An R Journal Article Template

by the R Journal Editors

This is a LaTeX template for R Journal authors. R Journal welcomes article submissions on any topic related to R ((Ihaka and Gentleman, 1996)).

The file `RJwrapper.tex` (that you should have downloaded at the same time you downloaded this template) plays the role of the complete R Journal issue document. It includes this file (`RJtemplate.tex`), which is not itself a complete LaTeX document (it has no `\begin{document}` or `\end{document}`).

Running `pdflatex` on `RJwrapper.tex` a couple of times (to get the Figure references right) will produce `RJwrapper.pdf` which shows how this template file would be typeset within an R Journal issue.

Two-column figures and tables

Currently, R Journal is typeset in two columns. By default, figures and tables will occupy only one column (see Figure 1), but you can use the `figure*` or `table*` environments to create a figure or table that spans both columns (see Figures 2 and 3).

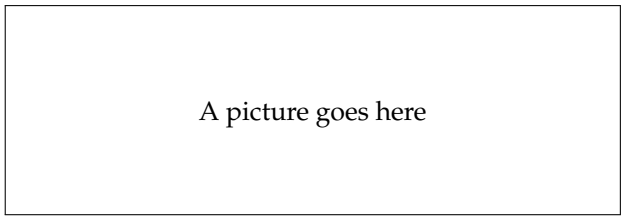

Figure 1: A normal figure only occupies one column.

References

The standard way to produce citations for R Journal is via the `\citep` and `\citet` commands and a `.bib` file that contains the references in BibTeX format.[1] The citation in the very first paragraph of this template is of the form `\citep{R:Ihaka+Gentleman:1996}`. Figure 2 shows an example file called `example.bib` which contains a single reference.

A bibliography is produced from `example.bib` by placing the following line in `RJtemplate.tex` (or whatever you end up calling it:

```
\bibliography{example}
```

and running `pdflatex` then `bibtex` on the file `RJwrapper.tex`.

You can make the R Journal editors job a bit easier if, at this point, you replace the line:

```
\bibliography{example}
```

with the contents of the file `RJwrapper.bbl`. Figure 3 shows what this`RJwrapper.bbl` looks like when produced from `example.bib` (in Figure 2).

Summary

The steps involved in preparing an article for submission to R Journal are as follows:

- download `RJwrapper.tex`, `RJtemplate.tex`, and `RJournal.sty`.
- rename `RJtemplate.tex` to something more appropriate, `yourarticle.tex` say, and replace its contents with the contents of your article.
- (if appropriate) create a `yourarticle.bib` file and add
  `\bibliography{yourarticle}`
  at the end of `yourarticle.tex`.
- modify `RJwrapper.tex` to include `yourarticle` rather than `RJtemplate`.
- (if appropriate) run `pdflatex` then `bibtex` on `RJwrapper.tex` to create `RJwrapper.bbl`. Replace
  `\bibliography{yourarticle}`
  in `yourarticle.tex` with the contents of `RJwrapper.bbl`.
- run `pdflatex` on `RJwrapper.tex` a couple of times (until all figure references are resolved) to produce `RJwrapper.pdf`.
- iterate until `RJwrapper.pdf` looks right, then submit
  - `RJwrapper.pdf`
  - `yourarticle.tex`
  - all necessary figure files

Bibliography

R. Ihaka and R. Gentleman. R: A language for data analysis and graphics. *Journal of Computational and Graphical Statistics*, 5(3):299–314, 1996. URL `http://www.amstat.org/publications/jcgs/`.

[1] We use the `natbib` package for citations.

```
@ARTICLE{R:Ihaka+Gentleman:1996,
  AUTHOR = {Ross Ihaka and Robert Gentleman},
  TITLE = {R: A Language for Data Analysis and Graphics},
  JOURNAL = {Journal of Computational and Graphical Statistics},
  YEAR = 1996,
  VOLUME = 5,
  NUMBER = 3,
  PAGES = {299--314},
  URL = {http://www.amstat.org/publications/jcgs/}
}
```

Figure 2: The contents of a file called `example.bib`. This figure uses the `figure*` environment to span two columns.

```
\begin{thebibliography}{1}
\expandafter\ifx\csname natexlab\endcsname\relax\def\natexlab#1{#1}\fi
\expandafter\ifx\csname url\endcsname\relax
  \def\url#1{{\tt #1}}\fi

\bibitem[Ihaka and Gentleman(1996)]{R:Ihaka+Gentleman:1996}
R.~Ihaka and R.~Gentleman.
\newblock R: A language for data analysis and graphics.
\newblock {\em Journal of Computational and Graphical Statistics}, 5\penalty0
  (3):\penalty0 299--314, 1996.
\newblock URL \url{http://www.amstat.org/publications/jcgs/}.

\end{thebibliography}
```

Figure 3: The contents of a file called `RJwrapper.bbl`. This figure also uses the `figure*` environment to span two columns.