RStudio

Dynamic Documents

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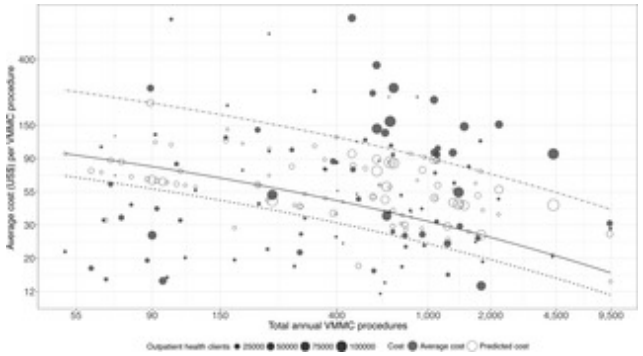
Biosketch

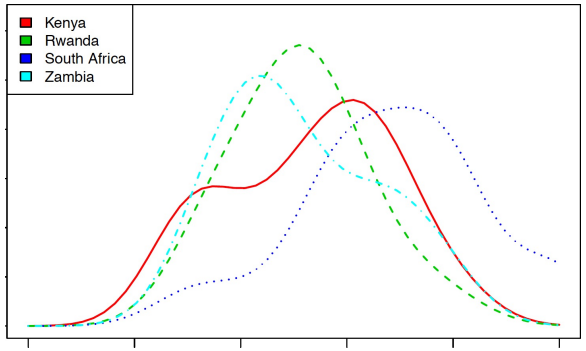
- Gina La Hera Fuentes is a Medical Doctor with a Master in Biostatistics and currently a PhD Candidate in Health Economics at the University of Newcastle.
- She received her MD and her PHS degrees from the University of San Andrés - Bolivia, and her MSc Biostatistics from the INSP - Mexico.
- She has working experience in research, implementation science, public health policy, project management, data analysis and human resources training in areas of HIV/AIDS, Non-Communicable Diseases and risk factors.
- In 2014 she started working at the department of Economics of the Centre for Health Systems Research - National Institute of Public Health – INSP - Mexico and participating in research of Costing analysis, Economic evaluation of projects from multiple countries (Mexico, Brazil, Kenya, Rwanda, Nigeria, Zambia, South Africa and Malawi).
- Since 2019, to date, she has worked with the University of Newcastle-Australia on a smoking cessation project for Aboriginal population and with the Rural Clinical School from the University of New South Wales as a Senior Lecturer and Research Coordinator.

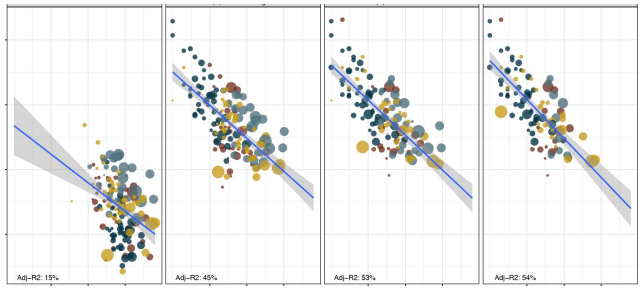
What are they?

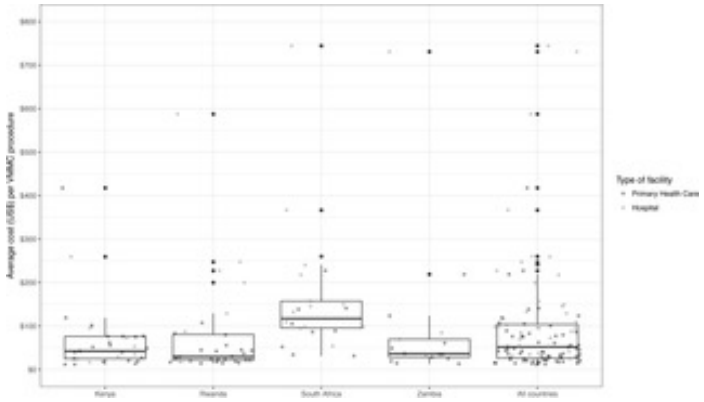
*Figure from: https://schedulewise.com/patient-schedule-living-document/

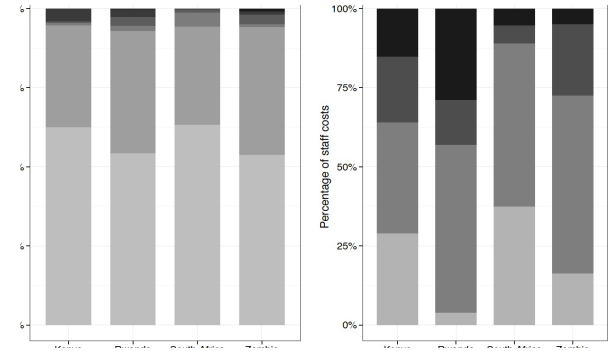
Advantages











- Open Source
- Flexible
- Comparable to other software, often better
- Excellent user community
- Exciting new packages and applications
- Attractive graphics

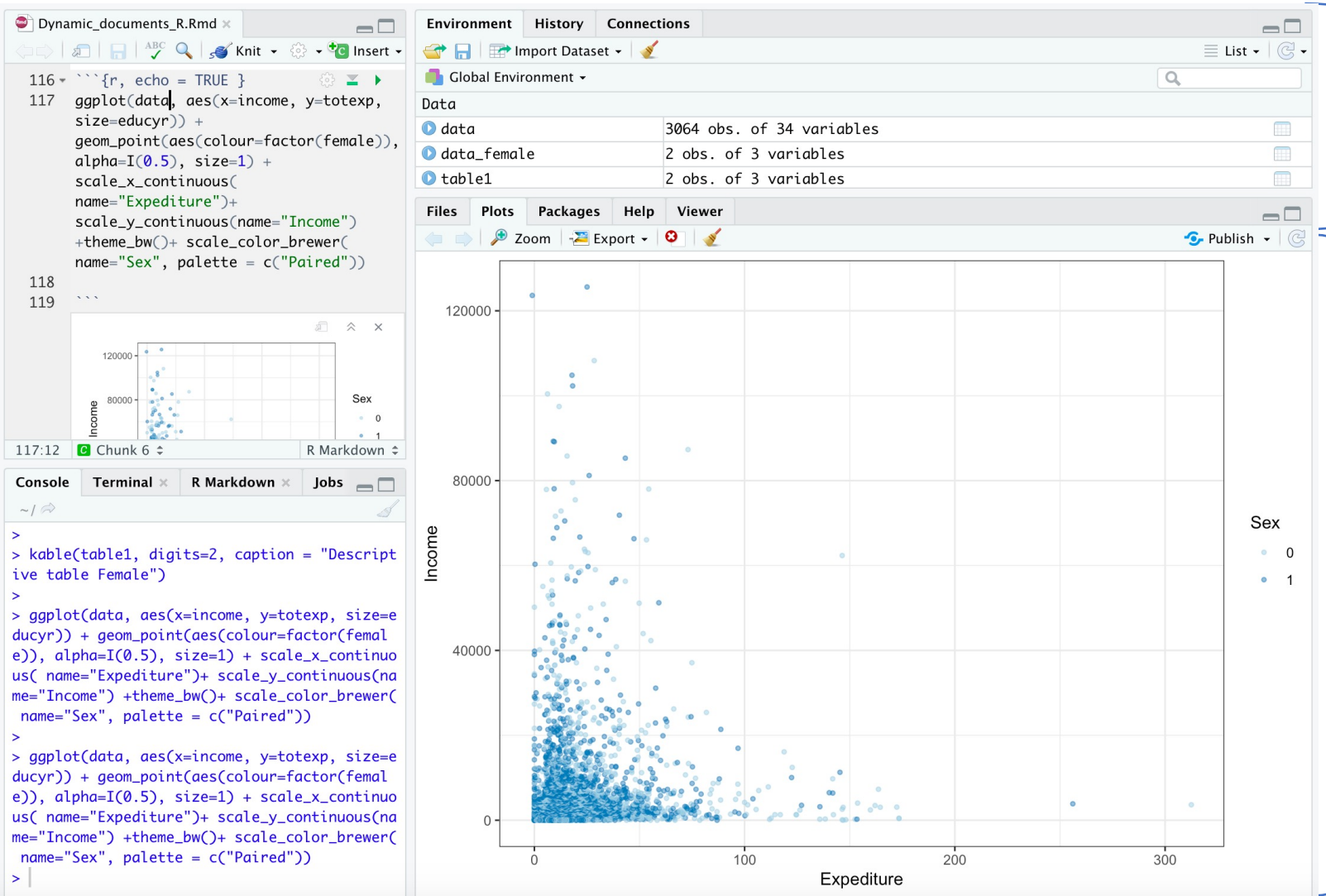
Environment

Rscripts = entries (R's "DO file")

Console= exits

"global enviornment" = elements of data

Files, diagrams, help files



How to start?

1. Open a document and add title and format of output
2. Write all the information to be codified and to generate figures and tables between ``` and ``` in ‘chunks’
3. Specify how you want to display the information in {} after ```
4. All the lines included after the chunk will be displayed as text

Today's activity

Learning while doing!

- Open the Rmd file

References

- Crawley (2007). The R book. WileyPublishing, Sussex.
- Ihaka (nd). The R project: a brief history and thoughts about the future. Access: https://www.stat.auckland.ac.nz/~ihaka/downloads/Massey.pdf
- Matloff (2009). The art of R programming. Access: http://www.bagualu.net/wordpress/wp-content/uploads/2015/10/The_Art_of_R_Programming.pdf