

Data Science Concept Maps

a remixable collection of teaching resources

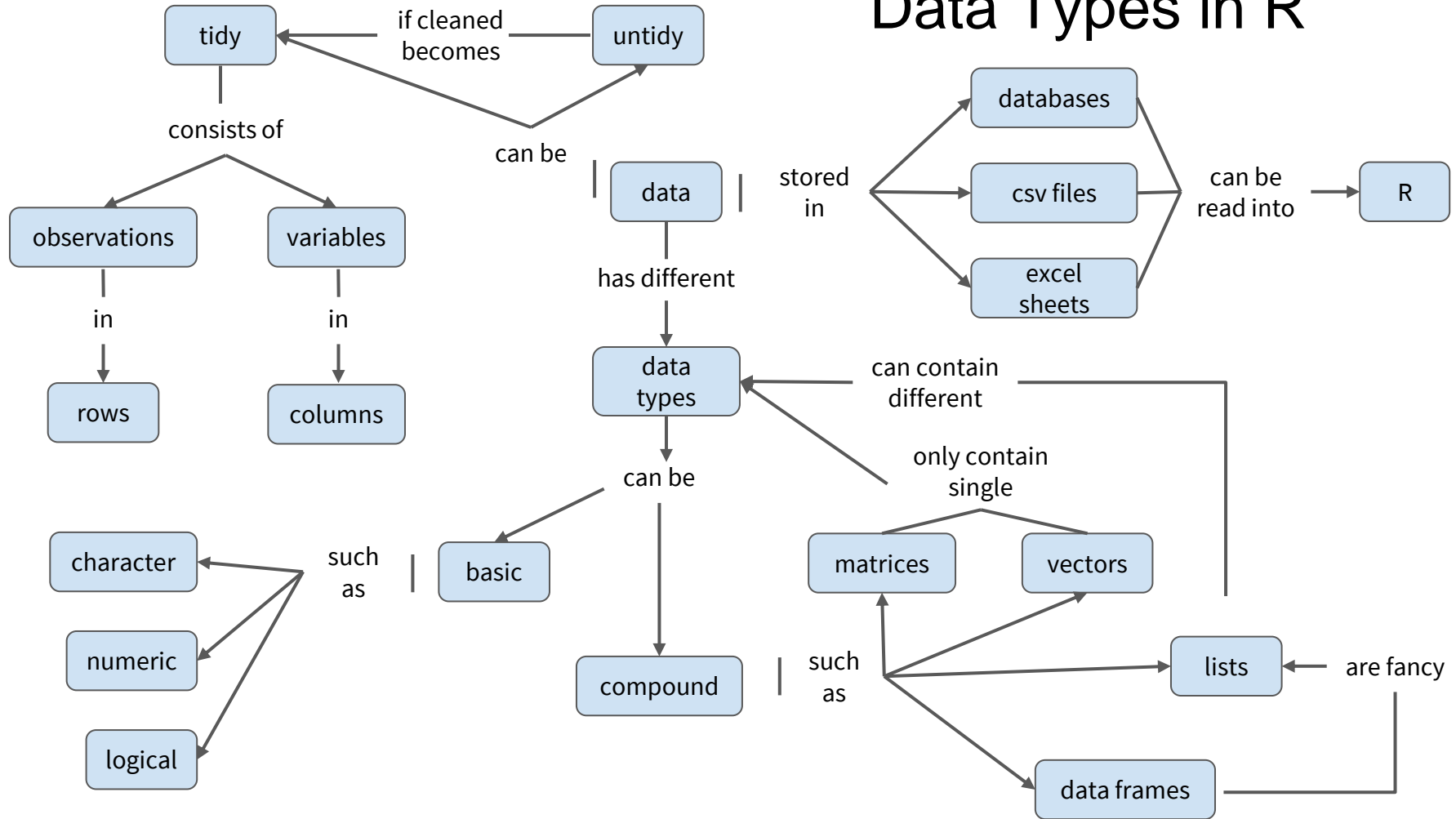


How To

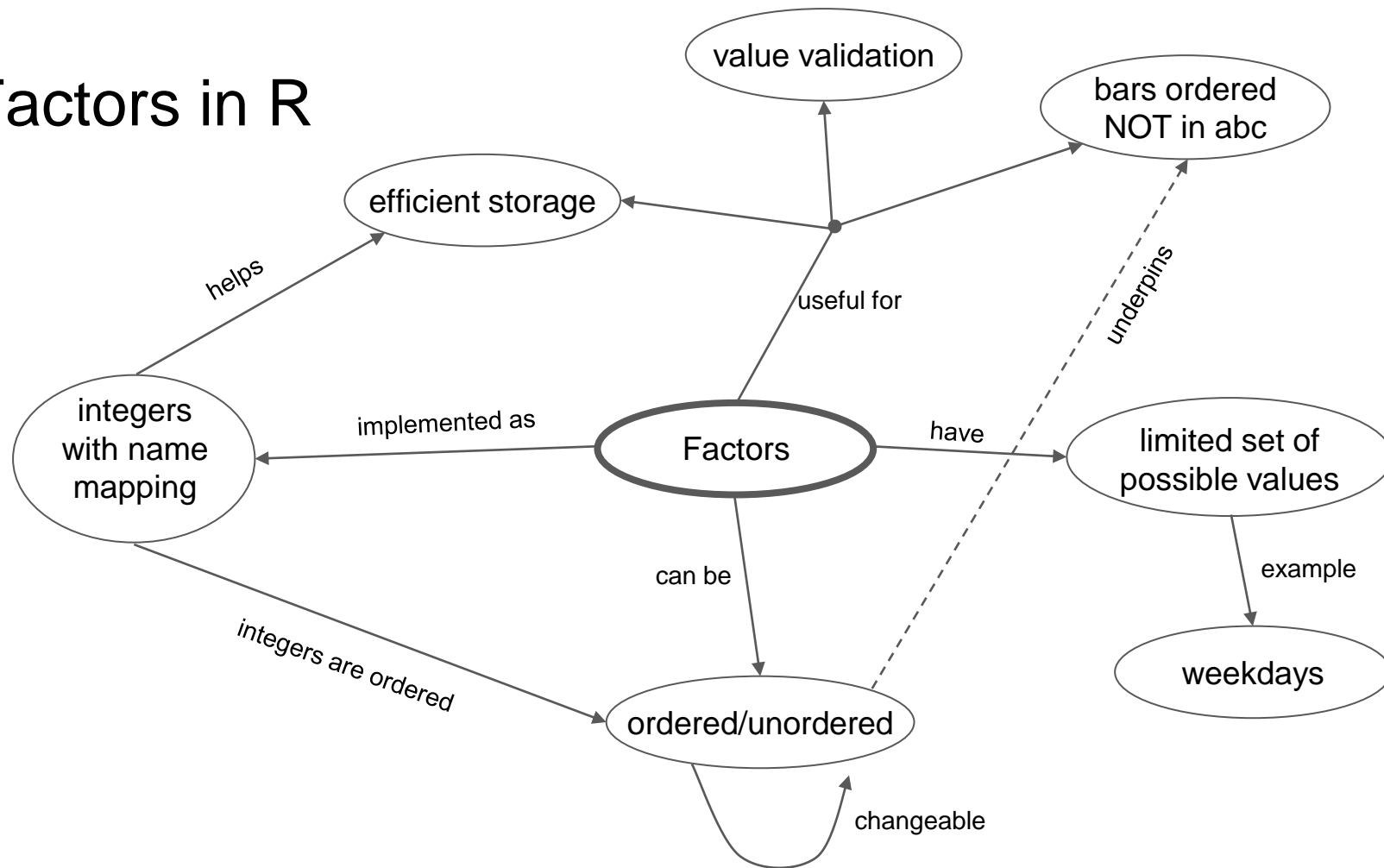
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- Add a slide with the topic as a title
- Use Google Slides' drawing tools rather than pasting in an image
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- If you are redrawing or modifying a concept map someone else has created, please add yourself in the speaker notes as well.

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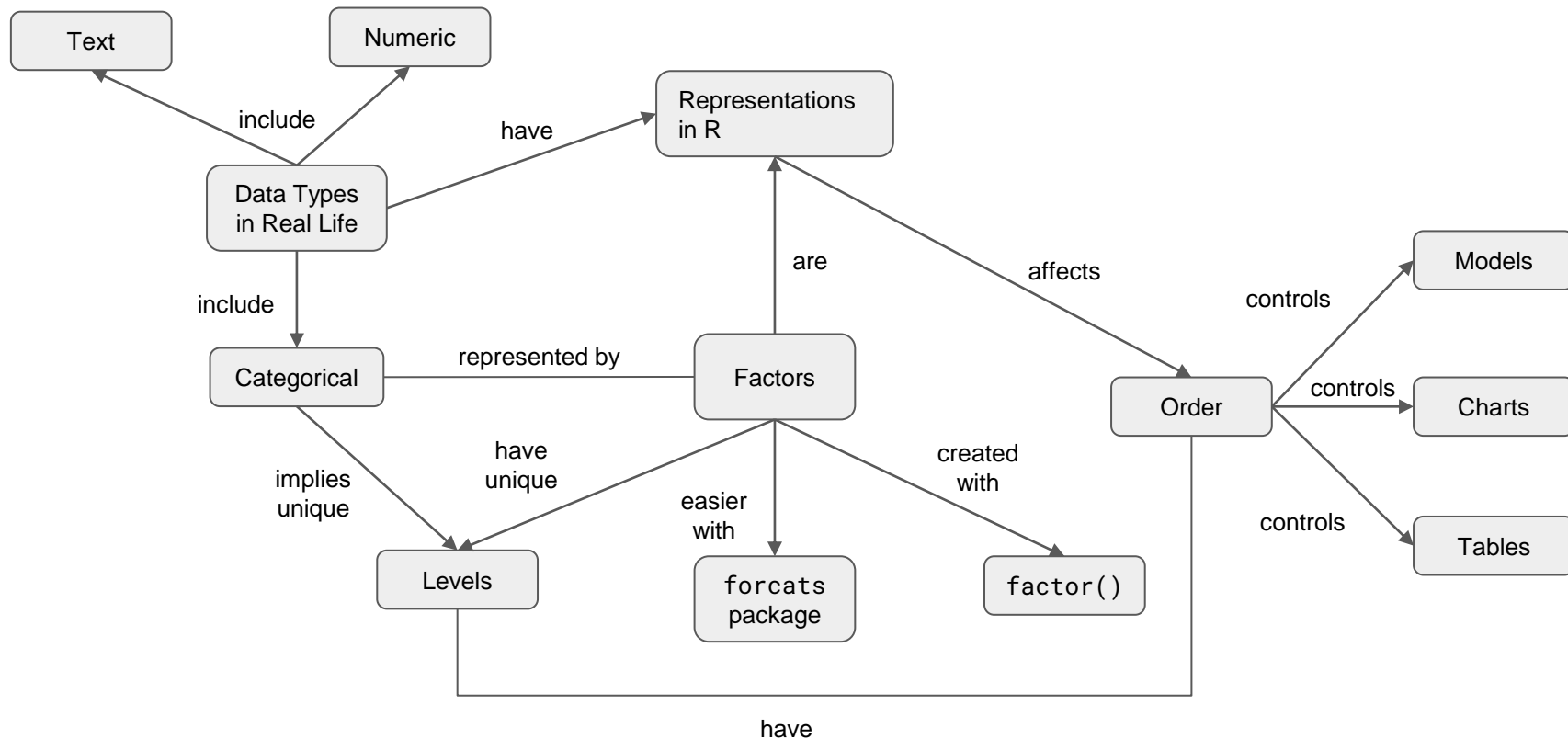
Data Types in R



Factors in R

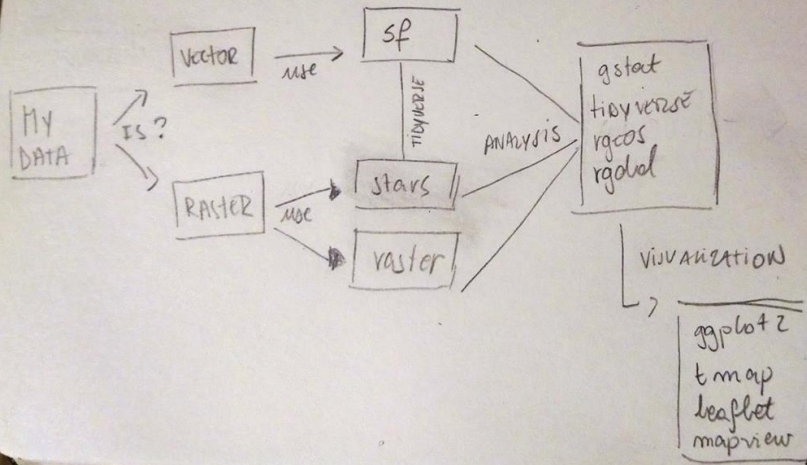


Factors in R

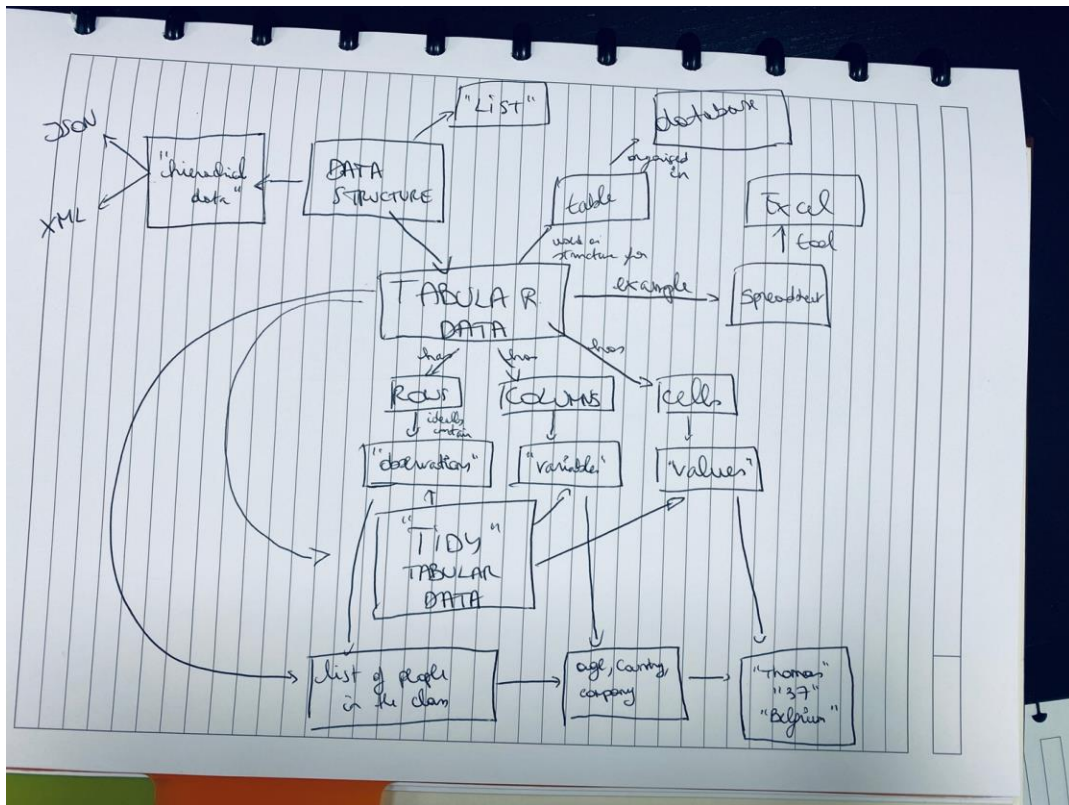


Spatial Data in R

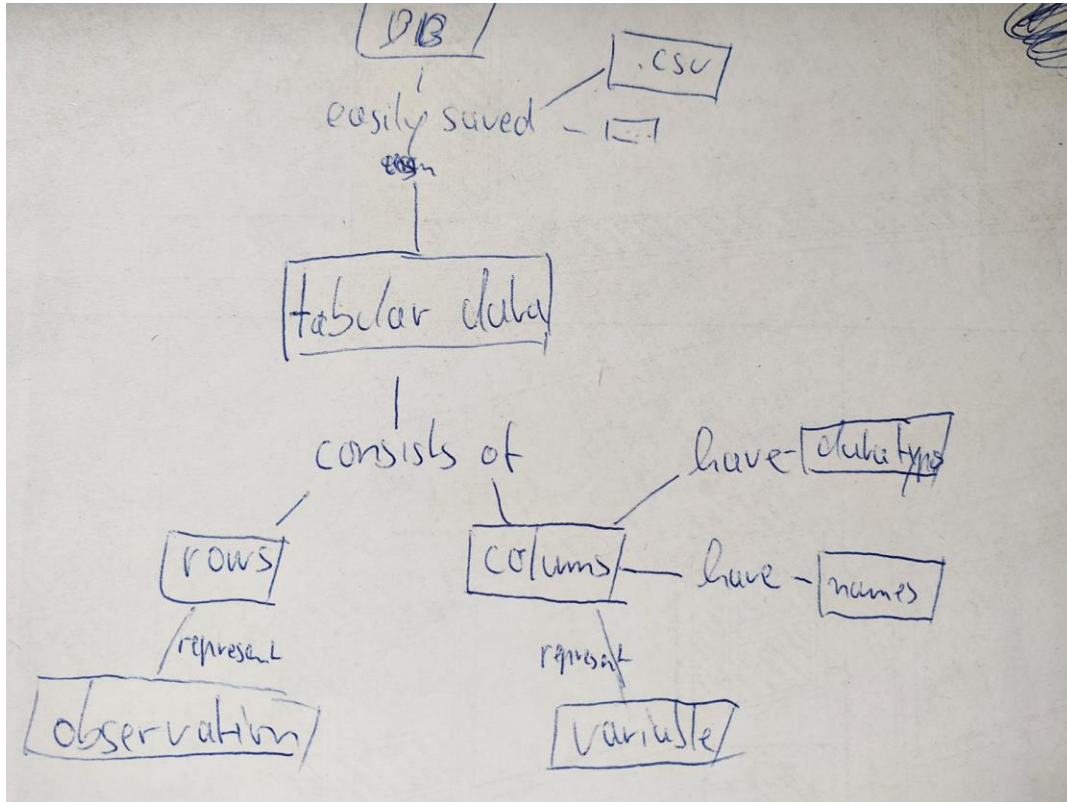
How to process spatial data in R



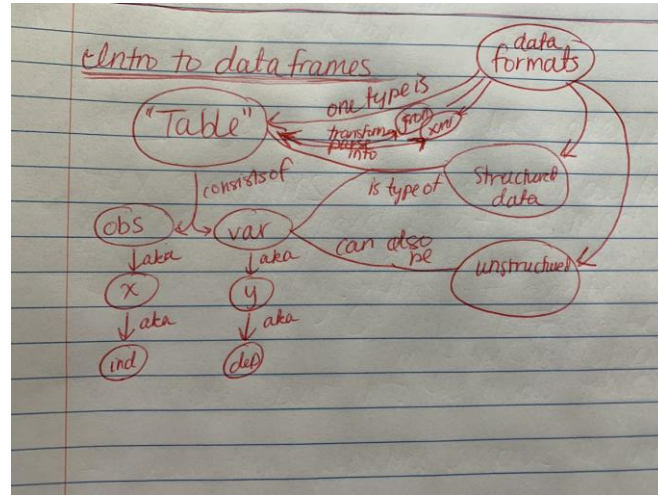
Tabular Data



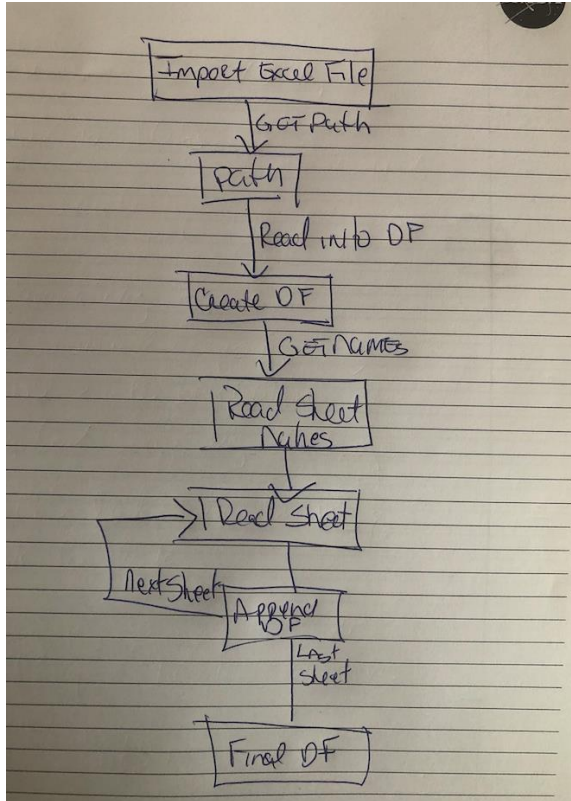
Tabular Data



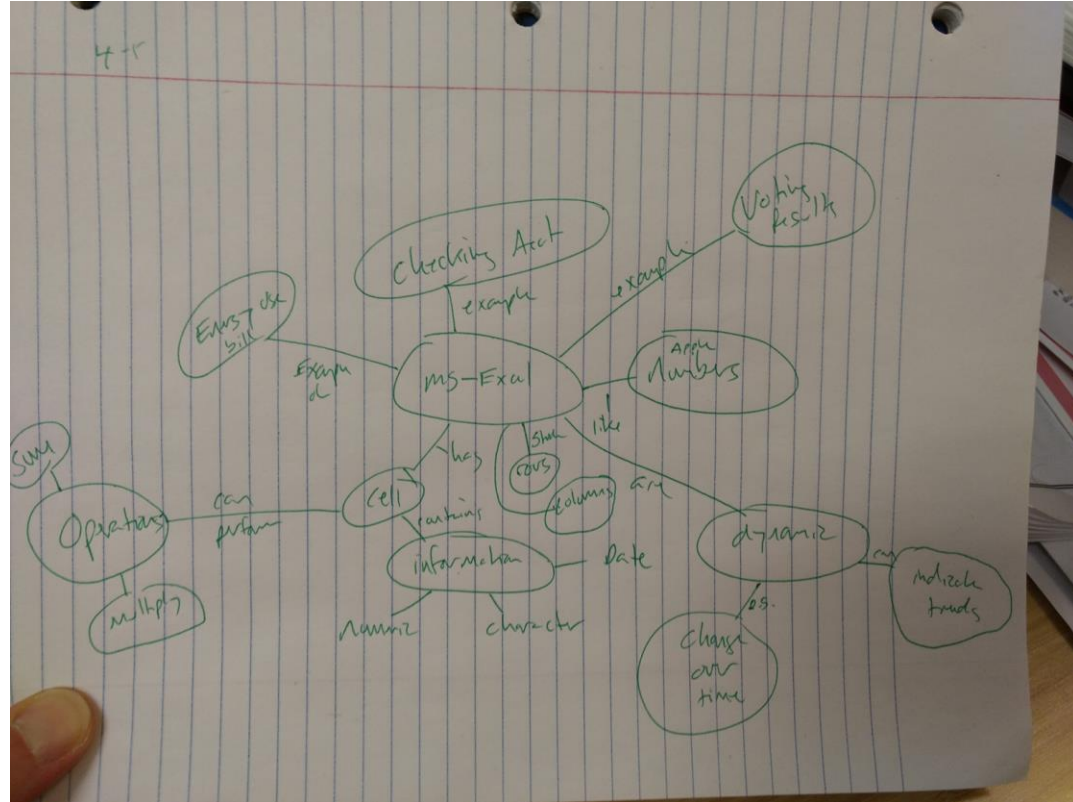
Data Frames



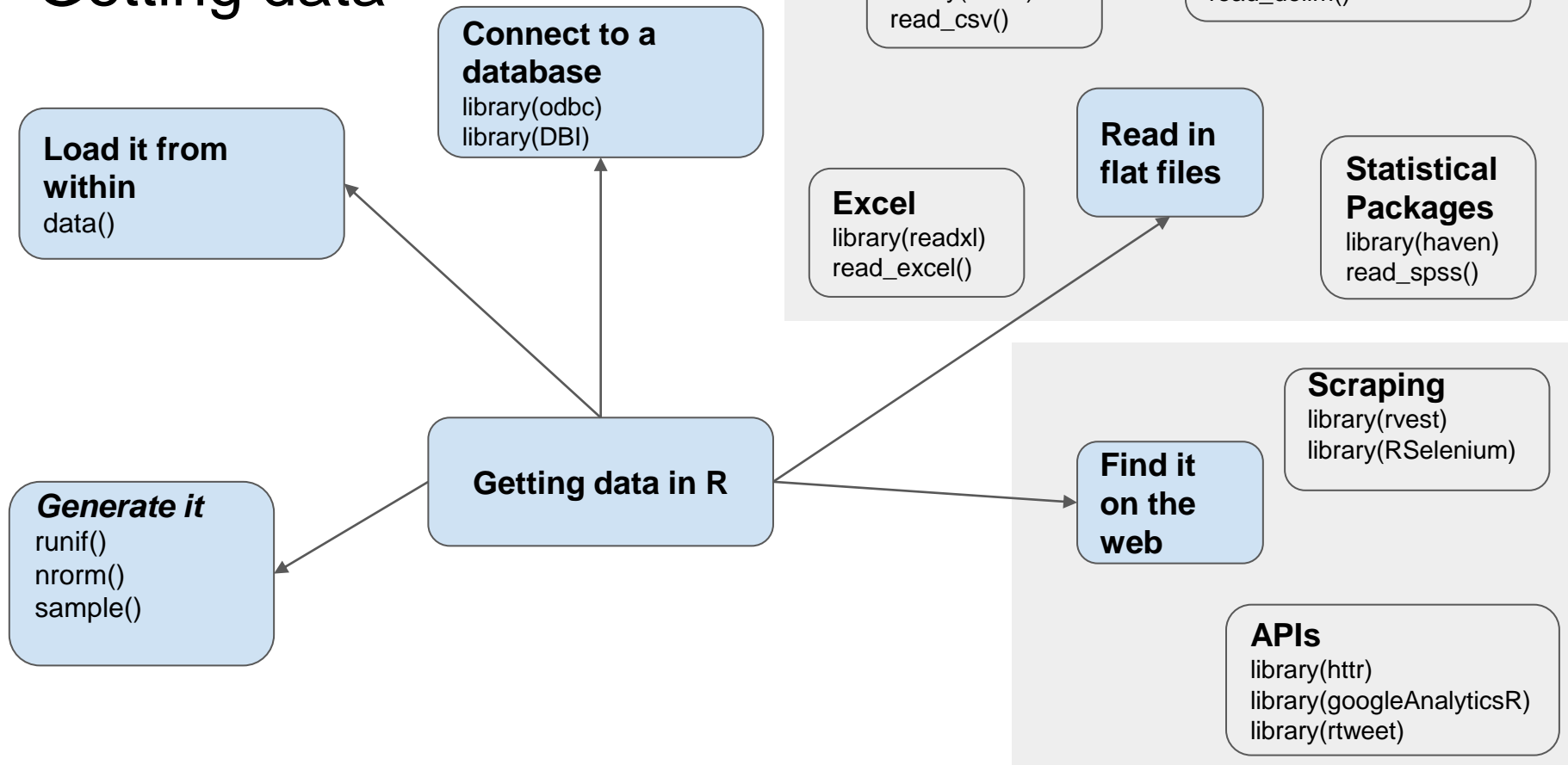
From Excel to a Data Frame



Excel

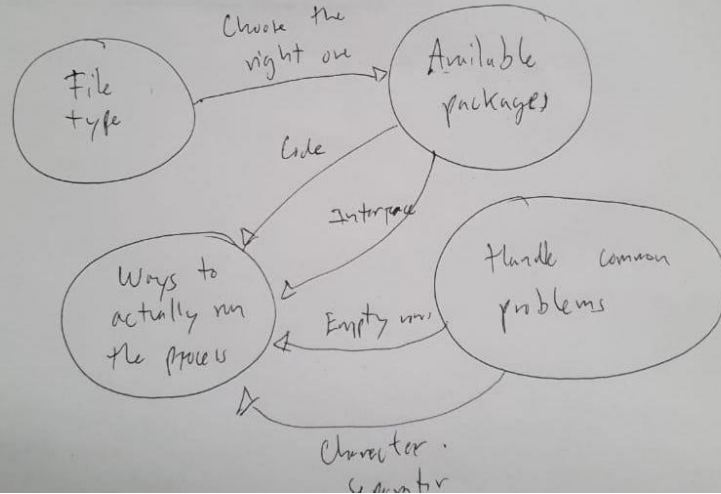


Getting data

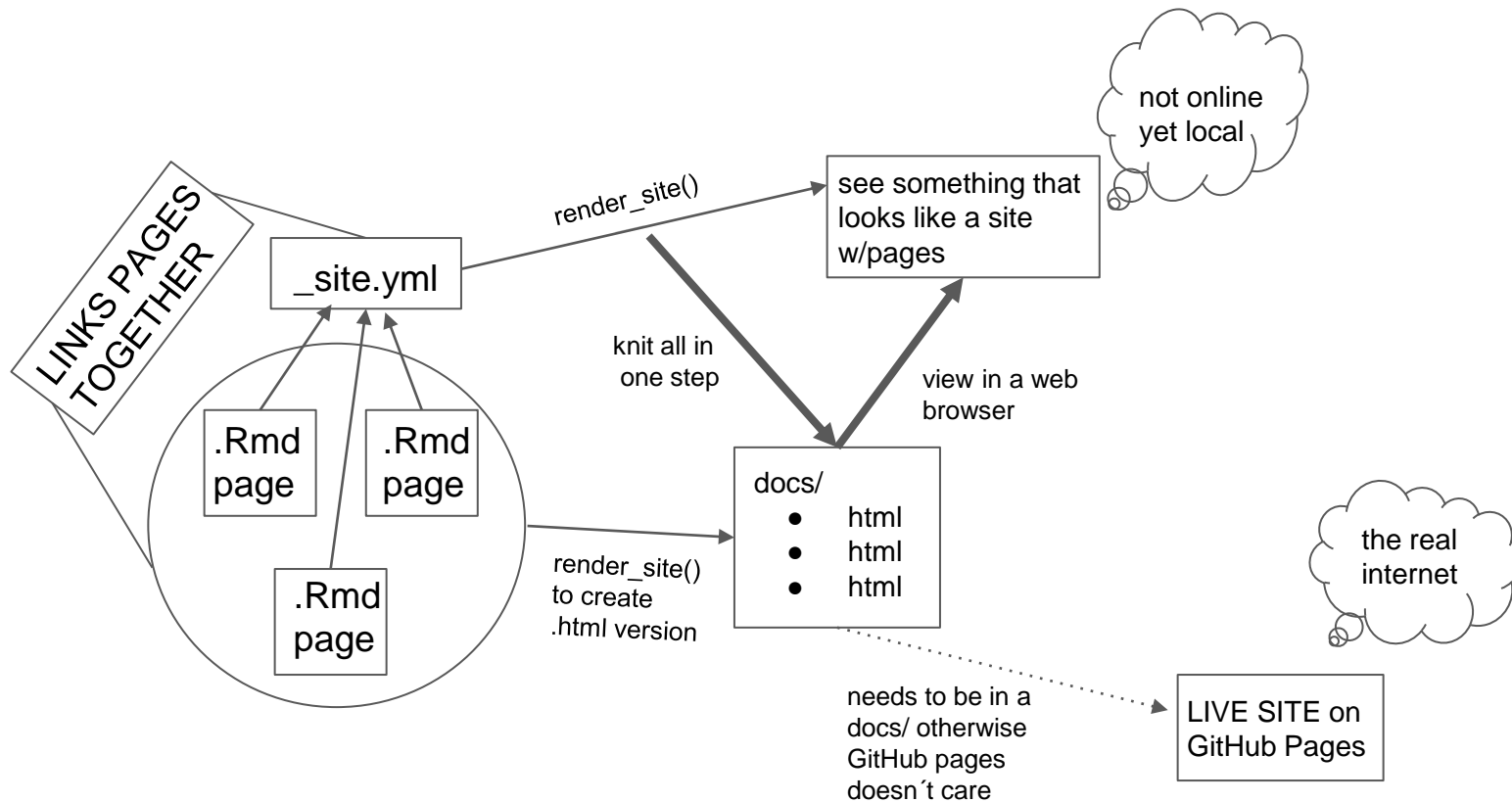


Importing Data

How to import data into R + RStudio:

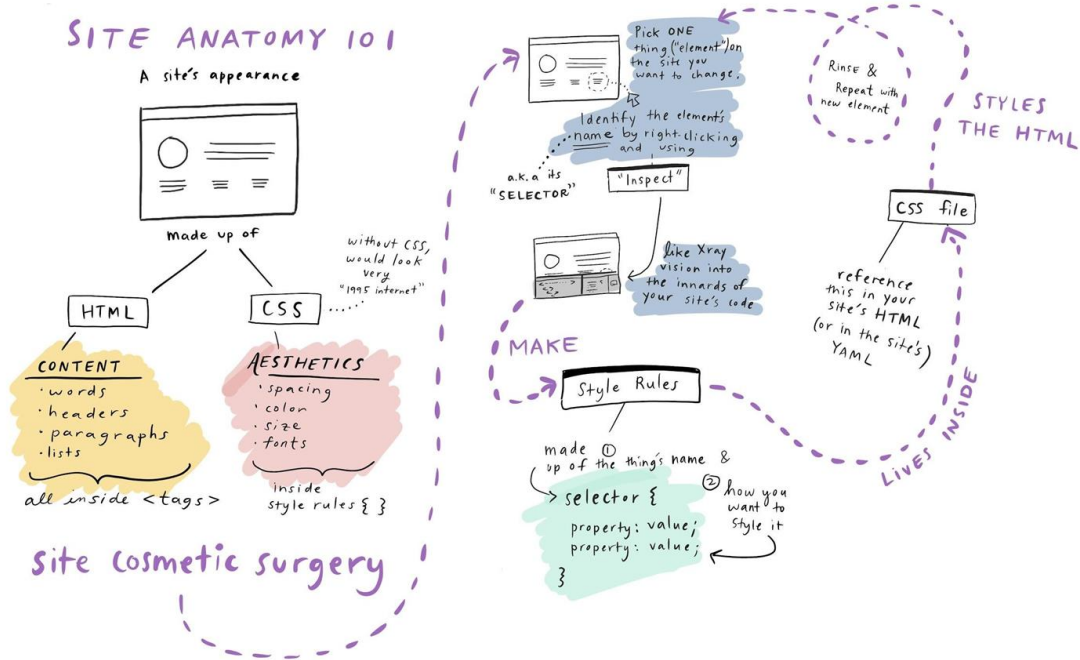


R Markdown Websites

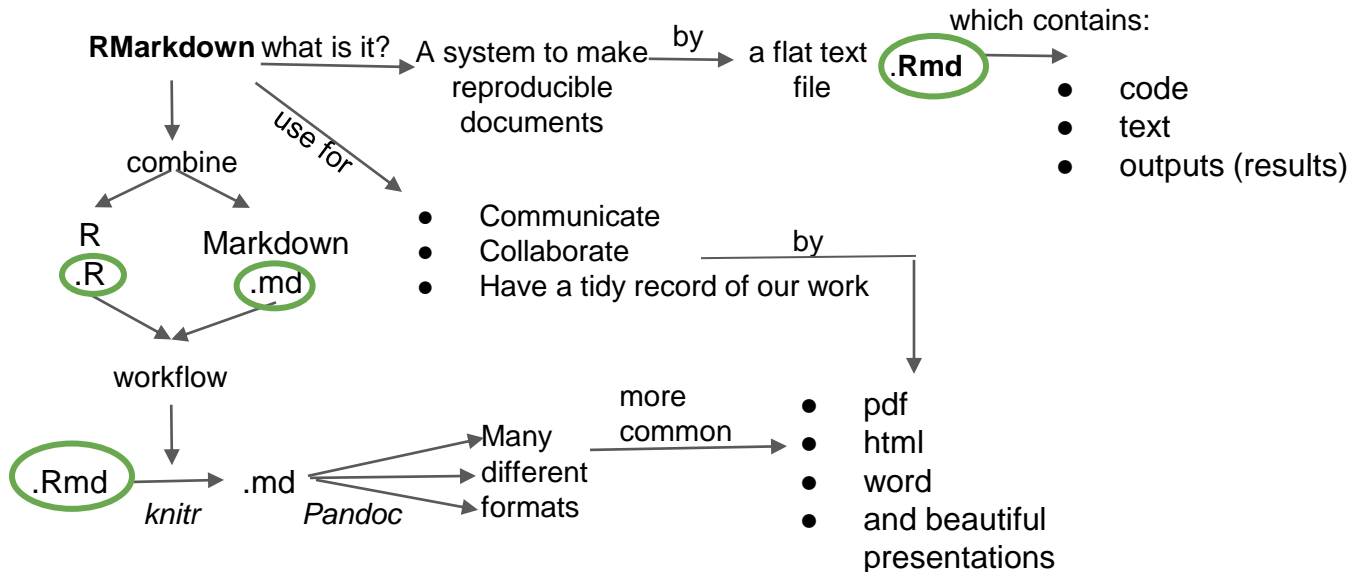


Customizing a Site's Appearance with CSS

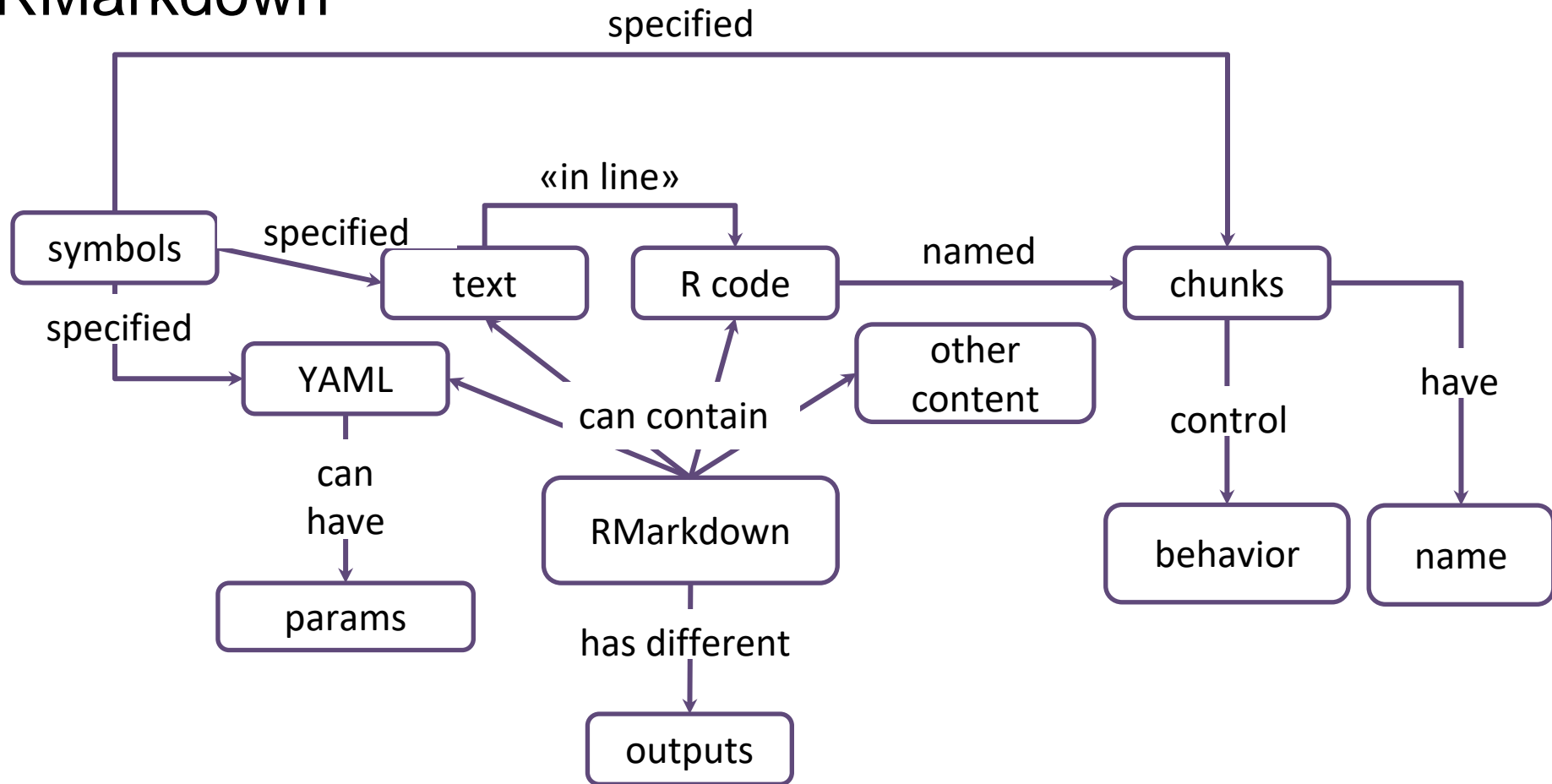
Customizing a site's appearance with CSS



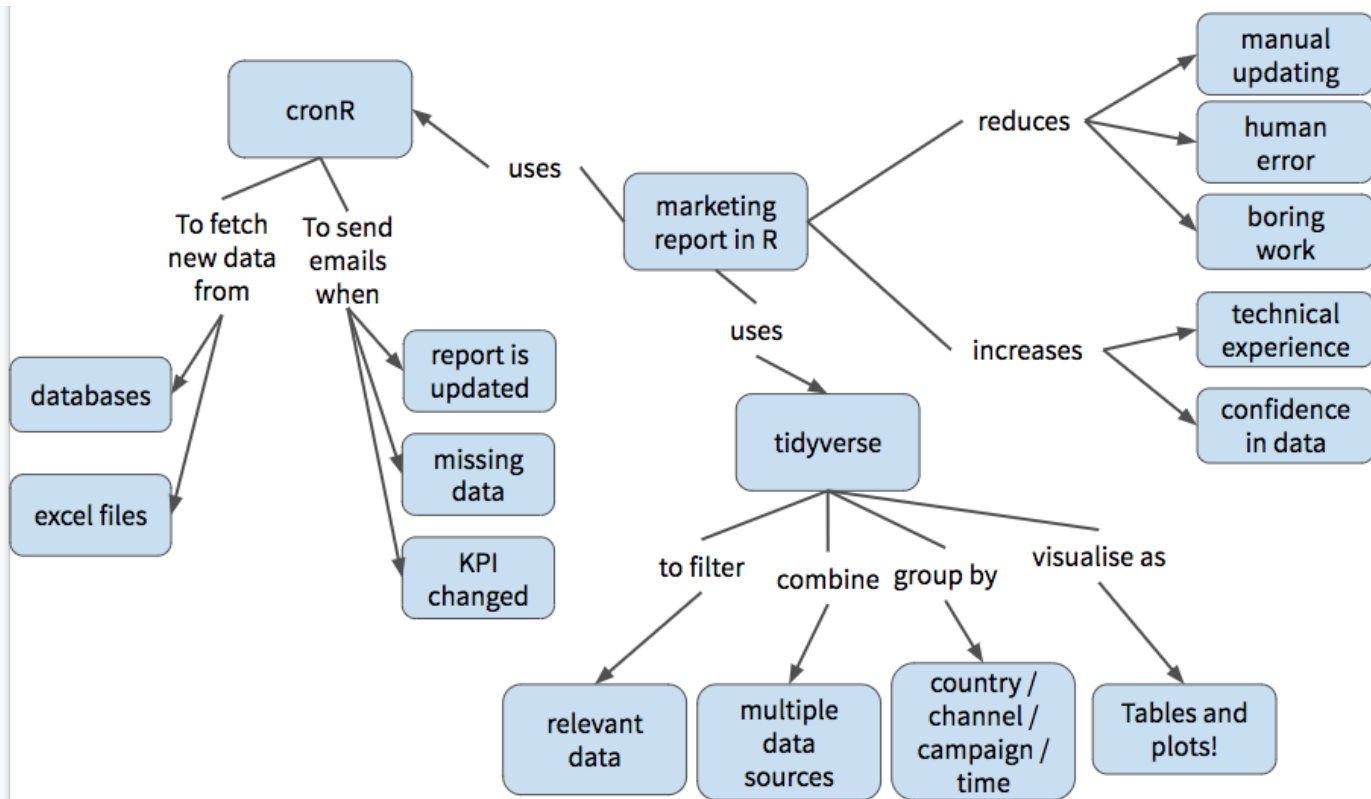
R Markdown



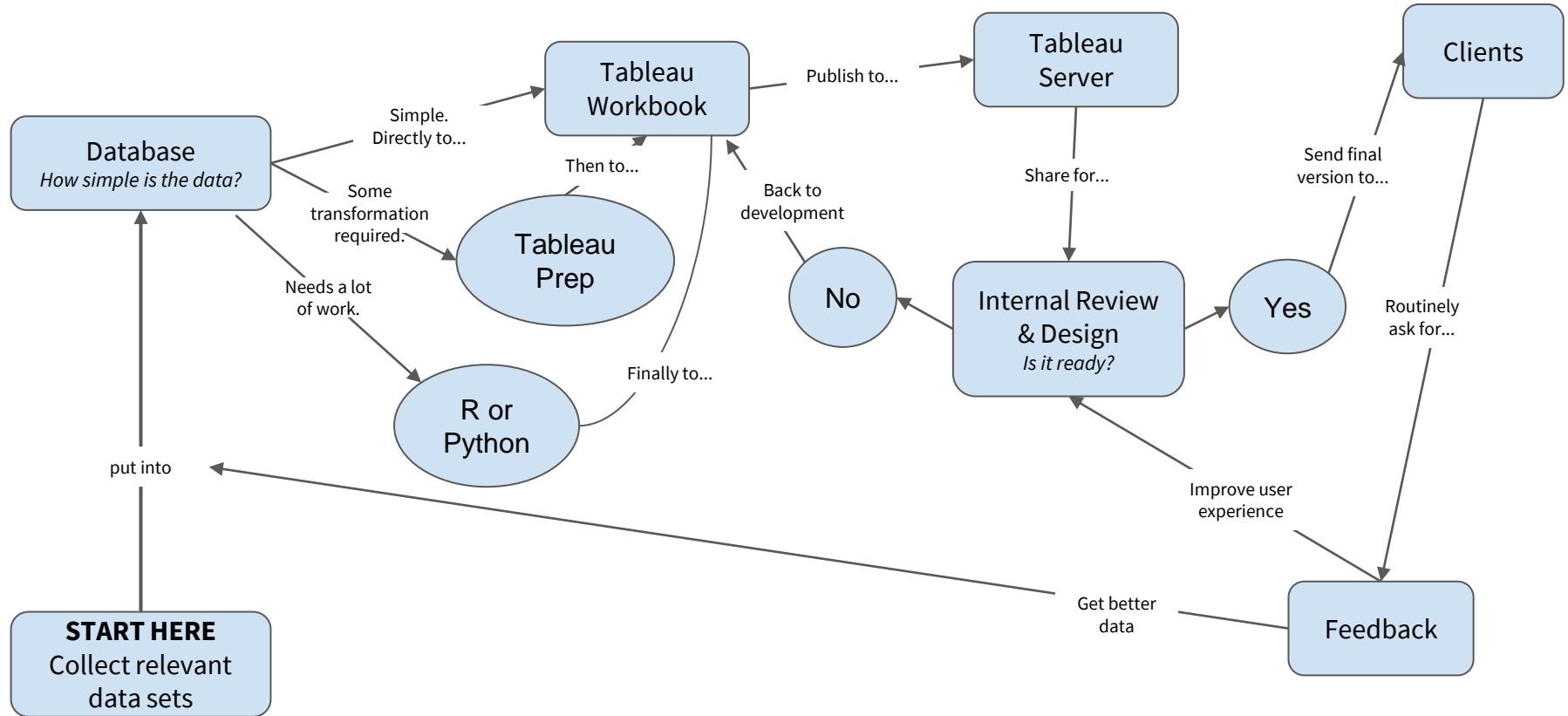
RMarkdown



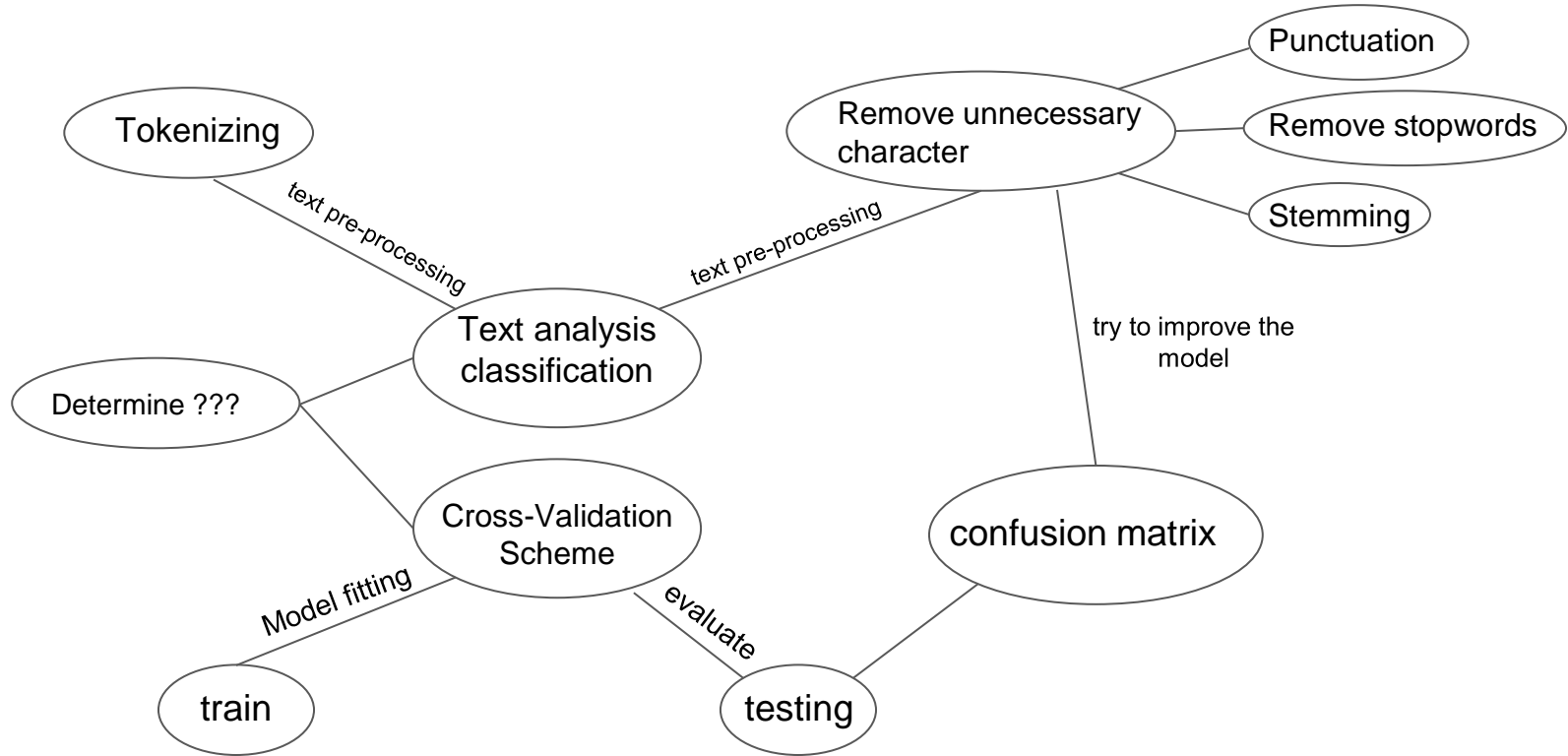
Marketing Reports with R



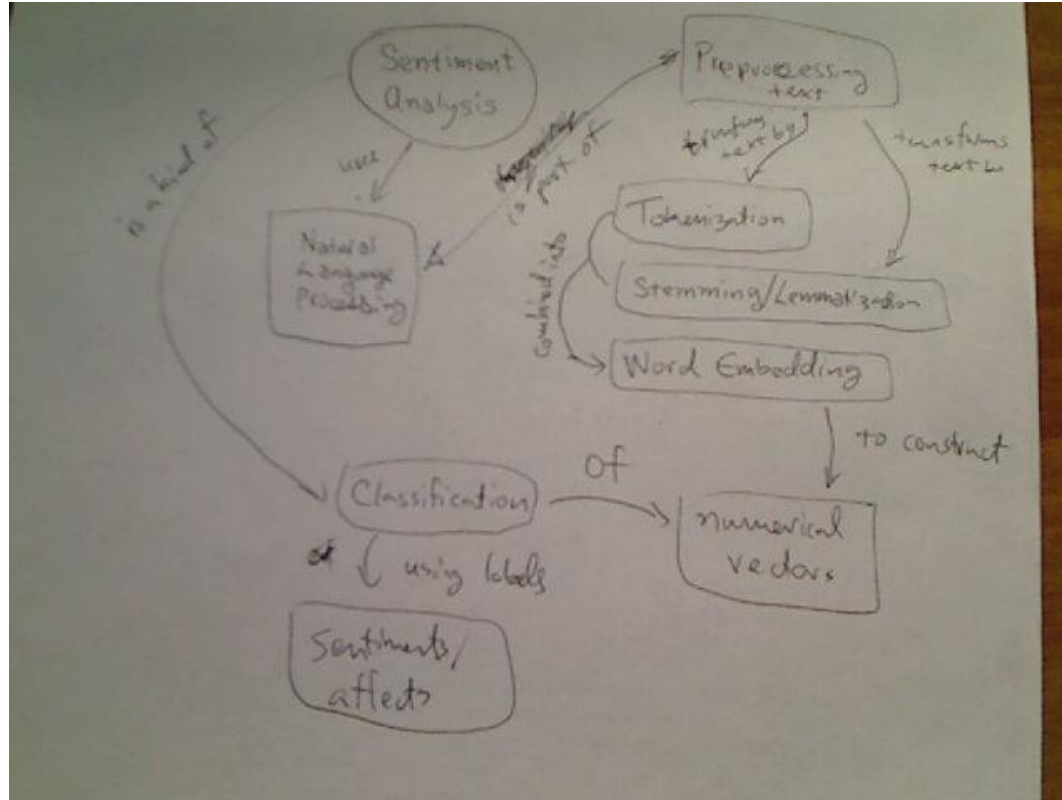
Creating a Tableau Dashboard Product



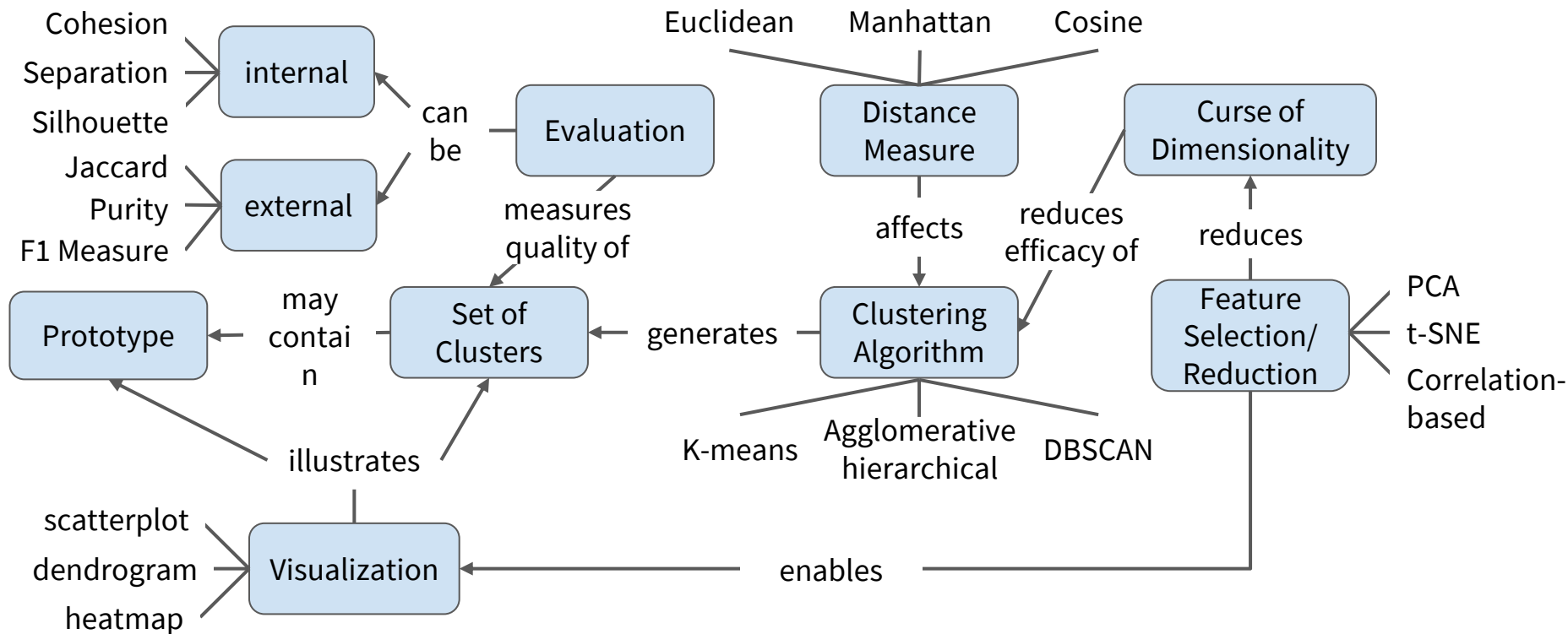
Text Analysis



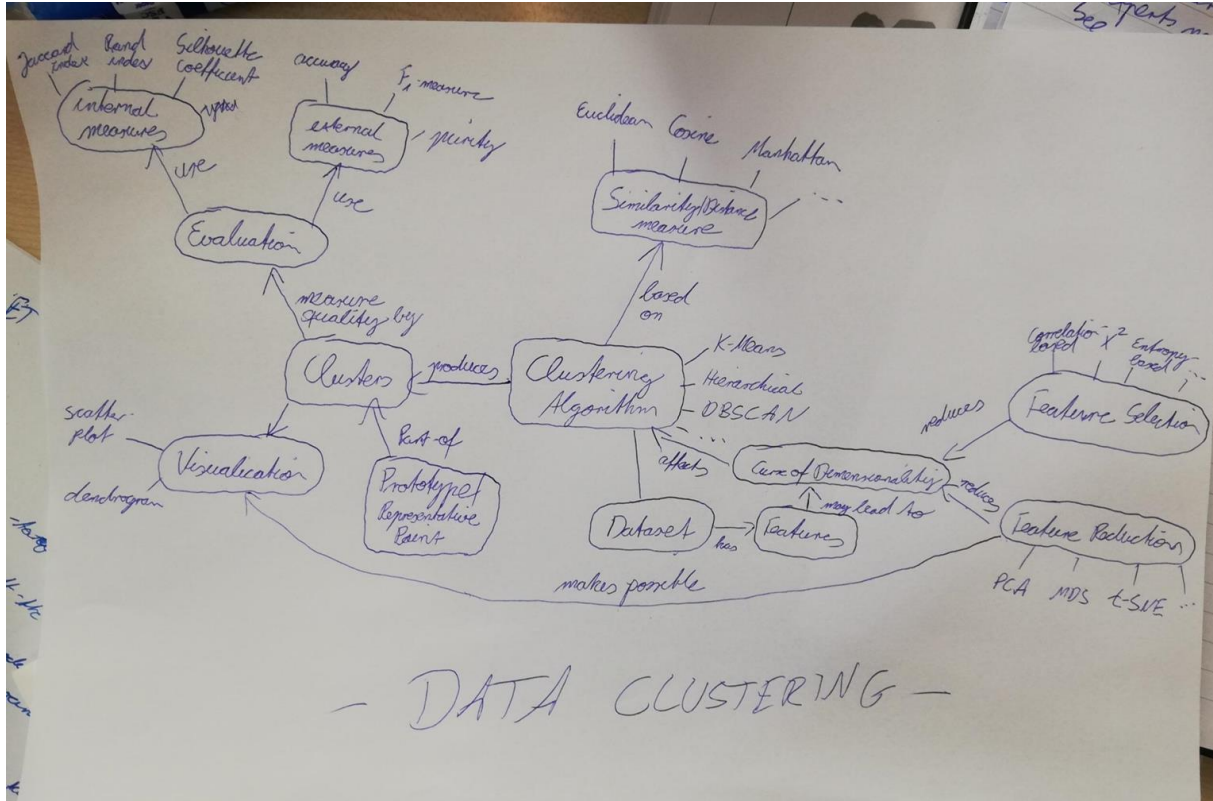
Sentiment Analysis



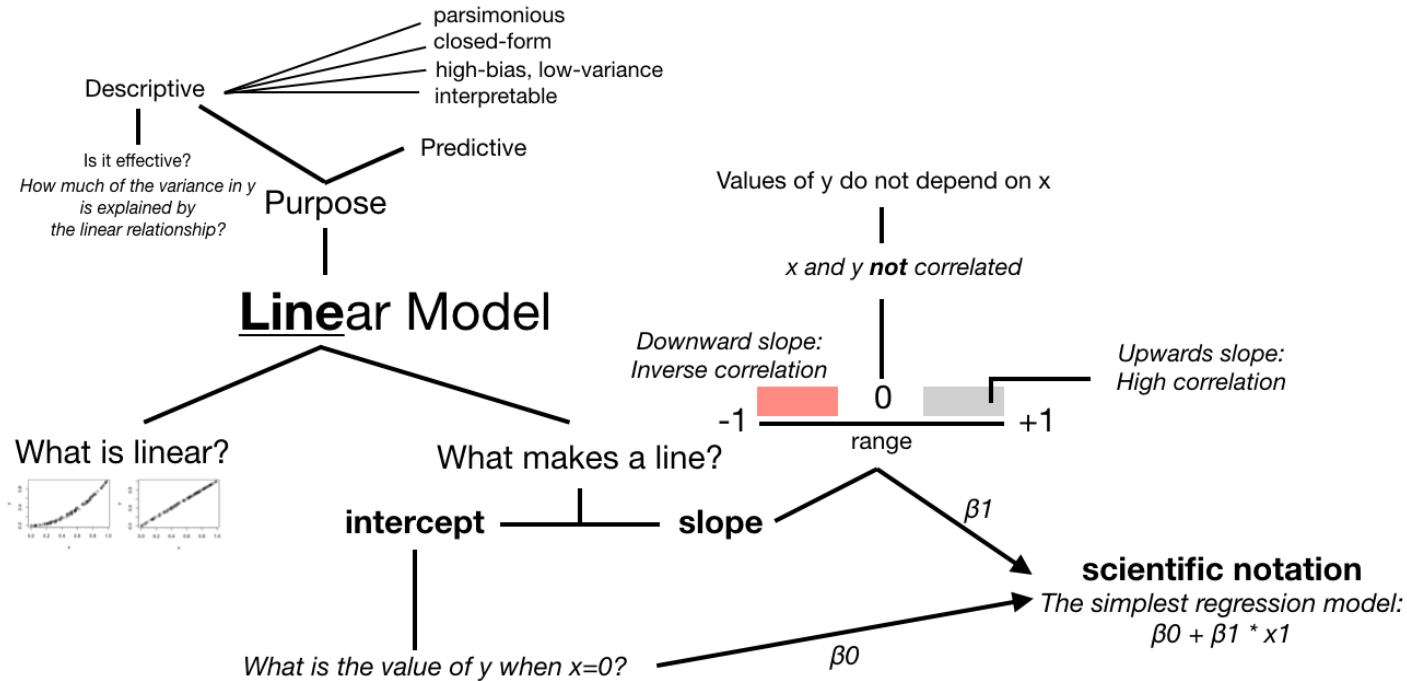
Data Clustering



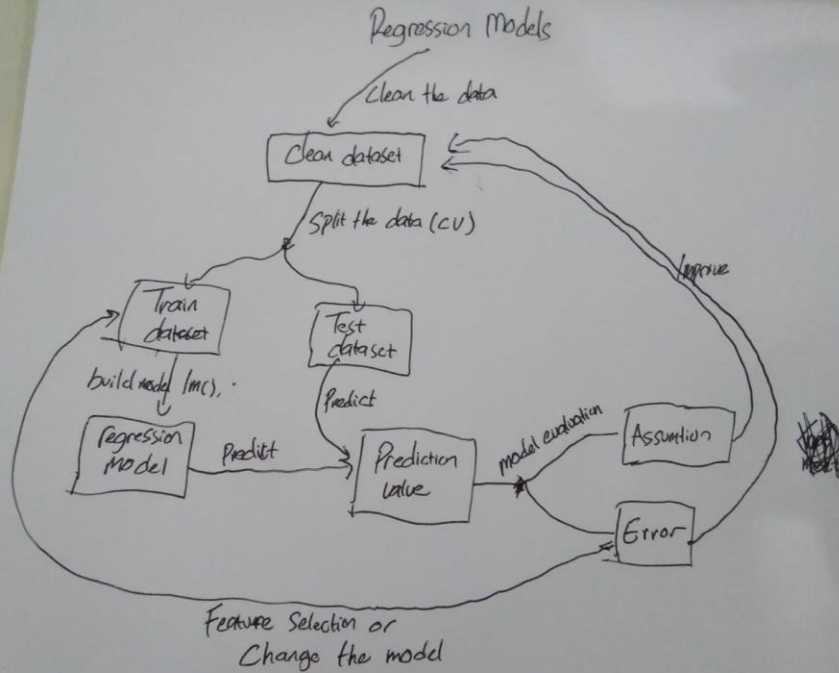
- DATA CLUSTERING -



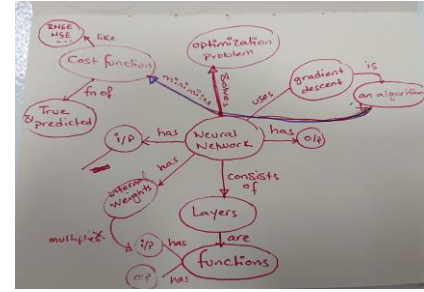
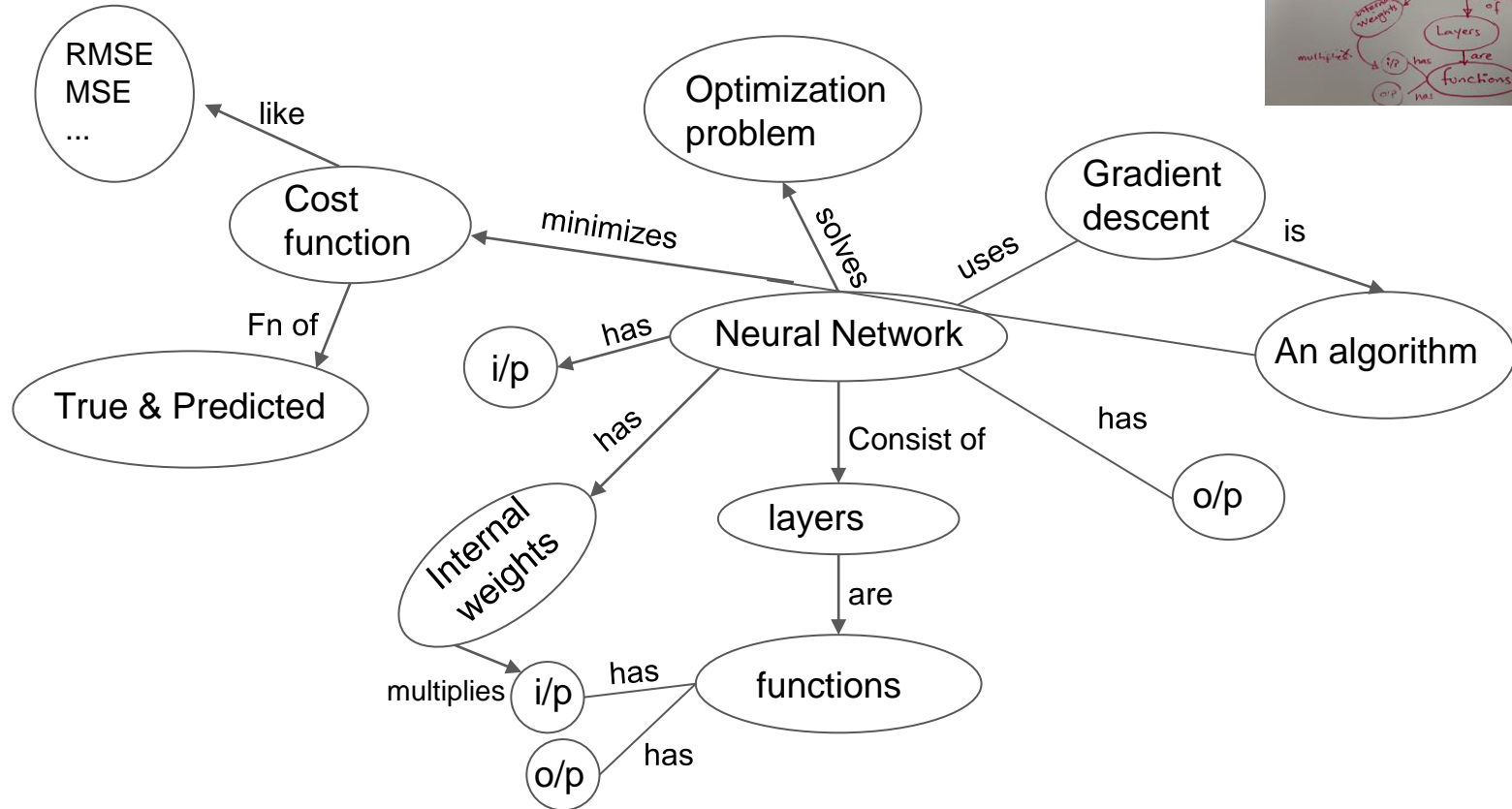
Linear Models



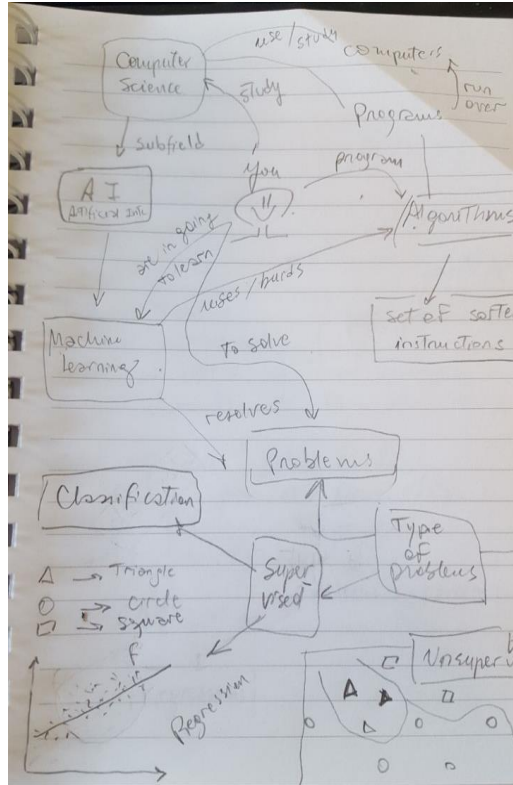
Regression Models



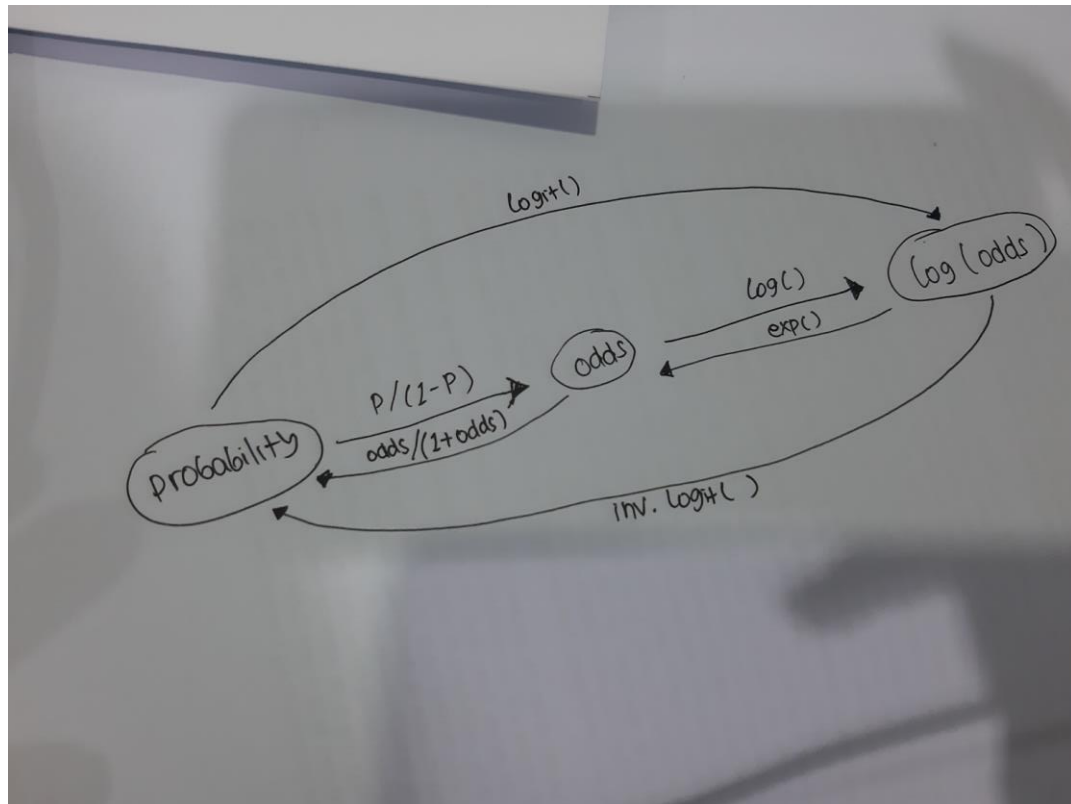
Neural Networks



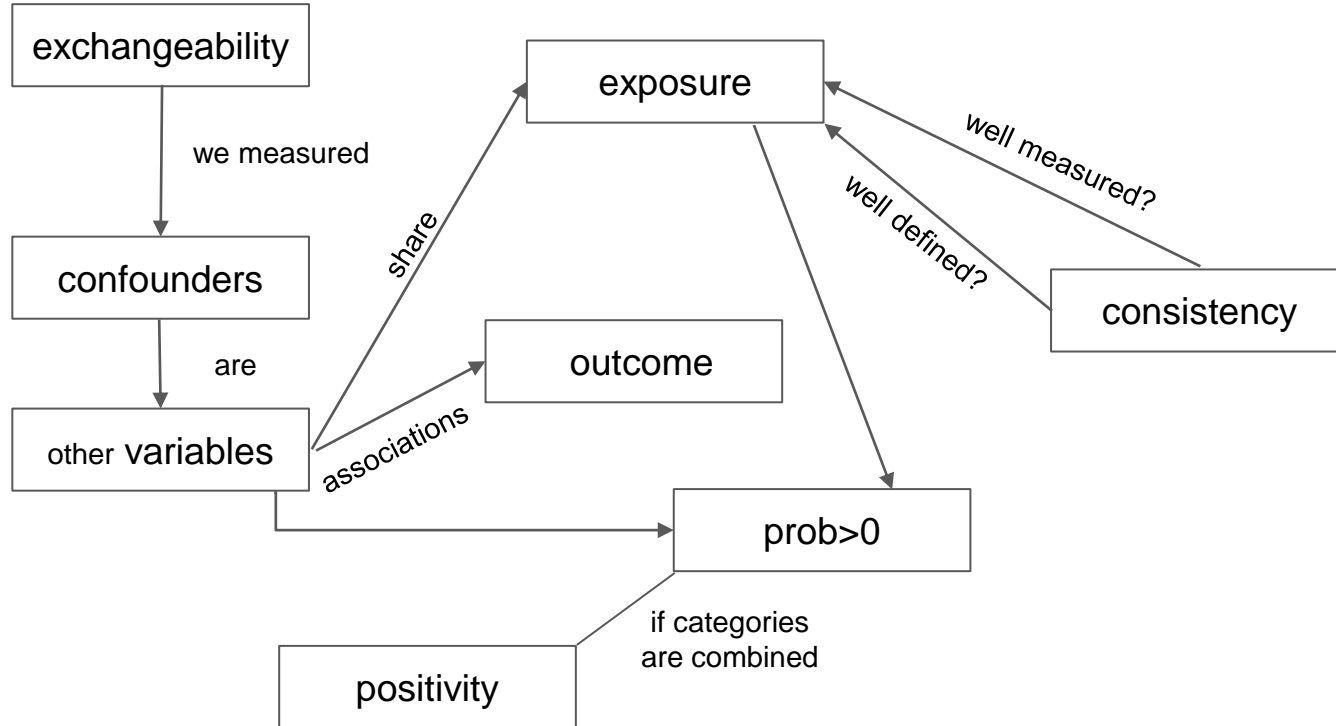
Machine Learning



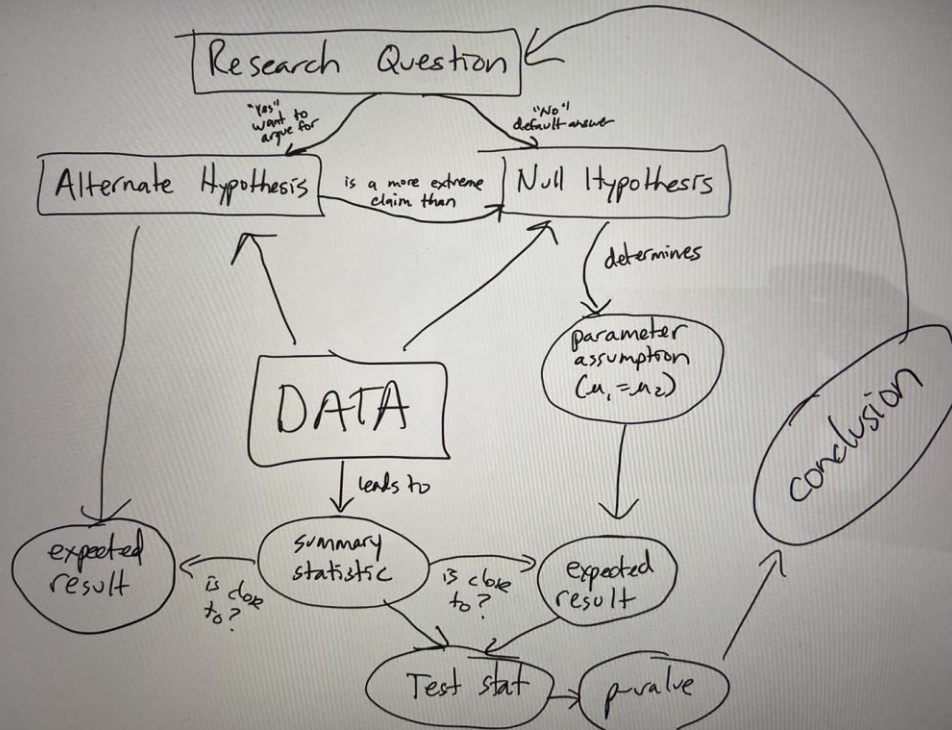
Log Odds



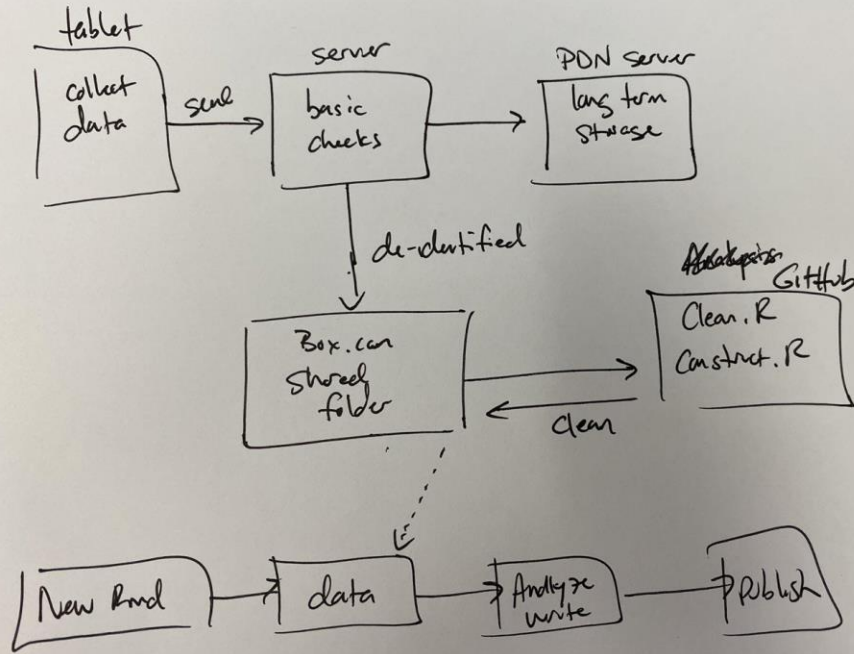
Identifiability Assumptions for Causal Inference



Research Workflow



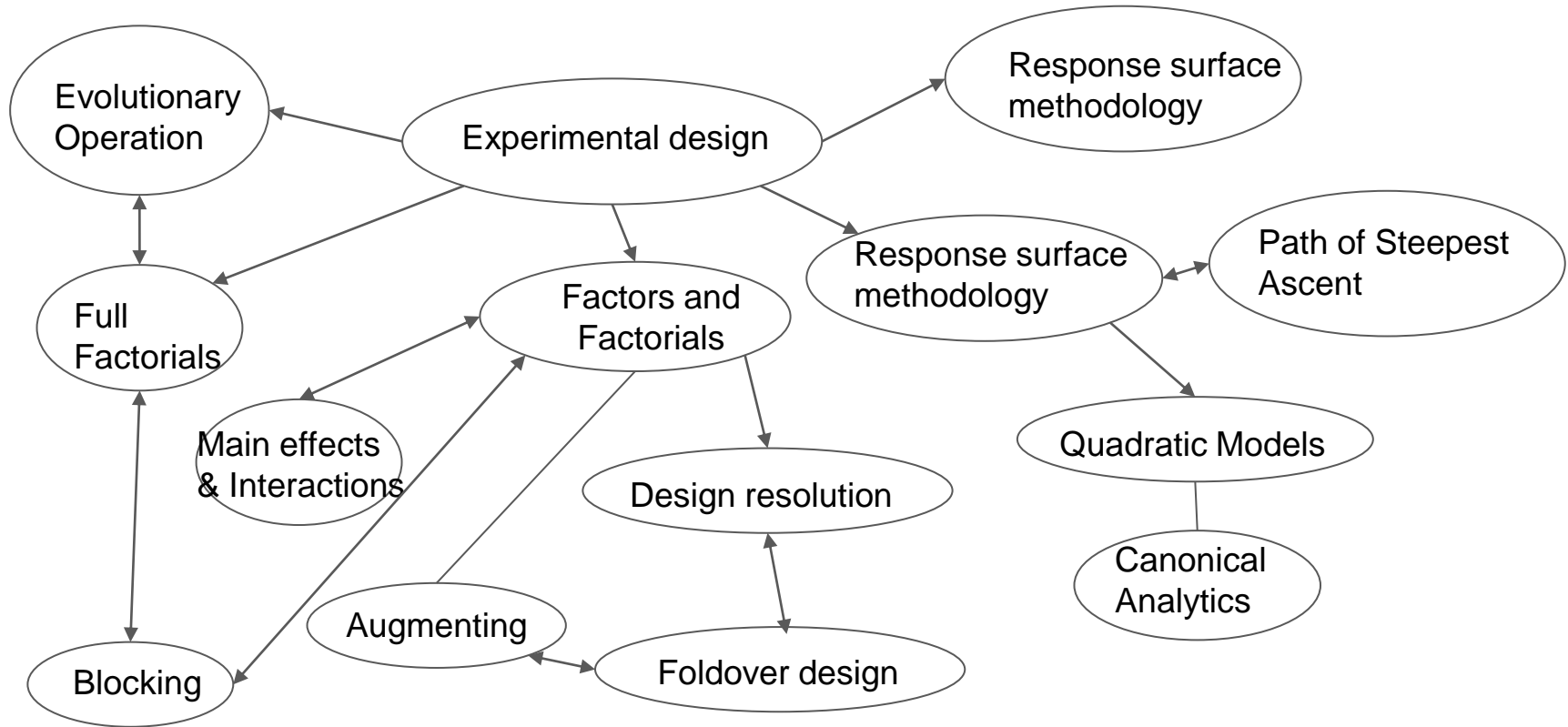
Data Analysis Workflow



Duke

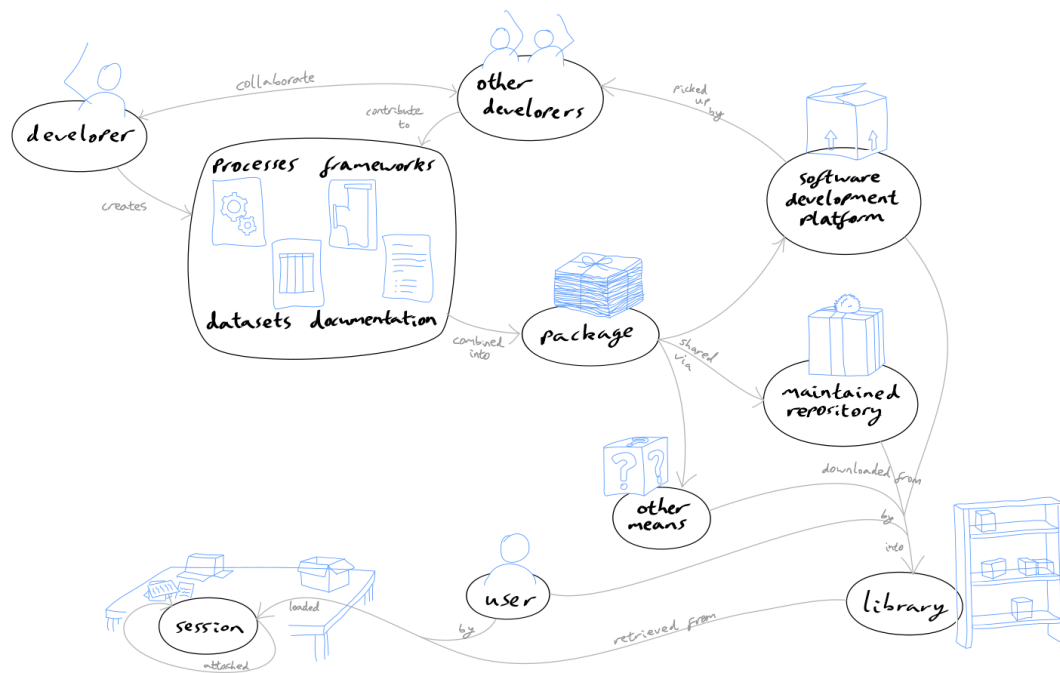
GLOBAL HEALTH
INSTITUTE

Experimental Design

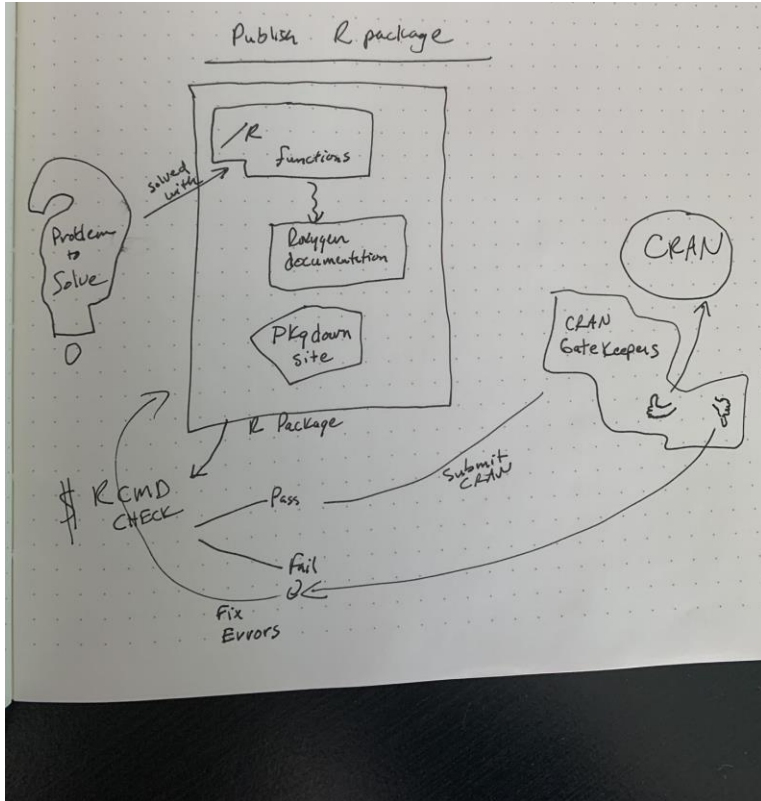


Sharing R Code as Packages

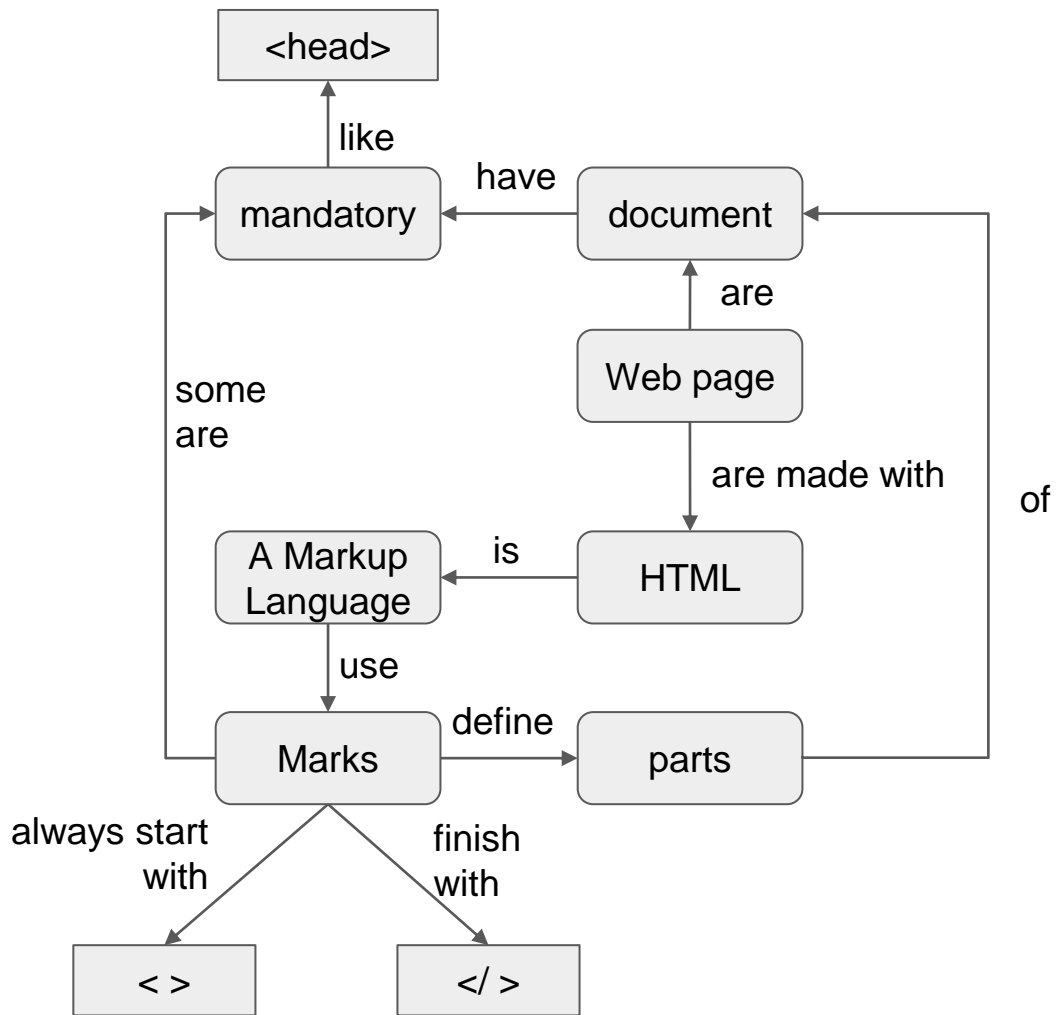
Sharing R code with packages



Publishing an R Package

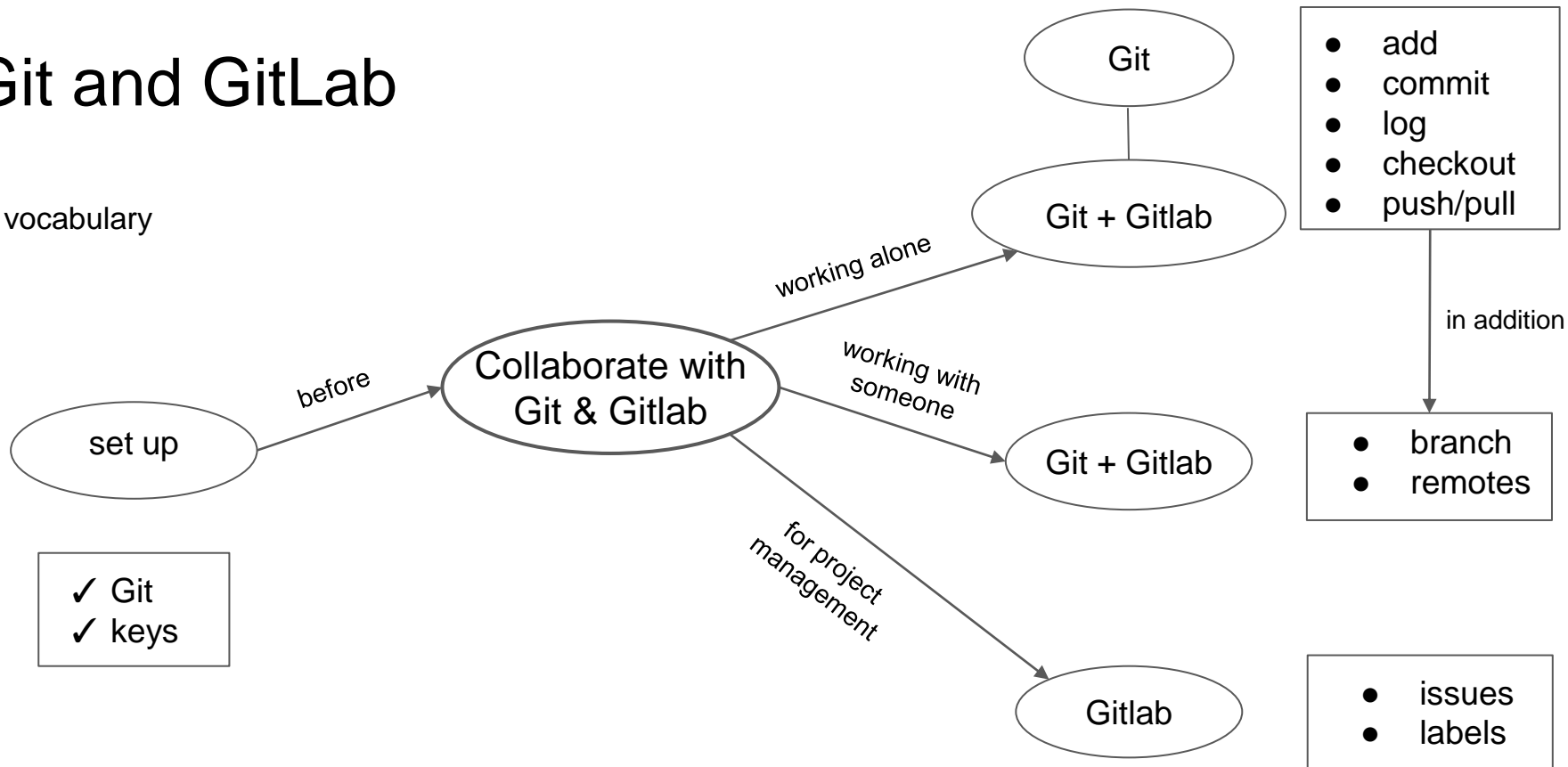


HTML

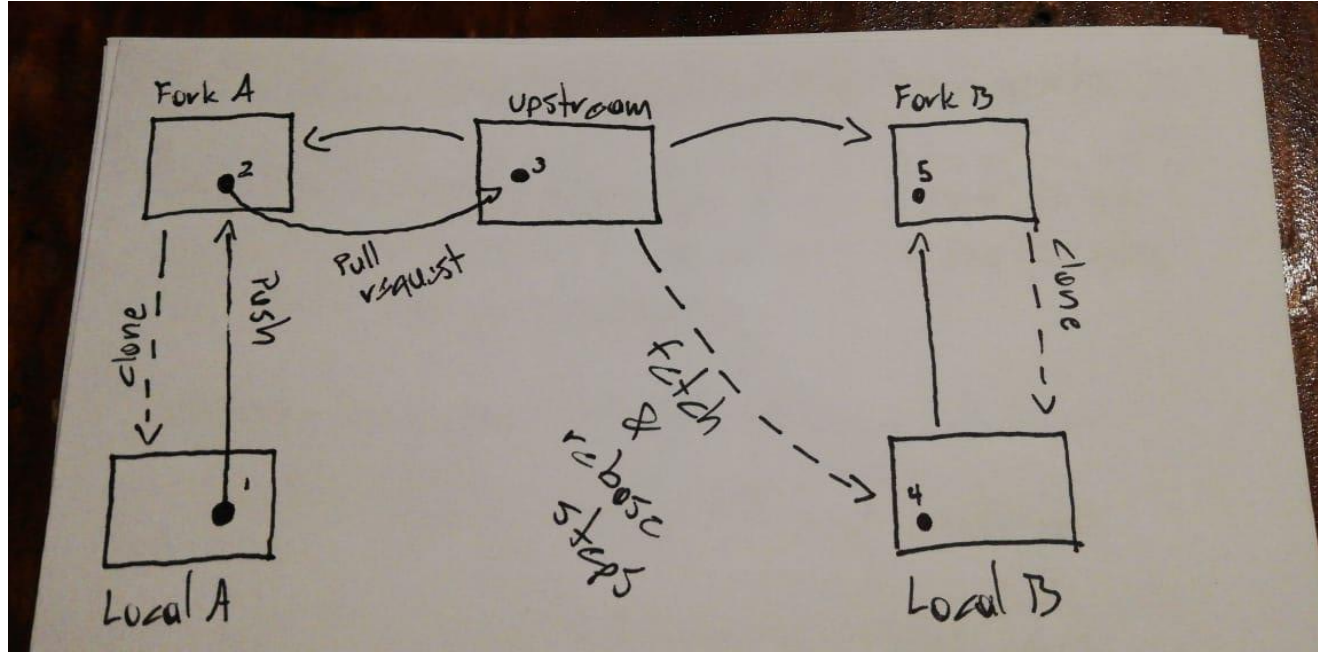


Git and GitLab

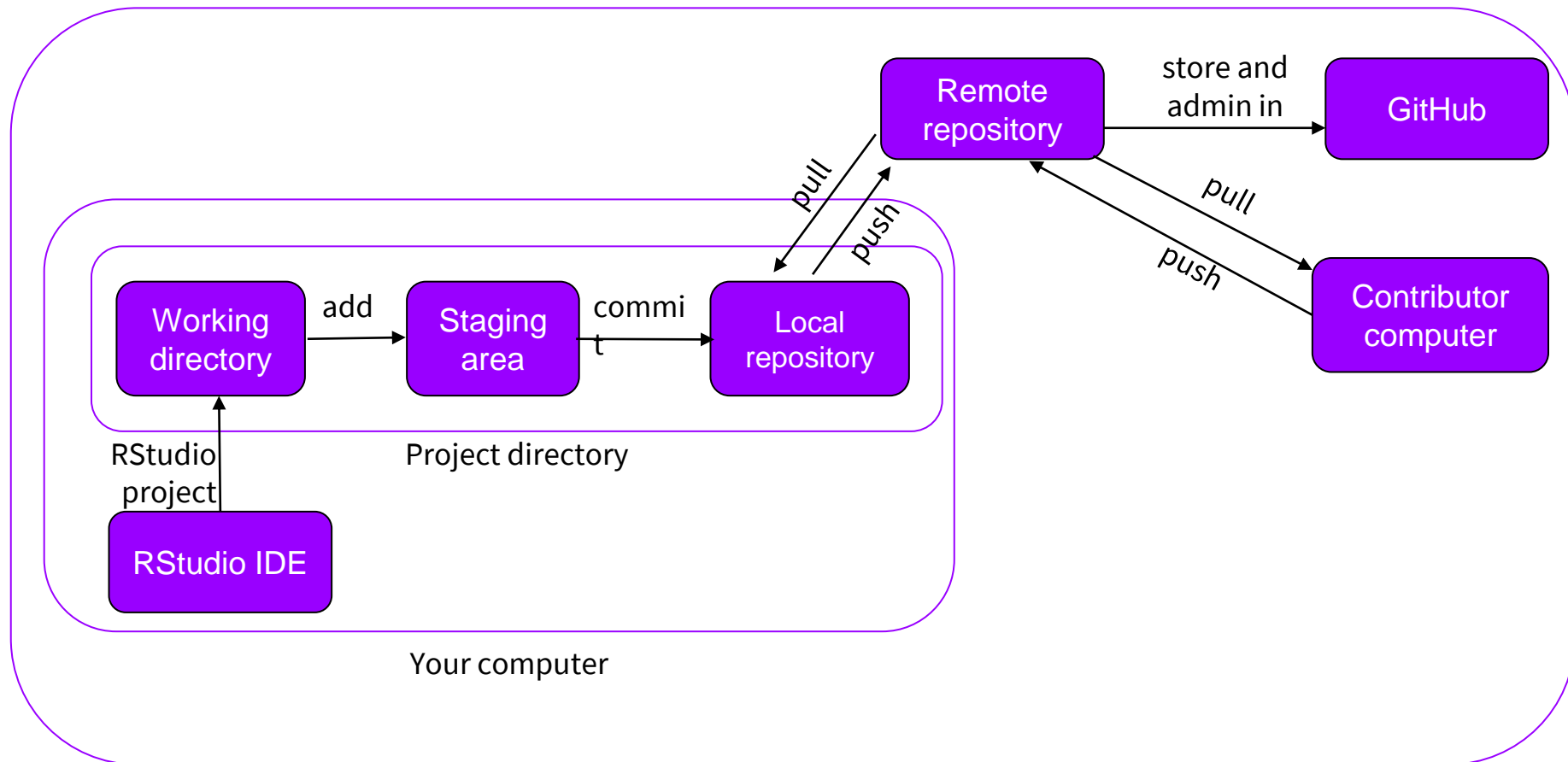
□ vocabulary



Git Workflow

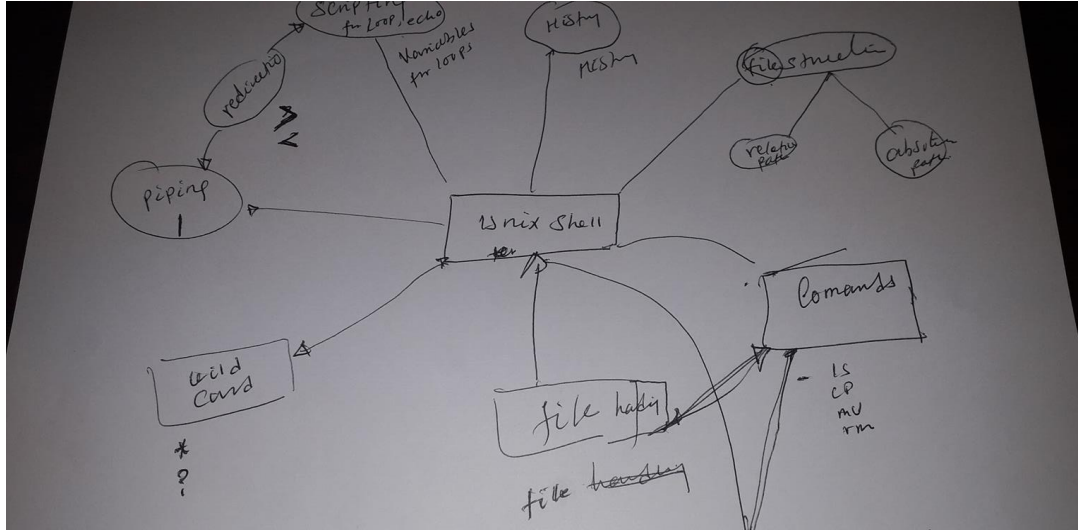


Git with RStudio and GitHub

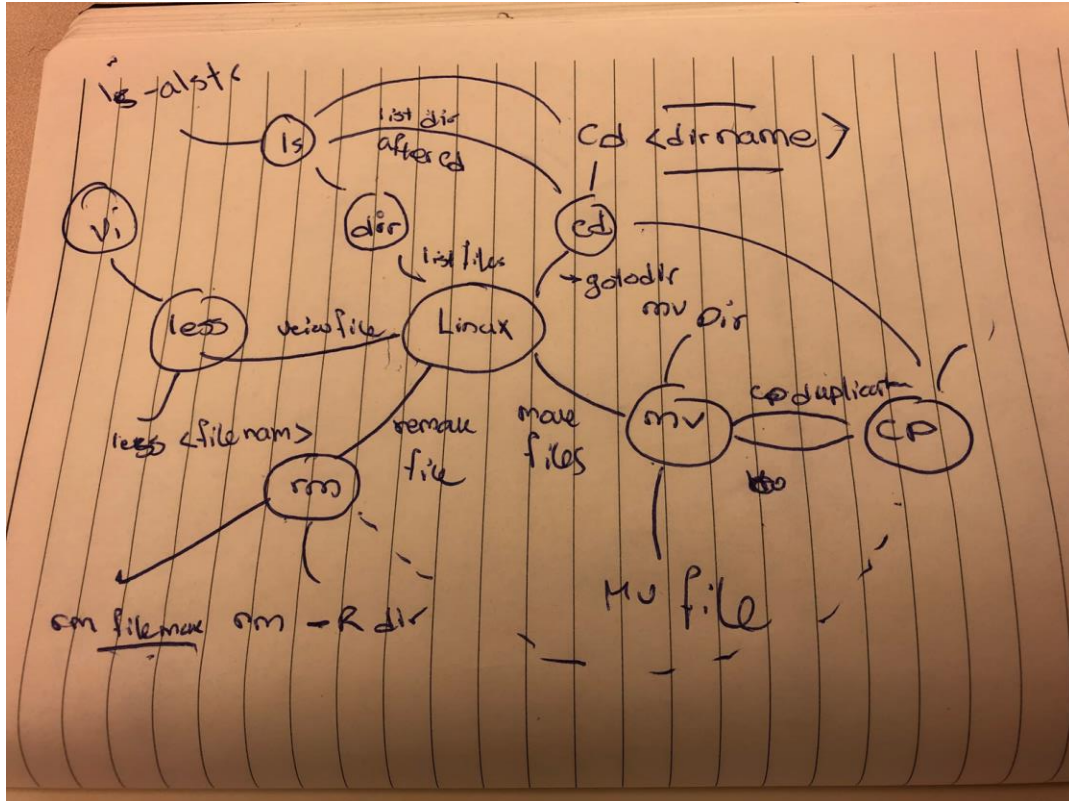


Version control

Unix Shell



Unix Shell

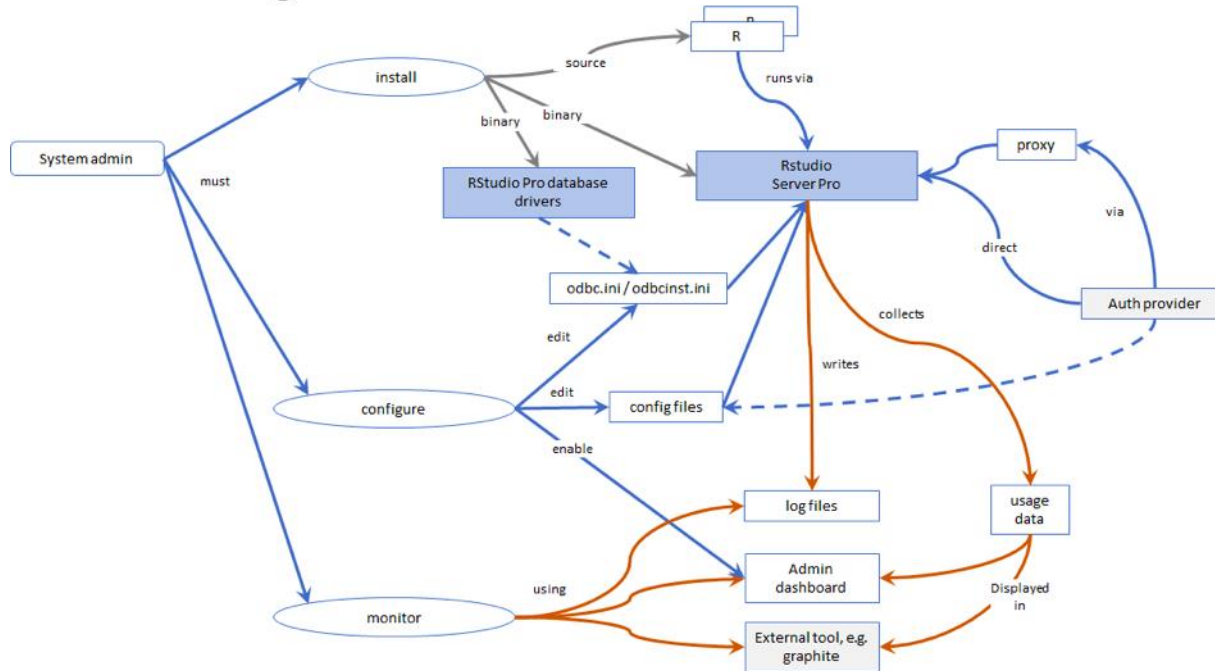


Publishing Data on a Server

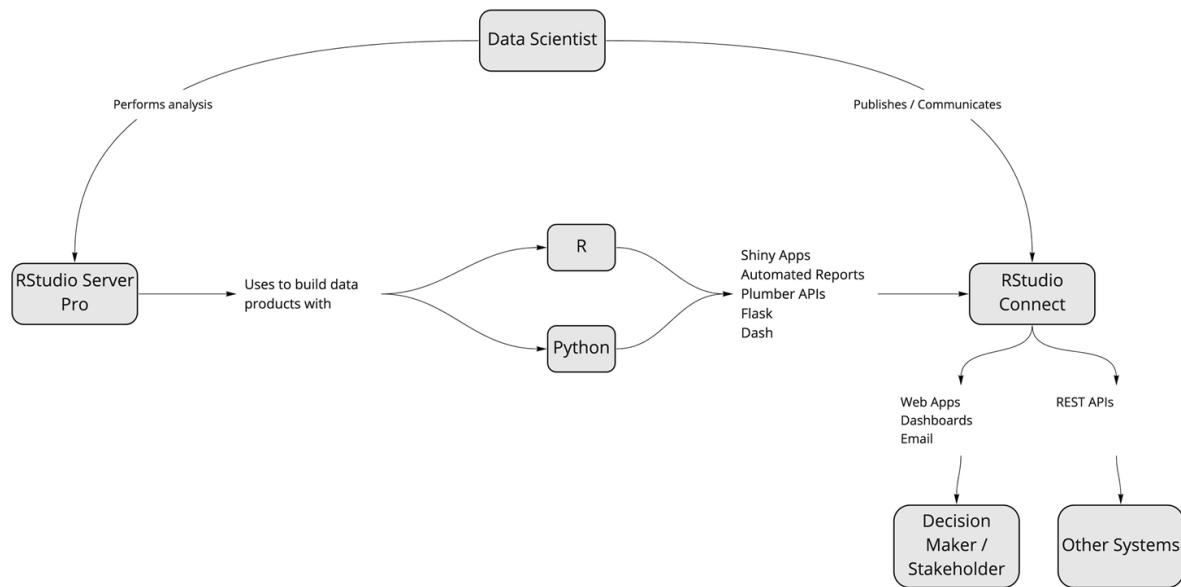


Administering RStudio Server Pro

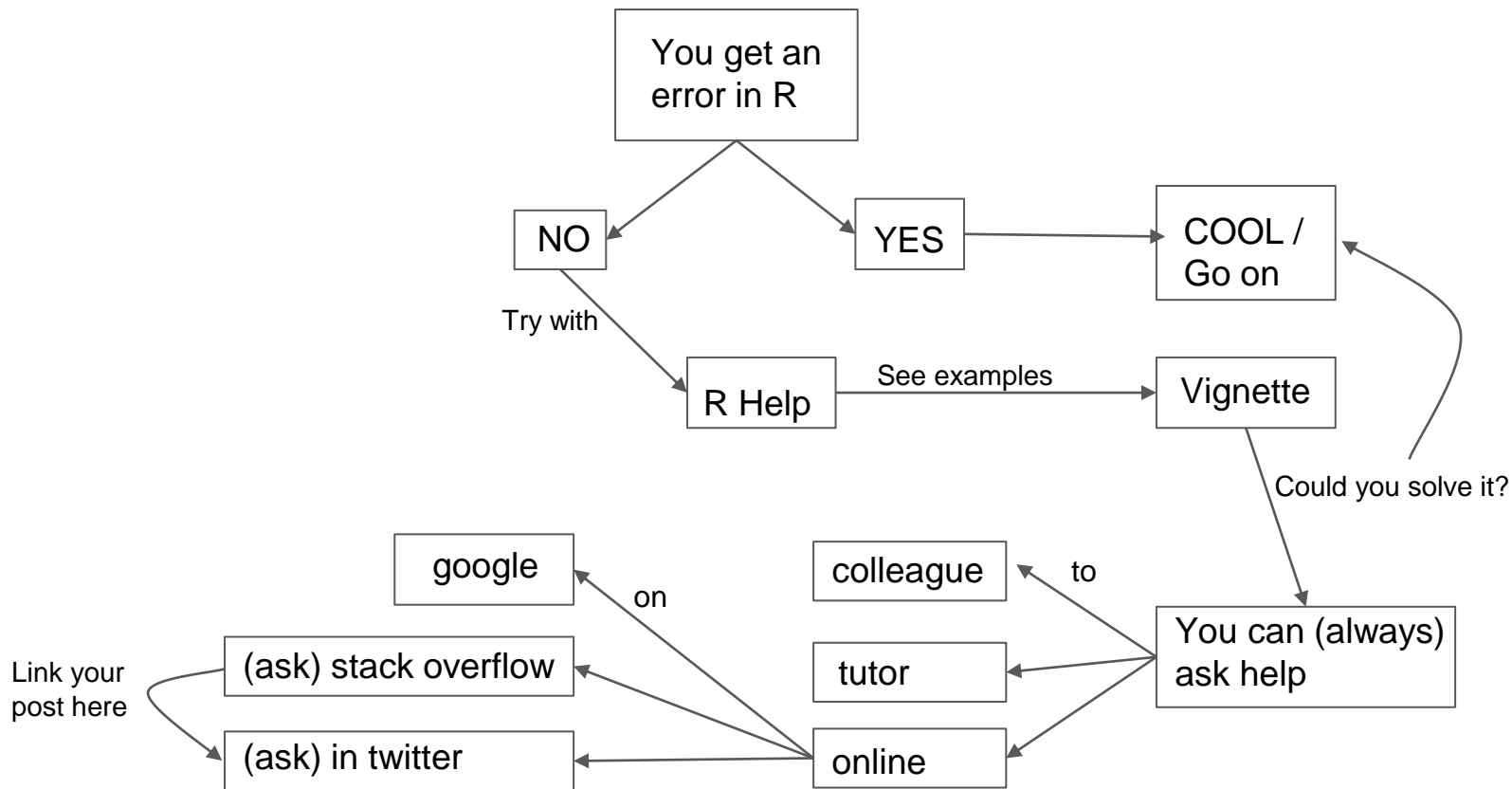
Administering Rstudio Server Pro



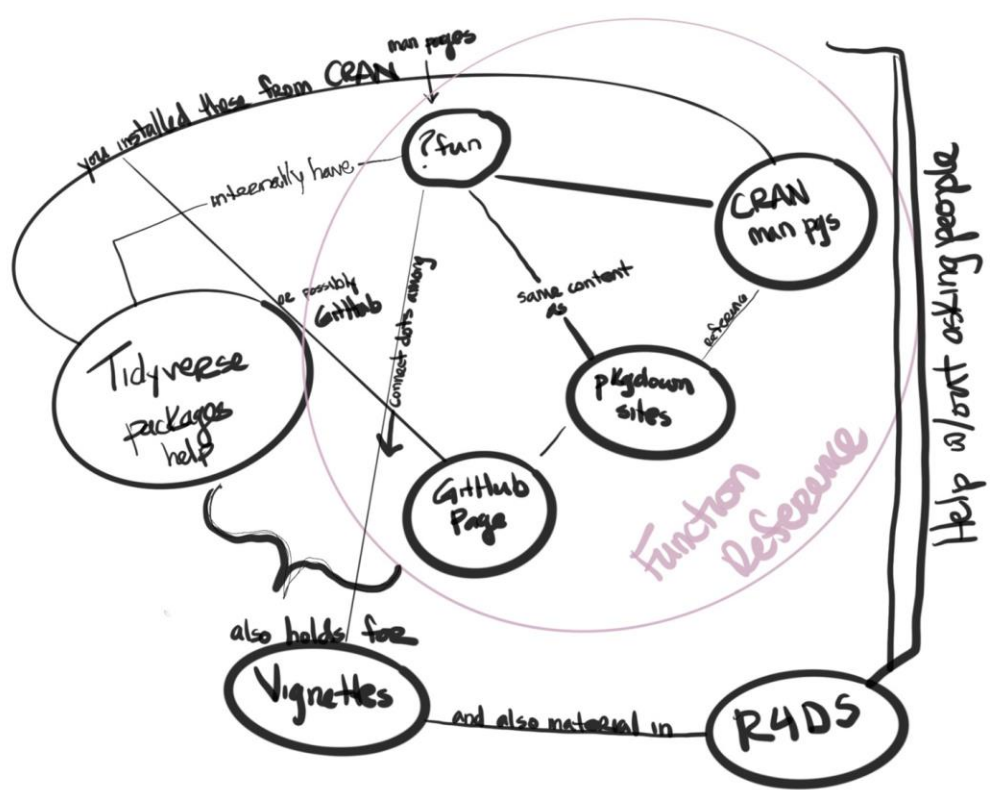
Where Data Scientists Fit In



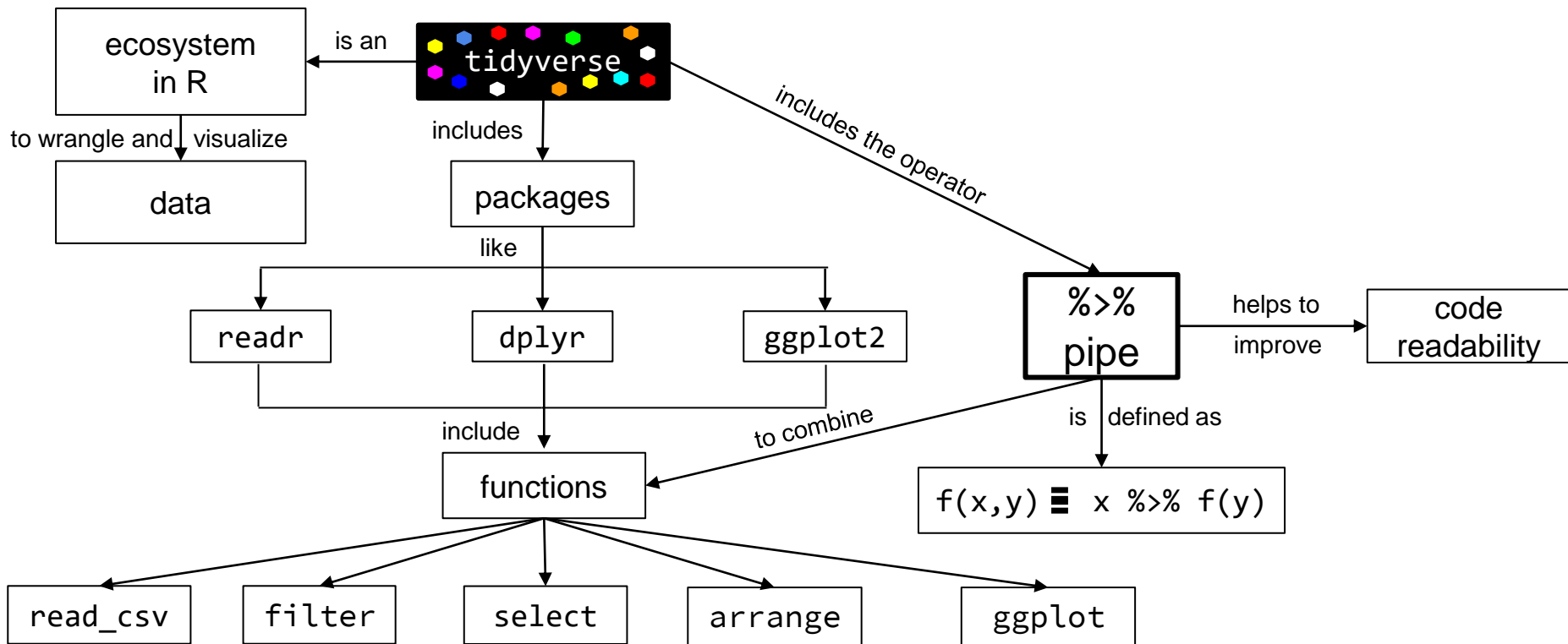
Getting Help for R



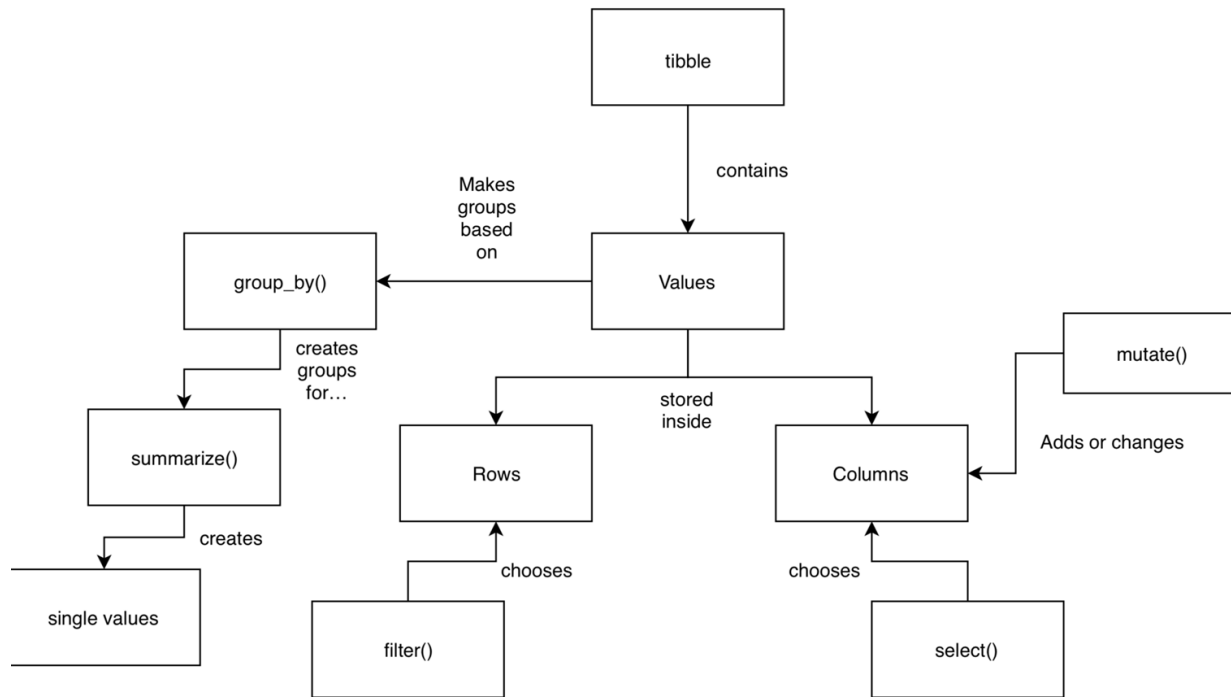
Getting Help for R



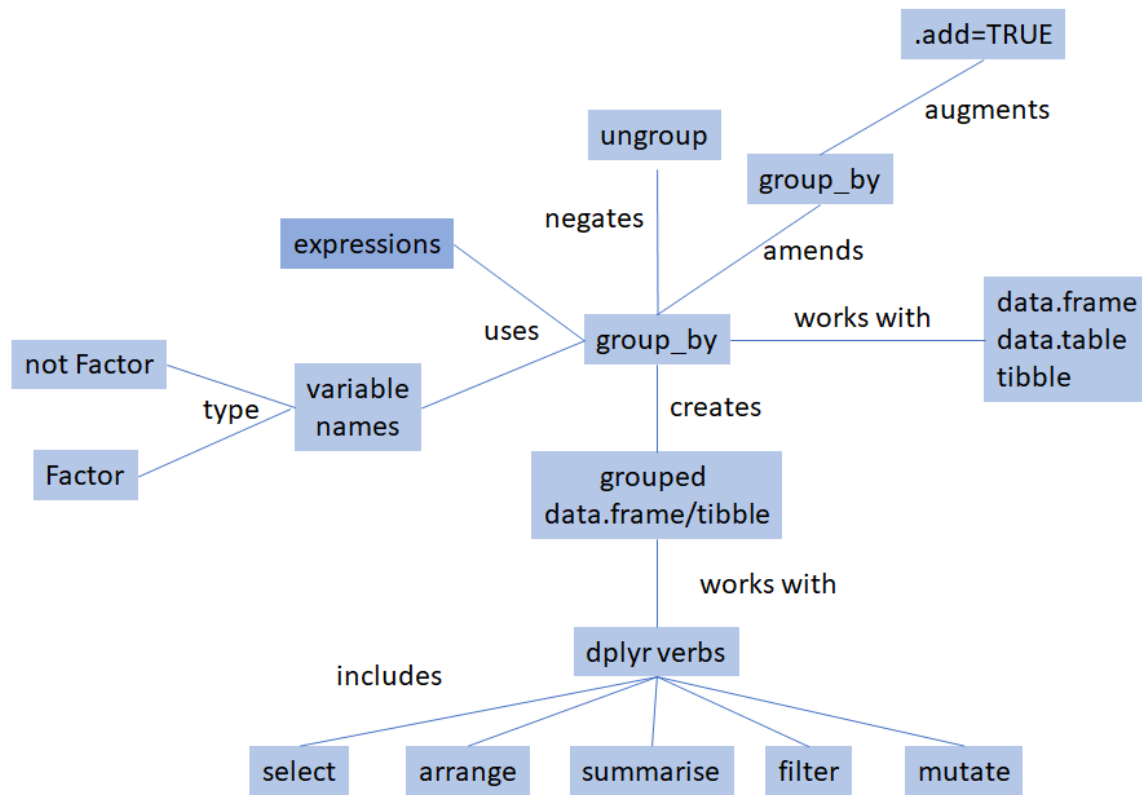
Tidyverse and the pipe operator



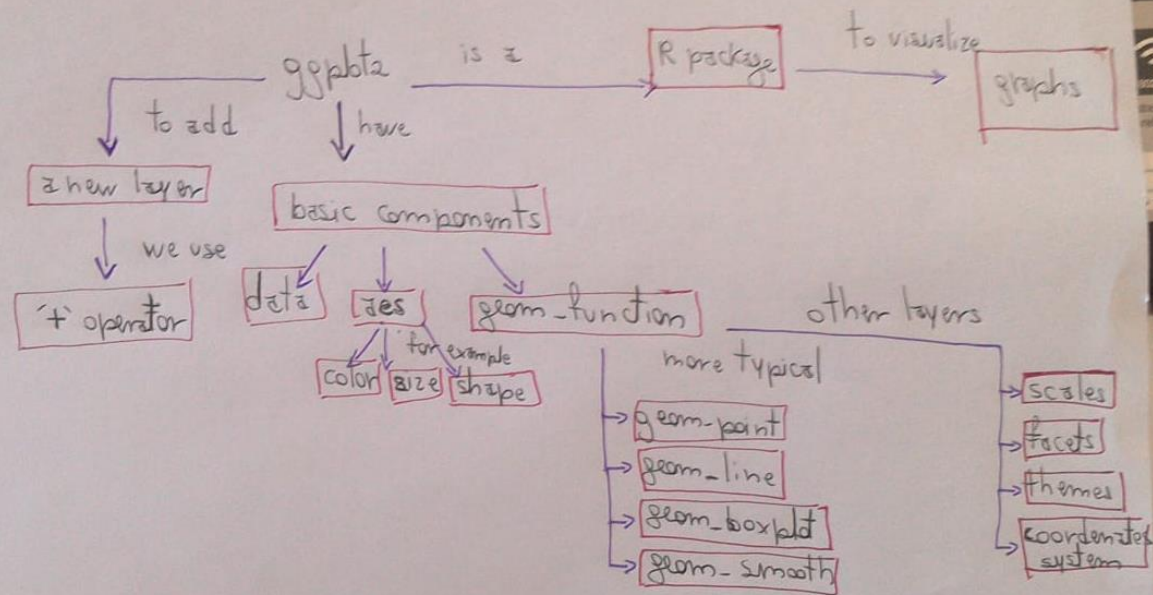
Main dplyr Verbs



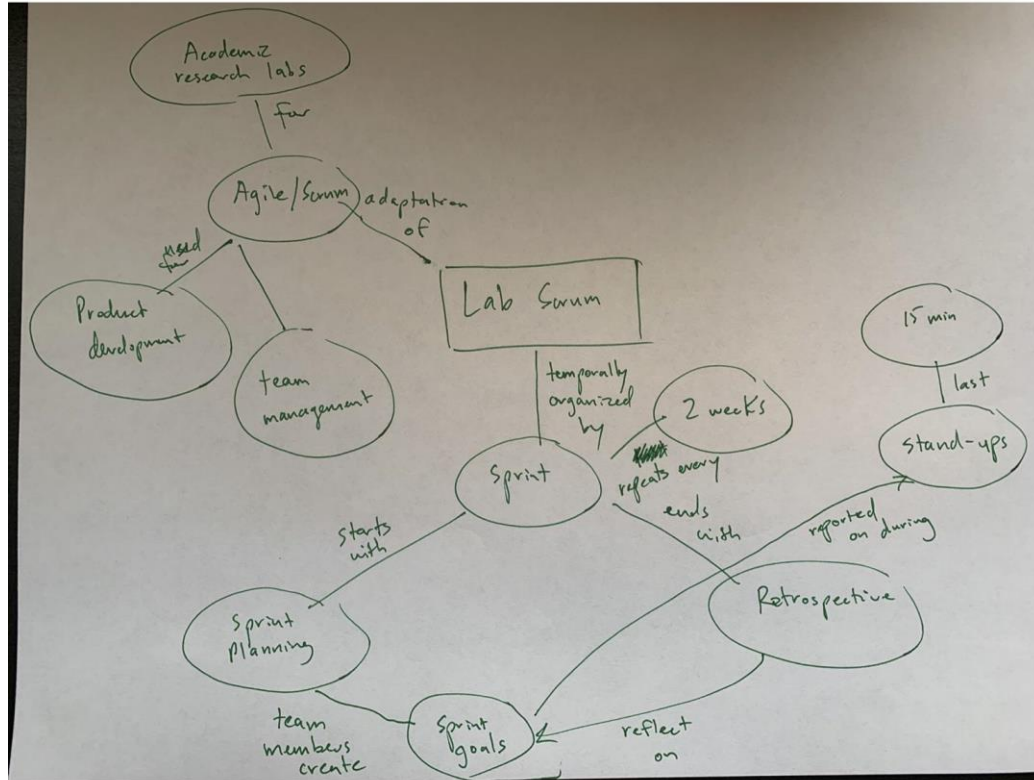
dplyr grouping



ggplot2

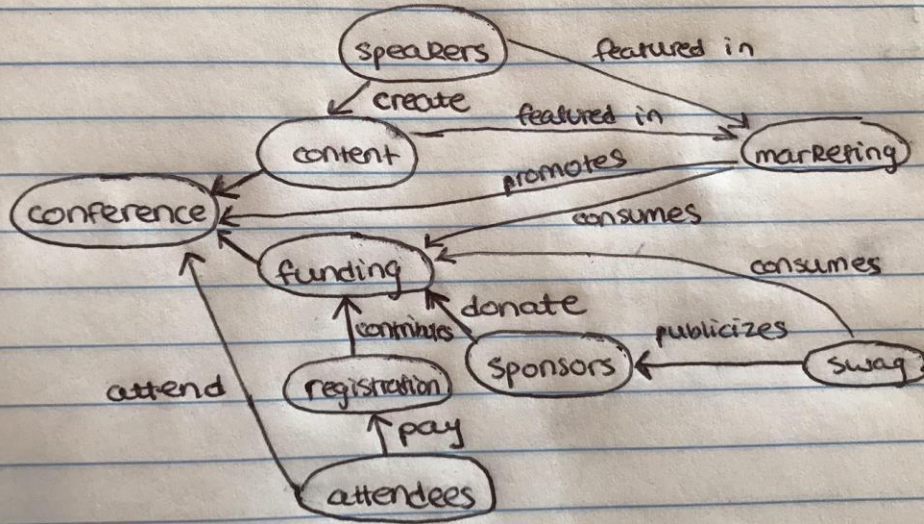


Agile Development

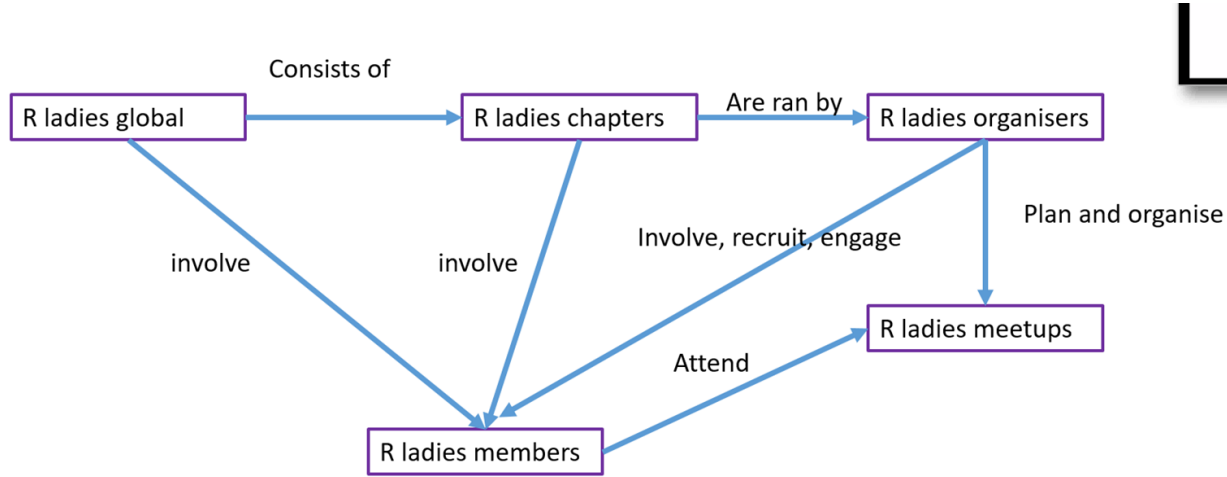


satRday Planning

Planning a satRdays Conference



R-Ladies



How to Set-up an R-Ladies Chapter

