

RESEARCH ARTICLE**A demonstration of the \LaTeX class file for Statistics in Medicine with Rmarkdown**A. Uthor*^{1,2} | O. Tro² | O. Vriga³¹Department of Incredible Research,
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corresponding address. Email:
authorone@gmail.com**Present Address**This is sample for present address text this is
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KEYWORDS:Class file; \LaTeX ; Statist. Med.; Rmarkdown;**1 | THE ARTICLE HEADER INFORMATION**

YAML header:

output:

```
rticles::sim_article:
  keep_tex: TRUE
```

Configure the YAML header including the following elements:

- title: Title
- author: List of author(s) 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`: 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

1.1 | Remarks

1. In `authormark` use *et al.* if there are three or more authors.
2. Note the use of `num` to link names and addresses.
3. For submitting a double-spaced manuscript, add `doublespace` as an option to a `classoption` line in the YAML header:
`classoption: doublespace.`
4. Keywords are separated by semicolons.

2 | THE BODY OF THE ARTICLE

2.1 | Mathematics

Use mathematics in Rmarkdown as usual.

2.2 | Figures and Tables

Figures are supported from R code:

```
x = rnorm(10)
y = rnorm(10)
plot(x, y)
```

...and can be referenced (Figure 1) by including the `\\label{}` tag in the `fig.cap` attribute of the R chunk: `fig.cap = "Fancy Caption\\label{fig:plot}"`. It is a quirky hack at the moment, see [here](#).

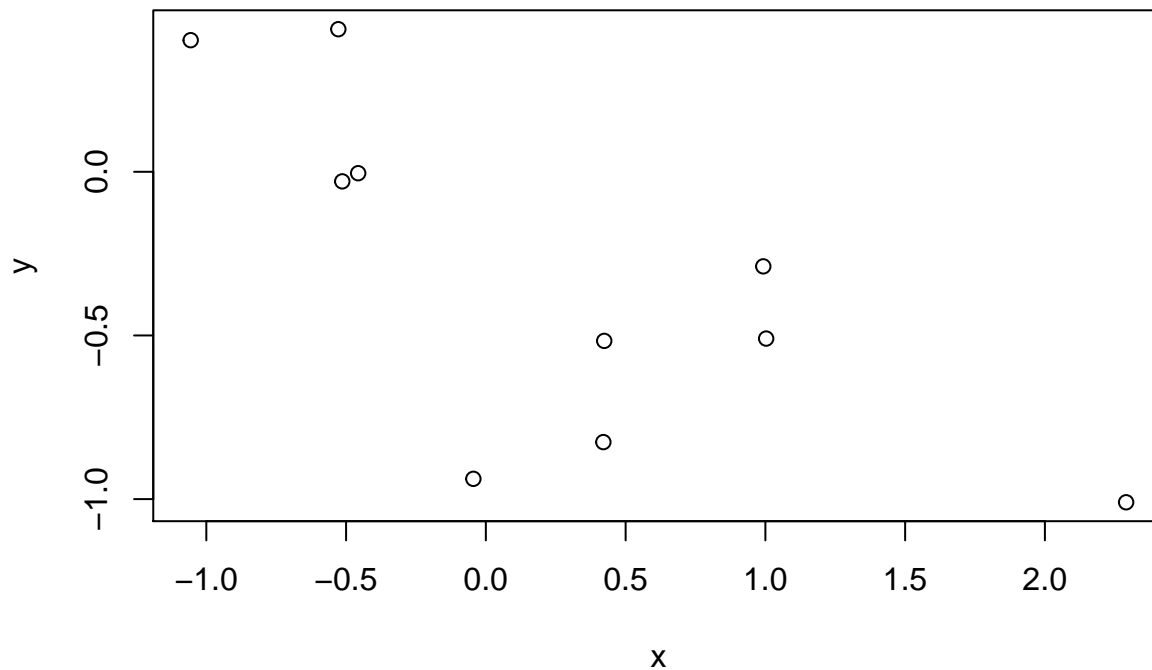
Analogously, use Rmarkdown to produce tables as usual:

```
if (!require("xtable")) install.packages("xtable")

## Loading required package: xtable

xt <- xtable(head(cars), caption = "A table", label = "tab:table")
print(xt, comment = FALSE)
```

Referenced via 1 . You can also use the YAML option `header-includes` to includes custom \LaTeX packages for tables (keep in mind that `pandoc` uses `longtables` by default, and it is hardcoded; some things may require including the package `longtable`). E.g., using `ctable`:

**FIGURE 1** Fancy Caption

| | speed | dist |
|---|-------|-------|
| 1 | 4.00 | 2.00 |
| 2 | 4.00 | 10.00 |
| 3 | 7.00 | 4.00 |
| 4 | 7.00 | 22.00 |
| 5 | 8.00 | 16.00 |
| 6 | 9.00 | 10.00 |

TABLE 1 A table

header-includes:
- \usepackage{ctable}

Then, just write straight-up L^AT_EX code and reference is as usual (`\ref{tab:ctable}`):

```
\ctable[cap = {Short caption},
caption = {A long, long, long, long, long caption for this table.},
label={tab:ctable},]
{cc}
{
\tnote[ $\ast$ ]{Footnote 1}
\tnote[ $\dagger$ ]{Other footnote}
\tnote[b]{Mistakes are possible.}
```

```

    }{
    \FL
    COL 1\tmark[a] & COL 2\tmark[$\ast$]
    \ML
    6.92\tmark[$\dagger$] & 0.09781 \\\
    6.93\tmark[$\dagger$] & 0.09901 \\\
    97 & 2000
    \LL
  }

```

It is also possible to set the YAML option `longtable: true` and use markdown tables (or the `knitr::kable` function): `knitr::kable(head(cars))` produces the same table as the `xtable` example presented before.

2.3 | Cross-referencing

The use of the Rmarkdown equivalent of the \LaTeX cross-reference system for figures, tables, equations, etc., is encouraged (using `[@<name>]`, equivalent of `\ref{<name>}` and `\label{<name>}`). That works well for citations in Rmarkdown, not so well for figures and tables. In that case, it is possible to revert to standard \LaTeX syntax.

2.4 | Double Spacing

If you need to double space your document for submission please use the `doubleSPACE` option in the header.

3 | BIBLIOGRAPHY

Link a `.bib` document via the YAML header, and bibliography will be printed at the very end (as usual). The default bibliography style is provided by Wiley as in `WileyNJD-AMA.bst`, do not delete that file.

Use the Rmarkdown equivalent of the \LaTeX citation system using `[@<name>]`. Example:^{1, 2, 3}.

To include all citation from the `.bib` file, add `\nocite{*}` before the end of the document.

4 | FURTHER INFORMATION

All \LaTeX environments supported by the main template are supported here as well; see the `.tex` sample file here for more details and example.

References

1. Taylor GI, Green AE. Mechanism of the production of small eddies from large ones. *P Roy Soc Lond A Mat.* 1937;158(895):499–521.
2. Knupp PM. Winslow smoothing on two-dimensional unstructured meshes. *Eng Comput.* 1999;15:263–268.
3. Kamm J. *Evaluation of the Sedov-von Neumann-Taylor blast wave solution*. Technical Report LA-UR-00-6055: Los Alamos National Laboratory; 2000.

