Package ‘rticles’

June 23, 2021

Type Package

Title Article Formats for R Markdown

Version 0.20

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

License GPL-3

Imports utils, markdown (>= 2.5), knitr (>= 1.30), yaml, tinymce (>= 0.30), xfun

SystemRequirements GNU make

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

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

RoxygenNote 7.1.1

Suggests testit, bookdown, xtable

Encoding UTF-8

NeedsCompilation no

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1
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R topics documented:

- acm_article .................................................. 3
- copernicus_article ......................................... 9
- ieee_article .................................................. 11
- joss_article .................................................. 13
- journals ....................................................... 13
- jss_article .................................................. 14
- rjournal_article ............................................ 14
- rsos_article .................................................. 16
- rss_article ................................................... 16
acm_article

R Markdown output formats for (journal) articles

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

```r
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(..., keep_tex = TRUE, latex_engine = "xelatex", 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")

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

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

frontiers_article(..., keep_tex = TRUE)

ims_article(
  journal = c("aoas", "aap", "aop", "aos", "sts"),
  keep_tex = TRUE, 
  citation_package = "natbib", 
  md_extensions = c("-autolink_bare_uris"), 
  pandoc_args = NULL, 
  ...
)

jasa_article(
  ..., 
  keep_tex = TRUE, 
  latex_engine = "xelatex", 
  citation_package = "natbib"
)

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)

pihph_article(
  ..., 
  keep_tex = TRUE,
acm_article

```r
latex_engine = "xelatex",
citation_package = "biblatex"
)
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, pandoc_args

Arguments passed to `rmarkdown::pdf_document()`.

journal one of "aoas", "aap", "aop", "aos", "sts" for `ims_article`

**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](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](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](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 Statistican (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.

eversevier_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.

ims_article

Format for creating submissions to the Institute of Mathematical Statistics IMS journals and publications. Adapted from https://github.com/vtex-soft/texsupport.ims-aoas.

The argument journal accepts the acronym of any of the journals in IMS:
• aap: The Annals of Applied Probability
• aoas: The Annals of Applied Statistics
• aop: The Annals of Probability
• aos: The Annals of Statistics
• sts: Statistical Science

jasa_article

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

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.

pihph_article
Format for creating submissions to the Papers in Historical Phonology (http://journals.ed.ac.uk/pihph/about/submissions). Adapted from https://github.com/pihph/templates. This format works well with latex_engine = "xelatex" and citation_package="biblatex", which are the default. It may not work correctly if you change these value. In that case, please open an issue and, a PR to contribute a change in the 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


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
copernicus_article

- 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

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

```r
## Not run:
rmr::draft("MyArticle.Rmd", template = "acm", package = "rticles")
rmr::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, 
  highlight = NULL, 
  citation_package = "natbib", 
  md_extensions = c("-autolink_bare_uris", "-auto_identifiers")
)

copernicus_journal_abbreviations(journal_name = "*")

Arguments

... Additional arguments to `rmr::draft()`. Note: extra_dependencies are not allowed as Copernicus does not support additional packages included via \usepackage{}. 
keep_tex Keep the intermediate tex file used in the conversion to PDF
**highlight**


**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 pandoc-citeproc.

**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 *.

**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.


**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{TEXT} instead of \texttt{TEXT}).
- For algorithms, please use the syntax given in template.tex or provide your algorithm as a figure.
- Please do not define new commands.
- Supported packages (\usepackage{}) are already integrated in the copernicus.cls. Please do not insert additional ones in your *.tex file.
- If you opt for syntax highlighting for your preprint or other reasons, please do not forget to use highlight = NULL for your final file upload once your manuscript was accepted for publication.
- 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 \subsection{} 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)

ieee_article IEEE Transactions journal format.

Description

Usage
ieee_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_dblfloatfix = FALSE,
keep_tex = TRUE,
pandoc_args = NULL,
md_extensions = c("-autolink_bare_uris"),

Arguments

draftmode  Specify the draft mode to control spacing and whether images should be rendered. Valid options are: "final" (default), "draft", "draftcls", or "draftclsnofoot".

hyphenfixes  A character value that provides the correct hyphenations for ambiguous words. Separate new words with spaces.

IEEEspecialpaper  A character value containing the publication's special paper designation.

with_ifpdf  A logical value turning on (TRUE) or off (FALSE) the ifpdf LaTeX package.

with_cite  A logical value turning on (TRUE) or off (FALSE) the cite LaTeX package.

with_amsmath  A logical value turning on (TRUE) or off (FALSE) the amsmath LaTeX package.

with_algorithmic  A logical value turning on (TRUE) or off (FALSE) the algorithmic LaTeX package.

with_subfig  A logical value turning on (TRUE) or off (FALSE) the subfig LaTeX package.

with_array  A logical value turning on (TRUE) or off (FALSE) the array LaTeX package.

with dblfloatfix  A logical value turning on (TRUE) or off (FALSE) the dblfloatfix LaTeX package.

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

pandoc_args  Additional command line options to pass to pandoc.

md_extensions  Markdown extensions to be added or removed from the default definition or R Markdown. See the \texttt{rmarkdown\_format} for additional details.

Details

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

References

**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/wedon. 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**

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

**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, review_url, repository, and archive_doi.

**journals**  
*List available journals*

**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

gerbooks::journals()

---

### jss_article

**Journal of Statistical Software (JSS) format.**

**Description**

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

**Usage**

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

**Arguments**

- `...`: Arguments to `rmarkdown::pdf_document`
- `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 `pandoc-citeproc`.
- `pandoc_args`: Additional command line options to pass to pandoc

---

### rjournal_article

**R Journal format.**

**Description**

Format for creating R Journal articles. Adapted from [https://journal.r-project.org/submissions.html](https://journal.r-project.org/submissions.html).

**Usage**

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

... Arguments to rmarkdown::pdf_document.
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 pandoc-citeproc.

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 knitr::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 RJwrapper.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:

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

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

Other YAML fields:

<table>
<thead>
<tr>
<th>FIELD</th>
<th>TYPE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>bibliography</td>
<td>with default</td>
<td>the BibTeX file with the reference entries</td>
</tr>
</tbody>
</table>
**rsos_article**  
*Royal Society Open Science journal format.*

**Description**

Format for creating submissions to Royal Society Open Science journals.

**Usage**

```r
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 `includes` function).
- `fig_crop` TRUE to automatically apply the `pdfcrop` utility (if available) to pdf figures

**Author(s)**

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**rss_article**  
*Royal Statistical Society Journal Format*

**Description**


**Usage**

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

... Arguments to rmarkdown::pdf_document

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 pandoc-citeproc.
Index

acm_article, 3
acs_article(acm_article), 3
aea_article(acm_article), 3
agu_article(acm_article), 3
amq_article(acm_article), 3
ams_article(acm_article), 3
arxiv_article(acm_article), 3
asa_article(acm_article), 3
bioinformatics_article(acm_article), 3
biometrics_article(acm_article), 3
copernicus_article, 9
copernicus_journal_abbreviations
  (copernicus_article), 9
ctex(acm_article), 3
ctex_article(acm_article), 3
elsevier_article(acm_article), 3
frontiers_article(acm_article), 3
grep, 10
ieee_article, 11
ims_article(acm_article), 3
includes, 16
jasa_article(acm_article), 3
joss_article, 13
journals, 13
jss_article, 14
lipics_article(acm_article), 3
mdpi_article(acm_article), 3
mnras_article(acm_article), 3
oup_article(acm_article), 3
pdf_document, 5
peerj_article(acm_article), 3
pihph_article(acm_article), 3
plos_article(acm_article), 3
pnas_article(acm_article), 3
rjournal_article, 14
rjournal_article(), 13
rmarkdown::draft(), 13
rmarkdown::pdf_document, 15
rmarkdown_format, 10, 12
rsos_article, 16
rss_article, 16
sage_article(acm_article), 3
sim_article(acm_article), 3
springer_article(acm_article), 3
tf_article(acm_article), 3