The title

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This is the abstract.

# Introduction

## R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

In Table 1 we can see some data about the relationship between pressure and tempurature. We can reference the table by the ID of the code chunk that produces the table, like this: \@ref(tab:carstab)

Table 1: Data about cars

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | mpg | cyl | disp | hp | drat | wt | qsec | vs | am | gear | carb |
| Mazda RX4 | 21.0 | 6 | 160 | 110 | 3.90 | 2.620 | 16.46 | 0 | 1 | 4 | 4 |
| Mazda RX4 Wag | 21.0 | 6 | 160 | 110 | 3.90 | 2.875 | 17.02 | 0 | 1 | 4 | 4 |
| Datsun 710 | 22.8 | 4 | 108 | 93 | 3.85 | 2.320 | 18.61 | 1 | 1 | 4 | 1 |
| Hornet 4 Drive | 21.4 | 6 | 258 | 110 | 3.08 | 3.215 | 19.44 | 1 | 0 | 3 | 1 |
| Hornet Sportabout | 18.7 | 8 | 360 | 175 | 3.15 | 3.440 | 17.02 | 0 | 0 | 3 | 2 |
| Valiant | 18.1 | 6 | 225 | 105 | 2.76 | 3.460 | 20.22 | 1 | 0 | 3 | 1 |

## Including Plots

You can also embed plots, for example:



Figure 1: Plot of car data

In Figure 1 we can see some data about pressure. We can cross-reference the figure like this: \@ref(fig:pressureplot), using the chunk ID as the key to link the cross-reference to the figure.

Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.

## Citations and References

We can have a citation, using a .bib file that holds all the details. To get this: (Marwick, 2016) we type [@Marwick2016repro]. The text after the @ is the bibtex key that links the in-text citation to the full details in the .bib file.

All of the usual variations on in-text citation formatting are possible in markdown, and listed for reference here: <http://rmarkdown.rstudio.com/authoring_bibliographies_and_citations.html>

### Colophon

This report was generated on 2016-10-26 14:24:38 using the following computational environment and dependencies:

Table 2: R session information

|  |  |
| --- | --- |
| Setting | Value |
| version | R version 3.3.1 (2016-06-21) |
| system | x86\_64, mingw32 |
| ui | RTerm |
| language | (EN) |
| collate | English\_Australia.1252 |
| tz | America/Los\_Angeles |
| date | 2016-10-26 |

Table 3: Packages that this report depends on

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| package | \* | version | date | source |
| assertthat |  | 0.1 | 2013-12-06 | CRAN (R 3.3.1) |
| bookdown |  | 0.1.9 | 2016-09-21 | Github ([rstudio/bookdown@5217517](mailto:rstudio/bookdown@5217517)) |
| devtools |  | 1.12.0 | 2016-06-24 | CRAN (R 3.3.1) |
| digest |  | 0.6.10 | 2016-08-02 | CRAN (R 3.3.1) |
| evaluate |  | 0.9 | 2016-04-29 | CRAN (R 3.3.1) |
| formatR |  | 1.4 | 2016-05-09 | CRAN (R 3.3.1) |
| highr |  | 0.6 | 2016-05-09 | CRAN (R 3.3.1) |
| htmltools |  | 0.3.5 | 2016-03-21 | CRAN (R 3.3.1) |
| httpuv |  | 1.3.3 | 2015-08-04 | CRAN (R 3.3.1) |
| knitr | \* | 1.14.4 | 2016-09-21 | Github ([yihui/knitr@54ea64f](mailto:yihui/knitr@54ea64f)) |
| magrittr |  | 1.5 | 2014-11-22 | CRAN (R 3.3.1) |
| memoise |  | 1.0.0 | 2016-01-29 | CRAN (R 3.3.1) |
| mime |  | 0.5 | 2016-07-07 | CRAN (R 3.3.1) |
| miniUI |  | 0.1.1 | 2016-01-15 | CRAN (R 3.3.1) |
| R6 |  | 2.1.3 | 2016-08-19 | CRAN (R 3.3.1) |
| Rcpp |  | 0.12.7 | 2016-09-05 | CRAN (R 3.3.1) |
| rmarkdown |  | 1.0.9013 | 2016-09-21 | Github ([rstudio/rmarkdown@5d05a39](mailto:rstudio/rmarkdown@5d05a39)) |
| rstudioapi |  | 0.6 | 2016-06-27 | CRAN (R 3.3.1) |
| shiny |  | 0.14 | 2016-09-10 | CRAN (R 3.3.1) |
| stringi |  | 1.1.1 | 2016-05-27 | CRAN (R 3.3.1) |
| stringr |  | 1.1.0 | 2016-08-19 | CRAN (R 3.3.1) |
| tibble |  | 1.2 | 2016-08-26 | CRAN (R 3.3.1) |
| withr |  | 1.0.2 | 2016-06-20 | CRAN (R 3.3.1) |
| xtable |  | 1.8-2 | 2016-02-05 | CRAN (R 3.3.1) |
| yaml |  | 2.1.13 | 2014-06-12 | CRAN (R 3.3.1) |

The current git commit of this file is 114be6c38fe4dcdcb207d0b1aea7c75754e0193f, which is on the master branch and was made by Ben Marwick on 2016-10-20 16:10:52. The current commit message is "add orchid badge".

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## References

Marwick, B., 2016. Computational reproducibility in archaeological research: Basic principles and a case study of their implementation. Journal of Archaeological Method and Theory 1–27. doi:[10.1007/s10816-015-9272-9](https://doi.org/10.1007/s10816-015-9272-9)