

Package ‘rticles’

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Type Package

Title Article Formats for R Markdown

Version 0.18

Description A suite of custom R Markdown formats and templates for authoring journal articles and conference submissions.

License GPL-3

Imports utils, rmarkdown (>= 2.5), knitr (>= 1.30), yaml, tinytex (>= 0.27), xfun

SystemRequirements GNU make

URL <https://github.com/rstudio/rticles>

BugReports <https://github.com/rstudio/rticles/issues>

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Suggests testit, bookdown, xtable

Encoding UTF-8

NeedsCompilation no

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Description

Most article formats are based on `rmarkdown::pdf_document()`, with a custom Pandoc LaTeX template and different default values for other arguments (e.g., `keep_tex = TRUE`).

Usage

```
acm_article(...)

acs_article(
  ...,
  keep_tex = TRUE,
  md_extensions = c("-autolink_bare_uris"),
  fig_caption = TRUE
)

aea_article(..., keep_tex = TRUE, md_extensions = c("-autolink_bare_uris"))

agu_article(
  ...,
  keep_tex = TRUE,
  citation_package = "natbib",
  highlight = NULL,
  md_extensions = c("-autolink_bare_uris", "-auto_identifiers")
)

amq_article(
  ...,
  latex_engine = "xelatex",
  keep_tex = TRUE,
  fig_caption = TRUE,
  md_extensions = c("-autolink_bare_uris")
)

ams_article(..., keep_tex = TRUE, md_extensions = c("-autolink_bare_uris"))

asa_article(..., keep_tex = TRUE, citation_package = "natbib")

arxiv_article(..., keep_tex = TRUE)

bioinformatics_article(..., keep_tex = TRUE, citation_package = "natbib")

biometrics_article(..., keep_tex = TRUE, citation_package = "natbib")
```

```
ctex_article(..., template = "default", latex_engine = "xelatex")

ctex(..., template = "default", latex_engine = "xelatex")

elsevier_article(
  ...,
  keep_tex = TRUE,
  md_extensions = c("-autolink_bare_uris")
)

frontiers_article(..., keep_tex = TRUE)

lipics_article(
  ...,
  latex_engine = "xelatex",
  keep_tex = TRUE,
  citation_package = "natbib",
  md_extensions = c("-autolink_bare_uris", "-auto_identifiers")
)

mdpi_article(..., keep_tex = TRUE)

mnras_article(..., keep_tex = TRUE, fig_caption = TRUE)

oup_article(..., keep_tex = TRUE, md_extensions = c("-autolink_bare_uris"))

peerj_article(..., keep_tex = TRUE)

plos_article(..., keep_tex = TRUE, md_extensions = c("-autolink_bare_uris"))

pnas_article(..., keep_tex = TRUE)

sage_article(..., highlight = NULL, citation_package = "natbib")

sim_article(..., highlight = NULL, citation_package = "natbib")

springer_article(..., keep_tex = TRUE, citation_package = "default")

tf_article(..., keep_tex = TRUE, citation_package = "natbib")
```

Arguments

..., keep_tex, latex_engine, citation_package, highlight, fig_caption, md_extensions, template
Arguments passed to rmarkdown::pdf_document().

Value

An R Markdown output format.

Details

You can find more details about each output format below.

acm_article

Format for creating an Association for Computing Machinery (ACM) articles. Adapted from <https://www.acm.org/publications/proceedings-template>.

acs_article

Format for creating an American Chemical Society (ACS) Journal articles. Adapted from <https://pubs.acs.org/page/4authors/submission/tex.html>.

aea_article

Format for creating submissions to the American Economic Association (AER, AEJ, JEL, PP).

agu_article

Format for creating a American Geophysical Union (AGU) article. Adapted from <https://www.agu.org/Publish-with-AGU/Publish/#1>.

amq_article

Ce format a été adapté du format du bulletin de l'AMQ.

ams_article

Format for creating an American Meteorological Society (AMS) Journal articles. Adapted from <https://www.ametsoc.org/ams/index.cfm/publications/authors/journal-and-bams-authors/author-resources/latex-author-info/>.

asa_article

This format was adapted from The American Statistician (TAS) format, but it should be fairly consistent across American Statistical Association (ASA) journals.

arxiv_article

Adapted from the George Kour's format for arXiv and bio-arXiv preprints. So far as I'm aware, entirely unofficial but still a staple.

bioinformatics_article

Format for creating submissions to a Bioinformatics journal. Adapted from https://academic.oup.com/bioinformatics/pages/submission_online.

biometrics_article

This format was adapted from the Biometrics journal.

ctex_article

A wrapper function for `rmarkdown::pdf_document()` and the default value of `latex_engine` is changed to `xelatex`, so it works better for typesetting Chinese documents with the LaTeX package **ctex**. The function `ctex` is an alias of `ctex_article`.

elsevier_article

Format for creating submissions to Elsevier journals. Adapted from <https://www.elsevier.com/authors/policies-and-guidelines/latex-instructions>.

frontiers_article

Format for creating Frontiers journal articles. Adapted from <https://www.frontiersin.org/about/author-guidelines>.

lipics_article

Format for creating submissions to LIPIcs - Leibniz International Proceedings Informatics - articles. Adapted from the official Instructions for Authors at <https://submission.dagstuhl.de/documentation/authors> and the template from the archive `authors-lipics-v2019.zip` downloaded with version tag `v2019.2`. The template is provided under The LaTeX Project Public License (LPPL), Version 1.3c.

mdpi_article

Format for creating submissions to Multidisciplinary Digital Publishing Institute (MDPI) journals. Adapted from <https://www.mdpi.com/authors/latex>.

mnras_article

Format for creating an Monthly Notices of Royal Astronomical Society (MNRAS) Journal articles. Adapted from <https://ras.ac.uk>.

oup_article

Format for creating submissions to many Oxford University Press journals. Adapted from https://academic.oup.com/journals/pages/authors/preparing_your_manuscript and https://academic.oup.com/icesjms/pages/General_Instructions.

peerj_article

Format for creating submissions to The PeerJ Journal. This was adapted from the [PeerJ Overleaf Template](#).

plos_article

Format for creating submissions to PLOS journals. Adapted from <https://journals.plos.org/ploscompbiol/s/latex>.

pnas_article

Format for creating submissions to PNAS journals.

sage_article

Format for creating submissions to Sage Journals. Based on the official Sage Journals <https://uk.sagepub.com/sites/default/files>

Possible arguments for the YAML header are:

- `title` title of the manuscript
- `runninghead` short author list for header
- `author` list of authors, containing name and num
- `address` list containing num and org for defining author affiliations
- `corrauth` corresponding author name and address
- `email` correspondence email
- `abstract` abstract, limited to 200 words
- `keywords` keywords for the article
- `bibliography` BibTeX .bib file name
- `classoption` options of the sagej class
- `header-includes`: custom additions to the header, before the `\begin{document}` statement
- `include-after`: for including additional LaTeX code before the `\end{document}` statement

sim_article

Format for creating submissions to Statistics in Medicine. Based on the official Statistics in Medicine [class](#).

Possible arguments for the YAML header are:

- `title` title of the manuscript
- `author` list of authors, containing name and num
- `address` list containing num and org for defining author affiliations
- `presentaddress` not sure what they mean with this
- `corres` author and address for correspondence
- `authormark` short author list for header
- `received`, `revised`, `accepted` dates of submission, revision, and acceptance of the manuscript
- `abstract` abstract, limited to 250 words
- `keywords` up to 6 keywords
- `bibliography` BibTeX .bib file
- `classoption` options of the WileyNJD-v2 class
- `longtable` set to true to include the longtable package, used by default from pandoc to convert markdown to LaTeX code
- `header-includes`: custom additions to the header, before the `\begin{document}` statement
- `include-after`: for including additional LaTeX code before the `\end{document}` statement

springer_article

This format was adapted from the Springer Macro package for Springer Journals.

tf_article

Format for creating submissions to a Taylor & Francis journal. Adapted from <https://www.tandf.co.uk/journals/authors/InteractCADLaTeX.zip>.

Examples

```
## Not run:
rmarkdown::draft("MyArticle.Rmd", template = "acm", package = "rticles")
rmarkdown::draft("MyArticle.Rmd", template = "asa", package = "rticles")
## End(Not run)
```

copernicus_article *Copernicus journals format.*

Description

Format for creating submissions to Copernicus journals.

Usage

```
copernicus_article(
  ...,
  keep_tex = TRUE,
  citation_package = "natbib",
  md_extensions = c("-autolink_bare_uris", "-auto_identifiers")
)

copernicus_journal_abbreviations(journal_name = "*")
```

Arguments

...	Additional arguments to <code>rmarkdown::pdf_document()</code> .
keep_tex	Keep the intermediate tex file used in the conversion to PDF
citation_package	The LaTeX package to process citations, natbib or biblatex. Use default if neither package is to be used, which means citations will be processed via the command <code>pandoc-citeproc</code> .
md_extensions	Markdown extensions to be added or removed from the default definition or R Markdown. See the rmarkdown_format for additional details.
journal_name	A regular expression to filter the by the journal name, see pattern in grep ; defaults to <code>*</code> .

Details

This was adapted from https://publications.copernicus.org/for_authors/manuscript_preparation.html.

An number of required and optional manuscript sections, e.g. acknowledgements, competing interests, or author contribution, must be declared using the respective properties of the R Markdown header - see skeleton file.

Version: Based on copernicus_package.zip in the version 5.3, 18 February 2019, using copernicus.cls in version 8.82.

Copernicus journal abbreviations: You can use the function copernicus_journal_abbreviations() to get the journal abbreviation for all journals supported by the copernicus article template.

Important note: The online guidelines by Copernicus are the official resource. Copernicus is not responsible for the community contributions made to support the template in this package. Copernicus converts all typeset TeX files into XML, the expressions and markups have to be highly standardized. Therefore, please keep the following in mind:

- Please provide only one figure file for figures with several panels, and please do not use `\subfloat` or similar commands.
- Please use only commands in which words, numbers, etc. are within braces (e.g. `\text{rm}{TEXT}` instead of `{\rm TEXT}`).
- For algorithms, please use the syntax given in template.tex or provide your algorithm as a figure.
- Please do not define new commands.
- The most commonly used packages (`\usepackage{}`) are integrated in the copernicus.cls. Some other packages often used by the community are defined in template.tex. Please do not insert additional ones in your *.tex file.
- Spaces in labels (`\label{}`) are not allowed; please make sure that no label name is assigned more than once.
- Please do not use `\paragraph{}`; only `\subsubsection{}` is allowed.
- It is not possible to add tables in colour.

Value

An R Markdown output format.

Note

If you use `rmarkdown::pdf_document()`, all internal references (i.e. tables and figures) must use `\ref{}` whereas with `bookdown::pdf_document2()`, you can additionally use `\@ref{}`.

References

Manuscript preparation guidelines for authors. https://publications.copernicus.org/for_authors/manuscript_preparation.html

Examples

```
names(copernicus_journal_abbreviations())
copernicus_journal_abbreviations(journal_name = "Science Data")
## Not run:
library("rmarkdown")
draft("MyArticle.Rmd", template = "copernicus", package = "rticles")
render("MyArticle/MyArticle.Rmd")

## End(Not run)
```

iee_article

IEEE Transactions journal format.

Description

Format for creating submissions to IEEE Transaction journals. Adapted from http://www.ieee.org/publications_standards/publications/authors/author_templates.html.

Usage

```
iee_article(
  draftmode = c("final", "draft", "draftcls", "draftclsnofoot"),
  hyphenfixes = "op-tical net-works semi-conduc-tor",
  IEEEspecialpaper = "",
  with_ifpdf = FALSE,
  with_cite = FALSE,
  with_amsmath = FALSE,
  with_algorithmic = FALSE,
  with_subfig = FALSE,
  with_array = FALSE,
  with_dbfloatfix = FALSE,
  keep_tex = TRUE,
  pandoc_args = NULL,
  md_extensions = c("-autolink_bare_uris"),
  ...
)
```

Arguments

<code>draftmode</code>	Specify the draft mode to control spacing and whether images should be rendered. Valid options are: "final" (default), "draft", "draftcls", or "draftclsnofoot".
<code>hyphenfixes</code>	A character value that provides the correct hyphenations for ambiguous words. Separate new words with spaces.
<code>IEEEspecialpaper</code>	A character value containing the publication's special paper designation.
<code>with_ifpdf</code>	A logical value turning on (TRUE) or off (FALSE) the ifpdf LaTeX package.

<code>with_cite</code>	A logical value turning on (TRUE) or off (FALSE) the cite LaTeX package.
<code>with_amsmath</code>	A logical value turning on (TRUE) or off (FALSE) the amsmath LaTeX package.
<code>with_algorithmic</code>	A logical value turning on (TRUE) or off (FALSE) the algorithmic LaTeX package.
<code>with_subfig</code>	A logical value turning on (TRUE) or off (FALSE) the subfig LaTeX package.
<code>with_array</code>	A logical value turning on (TRUE) or off (FALSE) the array LaTeX package.
<code>with_dbfloatfix</code>	A logical value turning on (TRUE) or off (FALSE) the dbfloatfix LaTeX package.
<code>keep_tex</code>	Keep the intermediate tex file used in the conversion to PDF
<code>pandoc_args</code>	Additional command line options to pass to pandoc
<code>md_extensions</code>	Markdown extensions to be added or removed from the default definition or R Markdown. See the rmarkdown_format for additional details.
<code>...</code>	Additional arguments to <code>rmarkdown::pdf_document</code>

Details

Presently, only the "conference" paper mode offered by the `IEEEtran.cls` is supported.

References

Shell, Michael. "How to use the IEEEtran LATEX class." *Journal of LATEX Class Files* 1.11 (2002): 10-20. http://mirrors.rit.edu/CTAN/macros/latex/contrib/IEEEtran/IEEEtran_HOWTO.pdf

`joss_article` *Journal of Open Source Software (JOSS) format.*

Description

Format for creating a Journal of Open Source Software (JOSS) or Journal of Open Source Education (JOSE) articles. Adapted from <https://github.com/openjournals/whedon>. As these journals take articles as markdown, this format can be used to generate markdown from R Markdown and to locally preview how the article will appear as PDF.

Usage

```
joss_article(journal = "JOSS", keep_md = TRUE, latex_engine = "xelatex", ...)
```

Arguments

<code>journal</code>	one of "JOSS" or "JOSE"
<code>keep_md</code>	Whether to retain the intermediate markdown and images. Defaults to TRUE.
<code>latex_engine, ...</code>	Arguments passed to <code>rmarkdown::pdf_document</code>

Details

The following variables may be set in YAML metadata to populate fields in the article PDF, but are only necessary for local preview: `formatted_doi`, `citation_author`, `year`, `volume`, `issue`, `page`, `submitted`, `published` and `archive_doi`.

journals	<i>List available journals</i>
----------	--------------------------------

Description

List available journal names in this package.

Usage

```
journals()
```

Details

These names can be useful in two ways:

- You can add `_article` suffix to get the name of the output format (e.g., `rjournal_article()`).
- You can use the name directly in the `template` argument of `rmarkdown::draft()`.

Value

A character vector of the journal names.

Examples

```
articles::journals()
```

jss_article	<i>Journal of Statistical Software (JSS) format.</i>
-------------	--

Description

Format for creating a Journal of Statistical Software (JSS) articles. Adapted from <https://www.jstatsoft.org/about/submissions>.

Usage

```
jss_article(
  ...,
  keep_tex = TRUE,
  citation_package = "natbib",
  pandoc_args = NULL
)
```

Arguments

...	Arguments to <code>rmarkdown::pdf_document</code>
<code>keep_tex</code>	Keep the intermediate tex file used in the conversion to PDF
<code>citation_package</code>	The LaTeX package to process citations, <code>natbib</code> or <code>biblatex</code> . Use default if neither package is to be used, which means citations will be processed via the command <code>pandoc-citeproc</code> .
<code>pandoc_args</code>	Additional command line options to pass to <code>pandoc</code>

`rjournal_article` *R Journal format.*

Description

Format for creating R Journal articles. Adapted from <https://journal.r-project.org/submissions.html>.

Usage

```
rjournal_article(..., keep_tex = TRUE, citation_package = "natbib")
```

Arguments

...	Arguments to <code>rmarkdown::pdf_document</code> .
<code>keep_tex</code>	Keep the intermediate tex file used in the conversion to PDF
<code>citation_package</code>	The LaTeX package to process citations, <code>natbib</code> or <code>biblatex</code> . Use default if neither package is to be used, which means citations will be processed via the command <code>pandoc-citeproc</code> .

Details

This file is only a basic article template. For full details of *The R Journal* style and information on how to prepare your article for submission, see the [Instructions for Authors](#)

About this format and the R Journal requirements:

`rticles::rjournal_article` will help you build the correct files requirements:

- A R file will be generated automatically using `kni tr::purl` - see <https://bookdown.org/yihui/rmarkdown-cookbook/purl.html> for more information.
- A tex file will be generated from this Rmd file and correctly included in `RJwapper.tex` as expected to build `RJwrapper.pdf`.
- All figure files will be kept in the default `rmarkdown*_files` folder. This happens because `keep_tex = TRUE` by default in `rticles::rjournal_article`
- Only the bib filename is to be modified. An example bib file is included in the template (`RJreferences.bib`) and you will have to name your bib file as the `tex`, `R`, and `pdf` files.

About YAML header fields

This section documents some of the YAML fields that can be used with this formats.

The author field in the YAML header:

FIELD	TYPE	DESCRIPTION
name	<i>required</i>	name and surname of the author
affiliation	<i>required</i>	name of the author's affiliation
address	<i>required</i>	at least one address line for the affiliation
url	<i>optional</i>	an additional url for the author or the main affiliation
orcid	<i>optional</i>	the authors ORCID if available
email	<i>required</i>	the author's e-mail address
affiliation2	<i>optional</i>	name of the author's 2nd affiliation
address2	<i>optional</i>	address lines belonging to the author's 2nd affiliation

Please note: Only one url, orcid and email can be provided per author.

Other YAML fields:

FIELD	TYPE	DESCRIPTION
bibliography	<i>with default</i>	the BibTeX file with the reference entries

rsos_article *Royal Society Open Science journal format.*

Description

Format for creating submissions to Royal Society Open Science journals.

Usage

```
rsos_article(
  ...,
  keep_tex = TRUE,
  latex_engine = "xelatex",
  pandoc_args = NULL,
  includes = NULL,
  fig_crop = TRUE
)
```

Arguments

... Additional arguments to `rmarkdown::pdf_document`

keep_tex Keep the intermediate tex file used in the conversion to PDF

latex_engine	LaTeX engine for producing PDF output. Options are "pdflatex", "lualatex", and "xelatex".
pandoc_args	Additional command line options to pass to pandoc
includes	Named list of additional content to include within the document (typically created using the <code>includes</code> function).
fig_crop	TRUE to automatically apply the pdfcrop utility (if available) to pdf figures

Author(s)

Thierry Onkelinx, <thierry.onkelinx@inbo.be>

rss_article *Royal Statistical Society Journal Format*

Description

Format for creating articles for Royal Statistical Society adapted from <https://rss.org.uk/news-publication/publications/journals/submit-paper/>.

Usage

```
rss_article(..., keep_tex = TRUE, citation_package = "natbib")
```

Arguments

...	Arguments to <code>rmarkdown::pdf_document</code>
keep_tex	Keep the intermediate tex file used in the conversion to PDF
citation_package	The LaTeX package to process citations, <code>natbib</code> or <code>biblatex</code> . Use default if neither package is to be used, which means citations will be processed via the command <code>pandoc-citeproc</code> .

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