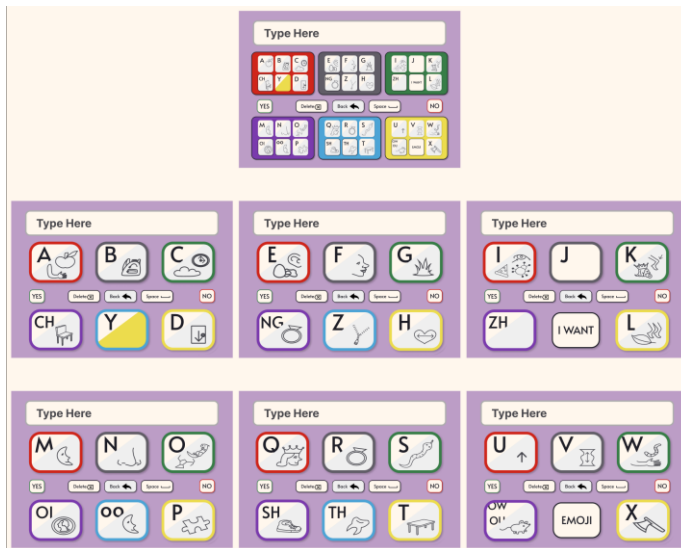# ComBoard

Lead UX Research & Design · May 2024 - Oct 2024 · Figma

Solo end-to-end

980%
Usage increase

5/5
User rating

Problem

Existing eye-tracking devices are bulky, induce eye strain due to tiny targets, and limit expressive spelling.

Solution

A responsive digital keyboard that is gaze-friendly, cluster-based, and fully personalizable (movement patterns, target sizes, icon aids).

Process Highlights

- Recurring empathy interviews & competitive AAC audit.

- Cluster-letter layout + predictive text to cut dwell time.

- Custom minimalist icons to pair phonemes.

Takeaway

Iterative co-design with the student proved that minimal motion + clustered keys dramatically reduced cognitive fatigue.

View full case study →