

# INTERFACE DESIGN - KEYBOARD



# TIMELINE

*A brief look into the various ways humans have documented throughout the years*



Pre-historic Mesopotamia period 9000 BCE to the start of the historic period around 3000 BCE



First commercial typewriter, the Hansen Writing Ball, invented in 1865 and patented and put into production in 1870

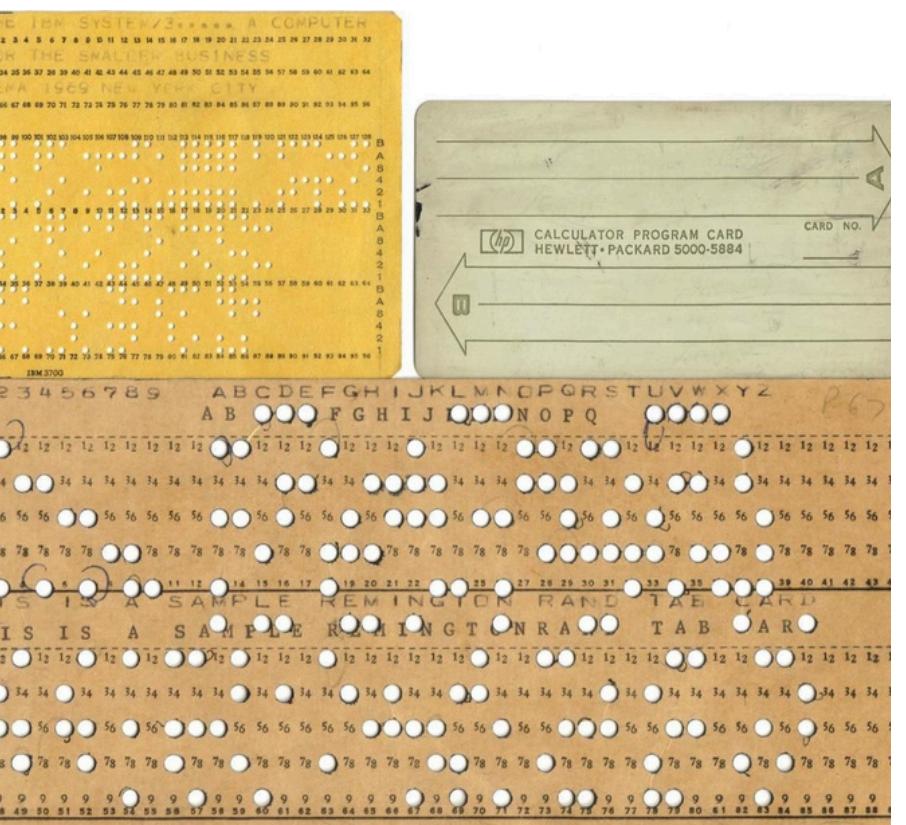


The first commercially successful typewriter and the first with the QWERTY Keyboard.

# TIMELINE



The Underwood 1 typewriter No. 990 was the first to have a typing area visible to the typist before striking a key, enabling viewing and correction of typing in progress.



In 1946, the first computer, ENIAC, was built and data was input using teletype. Cards were punched with keypunches according to teletype input. The punched cards were then analyzed as data using a card-reader.



IBM launched its first PC in 1981, featuring the widely popular Model M keyboard in 1986. The mechanical keyboard provided tactile feedback, accuracy, and comfort, becoming successful for its user-friendly design and high-quality construction.

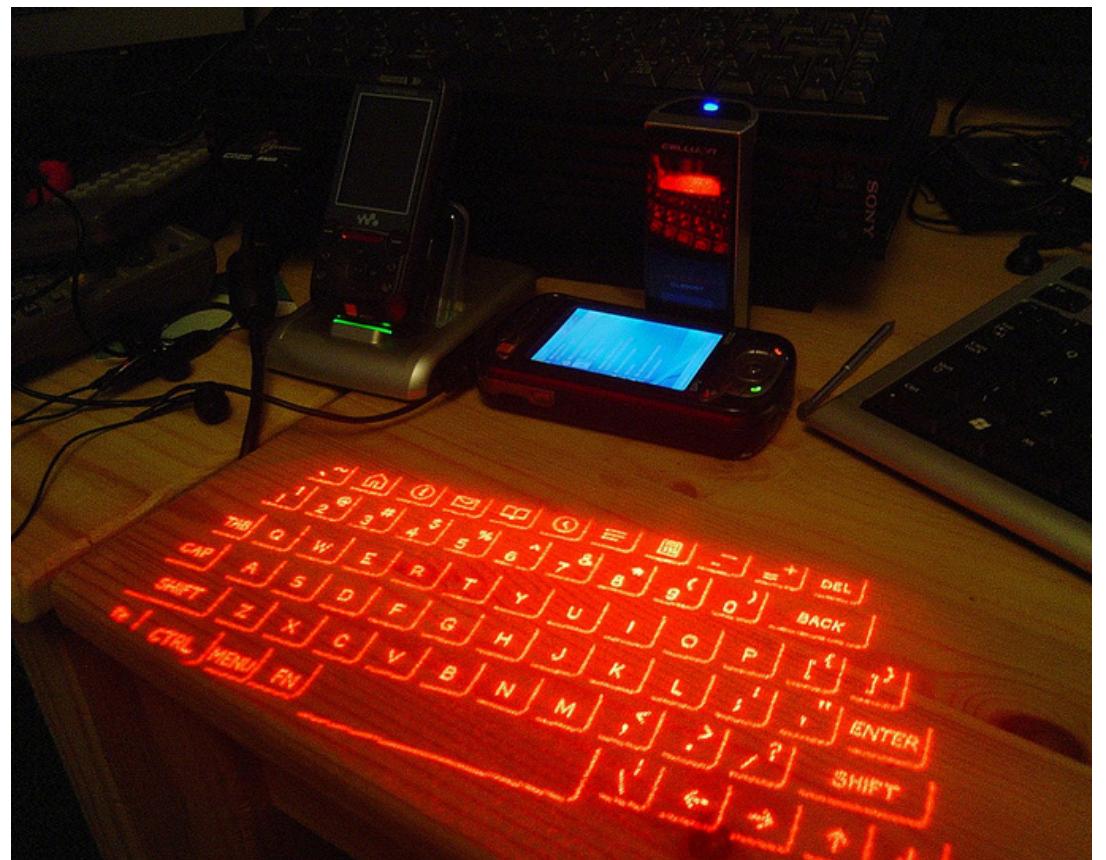
# TIMELINE



In the 1990s, membrane switches replaced mechanical key switches in laptops for being quieter and lighter. Contrasting early Apple mechanical keyboards from 1983 with modern non-mechanical ones from 2010.



Magic Keyboards are wireless Apple keyboards sold with iMac and Mac Pro, available in compact or full-size layouts for different regions, featuring function keys or Touch ID near F12, and offered in various colors.

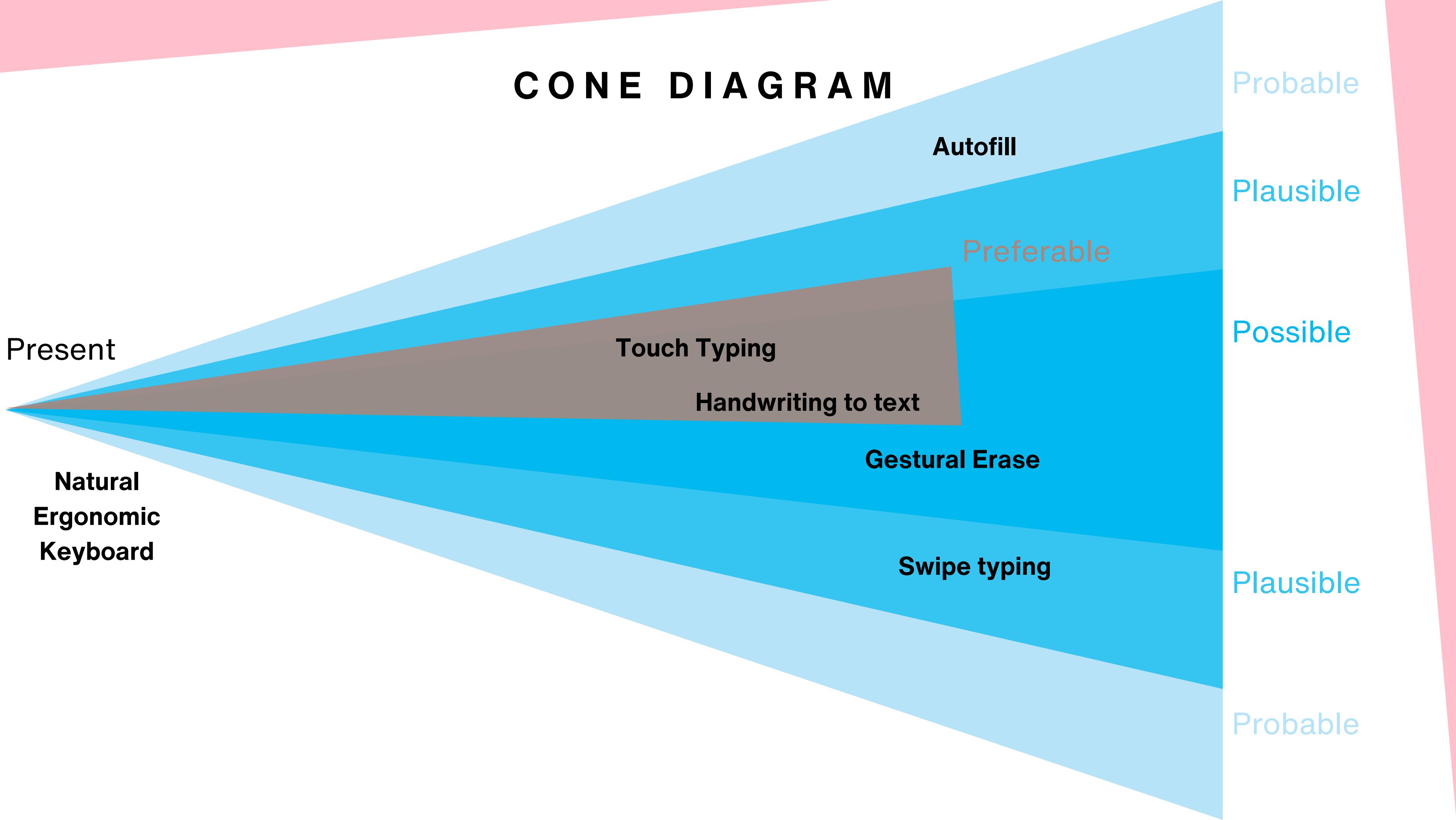


An optical virtual keyboard was invented and patented by IBM engineers in 1992. It optically detects and analyses human hand and finger motions and interprets them as operations on a physically non-existent input device.

# PRINCIPLES OF INTERACTION

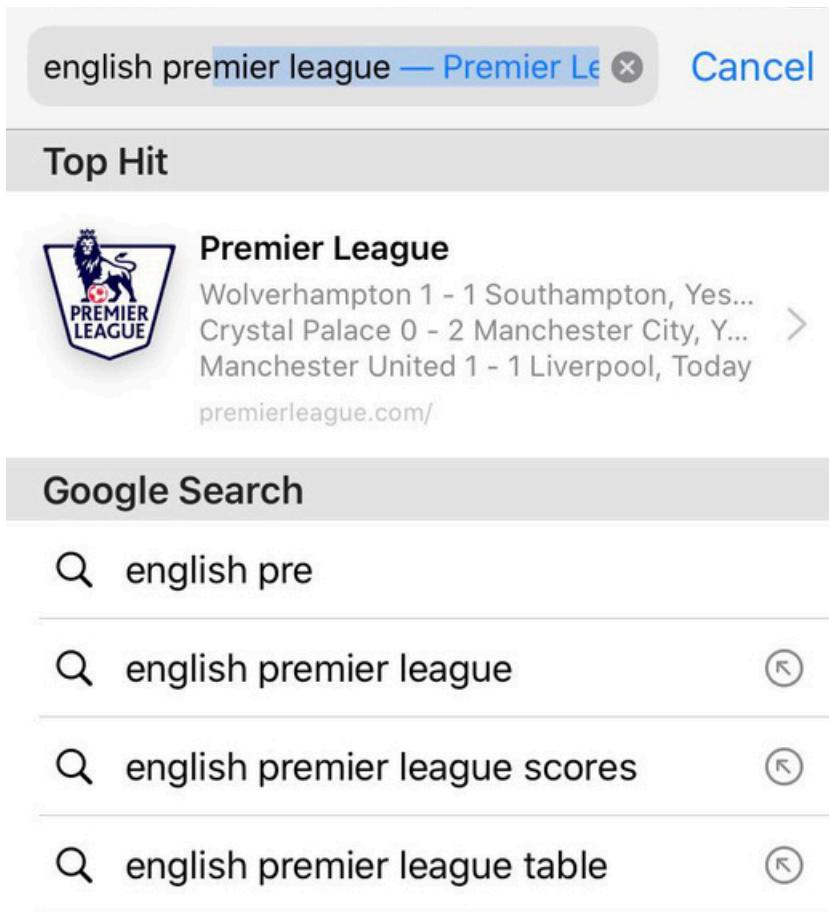


# CONE DIAGRAM



# INTERFACE

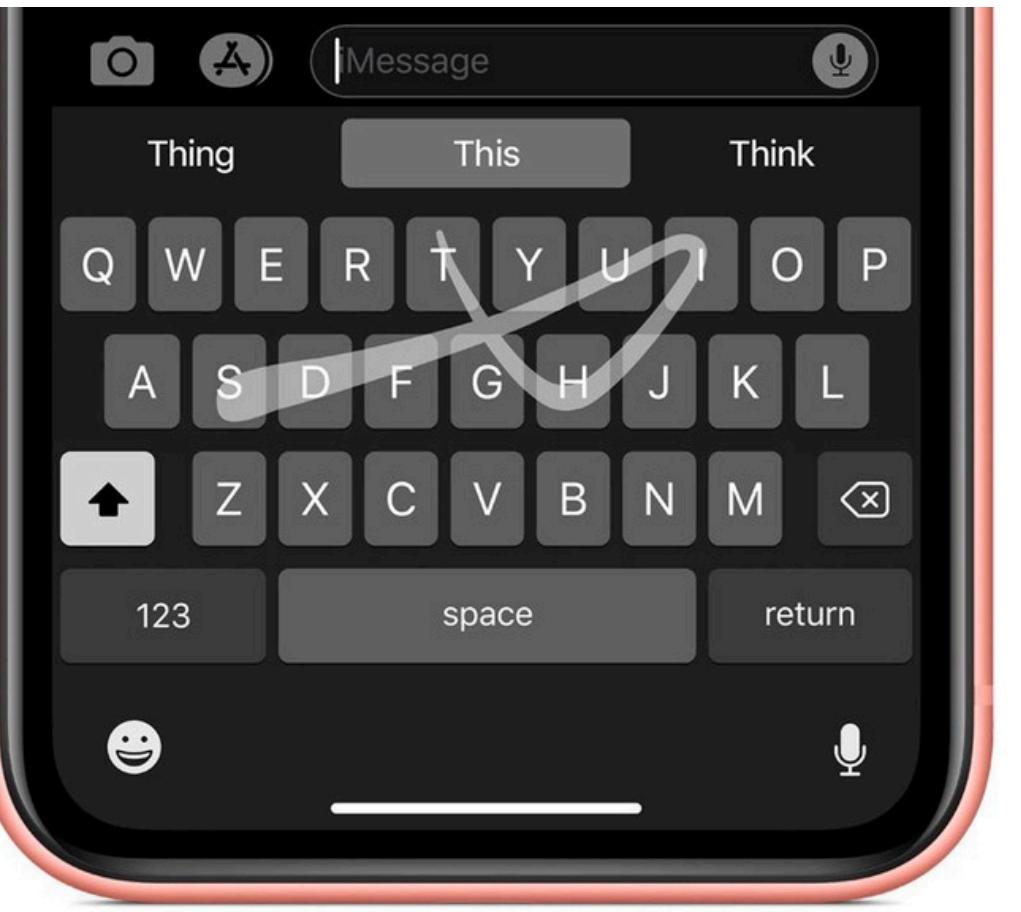
## Autofill



### Autofill – Probable Future

Context: Autofill technology is already well-integrated into our daily lives and is likely to continue evolving. As AI advances, we can expect Autofill to become more accurate and context-aware, further streamlining typing processes.

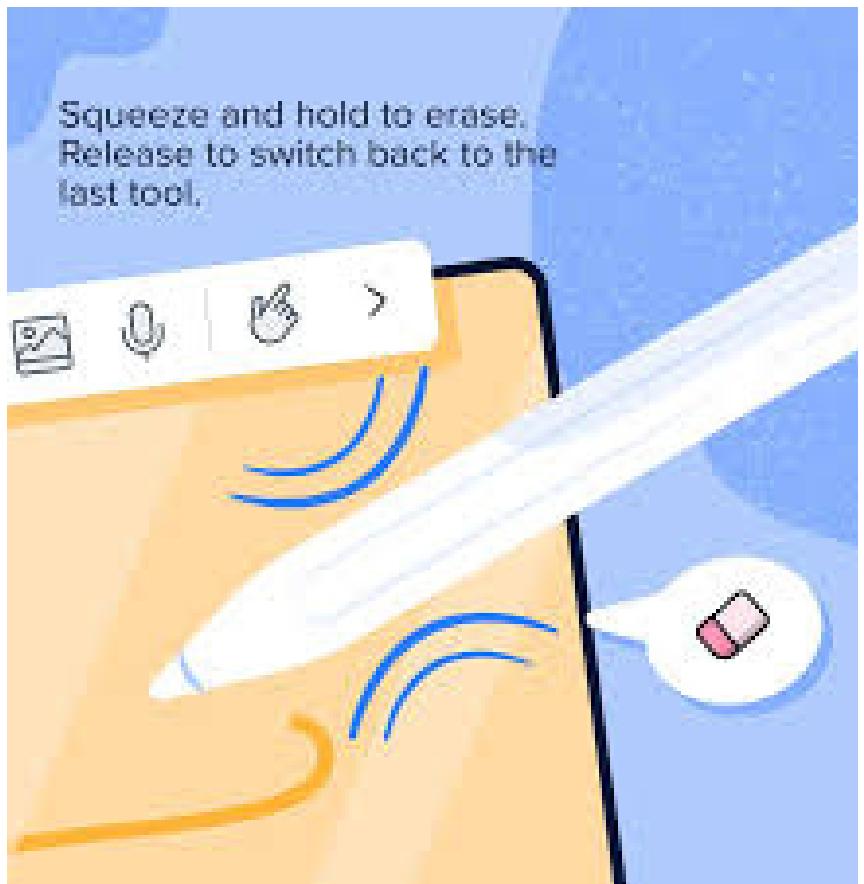
## Swipe typing



### Swipe Typing – Plausible Future

Context: Swipe typing is a common feature on mobile devices but hasn't yet become mainstream for physical keyboards. In a plausible future, this technology could extend to desktop environments, incorporating gestures into standard typing practices.

## Gestural Erase

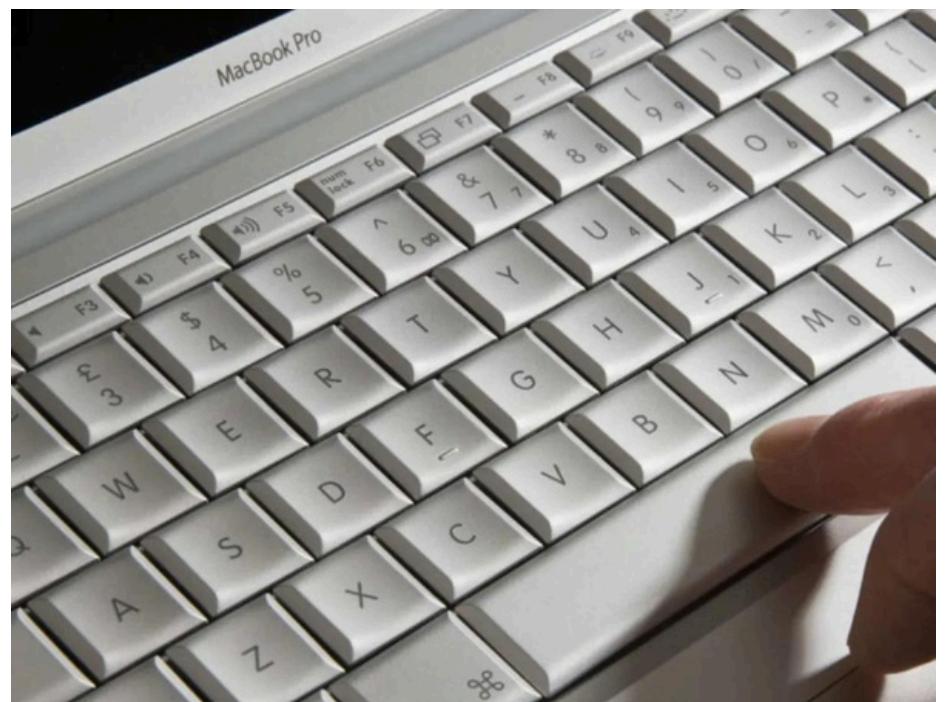


### Gestural Erase – Possible Future

Context: Gestural interactions are emerging, though not yet widespread in typing interfaces. The possible future may see new forms of interaction, like Gestural Erase, gaining traction and replacing traditional text editing methods.

# INTERFACE

## Touch Typing



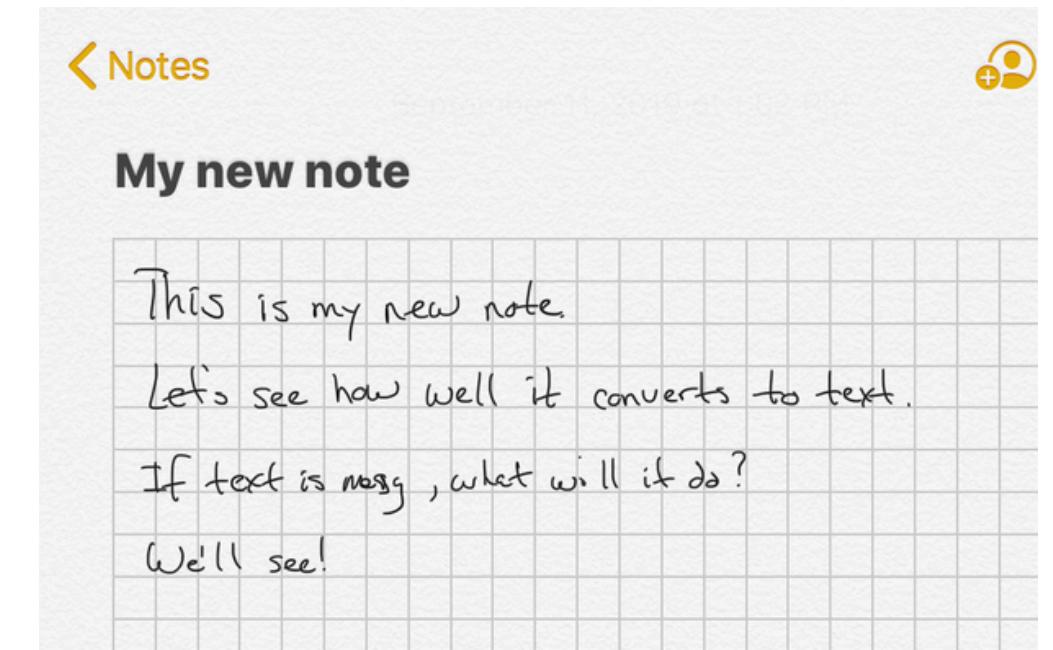
## Camera on Keyboard



Touch Typing Based on Muscle Memory – Preferable Future  
Context: Enhancing muscle memory through adaptive keyboards holds significant potential to reduce strain and increase efficiency. This represents a future that prioritizes user well-being and productivity.

Camera on Keyboard – Plausible to Possible Future  
Context: Integrating cameras on keyboards to track hand movements and facial expressions is still an emerging idea, with significant potential to revolutionize how typing interfaces respond to users' emotional states and contextual needs.

## Handwriting to text



Custom Handwriting – Plausible to Preferable Future  
Context: Inspired by the movie "Her," the idea of custom handwriting brings a personal touch to digital communication, allowing users to express themselves in a more individualized way.

# BIBLIOGRAPHY



## Kinesis (keyboard)

Kinesis is a company based near Seattle that offers computer keyboards with ergonomic designs as alternatives to the traditional keyboard design. Most widely known among these are the contoured Advantage...

[w Wikipedia](#)



## Universal Typewriter Company

Universal Typewriter Co

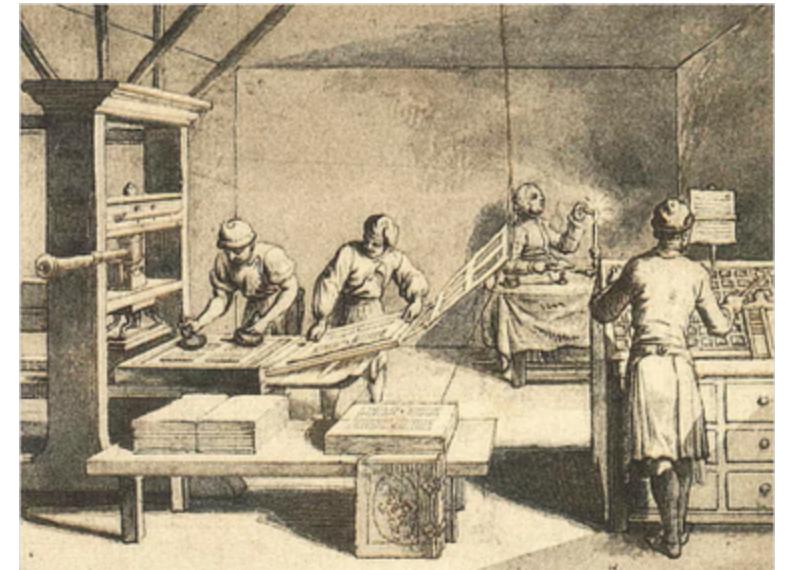
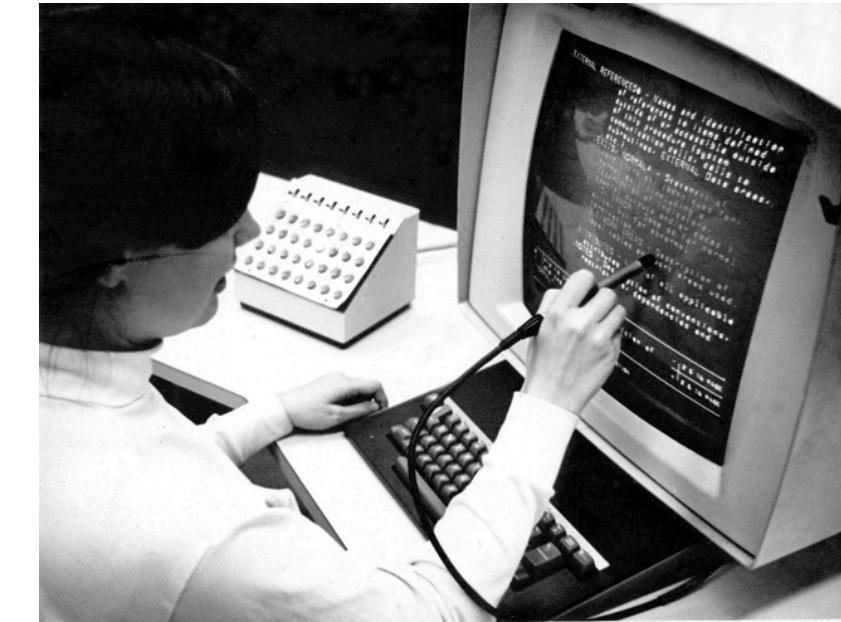
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## Microsoft ergonomic keyboards

Microsoft has designed and sold a variety of ergonomic keyboards for computers. The oldest is the Microsoft Natural Keyboard, released in 1994,...

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## History of printing

The history of printing starts as early as 3000 BCE, when the proto-Elamite and Sumerian civilizations used cylinder seals to certify documents written in clay tablets. Other early forms include block seals...

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## Space-cadet keyboard

The space-cadet keyboard is a keyboard designed by John L. Kulp in 1978 and used on Lisp machines at Massachusetts Institute of Technology (MIT), which inspired several still-current jargon terms in the field of...

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