

# Package Managers Cheat Sheet (apt, yum, brew)

A quick reference guide to common package management commands for apt (Debian/Ubuntu), yum (CentOS/RHEL), and brew (macOS). This cheat sheet provides essential commands for installing, updating, removing, and managing software packages on different operating systems.



## apt - Debian/Ubuntu

## Basic Package Management

| sudo apt                                       | Update the package lists.  |
|--|--|
| sudo apt<br>upgrade                            | Upgrade all upgradable packages.                                       |
| sudo apt install <package_name></package_name> | Install a new package.   |
| sudo apt remove <package_name></package_name>  | Remove a package (leaving configuration files).                        |
| sudo apt purge <package_name></package_name>   | Remove a package and its configuration files.                          |
| sudo apt                                       | Remove automatically installed dependencies that are no longer needed. |

## Package Information

| apt show <package_name></package_name>    | Show detailed information about a package. |
|---|--|
| apt list installed                        | List all installed packages.               |
| apt search <keyword></keyword>            | Search for packages by keyword.            |
| apt depends <package_name></package_name> | Show the dependencies of a package.        |

## Managing Repositories

| /etc/apt/sources.lis                                     | Main configuration file for APT repositories.   |
|--|---|
| /etc/apt/sources.lis                                     | Directory for additional repository files.      |
| sudo add-apt-<br>repository<br><repository></repository> | Add a new repository (e.g., PPA).               |
| sudo apt update  | Update package lists after adding a repository. |

## yum - CentOS/RHEL

#### Basic Package Management

| sudo yum update   | Update all packages.                   |
|---|--|
| <pre>sudo yum install <package_name></package_name></pre> | Install a new package.                 |
| <pre>sudo yum remove <package_name></package_name></pre>  | Remove a package.                      |
| sudo yum autoremove <package_name></package_name>         | Remove a package and its dependencies. |
| sudo yum clean all  | Clean up cached package data.          |

#### Package Information

| yum info <package_name></package_name> | Show detailed information about a package.   |
|--|--|
| yum list installed                     | List all installed packages.                 |
| yum search <keyword></keyword>         | Search for packages by keyword.              |
| yum provides <file_name></file_name>   | Find which package provides a specific file. |
|  |  |

#### Managing Repositories

| /etc/yum.repo                               | Directory for yum repository configuration files.                    |
|---|--|
| yum repolist                                | List all enabled yum repositories.                                   |
| yum install yum-utils                       | Install yum-utils package, provides useful utilities.                |
| yumdownloader <package_name></package_name> | Download an RPM package without installing it (requires yum-utils ). |

## brew - macOS

## Basic Package Management

| brew update                                  | Update Homebrew itself.                      |
|--|--|
| brew upgrade                                 | Upgrade all outdated packages.               |
| brew install <package_name></package_name>   | Install a new package.                       |
| brew uninstall <package_name></package_name> | Uninstall a package.                         |
| brew cleanup                                 | Remove older versions of installed packages. |

#### Package Information

| brew info <package_name></package_name> | Show information about a package. |
|---|-----------------------------------|
| brew list                               | List installed packages.          |
| brew search <keyword></keyword>         | Search for packages by keyword.   |
| brew deps <package_name></package_name> | Show dependencies for a package.  |

## Managing Brew

| brew doctor                               | Diagnose potential problems with your brew setup. |
|---|---|
| brew config                               | Display Homebrew's configuration info.            |
| brew cask install <cask_name></cask_name> | Install a cask (GUI application).                 |
| brew tap <user repo=""></user>            | Add a new tap (unofficial repository).            |

## **Common Operations Across Package Managers**

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# **Updating Packages**

# Installing and Removing

| apt search                    | Search for a package by name or |
|-------------------------------|---------------------------------|
| <package_name></package_name> | description.                    |
| yum search                    |                                 |
| <package_name></package_name> |                                 |
| brew search                   |                                 |
| <package_name></package_name> |                                 |
| apt list                      | List all installed packages.    |
| installed                     |                                 |
| yum list                      |                                 |
| installed                     |                                 |
| brew list                     |                                 |

| apt update && apt upgrade yum update brew update && brew upgrade | Update the package list and upgrade packages.           |
|--|---|
| apt autoremove yum autoremove brew cleanup                       | Remove unneeded dependencies and clean up old versions. |

| Install a specific<br>package. |
|--------------------------------|
| Remove a specific package.     |
|                                |

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