

To start the top command, simply type top in your

The display updates periodically, showing a snapshot of

# top Command Cheatsheet

A comprehensive guide to the `top` command, covering process monitoring, system resource usage, and interactive commands for Unix-like operating systems.



# **Basic Usage**

Starting top

terminal

top

## Understanding the Display

The top display is divided into two main sections:

- 1. Summary Area: Displays overall system statistics.
- 2. Task Area: Lists the processes being managed by the kernel.

## Summary Area Fields

uptime	Shows how long the system has been running, the number of logged-in users, and the system load average.
Tasks	Displays the total number of tasks, along with their statuses (running, sleeping, stopped, zombie).
%Cpu(s)	Shows CPU usage statistics (user, system, idle, etc.).
KiB Mem	Displays memory usage (total, free, used, buffer/cache).
KiB Swap	Shows swap space usage.

## **Interactive Commands**

Displays the help menu.

Quits the top program.

Shows CPU usage per core (if supported).

#### **Basic Commands**

h

q

1

the system's processes.

#### Sorting Processes

Sorts processes by CPU usage Shift + (descending). р Shift + Sorts processes by memory usage m (descending). Shift + Sorts processes by PID (Process ID). n Shift + Reverses the sorting order. r Shift + Sorts processes by runtime. t

#### **Filtering Processes**

- u Filters processes by username. Prompts for a username Adds a filter based on other fields. Prompts for a 0 filter condition.
- Clears all active filters. =

# **Process Management**

#### **Killing Processes**

k	Kills a process. Prompts for the PID of the process to kill and the signal to send		Renices a process. Prompts for the PID of the process and the new nice value.
	(default is 15, SIGTERM).	Note	Only root can increase the priority (lower the nice value) of a process.
Example	To kill a process with PID 1234 using the default SIGTERM signal:	Example	To renice a process with PID 5678 to a nice value of 10:
	<ol> <li>Press k.</li> <li>Enter 1234 when prompted for the PID.</li> <li>Press Enter to accept the default signal (15).</li> </ol>		<ol> <li>Press r.</li> <li>Enter 5678 when prompted for the PID.</li> </ol>
			3. Enter 10 when prompted for the new nice value.

Changing Priority (Renice)

## **Advanced Features**

f

d

or

S

#### **Customizing Display Fields**

## Alternate Displays

Adds or removes fields from the task display. Allows you to customize which columns are	V	Toggles forest view, showing parent-child relationships between processes.
shown. Changes the delay time between screen updates	С	Toggles the display of the full command path instead of just the command name.
in seconds. d prompts for the new delay, s toggles between preset delays. Default is 3 seconds.	Shift + 1	Search for the string.

## **Command Line Options**

top -u <username> : Starts top, displaying only</username>
processes owned by <username> .</username>
Example:
top -u www-data
top -p <pid> : Starts top, displaying only the processwith PID <pid>.</pid></pid>
Example:
top -p 1234
top -n <number> : Exits after <number> iterations.</number></number>
Example:
top -n 5

top -b : Batch mode operation