

# BibTool Quick Reference Card

for BibTool version 2.68 — see also <http://www.gerd.neugebauer.de/software/TeX/BibTool/>  
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Command line options	General	Sorting	Checks
<ul style="list-style-type: none"><li>- rsc_command Perform resource command as if given in a file.</li><li>-A type Determine key disambiguation. type in 0, a, A,</li><li>-d Check double entries.</li><li>-f key_format Generate keys according to key_format</li><li>-F Enable key generation with free key format.</li><li>-h Print short help and exit.</li><li>-i input_file Mark a file to be processed later.</li><li>-k Make keys with the short format.</li><li>-K Make keys with the long format.</li><li>-o output_file Send the output to output_file.</li><li>-q Suppress warning messages.</li><li>-r resource_file Read the resource file resource_file.</li><li>-R Load the default resource file now.</li><li>-s Sort the result.</li><li>-S Sort the result in reverse order.</li><li>-v Turn on verbose messages about the actions performed.</li><li>-x aux_file Extract those entries mentioned in aux_file.</li><li>-X regex Extract entries matching regex.</li></ul>	<ul style="list-style-type: none"><li>resource.search.path = {dir<sub>1</sub>:dir<sub>2</sub>...}</li><li>resource {file}</li><li>bibtex.search.path = {dir<sub>1</sub>:dir<sub>2</sub>...}</li><li>bibtex.env.name = {ENV_NAME}</li><li>env.separator = {c}</li><li>dir.file.separator = {c}</li><li>print {message}</li><li>quiet = OnOff</li><li>verbose = OnOff</li></ul>	<ul style="list-style-type: none"><li>sort = OnOff</li><li>sort.cased = OnOff</li><li>sort.reverse = OnOff</li><li>sort.format = {format}</li><li>sort.order {...}</li><li>sort.macros = OnOff</li></ul>	<ul style="list-style-type: none"><li>check.double = OnOff</li><li>check.do.delete = OnOff</li><li>check.rule {field # pattern # message}</li><li>check.warning.rule {field # pattern # message}</li><li>check.error.rule {field # pattern # message}</li><li>check.case.sensitive = OnOff</li><li>unique.field {field}</li></ul>
	Reading and Printing	Searching (Extraction)	Strings
	<ul style="list-style-type: none"><li>input {bib_file}</li><li>output.file = {file}</li><li>parse.exit.on.error = OnOff</li><li>pass.comments = OnOff</li><li>new.entry.type {type}</li><li>print.align = n</li><li>print.align.key = n</li><li>print.align.preamble = n</li><li>print.align.comment = n</li><li>print.braces = OnOff</li><li>print.comma.at.end = OnOff</li><li>print.deleted.entries = OnOff</li><li>print.deleted.prefix = {prefix}</li><li>print.indent = n</li><li>print.line.length = n</li><li>print.newline = n</li><li>print.parentheses = OnOff</li><li>print.terminal.comma = OnOff</li><li>print.use.tab = OnOff</li><li>print.wide.equal = OnOff</li><li>suppress.initial.newline = OnOff</li><li>new.field.type {new=old}</li><li>symbol.type = type</li><li>upper, lower, cased</li></ul>	<ul style="list-style-type: none"><li>tex.define {macro[arg]=text}</li><li>extract.file {file}</li><li>select {field<sub>1</sub>...field<sub>n</sub> "regex"}</li><li>select {type<sub>1</sub>...type<sub>n</sub>}</li><li>select.by.string {field<sub>1</sub>...field<sub>n</sub> "regex"}</li><li>select.by.string.ignore {chars}</li><li>select.case.sensitive = OnOff</li><li>select.fields = {field<sub>1</sub>,field<sub>2</sub>,...}</li></ul>	<ul style="list-style-type: none"><li>macro.file {file}</li><li>print.all.strings = OnOff</li><li>expand.macros = OnOff</li></ul>
		Field Manipulation	Inheritance
		<ul style="list-style-type: none"><li>add.field {field="value"}</li><li>delete.field {field}</li><li>keep.field {field}</li><li>keep.field {field if field<sub>2</sub>="pattern"}</li><li>rename.field {old=new}</li><li>rename.field {old=new if field="pattern"}</li><li>rewrite.rule { pattern }</li><li>delete all matching fields</li><li>rewrite.rule { pattern # replacement }</li><li>rewrite.all.fields</li><li>rewrite.rule {f<sub>1</sub>...f<sub>n</sub> # pattern # replacement }</li><li>rewrite some fields</li><li>rewrite.case.sensitive = OnOff</li><li>rewrite.limit = {n}</li></ul>	<ul style="list-style-type: none"><li>crossref.map = OnOff</li><li>clear.crossref.map {}</li><li>crossref.limit = {n}</li><li>expand.crossref = OnOff</li><li>expand.xdata = OnOff</li></ul>
			BibT <sub>E</sub> X1.0
			<ul style="list-style-type: none"><li>apply.alias = OnOff</li><li>apply.include = OnOff</li><li>apply.modify = OnOff</li><li>key.make.alias = OnOff</li></ul>
			Counting
			<ul style="list-style-type: none"><li>count.all = OnOff</li><li>count.used = OnOff</li></ul>

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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.
%snmv[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  $y^{th}$  number.
%±x.y D(field)
    format x digits of the  $y^{th}$  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

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

## Environment Variables

BIBTOOL	Search path for rsc files
BIBINPUTS	Search path for bib files
HOME	Home directory for .bibtoolrsc