# Today

- You’re going to learn how to simulate 100s (or even 100,000s) of repeats of the same experiment to determine what pattern of *p*-values and effect size estimates you'll get (assuming there is a medium size effect to be found).

- We’ll look at how to use loops to do this, and how to package a set of code that you might find yourself re-using as a function.

- We’re also going to look at more advanced data visualisation tools including animated plots using the new `gganimate` package, visualisations of text data, sentiment analysis using `tidytext`, how to create BBC-style visualisations using `ggplot2` and the BBC R Cookbook, and how to use git for Version Control.

# Writing clear, human readable, and consistent code.

- I’ve seen a variety of different types of approaches to coding in assignments - while most code works fine, it can vary quite a lot in terms of clarity and consistency.

- Code needs to be both computer readable and human readable.

- A good resource for mastering writing clear and human readable code can be found in the Tidyverse style guide:

  `https://style.tidyverse.org/_main.pdf`