

# An Example LaTeX Article with RMarkdown

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### Abstract

Here is an example of a knit-able article class LaTeX document.

## 1 The Graph

I gathered data from (Pemstein, Meserve, and Melton 2010) on countries' democracy level. They call their democracy measure the Unified Democracy Score (UDS). I also gathered data from the (World Bank 2013) on fertilizer consumption.<sup>1</sup> Figure 1 shows the mean UDS scores over time for all of the countries in their sample plotted against the natural logarithm of their fertilizer consumption.

## 2 Appendix

This document was created using the R version 3.5.2 and the R package *rmarkdown* (Allaire et al. 2018). It also relied on the R packages *ggplot2* (Wickham et al. 2018) and *rio* (Chan and Leeper 2018). The document can be completely reproduced from source files available on GitHub at: <https://github.com/christophergandrud/rep-res-book-v3-examples>.

The R session info is:

- R version 3.5.2 (2018-12-20), x86\_64-apple-darwin15.6.0
- Locale: en\_US.UTF-8/en\_US.UTF-8/en\_US.UTF-8/C/en\_US.UTF-8/en\_US.UTF-8
- Running under: macOS Mojave 10.14.2
- Matrix products: default
- BLAS: /Library/Frameworks/R.framework/Versions/3.5/Resources/lib/libRblas.0.dylib
- LAPACK: /Library/Frameworks/R.framework/Versions/3.5/Resources/lib/libRlapack.dylib
- Base packages: base, datasets, graphics, grDevices, methods, stats, utils
- Other packages: ggplot2 3.1.0, rio 0.5.16
- Loaded via a namespace (and not attached): assertthat 0.2.0, bindr 0.1.1, bindrcpp 0.2.2, bookdown 0.9, cellranger 1.1.0, colorspace 1.3-2, compiler 3.5.2, crayon 1.3.4, curl 3.2, data.table 1.11.8, digest 0.6.18, dplyr 0.7.8, evaluate 0.12, forcats 0.3.0, foreign 0.8-71, glue 1.3.0, grid 3.5.2, gtable 0.2.0, haven 2.0.0, hms 0.4.2, htmltools 0.3.6, knitr 1.21, labeling 0.3, lazyeval 0.2.1, magrittr 1.5,

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<sup>1</sup>The data is in kilograms per hectare of arable land.

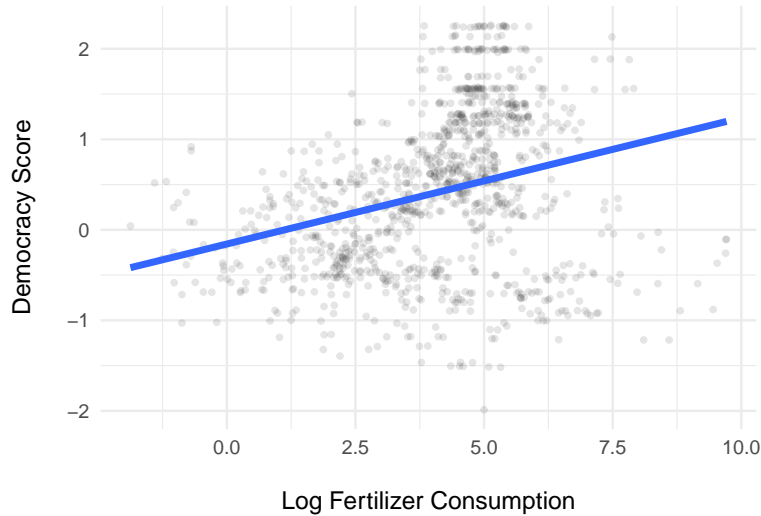


Figure 1: Mean UDS Scores vs. Fertilizer Consumption

munsell 0.5.0, openxlsx 4.1.0, pillar 1.3.1, pkgconfig 2.0.2, plyr 1.8.4, purrr 0.2.5, R6 2.3.0, Rcpp 1.0.0, readxl 1.2.0, rlang 0.3.0.1, rmarkdown 1.11, scales 1.0.0, stringi 1.2.4, stringr 1.3.1, tibble 1.4.2, tidyselect 0.2.5, tools 3.5.2, withr 2.1.2, xfun 0.4, yaml 2.2.0, zip 1.0.0

## References

Allaire, JJ, Yihui Xie, Jonathan McPherson, Javier Luraschi, Kevin Ushey, Aron Atkins, Hadley Wickham, Joe Cheng, Winston Chang, and Richard Iannone. 2018. *Rmarkdown: Dynamic Documents for R*. <https://CRAN.R-project.org/package=rmarkdown>.

Chan, Chung-hong, and Thomas J. Leeper. 2018. *Rio: A Swiss-Army Knife for Data I/O*. <https://CRAN.R-project.org/package=rio>.

Pemstein, Daniel, Stephen A. Meserve, and James Melton. 2010. “Democratic Compromise: A Latent Variable Analysis of Ten Measures of Regime Type.” *Political Analysis* 18 (4): 426–49.

Wickham, Hadley, Winston Chang, Lionel Henry, Thomas Lin Pedersen, Kohske Takahashi, Claus Wilke, and Kara Woo. 2018. *Ggplot2: Create Elegant Data Visualisations Using the Grammar of Graphics*. <https://CRAN.R-project.org/package=ggplot2>.

World Bank. 2013. “World Development Indicators.”