

Optimize Your Chromebook For Video Conferencing

Chromebooks differ from laptops in one major way: resources. Chromebooks do not have the memory or processing power that a laptop have. Every tab or extension that is running takes up valuable memory. If you are starting a resource intense activity on your devices such as a Zoom or Google Meet session you might not have enough resources. This might cause video to lag, freeze, or your session might drop completely. If your Chromebook seems slow, disconnects, will not maintain a video conference session, it might be out of resources. See below to determine if your device is low on resources and how to fix it.

- 1** Use the search feature on your device to search for the extension “Cog”. It should already be installed on your device.
- 2** When Cog launches note the amount of memory you are using and the CPU Usage.
- 3** Your Chrome OS version should be 83 or higher. If this is not the case you will need to update your OS.



The screenshot shows the Cog extension interface on a Chromebook. The interface is dark green and displays various system metrics. Three red circles with numbers 1, 2, and 3 are overlaid on the image, with red arrows pointing to specific elements:

- 1** Points to the search icon in the bottom left corner of the Chrome OS taskbar.
- 2** Points to the CPU Usage and Memory Usage progress bars.
- 3** Points to the Chrome Version field in the Operating System section.

The Cog extension interface displays the following information:

- COG 0.0.14
- Operating System: Chrome OS
- Chrome Version: 71.0.3578.127
- Platform: Linux x86-64
- CPU: Intel® Celeron® CPU N3060 @ 1.60GHz
- CPU Usage: [Progress bar]
- Architecture: x86-64
- Temperatures: 99 °F, 99 °F, 88 °F
- Features: MMX, SSE, SSE2, SSE3, SSSE3, SSE4.1, SSE4.2
- Internal Storage: /mnt/stateful_partition - 10.525 GB
- Memory: 1.901 GB
- Memory Usage: [Progress bar]
- Internet: Online - wifi
- Network Info: arcbr0 - 100.115.92.1, arcbr0 - FE80::3C03:62FF:FE50:98CC, veth_android - FE80::BCB9:6CFF:FE69:5206, wlan0 - 192.168.1.5

How To Free Up Memory On Your Chromebook

- 1 Open the Chrome Task Manager by pressing Shift + Esc keys on your keyboard



- 2 Click on Memory or CPU to see what is overutilizing your resources.

- 3 If the Browser is the highest resource then close tabs in your browser. If the high resource is an extension then click the items and select End Process

Task	CPU	Network	GPU memory	Process priority
Browser	0.0	0	20,272K	Normal
GPU Process	1.6	0	170,328K	Normal
Utility: Network Ser...	0.0	0	-	Normal
Utility: Audio Service	0.0	0	-	Normal
Tab: Slack * edit-b...	0.0	0	0K	Low
Tab: Posts < How-To...	0.0	0	19,937K	Low
Tab: Add New Post...	0.0	0	26,226K	Normal

End process

- 4 Type chrome://extensions



- 5 Permanently turn off extensions you are not utilizing by going to chrome://extensions

Turn off unneeded extensions by sliding the lever to the left

Cisco Webex Extension
Join Webex meetings using Google Chrome™

Details Remove

5