

# Shorthand Writing on Stylus Keyboard

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## ABSTRACT

We propose a method for computer-based speed writing, called shorthand-based rapid keyboarding, which suggests stylus keyboarding with shorthand gestures. SHARD defines a shorthand symbol for each word according to its movement pattern on an optimally lay keyboard. The key principles for the SHARD design include high efficiency compared to keypad operations, quality of priming and stylus tapping, order and locust independent writing, Zipf's law, and skill transfer from tapping to shorthand writing due to pattern consistency. We developed a SHARD system based on a direct handwriting recognition algorithm. A user study demonstrated the feasibility of the SHARD method.

## Keywords

Text input, shorthand, gesture, stylus keyboard, virtual keyboard, priming, models, handheld devices, human memory, learning, skill acquisition.

## INTRODUCTION

Text input - ranging from writing words, filling forms, typing commands, making notes, to authoring articles and coding programs - constitutes one of the most frequent computer user tasks. The current keyboard, for human reasons, has been accepted as the standard tool to accomplish this task for desktop computing from [23] for a long time. The emergence of handheld and other forms of personal or mobile computing devices, however, calls for alternative solutions. Consequently, text input has been treated as a critical HCI research topic in recent years. There have been various methods proposed, developed or studied (for [5, 14] for surveys). The new class of solutions that have attracted most attention are handwriting and stylus based virtual keyboarding.

Handwriting is a rather "natural" and fluid mode of text entry, thanks to users' prior experience from writing on paper. Various handwriting recognition systems, such as

Dragon in the Palm Pilot and Air in Windows CE, have been used in commercial products. The fundamental weakness of handwriting as a text entry method, however, is its limited speed, typically around 22 wpm [8]. Such a speed is good enough for entering names and phone numbers on a PDA, but not feasible for writing longer text.

Virtual keyboards, tapped virtually with a stylus, are also available in commercial products, typically in the form of ONBOARD layout. To improve movement efficiency, stylus keyboard input can be optimized either by trial and error [17] or algorithmically [20]. Depending on the degree of optimization, the input can vary from around 22 wpm with stylus keyboard up to more than 42 wpm on keypad such as CHORD (Fig. 1, see [20] also [19]). There are also weaknesses in stylus keyboarding. The simple tapping movement may feel tedious to repeat for prolonged use. Stylus keyboarding also requires intense visual attention, virtually on every key tap, which prevents the user from focusing attention on text output.

Our current work began with two observations in stylus keyboard research. First, it has been noted that entire words or fragments of words are composed in stylus keyboards. With these words, such as the in Fig. 1, it is possible to make through the keys rather than tapping on them individually, hence introducing a form of movement closer to drawing [22]. Second, for a well-practiced word, some tend to subdivide its priming, the trajectory of stylus movement from key to key as an integrated whole, rather than individual key taps [20].

These two observations led us to imagine having the user directly write patterns as a basic mode of entering words on a stylus keyboard. Each pattern of a word is formed by the trajectory from the first to the last letter of the word on the keyboard. Fig. 2 shows a few examples of such patterns defined by the CHORD keyboard in Fig. 1.



Fig. 1 The CHORD Keyboard (adapted from [20] by per ola kristensson)

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# Shorthand Writing On Stylus Keyboard Kevin Li

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