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# The Best Keyboard Shortcuts for Bash (aka the Linux and macOS Terminal)



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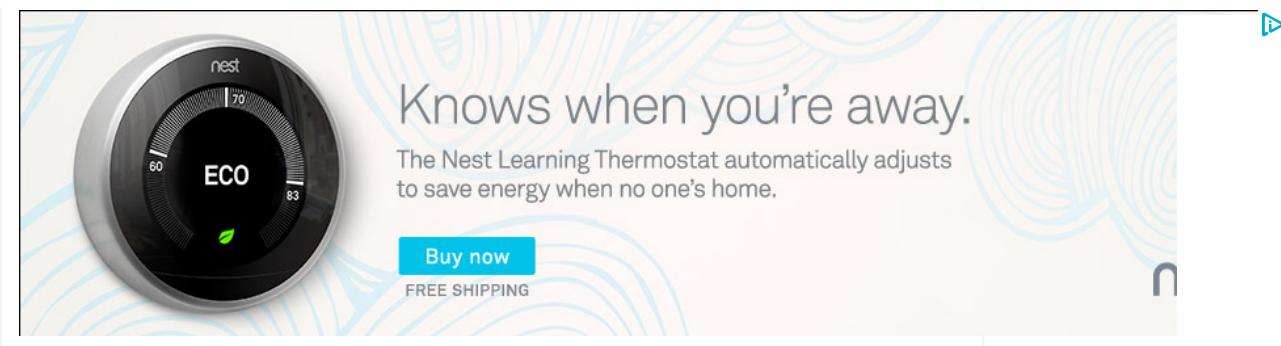
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```
chris@ubuntu:~$ bash --version
GNU bash, version 4.3.46(1)-release (x86_64-pc-linux-gnu)
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License GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.
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chris@ubuntu:~$
```

Bash is the default [command-line shell](#) on most Linux distributions, from Ubuntu and Debian to Red Hat and Fedora. Bash is also the default shell included with macOS, and you can [install a Linux-based bash environment on Windows 10](#).

The bash shell features a wide variety of keyboard shortcuts you can use. These will work in bash on any operating system. Some of them may not work if you're accessing bash remotely through an SSH or telnet session, depending on how you have your keys mapped.

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## Working With Processes

Use the following shortcuts to manage running processes.

- **Ctrl+C:** Interrupt (kill) the current foreground process running in the terminal. This sends the SIGINT signal to the process, which is technically just a request—most processes will honor it, but some may ignore it.
- **Ctrl+Z:** Suspend the current foreground process running in bash. This sends the SIGTSTP signal to the process. To return the process to the foreground later, use the `fg process_name` command.
- **Ctrl+D:** Close the bash shell. This sends an EOF (End-of-file) marker to bash, and bash exits when it receives this marker. This is similar to running the `exit` command.

```
chris@ubuntu:~$ ping google.com
PING google.com (216.58.216.142) 56(84) bytes of data.
64 bytes from sea15s01-in-f14.1e100.net (216.58.216.142): icmp_seq=1 ttl
=35.8 ms
64 bytes from sea15s01-in-f14.1e100.net (216.58.216.142): icmp_seq=2 ttl
=51.5 ms
^Z
[1]+  Stopped                  ping google.com
chris@ubuntu:~$ fg ping
ping google.com
64 bytes from sea15s01-in-f14.1e100.net (216.58.216.142): icmp_seq=3 ttl
=38.0 ms
64 bytes from sea15s01-in-f14.1e100.net (216.58.216.142): icmp_seq=4 ttl
=37.0 ms
```

## Controlling the Screen

The following shortcuts allow you to control what appears on the screen.

- **Ctrl+L**: Clear the screen. This is similar to running the “clear” command.
- **Ctrl+S**: Stop all output to the screen. This is particularly useful when running commands with a lot of long, verbose output, but you don’t want to stop the command itself with Ctrl+C.
- **Ctrl+Q**: Resume output to the screen after stopping it with Ctrl+S.

## Moving the Cursor

Use the following shortcuts to quickly move the cursor around the current line while typing a command.

- **Ctrl+A or Home**: Go to the beginning of the line.
- **Ctrl+E or End**: Go to the end of the line.
- **Alt+B**: Go left (back) one word.
- **Ctrl+B**: Go left (back) one character.
- **Alt+F**: Go right (forward) one word.
- **Ctrl+F**: Go right (forward) one character.
- **Ctrl+XX**: Move between the beginning of the line and the current position of the cursor. This allows you to press Ctrl+XX to return to the start of the line, change something, and then press Ctrl+XX to go back to your original cursor position. To use this shortcut, hold the Ctrl key and tap the X key twice.

## Deleting Text

Use the following shortcuts to quickly delete characters:

- **Ctrl+D or Delete**: Delete the character under the cursor.
- **Alt+D**: Delete all characters after the cursor on the current line.
- **Ctrl+H or Backspace**: Delete the character before the cursor.

## Fixing Typos

These shortcuts allow you to fix typos and undo your key presses.

- **Alt+T**: Swap the current word with the previous word.
- **Ctrl+T**: Swap the last two characters before the cursor with each other. You can use this to quickly fix typos when you type two characters in the wrong order.
- **Ctrl+\_**: Undo your last key press. You can repeat this to undo multiple times.

## Cutting and Pasting

Bash includes some basic cut-and-paste features.

- **Ctrl+W**: Cut the word before the cursor, adding it to the clipboard.
- **Ctrl+K**: Cut the part of the line after the cursor, adding it to the clipboard.
- **Ctrl+U**: Cut the part of the line before the cursor, adding it to the clipboard.
- **Ctrl+Y**: Paste the last thing you cut from the clipboard. The y here stands for “yank”.

## Capitalizing Characters

The bash shell can quickly convert characters to upper or lower case:

- **Alt+U**: Capitalize every character from the cursor to the end of the current word, converting the characters to upper case.
- **Alt+L**: Uncapitalize every character from the cursor to the end of the current word, converting the characters to lower case.
- **Alt+C**: Capitalize the character under the cursor. Your cursor will move to the end of the current word.

## Tab Completion

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