Cognition Online Lab

Lab 3

Visual Short Term Memory (VSTM)

This week we read a classic scientific article, run the VTTM task, draw a figure based on the VSTM task results and write a Method and Results section. Please do the following:

- Read Luck & Vogel (1997) paper, paying attention to the points mentioned on slide 40:
    1. The specific task they used to study VSTM. They called this the "sequential comparison task." We'll be using it too.
    2. The main result obtained when they "compare memory for simple features with memory for objects defined by a conjunction of features". You can find the main result described in the text of the article (p 280, left column, near the top) and also in **Fig. 1c**.
    3. The "important implications" mentioned by Luck & Vogel for their results. (see paragraph beginning on page 280 and extending to page 281).
- Follow the instructions on how to run the VSTM task
- Write a Method section as explained in the slides. For the formatting, please refer to the Mathod_Results_APA_style.pdf
- Make a figure based on your data. Refer to the video: https://tinyurl.com/VSTM-figure

  IMPORTANT: When you're finished, save your graph as an Excel workbook (not a .csv file, or you will lose your graph!!!). Double-check to make sure your file opens and displays the graph properly before submitting!

- Write a Results section. This time, the Results section is very simple: you will start by mentioning the DV, then describe which statistic you calculated. In this case we have only a summary statistic, the percent correct. Then describe your results, while referring to the figure you draw. Include the figure together with a caption. For formatting and structure please again refer to Mathod_Results_APA_style.pdf
- ADDITIONAL QUESTION: Do you think your results confirm or not Luck and Vogel's findings? What limits working memory capacity, the number of features or the number of objects?

- Please submit your answers in the Assignments folder "Lab 3" as "FirstnameLastname_CogLab_Lab3_Method" and "FirstnameLastname_CogLab_Lab3_Results"