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Install Official Chrome OS on PC / Laptop with Play Store and Linux! (Read 12521 times) 0 Members and 2 Guests are viewing this topic. Share me

Chrome operating system (OS) was reserved only for Chromebook users, but now it's available for other devices. It's a great alternative to Windows or Linux, and you can run it without an installation. You need to download Chrome OS to a USB drive and use Etcher or some other software to make it bootable. In this article, you will learn how to get Chrome OS working on any computer.Chrome OS Pre-Installation ConsiderationsChrome OS is technically made for Chromebooks that are designed to be lightweight and straightforward. Google does all of the updates. It's one of the simplest operating systems you can get. Chromium OS (not Chrome OS) is an open-source version of Chrome OS, and it can work with all devices, including Mac, Linux, and Windows. Some hardware won't work perfectly, but most PCs can run Chromium without any issues.The company behind Chromium is called Neverware. They use the open-source code to create Neverware CloudReady, which is the same as Chromium OS, but with some extra features and mainstream hardware support. Their OS is now used in schools and businesses all over the world.The open-source version of Chrome OS is ideal for older Windows XP and Windows 7 PCs because it provides more protection and it's easier to update. However, you can also use it on newer computers or laptops using Windows 10 or Linux. It's an operating system that doesn't take too much space, and it works great for basic operations and surfing the internet. Don't expect high-level gaming functionality, though.Installing Chromium OS on Your DeviceBefore getting to the installation, there are some prerequisites you need to fulfill. After that, you start the installation process. Here's what to do.1. Prerequisites to Installing Chromium OSFirst, you have to download the latest version of Chromium for your particular device. You will also need a program to work with the OS image. In this example, Etcher was used, along with a USB with at least 8 GB capacity and the PC for the Chromium installation.Here are the links to software you should download to make things work:Download 1: 7-Zip for Windows, Keka for macOS, or p7zip for LinuxDownload 2: Etcher for Windows, macOS, and LinuxPrepare your USB, but ensure it's empty. Transfer all valuable data to your PC before you begin. When you've got everything ready, here is what to do:2. Download Chromium OSGoogle offers an official Chromium OS build you can download to your PC. You can find many websites that provide Chromium for free, but we advise you to get it from Arnold the Bat. You can see a long list of Chromium versions because it's continuously updated with new releases. Follow the on-site instructions and download the latest version.3. Extract the imageWhen the download is completed, you will have to extract the image using 7-Zip. Right-click on the downloaded file and extract the data to a new folder. The process takes a few minutes to complete.4. Prepare Your USB DriveGet the USB you want to use to boot Chromium and plug it into your PC. If you are using Windows, find the USB in My Computer, right-click on it, and select Quick format. When the pop-up window appears, choose FAT32 as your file system and click Start. Know that all of the data on your USB drive will be wiped clean. For Macs, skip to Step 3.macOS users can use the Disk Utility to format the USB as FAT32. If it says MS-DOS DAT instead of FAT32, don't worry because it's the same format. Complete the process to prepare your USB.5. Use Etcher to Install the Chromium ImageYou have done most of the preparation by now. Your Chromium is downloaded and extracted, and the USB is formatted, so you are ready to continue. Download Etcher using the link provided above. Here is what you have to do from there:Run Etcher.Click Flash from file and find the Chromium OS image you have previously downloaded and add it.Click Select Drive and select the USB you prepared.Hit Flash, and Etcher will install a bootable version of Chromium to your USB device.The creation process takes a few minutes to complete. When it's done, wait for Etcher to verify that everything works as expected. You are now ready to install Chromium on your PC.6. Restart Your PC and Enable USB in the Boot OptionsYou have to run BIOS to set USB as your primary boot device.When the PC is first starting up, you can run BIOS by pressing F8, F10, F12, or Del. The key you need to press will vary based on your BIOS. Every BIOS has different-looking BIOS, but you should look for an option labeled Boot Manage or Boot.Set the USB as your primary boot device and then select Save & Exit; the actual name may differ in your BIOS.On a Mac:Mac users also have to restart their computers and hold the Option key to enter the boot menu.Select the USB drive instead of Macintosh to boot Chromium from your USB drive. Restart your Mac when done.7. Boot into Chrome OS Without an InstallationThe great thing about Chrome OS is that you don't need to install it, and it doesn't take any space on your hard drive. You can boot it right from the USB without installation, so your primary OS won't be affected. You can set up your Chrome OS with a Google account and use it only for surfing the internet.8. Install Chrome OS on Your DeviceIf you've tested everything and found it to your satisfaction, then it's time to install it.Frequently Asked QuestionsWe've included this section to answer more of your questions about installing Chrome OS.Should I install Chrome OS Flex instead?Users can get early access to Chrome OS Flex using this link. It is a lightweight and secure operating system that is designed to refresh older hardware. While it works well with a lot of devices and it's certainly worth downloading, users should check the certified device list before downloading.The installation steps are relatively simple, and you can try the operating system for free.Install Chrome OS to Any DeviceNow that Chrome OS is running, you can try it out on any device. You will be surprised at how well it works. Better yet, it supports software from all platforms, including Mac, Windows, and Linux. Google's data source is not currently providing all recovery images. You may be able to find them on Google's site until they fix the issue. Switch to the dark mode that's kinder on your eyes at night time. Switch to the light mode that's kinder on your eyes at day time. Back to Top Chrome OS is surely not as feature-packed as Windows 10, but one can't deny that it breathes a new life into old machines. In fact, I would go as far as to say that, if you are a general user then you should use Chrome OS over Windows 10 for its amazing performance and battery life. And with the Play Store support, you can actually run Android and Linux apps on your PC. How cool is that? So in this article, we bring you a detailed guide on how to install Chrome OS on PC with Play Store support. In addition, you can also access Linux GUI apps on your PC so that is an added advantage. With all that said, let's now go ahead and learn how to install Chrome OS on PC with Google Play Store support. Install Chrome OS on PC with Play Store Support (2022) Before we start our tutorial, let's get the requirements and downloads out of the way. Once you meet all the requirements and download the relevant files, the setup will go smoothly. You can click on the links below to move between different menus. Requirements for Installing Chrome OS on Windows PC UEFI support in the motherboardSupport for legacy BIOS has also been added, but there are a few limitations. You can read the documentation here. Intel-based CPU and GPUISupport for AMD CPU and GPU has also been added, but currently, it only supports AMD Ryzen 3XXX and AMD Stoney Ridge processorsA USB flash drive with at least 16GB of storage space Install Chrome OS on Windows: Required Downloads 1. First off, download the Linux Mint Cinnamon image. You can also use other Linux distros such as Ubuntu or Debian, but since Linux Mint is pretty lightweight, I am using it in this tutorial. 2. Next, download Rufus (Free) so that we can flash Linux Mint Cinnamon on the USB drive. 3. After that, download the official Chrome OS recovery image from here. If this link is not working then you can download the image from here as well. Open the website and search for "rammus". Now, click on the latest recovery image to download it (right now it's 87, but it may change in the future). Here, I am recommending "rammus" because it works on modern Intel processors. However, you should follow the below rule and download the specific image based on your processor. "rammus" is the recommended image for devices with 4th generation Intel CPU and newer. "samus" is the recommended image for devices with 3rd generation Intel CPU and older. "grunt" is the image to use for AMD Ryzen 3XXX. "zork" is the image to use for AMD Ryzen Stoney Ridge. 4. Now, download the most important file: Brunch. It's a framework built by a developer named sebanc so huge thanks to him for making this project possible. The framework creates a generic Chrome OS image from the official recovery image so it can be installed on any Windows PC. To download the file, click here and look for the latest stable build and then click on "Assets". Now, download the "tar.gz" file. 5. Finally, download the "install.sh" script which magically installs Chrome OS without manually typing the commands. The script has been written by Kedar Nimbalkar. To download it, click here and press Ctrl + S to save the file. If the above link is not working then you can click on this alternative link to download the "install.sh" script. Now that we are done with the downloads, let's jump to the steps, shall we? Install Chrome OS on PC with Play Store Support Before moving to installation steps, I want to give a quick rundown as to how we will install Chrome OS on PC with Play Store support. First off, we will boot Linux Mint through the USB drive on our Windows computer, and from there, we can run the script and install Chrome OS on our PC. Keep in mind, this process will completely wipe your hard drive including personal files and folders. So create a backup before you proceed. With that out of the way, let's move to the steps. 1. Connect your USB flash drive and open Rufus. Next, click on the "Select" button and choose the Linux Mint Cinnamon image. Now, just click on "Start". You will get a few prompts so click on "Yes" and "OK" to continue the flashing process. 2. After Rufus is done with flashing, close it. Now, create a folder named "Chrome OS" on your desktop. Move the "install.sh" file to the "Chrome OS" folder. 3. Next, right-click on the Brunch file and choose "Extract to Brunch...". All the files will be extracted in a folder on the desktop. 4. Now, move all the extracted Brunch files to the same "Chrome OS" folder on the desktop. 5. Similarly, extract the official Chrome OS recovery image and you will get a folder on the desktop. Open it and rename the file to rammus_recovery.bin. If you have downloaded another image then rename it accordingly. For example, if you have downloaded the "samus" image then rename it to samus_recovery.bin. 6. Finally, move the "rammus_recovery.bin" file to the "Chrome OS" folder. By the end, you should have these 6 files inside the "Chrome OS" folder. 7. Now, move the whole "Chrome OS" folder to the USB drive on which you just flashed Linux Mint Cinnamon. 1. Plug the USB flash drive into the PC on which you want to install Chrome OS. If you are installing Chrome OS on the same PC then keep it plugged in. 2. Next, restart your PC and press the boot key continuously to boot into the UEFI/BIOS menu. If you don't know the boot key of your PC then you can find it from the below table. 3. Once you have entered the BIOS, move to the "Boot" tab and select "UEFI" from the Boot List Option. If this option is not available then don't worry, move to the next step. 4. After that, move to the "Security" tab and disable "Secure Boot". Keep in mind, every BIOS has its own interface so the menu placement might differ from one PC to another. Nevertheless, look for "UEFI" and "Secure Boot" under Security, Boot, or System Configuration tabs and makes the changes accordingly. Keep in mind, disabling Secure Boot is mandatory. 5. Finally, move to the "Exit" tab and choose "Exit Save Changes". Immediately, after that, start pressing the boot key again. You will be asked to choose your boot device. Select the "USB drive" and hit enter. 6. You will boot straight into Linux Mint Cinnamon. If you are prompted with a splash screen, choose the default option: "Start Linux Mint". 1. Now that you have booted into Linux Mint, click on the network icon at the bottom-right corner and connect to WiFi or Ethernet. The Chrome OS installer will need an active internet connection to download some missing libraries and dependencies. 2. After that, open the "Home" folder on the desktop and move to the "File System" tab. 3. Here, click on the search button and type "Chrome OS" to find the folder that we moved earlier. 4. Now, open the folder and right-click inside the folder to open the Terminal. Here, type sudo sh install.sh and hit enter. It will start downloading some libraries and dependencies. 5. After a while, it will ask if you want to continue with the installation. Keep in mind, this will completely wipe your whole hard drive. To proceed with the installation, type yes and hit enter. It will now start installing Chrome OS on your PC. Note: If you get any syntax error during installation then move to the Troubleshoot section below to find the solution. 6. After the installation is done, open the start menu of Linux Mint located at the bottom-left corner and click on the "Turn off" button. Here, choose "Shut Down" to turn off your PC. 7. Now, remove the USB flash drive and then turn on your Windows PC. This time, your PC will boot straight into full-fledged Chrome OS. In case, Chrome OS is not installed on your PC hard disk and has, in fact, installed on the USB drive then follow our troubleshooting guide below. Note: Before logging into your Google account, keep in mind, you are officially not allowed to run Chrome OS with Play Store support on non-certified machines. In some ways or the other, you might be violating Google's terms and conditions. So, I would recommend you to sign in with a secondary Google account so that your primary account remains safe. 8. Now, you can run Android apps straight from the Play Store on your PC, how awesome is that? Not to mention, the Android framework is based on Android 9 so you are quite updated too. Note: If you are having issues with WiFi, Bluetooth, or any other hardware device on Chrome OS then go through the Troubleshooting section for help. 9. Apart from that, you can also set up Linux on your Windows-turned-Chrome OS machine. You can find the best Linux apps for Chrome OS from the linked article. Troubleshooting Chrome OS on PC If Chrome OS got installed on the wrong device i.e. on the USB stick then follow this simple tutorial to resolve the issue. Generally, the hard disk is named as sda, but on some older computers, it is named as mmcblk0 or something else. And because of this ambiguity, Chrome OS gets installed on the wrong device. So to fix the problem, here is what you need to do. Open the GParted application on Linux Mint (from the start menu) and check the name of your hard disk drive (on the top-right corner). It should be sda. If it's something else then note it down and open install.sh file using Vim editor on Linux Mint (just search in the start menu). Replace sda with the actual hard disk name in the last line. For example, if the hard disk name is mmcblk0 then /dev/sda in the last line should change to /dev/mmcblk0. Now, save the file and execute the install.sh file and it should install Chrome OS on your hard disk. In case, you are unable to edit the install.sh file on Linux Mint, go back to Windows and download Notepad++ (Free). From there, you can edit the file easily. Make sure to open "Edit" from the menu bar and then choose "EOL Conversion". After that, choose "Unix" and save the file. Now, execute "install.sh" in Linux Mint and you will have no issues. In case, you are getting an entirely new error like syntax error near unexpected token '\$r' while running the script then open the chromeos-install.sh file using Notepad++ on Windows 10. chromeos-install.sh file will be available under the "Chrome OS" folder that you moved to the USB drive. After that, follow the same steps as above and change the formatting option to Unix on Notepad++. Open Edit -> EOL Conversion -> Unix and save the file. Now, go ahead with the installation. If you are having issues with WiFi, Bluetooth, touchscreen display, etc. then you can try adding support for your specific hardware device from the Crosh terminal. Just open Chrome and press Ctrl + Alt + T to open the Crosh terminal. After that, enter shell and hit enter. Now, run sudo edit-grub-config. Here you can add support for your hardware device. You can find the complete list of commands from here. For example, if you have an RTL3290RT3298LE Bluetooth device then you can add "options=rtbh" (with quotes) at the end of "crosh debug" and before loop max.... Now, press Ctrl + X and press "Y". Next, hit enter to save the file. Finally, restart your computer, and this time Bluetooth should work fine. Similarly, if you want to fix WiFi then first you need to find out the manufacturer of the wireless card. If it's Broadcom then add to the same line like this: "options=rtbth,broadcom, wl". This will fix both Bluetooth and WiFi issues. You can remove rtbth if Bluetooth is already working for you. Similarly, if it's Realtek then add "options=rtbth,rtl8188eu" or "options=rtbth,rtl8821ce". Basically, you can add support for hardware devices in this fashion: "options=option1,option2,..." (without spaces) to activate them. Install Chrome OS Flex If the reason you're thinking of installing Chrome OS on your Windows 11 PC is that your laptop is getting bogged down with age, you should definitely take a look at Chrome OS Flex. We have a dedicated guide on how to install Chrome OS Flex on Windows PC that you can follow to get Chrome OS running on any laptop out there. Install Chrome OS on PC in 2022 and Enjoy Android and Linux Apps So that is how you can install Chrome OS on PC and get all the perks including Google Play Store and Linux support. I tested Chrome OS on my decently-specced Windows laptop (Intel i5) and it was simply flying without any hiccup. The performance difference was amazing, to say the least. To learn more about the advantage of Chromebooks over Windows laptops, you can go through our in-depth article. And in case, you have made your mind to stick with Chrome OS then make sure to take advantage of Linux apps. It's pretty good and works like a charm. Also, if you miss Windows apps then you can use Wine to run Windows apps on Chrome OS. Anyway, that is all from us. If you are facing any problem while installing Chrome OS on your PC then comment down below and let us know. We will surely try to help you out.

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