Package ‘rticles’

September 11, 2021

Type     Package
Title    Article Formats for R Markdown
Version  0.21
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), yamln tinytex (>= 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
Config/Needs/website magick, pdftools, gifski, rstudio/quillt
NeedsCompilation no
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**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(..., 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)

glossa_article(..., keep_tex = TRUE, latex_engine = "xelatex")

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")
)

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

mdpi_article(..., keep_tex = TRUE)
acm_article

\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,  
  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.

**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](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/](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](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](https://www.elsevier.com/authors/policies-and-guidelines/latex-instructions).
**acm_article**

*frontiers_article*

Format for creating Frontiers journal articles. Adapted from [https://www.frontiersin.org/about/author-guidelines](https://www.frontiersin.org/about/author-guidelines).

**glossa_article**


**ims_article**


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](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.

**jedm_article**

Format for creating Journal of Educational Data Mining (JEDM) articles. Adapted from [https://jedm.educationaldatamining.org/index.php/JEDM/information/authors](https://jedm.educationaldatamining.org/index.php/JEDM/information/authors).

**mdpi_article**

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

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
**acm_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
- **correspondingauthor** 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

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

**Austrian Journal of Statistics (AJS) format.**

### Description

Format for creating a Austrian Journal of Statistics (AJS) article. Adapted from [https://www.jstatsoft.org/about/submissions](https://www.jstatsoft.org/about/submissions).

### Usage

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

### 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

## copernicus_article

**Copernicus journals format.**

### Description

Format for creating submissions to Copernicus journals.

### Usage

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

```r
copernicus_journal_abbreviations(journal_name = ")
```
Arguments

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


`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 `base::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, competinginterests, or authorcontribution, 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 `\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.
- 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 \\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](https://publications.copernicus.org/for_authors/manuscript_preparation.html)

**Examples**

```r
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**

```r
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 rmarkdown_format for additional details.

... Additional arguments to rmarkdown::pdf_document()

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](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**

```r
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` and ...

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**

```r
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

rticles::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.

Usage

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

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.

Usage

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

Arguments to `rmarkdown::pdf_document()`. Keep the intermediate tex file used in the conversion to PDF. 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:

`articles::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 markdown */_files* folder. This happens because `keep_tex = TRUE` by default in `articles::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

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", "xelatex" and "tectonic".
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 Whether to crop PDF figures with the command pdfcrop. This requires the tools pdfcrop and ghostscript to be installed. By default, fig_crop = TRUE if these two tools are available.

Author(s)

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

---

rss_article

Description

Usage

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.
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