# Statistics Folio

## Overview

# Assignment Overview

- You need to choose (at least) two classes from the memory game data to perform your analyses on. The data is also on Daymap.
- You then need to:
  - **construct**, and then
  - **interpret and discuss**

  several graphs and statistics.
- You can write this all up as a report, or propose an alternate form to present your analysis.

# Assignment Key Points

**DUE MONDAY 6th August.**

**Task Sheet** and **Data** are available on Daymap.

**Constructing** the graphs and statistics should be pretty straightforward.

**Interpreting and discussing** should be the challenging part.

Alternate presentations styles (as opposed to as a report) are an option.

# How to Construct the Graphs and Statistics

You have a few options for how to construct the graphs and statistics:

- You can do the calculations by hand, I'll go through how to do this in class.
- You can use some software like Excell, Google Sheets, or anything else.
- You can follow my tutorials on how to use R (warning: this will be challenging, and will involve some programming). If you are interested, here is the link: https://tinyurl.com/ybhrof4h. This link will also be available on Daymap.

# Part A

Cumulative Frequency Plots

# Part B

Boxplots

# Part C

Outliers

# Part D

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Histograms

# Part E

Other Summary Statistics

# Part E

Specifically, if not mentioned already:

- Mode,
- Standard Deviation,
- Range.

And more generally, the concepts of

- Measures of centre, and
- Measures of spread.