

World Happiness Report

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Abstract

The first question deals with Happiness. Will write more for final exam, this is just to test how it works. All of the write-ups will be subpar, as the purpose is first to get the hand of things.

Keywords: Multivariate GARCH, Kalman Filter, Copula

JEL classification L250, L100

1. Introduction

Looking at happiness reports for different regions based on their Average Life Expectancy, and comparing it specifically to South Africa.

I suggest renaming the top line after @article, as done in the template ref.bib file, to something more intuitive for you to remember. Do not change the rest of the code. Also, be mindful of the fact that bib references from google scholar may at times be incorrect. Reference Latex forums for correct bibtex notation.

Data

Data corresponds to that given in the Mock Practical

To make your graphs look extra nice in latex world, you could use Tikz device. Replace dev - 'png' with 'tikz' in the chunk below. Notice this makes the build time longer and produces extra tex files - so if you are comfortable with this, set your device to Tikz and try it out:

To reference the plot above, add a “\label” after the caption in the chunk heading, as done above. Then reference the plot as such: As can be seen, Figures ?? and ?? are excellent, with Figure ??

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being particularly aesthetically pleasing due to its device setting of Tikz. The nice thing now is that it correctly numbers all your figures (and sections or tables) and will update if it moves. The links are also dynamic.

I very strongly suggest using `ggplot2` (ideally in combination with `dplyr`) using the `ggtheme` package to change the themes of your figures.

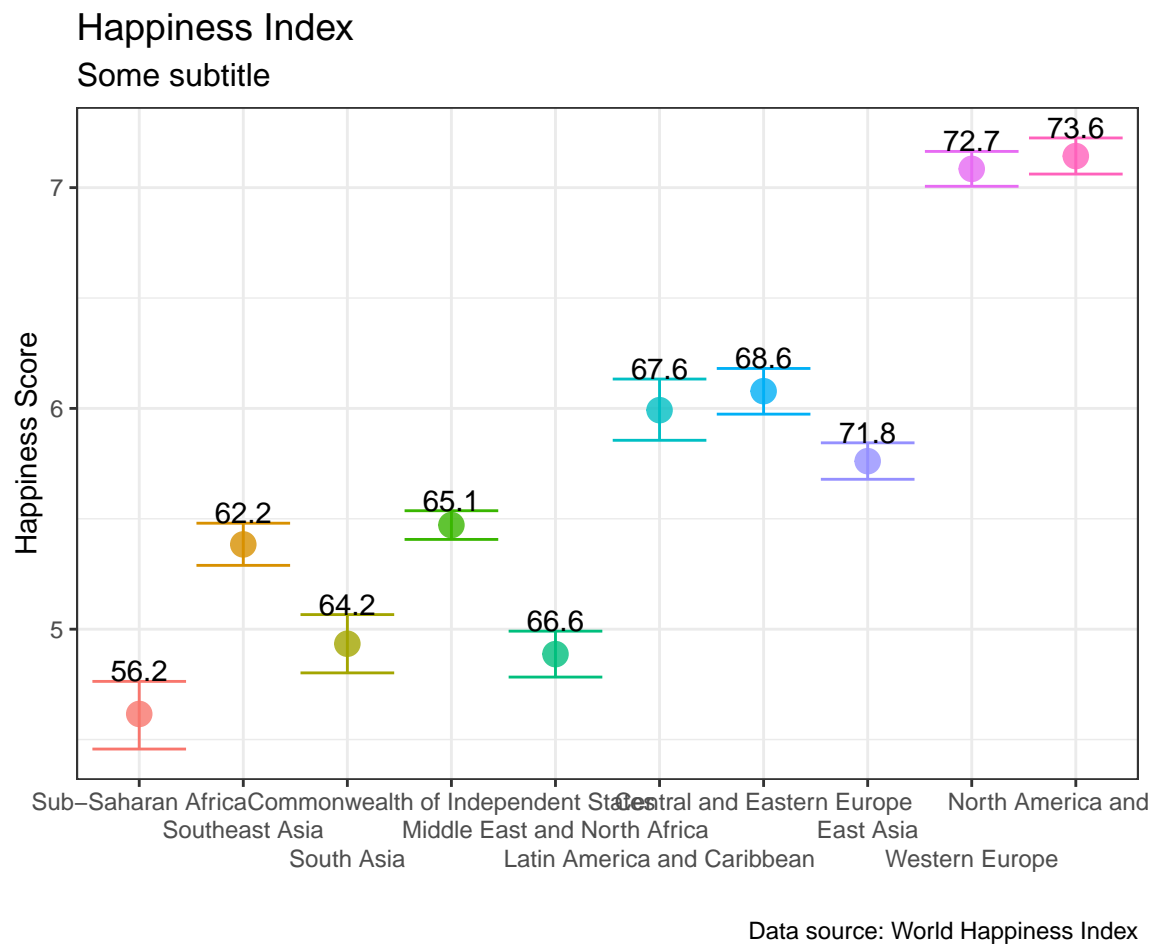
Also note the information that I have placed above the chunks in the code chunks for the figures. You can edit any of these easily - visit the Rmarkdown webpage for more information.

2. Splitting a page

You can also very easily split a page using built-in Pandoc formatting. I comment this out in the code (as this has caused issues building the pdf for some users - which I presume to be a Pandoc issue), but you are welcome to try it out yourself by commenting out the following section in your Rmd file.

3. Results

Tables can be included as follows. Use the *xtable* (or *kable*) package for tables. Table placement = H implies Latex tries to place the table Here, and not on a new page (there are, however, very many ways to skin this cat. Luckily there are many forums online!).



This shows that America seems to be the happiest region, whereas Sub-Saharan Africa is the least.

3.1. *Huxtable*

Huxtable is a very nice package for making working with tables between Rmarkdown and Tex easier.

This cost some adjustment to the Tex templates to make it work, but it now works nicely.

See documentation for this package [here](#). A particularly nice addition of this package is for making the printing of regression results a joy (see [here](#)). Here follows an example:

If you are eager to use huxtable, comment out the Huxtable table in the Rmd template, and uncomment the colortbl package in your Rmd's root.

Note that I do not include this in the ordinary template, as some latex users have complained it breaks

when they build their Rmds (especially those using tidytex - I don't have this problem as I have the full Miktex installed on mine). Up to you, but I strongly recommend installing the package manually and using huxtable. To make this work, uncomment the *Adding additional latex packages* part in yaml at the top of the Rmd file. Then comment out the huxtable example in the template below this line. Reknit, and enjoy.

FYI - R also recently introduced the gt package, which is worthwhile exploring too.

4. Lists

To add lists, simply using the following notation

- This is really simple
 - Just note the spaces here - writing in R you have to sometimes be pedantic about spaces...
- Note that Rmarkdown notation removes the pain of defining L^AT_EX environments!

5. Conclusion

I hope you find this template useful. Remember, stackoverflow is your friend - use it to find answers to questions. Feel free to write me a mail if you have any questions regarding the use of this package. To cite this package, simply type citation("Texevier") in Rstudio to get the citation for Katzke (2017) (Note that uncited references in your bibtex file will not be included in References).

just in case

Katzke, N.F. 2017. *Texevier: Package to create elsevier templates for rmarkdown*. Stellenbosch, South Africa: Bureau for Economic Research.