

# Indexes

## FOR WINDOWS

### Instructions for Producing Indexes

Install freeware ActivePerl (<http://www.activestate.com/Products/activeperl>) or other Perl implementation (needed to run authorindex script).

Create file natbib.cfg (placed in same directory as document) with the following syntax—makes authorindex compatible with natbib:

```
\AtBeginDocument{%
\@ifpackageloaded{authorindex}{%
  \ifNAT@numbers
    \let\org@@citex\NAT@citexnum
  \else
    \let\org@@citex\NAT@citex
  \fi
\def\@citex[#1][#2]#3{%
  \typeout{indexing: [#1][#2]{#3}}%
  \org@@citex[#1][#2]{#3}%
  \@aitey{#3}}%
\renewcommand\NAT@wrout[5]{%
  \if@filesw{%
    \let\protect\noexpand\let~\relax
    \immediate\write\@auxout{\string\abibcite{#5}{#1}}%
  \immediate\write\@auxout{\string\bibcite{#5}{#1}{#2}{#3}{#4}}}%
  \fi}}
\endinput
```

Put in preamble:

```
\usepackage[avoideditors]{authorindex}
\usepackage{index}
\newindex{author}{adx}{and}{Author Index}
\newindex{default}{idx}{ind}{Subject Index}
\newcommand*{seealso}[2]{\emph{\seename\ also} #1}
\def\suppresscomma#1,{\hbox{} \ignorespaces}
```

(Note that .adx file will not actually used: instead will use authorindex to generate the input file for the author index. More below on the last two lines of syntax.)

Put at end of document:

```
\printindex[author]
\printindex
```

Produce author index:

- LaTeX
- BibTeX
- LaTeX
- LaTeX (must rerun until page references correct)
- Command line: `authorindex -i fileroot`
- Command line: `makeindex -o fileroot.and fileroot.ain`

Produce subject index:

- LaTeX (may need to run more than once to get correct page numbers if have not just produced author index)
- Command line: `makeindex fileroot`

Notes:

1. `fileroot` is root of base .tex file, e.g., `Gehlbach_final_index`. Must have no spaces.
2. The following syntax in the preamble allows use of `seealso` (not supported with the `indexpackage`):

```
\newcommand*\seealso[2]{\emph{\seename\ also} #1}
\def\suppresscomma#1,{\hbox{}}\ignorespaces}
```

I then enter `seealso` references as follows to ensure that `seealso` entries are properly placed at the end of any entry in the index:

```
\index{Baltic states!ZZ@\suppresscomma|seealso{Estonia, Latvia, Lithuania}}
```

A bit ugly, but it works.

## MODIFICATIONS FOR MAC

Perl native to Mac OS

Create file `natbib.cfg` as before

Put in preamble:

```
\usepackage[avoideditors]{authorindex}
\usepackage{multind}\ProvidesPackage{multind}
\makeindex{authors}
\makeindex{subject}
% Additional lines for see also?
```

Put at end of document:

```
\printindex{authors}{Author index}
\printindex{subject}{Subject index}
```

Copy Perl script `authorindex` from `/usr/local/texlive/2010/texmf-dist/scripts/` to directory with `.tex` files. Then at line 294, modify this:

```
print STDERR `bibtex $tmp`;
```

to this (changing year as necessary according to installation):

```
print STDERR `/usr/local/texlive/2012/bin/universal-darwin/bibtex $tmp`;
```

Open Terminal and `cd` to directory with `.tex` files.

Create author index:

- LaTeX
- BibTeX
- LaTeX
- LaTeX (must rerun until page references correct)
- Terminal: `authorindex -i fileroot`
- Rename `fileroot.ain` `authors.idx` (replace old file)
- Terminal: `makeindex authors`

Create subject index:

- LaTeX (may need to run more than once to get correct page numbers if have not just produced author index)
- Terminal: `/usr/texbin/makeindex subject`