

# Research Article

## A Short Subtitle

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<sup>b</sup>USC, Department Name, Street Address, City, Postal Code

<sup>c</sup>National Institutes of Health, Department Name, Street Address, City, Postal Code

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**Keywords:** keyword1, keyword2, keyword3

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**Keywords:** keyword1, keyword2, keyword3

**Highlights:** These are the highlights.

### 1. Abstract

#### 1.1. Background

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#### 1.2. Methods

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#### 1.3. Results

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#### 1.4. Discussion

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<sup>1</sup>This is the first author footnote.

<sup>2</sup>Another author footnote, this is a very long footnote and it should be a really long footnote. But this footnote is not yet sufficiently long enough to make two lines of footnote text.

<sup>3</sup>Yet another author footnote.

## 2. Introduction

Here is a citation<sup>1</sup>.

## 3. Methods

3.1. *Participants*

3.2. *Measures*

3.3. *Analytical Strategy*

## 4. Results

```
# Note the path that we need to use to access our data files when rendering this document
my_data <- read.csv(here::here('src/data/raw_data/my_csv_file.csv'))
```

```
plot(rnorm(10))
```

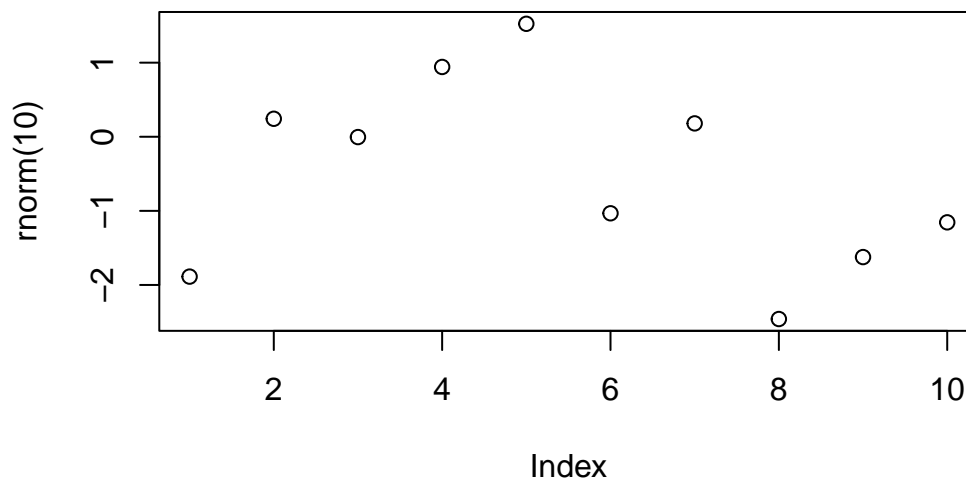


Figure 1: A plot of random numbers

Figure Figure 1 shows how we can have a caption and cross-reference for a plot. Note that figure label and cross-references must both be prefixed with **fig-**

Here is an example of inline code 3.14 in the middle of a sentence.

Here is an example of inline code 3.14 in the middle of a sentence.

## 5. Discussion

## 6. Acknowledgements

## 7. References

### 7.0.1. Colophon

This report was generated on 2023-01-18 10:50:16 using the following computational environment and dependencies:

```
# which R packages and versions?
if ("devtools" %in% installed.packages()) devtools::session_info()

- Session info -----
setting  value
version  R version 4.2.2 Patched (2023-01-06 r83584)
os       macOS Big Sur ... 10.16
system   x86_64, darwin17.0
ui       X11
language (EN)
collate  en_US.UTF-8
ctype    en_US.UTF-8
tz       America/Los_Angeles
date     2023-01-18
pandoc   2.19.2 @ /usr/local/bin/ (via rmarkdown)

- Packages -----
! package      * version      date (UTC) lib source
P cachem       1.0.6.9000    2022-11-30 [?] https://r-lib.r-universe.dev (R 4.2.2)
P callr        3.7.3.9000    2022-12-24 [?] https://r-lib.r-universe.dev (R 4.2.2)
P cli          3.6.0.9000    2023-01-11 [?] https://r-lib.r-universe.dev (R 4.2.2)
P collapse     * 1.9.0        2023-01-15 [?] CRAN (R 4.2.0)
P colorspace   2.1-0         2022-12-13 [?] https://r-forge.r-universe.dev (R 4.2.2)
P crayon       1.5.2         2022-09-29 [?] CRAN (R 4.2.0)
P data.table   * 1.14.6       2022-11-16 [?] CRAN (R 4.2.0)
P devtools     2.4.5.9000    2022-10-11 [?] https://r-lib.r-universe.dev (R 4.2.1)
P digest       0.6.31        2022-12-11 [?] CRAN (R 4.2.0)
P dplyr        * 1.0.99.9000  2023-01-04 [?] repository (https://github.com/tidyverse/dplyr@dbda0c7)
P ellipsis     0.3.2.9000    2022-12-11 [?] https://r-lib.r-universe.dev (R 4.2.2)
P evaluate     0.20.1        2023-01-17 [?] https://r-lib.r-universe.dev (R 4.2.2)
P fansi        1.0.3         2022-03-24 [?] CRAN (R 4.2.0)
P fastmap      1.1.0.9000    2022-12-23 [?] https://r-lib.r-universe.dev (R 4.2.2)
P fastverse    * 0.3.0        2022-11-15 [?] CRAN (R 4.2.0)
P forcats      * 0.5.2.9000    2023-01-10 [?] repository (https://github.com/tidyverse/forcats@bd319e0)
P fs           1.5.2.9000    2022-12-21 [?] https://r-lib.r-universe.dev (R 4.2.2)
P generics     0.1.3.9000    2023-01-01 [?] https://r-lib.r-universe.dev (R 4.2.2)
P ggplot2      * 3.4.0.9000    2023-01-06 [?] https://tidyverse.r-universe.dev (R 4.2.2)
P glue         1.6.2.9000    2022-12-18 [?] https://tidyverse.r-universe.dev (R 4.2.2)
P gtable       0.3.1.9000    2022-12-24 [?] https://r-lib.r-universe.dev (R 4.2.2)
P hms          1.1.2.9002    2022-12-30 [?] https://tidyverse.r-universe.dev (R 4.2.2)
P htmltools    0.5.4.9000    2023-01-03 [?] https://rstudio.r-universe.dev (R 4.2.2)
P htmlwidgets  1.6.1         2023-01-07 [?] CRAN (R 4.2.0)
P httpuv       1.6.8.9000    2023-01-12 [?] https://rstudio.r-universe.dev (R 4.2.2)
P jsonlite     1.8.4         2022-12-06 [?] CRAN (R 4.2.0)
P kit          * 0.0.12        2022-10-26 [?] CRAN (R 4.2.0)
P knitr        1.41.9        2023-01-06 [?] https://yihui.r-universe.dev (R 4.2.2)
P later        1.3.0.9000    2023-01-10 [?] https://r-lib.r-universe.dev (R 4.2.2)
```

P lifecycle	1.0.3.9000	2023-01-05	[?]	<a href="https://r-lib.r-universe.dev">https://r-lib.r-universe.dev</a> (R 4.2.2)
P lubridate	* 1.9.0.9000	2022-12-12	[?]	<a href="https://ropensci.r-universe.dev">https://ropensci.r-universe.dev</a> (R 4.2.2)
P magrittr	* 2.0.3.9000	2022-12-25	[?]	<a href="https://tidyverse.r-universe.dev">https://tidyverse.r-universe.dev</a> (R 4.2.2)
P memoise	2.0.1.9000	2023-01-03	[?]	<a href="https://r-lib.r-universe.dev">https://r-lib.r-universe.dev</a> (R 4.2.2)
P mime	0.12.1	2022-12-18	[?]	<a href="https://yihui.r-universe.dev">https://yihui.r-universe.dev</a> (R 4.2.2)
P miniUI	0.1.1.1	2018-05-18	[?]	CRAN (R 4.2.0)
P munsell	0.5.0	2018-06-12	[?]	CRAN (R 4.2.0)
P pillar	1.8.1.9006	2023-01-01	[?]	<a href="https://r-lib.r-universe.dev">https://r-lib.r-universe.dev</a> (R 4.2.2)
P pkgbuild	1.4.0.9000	2022-11-27	[?]	<a href="https://r-lib.r-universe.dev">https://r-lib.r-universe.dev</a> (R 4.2.2)
P pkgconfig	2.0.3	2019-09-22	[?]	CRAN (R 4.2.0)
P pkgload	1.3.2.9000	2022-11-16	[?]	<a href="https://r-lib.r-universe.dev">https://r-lib.r-universe.dev</a> (R 4.2.2)
P prettyunits	1.1.1.9000	2022-11-30	[?]	<a href="https://r-lib.r-universe.dev">https://r-lib.r-universe.dev</a> (R 4.2.2)
P processx	3.8.0.9000	2022-12-18	[?]	<a href="https://r-lib.r-universe.dev">https://r-lib.r-universe.dev</a> (R 4.2.2)
P profvis	0.3.7.9000	2022-04-27	[?]	<a href="https://rstudio.r-universe.dev">https://rstudio.r-universe.dev</a> (R 4.2.0)
P promises	1.2.0.9000	2022-04-28	[?]	<a href="https://rstudio.r-universe.dev">https://rstudio.r-universe.dev</a> (R 4.2.0)
P ps	1.7.2.9000	2022-12-26	[?]	<a href="https://r-lib.r-universe.dev">https://r-lib.r-universe.dev</a> (R 4.2.2)
P purrr	* 1.0.1.9000	2023-01-10	[?]	<a href="https://tidyverse.r-universe.dev">https://tidyverse.r-universe.dev</a> (R 4.2.2)
P R6	2.5.1.9000	2022-12-27	[?]	<a href="https://r-lib.r-universe.dev">https://r-lib.r-universe.dev</a> (R 4.2.2)
P Rcpp	1.0.9	2022-07-08	[?]	CRAN (R 4.2.0)
P readr	* 2.1.3.9000	2022-12-11	[?]	<a href="https://tidyverse.r-universe.dev">https://tidyverse.r-universe.dev</a> (R 4.2.2)
P remotes	2.4.2	2021-11-30	[?]	CRAN (R 4.2.0)
renv	0.16.0-53	2023-01-13	[1]	<a href="https://rstudio.r-universe.dev">https://rstudio.r-universe.dev</a> (R 4.2.2)
P rlang	1.0.6.9000	2022-12-17	[?]	<a href="https://r-lib.r-universe.dev">https://r-lib.r-universe.dev</a> (R 4.2.2)
P rmarkdown	2.19.2	2022-12-22	[?]	Github (rstudio/rmarkdown@8fabad0)
P scales	1.2.1.9000	2023-01-01	[?]	<a href="https://r-lib.r-universe.dev">https://r-lib.r-universe.dev</a> (R 4.2.2)
P sessioninfo	1.2.2.9000	2022-05-14	[?]	<a href="https://r-">https://r-</a>
P shiny	1.7.4.9001	2023-01-06	[?]	<a href="https://rstudio.r-universe.dev">https://rstudio.r-universe.dev</a> (R 4.2.2)
P stringi	1.7.12	2023-01-11	[?]	CRAN (R 4.2.2)
P stringr	* 1.5.0.9000	2022-12-07	[?]	<a href="https://tidyverse.r-universe.dev">https://tidyverse.r-universe.dev</a> (R 4.2.2)
P tibble	* 3.1.8.9004	2022-12-30	[?]	<a href="https://tidyverse.r-universe.dev">https://tidyverse.r-universe.dev</a> (R 4.2.2)
P tidyr	* 1.2.1.9001	2023-01-10	[?]	repository ( <a href="https://github.com/tidyverse/tidyr@9174795">https://github.com/tidyverse/tidyr@9174795</a> )
P tidyselect	1.2.0.9000	2023-01-09	[?]	<a href="https://r-lib.r-universe.dev">https://r-lib.r-universe.dev</a> (R 4.2.2)
P tidyverse	* 1.3.2.9000	2023-01-05	[?]	repository ( <a href="https://github.com/tidyverse/tidyverse@3be8283">https://github.com/tidyverse/tidyverse@3be8283</a> )
P timechange	0.2.0	2023-01-11	[?]	CRAN (R 4.2.0)
P tzdb	0.3.0.9000	2023-01-04	[?]	<a href="https://r-lib.r-universe.dev">https://r-lib.r-universe.dev</a> (R 4.2.2)
P urlchecker	1.0.1.9000	2022-05-14	[?]	<a href="https://r-">https://r-</a>
P usethis	2.1.6.9000	2022-12-13	[?]	Github (r-lib/usethis@a98a0e6)
P utf8	1.2.2	2021-07-24	[?]	CRAN (R 4.2.0)
P vctrs	0.5.1.9000	2023-01-09	[?]	Github (r-lib/vctrs@4c57418)
P withr	2.5.0.9000	2022-12-26	[?]	<a href="https://r-lib.r-universe.dev">https://r-lib.r-universe.dev</a> (R 4.2.2)
P xfun	0.36.1	2023-01-12	[?]	<a href="https://yihui.r-universe.dev">https://yihui.r-universe.dev</a> (R 4.2.2)
P xtable	1.8-6	2022-04-14	[?]	<a href="https://r-forge.r-universe.dev">https://r-forge.r-universe.dev</a> (R 4.2.0)
P yaml	2.3.6	2022-10-18	[?]	CRAN (R 4.2.0)

[1] /Users/joey/.renv/library/rrtools-8440cc86/R-4.2/x86\_64-apple-darwin17.0

[2] /Users/joey/dev/rrtools/renv/sandbox/R-4.2/x86\_64-apple-darwin17.0/84ba8b13

P -- Loaded and on-disk path mismatch.

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The current Git commit details are:

```
# what commit is this file at?  
if ("git2r" %in% installed.packages() & git2r::in_repository(path = ".")) git2r::repository(here::h
```

Local: main /Users/joey/dev/rrtools  
Remote: main @ origin (https://github.com/brainworkup/rrtools.git)  
Head: [3233761] 2023-01-18: UPDATE

## References

- [1] B. Marwick, [Computational reproducibility in archaeological research: Basic principles and a case study of their implementation](#), Journal of Archaeological Method and Theory 24 (2) (2017) 424–450. doi:10.1007/s10816-015-9272-9.  
URL <https://doi.org/10.1007/s10816-015-9272-9>