

Table of Authorities (toa.dtx)

Charles Duan

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Legal briefs and other documents often include a Table of Authorities, listing all of the references cited and the pages where those citations occur. One of the motivations for creating this package was the automatic generation of complete, correct, and properly formatted Tables of Authorities.

The table is generated using L^AT_EX's auxiliary file feature. Citations generate index lines that are written to a `\jobname.toa` file, and those lines are read, sorted, and formatted to produce the table. Indexing can be disabled with `\disabletoa` and enabled with `\enabletoa`.

A Table of Authorities is a complex structure, because it is typically sorted into sections based on reference types. This section describes how references are sorted into lists, how those lists get their headings, how page numbers in the tables are displayed, and finally how the table is formatted.

```
\newif\if@hi@in@toa
\newif\if@hi@toa@disabled
\let\disabletoa\@hi@toa@disabledtrue
\let\enabletoa\@hi@toa@disabledfalse
```

1 Indexing References

References are indexed for the Table of Authorities upon every citation. The command `\addtotoa` described in `iface.dtx` can also add an entry manually.

An interesting challenge for indexing is that, especially for briefs, references may be cited in parts of a document that use different pagination systems. As a result, it is necessary to store detailed information about where a reference is cited in a document in order to produce a correct listing of pages in the table.

Each entry in the TOA file has the following data elements as grouped tokens: (other than the leading `hi@toa`):

1. #1: the reference name, with “at” and a page number if `\tcp@{ref}` is defined
2. #2: the display-form page number
3. #3: the numeric page number
4. #4: the relevant definition of `\thepage` (to identify different page counting schemes)
5. #5: list of tags under which this TOA entry is to be categorized

Proposes adding a reference for indexing in the table of authorities. #1 is the reference, and #2 is the page number if any. Even if a reference is proposed for adding, the following conditions must be true:

- The TOA is not disabled
- The reference to be added to the TOA is not itself in the TOA
- A macro `\tc@{#1}` is defined, identifying the reference class for indexing.

```
\def\hi@addtooa#1#2{%
  \expandafter\hi@addtooa@\csname tc@#1\endcsname{#1}{#2}%
}
\def\hi@addtooa@#1#2#3{%
  \if@hi@in@toa\else \if@hi@toa@disabled\else
    \ifx#1\relax\else \ifx#1\empty\else
      \addtocontents{toa}{%
        \protect\contentsline{hi@toa}{%
          #2\ifundefined{tcp@#2}{\ifstrempy{#3}{ at #3}}%
        }{%
          {%
            \thepage
          }{%
            \noexpand\the\noexpand\c@page
          }{%
            % We want this to run at the time the |\write| is
            % executed.
            \noexpand\expandonce\thepage
          }{%
            #1%
            \ifx\hi@toa@locationtag\relax\else
              ,\hi@toa@locationtag
            \fi
          }%
        }{}%
      }%
    \fi\fi
  \fi\fi
}
```

`\hi@include@page@in@toa` Declares that the page number is relevant and should be included for a citation. This command should be issued by reference macro definers where the reference type ought to include a page number in the TOA.

```
\def\hi@include@page@in@toa#1{%
  \global\@namedef{tcp@#1}{%
}
```

2 Reading the Index

The goal is to generate two types of items:

- Lists, called `hi@toa@<tag>`, of reference names falling within that `<tag>`
- Macros of the form `\hi@pg@<ref>`, identifying the page numbers.

Sets up the Table of Authorities. This reads the `toa` file, performs all the reference use counting, and opens the `toa` file for writing. It then undefines itself so it cannot be called again. It should be run before displaying any TOA entries.

```
\def\hi@setuptoa{%
  \@hi@in@toatrue
  \global\let\@lasttoatitle\relax
  \hi@toa@counter\z@
  \@input{\jobname.toa}%
  \@hi@in@toafalse
  \if@filesw
    \newwrite\tf@toa
    \immediate\openout\tf@toa \jobname.toa\relax
  \fi
  \global\let\hi@setuptoa\relax
}
```

This is run for each entry in the `toa` file, as produced above. It sets up the following:

- Adds the indexed page numbers to a macro `\hi@pg@<ref-with-page>`
- Adds the reference to `\hi@toa@all`, used for processing page numbers
- Adds the reference to every list in #5

```

\def\l@hi@toa#1#2{\l@hi@toa@{#1}#2}
\def\l@hi@toa@#1#2#3#4#5{%
  \expandafter\hi@toa@addpg
  \csname hi@pg@\detokenize{#1}\endcsname
  {#2}{#3}{#4}%
  \for\hi@toa@tmp:=\empty#5\do{%
    \expand\findin{:}\hi@toa@tmp{i}\hi@toa@addtolist{#1}}{%
      \hi@toa@addtolist{#1}\hi@toa@tmp\hi@toa@tmp
    }%
  }%
}
\makeatfindin{:}

```

A counter for TOA items, just for informational purposes.

```

\newcount\hi@toa@counter

```

3 Lists

A Table of Authorities is made up of one or more reference lists, which are alphabetized. References can be added to multiple lists but can only be added to any list once. By default, reference types choose a list based on the type.

Adds a given reference to a named list of references. If the list does not already exist, then create it. Adding a reference to a list also involves maintaining a “sublist” that determines the heading for the list, as described below.

The message counters are updated and displayed here because we want to track unique additions of references to TOA lists.

#1 is the item to be added, #2 the list name, #3 the sublist name.

```

\def\hi@toa@addtolist#1#2#3{%
  \IfKnownList{hi@toa@#2}{\}%
  \NewSortedList{hi@toa@#2}\SortEasyAlpha{%
    \hi@toa@makesortable{#1}{\def#2}%
  }%
  \ListElementsMustBeUnique{hi@toa@#1}%
}%
\IfListContains{hi@toa@#2}{#1}{\}%
\AddToList{hi@toa@#2}{#1}%
\hi@toa@sublist@add{#2}{#3}%
\advance\hi@toa@counter@one
\message{(\the\hi@toa@counter)}%
}%

```

Given #1 a reference name and #2 a callback, turns the TOA citation form of #1 into sortable text and runs #2 on it.

```

\def\hi@toa@makesortable#1#2{%
  \findin{ at }{#1}{\hi@toa@makesortable@}{\hi@toa@makesortable@{#1}}{#2}%
}

```

#1 is the reference name, #2 the page number, #3 the callback.

```

\def\hi@toa@makesortable@#1#2#3{%
  \expand\hi@toa@makesortable@{%
    \csname\@ifundefined{lc@#1}{fc@#1}{lc@#1}\endcsname
  }{i}{#2}{#3}%
}

```

#1 is the defined text of the reference macro, #2 the page number, #3 the callback.

```

\def\hi@toa@makesortable@@#1#2#3{%
  \uppercase{\StripForAlpha{#1#2}}{#3}%
}
\makeatfindin{ at }

```

3(a) Sublists Each item is associated with a Table of Authorities list and optionally a sublist. The sublist is used to construct a heading for the relevant list, such that if items in one table list are associated with several sublists, then the heading will name all the sublists. This is useful, for example, if a Table of Authorities section ought to contain both statutes and regulations: The table can automatically compute whether the heading of that section should read “Statutes,” “Statutes and Regulations,” “Statute and Regulations,” or the like, depending on how many statutes and regulations are in the section.

Adds a sublist name #2 to a TOA list #1. The sublist information is stored in a macro `\hi@sublist@{list}`. That macro contains a list of paired items, one for each sublist name encountered:

- A macro `\hi@toa@sublist@singular` or `\hi@toa@sublist@plural`
- The sublist name

```
\def\hi@toa@sublist@add#1#2{%
  \expandafter\hi@toa@sublist@add@\csname hi@sublist@#1\endcsname{#2}%
}
```

`\reserved@a` will be the sublist name to be searched for, `\reserved@b` the sublist name being tested as the list is iterated through.

```
\def\hi@toa@sublist@add#1#2{%
  \ifx#1\relax
    \def#1{\hi@toa@sublist@singular{#2}}%
  \else
    \def\reserved@a{#2}
    \expandafter\hi@toa@sublist@update#1\@stop{}#1%
  \fi
}
```

#1 and #2 are items in the sublist, #3 is the remaining list, #4 the part of the list already searched, #5 the sublist macro.

```
\def\hi@toa@sublist@update#1#2#3\@stop#4#5{%
  \def\reserved@b{#2}%
  \@test \ifx\reserved@a\reserved@b\fi {%
    \def#5{#4\hi@toa@sublist@plural{#2}#3}%
  }{%
    \ifblank{#3}{%
      \edef#5{%
        \unexpanded{#4#1{#2}\hi@toa@sublist@singular}%
        {\expandonce\reserved@a}%
      }%
    }{%
      \hi@toa@sublist@update#3\@stop{#4#1{#2}}{#5}%
    }%
  }%
}
```

Sublist names must be given in both singular and plural forms, the right one of which will be selected. The names should be delimited with two to three slashes, such that the first part is the common prefix, the last part is the plural suffix, and the middle part if any is the singular suffix. For example, “Regulation/s” and “Treat/y/ies.”

```
\def\hi@toa@sublist@singular#1{%
  \find@in{/#1}{\hi@toa@sublist@choose\@firstoftwo}{#1}%
  \hi@toa@sublist@lookahead
}
\def\hi@toa@sublist@plural#1{%
  \find@in{/#1}{\hi@toa@sublist@choose\@secondoftwo}{#1}%
  \hi@toa@sublist@lookahead
}
\make@find@in{/#}
\def\hi@toa@sublist@lookahead#1{%
  \ifx#1\@empty\else
    \expandafter\hi@toa@sublist@lookahead@\expandafter#1%
  \fi
}
```

```

}
\def\hi@toa@sublist@lookahead@#1#2#3{%
  \@test\ifx#3\empty\fi{%
    \space and\space #1{#2}#3%
  }{%
    ,\space#1{#2}#3%
  }%
}
\def\hi@toa@sublist@choose#1#2#3{%
  #2\find@in{/}{#3}{#1}{#1}{#3}}%
}

```

Shows a sublist, for example in a heading.

```

\DeclareRobustCommand\hi@toa@sublist@show[1]{%
  \csname hi@sublist@#1\endcsname\empty
}

```

3(b) Location-Based Lists It may be desirable to prepare a chapter-by-chapter bibliography, such that references are tagged not by type but by location in the document. The macro `\AuthorityTag{<tag>}` will tag all subsequent references cited with the given *<tag>*, which can then be used as a list of the Table of Authorities.

The current location tag is stored in `\hi@toa@locationtag`.

```

\def\AuthorityTag#1{%
  \def\hi@toa@locationtag{#1}%
}
\let\hi@toa@locationtag\relax

```

4 Composing Page Number Lists

If a reference is cited on pages 3, 4, 5, 7, 8, and 10, it is desirable to group these numbers into compact range forms for presentation in the Table of Authorities: “3–5, 7–8, 10.” The package does so by reading the page numbers in order, keeping a running compilation of the properly formatted aggregate number listing and revising the last element of that listing as necessary.

The `\hi@pg@<ref>` macros take on the following form:

```
{<last-display-page>} {<last-numeric-page>} {<last-the page>} {<built-page-list>}
```

where appending *<last-display-page>* to *<built-page-list>* will give the complete page list so far. Also, *<built-page-list>* is prepended with a list of **s* to indicate the number of citations to a particular reference, for counting purposes.

#1 is the `\hi@pg@<ref>` macro. #2-#4 are the elements from the toa file listing: the display-form page number, the numeric page number, and the definition of `\the page`.

```

\def\hi@toa@addpg#1#2#3#4{%
  \@test\ifx#1\relax\fi{%
    \def#1{#3}{#4}{*:#2}}%
  }{%
    \expandafter\hi@toa@addpg@#1#1{#2}{#3}{#4}%
  }%
}

```

Updates the running list of pages, when given a new page number.

#1-#4 are the four `\hi@pg@<ref>` parameters, which are described above, #5 is `\hi@pg@<ref>`, #6-#8 are #2-#4 of `\l@hi@toa`.

```

\def\hi@toa@addpg@#1#2#3#4#5#6#7#8{%
  \def\reserved@a{#3}\def\reserved@b{#8}%
  \ifx\reserved@a\reserved@b

```

For the same `\thepage`: Compare the last-added page number to the page number to be added. If they are the same, then just increment the count. If the new page number is one greater, then see if we're already working with a range (#1, *last-display-page*) is not blank). If so, then just increment the count. Otherwise, increment the count and add a dash. In any event, set *last-display-page* to the new display page number.

```
\@tempcnta=#2\relax
\ifnum#7=\@tempcnta
\def#5{{#1}{#2}{#3}{*#4}}%
\else
\advance\@tempcnta@one
\ifnum#7=\@tempcnta
\ifblank{#1}{%
\def#5{{#6}{#7}{#8}{*#4--}}%
}%
\def#5{{#6}{#7}{#8}{*#4}}%
}%
\else
```

If the numeric increase is greater than one, then compose the full aggregate list (#4#1), and tack on a comma and the new display number.

```
\def#5{{#7}{#8}{*#4#1, #6}}%
\fi
\else
```

If `\thepage` has changed, then compose the full list and tack on a comma and the new number.

```
\def#5{{#7}{#8}{*#4#1, #6}}%
\fi
}
```

4(a) Using Page Number Lists Composes the page number list and runs the callback on it. #1 is the reference name, #2 is a callback.

```
\def\hi@toa@usepg#1#2{%
\@expand{\@unbrace\hi@toa@usepg@}{%
\csname hi@pg@\detokenize{#1}\endcsname
}{ii}{#2}%
}
% #1-#4 are the elements of the |\hi@pg@|\meta{ref} structure, \#5 is the
% callback.
\def\hi@toa@usepg@#1#2#3#4#5{%
\find@in{:}{#4#1}{%
\@tworun\@gobble\hi@toa@usepg@passim
}{\ThisShouldNeverBeReached}{#5}%
}
\make@find@in{:}
% #1 is the page list, #2 is the callback.
\def\hi@toa@usepg@passim#1#2{%
\@test \ifnum\c@passimnum>\z@ \fi{%
\hi@toa@usepg@passim@{1}#1, \@stop{#1}{#2}%
}{#2{#1}}%
}
\def\hi@toa@usepg@passim@#1#2, #3\@stop#4#5{%
\@test \ifnum#1<\c@passimnum \fi{%
\ifstrempy{#3}{#5{#4}}{%
\@expandarg\hi@toa@usepg@passim@{
\number\numexpr#1+1\relax
}#3\@stop{#4}{#5}%
}%
}{#5{\PassimText}}%
}
```

Counts the number of times a reference was used, based on the `\hi@pg@{ref}` data. #1 is *ref*, #2 a callback. It is entirely expandable.

```
\def\hi@toa@refcount#1#2{%
\@expand{\@unbrace\hi@toa@refcount@}{\csname hi@pg@#1\endcsname}{ii}{#2}%
}
\def\hi@toa@refcount@#1#2#3#4#5{%
\find@in{:}{#4}{\hi@toa@refcount@@}{\ThisShouldNeverBeReached}{#5}%
}
\def\hi@toa@refcount@@#1#2#3{\hi@toa@refcount@@@{1}#1\@stop{#3}}%
\def\hi@toa@refcount@@@#1#2#3\@stop#4{%
\ifstrempy{#3}{#4{#1}}{%
\@expandarg\hi@toa@refcount@@@{\number\numexpr#1+1\relax}#3\@stop{#4}%
}%
}
```

4(b) Starred References Some courts ask litigants to insert asterisks in the Table of Authorities before references that they rely most heavily on. This can be done automatically by counting the number of times each reference has been used.

`\StarCount` The macro `\StarCount{<num>}` sets the minimum number of uses of a reference before that reference receives a star. The package option `toastar` sets the value to 4. By default it is zero, in which case no stars are displayed.

`\StarText` The macro `\StarText` can be defined as text to place at the beginning of the Table of Authorities explaining the stars.

`\StarMark` The macro `\StarMark` is the actual text of the star; it will be added before the relevant TOA entries via `\everypar`.

Adds a star before the reference if its usage count exceeds the minimum count. #1 is the reference name. The star is added by an `\everypar` because TOA entries are initially in vertical mode.

```
\newcount\hi@toa@starcount
\def\hi@toa@star#1{%
  \ifnum\hi@toa@starcount>\z@
    \ifnum\hi@toa@refcount{#1}>\iden<\hi@toa@starcount\else
      \everypar{\StarMark\everypar{}}%
    \fi
  }
\def\StarCount#1{\hi@toa@starcount=#1\relax}
\def\StarText{%
  Authorities upon which this brief primarily relies are indicated with
  asterisks in the margin.\par
}
\def\StarMark{\llap{* } }
```

5 Showing the Table

`\tableofauthorities` The Table of Authorities is produced by calling `\tableofauthorities`. This will create one section for each reference category as described in `refs.dtx`.

`\toaheading` Each heading will be created using whatever `\toaheading` is defined as.

```
\def\tableofauthorities{%
  \ifnum\hi@toa@starcount>\z@
    \StarText
  \fi
  \begingroup
    \def\do##1{%
      \AuthorityTable[%
        \toaheading{\hi@toa@sublist@show{##1}}\par
        \ifdim\lastskip<\toaskip
          \vskip-\lastskip
        \else
          \vskip-\toaskip
        \fi
        \parindent\z@
        \parskip=\toaskip
      ]{##1}%
    }%
    \hi@type@doforall
  \endgroup
}
\def\toaheading{\section* }
```

`\AuthorityTable` Alternately, the macro `\AuthorityTable[<heading-text>]{<list-name>}` will produce a single Table of Authorities list. This can be used for more fine-grained control over what tables are displayed.

#1 is optional text to be displayed before the table if the table has any content. #2 is the table name.

```

\newcommand\AuthorityTable[2][{}]{%
  \hi@setuptoa
  \@hi@in@toatrue
  \noid
  \IfKnownList{hi@toa@#2}{\IfEmptyList{hi@toa@#2}{}%
    #1%
    \ShowList{hi@toa@#2}{%
      \global\let\@this@toatitle\relax
      \hi@toa@usepg{##1}{\@toaline{\hi@toa@star{##1}\toacite{##1}}}%
      \global\let\@last@toatitle\@this@toatitle
    }%
  }%
  \@hi@in@toafalse
}

```

Displays one reference's line in the Table of Authorities. #1 is the text of the reference citation, #2 the page number aggregate.

```

\def\@toaline#1#2{%
  {\hi@toa@par@settings
  #1\nobreak
  \TOALeader
  \nobreak
  {\normalfont \normalcolor \hi@toa@brkpg{#2}}%
  \par}%
}

```

Sets up the paragraph margin settings for TOA entries.

```

\def\hi@toa@par@settings{%
  \leftskip\z@\rightskip \@tocrmarg
  % Make the right margin ragged. This is necessary because the ditto spacing
  % gets messed up on occasion due to space stretching.
  \rightskip=1\rightskip plus .1\hsize
  \parfillskip -\rightskip
  \hangindent\toahangindentlen\relax
  \parindent \z@\@afterindenttrue
  \interlinepenalty\@M
}

```

\TOALeader Inserts the dots for TOA entries.

```

\def\TOALeader{%
  \leaders\hbox{%
    $\m@th \mkern \dotsep mu\hbox{.}\mkern \dotsep mu$%
  }\hskip 2em \@plus 1fill \@minus 0.5em
}

```

Displays a single entry in the Table of Authorities. This is essentially another citation command like \sentence except it invokes less overhead because there is no punctuation at the end of the entry to check.

```

\def\toacite#1{%
  \begingroup
  \let\clause\hi@clause
  \let\sentence\hi@sentence
  \hi@pse@parse{#1}{\hi@draw@citation{\@hi@captrue\@hi@sentrue}{}}%
  \endgroup
}

```

On occasion, the best presentation of the TOA entry involves breaking the page number listing across a line. This macro computes the best place for doing so.

The basic idea is that, for each page number item, three glue entries are inserted: $-\text{\rightskip}$, G_a and G_b . G_b has natural dimension \hspace but is shrinkable to zero, and $G_a = -G_b + \text{\rightskip}$. G_a is inserted with a penalty that favors breaking after the last possible comma, but G_b cannot be broken beforehand.

If no break occurs between two page numbers, then the total glue is $-\text{\rightskip} + G_a + G_b = 0$. If a break is permitted, though, then G_a is discarded. As a result, the preceding page number gets glue $-\text{\rightskip}$, pulling it all the way to the right margin, and the next page number starts a new line and gets glue G_b , pushing it as far to the right margin as possible and (because of the shrinkage) causing the line-breaking algorithm to favor putting as few items on this new line as possible.

Below, \@tempskipa is G_a , \@tempskipb is G_b , and \@tempcnta is a descending penalty placed before G_a .

```

\def\hi@toa@brkpg#1{%
  \@tempcnta=9999\relax

```



```

\@tempskipb=\hsize\@minus\hsize\relax
\@tempskipa=\glueexpr \@tempskipb * -1 + 1\rightskip\relax
\find@in{, }{#1}\hi@toa@brkpg@{\hbox{#1}}%
}
\make@find@in{, }
\def\hi@toa@brkpg@#1#2{%
\hbox{#1,}%
% Pull the page number to the right margin
\nobreak\hskip-\rightskip
% Now permit a line break. If the break is not accepted, nix the
% right-margin glue above, insert a -1fil glue to counteract the |\hfil| to
% come, and insert a space to separate the commas.
\penalty\@tempcnta\hskip \@tempskipa\relax
% Insert an |\hbox| and then an |\hfil|. If the line is broken, then the
% |\hfil| will show up, pushing this page number to the right side of the
% page. If the line is not broken here, then the -1fil glue from above will
% counteract this glue, and nothing will result.
\hbox{ }\nobreak\hskip\@tempskipb\relax
% Reduce the penalty, to encourage later line breaks rather than earlier
% ones
\advance\@tempcnta\m@ne
\find@in{, }{#2}\hi@toa@brkpg@{\hbox{#2}}%
}

```

Citation macros should use this when displaying an author name as the first item in a reference. It stores the author name in `\@this@toatitle`, for identifying duplicates. It then displays the author name, replacing it with `\toaditto` if it is a duplicate. #1 is the font for the author; #2 is the author name (sortable).

```

\DeclareRobustCommand\hi@toa@dupauthor[2]{%
\if@hi@in@toa
\global\def\@this@toatitle{#2}%
\hi@nocap
\ifx\@this@toatitle\@last@toatitle
\toaditto, % space
\else
#1{#2}, % space
\fi
\else
#1{#2}, % space
\fi
}

```

If there is no author, then just reset the author tracking state.

```

\DeclareRobustCommand\hi@toa@dupnone{\global\let\@this@toatitle\relax}%

```

For statutes, an even more complex format for Table of Authorities listings is desirable involving ditto marks: the ditto-omitted title should be indented so that it lines up with the non-omitted title.

#1 is a statute title; #2 is a statute citation; #3 is the page number text if no ditto is used; #4 is the text if a ditto is used.

The form of the resulting TOA entry is:

- If no ditto: #1#2#3
- If #1 is empty: [ditto]#4
- If #1 is present: [extra indent][ditto]#4

```

\def\hi@toa@duptitle#1#2#3#4{%
\global\def\@this@toatitle{#1#2}%
\ifx\@this@toatitle\@last@toatitle
\ifhmode \immediate\write16{BAD!!!}\fi
\penalty\z@
\@tempdima=\pagegoal \advance\@tempdima-\pagetotal
\advance\@tempdima-\pageshrink
\ifdim\@tempdima<\baselineskip
\ifvmode \break \fi
\hi@citeguts{#1#2#3}%
\else
\setbox\@tempboxa=\hbox{#2}%
\@tempdima=\wd\@tempboxa
\ifstrempy{#1}{{\advance\@tempdima\toahangindentlen\relax}%
\ifdim 6em<\@tempdima \@tempdima=6em\relax\fi
\setbox\@tempboxa=\hbox{\toaditto}%
\ifdim\@tempdima<\wd\@tempboxa \@tempdima=\wd\@tempboxa \fi
\hi@citeguts{
\leavevmode\hb@xt@{\@tempdima}{\hss \box\@tempboxa}%
\hi@nocap
#4%
}%
}

```

```

\fi
\else
\hi@citeguts{#1#2#3}%
\fi
}

```

The following affect the appearance of the Table of Authorities:

<code>\toaskip</code>	• <code>\toaskip</code> is a glue specification for how much space to put between entries.
<code>passimnum</code>	• <code>passimnum</code> is a counter for how many items an aggregate page listing must have before it is replaced with <i>passim</i> .
<code>\PassimText</code>	• <code>\PassimText</code> is the text to be used if <code>passimnum</code> is met or exceeded.
<code>\toaditto</code>	• <code>\toaditto</code> is the text that replaces repeated authors, statutory titles, and other information that can be omitted from the table listings.
<code>\toahangindentlen</code>	• <code>\toahangindentlen</code> is defined as a length for the hanging indent. (It is specified in em units so it is defined as macro text.)

```

\newskip\toaskip
\toaskip=1\baselineskip \@plus .1\baselineskip \@minus .1\baselineskip
\newcounter{passimnum} \c@passimnum=\z@
\def\PassimText{\emph{passim}}
\def\toaditto{---\kern-.1em---\kern-.1em---}
\def\toahangindentlen{1.5em}

```