Proposed three-dimensional designs for the color wheel to help blind persons understand and matching colors of their clothes

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Abstract:
The most obvious thing about blind persons is that they feel it all with their hands; something flat means nothing to them. After a questionnaire sheet that 70 blind girls replied about difficulties faced them when matching the color of their clothes. The answer was for the first time 100% of them need help particularly in color matching, and 90% of them are care about good appearance and color matching. They may get some help to find out what this color is, but they need to learn about the color wheel and color scheme details to mix and match the colors of their clothes without help. Five different 3D color wheels were designed for this purpose using cardboard and glossy paper. All data were written in Braille on self-adhesive transparent paper. The effectiveness of these 3D color wheels has been confirmed by providing blind girls with different colored clothing pieces and they were able to put together matching outfits based on their new knowledge about colors.

The Objectives of this study has been; to study how blind persons choose their clothes (as design and colors). And what is their knowledge about colors through a questionnaire sheet, answered by number of blind girls. Also it was intended to provide a design of five different 3D color wheels. All data on those 3D color wheels were written in Braille. Then those 3D color wheels to be used to describe the colors and their tints, value (tones) and shades for the blind students and how to construct color scheme in harmony. Methodology: Experimental study and survey method. Results: The study has resulted in the raising the blind girl’s self-confidence because they would be able to mix and match their clothes colors by themselves.

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