
A demonstration of the \LaTeX class file for Statistical Methods in Medical Research with Rmarkdown

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Abstract

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Keywords

Class file; \LaTeX ; SMMR; Rmarkdown;

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The Article Header Information

YAML header:

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

Configure the YAML header including the following elements:

- **title:** Title
- **runninghead:** Author last names, use *et al.* if there are three or more authors.
- **author:** List of author(s) containing name and num
- **corrauth:** Corresponding author's name and address.
- **email:** Correspondence email
- **abstract:** Limited to 200 words
- **keywords:** Keywords for the article
- **bibliography:** BibTeX .bib file
- **bibliographystyle:** sageh or sagev
- **classoption:** options of the sagej class

Remarks

2. `bibliographystyle`
3. `classoption`
4. Keywords are separated by commas.

The Body of the Article

Mathematics

Use mathematics in Rmarkdown as usual.

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")
```

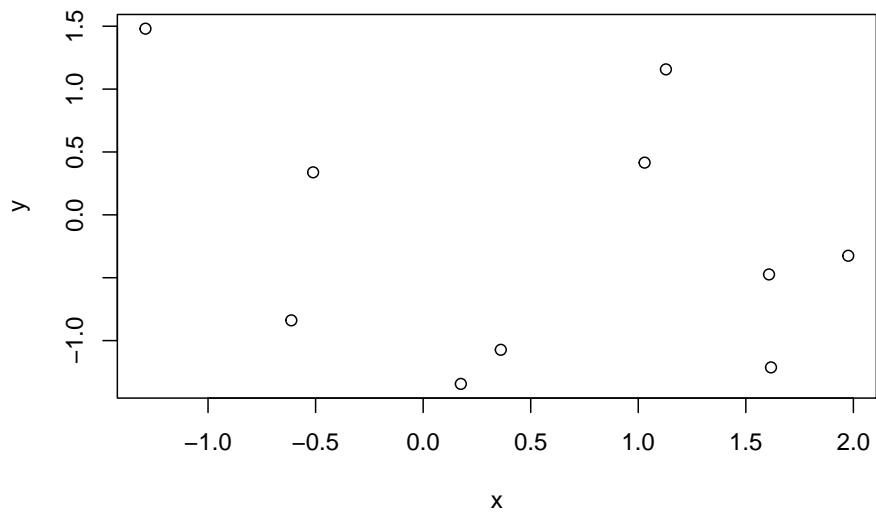


Figure 1. Fancy Caption

```
## Loading required package: xtable

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

| | 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

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`:

```
header-includes:
```

– \usepackage{ctable}

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

```
\ctable[cap = {Short caption},
        caption = {A 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.

Cross-referencing

The use of the Rmarkdown equivalent of the L^AT_EXcross-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 L^AT_EXsyntax.

Double Spacing

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

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: (Taylor and Green, 1937), (Knupp, 1999; Kamm, 2000).

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

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

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