

# Devices and Tech

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# Samsung Galaxy S3 Tab

Galaxy Tab S3 is a 10 inch (9.7") tablet released in 2017.

## Installing TWRP

1. To install TWRP on the device it's best to use [this chap's release](#) and install via Heimdall:
2. `apt-get install heimdall-flash`
3. Once you have the files ready to go, put the tablet into download mode with Power + Vol Down + Home (hold for 10 seconds).
4. 

```
heimdall flash --RECOVERY ./Downloads/twrp-3.6.0_9-0-gts3lwifi.img --no-reboot
```
5. It's important to now reboot straight into recovery so that the old recovery partition is not recovered - Power + Vol Up + Home
6. Swipe to install TWRP

## LineageOS

- Use LineageOS 19 [this release](#) is most stable
- Using [NikGApps](#) 12.1 (SL)
- From TWRP install the zip files.

# NeoVim

NeoVim is a new super configurable version of the VIM editor.

I've been learning to configure and customise it for my own use. I used the following tutorials:

- <https://scribe.citizen4.eu/geekculture/neovim-configuration-for-beginners-b2116dbbde84>

I also really like these plugins:

## Powerline

Lualine adds a status bar at the bottom of VIM that shows you what's going on - its pretty neat. You need to install [powerline fonts](#) on the system. On Debian-based systems you can run `apt-get install fonts-powerline`

- <https://github.com/nvim-lualine/lualine.nvim> (you also need [powerline fonts](#) for this)

# Online Reading and Feeds

## RSS

I use [FreshRSS](#) to manage my feeds for me and the associated Android client for on the go. On the desktop I use [NewsFlash](#) reader which can also subscribe to FreshRSS

## Read it Later App

I use Wallabag to store articles I want to read later and the accompanying android app for on the go. I use [Read it Later](#) for Wallabag stuff on desktop and [the Firefox plugin](#) for quickly adding things to my to read list.

# Firefox on Ubuntu 22.04 Non Snap

In the latest Ubuntu they made Firefox a snap instead of just installing via deb. [This walkthru](#) tells you how to undo it.

In summary:

```
sudo snap remove firefox

sudo add-apt-repository ppa:mozillateam/ppa

echo '
Package: *
Pin: release o=LP-PPA-mozillateam
Pin-Priority: 1001
' | sudo tee /etc/apt/preferences.d/mozilla-firefox

echo 'Unattended-Upgrade::Allowed-Origins:: "LP-PPA-mozillateam:${distro_codename}";' | sudo
tee /etc/apt/apt.conf.d/51unattended-upgrades-firefox

sudo apt install firefox
```

# Hugo Static Site Generation

I use Hugo to maintain most of my websites.

## Extended Edition

Hugo has an extended version which includes hooks for building SASS. [Hugo recommend using snaps to manage and install versions of their tool](#) rather than relying on debian packages since these can often be out of date.

# Zellij

- [Zellij](#) is a Golang terminal workspace + multiplexer - its a bit like tmux on steroids
- Featured in charm interview <https://www.youtube.com/watch?v=mdp9LCUdtJw>

# Dell XPS 13 9305

I had one as my daily driver at work from late 2020 to late 2023. I was so pleased with it I bought one for home/personal use too. Dell [no longer make this laptop](#).



## Managing and Limiting Battery

I used [dell-charge-limit](#) to automatically stop charging at 80% and preserve battery life

# LaTeX

LaTeX is a powerful typesetting system that renders books and has specific markup for mathematics

LaTeX

# Angle Brackets (Greater Than, Less Than) show as upside down question and exclamation marks

This is an issue when `<>` render incorrectly, it can look very weird.

## Check your encoding

According to [this post](#) ([mirror](#)), it could be as simple as not using the correct encoding and can be remedied with the correct package being included in the document:

```
\usepackage[T1]{fontenc}
```

# De'Longhi Dedicca

I've had my trusty dedica machine for over 11 years. It has taken a battering over the years but I still enjoy using it.

[Dedica EC680.M Manual.pdf](#)

# XTEInk4

The XTEInk4 is a budget e-ink ebook reader that is smaller and thinner than a modern smartphone.

## Crosspoint Reader

On [Github](#)

This is a community-provided open source reader firmware for the XTEink4 that can be flashed via the web flasher.

# Ravpower Filehub RP-WD009

[Manufacturer's Manual](#)

## Installing OpenWRT

You can install OpenWRT on Ravpower Filehub - instructions can be found [on the OpenWRT Wiki here](#) and [archived here](#)

# Samsung Chromebook XE303C12

## First generation chromebook from Samsung in 2012.

- Cannot boot from the USB 3.0 port (blue) - USB boot is only available from the 2.0 port.
- Press CTRL + U to boot from USB or CTRL + D to boot from internal disk
- low beep indicates that the machine cannot find a bootable image on the USB drive
- Check that you have run `sudo crossystem dev_boot_usb=1 dev_boot_signed_only=0` - the signed image flag is important and making sure it is low (set to 0) is key.

### After a Flat Battery

The crossystem values go back to default so you have to redo the steps above to enable dev boot and disabled signed boot.

### ArchLinux ARM

[See Samsung Chromebook](#)

### LinARM Images

see [Linarm](#)