A Super Cool Study

Josephine Student

John J. Curtin

2024-03-08

Abstract

This study found some pretty cool results that have both high impact and important clinical implications. For example …

## Introduction

You can write your text using markdown.

Top level section headings use ##

Notice use of curly braces to label a section if you want to later cross-reference to it. #sec- is required as part of the label

### Sub-heading Demo

You can use sub-headings in your paper as well

### Symbols and Equations

You can use quarto inline or display math equations as needed. Quarto provides [details](https://quarto.org/docs/authoring/markdown-basics.html#equations) on the use of these equations.

For example and are two variables. And here is an important formula:

### Tables

Tables are generally created and output from notebooks in the /notebooks folder. You can then embed these tables in your manuscript.

Table 1. A table.

|  | Group 1 | | Group 2 | | Group 3 |
| --- | --- | --- | --- | --- | --- |
|  | mpg | cyl | disp | hp | drat |
| Mazda RX4 | 21.0 | 6 | 160.0 | 110 | 3.90 |
| Mazda RX4 Wag | 21.0 | 6 | 160.0 | 110 | 3.90 |
| Datsun 710 | 22.8 | 4 | 108.0 | 93 | 3.85 |
| Hornet 4 Drive | 21.4 | 6 | 258.0 | 110 | 3.08 |
| Hornet Sportabout | 18.7 | 8 | 360.0 | 175 | 3.15 |
| Valiant | 18.1 | 6 | 225.0 | 105 | 2.76 |
| Duster 360 | 14.3 | 8 | 360.0 | 245 | 3.21 |
| Merc 240D | 24.4 | 4 | 146.7 | 62 | 3.69 |
| Merc 230 | 22.8 | 4 | 140.8 | 95 | 3.92 |
| Merc 280 | 19.2 | 6 | 167.6 | 123 | 3.92 |

Alternatively, this is an example of a simple table that is hard-coded using markdown table format. We don’t recommend this for tables built from data. Tables values should come directly from data so they don’t need to be typed in and will update if your data change. However, you may have other uses for simple tables where this method is helpful.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table 1: Recent historic eruptions on La Palma   | Name | Year | | --- | --- | | Current | 2021 | | Teneguía | 1971 | | Nambroque | 1949 | | El Charco | 1712 | | Volcán San Antonio | 1677 | | Volcán San Martin | 1646 | | Tajuya near El Paso | 1585 | | Montaña Quemada | 1492 | |

### Figures

Figures are also generally created in separate notebooks and embedded into your manuscript.

|  |
| --- |
| Figure 1: A Basic Barplot Figure |

We can also insert image files directly into our manuscript using images that are saved in the /images folder

|  |
| --- |
| Figure 2: Map of La Palma |

### References

We can use cite relevant research in multiple formats. The two most common are:

* Marrero et al. (2019) concluded something.
* These are the conclusions(Marrero et al. 2019).

Article references are stored in a .bib file using betterbibtex (BBT) format. We create these references in Zotero collections.

Although we don’t do this regularly I think, if needed you can

Issue with Typst breaking on [“unnumbered references”](https://github.com/typst/typst/issues/1142)

Change number-sections: in YAML to TRUE to fix this (although that causes unwanted numbering!) - reference figures elsewhere using the @ symbol. Here is a reference to [Figure 1](#fig-1)

## Methods

## Results

To add results that are not figures or tables, you will need to open the analysis objects you saved from these analyses. See lm.qmd as an example. Generally you will open csv files that contain tidied results. For example

A significant effect of speed was observed ( = 3.9, t = 9.46, p = 0.000).

NOTES:

* We should write a function that works with tidied coeffs tables and takes the row, column, and number of decimal places to make this code simpler.
* This table doesnt contain df. Need to add that to table when saving in lm

## Discussion

## References

Marrero, José, Alicia García, Manuel Berrocoso, Ángeles Llinares, Antonio Rodríguez-Losada, and R. Ortiz. 2019. “Strategies for the Development of Volcanic Hazard Maps in Monogenetic Volcanic Fields: The Example of La Palma (Canary Islands).” *Journal of Applied Volcanology* 8 (July). <https://doi.org/10.1186/s13617-019-0085-5>.