

# Package ‘bib2df’

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**Type** Package

**Title** Parse a BibTeX File to a Tibble

**Version** 0.1.1

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**Description** Parse a BibTeX file to a tidy tibble (trimmed down version of data.frame) to make it accessible for further analysis and visualization.

**License** GPL-3

**LazyData** TRUE

**Imports** dplyr, plyr, stringr

**RoxygenNote** 5.0.1

**NeedsCompilation** no

**Repository** CRAN

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bib2df	<i>Parse a BibTeX file to a tibble.</i>
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**Description**

The BibTeX file is read, parsed, tidied and written to a tibble.

**Usage**

```
bib2df(file)
```

**Arguments**

file                    character, path to a .bib file.

**Details**

Uses the internal `bib2df_read()`, `bib2df_gather()` and `bib2df_tidy()`. No magic, just a wrapper.

**Value**

A tibble.

**Author(s)**

Philipp Ottolinger

**Examples**

```
path <- system.file("extdata", "biblio.bib", package = "bib2df")
bib2df(path)
```

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bib2df_gather	<i>Parse a .bib file.</i>
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**Description**

`bib2df_gather` parses a .bib file and returns each BibTeX-item as a row in a tibble.

**Usage**

```
bib2df_gather(bib)
```

**Arguments**

bib,                    a character vector resulting from `bib2df_read()`.

**Details**

bib2df\_gather extracts the BibTeX entry types, fields and the respective values. Each item is presented as a row in a data\_frame whereas the entry type (column CATEGORY) is added to each row.

**Value**

A tibble.

**Author(s)**

Philipp Ottolinger

**Examples**

```
path <- system.file("extdata", "biblio.bib", package = "bib2df")
bib <- bib2df_read(path)
bib <- bib2df_gather(bib)
```

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bib2df_read	<i>Read a .bib file.</i>
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**Description**

bib2df\_read() reads a .bib file to a character vector.

**Usage**

```
bib2df_read(file)
```

**Arguments**

file            character, path to a .bib file.

**Details**

bib2df\_read() uses base::readLines() to read from a local .bib file. UTF-8 compatibility is ensured.

**Value**

A character vector.

**Author(s)**

Philipp Ottolinger

## Examples

```
path <- system.file("extdata", "biblio.bib", package = "bib2df")
bib <- bib2df_read(path)
bib
```

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bib2df\_tidy

*Tidy a bib2df tibble.*

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## Description

bib2df\_tidy() aims to tidy a tibble resulting from bib2df\_gather().

## Usage

```
bib2df_tidy(bib)
```

## Arguments

bib,                   resulting from bib2df\_gather().

## Details

If multiple Authors or Editors are supplied, the respective character string is split up into a list. The year of publication is converted to as.numeric(). The CATEGORY column moves to the very left of the tibble.

## Value

A tibble.

## Author(s)

Philipp Ottolinger

## Examples

```
path <- system.file("extdata", "biblio.bib", package = "bib2df")
bib <- bib2df_read(path)
bib <- bib2df_gather(bib)
bib <- bib2df_tidy(bib)
bib
```

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