

A Super Cool Study - Take 2

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Abstract

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

Keywords: Substance use disorders Precision mental health

Introduction

You can write your text using markdown.

- Top level section headings use `##` because `#` is reserved for the manuscript title.
- APA (and other?) formats support `##`, `###`, and `####` at least.

Sub-heading - level 3

This is the `###` level

Sub-heading - level 4

This is the `####` level

Sub-heading - level 5. This is the `#####` level

Symbols and Equations

You can use quarto inline or display math equations as needed. Quarto provides details on the use of these equations.

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

$$p(x) = \frac{e^{-\lambda} \lambda^x}{x!}$$

Citations & References

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

- [1] concluded something.
- These are the conclusions[1].

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 reference figures elsewhere using the @ symbol. Here is a reference to Figure 1

Methods

This is the methods section.

Results

Results include

- Markdown text
- Figures from data
- Figures from images (maybe included table images)
- Analysis output (i.e. statistics)

We demonstrate each (other than markdown text, which you should know!) below

Data Figures

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

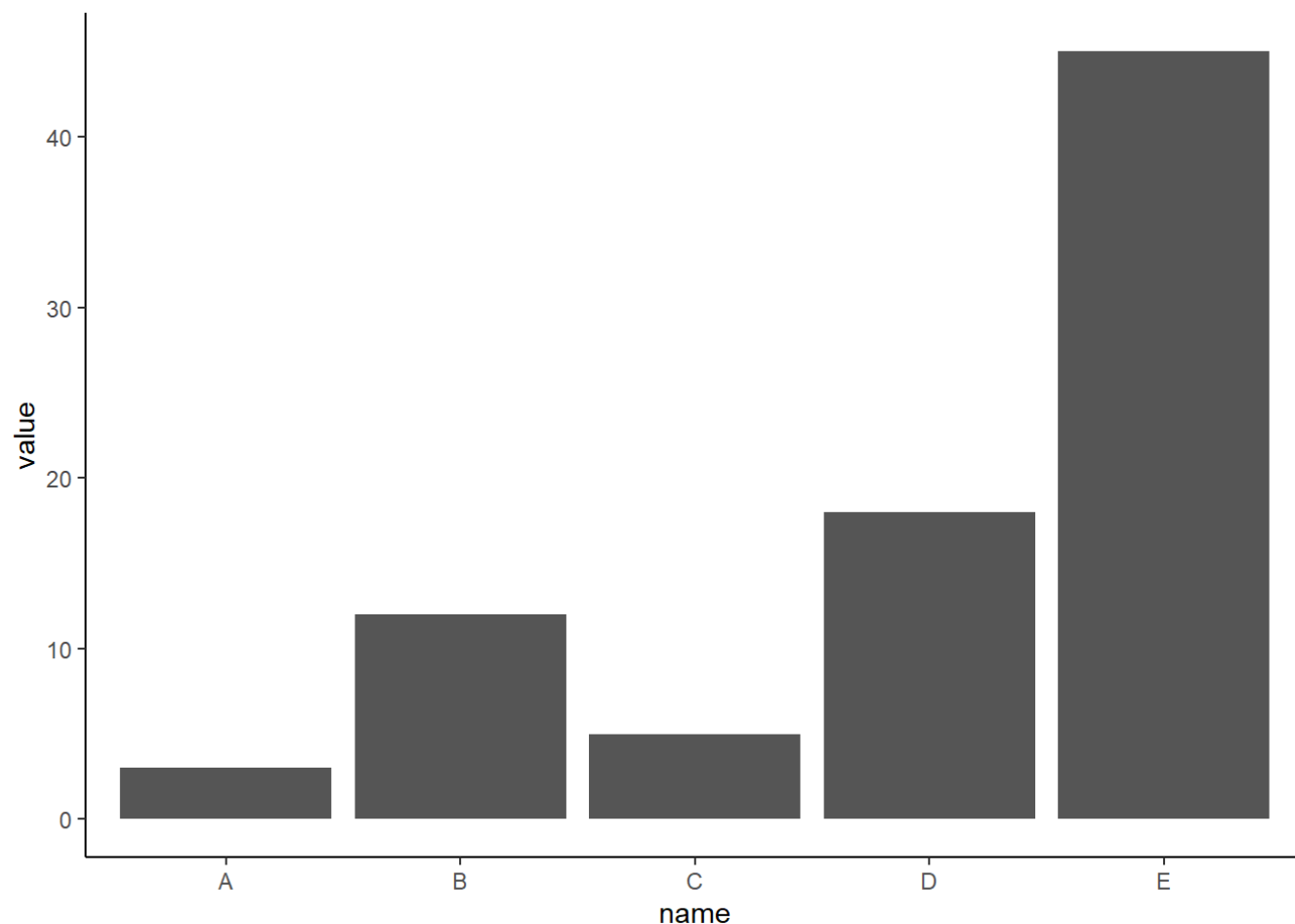


Figure 1: A Basic Barplot Figure

Figures from images

Images from figures can be included using the standard code to insert image files. These images should generally be saved in the image folder at the root of the study template by convention. The quarto website provides additional details



Figure 2: ARC Logo

Tables

We create tables using the `kableExtra` package. You can embed a table from a notebook in the same way you do a figure:

	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

Table 1: Table 1. A table.

Alternatively, you can use `kableExtra::save_kable()` in your notebook to output a .png file, which can then be linked as any image is linked. In the notebook you will see specifications for high-resolution output.

Table 1: Table as Image

	mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
Mazda RX4	21.0	6	160.0	110	3.90	2.62	0.16	4	0	1	4
Mazda RX4 Wag	21.0	6	160.0	110	3.90	2.87	0.17	0	0	1	4
Datsun 710	22.8	4	108.0	93	3.85	2.32	0.18	6	1	1	4
Hornet 4 Drive	21.4	6	258.0	110	3.08	3.21	0.15	1	0	3	1
Hornet Sportabout	18.7	8	360.0	175	3.15	3.44	0.17	0	0	3	2
Valiant	18.1	6	225.0	105	2.76	3.46	0.20	2	1	0	3
Duster 360	14.3	8	360.0	245	3.21	3.57	0.15	8	0	0	3
Merc 240D	24.4	4	146.7	62	3.69	3.19	0.20	0	0	1	4
Merc 230	22.8	4	140.8	95	3.92	3.15	0.22	9	0	1	4
Merc 280	19.2	6	167.6	123	3.92	3.44	0.18	3	0	1	4
Merc 280C	17.8	6	167.6	123	3.92	3.44	0.18	9	0	1	4
Merc 450SE	16.4	8	275.8	180	3.07	4.07	0.17	4	0	0	3
Merc 450SL	17.3	8	275.8	180	3.07	3.73	0.17	6	0	0	3
Merc 450SLC	15.2	8	275.8	180	3.07	3.78	0.18	0	0	0	3
Cadillac Fleetwood	10.4	8	472.0	205	2.93	5.25	0.17	9	0	0	3
Lincoln Continental	10.4	8	460.0	215	3.00	5.42	0.17	8	0	0	3
Chrysler Imperial	14.7	8	440.0	230	3.23	5.34	0.17	4	0	0	3
Fiat 128	32.4	4	78.7	66	4.08	2.20	0.19	4	1	1	4
Honda Civic	30.4	4	75.7	52	4.93	1.61	0.15	1	8	1	4
Toyota Corolla	33.9	4	71.1	65	4.22	1.83	0.15	1	9	1	4
Toyota Corona	21.5	4	120.1	97	3.70	2.46	0.20	0	1	0	3
Dodge Challenger	15.5	8	318.0	150	2.76	3.52	0.16	8	7	0	3
AMC Javelin	15.2	8	304.0	150	3.15	3.43	0.17	3	0	0	3
Camaro Z28	13.3	8	350.0	245	3.73	3.84	0.15	4	0	0	3
Pontiac Firebird	19.2	8	400.0	175	3.08	3.84	0.15	7	0	0	3
Fiat X1-9	27.3	4	79.0	66	4.08	1.93	0.15	1	8	1	4
Porsche 914-2	26.0	4	120.3	91	4.43	2.14	0.16	7	0	1	5
Lotus Europa	30.4	4	95.1	113	3.77	1.51	0.13	1	6	1	5
Ford Pantera L	15.8	8	351.0	264	4.22	3.17	0.14	5	0	1	5
Ferrari Dino	19.7	6	145.0	175	3.62	2.77	0.15	5	0	1	5
Maserati Bora	15.0	8	301.0	335	3.54	3.57	0.14	6	0	1	5
Volvo 142E	21.4	4	121.0	109	4.11	2.78	0.18	6	0	1	4

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 2: 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

Analysis Results

To add results that are not figures or tables, you will need to open the 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 ($\beta = 3.9$, $t = 9.46$, $p = 0.000$).

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

Bibliography

- [1] D. E. Knuth, “Literate Programming”, *Comput. J.*, vol. 27, no. 2, p. 97, May 1984, doi: 10.1093/comjnl/27.2.97.