

Arch Linux pacman Cheat Sheet

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Package Management (Install, Remove, Info)

```
pacman -S <pkg>          : Install a package
pacman -R <pkg>          : Remove a package
pacman -Rs <pkg>         : Remove a package and its unneeded dependencies
pacman -Rns <pkg>        : Remove with config + unused deps
pacman -Qi <pkg>         : Info about installed package
pacman -Si <pkg>         : Info about package in repo (not installed)
pacman -Ql <pkg>         : List files installed by a package
pacman -Qk <pkg>         : Check if any files are missing or corrupted
pacman -Qo /path/file    : Find which package owns a file
```

Searching

```
pacman -Ss <keyword>     : Search packages in the repo
pacman -Qs <keyword>     : Search installed packages
pacman -Q | grep <kw>    : List matching installed packages
```

Updating System

```
pacman -Syu              : Sync database + update system
pacman -Sy               : Sync databases only (risky alone)
pacman -Su               : Upgrade only (after sync)
```

Cleanup & Orphans

```
pacman -Qdt              : List orphaned packages
pacman -Rns $(pacman -Qdtq) : Remove all orphans
pacman -Sc               : Clear old package cache (keep latest)
pacman -Scc              : Clear all cache (aggressive)
```

File & Ownership Related

```
pacman -Ql <pkg>         : List files in package
pacman -Qk <pkg>         : Check package file integrity
pacman -Qo /file         : Find which package owns a file
pacman -Fs <file>        : Search repos for a file
pacman -F <file>         : Find which package could install a file
pacman -Fy               : Update file database
```

Package Querying

```
pacman -Q                : List all installed packages
pacman -Qe               : List explicitly installed packages
pacman -Qd               : List dependencies
pacman -Qdt              : List orphans
pacman -Qm               : List AUR packages
```

Bonus

`--needed` : Avoid reinstalling up-to-date packages

Example: `sudo pacman -S --needed base-devel git`