Can R Notebooks help with reproducibility?

Introduction

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What
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reproducibility?

In science it's by some considered to be the holy grail of statistics. Basically it means doing an experiment or research multiple times by different people or groups, with the same numbers and get the same result.

Challenges

One of the big challenges of (statistical?/Data?) science has been to reproduce the identical results from an earlier research. In a significant amount of research it has proved hard or flat out impossible to reproduce the results from other peoples and older research

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Computable Documents

In more modern times a new idea around this have been brought up: computable documents. The idea behind this is when publishing a research paper, one submits the data, equations and calculations together with a document that's computable. That way, when other re-searches

Short literature review

According to McNutt (2014) advancing in science is reliant on discoveries that can be trusted, but stated that studies that have been performed, can't be reproduced. In tandum with this, Peng (2011) has brought up the idea that reproducibility should be a requirement for pub-

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Already in the early 1930's the accessability to the data for a research was aired by Frisch He stated that in statistical research, the raw data should be published (1933). Later in the 1960's it was deemed nearly impossible to reproduce research on economy with big mod

Kva starta "computable documents" med og kortid? Ka e gjort i forkant ang. R Notebook-programmer og reproduserbarhet? Ka seie forfattar X om Y? Ka seie Forfattar Z om Y? Litt "bakgrunn" for detta med "computable documents".

–> ca. 1 sida +/-

Discussion

Why is reproducibilty important? What are the issues surrounding it? What steps have been taken to improve the situation? What does scientist say about it?

Conclusion

Help? Yes, to a degree. Solve/Fix the problem? No, atleast not yet. Too many issues. Different systems, different OS, different software and packages. Theories and calculations can change over time. Packages being updated/outdated. R have "Session Info" to list systems, maybe a library of packages would help? It's seems to be a step in the right direction, but it still remains issues around reproducibility even with the help of computable documents like R Notebook.

References