

Bash cheat sheet: Top 25 commands and creating custom commands

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The command line is something every developer should learn and implement into their daily routine. It has become a Swiss Army knife of features behind deceptively simple commands, which allow you to gain greater control of your system, become more productive, and much more. For example, you can write scripts to automate daily, time-consuming tasks, and even quickly commit and push code to a Git repository with just a few simple commands.

In this post we'll look at the Bash Shell (Bott file Again Shell), which best is a command-line interface (CLI) and is currently the most widely and is currently the most widely used shell. This is a light introduction into the most popular commands, when you're most likely to use them, and how to extend them with options. Later on in this article, you'll learn how to create your own custom commands (aliases), allowing you to create

shortcuts for a shigte confiniation of a group of confiniatios.

When it comes down to it, if you don't know the command line, you're not using your computer to its full potential.

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Top 25 Bash Commands

Quick note: Anything encased in [] means that it's optional. Some commands can be used without options or specifying files.

 $ls-List\ directory\ contents$

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Is is probably the most common command. A lot of times, you'll be working in a directory and you'll need to know what files are located there. The ls command allows you to quickly view all files within the specified directory.

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• Common options: -a, -l

echo — Prints text to the terminal window

echo prints text to the terminal window and is typically used in shell scripts and batch files to output status text to the screen or a computer file. Echo is also particularly useful for showing the values of environmental variables, which tell the shell how to behave as a user works at the command line or in scripts.

• Syntax: echo [option(s)] [string(s)]

• Common options: -e, -n

touch — Creates a file

touch is going to be the easiest way to create new files, but it can also be used to change timestamps on files and/or directories. You can create as many files as you want in a single command without worrying about overwriting files with the same name.

• Syntax: touch [option(s)] file_name(s)

• Common options: -a, -m, -r, -d

mkdir — Create a directory

mkdir is a useful command you can use to create directories. Any number of directories can be created simultaneously which can We use cookies to ensure you get the best experience on our website. Please review our

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• Syntax: mkdir [option(s)] directory_name(s)

• Common options: -m, -p, -v

scenarios where you'll be tasked to find a particular string or pattern within a file, but you don't know where to start looking, that is where grep is extremely useful.

- Syntax: grep [option(s)] pattern [file(s)]
- Common options: -i, -c, -n

man — Print manual or get help for a command

The man command is your manual and is very useful when you need to figure out what a command does. For example, if you didn't know what the command rmdir does, you could use the man command to find that out.

- Syntax: man [option(s)] keyword(s)
- Common options: -w, -f, -b

pwd — Print working directory

pwd is used to print the current directory you're in. As an example, if you have multiple terminals going and you need to remember the exact directory you're working within, then pwd will tell you.

- Syntax: pwd [option(s)]
- Common options: options aren't typically used with pwd

cd — Change directory

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cd will change the directory you're in so that you can get info, manipulate, read, etc. the different files and directories in your system.

• Syntax: cd [option(s)] directory

mv is used to move or rename directories. Without this command, you would have to individually rename each file which is tedious.
mv allows you to do batch file renaming which can save you loads of time.

- Syntax: mv [option(s)] argument(s)
- Common options: -i, -b

rmdir — Remove directory

rmdir will remove empty directories. This can help clean up space on your computer and keep files and folders organized. It's important to note that there are two ways to remove directories: rm and rmdir. The distinction between the two is that rmdir will only delete empty directories, whereas rm will remove directories and files regardless if they contain data or not.

- Syntax: rmdir [option(s)] directory_names
- Common options: -p

locate — Locate a specific file or directory

This is by far the simplest way to find a file or directory. You can keep your search broad if you don't know what exactly it is you're looking for, or you can narrow the scope by using wildcards or We use cookies to ensure you get the best regular expressions.

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- Syntax: locate [option(s)] file_name(s)
- Common options: -q, -n, -i

less — view the contents of a text file

The less command allows you to view files without opening an editor. It's faster to use, and there's no chance of you inadvertently modifying the file.

• Syntax: less file_name

• Common options: -e, -f, -n

compgen — Shows all available commands, aliases, and functions

compgen is a handy command when you need to reference all available commands, aliases, and functions.

• Syntax: compgen [option(s)]

• Common options: -a, -c, -d

> — redirect stdout

The > character is the redirect operator. This takes the output from the preceding command that you'd normally see in the terminal and sends it to a file that you give it. As an wasarpho take contor exometer best of file1" > file1. Here it creates a file called the Part you's the echoen our privacy Policy (/privacy) to learn more.

• Syntax: >

• Common options: n/a

• Common options: -n

| — **Pipe**

A pipe takes the standard output of one command and passes it as the input to another.

- Syntax: |
- Common options: n/a

head — Read the start of a file

By default, the head command displays the first 10 lines of a file. There are times when you may need to quickly look at a few lines in a file and head allows you to do that. A typical example of when you'd want to use head is when you need to analyze logs or text files that change frequently.

- Syntax: head [option(s)] file(s)
- Common options: -n

tail — Read the end of a file

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By default, the tail command displays the last deligner of the learn more. There are times when you may need to quickly look at a few lines in a file and tail allows you to do that. A typical example of when you'd want to use tail is when you need to analyze logs or text files that change frequently.

receive an error because you don't have access. The quick fix for this is to use <code>chmod</code>. Permissions can be set with either alphanumeric characters (u, g, o) and can be assigned their access with w, r, x. Conversely, you can also use octal numbers (0-7) to change the permissions. For example, <code>chmod</code> 777 <code>my_file</code> will give access to everyone.

- Syntax: chmod [option(s)] permissions file_name
- Common options: -f, -v

exit — Exit out of a directory

The exit command will close a terminal window, end the execution of a shell script, or log you out of an SSH remote access session.

- Syntax: exit
- Common options: n/a

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clear — Clear your terminal window

This command is used to clear all previous commands and output from consoles and terminal windows. This keeps your terminal clean and removes the clutter so you can focus on subsequent commands and their output.

• Syntax: clear

• Common options: n/a

cp — copy files and directories

Use this command when you need to back up your files.

- Syntax: cp [option(s)] current_name new_name
- Common options: -r, -i, -b

kill — terminate stalled processes

The kill command allows you to terminate copresess from the get the best command line. You do this by providing the process to kill. To find the PID, you can use the ps command accompanied by options -aux.

- Syntax: kill [signal or option(s)] PID(s)
- Common ontions: -n

- Common options, ma

How to create your own custom Bash commands

Custom commands in Bash are known as "aliases". Aliases are essentially an abbreviation, or a means to avoid typing a long command sequence. They can save a great deal of typing at the command line so you can avoid having to remember complex combinations of commands and options. There is one caveat to using aliases, and that is to be sure you don't overwrite any keywords.

• Syntax: alias_alias_name = "command_to_run"

A very simple example would look like this:

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Now every time you want to clear the screen, instead of typing in clear, you can just type c and you'll be good to go.

You can also get more complicated, such as if you wanted to set up a