ADS2 Problem Set 12: Notes

MI Stefan

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Examining an R markdown file

How did you get on with this? Reading unfamiliar syntax is not always easy, but it is good practice.

A simple data analysis procedure

There are of course different ways to do this. Look at the file mouse_report.Rmd for an example of how I did it. Note that R markdown is a powerful tool for creating documents like that: Overviews with text explanations and data visualisation that can easily be updated if the data set changes. This is especially useful in situations where you have to periodically report on an ongoing experiment or measurement, or for planning out data analysis on a project before data collection is complete.

Fun with maths

Were you able to do it? Of course, you can see the correct answers in the R markdown file we provided for the problem set.

If you find this interesting, there are a lot of other things that can be done with LaTeX - including using it as a text processing system outside of R Markdown. It is especially powerful for long, complicated documents (such as dissertations), because it is very good at handling sections, references, tables of contents, figures etc. Many journals have LaTeX style files that allow you to format articles in exactly the right way for this particular journal. There are also special LaTeX templates for things like CVs, or for presentations (for instance, some of your lecture slides have been generated using LaTeX). This course is not going to go deeper into it, but if you are interested, here is a good place to start: https://www.latex-project.org/