A blue text on a white background

AI-generated content may be incorrect.

**How can I troubleshoot a MacBook display issue**

To troubleshoot a MacBook display issue, follow these steps based on the specific symptoms:

**General Troubleshooting Steps**

1. **Restart Your MacBook**
   * Restarting can resolve temporary glitches. Go to the Apple menu and select "Restart".
2. **Check Brightness Settings**
   * Adjust the brightness using the keyboard or System Settings > Displays.
3. **Update macOS**
   * Go to System Settings > General > Software Update and install any available updates. Ensure your data is backed up before updating.
4. **Run Apple Diagnostics**
   * Shut down your Mac, disconnect peripherals, and restart while holding the "D" key (Intel-based Macs) or pressing Command-D (Apple silicon). This will check for hardware issues.
5. **Reset NVRAM/PRAM**
   * Shut down your Mac, then restart while holding Option + Command + P + R for about 20 seconds (Intel-based Macs). For Apple silicon Macs, this process happens automatically.
6. **Reset SMC (System Management Controller)**
   * For Intel-based Macs:
     + Shut down your Mac.
     + Hold Shift + Control + Option + Power for 10 seconds.
     + Release all keys and restart[[5]](#fn5).
   * For Apple silicon Macs, this is integrated into the T2 chip and resets automatically.

**Specific Display Issues**

**Screen Flickering**

* Disable "Automatic Graphics Switching" in System Settings > Battery > Options.
* Delete duplicate color profiles in System Settings > Displays > Color Profile.
* Turn off True Tone in System Settings > Displays.

**Black Screen**

* Perform a hard reset by holding the power button for 10 seconds, then restarting.
* Check for loose screen cables if the issue follows physical impact (requires professional handling).
* Boot into macOS Recovery Mode to rule out software issues:
  + Hold Command + R during startup (Intel) or press and hold the power button until options appear (Apple silicon).

**Blurry or Incorrect Colors**

* Adjust resolution settings in System Settings > Displays.
* Use the appropriate color profile for your display in System Settings > Displays > Color Profile.

**Bright/Dark Spots or Pixel Anomalies**

* These may indicate hardware defects. Contact Apple Support or an authorized service provider for repair.

**Advanced Steps**

1. **Reinstall macOS**  
   If software issues persist, boot into macOS Recovery Mode and reinstall macOS without erasing data[[4]](#fn4).
2. **Check for Malware**  
   Use a trusted antivirus tool or CleanMyMac to scan for malware that could cause display glitches.
3. **Contact Apple Support**  
   If none of these steps resolve the issue, seek professional assistance from Apple or an authorized service center to avoid further damage.

By systematically following these steps, most MacBook display issues can be diagnosed and resolved effectively.