

Short Paper

true true true true

2024-09-16

Abstract

This is the abstract.
It consists of two paragraphs.

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1 Bibliography styles

Here are two sample references: Feynman and Vernon Jr. (1963; Dirac 1953).

By default, natbib will be used with the `authoryear` style, set in `classoption` variable in YAML and with `elsarticle-harv.bst` which is among provided style by `elsarticle` documentclass. Other available style are `elsarticle-num.bst` and `elsarticle-num-names.bst` — the first one can be used for the numbered scheme, second one for numbered with new options of natbib.sty.

You can sets extra options with `natbiboptions` variable in YAML header. Example

```
natbiboptions: longnamesfirst,angle,semicolon
```

There are various more specific bibliography styles available at https://support.stmdocs.in/wiki/index.php?title=Model-wise_bibliographic_style_files. To use one of these, add it in the header using, for example, `biblio-style: model1-num-names`.

1.1 Using CSL

If `citation_package` is set to `default` in `elsevier_article()`, then `pandoc` is used for citations instead of `natbib`. In this case, the `cs1` option is used to format the references. Alternative `cs1` files are available from <https://www.zotero.org/styles?q=elsevier>. These can be downloaded and stored locally, or the url can be used as in the example header.

2 Equations

Here is an equation:

$$f_X(x) = \left(\frac{\alpha}{\beta}\right) \left(\frac{x}{\beta}\right)^{\alpha-1} e^{-\left(\frac{x}{\beta}\right)^\alpha}; \alpha, \beta, x > 0.$$

Here is another:

$$a^2 + b^2 = c^2. \tag{1}$$

Inline equations: $\sum_{i=2}^{\infty} \{\alpha_i^\beta\}$

3 Figures and tables

Figure 1 is generated using an R chunk.

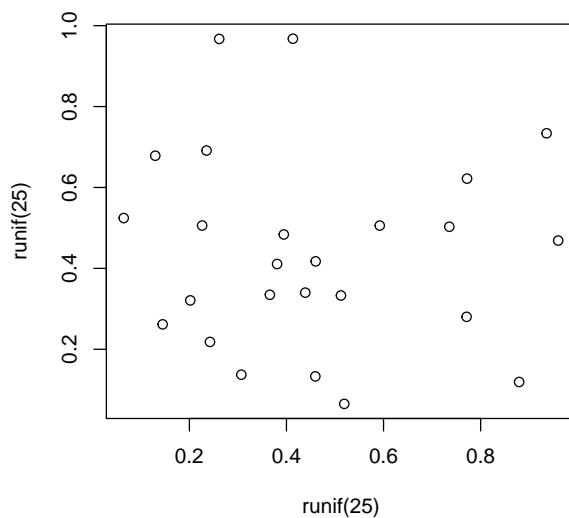


Figure 1: A meaningless scatterplot.

4 Tables coming from R

Tables can also be generated using R chunks, as shown in Table 1 for example.

Table 1: Caption centered above table

	mpg	cyl	disp	hp
Mazda RX4	21.0	6	160	110
Mazda RX4 Wag	21.0	6	160	110
Datsun 710	22.8	4	108	93
Hornet 4 Drive	21.4	6	258	110
Hornet Sportabout	18.7	8	360	175
Valiant	18.1	6	225	105

```
knitr::kable(head(mtcars)[,1:4],
  caption = "\\label{tab1}Caption centered above table"
)
```

References

- Dirac, P. A. M. 1953. “The Lorentz Transformation and Absolute Time.” *Physica* 19 (1–12): 888–96. [https://doi.org/10.1016/S0031-8914\(53\)80099-6](https://doi.org/10.1016/S0031-8914(53)80099-6).
- Feynman, R. P, and F. L Vernon Jr. 1963. “The Theory of a General Quantum System Interacting with a Linear Dissipative System.” *Annals of Physics* 24: 118–73. [https://doi.org/10.1016/0003-4916\(63\)90068-X](https://doi.org/10.1016/0003-4916(63)90068-X).