W1 and W4 Notes:

W4:

* Exploratory figures show raw data as is.
* Use things like boxplots, scatter graphs (without line of best fit), histograms etc.
* Using here function means more private, more reproducible.
  + This is a relative path, specific to the users computer, meaning other people can use your code more efficiently.
* Using geom\_jitter by itself can be problematic as it prescribes a random x-value to the jitter.
  + Can tell computer to generate x-value in same way every time (random seed)
  + Importantfor people using Bayesian stats where they need to be able to reproduce stuff.
* Alpha inreases transparency of dots.
* Use colour blind friendly colourschemes.
* c= concatenate. Tells r to put everything in together.
* Could make function and put in separate script, to tell R exactly how to make boxplot.
* Can overwrite inside functions as they have transient existence.
* No need to keep rewriting code for figures for diff purposes e.g a4 and poster.
* Every time install new package, need to update renv.
  + Install.packages In console OR
  + Renv::install([package\_name])
* To change font sizes relative to figure, can change scaling to make stuff scale up.
* If increase size, increase scaling.
* Save figures as .svg or .pdf. Image vectors.
  + Make images crisper- saved every line as line not number of pixels.
  + Saves every element of image as a shape, meaning can zoom in as much as possible.
* If need to make 3 versions of boxplot, can code and save as 3 diff files.

Git:

* Programming language made to keep track of files, and keeping files safe.
* GitHub is product acting as project repository.
* If trying to keep something safe, can use github to track version history and ensure stuff is kept safe.
* Important for transparency, especially given high standards scientists are held to.
* LF assignment is about collaboration and using code generated by other people.
* Commit, push and pull (pull from someone else, push sends to github, commit keeps on your machine).
* Create github repository to send files to.