Environmental Informatics

ryan

February 4, 2020

Contents

1 Link to PDF

This is incomplete because of the conversion, Refer to:

- the PDF Version for Clarity sake
- or alternatively the DocX

2 Get Working

Either get the working out of the scripts and transcribe into org-mode.

OR

Clean them up and make them into R Scripts/RMD documents in vim and then add them to:

- MD Notes
- Link them to this `Org` file
- put the ***R**-Markdown* / scripts in the DataSci Project
  - I want to have a git repo with clean exemplar code in it and I want it to be a project, when I start a unit or a semester I want to add the exemplar code as a submodule so I have something to work off, questions I need to consider are:
    * How will I tag things?
      · Probably `#tags`
    * How will I search tags

        - Can I use my old `#tag` script?
    - How will i integrate this with theory notes from `Org` and `MD`?
    - How will I search Documents
        - Probably `FZF` and `RG`
    - When do i want to use RMD and when do I want to use MD?
- This will be clearer once I:
    1. remove duplicate notable notes
    2. Import TSA Scripts and RMD files

3 (1) - Exercises

Week 1 | Material Due: 17 July 2017

3.1 Regulations relating to Environmental Hypotheses Testing

Things that require measurement's, ostensibly by law, would include fish populations, ocean acidity, $CO\eta_2$ levels, temperature, rainfall etc.ss

Finding which legislative instrument provides for this is difficult, a cursory glance through *Westlaw, LexisNexis, Google* and *Austlii* does not provide anything obvious.

3.2 Summary of Temperature Data

A table of data with rows as observations and columns as variables is a data frame.

3.2.1 First few Lines

3.2.2 Structure of the Data Set

3.2.3 Summary of the Data Frame

3.2.4 Correlation of Minimum and Maximum Temperature

The value provided by the cor function is the default *Pearson* method[1] ăwhich is a *linear correlation coefficient such that:*[2]

[1] Rdocumentation.org. (2017).ă/cor function | R Documentation/. [online] Available at: `https://www.rdocumentation.org/packages/stats/versions/3.4.1/topics/cor` [Accessed 21 Jul. 2017].

[2] Roberts, D. (2017).ă/Statistics 2 - Correlation Coefficient and Coefficient of Determination/. [online] Mathbits.com. Available at: `https://mathbits.com/MathBits/`