**Bash Command Cheat Sheet**

**File Management**

| **Command** | **Description** | **Example** |
| --- | --- | --- |
| cp | Copies files or directories. | cp source.txt destination.txt |
| mv | Moves or renames files or directories. | mv oldname.txt newname.txt |
| rm | Removes files or directories (use with caution). | rm file.txt or rm -r directory/ |
| rmdir | Removes empty directories. | rmdir emptydir/ |
| mkdir | Creates a new directory. | mkdir newdir |
| touch | Creates an empty file or updates the timestamp of an existing file. | touch myfile.txt |

**File and Directory Information**

| **Command** | **Description** | **Example** |
| --- | --- | --- |
| ls | Lists files and directories. Use options like -l (detailed view) or -a (all files, including hidden). | ls -l or ls -a |
| file | Identifies the type of a file. | file myfile.txt |
| stat | Displays detailed information about a file, such as timestamps and size. | stat myfile.txt |

**Finding Files**

| **Command** | **Description** | **Example** |
| --- | --- | --- |
| find | Searches for files and directories in a specified location with filters. | find /path -name "filename" |
| locate | Quickly searches for files using a pre-built database. | locate myfile |
| updatedb | Updates the database used by locate. Requires administrative privileges. | sudo updatedb |

**Command Information**

| **Command** | **Description** | **Example** |
| --- | --- | --- |
| type | Displays how a command is interpreted (e.g., built-in, alias, external). | type ls |
| whereis | Locates the source, binary, and manual page for a command. | whereis ls |
| which | Displays the full path of a command. | which ls |
| man | Displays the manual page for a command. | man ls |

**Output and Formatting**

| **Command** | **Description** | **Example** |
| --- | --- | --- |
| echo | Prints text or variables to the terminal. | echo "Hello, World!" |
| ascii | Displays the ASCII table in the terminal. | ascii |

**Administrative Commands**

| **Command** | **Description** | **Example** |
| --- | --- | --- |
| sudo | Executes a command with administrative privileges. | sudo updatedb |

**Usage Tips**

* Use man [command] to explore options and usage details for any command.
* Always double-check before using rm or find with wildcards to avoid accidental deletion.
* Use sudo sparingly and only for commands requiring administrative rights.