Christian's Notes and References

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Accessible Maps for the Blind: Comparing 3D Printed Models with Tactile Graphics

Citation

(Holloway, Marriott, and Butler 2018)

Brief Summary

Several studies were done on the effectiveness of Orientation and Mobility (O&M) training for people with blindness and severe vision impairment using 3D models. These studies seem to suggest that 3D models are preferred and more effective than the tactile equivalents for 2D graphics. 3D models can also be enhanced using interactive audio labels.

MAIN STUDY: COMPARING TACTILE MAPS & 3D PRINTS

- 3D models were preferred

  > Preferred format by map type, as revealed through use (neighbourhood map) or self-reporting (park maps and station plans)

map	tactile graphic	both	3D model
neighborhood	5	2	9
park	3	0	13
station	4	1	11

References

Holloway, Leona, Kim Marriott, and Matthew Butler. 2018. "Accessible Maps for the Blind: Comparing 3d Printed Models with Tactile Graphics." In *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems*, 1–13. CHI '18. New York, NY, USA: Association for Computing Machinery. https://doi.org/10.1145/3173574.3173772.