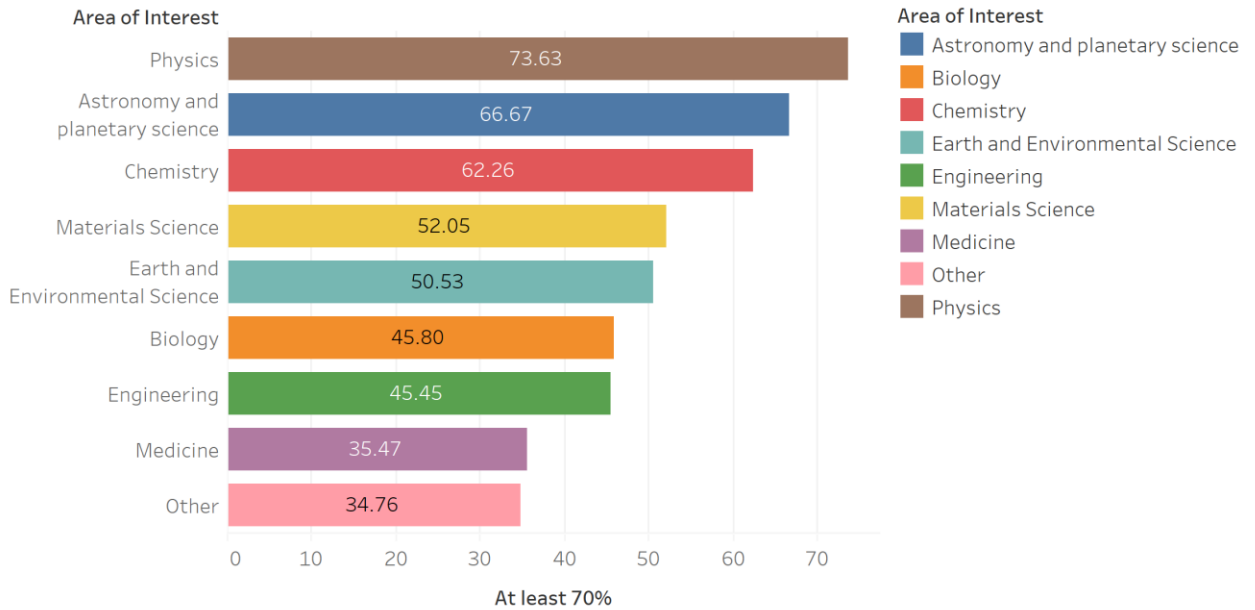# ISSS608 Visual Analytics and Applications

Weekly DataViz Makeover 5

The Data Visualisation

At least 70% of the published results are reproducible by area of interest.

Source

1. Original article: https://www.nature.com/news/1-500-scientists-lift-the-lid-on-reproducibility-1.19970.
2. The raw survey data: https://www.nature.com/news/polopoly_fs/7.36742!/file/Reproducibility%20Survey%20Raw%20Data.xlsx.
3. The survey questions: https://www.nature.com/news/polopoly_fs/7.36741!/file/Reproduciblility%20Questionnaire.doc

The Task

   a. Critic the graph from both its clarity and aesthetics. At least three from each evaluation criterion.   (15 marks)

   b. With reference to the critics above, suggest alternative graphical presentation to improve the current design. Sketch out the proposed design. Support your design by describing the advantages or which part of the issue(s) your alternative design try to overcome.   (15 marks)

   c. Using Tableau, design the proposed data visualization.   (25 marks)

   d. Provide step-by-step description on how the data visualization was prepared.   (30 marks)

   e. Describe three major observations reveal by the data visualisation prepared.   (15 marks)

Deliverable

- Upload the deliverable for (c) onto Tableau Public (https://public.tableau.com/s/) and the remaining sections (a), (b), (d) and (e) in a MS Word document. You are required to upload the MS Word document onto e-learn and provide the link to your solution in Tableau Public.

Submission date

13th February 2020 (Tuesday), mid-night 11:59pm.

For your eyes only ☺

This makeover exercise have something to do with visualizing uncertainty.

Why It's So Hard for Us to Visualize Uncertainty (https://hbr.org/2016/11/why-its-so-hard-for-us-to-visualize-uncertainty).

Chapter 16 Visualizing uncertainty (https://serialmentor.com/dataviz/visualizing-uncertainty.html) of **Fundamentals of Data Visualization** by Claus O. Wilke.