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Analysing Survey Data in R FOAR705 Proof of Concept presentation

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My Research Topic

During my MRes course, I plan to research the influence of Korean Pop (Kpop) within Japan.

You can find advertisements for Kpop all around Tokyo, but where is the research on this phenomenon?



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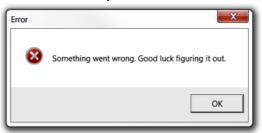
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Data Analysis in R

What happens if data is missing?
What happens if you need to look at a specific section of the data you have collected?



You might end up wasting a lot of valuable time trying to solve these problems.

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Scoping Selection

Initially, I had several areas where using a digital tool could improve the flow and pace of my work.

- Compiling sources for literature research
- Analysis of survey data
- Transcription and Translation of Interviews
- Writing and formatting my final Thesis

Out of these four areas, I considered survey data analysis to be the most time-consuming, so I decided to work on saving time here through implementing a digital tool. My Research Topic Data Analysis

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Conclusion Final Words In order to choose the correct tool to use, I had to refine my input and output sources. These went through many iterations, but eventually ended up like this:

- Input: Raw data collected from an online survey site that is capable of producing both qualitative and quantitative data and presenting it in a CSV format.
- Output: A dataset that can receive queries for specific subsets, answer these queries and plot the results in a graphical format.

Due to my choice of input and output, I was able to pick R as my intended tool-of-choice.

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To begin with, I needed to prove that R could take a basic .csv input and create my desired output. To do this, I created my own small table of data, before loading it into the R environment and constructing a plot.

This tool chain was a success, so I was then able to continue onto using more complex data, in a similar style to what I intended on using in my final thesis.

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Now I knew that my tool chain worked with simple data, created a more complicated chain.

Google Forms survey (real-world data collection)

- $\, \rightarrow \,$ Data analysis in R
- \rightarrow Graph imported into a Word document

The survey was completed by my FOAR705 class. With this new data I created a tabular database that could answer all the questions I asked.

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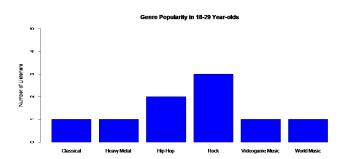
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Results Pros:

- -General growth of my technical skillset
- -Success in using R to create simple tool chains
- -Increased knowledge of technical tools available for implementation in a range of tasks $\,$



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Results

- -R support online is often outdated for the current version (code changes)
- -Time is still currently an issue in terms of utilising this tool however, I would say that if R is implemented properly, there will likely be fewer problems concerning data breaking under manipulation.

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Conclusion

My implementation of R as a tool for data analysis has been successful.

I am now able to ask questions of R, and receive graphical responses with ease.

This success means that I can replicate the same process shown here with my thesis data with minimal difficulty.

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If you would like to have a look at my code and the collected data used in this project, please follow the link below:

https://github.com/Kattkin/FOAR705-Coding-line