GENERAL

how to empty trash on mac

Published: September 3, 2026 | Index ID: #-

Introduction

When you delete a file on a Mac, it doesn't vanish instantly. Instead, it lands in the Trash, a safety net that lets you recover items if you change your mind. Over time, the Trash can fill up with old photos, documents, and applications, consuming valuable disk space and potentially slowing down your system. If you've ever wondered **how to empty trash on mac**, you're in the right place. This guide walks you through every method—Finder, keyboard shortcuts, Terminal commands, and even third party tools—so you can keep your Mac tidy and efficient.

Why Empty the Trash Regularly?

Keeping the Trash empty is more than just a cosmetic choice. Here are a few reasons why you should empty it on a regular basis:

- Free Up Storage: Deleted files can occupy gigabytes of space. An empty Trash means those bytes are available for new data.
- Improve System Performance: macOS uses disk space for caching and virtual memory. A full Trash can interfere with these processes.
- Reduce Security Risks: Sensitive documents lingering in the Trash could be accessed by others if your Mac is lost or stolen.
- Clean Up the Finder: A cluttered Trash icon can clutter your Dock and make navigation confusing.

Understanding the Trash on macOS

The Trash is a hidden folder located at ~/.Trash in your user directory. When you move a file to the Trash, macOS doesn't delete it; it merely marks it for later removal. This design gives you a safety net, but it also means that the files remain on your disk until you decide otherwise. Knowing how the Trash works helps you manage it more effectively.

What Happens to Deleted Files?

When you delete a file, macOS writes a small flag to the file's metadata, indicating that it should be treated as "deleted." The file's data blocks remain on the disk until the system needs that space for new data. This is why you can still recover files from the Trash even after a long time.

Trash Size Limits

macOS doesn't impose a hard limit on the Trash size. However, if you have a very full hard drive, the system may start to struggle with allocating new space. That's why keeping the Trash empty is a good preventive measure.

Method 1: Emptying the Trash via Finder

The most common way to empty the Trash is through the Finder. This method is straightforward and works on all macOS versions.

Step by Step Guide

1. Open the Trash: Click the Trash icon in the Dock, or use Cmd + Shift + . to reveal hidden files if you want to

see what’s inside.

2. Review Items: Browse through the contents. If you see something you might need later, simply drag it out of the Trash.
3. Empty the Trash: Right click the Trash icon and select Empty Trash, or choose Finder > Empty Trash from the menu bar.
4. Confirm Deletion: A dialog will appear asking if you’re sure you want to permanently delete the items. Click Empty Trash again to confirm.

Tips for a Smooth Emptying Process

- Check for Locked Files: Locked files can prevent the Trash from emptying. Right click the file, choose Get Info, and uncheck Locked.
- Use Finder Preferences: In Finder > Preferences > Advanced, enable Show warning before emptying the Trash if you want an extra safety net.
- Use Finder’s Quick Look: Press Spacebar to preview a file before deciding whether to keep it.

Method 2: Empty the Trash Using a Keyboard Shortcut

For power users who prefer keyboard commands, macOS offers a quick shortcut to empty the Trash without opening Finder.

The Shortcut

Press **Cmd + Shift + Delete** while the Trash icon is selected in the Dock. A confirmation dialog will appear.

Benefits

- Speed: Saves a few mouse clicks.
- Consistency: Works the same across all macOS releases.
- Accessibility: Useful for users who rely on keyboard navigation.

Method 3: Emptying the Trash via Terminal

Advanced users can use Terminal commands to empty the Trash. This method is powerful, especially when you need to script or automate the process.

Using the rm Command

1. Open Terminal: Find it in Applications > Utilities or use Cmd + Space and type “Terminal.”
2. Navigate to Trash: Type cd ~/.Trash and press Enter.
3. Delete All Items: Run rm -rf *. This command force removes everything in the Trash.

Using the trash Utility

macOS doesn’t ship a built in command called trash, but you can install it via Homebrew:

1. Install Homebrew (if needed): /bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
2. Install the trash utility: brew install trash
3. Empty Trash: trash -c

Why Use Terminal?

- Automation: Combine with cron jobs or launchd to schedule regular trash cleanups.
- Remote Management: SSH into a Mac and clean up without a GUI.
- Recovery Testing: Quickly clear the Trash to test backup solutions.

Emptying Trash in macOS Big Sur, Monterey, and Ventura

While the core process remains unchanged, newer macOS versions introduce subtle UI tweaks.

Big Sur

The Trash icon now has a new design, but the menu options are identical. You can also right‑click the Trash icon in the Dock and select **Empty Trash**.

Monterey

Monterey adds a **Smart Trash** feature that automatically deletes items older than 30 days. To enable it, go to **System Settings > Desktop & Dock > Trash** and toggle **Smart Trash**.

Ventura

In Ventura, you can use the **Trash > Empty Trash** menu in Finder or the **Cmd + Shift + Delete** shortcut. Ventura also introduces a **Trash Preview** feature, accessible by hovering over the Trash icon.

Using Third‑Party Apps to Empty Trash

If you prefer a more feature‑rich experience, several third‑party utilities can help you manage the Trash.

CleanMyMac X

CleanMyMac X offers a “Trash” module that lets you view all deleted files, recover them, or permanently delete them with a single click.

OnyX

OnyX is a free maintenance tool that includes a “Trash” section. It can empty the Trash and also perform system repairs.

AppCleaner

AppCleaner removes applications and their associated files. It also cleans up the Trash when you uninstall an app.

Why Choose a Third‑Party App?

- Batch Operations: Delete multiple Trash items at once.
- Recovery Options: Some apps allow you to restore files without opening Finder.
- Automation: Many utilities can schedule regular cleanups.

Safety Tips When Emptying Trash

Before you permanently delete anything, consider these safety measures:

1. Double‑Check the Contents

Open the Trash and review each file. If you’re unsure, right‑click and choose **Open With > Preview** to inspect.

2. Use a Backup

Always keep a backup of important data. Time Machine or cloud services like iCloud, Google Drive, or Dropbox can act as a safety net.

3. Keep an Eye on System Storage

Use **Apple Menu > About This Mac > Storage** to monitor disk usage. If you’re close to capacity, emptying the Trash can free up a significant amount of space.

4. Beware of Hidden Files

Some system files may be hidden. Use Cmd + Shift + . to reveal them in Finder. Deleting essential system files can cause instability.

Recovering Deleted Files from Trash

One of the Trash's greatest benefits is that it gives you a chance to recover mistakenly deleted items.

Using Finder

1. Open Trash: Click the Trash icon in the Dock.
2. Find the File: Browse or use the search bar.
3. Recover: Drag the file back to the Desktop or another folder.

Using Terminal

Navigate to ~/.Trash and copy the file back to its original location with cp or mv.

Using Time Machine

Enter Time Machine and navigate to the date before deletion. Restore the file to its original location.

Automatically Empty Trash After a Certain Time

macOS doesn't provide a built in setting to auto empty Trash after a set period, but you can achieve this with scripts or third party tools.

Using Automator

1. Open Automator: Find it in Applications.
2. Create a New Application: Choose Application as the document type.
3. Add "Empty Trash" Action: Search for "Empty Trash" in the library and drag it to the workflow.
4. Save: Name it "Empty Trash" and place it in Applications.
5. Schedule with Calendar: Open Calendar, create a new event, and set the event to run the Automator app daily.

Using a Bash Script

Create a script called empty_trash.sh with the following content:

```
#!/bin/bash
rm -rf ~/.Trash/*
```

Make it executable: chmod

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