



Linux Command Cheat Sheet

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For those people with little prior experience to the Linux command line "bash" shell, this quick reference provides a guide to the most useful and essential commands. The following table describes these commands. For more information, run `man command_name` or in some cases `command_name -h` for more information about `command_name`.

Name	Example	Description
<code>ls</code>	<code>ls /bin</code>	"List" the names of the files in a directory or an individual file.
<code>ls -l</code>	<code>ls -l /bin</code>	Show a "long listing" of the contents of a directory or file; that is, show more information about each directory and file.
<code>cd</code>	<code>cd new_dir</code>	"Change directory" to a new working directory, <code>new_dir</code> . You can use <code>~</code> as a shorthand for your "home" directory.
<code>pwd</code>	<code>pwd</code>	"Print working directory" to show where you are!
<code>cat</code>	<code>cat /tmp/file.log</code>	"Concatenate" one or more files to the screen. That is, dump the contents to the screen.
<code>less</code>	<code>less /tmp/file.log</code>	Show the contents a page at a time. Use space to show the next page and <code>q</code> to quit.
<code>rm</code>	<code>rm /tmp/file.log</code>	"Remove" the file. Warning: there is no "undo"!
<code>rm -rf</code>	<code>rm -rf directory</code>	"Remove" <code>directory</code> and its contents, recursively. Warning: there is no "undo"!

<code>mkdir</code>	<code>mkdir ~/test</code>	"Make directory". In this example, a directory named <code>test</code> inside your home directory.
<code>man</code>	<code>man ls</code>	Show the "manual" page for the specified command.
<code>grep</code>	<code>grep ERROR /tmp/file.log</code>	Show all lines in the file(s) that match the second argument. In this example, show all lines in the log file that have the string <code>ERROR</code> .
<code>cp</code>	<code>cp file1 file2</code>	Copy <code>file1</code> , creating a new <code>file2</code> . Warning: Deletes <code>file2</code> first if it already exists.
<code>cp -r</code>	<code>cp -r dir1 dir2</code>	Recursively copy <code>directory1</code> to <code>directory2</code> . If <code>directory2</code> already exists, adds any new files to, deleting any previous copies.
<code>find</code>	<code>find home -name 'toss*'</code>	Find all files and directories under <code>home</code> recursively whose names begin with <code>toss</code> .

You also have several options for using files in commands:

Example	Description
<code>grep ERROR /tmp/file.log > /tmp/error.log</code>	Find all lines with <code>ERROR</code> and write the output to <code>/tmp/error.log</code>
<code>mycommand < /tmp/file.log > /tmp/output</code>	Run <code>mycommand</code> and when it reads the <i>standard input</i> (what you would normally type yourself), use the contents of the file <code>/tmp/file.log</code> instead. Write the resulting output to <code>/tmp/output</code> .
<code>mycommand < /tmp/file.log >& /tmp/output</code>	Like the previous command, but also write any <i>error</i> output from <code>mycommand</code> to the same output file. Otherwise, the error output will be written to the screen.
<code>ls -l /bin grep ca</code>	List the files in <code>bin</code> , then "pipe" the output into the <code>grep</code> command and show only the lines that contain the string <code>ca</code> .
<code>ls -l /bin & grep ca</code>	Like the previous command, but also send any <i>error</i> output from <code>ls -l /bin</code> to the <code>grep ca</code> command.