

# KEYBOARDS

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# PLAN:

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- Keyboard overview
- History of keyboards
- Types of keyboard
- Laptop keyboards
- Smartphone and tablet keyboards

# A STANDARD WIRED COMPUTER KEYBOARD

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# KEYBOARD:

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- A computer keyboard is one of the primary input devices used with a computer. Like an electric typewriter, a keyboard is composed of buttons that create letters, numbers, and symbols, as well as perform other functions. The following sections provide more in-depth information and answers to some of the more frequently asked questions about the keyboard.

# THE 104-KEY PC US ENGLISH QWERTY KEYBOARD LAYOUT EVOLVED FROM THE STANDARD TYPEWRITER KEYBOARD, WITH EXTRA KEYS FOR COMPUTING

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# HISTORY OF KEYBOARDS

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- While typewriters are the definitive ancestor of all key-based text entry devices, the computer keyboard as a device for electromechanical data entry and communication derives largely from the utility of two devices: teleprinters (or teletypes) and keypunches. It was through such devices that modern computer keyboards inherited their layouts. As early as the 1870s, teleprinter -like devices were used to simultaneously type and transmit stock market text data from the keyboard across telegraph lines to stock ticker machines to be immediately copied and displayed onto ticker tape. The teleprinter, in its more contemporary form, was developed from 1907 to 1910 by American mechanical engineer Charles Krum and his son Howard, with early contributions by electrical engineer Frank Pearne. Earlier models were developed separately by individuals such as Royal Earl House and Frederick G. Creed.



# HISTORY OF KEYBOARDS

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- Earlier, Herman Hollerith developed the first keypunch devices, which soon evolved to include keys for text and number entry akin to normal typewriters by the 1930s. The keyboard on the teleprinter played a strong role in point-to-point and point-to-multipoint communication for most of the 20th century, while the keyboard on the keypunch device played a strong role in data entry and storage for just as long. The development of the earliest computers incorporated electric typewriter keyboards: the development of the ENIAC computer incorporated a keypunch device as both the input and paper-based output device, while the BINAC computer also made use of an electromechanically controlled typewriter for both data entry onto magnetic tape (instead of paper) and data output.



# KEYBOARD TYPES

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- Standard
- Laptop-size
- Flexible keyboards
- Handheld
- Thumb-sized
- Multifunctional



# LAPTOP KEYBOARDS:

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- A laptop keyboard is arranged differently than a desktop keyboard to accommodate the laptop's narrower footprint. Most laptop keyboards are made smaller by placing the keys closer and by including an Fn key. The Fn key is used in conjunction with other keys to perform special functions. For example, pressing the Fn key and the up or down arrow on the keyboard shown below, increases and decreases the brightness of the screen. Many laptop keyboards omit the numeric keypad to save space.



# SMARTPHONE AND TABLET KEYBOARDS

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- Apple iPhone keyboard Today's smartphones and tablets do not come with a physical keyboard, although it may be purchased as an optional peripheral add-on. These devices utilize a thumb keyboard or on-screen keyboard to type messages and enter text into various fields. The image to the right shows an example of the Apple iPhone on-screen keyboard, used on all of Apple's touch-based devices.



# THANKS FOR ATTENTION

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