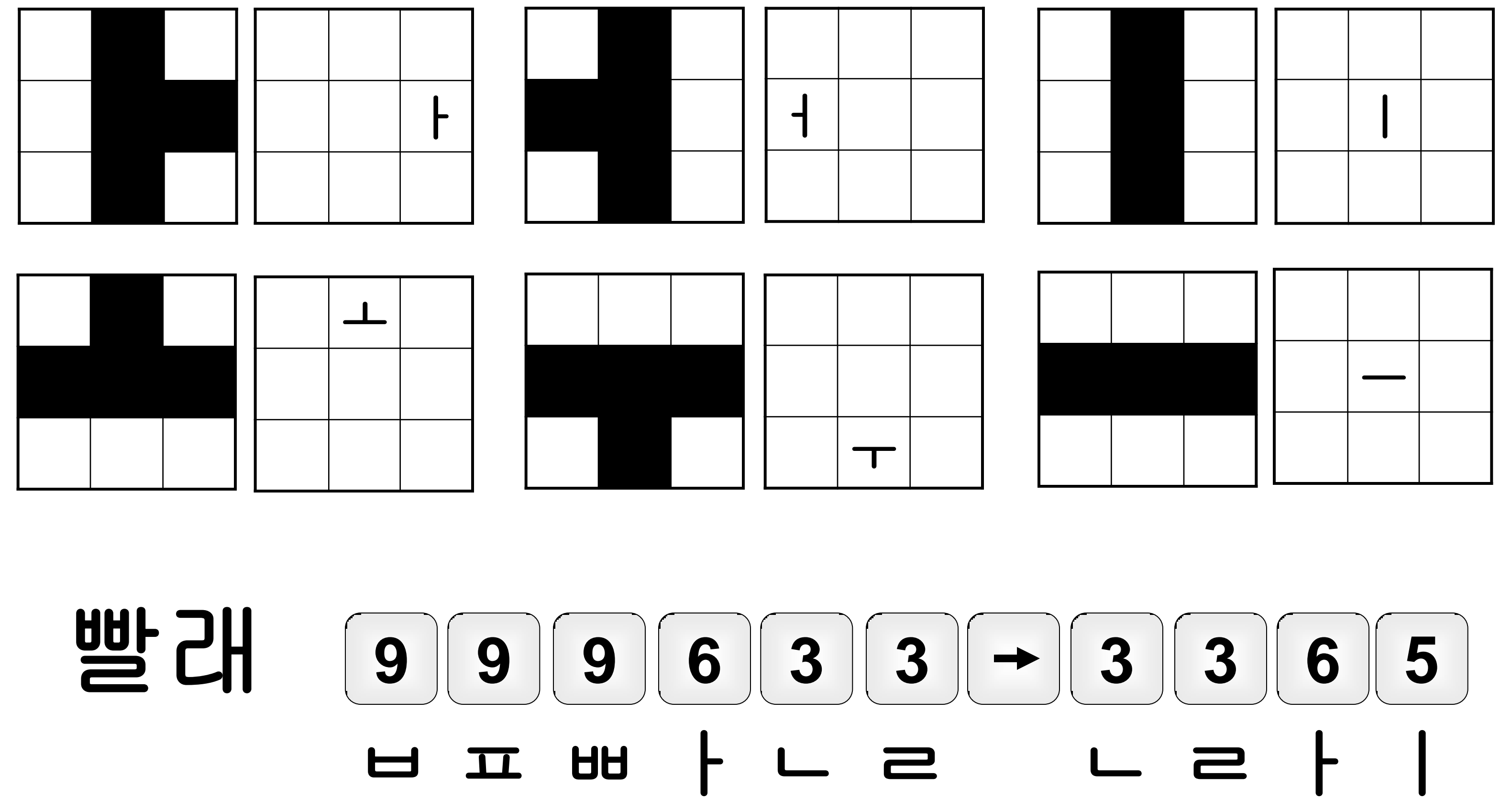
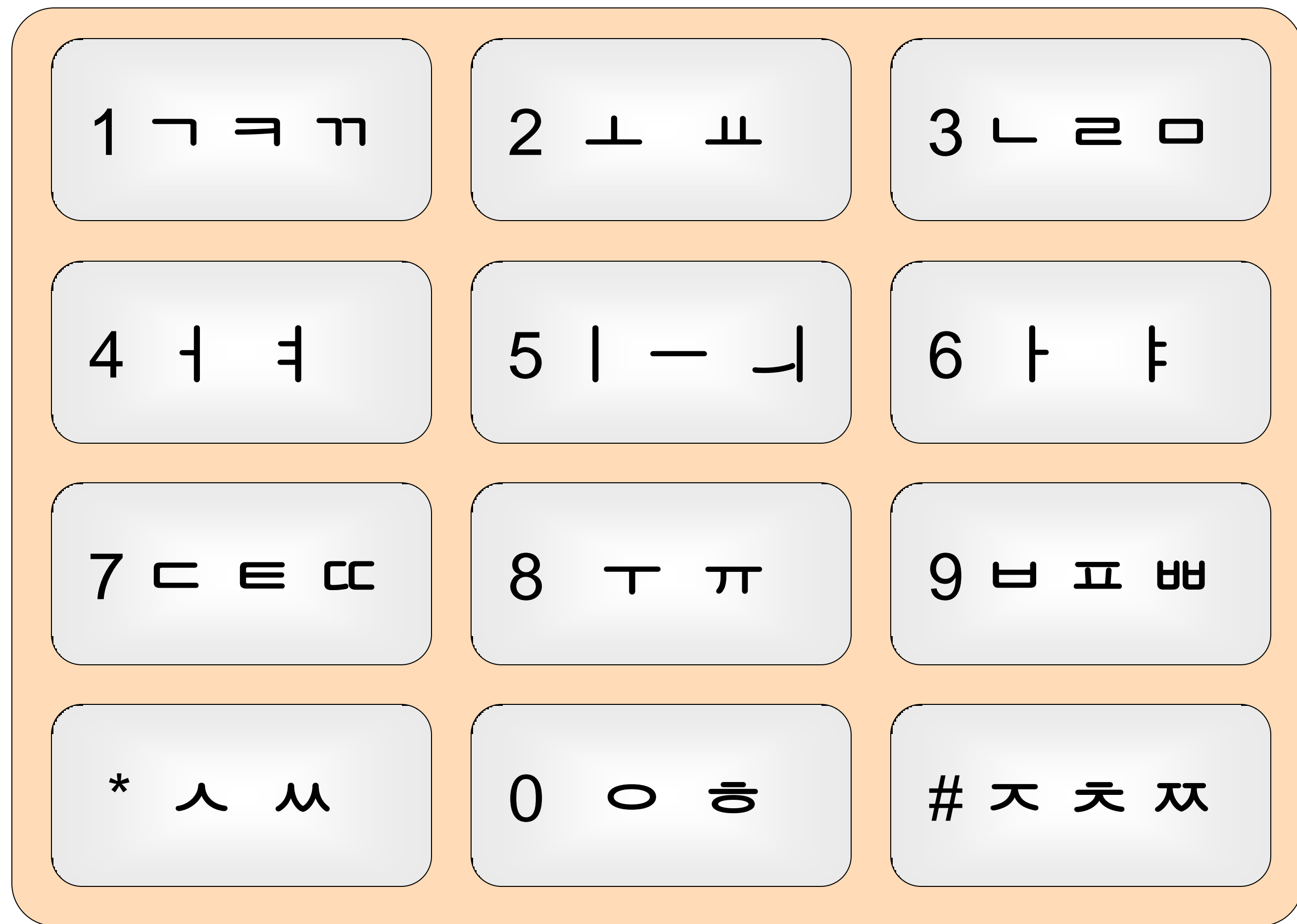


Proposed Design



Goals:

- promote recognition
- facilitate faster learning
- reduce number of key strokes per letter
- vowels arranged based on shape
- consonants arranged similar to Chon-ji-in

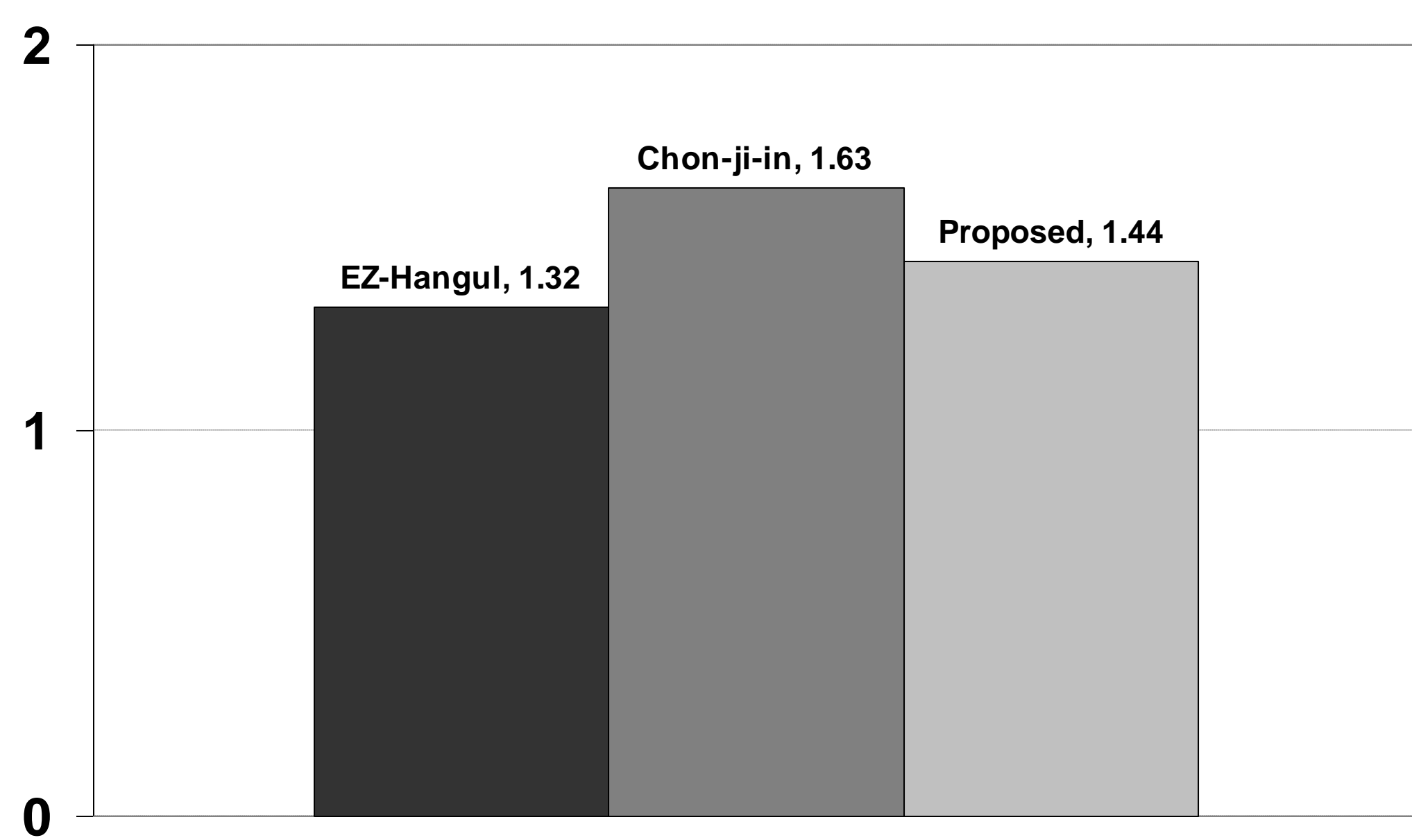
Key Strokes Per Letter

| | vowels | | | | | consonants | | |
|------------|--------|----|---|---|---|------------|---|---|
| | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 |
| Proposed | 5 | 10 | 6 | - | - | 7 | 6 | 6 |
| Chon-ji-in | 2 | 5 | 8 | 4 | 2 | 7 | 7 | 5 |
| EZ-Hangul | 4 | 8 | 6 | 2 | 1 | 6 | 7 | 6 |

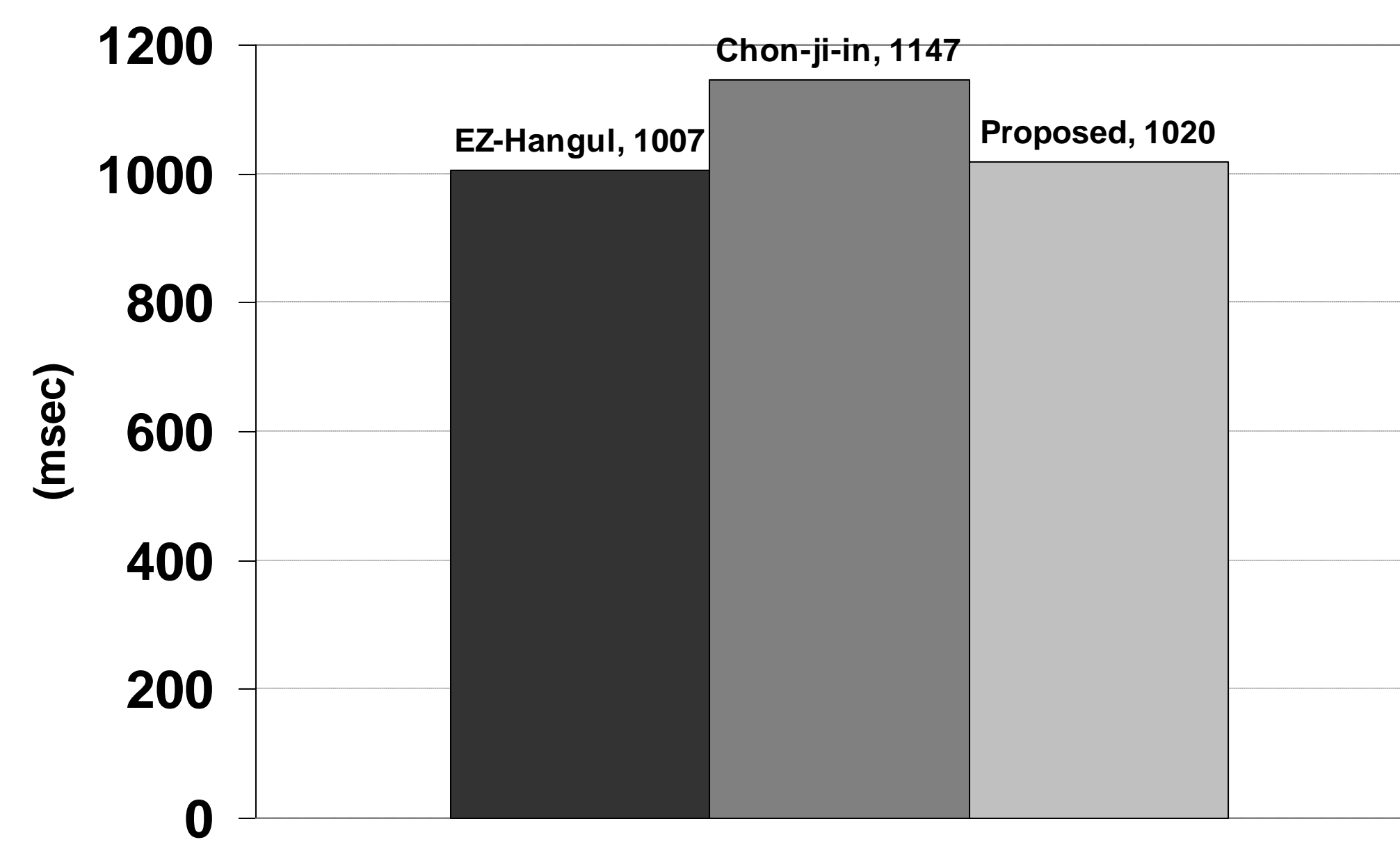
Analytical Evaluation

- input text has 90314 words, 251556 syllables, and 714336 letters

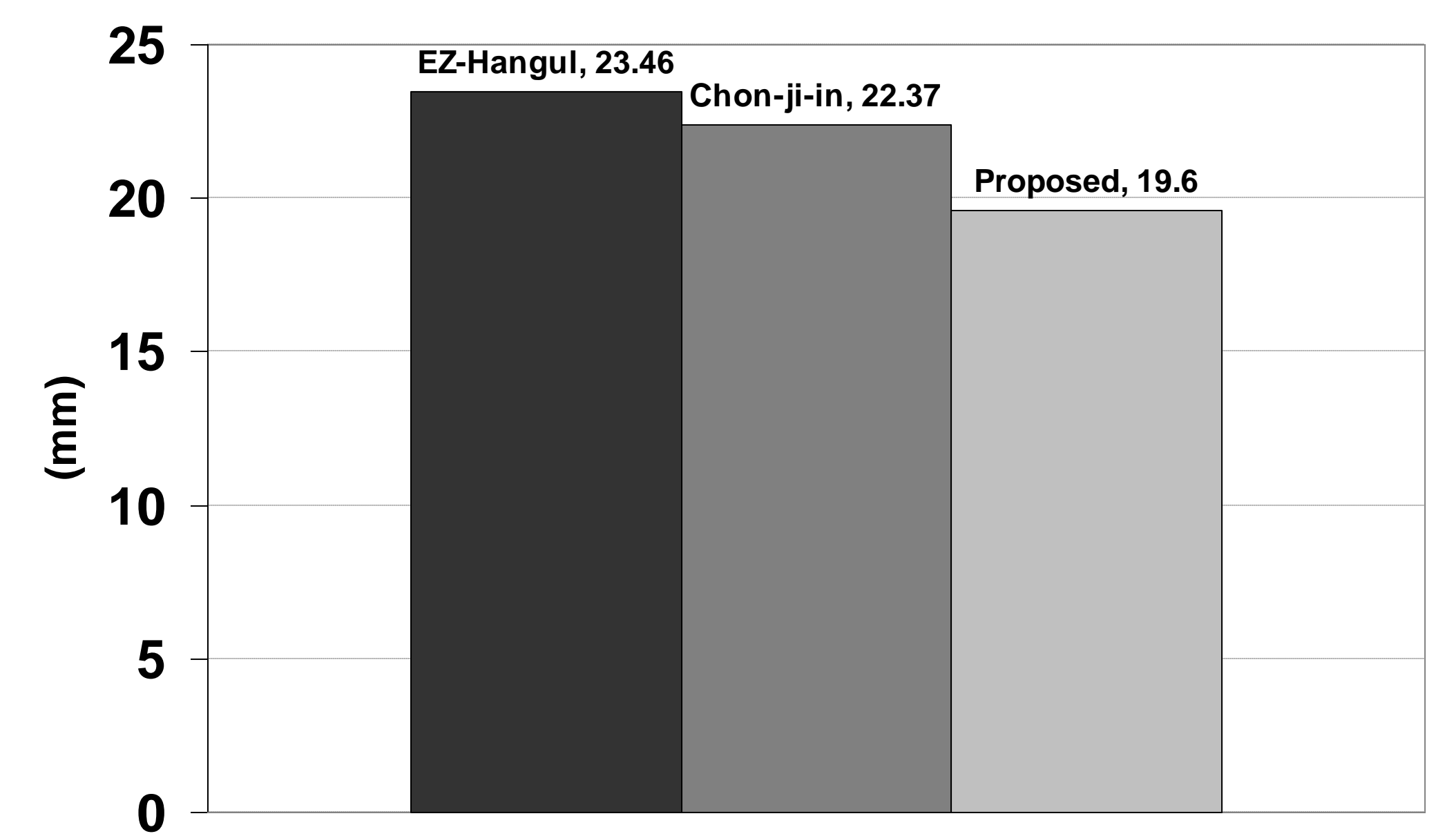
Key Strokes Per Letter



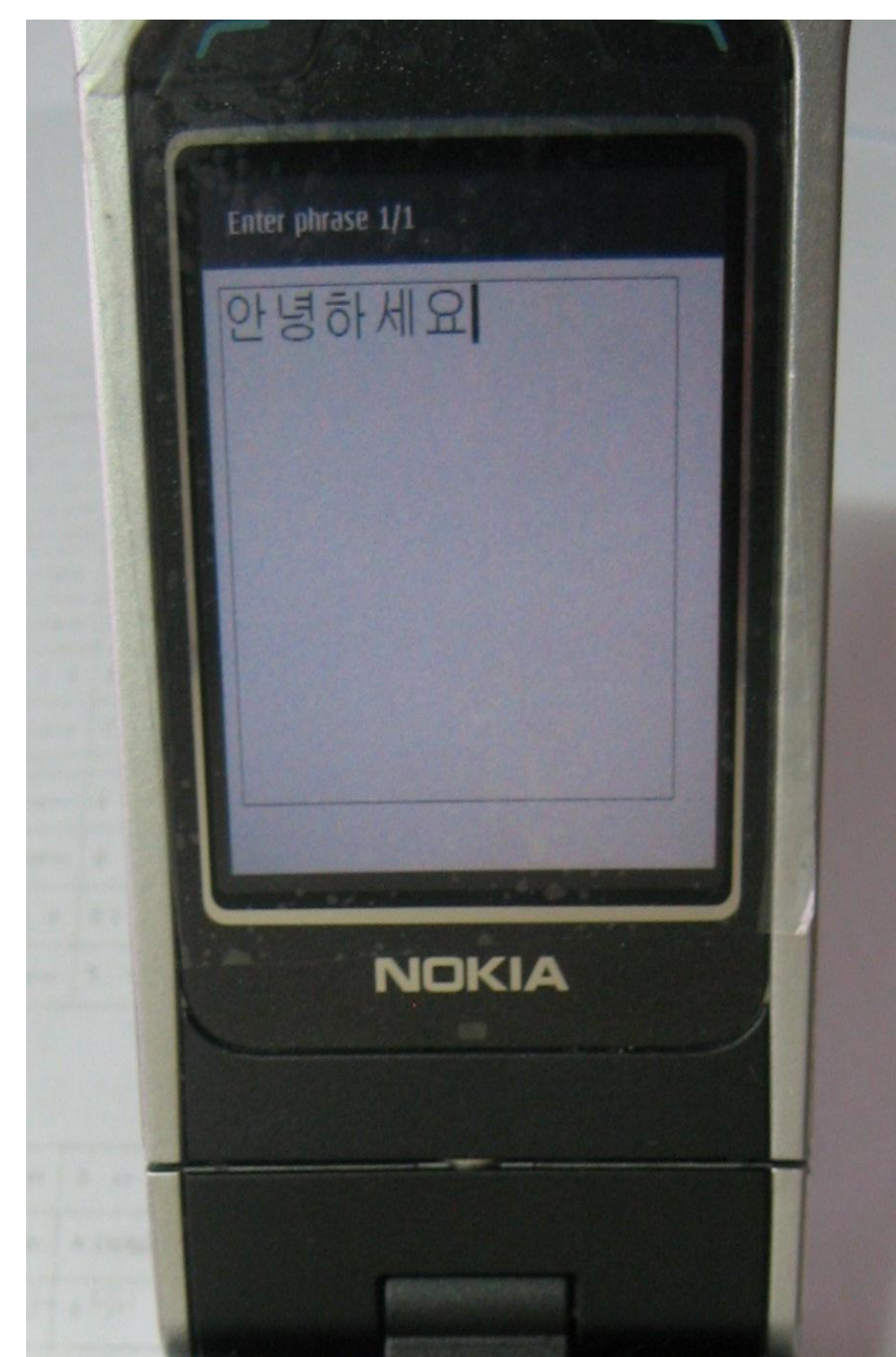
Fitt's Predicted Move Time Per Letter



Finger Travel Distance Per Letter



Pilot Study



Predicted vs Actual Time

