

# BIBTOOL Quick Reference Card

for BIBTOOL version 2.66 --- see also <http://www.gerd.neugebauer.de/software/TeX/BibTool/>  
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## Command line options

-- **rsc\_command**  
Perform resource command as if given in a file.

-A **type**  
Determine key disambiguation. *type* in 0, a, A,

-d  
Check double entries.

-f **key\_format**  
Generate keys according to *key\_format*

-F  
Enable key generation with free key format.

-h  
Print short help and exit.

-i **input\_file**  
Mark a file to be processed later.

-k  
Make keys with the short format.

-K  
Make keys with the long format.

-o **output\_file**  
Send the output to *output\_file*.

-q  
Suppress warning messages.

-r **resource\_file**  
Read the resource file *resource\_file*.

-R  
Load the default resource file now.

-s  
Sort the result.

-S  
Sort the result in reverse order.

-v  
Turn on verbose messages about the actions performed.

-x **aux\_file**  
Extract those entries mentioned in *aux\_file*.

-X **regex**  
Extract entries matching *regex*.

## General

resource.search.path = {*dir*<sub>1</sub>:*dir*<sub>2</sub>...}  
resource {*file*}  
bibtex.search.path = {*dir*<sub>1</sub>:*dir*<sub>2</sub>...}  
bibtex.env.name = {*ENV\_NAME*}  
env.separator = {*c*}  
dir.file.separator = {*c*}  
print {*message*}  
quiet = *OnOff*  
verbose = *OnOff*

## Reading and Printing

input {*bib\_file*}  
output.file = {*file*}  
pass.comments = *OnOff*  
new.entry.type {*type*}  
print.align = *n*  
print.align.key = *n*  
print.align.preamble = *n*  
print.align.comment = *n*  
print.braces = *OnOff*  
print.comma.at.end = *OnOff*  
print.deleted.entries = *OnOff*  
print.deleted.prefix = {*prefix*}  
print.indent = *n*  
print.line.length = *n*  
print.newline = *n*  
print.parentheses = *OnOff*  
print.terminal.comma = *OnOff*  
print.use.tab = *OnOff*  
print.wide.equal = *OnOff*  
suppress.initial.newline = *OnOff*  
new.field.type {*new=old*}  
symbol.type = *type*  
upper, lower, cased

## Sorting

sort = *OnOff*  
sort.cased = *OnOff*  
sort.reverse = *OnOff*  
sort.format = {*format*}  
sort.order {...}  
sort.macros = *OnOff*

## Searching (Extraction)

tex.define {*macro*[*arg*]=*text*}  
extract.file {*file*}  
select {*field*<sub>1</sub>...*field*<sub>*n*</sub> "*regex*"}  
select {*type*<sub>1</sub>...*type*<sub>*n*</sub>}  
select.by.string {*field*<sub>1</sub>...*field*<sub>*n*</sub> "*regex*"}  
select.by.string.ignore {*chars*}  
select.case.sensitive = *OnOff*  
select.fields = {*field*<sub>1</sub>,*field*<sub>2</sub>,...}

## Field Manipulation

add.field {*field*="*value*"}  
delete.field {*field*}  
keep.field {*field*}  
keep.field {*field* if *field*<sub>2</sub>="*pattern*"}  
rename.field {*old=new*}  
rename.field {*old=new* if *field*="*pattern*"}  
rewrite.rule {*pattern*}  
delete all matching fields  
rewrite.rule {*pattern* # *replacement*}  
rewrite all fields  
rewrite.rule {*f*<sub>1</sub>...*f*<sub>*n*</sub> # *pattern* # *replacement*}  
rewrite some fields  
rewrite.case.sensitive = *OnOff*  
rewrite.limit = {*n*}

## Checks

check.double = *OnOff*  
check.do.delete = *OnOff*  
check.rule {*field* # *pattern* # *message*}  
check.case.sensitive = *OnOff*

## Strings

macro.file {*file*}  
print.all.strings = *OnOff*  
expand.macros = *OnOff*

## Inheritance

crossref.map = *OnOff*  
clear.crossref.map {*n*}  
crossref.limit = {*n*}  
expand.crossref = *OnOff*  
expand.xdata = *OnOff*

## BibTeX1.0

apply.alias = *OnOff*  
apply.include = *OnOff*  
apply.modify = *OnOff*  
key.make.alias = *OnOff*

## Counting

count.all = *OnOff*  
count.used = *OnOff*

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## Key Generation

**preserve.keys** = *OnOff*  
**preserve.key.case** = *OnOff*  
**key.format** = {*format*}  
    special values: short, long, short.need,  
    long.need, empty  
**key.generation** = *OnOff*  
**default.key** = {*key*}  
**key.base** = *base*  
    values: upper, lower, digit  
**key.number.separator** = {*s*}  
**key.expand.macros** = *OnOff*  
**fmt.name.title** = {*s*}  
**fmt.title.title** = {*s*}  
**fmt.name.name** = {*s*}  
**fmt.inter.name** = {*s*}  
**fmt.name.pre** = {*s*}  
**fmt.et.al** = {*s*}  
**fmt.word.separator** = {*s*}  
**new.format.type** = {*n*="spec"}

## Name Formatting Specification

Use *n* letters. Use *m* name parts. Insert *pre* before, *mid* between, and *post* after the words. Translate according to the *s* parameter ('+', '-', '\*').

**%sn.mf[*mid*][*pre*][*post*]**  
    format first names.

**%sn.mv[*mid*][*pre*][*post*]**  
    format ``von'' part.

**%sn.ml[*mid*][*pre*][*post*]**  
    format last name.

**%sn.mj[*mid*][*pre*][*post*]**  
    format ``junior'' part.

## Format Specifications

Pseudo fields:

**\$key**  
**\$default.key**  
**\$sortkey**  
**\$source**  
**\$type**  
**@type**  
**\$day**  
**\$month**  
**\$mon**  
**\$year**  
**\$hour**  
**\$minute**  
**\$second**  
**\$user**  
**\$hostname**

Formatting Fields:

**%±x.y n(*field*)**  
    format *y* characters of *x* last names.

**%±x.y N(*field*)**  
    format *y* characters of *x* names.

**%±x.y p(*field*)**  
    format *x* names according to the name format *y*.

**%±x.y d(*field*)**  
    format at most *x* digits of the *y*<sup>th</sup> number.

**%±x.y D(*field*)**  
    format *x* digits of the *y*<sup>th</sup> number without truncation.

**%±x s(*field*)**  
    format *x* string characters.

**%±x.y t(*field*)**  
    format *x* sentence words of length *y*.

**%±x.y T(*field*)**  
    format *x* sentence words of length *y*.  
    (Words ignored)

**%±x.y w(*field*)**  
    format *x* words of length *y*.

**%±x W(*field*)**  
    format *x* words of length *y*. (Words ignored)

**%±x.y #n(*field*)**  
    test whether the number of names is between *x* and *y*.

**%±x.y #N(*field*)**  
    test whether the number of names is between *x* and *y*.

**%±x.y #p(*field*)**  
    test whether the number of names is between *x* and *y*.

**%±x.y #s(*field*)**  
    test whether the number of characters is between *x* and *y*.

**%±x.y #t(*field*)**  
    test whether the number of words is between *x* and *y*.

**%±x.y #T(*field*)**  
    test whether the number of not ignored words is between *x* and *y*.

**%±x.y #w(*field*)**  
    test whether the number of words is between *x* and *y*.

**%±x.y #W(*field*)**  
    test whether the number of not ignored words is between *x* and *y*.

## Libraries

|                      |   |
|----------------------|---|
| <b>check.y</b>       | Check the value of the year.                      |
| <b>default</b>       | All default settings.                             |
| <b>field</b>         | Redefine field names.                             |
| <b>brace</b>         | Use braces as delimiters.                         |
| <b>improve</b>       | Apply improvements.                               |
| <b>iso2tex</b>       | Translate ISO 8859/1 characters.                  |
| <b>iso_def</b>       | Define ISO 8859/1 characters for formatting.      |
| <b>keep.bibtex</b>   | Keep only the fields of standard BibTeX styles.   |
| <b>keep.biblatex</b> | Keep only the fields of standard bibLaTeX styles. |
| <b>month</b>         | Introduce strings for month names.                |
| <b>opt</b>           | Remove OPT in field names.                        |
| <b>sort fld</b>      | Specify sort order for fields.                    |
| <b>tex_def</b>       | Define TeX macros for formatting.                 |
| <b>biblatex</b>      | Define entry types and fields known to bibLaTeX.  |