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[Author Name(s), First M. Last, Omit Titles and Degrees]

[Institutional Affiliation(s)]

Author Note

[Include any grant/funding information and a complete correspondence address.]

Abstract

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[Heading 3]. [Include a period at the end of a run-in heading. Note that you can include consecutive paragraphs with their own headings, where appropriate.]

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# Experiment 1

In the Experiment 1, we tested the validity and the reliability of the Multi-Items Rearrangement measurement. The experiment is separated into two blocks. The first block employed the Multi-Items Rearrangement measurement to measure the similarity between abstract faces. The second block used the Paired comparison measurement to validate the result acquired from the Multi-Items Rearrangement measurement.

## Method

Participants. Ten students recruited from University of Zürich. Participants were rewarded with course credits or 30 Swiss Francs after completed the experiment.

Materials. Both Multi-Items Rearrangement task and the Paired-Comparison task shared the same set of stimuli. Color patches are used in the practice trials. The colors are randomly selected from all the possible colors in the 24 bits color space. Abstract faces are used in the experiment trials. The faces are varied on four dimensions: the width between eyes, the height of eyes, the length of nose, and the position of mouth, with each dimensions have two possible configurations. The faces are shown in the Figure 1.

Procedure. Experiment 1 is consisted of two identical sessions, and the sessions are carried in two different days. Each session contains two blocks. The first block is the Multi-Items Rearrangement measurement task, and the second block is the Paired comparison measurement task. On average, each session takes about 45 minutes.

Multi-Items Rearrangement Task. The Multi-Items Rearrangement task consists of two practice trials and 12 experiment trials. In each trials, 8 items were randomly scattered on the screen without overlapping. Participants were instructed to rearrange the items by using mouse to drag-and-drop the items, and the distance between items should reflect the similarity between the items, where the farther distance between items indicates the more dissimilar between items. After participants were satisfied with the arrangement of the items, they can press space bar to continue to next trial. Participants were instruction to take as long as they want to rearrange the items.

The Multi-Items Rearrangement task requires 6 trials to complete the similarity matrix between 16 items. We repeated the procedure twice in order to obtain more accuracy measurement of the similarity matrix. The items were rearranged into different subgroup for the second repetition.

Paired-Comparison Task. The paired comparison task consists of 4 practice trials and 240 experiment trials. In each trial, two items were presented on the screen with a 9 points scale below the items. Participants were instructed to rate the similarity between the two items by clicking on the 9 points scale, with 1 to be the most similar, and 9 to be the most dissimilar. After the similarity is selected, a blank screen appeared for 1 second and was followed by the next trial. Participants were instructed to take as long as they want to complete the trial.

The Paired-Comparison task requires 120 trials to complete the similarity matrix of 16 items. We repeated the measurement twice in order to increase the accuracy of the similarity matrix.

## Results

# Experiment 2

### Method

## Results

References

Last Name, F. M. (Year). Article Title. *Journal Title*, Pages From - To.

Last Name, F. M. (Year). *Book Title.* City Name: Publisher Name.

Footnotes

1[Add footnotes, if any, on their own page following references. For APA formatting requirements, it’s easy to just type your own footnote references and notes. To format a footnote reference, select the number and then, on the Home tab, in the Styles gallery, click Footnote Reference. The body of a footnote, such as this example, uses the Normal text style. (Note: If you delete this sample footnote, don’t forget to delete its in-text reference as well. That’s at the end of the sample Heading 2 paragraph on the first page of body content in this template.)]

Tables

Table 1

[Table Title]

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| Row Head | 123 | 123 | 123 | 123 |
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Figures

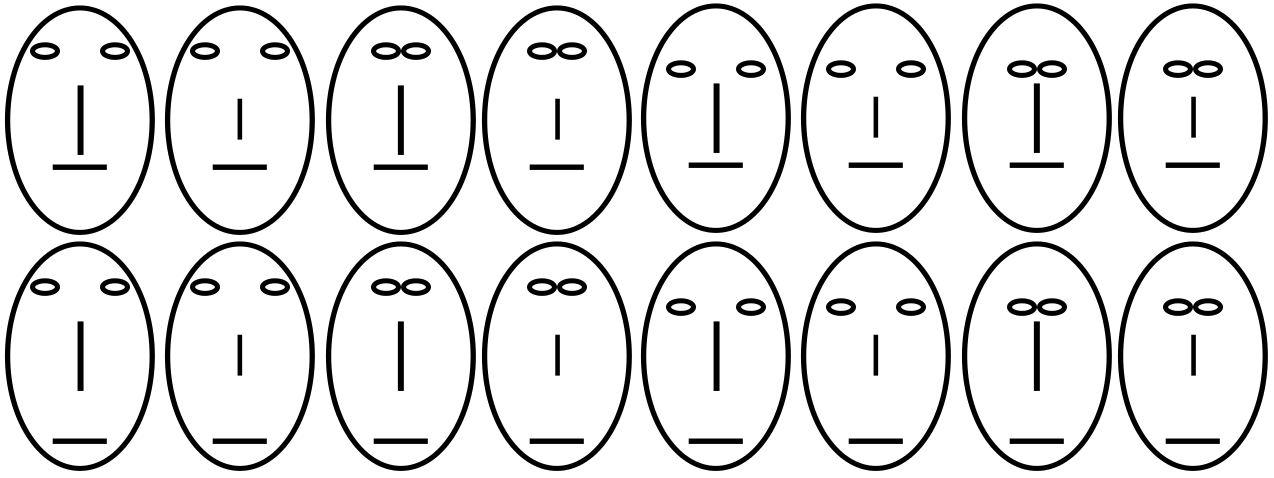


Figure 1. The material used in the Experiment 1. The faces are constructed with four dimensions: the width between eyes, the height of eyes, the length of nose, and the position of mouth.

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