

Glass Keyboard Usability Pilot Study

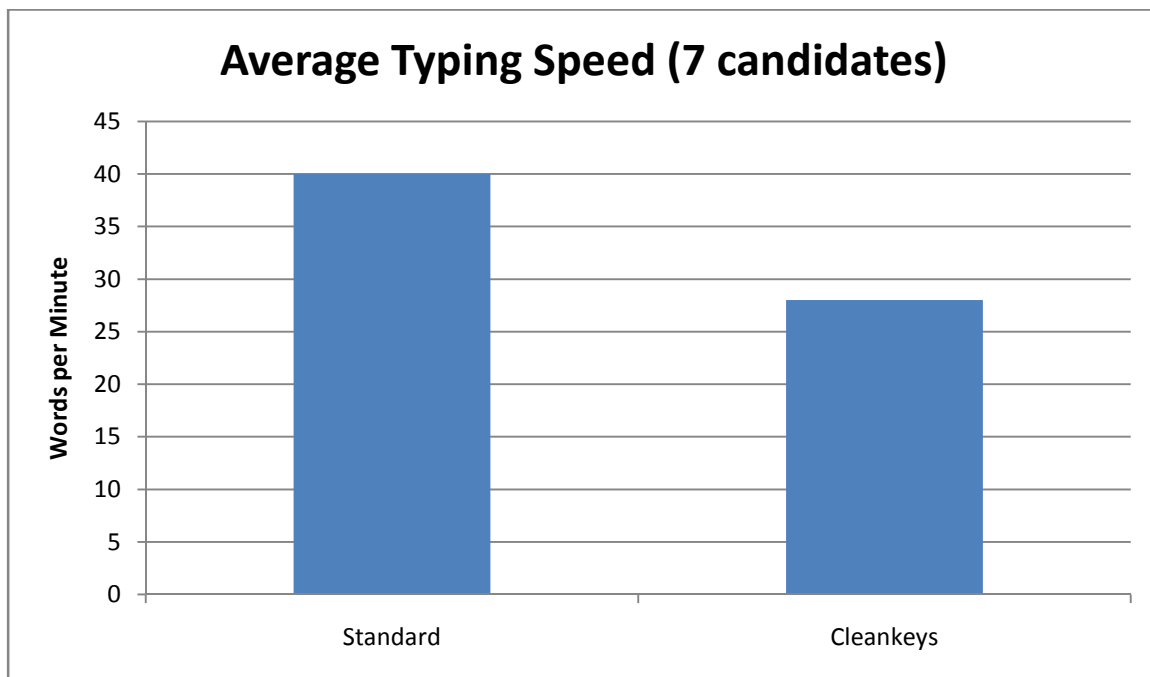
Conducted by the computer ergonomics consulting firm William Dean – 9/22/07

TEST PROTOCOL

Candidates were given 10 practice exercises on the glass keyboard, typing: “The quick brown fox jumps over the lazy dogs.” repeated three times. This was intended to help them through the learning curve of using the glass keyboard. The exercise provided an average of 10 minutes of learning time altogether.

Candidates were then given three one-minute typing speed drills, using the java program provided on www.typingtest.com using a regular keyboard. This was to measure their regular typing speed. Candidates were then given 5 one-minute typing speed drills on the glass keyboard, using www.typingtest.com

RESULTS



SUMMARY

For “hunt-and-peck” typists, whose typing speed was <25wpm, there was no notable difference in speed or error rate. For touch typists whose typing speed was >25wpm, the glass keyboard caused a reduction in typing speed from 10 - 50% (the faster the typing speed, the greater the percentage in speed reduction). The overall average reduction in typing speed was 32%.

OPERATORY CYCLE TIME

Consider the average amount of typing per patient in the operatory is approximately 20 seconds per patient. Also consider the average time to properly disinfect an operatory keyboard is well over 3 minutes, while it takes less than 10 seconds to disinfect Cleankeys.