

A template for writing manuscripts in Rmarkdown

Francisco Rodríguez-Sánchez^{1,2*} Second Author³

¹ Estación Biológica de Doñana (CSIC)

² Universidad de Sevilla

³ Second Author affiliation

* Corresponding author: example@example.com

Write your abstract here.

Keywords: Rmarkdown, reproducible science

INTRODUCTION

Write your introduction here.

You can cite **bibliography** like this (Yan and Gerstein 2011, Sutherland et al. 2011) if you provide a BibTeX file with references. You can also search for references on PubMed, DataCite or Crossref, cite by DOI, or read them from your Zotero library or a shared Zotero group (see <https://rstudio.github.io/visual-markdown-editing/#/citations> and https://rmarkdown.rstudio.com/authoring_bibliographies_and_citations.html for more information).

You can also specify the desired output format for your bibliography (see `cs1` field in the YAML above). Many different bibliography styles (CSL files) can be obtained at <https://zotero.org/styles> or <https://github.com/citation-style-language/styles>.

METHODS

Study Area

We worked in a **beautiful** place with lots of trees, like *Quercus suber* and *Laurus nobilis*.

Data collection and analysis

We applied a linear model where

$$y_i = \alpha + \beta * x_i$$

We used the statistical language R (R Core Team 2020) for all our analyses. These were implemented in dynamic rmarkdown documents using `knitr` (Xie 2014, 2015, 2021) and `rmarkdown` (Xie et al. 2018, 2020, Allaire et al. 2021) packages. All the multilevel models were

29 fitted with lme4 ([Bates et al. 2015](#)).

30 RESULTS

31 Trees in forest *A* grew taller than those in forest *B* (mean height: 25 versus 13 m).

32 And many more cool results that get updated dynamically, e.g. see Table [2](#) and Fig. [1](#). Note

33 Tables and Figures are **cross-linked and numbered automatically**. They could also appear in
34 the middle of the document, not necessarily at the end.

35 See also Fig. [S1](#) and Table [S1](#) in the Supplementary Material.

36 DISCUSSION

37 Discuss.

38 CONCLUSIONS

39 Wrap up

40 ACKNOWLEDGEMENTS

41 On the shoulders of giants.

42 REFERENCES

43 Allaire, J., Y. Xie, J. McPherson, J. Luraschi, K. Ushey, A. Atkins, H. Wickham, J. Cheng, W.

44 Chang, and R. Iannone. 2021. Rmarkdown: Dynamic documents for r.

45 Bates, D., M. Mächler, B. Bolker, and S. Walker. 2015. Fitting linear mixed-effects models using

46 lme4. Journal of Statistical Software 67:1–48.

47 R Core Team. 2020. R: A language and environment for statistical computing. R Foundation for
 48 Statistical Computing, Vienna, Austria.

49 Sutherland, W. J., D. Goulson, S. G. Potts, and L. V. Dicks. 2011. Quantifying the impact and
 50 relevance of scientific research. PLoS ONE 6:e27537.

51 Xie, Y. 2014. Knitr: A comprehensive tool for reproducible research in R. *in* V. Stodden, F. Leisch,
 52 and R. D. Peng, editors. Implementing reproducible computational research. Chapman;
 53 Hall/CRC.

54 Xie, Y. 2015. Dynamic documents with R and knitr. 2nd edition. Chapman; Hall/CRC, Boca
 55 Raton, Florida.

56 Xie, Y. 2021. Knitr: A general-purpose package for dynamic report generation in r.

57 Xie, Y., J. J. Allaire, and G. Golemund. 2018. R markdown: The definitive guide. Chapman;
 58 Hall/CRC, Boca Raton, Florida.

59 Xie, Y., C. Dervieux, and E. Riederer. 2020. R markdown cookbook. Chapman; Hall/CRC, Boca
 60 Raton, Florida.

61 Yan, K.-K., and M. Gerstein. 2011. The spread of scientific information: Insights from the web
 62 usage statistics in PLoS article-level metrics. PLoS ONE 6:e19917.

63 List of Tables

64	1	A glimpse of the famous Iris dataset.	6
65	2	Now a subset of mtcars dataset.	7
66	S1	A supplementary table.	12

Table 1: A glimpse of the famous Iris dataset.

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
5.1	3.5	1.4	0.2	setosa
4.9	3.0	1.4	0.2	setosa
4.7	3.2	1.3	0.2	setosa
4.6	3.1	1.5	0.2	setosa
5.0	3.6	1.4	0.2	setosa
5.4	3.9	1.7	0.4	setosa

Table 2: Now a subset of mtcars dataset.

	mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
Merc 280	19.2	6	167.6	123	3.92	3.440	18.30	1	0	4	4
Merc 280C	17.8	6	167.6	123	3.92	3.440	18.90	1	0	4	4
Merc 450SE	16.4	8	275.8	180	3.07	4.070	17.40	0	0	3	3
Merc 450SL	17.3	8	275.8	180	3.07	3.730	17.60	0	0	3	3
Merc 450SLC	15.2	8	275.8	180	3.07	3.780	18.00	0	0	3	3
Cadillac Fleetwood	10.4	8	472.0	205	2.93	5.250	17.98	0	0	3	4
Lincoln Continental	10.4	8	460.0	215	3.00	5.424	17.82	0	0	3	4

67 **List of Figures**

68	1	Just my first figure with a very fantastic caption.	9
69	2	Second figure in landscape format.	10
70	S1	A Supplementary Figure.	13

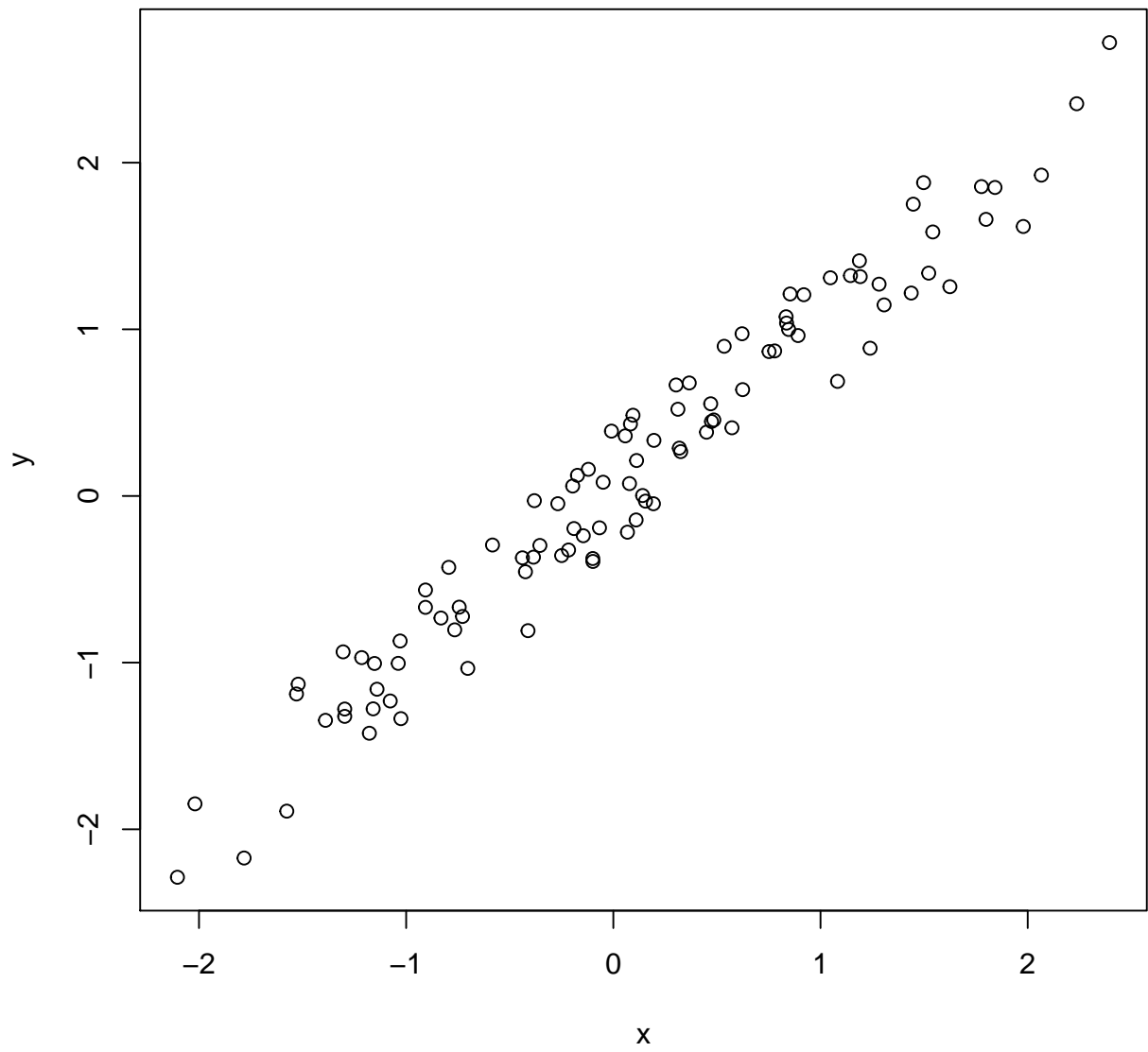


Figure 1: Just my first figure with a very fantastic caption.

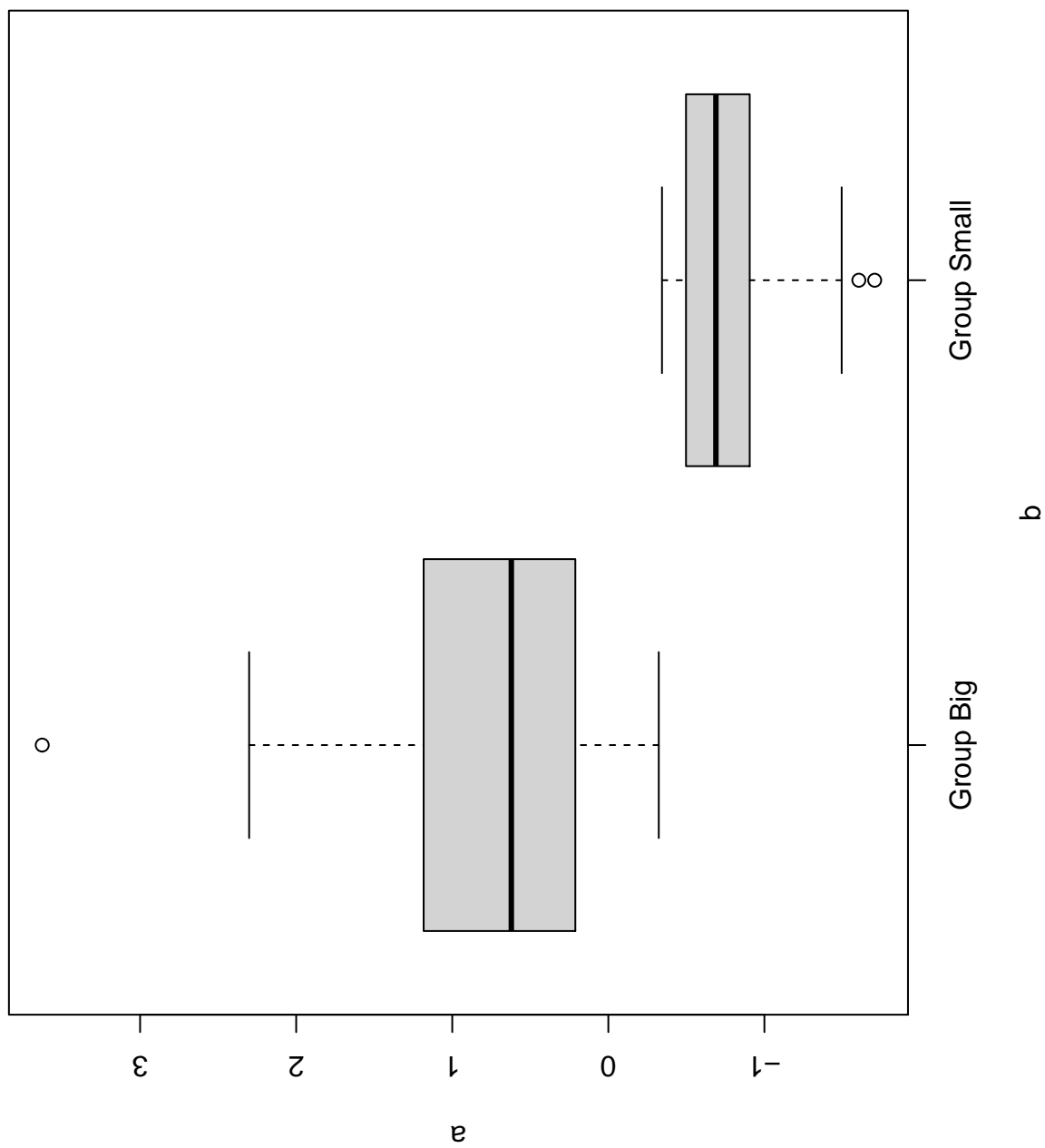


Figure 2: Second figure in landscape format.

Table S1: A supplementary table.

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
5.1	3.5	1.4	0.2	setosa
4.9	3.0	1.4	0.2	setosa
4.7	3.2	1.3	0.2	setosa
4.6	3.1	1.5	0.2	setosa
5.0	3.6	1.4	0.2	setosa
5.4	3.9	1.7	0.4	setosa

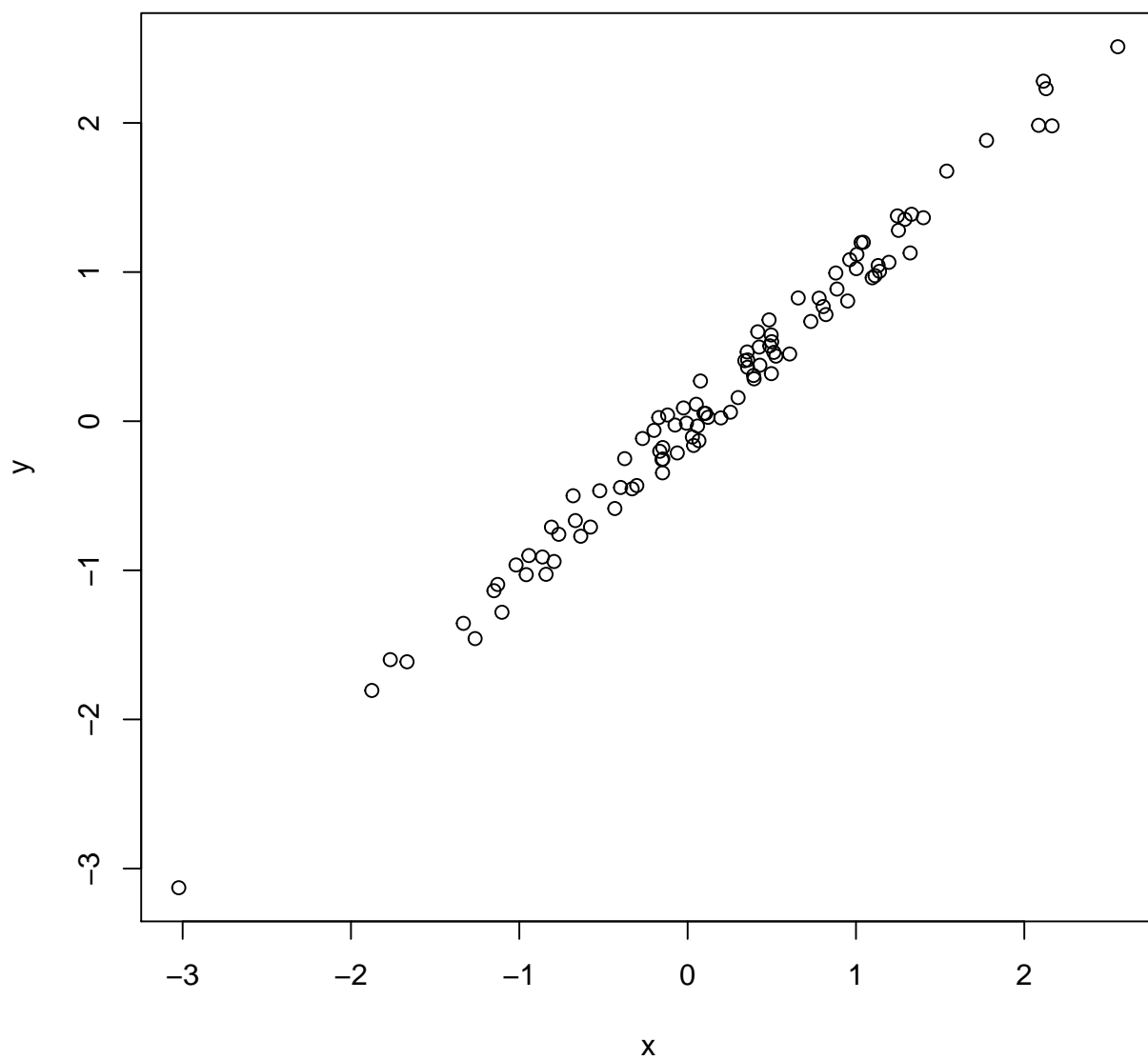


Figure S1: A Supplementary Figure.