

Chromebook Pixel (2013) Ubuntu Installation Guide

1. Boot the chromebook by holding the **power button + esc + refresh key**. (make sure you keep these keys held down for a few extra seconds after the device turns on)
2. When the device boots it will show an error screen saying the OS is missing or damaged. Press **ctrl+d**.
3. A screen will ask if you want to disable OS protection. Press **enter**.
4. Another screen will tell you OS verification is off. Press **ctrl+d** and the machine will enter developer mode. This takes about 20 minutes.
5. Now make sure the chromebook is off and follow this guide to remove the write protect screw:

<https://www.ifixit.com/Guide/Remove+the+Write+Protect+Screw/86362>

Use a plastic tool when opening the case to avoid scratching the metal.

Make sure to remove this screw and the gold washer:



6. Put the chromebook back together.
7. Now boot the chromebook and press **ctrl+d** at the OS verification screen to enter developer mode.
8. In ChromeOS open the chrome browser and press **ctrl+alt+t** to open a terminal.
9. In the terminal enter:
>Shell

Then enter this (as one line):

```
>cd; curl -LO https://mrchromebox.tech/firmware-util.sh &&  
sudo bash firmware-util.sh
```

10. A menu like this should open up:

```
ChromeOS Firmware Utility Script  
(c) Mr Chromebox <mrchromebox@gmail.com>  
*****  
** Device: Acer C720/C720P Chromebook (PEPPY)  
** CPU Type: Intel Haswell  
** Fw Type: Full ROM / UEFI (MrChromebox 02/21/2017)  
** Fw WP: Disabled  
*****  
** 1) Install/Update RW_LEGACY Firmware  
** 2) Install/Update BOOT_STUB Firmware  
** 3) Install/Update Full ROM Firmware  
** 4) Set Boot Options (GBB flags)  
** 5) Set Hardware ID (HWID)  
** 6) Remove ChromeOS Bitmaps  
** 7) Restore ChromeOS Bitmaps  
** 8) Restore Stock BOOT_STUB  
** 9) Restore Stock Firmware (full)  
**  
** U) Unlock Disabled Functions  
*****  
Select a menu option or  
R to reboot P to poweroff Q to quit
```

Press **3** then **enter**. Follow instructions until the process is finished then power off the chromebook.

11. Now insert a USB with your ubuntu ISO loaded onto it and power up the machine.
12. Install ubuntu normally and power off the machine.
13. When you power on the machine, a terminal will open up. Type **exit**.
14. In the BIOS go to **Boot Maintenance Manager > Boot From File > No Volume Label** (the first one) > **EFI > ubuntu > grubx64.efi**

15. In Ubuntu, open a terminal and enter:

```
>sudo bash
```

And enter your password.

16. Then enter:

```
>cp -a /boot/efi/EFI/ubuntu/. /boot/efi/EFI/BOOT
```

17. Then enter:

```
>cp /boot/efi/EFI/BOOT/grubx64.efi  
/boot/efi/EFI/BOOT/BOOTX64.efi
```

Now you're done! When you restart the device it should automatically boot into ubuntu.

Because the DPI on chromebooks is so high, you might want to increase the scale for menu and title bars in the display settings.