

Yoshimoto Cube Kids Furniture

H. Lutz, A. Avila, D. Morgan

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Abstract

This presentation discusses the design and production of a modular, folding polyurethane foam and vinyl structure as a piece of furniture for children. The structure was inspired by the motion of a kid's toy known as the Yoshimoto Cube. Many different combinations were experimented with to see what kinds of structures could be built within the specific motion pattern that the Yoshimoto Cube has.

After many iterations of scale and exploration of materials, the cube was able to be manufactured by sewing vinyl casings for 4" upholstery foam. Considerations included: individual unit size, durability, structural space created in its six resting states, play value, safety, and weight.

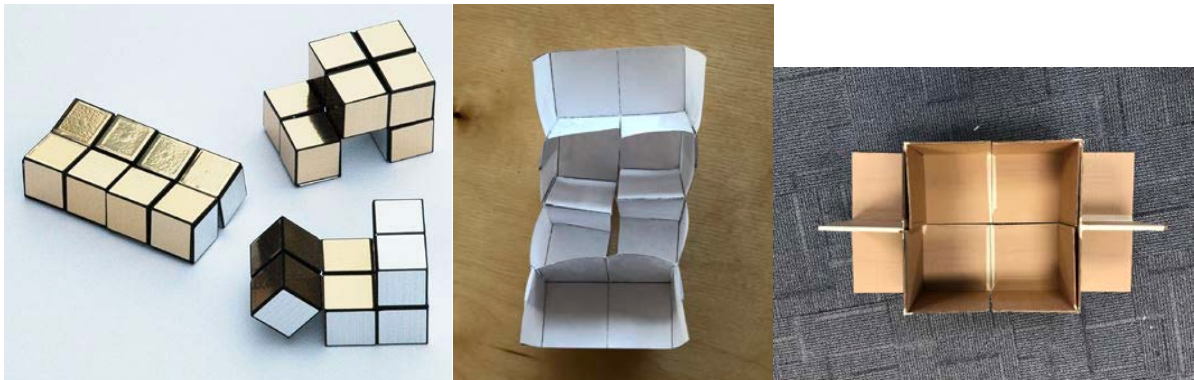


Figure 1: Yoshimoto Cube and an early iterations

The cube was modified so that the individual unit is open on three sides to allow for open spaces for sitting and playing.

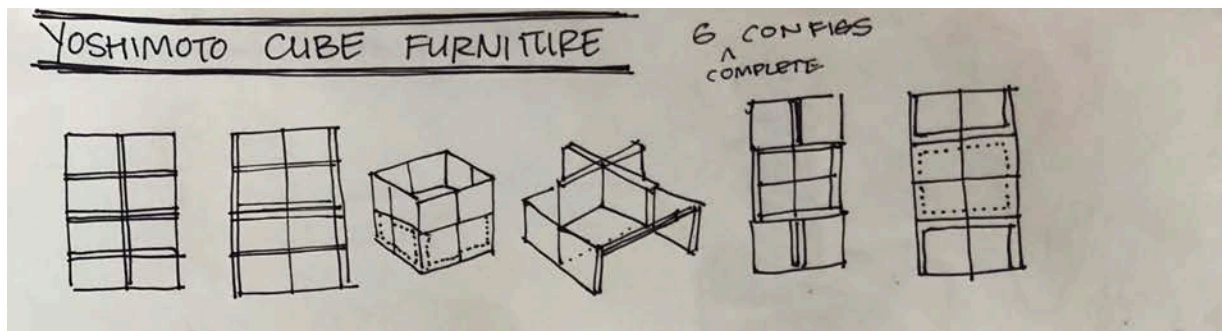


Figure 2: Six configurations of the Yoshimoto Cube

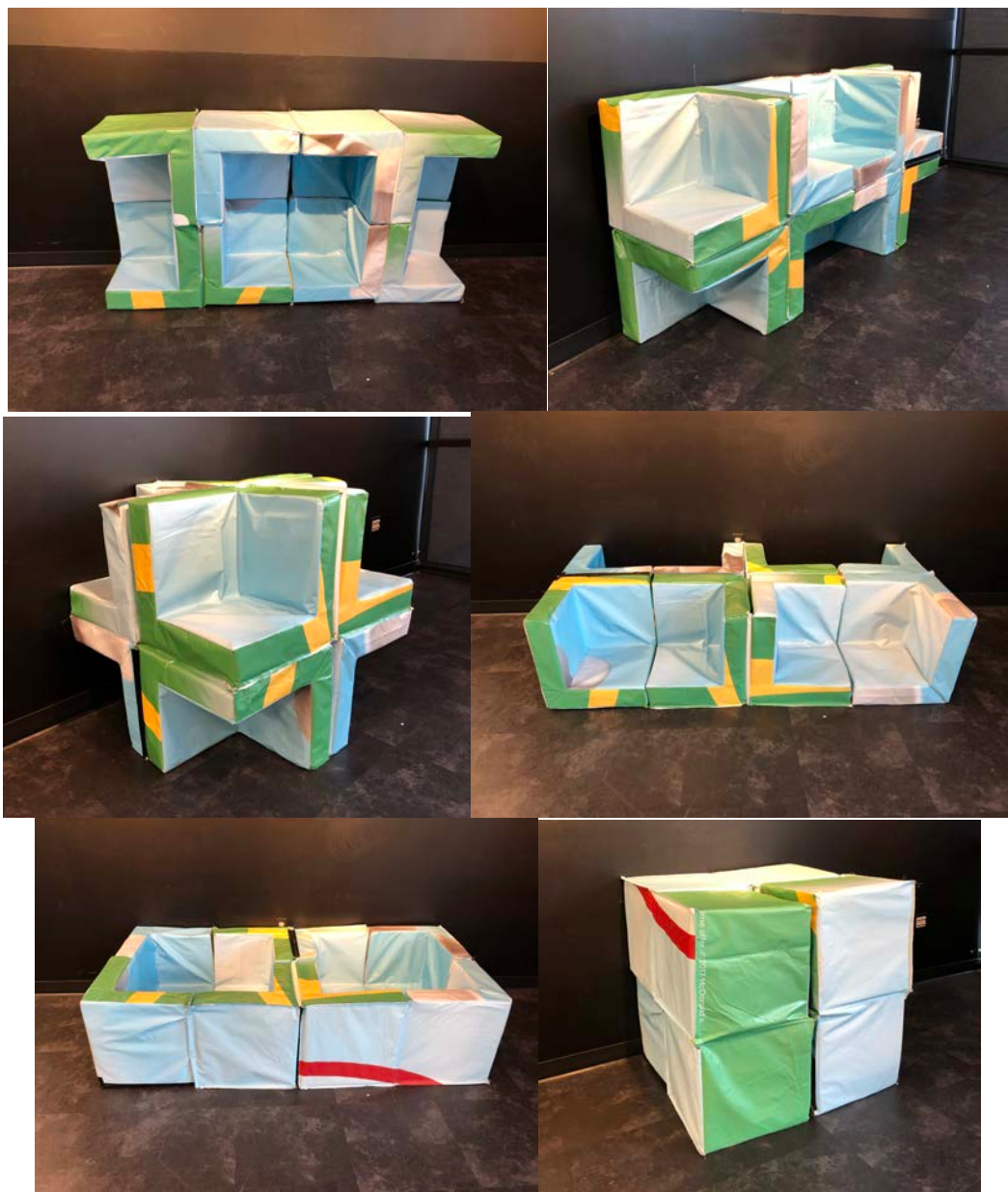


Figure 3: The six configurations of the final form