A template for writing manuscripts in Rmarkdown

Jeffrey W. Hollister [1,2] Francisco Rodriguez-Sanchez [* 3]

[1] *US Environmental Protection Agency, Office of Research and Development, National Health and Environmental Effects Research Laboratory, Atlantic Ecology Division, 27 Tarzwell Drive Narragansett, RI, 02882, USA*

[2] *Big Name University, Department of R, City, BN, 01020, USA*

[3] *Estacion Biologica de Donana (EBD-CSIC), E-41092 Sevilla, Spain*

[*] *corresponding author: f.rodriguez.sanc@gmail.com*

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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. See http://rmarkdown.rstudio.com/authoring_bibliographies_and_citations.html for more information. Or you could also use knitcitations or RefManageR to fetch bibliographic metadata automatically from the web. For example, citing a paper can be as easy as providing its DOI (Clark and Gelfand 2006) or even just a few keywords (Ricklefs 2008). They will then automagically appear in the list of cited references.(Yan and Gerstein 2011)

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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 2016) for all our analyses. These were implemented in dynamic rmarkdown documents using `knitr` (Xie 2014, 2015, 2016) and `rmarkdown` (Allaire et al. 2016) packages. All the multilevel models were fitted with `lme4` (Bates et al. 2015).

RESULTS

Trees in forest A grew taller than those in forest B (mean height: 25 versus 13 m). And many more cool results that get updated dynamically.

DISCUSSION

Discuss.

CONCLUSIONS

ACKNOWLEDGEMENTS

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List of Tables

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

List of Figures

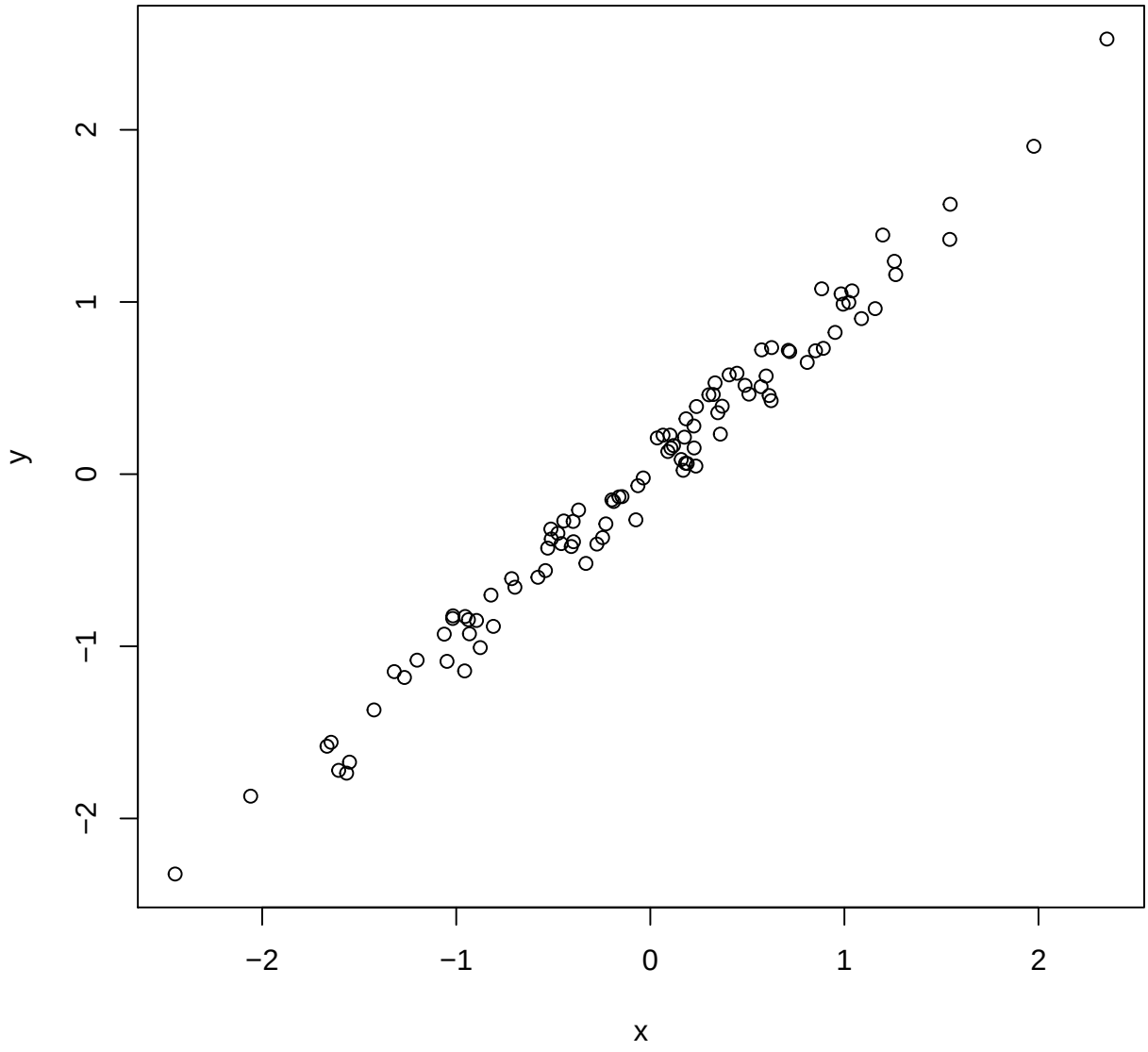

Figure 1: Just my first figure with a very fantastic caption.

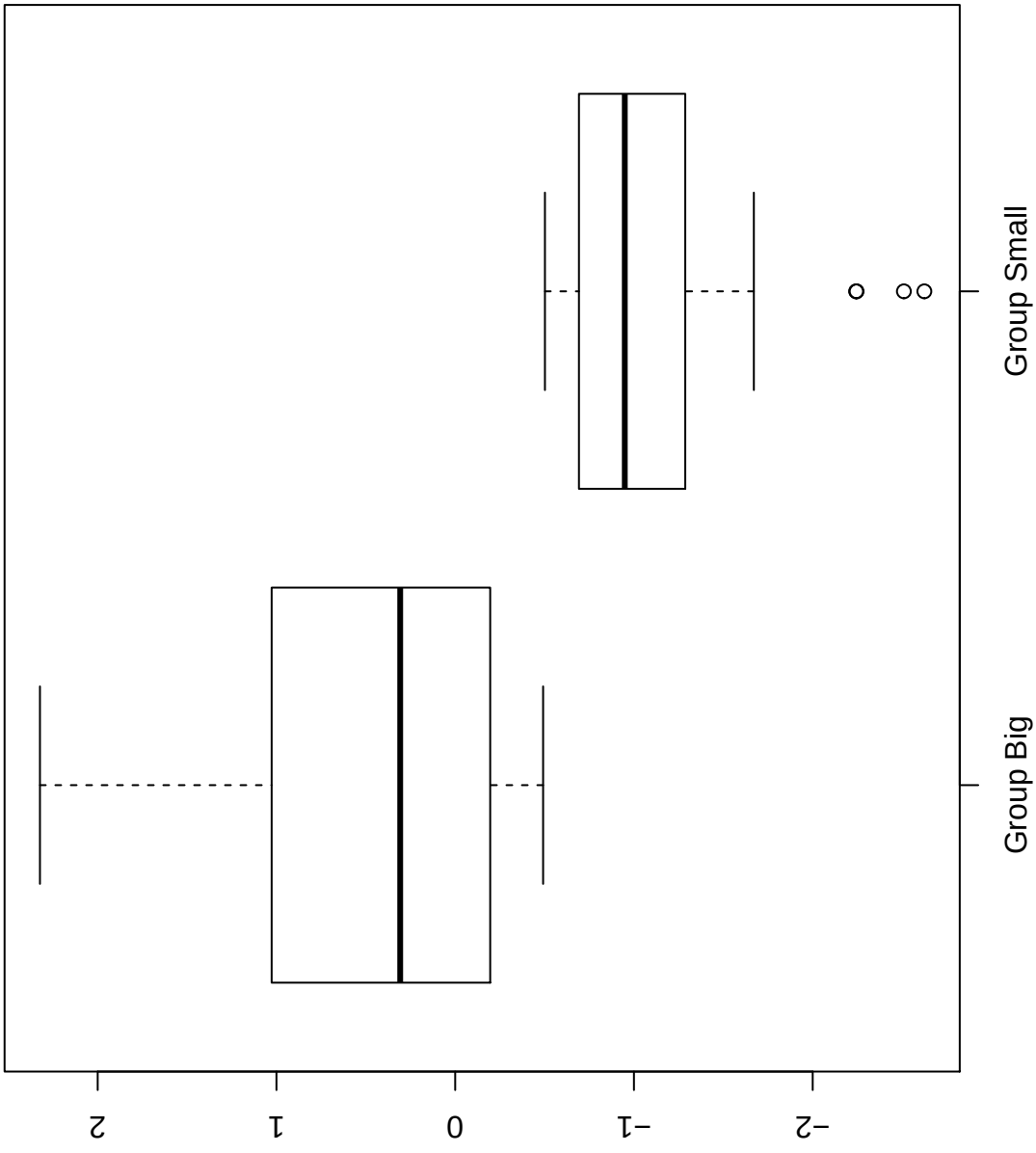

Figure 2: Second figure in landscape format.