

# Homebrew 快速参考

包管理、Cask、Tap、服务、清理

## 安装

### 安装 Homebrew

```
/bin/bash -c "$(curl -fsSL \
https://raw.githubusercontent.com/Homebrew/install/HEAD/install.
sh)"
brew --version # verify installation
```

### 安装后配置 (Apple Silicon)

```
# add Homebrew to PATH (Apple Silicon default)
echo 'eval "$(/opt/homebrew/bin/brew shellenv)"' \
>> ~/.zprofile
eval "$(/opt/homebrew/bin/brew shellenv)"
```

### 安装路径

`/opt/homebrew` Apple Silicon (ARM) 前缀  
`/usr/local` Intel Mac 前缀  
`/home/linuxbrew/.linuxbrew` Linux 前缀

## 包管理

### 安装与卸载

```
brew install git # install formula
brew install git@2.40 # install specific version
brew uninstall git # remove formula
brew reinstall git # reinstall formula
```

### 更新与升级

```
brew update # update Homebrew itself
brew upgrade # upgrade all packages
brew upgrade git # upgrade specific package
brew pin git # prevent auto-upgrade
brew unpin git # allow upgrade again
```

### 列出已安装

```
brew list # all installed formulae
brew list --cask # all installed casks
brew leaves # top-level (not dependencies)
brew deps git # show dependencies of git
```

## 搜索与信息

### 查找包

```
brew search postgres # search by name
brew search --cask chrome # search casks only
brew info git # package details
brew home git # open homepage in browser
```

### 信息字段

**Name / Version** 包名与已安装版本  
**Dependencies** 依赖的包  
**Conflicts** 不能共存的包  
**Caveats** 安装后注意事项 (PATH、配置)  
**Analytics** 安装次数 (近 30/90/365 天)

## 服务管理

### 管理服务

```
brew services list # all services + status
brew services start postgresql # start and auto-launch
brew services stop postgresql # stop service
brew services restart nginx # restart service
brew services run redis # start without auto-launch
```

### 服务说明

**start** 立即启动并注册开机自启  
**run** 仅立即启动 (不自启)  
**stop** 停止并取消自启注册  
**restart** 先停止再启动  
**list** 显示所有服务及状态  
**Logs** 查看 `~/Library/Logs/Homebrew/``

## Cask

### GUI 应用管理

```
brew install --cask firefox # install GUI app
brew uninstall --cask firefox # remove GUI app
brew upgrade --cask # upgrade all casks
brew list --cask # list installed casks
```

### 常用 Cask

`google-chrome` Chrome 浏览器  
`visual-studio-code` VS Code 编辑器  
`docker` Docker Desktop  
`iterm2` iTerm2 终端  
`slack` Slack 通讯  
`rectangle` 窗口管理  
`1password` 密码管理器  
`raycast` 启动器 (Spotlight 替代)

## Tap

### 第三方仓库

```
brew tap # list tapped repos
brew tap hashicorp/tap # add a tap
brew untap hashicorp/tap # remove a tap
brew install hashicorp/tap/terraform # install from tap
```

### 常用 Tap

`homebrew/cask` GUI 应用 (默认包含)  
`homebrew/cask-fonts` 字体: `brew install --cask font-fira-code``  
`homebrew/bundle` Brewfile 支持 (Homebrew 的 Bundler)  
`hashicorp/tap` Terraform、Vault、Consul

### Brewfile (Bundle)

```
brew bundle dump # generate Brewfile
brew bundle install # install from Brewfile
brew bundle cleanup # remove unlisted packages
```

## 清理

### 释放磁盘空间

```
brew cleanup # remove old versions
brew cleanup -s # also remove cache
brew cleanup --prune=all # remove all cached downloads
brew autoremove # remove unused dependencies
```

## 诊断

```
brew doctor # check for issues
brew config # show Homebrew config
brew missing # list missing dependencies
du -sh $(brew --cache) # check cache size
```

## 常用模式

### 日常工作流

**每日更新** `brew update && brew upgrade && brew cleanup``  
**新 Mac 初始化** 从 Brewfile 执行 `brew bundle install``  
**导出配置** `brew bundle dump --file=~/Brewfile``  
**健康检查** `brew doctor``  
**查看占用空间** `brew list --formula | xargs brew info``  
**卸载含依赖** `brew uninstall pkg && brew autoremove``

### Brewfile 示例

```
# ~/Brewfile
tap "homebrew/bundle"
brew "git"
brew "node"
brew "python"
cask "visual-studio-code"
cask "docker"
```