A Sample R Markdown Template

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Abstract

The objective of this document's template is to demonstrate some basics of the combination of R and markdown and how they can be knitted together using the knitr package (via the RStudio IDE) to produce beautiful docs/reports.

Contents

The options mentioned in the header of this Rmarkdown file (with extensions of .Rmd) above for a pdf document can be modified as well as supplemented by options for other document formats.(Please see the "Output Options" section of RStudio's reference site at http://rmarkdown.rstudio.com/ for more information.) **Did you notice that this thing was in bold and that the previous thing was a web link?**

1 Lists

1.1 Numbered list

Material for this document has been heavily borrowed from several documents.(Notice how a numbered list is being created below.)

1. Markdown cheatsheet at http://warpedvisions.org/projects/markdown-cheat-sheet.md.
2. R markdown reference from R Studio's site at http://rmarkdown.rstudio.com/
3. http://rmarkdown.rstudio.com/authoring_basics.html

   - Item 3a
   - Item 3b

4. Source 4

1.2 Bulleted (unordered) list

As previously mentioned, the objectives of this document are two fold.

- Learn the basics of markdown
- Learn how R code and output can be interspersed with markdown to create reports/documents.
- Another one

   – Item 3a
   – Item 3b

- And yet another one

2 How can headers be defined?

The header used above can be created using a different approach, using a single *hashtag* (wasn't that in *italics*?) to the left of the title of the header.

3 Header 1

3.1 Header 2

3.1.1 Header 3 ### (Hashes on right are optional and that means you can drop them unless you have all the time in the world)

3.1.1.1 Header 4

3.1.1.1.1 Header 5

4 Images

You can insert images in the document as well. For instance, if you have an image of a real apple in your working directory, then you can insert it in the document in the following manner.

If you wanted to show an images from a website, then that can also be done.

Figure 1: This is a picture of a honey crisp apple

Figure 2: This is the image of the R-Project from www.r-project.org

5 Tables

Header	Header	Right
Cell	Cell	$10
Cell	Cell	$20

- Outer pipes on tables are optional (if you are not concerned with aesthetics, just drop)
- Colon used for alignment (right versus left)

6 HTML Tags

You can use html tags as well in markdown documents. For example, you could've used an `<img>` tag to insert images. More on basics of html can be found

7 Equation

Standard deviation: $s = \sqrt{\frac{1}{N-1} \sum_{i=1}^{N} (x_i - \overline{x})^2}$.

8 Blockquotes

A friend once said:

> It's always better to give than to receive.

9 Manual Line Breaks

End a line with two or more spaces

For
example, this
line looks insanely
chopped.

10 Miscellaneous

superscript^2

strikethrough