

Homework 2

For this assignment, your task is to produce a report of the data relating to experiment 1 from Michl (2019b). Much like we did in class, you are to plot the reading times, highlighting the contrast of interest between the different types of idioms – which include metaphors, metonomies, and literal idioms – as well as the contrast between control expressions and idiomatic expressions. In addition to the reading time data, you should report on the compositionality ratings, which are a separate measure introduced in the study. In total, your report should contain at least two graphs, presented in this particular order:

- Graph 1 - Compositionality ratings (graph - 40 points; description - 10 points);
- Graph 2 - Reading times (graph - 40 points; description - 10 points);
- Graph 3 - Reading times plotted in terms of the compositionality ratings, i.e., a correlation plot (BONUS - 0 points).

Even though the document is meant primarily as a visual report of the data, each graph should be accompanied by an appropriate verbal explanation/ textual description of the plotted data (around 1-2 paragraphs). Importantly, you should specify, before anything else, what the hypotheses and predictions of the study are. Then, in your explanations, you should relate the data patterns back to the respective predictions, specifying whether, or to what extent, the predictions are borne out in the data. Remember that you are not performing any sort of inferential statistical tests on the data, which is to say that you are reporting purely descriptive results. Hence, be careful how you phrase your descriptions.

The report should be submitted either as a .pdf or as a .doc(x) file. In addition to the report itself you should submit a copy of the code you used to generate your visualizations. The code should be submitted in a reproducible format such as an R script, an Rmarkdown file, or an HTML file with visible R code. The R code will **not** be graded. Upload your files to Stud.IP as a single .zip file. The .zip file should be named > homework2_InitialSurname.