ‘j’ and passes an empty string to the first queue function.

```

start.a.q
313 FUNCTION {start.a.q}
314 { #-1 'j :=
315   ""
316 }

```

```

    inc.j
    key.q 317 FUNCTION {inc.j}
organization.q 318 { j #1 + 'j :=
    editor.q 319 }
    author.q 320
    blank.q 321 FUNCTION {key.q}
        322 { duplicate$ empty$
        323   { pop$
        324     key field.or.null
        325     inc.j
        326   }
        327   'skip$
        328   if$
        329 }
        330
        331 FUNCTION {organization.q}
        332 { duplicate$ empty$
        333   { pop$
        334     organization field.or.null
        335     inc.j
        336   }
        337   'skip$
        338   if$
        339 }
        340
        341 FUNCTION {editor.q}
        342 { duplicate$ empty$
        343   { pop$
        344     editor field.or.null
        345     inc.j
        346   }
        347   'skip$
        348   if$
        349 }
        350
        351 FUNCTION {author.q}
        352 { duplicate$ empty$
        353   { pop$
        354     author field.or.null
        355     inc.j
        356   }
        357   'skip$
        358   if$
        359 }
        360
        361 FUNCTION {blank.q}
        362 { duplicate$ empty$
        363   'inc.j
        364   'skip$
        365   if$
        366 }

```

check.q \stackstring-S warning-stringstring-S

This should be the final queue command, though it is not a true queue com-

mand, since an extra warning string should be on the top of the stack above the string that has passed along the queue. The warning string should be an English disjunctive list of the queue commands that have come before it, so the user can tell which fields are missing. For example “author, organization, or key” if the queue has been ‘author.q’ ‘blank.q’ ‘organization.q’ ‘key.q’.

If the queue string is empty, ‘check.q’ issues the warning and puts on the stack an emergency string of the first three letters of the L^AT_EX key (i.e., cite\$), which should allow B_IB_TE_X to proceed.

```

367 FUNCTION {check.q}
368 { 't :=
369   duplicate$ empty$
370   { pop$
371     cite$ #1 #3 substring$ 'u :=
372     "Need " t * " in " * cite$ * "; using: " * u * warning$
373     u
374   }
375   'skip$
376   if$
377 }

```

3.8 Format queue functions

Format queue functions may be inserted into a queue with queue functions. If they find an empty string on the stack, they do nothing. If they find a nonempty string, they modify it.

There are 4 cases for the labels, where n is some constant:

one author	Foo
one to n	Foo, Bar, and Baz
use of “and others”	Foo, Bar et al.
more than n	Foo et al.

`format.short.label.names.q` If the string on the stack is empty, do nothing, leaving the empty string there. If passed a nonempty string, format it to produce something appropriate for ‘short.label’.

```

378 FUNCTION {format.short.label.names.q}
379 { duplicate$ empty$
380   'skip$ %$ for emacs
381   { 's :=
382     s num.names$ 'numnames := %$ for emacs
383     s #1 "{vv~}{ll}" format.name$ %$ for emacs

```

This constant is the number of authors over which we use “et al.”. If you change this constant, change some logic below.

```

384     numnames #2 >
385 { etal *
386 }
387 { numnames #1 =
388   'skip$
389   { s #2 "{ff}{vv}{ll}{ jj}" format.name$ "others" =

```

Above, I’m trying a simplification that I think should work. OLD: `snameptr"{ff}{vv}{ll}{jj}"format.name$"others"=`

```

390     { etal *
391     }
392     { " and " * s #2 "{vv~}{ll}" format.name$ *
393     }
394     if$
395     }
396 if$
397 }
398     if$
399     }
400 if$           %$
401 }

```

If you want the short label to have 3 (or more) names in it, use this function. The constant is 3 here.

```

FUNCTION {format.short.label.names.q}
{ duplicate$ empty$           %$
  'skip$                       %$
  { 's :=
    s num.names$ 'numnames :=   %$
    s #1 "{vv~}{ll}" format.name$ %$
  }
% \end{macrocode}
% This constant is the number of authors over which we use "et~al.".
% \begin{macrocode}
  numnames #3 >
  { etal *
  }
  { numnames #1 - 'namesleft :=
    #2 'nameptr :=
    { namesleft #0 >
    }
    { nameptr numnames = % i.e, nameptr points to the last name
      { s nameptr "{ff}{vv}{ll}{jj}" format.name$ "others" =
        { etal *
        }
        { numnames #2 >
          { comma *
          }
          'skip
          if$
          " and " * s nameptr "{vv~}{ll}" format.name$ *
        }
        if$
      }
      { ", " * s nameptr "{vv~}{ll}" format.name$ *
      }
      if$
      nameptr #1 + 'nameptr :=
      namesleft #1 - 'namesleft :=
    }
    while$           %$
  }
  if$
}

```

```

    if$                %$
}

```

`format.long.label.names.q` If the string on the stack is empty, do nothing, leaving the empty string there. If it is nonempty, format it to produce something appropriate for 'long.label'.

```

402 FUNCTION {format.long.label.names.q}
403 { duplicate$ empty$
404   'skip$
405   { 's :=
406     #1 'nameptr :=          % nameptr = 1;
407     s num.names$ 'numnames := % numnames = num.names$(s);
408     numnames 'namesleft :=
409     % begin a WHILE loop
410     { namesleft #0 >
411     }
412     { s nameptr "{vv~}{ll}" format.name$ 't := % get the next name
413       nameptr #1 >
414         { namesleft #1 >
415           { comma * space * t *
416           }
417           { numnames #2 >
418             { comma *
419             }
420             'skip$
421             if$
422             t "others" =
423               { etal *
424               }
425               { " and " * t *
426               }
427             if$
428           }
429           if$
430         }
431         't
432         if$
433         nameptr #1 + 'nameptr :=          % nameptr += 1;
434         namesleft #1 - 'namesleft :=      % namesleft -= 1;
435       }
436       while$
437     }
438   if$                %$
439 }

```

3.9 Format names functions

The format functions modify a string on the stack. They make no warnings, produce no output, and place no spaces or punctuation before or after their string, just modify it somehow.

`format.names.lastfirst` Format a name list. Output first author last name first, and subsequent authors with first name first.

```

440 FUNCTION {format.names.lastfirst}
441 { 's :=
442 #1 'nameptr := % nameptr = 1;
443 s num.names$ 'numnames := % numnames = num.name$(s);
444 numnames 'namesleft :=
445 % begin WHILE loop
446 { namesleft #0 >
447 }
448 { nameptr #1 =
449 { s nameptr "{vv~}{ll}{, jj}{, ff}" format.name$ 't :=
450 }
451 { s nameptr "{ff~}{vv~}{ll}{, jj}" format.name$ 't :=
452 }
453 if$
454 nameptr #1 >
455 { namesleft #1 >
456 { comma * space * t *
457 }
458 { numnames #2 >
459 { comma *
460 }
461 'skip$
462 if$
463 t "others" =
464 { etal *
465 }
466 { " and " * t *
467 }
468 if$
469 }
470 if$
471 }
472 't
473 if$
474 nameptr #1 + 'nameptr := % nameptr += 1;
475 namesleft #1 - 'namesleft := % namesleft -= 1;
476 }
477 while$ %$
478 }

```

`format.names.firstfirst` Same as 'format.names.lastfirst' but all names are first name first.

```

479 FUNCTION {format.names.firstfirst}
480 { 's :=
481 #1 'nameptr := % nameptr = 1;
482 s num.names$ 'numnames := % numnames = num.name$(s);
483 numnames 'namesleft :=
484 { namesleft #0 >
485 }
486 { s nameptr "{ff~}{vv~}{ll}{, jj}" format.name$ 't :=
487 nameptr #1 >
488 { namesleft #1 >
489 { comma * space * t *
490 }
491 { numnames #2 >

```

```

492         { comma *
493       }
494       'skip$
495     if$
496     t "others" =
497       { etal *
498     }
499     { " and " * t *
500   }
501   if$
502 }
503 if$
504 }
505 't
506 if$
507   nameptr #1 + 'nameptr :=      % nameptr += 1;
508   namesleft #1 - 'namesleft := % namesleft -= 1;
509 }
510 while$          %$
511 }

```

3.10 Make functions

Make functions expect nothing on the stack, and leave one string there. Any side effects of setting global variables are noted in the comments. If a nonempty string cannot be made due to lack of the right fields, we simply leave an empty on on the stack.

Notice that ‘make.annotation’ has to be above, before ‘finish.entry’.

make.edition We use some logic here because we want to use the ‘seriesedition’ for the ‘edition’ in certain cases.

```

512 FUNCTION {make.edition}
513 { edition empty$
514   { seriesedition empty$ not series field.or.null title field.or.null = and
515     { seriesedition
516     }
517     { ""
518     }
519     if$          %$
520   }
521   { edition
522   }
523   if$          %$
524 }

```

make.year.month Make a year string. We don’t we use ‘year.label’ because that string is sterilized to make it appropriate for use in running text in citations (and for sorting I think); in the bibliography entry, we can be a little more lax, accepting special characters, and text that is not simply four numerals.

```

525 FUNCTION {make.year.month}
526 { year empty$
527   { ""
528   }

```

```

529     { year year.tag.label *
530 month empty$
531   'skip$
532   { comma * space * month * }
533 if$
534   }
535   if$                               %$
536 }
537 FUNCTION {make.year.nomonth}
538 { year empty$                       %$
539   { ""
540   }
541   { year year.tag.label *
542   }
543   if$                               %$
544 }

```

`make.year.or.oyear.month` Gives a year string. If ‘‘oyear is empty, calls ‘make.year.month’. Warns in almost-certainly-erroneous case of an ‘‘oyear without a ‘‘year.

```

545 FUNCTION {make.year.or.oyear.month}
546 { oyear empty$
547   { make.year.month
548   }
549   { year empty$
550     { "oyear without year in " cite$ * warning$
551     }
552     'skip$
553     if$
554     oyear year.tag.label *
555     month empty$
556     'skip$
557   { comma * space * month *
558   }
559   if$
560   }
561   if$
562 }

```

`make.authors` This is for clarity below. Really we could say ‘printed.name’.

```

563 FUNCTION {make.authors}
564 { printed.name empty$
565   { "empty ‘printed.name’ in ‘make.authors in " cite$ * warning$
566   ""
567   }
568   { printed.name
569   }
570   if$
571 }

```

`make.editors.primary` This is for when the editor is the leading thing in the bibentry. If ‘printed.name’ is empty, we put an empty string on the stack. If ‘printed.name’ is nonempty and differs from ‘‘editor then ‘printed.name’ is a duplicate editor. We *do* want to follow this by a suffix. If they’re the same, then we format the ‘‘editor field, add a suffix, and leave it on the stack.

FIX: I don't think 'printed.name' should ever be empty.

```
572 FUNCTION {make.editors.primary}
573 { printed.name empty$
574   { "empty 'printed.name' in 'make.editors.primary' in " cite$ * warning$
575     ""
576   }
577   { printed.name
578     editor num.names$ #1 >
579     { ",~eds." *
580     }
581     { ",~ed." *
582     }
583     if$
584   }
585   if$
586 }
```

make.editors.secondary This is for making editors' names that follow a title.

```
587 FUNCTION {make.editors.secondary}
588 { editor empty$
589   { ""
590   }
591   { output.state after.sentence =
592     output.state after.block = or
593     { "E" }
594     { "e" }
595     if$
596     "dited by " * editor format.names.firstfirst *
597   }
598   if$ %$
599 }
```

make.bookauthors.secondary This is for making authors' names that follow a title. When we use this, we are only going to be interested in the 'bookauthor.

```
600 FUNCTION {make.bookauthors.secondary}
601 { bookauthor empty$
602   { ""
603   }
604   { output.state after.sentence =
605     output.state after.block = or
606     { "B" }
607     { "b" }
608     if$
609     "y " * bookauthor format.names.firstfirst *
610   }
611   if$
612 }
```

make.translators Translators and illustrators always follow the title.

```
make.illustrators 613 FUNCTION {make.translators}
614 { translator empty$
615   { ""
616   }
```

```

617 { output.state after.sentence =
618   output.state after.block = or
619     { "I" }
620     { "t" }
621   if$
622     "ranslated " *
623     flanguage empty$
624     'skip$
625     { "from the " * flanguage * space *
626     }
627   if$
628     "by " * translator format.names.firstfirst *
629   }
630 if$
631 }
632
633 FUNCTION {make.illustrators}
634 { illustrator empty$
635   { ""
636   }
637   { output.state after.sentence =
638     output.state after.block = or
639       { "I" }
640       { "i" }
641     if$
642       "illustrated by " * illustrator format.names.firstfirst *
643     }
644   if$
645 }

```

make.booktitle.ital

```

make.title.ital 646 FUNCTION {make.title.ital}
make.as.ftitle.ital 647 { title field.or.null italicize
648 }
649
650 FUNCTION {make.booktitle.ital}
651 { booktitle field.or.null italicize
652 }
653
654 FUNCTION {make.as.ftitle.ital}
655 { ftitle empty$
656   { ""
657   }
658   { "as " ftitle italicize *
659   }
660 if$
661 }

```

make.title.doublequote Put the title in quotes on the stack. \Wrapquotes is going to properly handle punctuation that follows the closing quotation marks by sucking it inside the quotes.

```

662 FUNCTION {make.title.doublequote}
663 { title empty$
664   { ""

```



```

665     }
666     {
667     "\Wrapquotes{" title * "}" *
668     }
669     if$
670 }

671 FUNCTION {make.pages}
672 { pages empty$
673   { ""
674   }
675   { multi.page.p
676     { pages n.dashify
677     }
678     { pages
679     }
680     if$
681   }
682   if$                                %$
683 }

```

ke.vol.series.num.month.pages

For articles, the number of cases to handle these fields is very large: 32 to do it properly! These cases could perhaps be collapsed, but it is going to be much easier to read here and to maintain if we do it brutishly by elaborating each case. The only exception I've made is when two adjacent leaves are very similar. The way I've laid out this function here, adjacent leaves are going to be the pairs of cases with and without a nonempty " pages.

There are 5 relevant fields, each of which can be empty or not ($2^5 = 32$). In the comments below, I mark each case with a series of 1 to 5 letters represent the cases where that field is nonempty: V for " volume, S for " series, N for " number, M for " month, and P for " pages. Thus, the case marked with the comment SMP is the one where the " series, " month, and " pages fields are nonempty, and " volume and " number are empty.

FIX: when I use 'make.pages' in this function, it's slightly inefficient, since 'make.pages' does a check for empty pages which is unnecessary here.

FIX: this does not yet handle entries with nonempty " series.

FIX: go through and combine adjacent leaves.

We could really put the punctuation that should precede this unit right at the beginning of the string we're making here, but let's conform better to the conventions and put this in the scratch variable 'u instead. I don't think this function will ever get called at any time other than mid-sentence, after the journal title, but who knows. So a call to this function should look like:

```
make.vol.series.num.month.pages u output
```

Remember that when 'output.internal' writes the punctuation, it adds a space following, so it is unnecessary to begin the string this function returns with a space. (Occasionally below, we want (and produce) a colon followed by no space; we can do this because we are directly creating this string, not using the 'output' routine.)

```

684 FUNCTION {make.vol.series.num.month.pages}
685 { volume empty$
686   { series empty$

```

```

687     { number empty$
688     { month empty$
689 { pages empty$
690         % none of VSNMP
691     { space 'u :=
692         ""
693     }
694         % P
695     { comma 'u :=
696         multi.page.p
697         { "pp." pages n.dashify
698 }
699         { "p." pages
700 }
701         if$
702         tie.or.space.connect
703     }
704 if$
705 }
706 { pages empty$
707         % M
708     { comma 'u :=
709         month
710     }
711         % MP
712     { comma 'u :=
713         month comma * space * make.pages *
714     }
715 if$
716 }
717     if$
718     }
719     { month empty$
720 { pages empty$
721         % N
722     { comma 'u :=
723         "no." number tie.or.space.connect
724     }
725     % NP
726     { comma 'u :=
727         "no." number colon * make.pages * tie.or.space.connect
728     }
729 if$
730 }
731 { pages empty$
732     % NM
733     { comma 'u :=
734         "no." number tie.or.space.connect
735         space * month parenthesize *
736     }
737     % NMP
738     { comma 'u :=
739         "no." number tie.or.space.connect
740         space * month parenthesize *

```

```

741             colon * space * make.pages *
742         }
743     if$
744 }
745     if$
746     }
747     if$
748         }
749         { number empty$
750     { month empty$
751 { pages empty$
752     % S
753     {
754     }
755     % SP
756     {
757     }
758     if$
759 }
760 { pages empty$
761     % SM
762     {
763     }
764     % SMP
765     {
766     }
767     if$
768 }
769     if$
770     }
771     { month empty$
772 { pages empty$
773     % SN
774     {
775     }
776     % SNP
777     {
778     }
779     if$
780 }
781 { pages empty$
782     % SNP
783     {
784     }
785     % SNMP
786     {
787     }
788     if$
789 }
790     if$
791     }
792     if$
793         }
794     if$

```

```

795     }
796     { series empty$
797       { number empty$
798       { month empty$
799 { pages empty$
800   % V
801   { comma 'u :=
802                                     "vol." volume tie.or.space.connect
803   }
804   % VP
805   { space 'u :=
806                                     volume colon * make.pages *
807   }
808   if$
809 }
810 { pages empty$
811   % VM
812   { comma 'u :=
813                                     "vol." volume tie.or.space.connect
814                                     space * month parenthesize *
815   }
816   % VMP
817   { space 'u :=
818                                     volume space *
819                                     month parenthesize * colon * space * make.pages *
820   }
821   if$
822 }
823     if$
824     }
825     { month empty$
826 { pages empty$
827   % VN
828   { space 'u :=
829                                     volume ", no." number tie.or.space.connect *
830   }
831   % VNP
832   { space 'u :=
833                                     volume space *
834                                     number parenthesize * colon * space * make.pages *
835   }
836   if$
837 }
838 { pages empty$
839   % VNM
840   { space 'u :=
841                                     volume ", no." number tie.or.space.connect *
842                                     space * month parenthesize *
843   }
844   % VNMP
845   { space 'u :=
846                                     volume space * number parenthesize * colon * space *
847                                     make.pages * space * month parenthesize *
848   }

```

```

849 if$
850 }
851     if$
852     }
853 if$
854     }
855     { number empty$
856     { month empty$
857 { pages empty$
858     % VS
859     {
860     }
861     % VSP
862     {
863     }
864 if$
865 }
866 { pages empty$
867     % VSM
868     {
869     }
870     % VSMP
871     {
872     }
873 if$
874 }
875     if$
876     }
877     { month empty$
878 { pages empty$
879     % VSN
880     {
881     }
882     % VSNP
883     {
884     }
885 if$
886 }
887 { pages empty$
888     % VSNM
889     {
890     }
891     % VSNMP
892     {
893     }
894 if$
895 }
896     if$
897     }
898 if$
899     }
900     if$
901     }
902 if$                                %$

```

```
903 }
```

make.crossref

```
904 FUNCTION {make.crossref}
905 { "\citeNP{" crossref * "}" *
906 }
```

output.series.number Outputs the number with appropriate capitalization. Warns if we also have nonempty 'seriesedition.

```
907 FUNCTION {output.series.number}
908 { series empty$
909   { number empty$
910     { ""
911     }
912     { "Can't use 'number' without 'series' in " cite$ * warning$
913     ""
914     }
915     if$
916   }
917   { number empty$
918   { series
919     seriesedition empty$
920     'skip$
921     { comma output
922       new.block
923       seriesedition
924     }
925     if$
926   }
927   { series space *
928     "no." *
929     number tie.or.space.connect
930     "number and seriesedition" seriesedition either.or.check
931   }
932     if$
933   }
934   if$ %$
935   comma output
936 }
```

output.volume.series The 'series is not required.

```
937 FUNCTION {output.volume.series}
938 { volume empty$
939   { ""
940   }
941   { "Volume" volume tie.or.space.connect
942     series empty$
943     'skip$
944     { " of " * series italicize *
945       seriesedition empty$
946       'skip$
947     { comma output
948       new.block
949       seriesedition
```

```

950         }
951         if$
952     }
953     if$
954     "volume and number" number either.or.check
955 }
956 if$
957 comma output
958 }

```

`make.chapter.of` To say for example “Part 3” instead of “Chapter 3”, put “Part” into the ‘ type field, and the number and the preposition into the ‘ chapter field, e.g., “3 of”. A tie is automatically put in between the ‘ type field and the ‘ chapter field in this case. We can’t make a decision based on the length of the ‘ chapter field when it’s going to contain the preposition.

OK, putting the preposition in the chapter field doesn’t work out when you do crossreferences. So let’s try “of” as a general preposition.

```

959 FUNCTION {make.chapter.of}
960 { chapter empty$
961   { ""
962   }
963   { type empty$
964     { "Chapter"
965     }
966     { type "t" change.case$
967     }
968     if$
969     chapter tie.or.space.connect
970     " of " *
971   }
972 if$
973 }

```

`make.chapter`

```

974 FUNCTION {make.chapter}
975 { chapter empty$
976   { ""
977   }
978   { type empty$
979     { "Chapter"
980     }
981     { type "t" change.case$
982     }
983     if$
984     chapter tie.or.space.connect
985   }
986 if$
987 }

```

`make.number.tr`

```

988 FUNCTION {make.number.tr}
989 { type empty$
990   { "Technical Report"

```

```

991     }
992     { type "t" change.case$
993     }
994   if$
995   number empty$
996     'skip$
997     { number tie.or.space.connect
998     }
999   if$
1000 }

```

3.11 Label functions

`calc.labels` Sets ‘short.label’, ‘long.label’ and ‘year.label’ from the original database. Should
`set.printed.name.type` only need to be called once. We also set ‘printed.name.type’ to an appropriate
value, but we do not set ‘printed.name’, that’s done later.

Warning: *If this logic with regard to what is used as the printed name does not correspond to what’s actually implemented in each entry-type function, I think you are going to get some weird errors, like ‘make.author’ and ‘make.editors’ are not going to give you what you expect.*

```

1001 FUNCTION {set.printed.name.type}
1002 { j 'printed.name.type :=
1003 }
1004
1005 FUNCTION {calc.labels}
1006 { type$ "book" =
1007   type$ "inbook" =
1008   or
1009     { start.a.q
1010       author.q
1011       editor.q
1012       format.short.label.names.q
1013       blank.q
1014       key.q
1015       set.printed.name.type
1016       "author, editor, or key to make ‘short.label’" check.q
1017     }
1018   { type$ "proceedings" =
1019     { start.a.q
1020       blank.q
1021       editor.q
1022       format.short.label.names.q
1023       organization.q
1024       key.q
1025       set.printed.name.type
1026       "editor, organization, or key to make ‘short.label’" check.q
1027     }
1028   { type$ "manual" =
1029     { start.a.q
1030       author.q
1031       format.short.label.names.q
1032       blank.q
1033       organization.q

```



```

1034         key.q
1035         set.printed.name.type
1036         "author, organization, or key to make 'short.label'" check.q
1037     }

```

Default case. FIX: have I got all the right cases covered?

```

1038     { start.a.q
1039     author.q
1040     format.short.label.names.q
1041     blank.q
1042     blank.q
1043     key.q
1044     set.printed.name.type
1045     "author or key to make 'short.label'" check.q
1046     }
1047     if$
1048     }
1049     if$
1050     }
1051     if$
1052     'short.label :=
1053
1054     start.a.q
1055     author.q
1056     editor.q
1057     format.long.label.names.q
1058     organization.q
1059     key.q
1060     "author, editor, organization, or key to make 'long.label'" check.q
1061     'long.label :=
1062
1063     oyear empty$
1064     { year
1065     }
1066     { oyear
1067     }
1068     if$
1069     field.or.null purify$ #-1 #4 substring$           %$
1070     'year.label :=
1071 }

```

3.12 Entry types

3.12.1 Article

article An article from a journal or magazine. Required: ‘ author, ‘ title, ‘ journal, ‘ year. Optional: ‘ volume, ‘ number, ‘ pages, ‘ month, ‘ note. Title quoted.

FIX: this is not true any more. hmm, which warnings to give? Warnings given for no ‘ pages; no ‘ volume or ‘ number; and ‘ number but no ‘ volume. It’s a drag, but the latter warning should remain there. The reason is that this bibstyle will produce a very misleading entry if you mistakenly omit the volume and give a number for a journal.

FIX: this is the old def of article, following output of title through end of

crossref conditional.

```
        volume field.or.null
%   \end{macrocode}
% One item (the volume) is on the stack now. Each of the four cases in the
% following conditionals should leave a second item on the stack.
%   \begin{macrocode}
    number empty$
      { volume empty$
        { "empty volume and number in " cite$ * warning$
          ""
        }
        { colon
        }
      }
    if$
  }
  { volume empty$
    { "number but no volume in " cite$ * warning$
  }
%   \end{macrocode}
% FIX when a journal has no volume but a number, there should be a comma after
% the journal, a space and then ‘no. n:ppp’. But we have already said
% ‘space output’ after the journal name, no doubt. So we have to make this
% decision earlier.
%   \begin{macrocode}
      "\unskip, no." tie * number * colon *
    }
    { "(" number * ")" * tie.or.space.connect
%   \end{macrocode}
% FIX: I don't think this is handling the case without pages right -- there
% will be a colon with nothing following. I could save either colon or
% colon+space in a variable, and slap it on before the pages if there are pages
% and leave it off if there are no pages. Hmm, no: see chicago:14, item 15.215
% for how to handle missing pages. Not easy.
%
% Now there's just one item (the volume) on the stack, so leave the following
% as the second item.
%   \begin{macrocode}
      colon space *
    }
  }
  if$ *
  make.pages "pages" check *
  space output
  month parenthesize space output
```

A crossref from an article says “See this, pages xxx.” See the *Chicago Manual* 16:107 for this peculiar bit about the spacing after the colon.

```
1072 FUNCTION {article}
1073 { begin.entry
1074   make.authors "author" check key.q space output
1075   new.block
1076   make.year.nomonth "year" check space output
1077   new.block
```

```

1078 make.title.doublequote "title" check space output
1079 new.block
1080 crossref empty$
1081 { journal italicize "journal" check space output
1082   series empty$
1083   'skip$

```

FIX: take this out when we finish 'make.vol.series...'

```

1084     { "ARTICLE NOT SET UP FOR NONEMPTY SERIES! in " cite$ * warning$
1085     }
1086   if$
1087   volume empty$ number empty$ month empty$ pages empty$ and and and
1088     { "empty volume, number, month, and pages in " cite$ * warning$
1089     }
1090   'skip$
1091   if$

```

See definition of 'make.vol.series.num.month.pages' for why we set 'u' in that function.

```

1092     make.vol.series.num.month.pages u output
1093   }

```

Unusual case where you are probably citing one journal issue and numerous articles within it, so you have one entry for the issue itself, and others referring to it. Perhaps there are other cases, but I think what's right here is to give the crossref and only the pages.

```

1094     { "In " make.crossref * space output
1095     make.pages "pages" check comma output
1096     }
1097   if$
1098   new.block
1099   note space output
1100   finish.entry
1101 }

```

3.12.2 Book

book

```

1102 FUNCTION {book}
1103 { begin.entry
1104   author empty$
1105   { make.editors.primary "author and editor" check comma output
1106   }
1107   { make.authors comma output
1108   }
1109   if$
1110   new.block
1111   make.year.or.oyear.month "year" check comma output
1112   new.block
1113   make.title.ital "title" check comma output
1114   new.block
1115   make.edition comma output
1116   new.block
1117   crossref empty$
1118   { volume empty$

```

```

1119     { output.series.number
1120     }
1121     { output.volume.series
1122     }
1123   if$
1124   editor empty$ author empty$ or
1125     'skip$
1126     { new.block
1127       make.editors.secondary comma output
1128     }
1129   if$
1130   new.block
1131   make.translators comma output
1132   new.block
1133   make.illustrators comma output
1134   new.block
1135   oyear empty$
1136     { address comma output
1137       publisher "publisher" check colon output
1138     }
1139     { oaddress comma output
1140       opublisher "opublisher" check colon output
1141       new.block
1142       "Reprint" comma output
1143       address field.or.null comma output
1144       publisher "publisher" check
1145       address empty$
1146         { comma
1147         }
1148         { colon
1149         }
1150       if$
1151       output
1152       year "year" check comma output
1153     }
1154   if$
1155 }
1156 { volume empty$
1157   { "In "
1158   }
1159   { "Volume" volume tie.or.space.connect
1160     " of " *
1161   }
1162   if$
1163   make.crossref * comma output
1164 }
1165 if$
1166 new.block
1167 yearcomp empty$
1168 'skip$
1169 { "Composed in " yearcomp *
1170   comma output
1171   new.block
1172 }

```

```

1173 if$
    The ‘ fyear must be nonempty to get any information about the first-published
    edition,
    The ‘ fpublisher, ‘ faddress, and ‘ flanguage can be empty in any combina-
    tion. They are all ignored if ‘ fyear is empty, except for possibly ‘ flanguage,
    which will be given with the translator if ‘ translator is nonempty.
1174 fyear empty$
1175     'skip$
1176     { "First published "
1177         translator empty$ flanguage empty$ not and
1178         { "in " * flanguage * space *
1179         }
1180     'skip$
1181     if$
    If ‘ ftitle is empty, there will be a harmless? extra space.
1182     make.as.ftitle.ital * space output
1183     faddress empty$ fpublisher empty$ not and
1184         { "by "
1185         }
1186         { "in "
1187         }
1188     if$
1189     space output
1190     faddress space output
1191     fpublisher
1192     faddress empty$
1193         { space
1194         }
1195         { colon
1196         }
1197     if$
1198     output
1199     fyear
1200     faddress empty$ fpublisher empty$ and
1201         { space
1202         }
1203         { comma
1204         }
1205     if$ output
1206     new.block
1207 }
1208 if$                                     %$
1209     note comma output
1210     finish.entry
1211 }

```

3.12.3 Inbook

inbook The *Chicago Manual* doesn't seem to recognize parts of a book without their own titles. We make up our own version, moving the chapter and page information from the end of the ‘ booktitle to the front.

```
1212 FUNCTION {inbook}
```

```

1213 { begin.entry
1214   author empty$
1215   { make.editors.primary "author and editor" check comma output
1216     }
1217   { make.authors comma output
1218     }
1219   if$
1220   new.block
1221   make.year.or.oyear.month "year" check comma output
1222   new.block

```

We store an extra copy of ‘make.chapter.of’ in the variable ‘u’ here, so that we know whether to put pages or not after the ‘‘title sentence (with editors, and so on).

```

1223   crossref empty$
1224     { make.chapter.of duplicate$ 'u :=
1225       duplicate$ empty$
1226         { pop$
1227           pages empty$
1228             { "empty chapter, type, and pages in " cite$ * warning$
1229               "In "
1230             }
1231             { "Pages " make.pages * " in " *
1232             }
1233           if$
1234         }
1235       'skip$
1236     if$
1237     comma output
1238     make.title.ital "title" check space output
1239     make.bookauthors.secondary comma output
1240     make.editors.secondary comma output
1241     volume empty$
1242       { output.series.number
1243       }
1244       { output.volume.series
1245       }
1246     if$
1247     make.edition comma output

```

Here we branch again on the contents of ‘make.chapter.of’. If it is not empty, then we go ahead and ‘make.pages’. If it is empty we don’t, because this means that if ‘‘pages were given, they have already been put earlier.

```

1248     u empty$
1249     'skip$
1250     { make.pages comma output
1251     }
1252     if$
1253     new.block
1254     make.translators comma output
1255     new.block
1256     make.illustrators comma output
1257     new.block
1258     oyear empty$
1259     { address comma output

```

```

1260     publisher "publisher" check colon output
1261   }
1262   { oaddress comma output
1263     opublisher "opublisher" check colon output
1264     new.block
1265     "Reprint" comma output
1266     address field.or.null comma output
1267     publisher "publisher" check
1268     address empty$
1269       { comma
1270         }
1271       { colon
1272         }
1273     if$
1274     output
1275     year "year" check comma output
1276   }
1277   if$
1278 }
1279 { "In " make.crossref * comma output
1280   make.chapter comma output
1281   make.pages comma output
1282   chapter empty$ pages empty$ and
1283     { "empty chapter and pages in " cite$ * warning$
1284       }
1285     'skip$
1286   if$
1287 }
1288 if$
1289 new.block
1290 note comma output
1291 finish.entry
1292 }

```

3.12.4 Incollection

incollection

```

1293 FUNCTION {incollection}
1294 { begin.entry
1295   author empty$
1296     { make.editors.primary "author and editor" check space output
1297       }
1298     { make.authors space output
1299       }
1300   if$
1301   new.block
1302   make.year.or.oyear.month "year" check space output
1303   new.block
1304   make.title.doublequote "title" check space output
1305   new.block
1306   crossref empty$
1307     { make.chapter.of duplicate$ empty$
1308       { pop$
1309         "In "

```

```

1310     }
1311     'skip$
1312   if$
1313   space output
1314   make.booktitle.ital "booktitle" check space output
1315   make.bookauthors.secondary comma output
1316   make.editors.secondary comma output
1317   volume empty$
1318     { output.series.number
1319     }
1320     { output.volume.series
1321     }
1322   if$
1323   make.edition comma output
1324 % FIX: do I need this? I don't for copleston:cusa
1325 %     make.year.or.oyear.month "year" check comma output
1326   make.pages comma output
1327   chapter empty$ type empty$ and pages empty$ and
1328     { "empty chapter, type, and pages in " cite$ * warning$
1329     }
1330   'skip$
1331   if$
1332   new.block
1333   make.translators space output
1334   new.block
1335   make.illustrators space output
1336   new.block
1337   oyear empty$
1338     { address space output
1339     publisher "publisher" check colon output
1340     }
1341     { oaddress space output
1342     opublisher "opublisher" check colon output
1343     new.block
1344     "Reprint" comma output
1345     address comma output
1346     publisher "publisher" check
1347     address empty$
1348     { comma
1349     }
1350     { colon
1351     }
1352     if$
1353     output
1354     year comma output
1355   }
1356   if$
1357 }
1358 { new.block
1359 "In " make.crossref * space output
1360 make.chapter comma output
1361 make.pages comma output
1362 chapter empty$ pages empty$ and
1363 { "empty chapter and pages in " cite$ * warning$

```



```

1364     }
1365     'skip$
1366     if$
1367   }
1368   if$
1369   new.block
1370   note space output
1371   finish.entry
1372 }

```

3.12.5 Majorthesis

`format.thesis` Theses are all set in the same way, with a different type name. An entry with entry type `'thesis'` ought to have a nonempty `""` type. The other four alias entry types `phdthesis`, `mastersthesis`, `majorthesis`, and `minorthesis` simply supply an explicit value for `""` type, which are overridden by a nonempty `""` type.

`majorthesis` FIX The `""` type field should be hooked into a variable and done with the `babel` package: `\majorthesisname` and so on.

```

1373 FUNCTION {format.thesis}
1374 { 'u :=
1375   begin.entry
1376   make.authors "author" check key.q space output
1377   new.block
1378   make.year.month "year" check space output
1379   new.block
1380   make.title.doublequote "title" check space output
1381   new.block
1382   u "type" check space output
1383   school "school" check comma output
1384   address comma output
1385   new.block
1386   note space output
1387   finish.entry
1388 }
1389 FUNCTION {thesis}
1390 { type field.or.null format.thesis
1391 }
1392 FUNCTION{mastersthesis}
1393 { type empty$
1394   { "Master's thesis"
1395   }
1396   { type
1397   }
1398   if$
1399   format.thesis
1400 }
1401 FUNCTION {minorthesis}
1402 { mastersthesis
1403 }
1404 FUNCTION {phdthesis}
1405 { type empty$
1406   { "Ph.D.~diss."
1407   }

```

```

1408     { type
1409     }
1410   if$
1411   format.thesis
1412 }
1413 FUNCTION {majorthesis}
1414 { phdthesis
1415 }

```

3.12.6 Manual

manual Technical documentation. Required: ‘ title (italicized). Optional: ‘ author or ‘ organization or ‘ key, ‘ address, ‘ edition, ‘ month, ‘ year, ‘ note. Logic: lead item is first nonempty field of ‘ author, ‘ organization, and ‘ key. Subsequent nonempty fields in that list are ignored.

```

1416 FUNCTION {manual}
1417 { begin.entry
1418   printed.name space output
1419   new.block
1420   make.year.month space output
1421   new.block
1422   make.title.ital "title" check comma output
1423   new.block
1424   make.edition comma output
1425   new.block
1426   address space output
1427   organization colon output
1428   new.block
1429   note space output
1430   finish.entry
1431 }

```

3.12.7 Booklet

booklet A work that is printed and bound, but without a named publisher or sponsoring institution. Required: ‘ title. Optional: ‘ author, ‘ howpublished, ‘ address, ‘ month, ‘ year, ‘ note. Title is quoted. ‘ key used if ‘ author is empty.

```

1432 FUNCTION {booklet}
1433 { begin.entry
1434   make.authors key.q comma output
1435   new.block
1436   make.year.month space output
1437   new.block
1438   make.title.doublequote "title" check comma output
1439   new.block
1440   howpublished space output
1441   address comma output
1442   new.block
1443   note space output
1444   finish.entry
1445 }

```

3.12.8 Inproceedings

inproceedings An article in a conference proceedings. Required: ‘ author, ‘ title, ‘ booktitle,
conference ‘ year. Optional: ‘ editor, ‘ volume or ‘ number, ‘ series, ‘ pages, ‘ address,
‘ month, ‘ organization, ‘ publisher, ‘ note. ‘ key used where ‘ author empty.
Title quoted.

```
1446 FUNCTION {inproceedings}
1447 { begin.entry
1448   make.authors "author" check key.q space output
1449   new.block
1450   make.year.month "year" check space output
1451   new.block
1452   make.title.doublequote "title" check space output
1453   new.block
1454   crossref empty$
1455     { make.editors.secondary space output
1456       make.booktitle.ital "booktitle" check comma output
1457       volume empty$
1458         { output.series.number
1459           }
1460         { output.volume.series
1461           }
1462       if$
1463       make.edition comma output
1464       new.block
1465       organization space output
1466       address space output
1467       publisher colon output
1468       make.pages comma output
1469     }
1470   { "In " make.crossref * space output
1471     make.chapter comma output
1472     make.pages comma output
1473     chapter empty$ pages empty$ and
1474     { "empty chapter and pages in " cite$ * warning$
1475       }
1476     'skip$
1477     if$
1478   }
1479   if$
1480   new.block
1481   note space output
1482   finish.entry
1483 }
1484 FUNCTION {conference}
1485 { inproceedings
1486 }
```

3.12.9 Proceedings

proceedings The proceedings of a conference. Required: ‘ title, ‘ year. Optional: ‘ editor, ‘
volume or ‘ number, ‘ series, ‘ address, ‘ month, ‘ organization, ‘ publisher, ‘
note. ‘ key used for empty ‘ editor. Title italicized.

```

1487 FUNCTION {proceedings}
1488 { begin.entry
1489   make.editors.primary key.q space output
1490   new.block
1491   make.year.month "year" check space output
1492   new.block
1493   make.title.ital "title" check comma output
1494   new.block
1495   make.edition comma output
1496   new.block
1497   volume empty$
1498     { output.series.number
1499     }
1500     { output.volume.series
1501     }
1502   if$
1503   new.block
1504   organization space output
1505   address comma output
1506   publisher colon output
1507   new.block
1508   note comma output
1509   finish.entry
1510 }

```

3.12.10 Misc

Required: *none*. The rest are optional. First “ author (“ key if empty). Then “ year with “ month. Then “ title, quoted. Then “ howpublished. Then “ note.

```

1511 FUNCTION {misc}
1512 { begin.entry
1513   make.authors key.q space output
1514   new.block
1515   make.year.month space output
1516   new.block
1517   title space output
1518   new.block
1519   howpublished comma output
1520   new.block
1521   note space output
1522   finish.entry
1523 }

```

3.12.11 Techreport

techreport A report published by a school or other institution, usually numbered within a series. Required: “ author, “ title, “ institution, “ year. Optional: “ type, “ number, “ address, “ month, “ note. “ key used when “ author empty.

```

1524 FUNCTION {techreport}
1525 { begin.entry
1526   make.authors "author" check key.q comma output
1527   new.block
1528   make.year.month "year" check comma output

```

```

1529 new.block
1530 make.title.doublequote "title" check comma output
1531 new.block
1532 make.number.tr comma output
1533 institution "institution" check comma output
1534 address comma output
1535 new.block
1536 note comma output
1537 finish.entry
1538 }

```

3.12.12 Unpublished

unpublished A document having an author and title, but not formally published. Required: ‘ author, ‘ title, ‘ note. Optional: ‘ month, ‘ year. Uses ‘ key for no ‘ author.

```

1539 FUNCTION {unpublished}
1540 { begin.entry
1541   make.authors "author" check key.q space output
1542   new.block
1543   make.year.month space output
1544   new.block
1545   make.title.doublequote "title" check space output
1546   new.block
1547   note "note" check space output
1548   finish.entry
1549 }

```

3.12.13 Default

default.type

```

1550 FUNCTION {default.type}
1551 { misc }

```

3.13 Sorting

sortify Prepare the string on the stack for sort comparison $\backslash\text{stack}\langle\text{string}\rangle\langle\text{string}\rangle$

```

1552 FUNCTION {sortify}
1553 { purify$
1554   "1" change.case$
1555 }

```

chop.word $\backslash\text{stack}\langle\text{string}\rangle\langle\text{num}\rangle\langle\text{string}\rangle\langle\text{string}\rangle$

```

% stack: S n T
%
% if S = substr(1,n,T)
%   then substr(n+1, max, T)
%   else S
%
% if T begins with S, then chop it off the beginning of T.
%

```

```

1556 FUNCTION {chop.word}
1557 { 't :=
1558   'len :=
1559   t #1 len substring$ =
1560   { t len #1 + global.max$ substring$
1561   }
1562   't
1563   if$
1564 }

```

sort.format.names \stack<list of names><list of names suitable for sorting>

```

1565 FUNCTION {sort.format.names}
1566 { 's :=
1567   #1 'nameptr :=
1568   ""
1569   s num.names$ 'numnames :=
1570   numnames 'namesleft :=
1571   { namesleft #0 >
1572   }
1573   { nameptr #1 >
1574     { " " *
1575     }
1576     'skip$
1577     if$
1578     s nameptr "{vv{ } }{ll{ } }{ f{ } }{ jj{ } }" format.name$ 't :=
1579     nameptr numnames = t "others" = and
1580     { etal *
1581     }
1582     { t sortify *
1583     }
1584     if$
1585     nameptr #1 + 'nameptr :=
1586     namesleft #1 - 'namesleft :=
1587   }
1588   while$
1589 }

```

make.title.sort FIX: explain why we do all this.

```

1590 FUNCTION {make.title.sort}
1591 { title field.or.null
1592   't :=
1593   "A " #2
1594   "An " #3
1595   "The " #4 t chop.word
1596   chop.word
1597   chop.word
1598   sortify
1599   #1 global.max$ substring$          %$
1600 }

```

make.author.sort Put an author-sort string on the stack. If there is no ‘ author field, use the ‘ key field.

```

1601 FUNCTION {make.author.sort}
1602 { author empty$

```

```

1603     { key empty$
1604         { "to sort, need author or key in " cite$ * warning$
1605             ""
1606         }
1607         { key sortify
1608         }
1609     if$
1610 }
1611 { author sort.format.names
1612 }
1613 if$           %$
1614 }

```

`make.author.editor.sort` Put an author-or-editor sort string on the stack. If there is no ‘‘ author field, use the ‘‘ editor field. If there is no ‘‘ editor field either, use the ‘‘ key field.

```

1615 FUNCTION {make.author.editor.sort}
1616 { author empty$
1617     { editor empty$
1618         { key empty$
1619             { "to sort, need author, editor, or key in " cite$ * warning$
1620                 ""
1621             }
1622             { key sortify
1623             }
1624         if$
1625         }
1626         { editor sort.format.names
1627         }
1628     if$
1629 }
1630 { author sort.format.names
1631 }
1632 if$           %$
1633 }

```

`make.author.organization.sort` Put an author-or-organization-sort string on the stack. If there is no ‘‘ author field, use the ‘‘ organization field. If there is no ‘‘ organization field either, use the ‘‘ key field.

```

1634 FUNCTION {make.author.organization.sort}
1635 { author empty$
1636     { organization empty$
1637         { key empty$
1638             { "to sort, need author, organization, or key in " cite$ * warning$
1639                 ""
1640             }
1641             { key sortify
1642             }
1643         if$
1644         }
1645         { organization sortify
1646         }
1647     if$
1648 }
1649 { author sort.format.names

```

```

1650     }
1651   if$
1652 }

```

`make.editor.organization.sort` Put an editor-or-organization-sort string on the stack. If there is no “editor field, use the “organization field. If there is no “organization field either, use the “key field.

```

1653 FUNCTION {make.editor.organization.sort}
1654 { editor empty$
1655   { organization empty$
1656     { key empty$
1657       { "to sort, need editor, organization, or key in " cite$ * warning$
1658         ""
1659       }
1660       { key sortify
1661       }
1662     if$
1663   }
1664   { organization sortify
1665   }
1666 if$
1667 }
1668 { editor sort.format.names
1669 }
1670 if$           %$
1671 }

```

`presort` **To do:** confirm this with the manual, 15.65.

Set labels ‘long.label’, ‘short.label’, and ‘year.label’. Set `sort.key$` to ‘long.label’ + ‘year.label’ + X + title, where X is a string involving the author, editor, organization, or key, depending on the entry type.

Note that ‘year.tag.label’ is not set yet.

FIX: Why do we insert four spaces between those elements?

```

1672 FUNCTION {presort}
1673 { calc.labels
1674   long.label sortify
1675   " " *
1676   year.label *
1677   " " *
1678   type$ "book" = type$ "inbook" = or
1679   'make.author.editor.sort
1680   { type$ "proceedings" =
1681     'make.editor.organization.sort
1682     { type$ "manual" =
1683       'make.author.organization.sort
1684       % default case:
1685       'make.author.sort
1686     if$
1687   }
1688   if$
1689 }
1690 if$
1691 *

```



```

1692 " " *
1693 make.title.sort *
1694 entry.clip
1695 'sort.key$ :=
1696 }

```

initialize.extra.label.stuff

```

1697 FUNCTION {initialize.label.vars}
1698 { unidentified 'last.long.label :=
1699   unidentified 'last.long.year.label :=
1700   "" 'following.year.tag.label :=
1701   #0 'last.year.tag.num :=
1702 }

```

forward.pass Pass through the new list, comparing current entry's 'long.label' plus 'year.label' to the last entry's, stored in the global variable 'last.long.year.label'. If they are the same, increment 'last.year.tag.num' and set 'year.tag.label' to the *n*th lowercase letter, where *n* is the global integer variable 'last.year.tag.num'. If they are not the same, set 'last.long.year.label' to the current 'long.label' plus 'year.label', set 'year.tag.label' to nil, and set 'last.year.tag.num' to 0.

After this pass, 'year.tag.label' will be blank for all first entries, and "b," "c," etc. for second entries, third entries, and so on. The "a"'s will be added in the right places by the reverse pass.

We also use the forward pass to set the proper value of 'printed.name'. Let *S* be the value of the field indicated by 'printed.name.type'. Then 'printed name will be \SCduplicate{*S*} whenever the current 'long.label' is the same as the global variable 'last.long.label', or simply a copy of *S* otherwise.

```

1703 FUNCTION {make.printed.name}
1704 { printed.name.type #0 =
1705   { author field.or.null format.names.lastfirst
1706   }
1707   { printed.name.type #1 =
1708     { editor field.or.null format.names.lastfirst
1709     }
1710     { printed.name.type #2 =
1711       { organization field.or.null
1712       }
1713       { key field.or.null
1714       }
1715       if$
1716     }
1717     if$
1718   }
1719   if$
1720 }
1721
1722 FUNCTION {forward.pass}
1723 { long.label year.label * entry.clip
1724   duplicate$ last.long.year.label =
1725     % same as last entry
1726     { pop$
1727       last.year.tag.num #1 + 'last.year.tag.num :=
1728       last.year.tag.num int.to.chr$ 'year.tag.label :=

```

```

1729     }
1730     % different from last entry
1731     { "a" chr.to.int$ 'last.year.tag.num :=
1732       "" 'year.tag.label :=
1733       'last.long.year.label :=
1734     }
1735   if$

```

FIX: Handle repeated “ organization and “ key.

Above, we compared the current entry’s ‘long.label’ plus ‘year.label’ to the last entry’s. Here we just compare ‘long.label’. FIX: Hmm, I don’t think ‘long.label’ is ever going to be ‘unidentified’ here. I’m commenting out this logic.

```

1736   long.label entry.clip
1737   duplicate$ unidentified =
1738   { pop$
1739     unidentified 'last.long.label :=
1740     make.printed.name 'printed.name :=
1741   }
1742   {
1743     duplicate$ last.long.label =
1744     { pop$
1745       "\SCduplicate{" make.printed.name * "}" *
1746     }
1747     { 'last.long.label :=
1748       make.printed.name
1749     }
1750   if$
1751     'printed.name :=
1752   }
1753   if$
1754 }

```

reverse.pass Pass through the entries in reverse order. Set current ‘year.tag.label’ to “a” on entries that precede ones with “b”s. Set ‘following.year.tag.label’ to the current ‘year.tag.label’.

```

1755 FUNCTION {reverse.pass}
1756 { following.year.tag.label "b" =
1757   { "a" 'year.tag.label :=
1758   }
1759   'skip$
1760 if$
1761   year.tag.label 'following.year.tag.label :=
1762 }

```

begin.bib These two functions are called to begin and end the entire bibliography.

```

end.bib 1763 FUNCTION {begin.bib}
1764 { preamble$ empty$
1765   'skip$
1766   { preamble$ write$ newline$
1767   }
1768 if$
1769   "\begin{thebibliography}{}" write$ newline$
1770 }
1771 FUNCTION {end.bib}

```

```
1772 { newline$
1773   "\end{thebibliography}" write$ newline$
1774 }
```

3.14 Actions

This is the main subroutine which calls all the others.

```
1775 READ
1776
1777 EXECUTE {init.state.consts}
1778
1779 ITERATE {presort}
1780 SORT
1781
1782 EXECUTE {initialize.label.vars}
1783
1784 ITERATE {forward.pass}
1785 REVERSE {reverse.pass}
1786
1787 EXECUTE {begin.bib}
1788 ITERATE {call.type$}
1789 EXECUTE {end.bib}
```

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