Free Software

And the communities behind IT

Phil Bass, January 2025

Phil's Tips:

1. Never Buy a Cheap Computer

Because in 3 or 4 years it will be slow, and you'll be tempted to buy a new one.

2. Never Buy Software

Because there is always a free app that does (more or less) what you want. I will show you some of them in this presentation.

Operating Systems

- Two PC ecosystems:
 - Microsoft Windows
 - The Unix Family
- Apple's MacOS & iOS, Google's ChromeOS & Android, and Linux are all varieties of Unix.
- The Unix family runs on two thirds of the PCs, laptops, tablets and smartphones in use today.
- Three quarters of Internet servers run Linux.
- Overall, Windows is in a minority!



- Linux is the free version of the Unix OS.
- It was written by Linus Torvalds in 1991.
- It runs on phones, tablets, laptops, desktops ...
- All the supercomputers in the world run Linux.
- It can revitalise an old Windows machine.

- Strictly speaking, Linux is just the OS kernel
- Linux distributions come with the GNU utilities
- There are many distributions:
 - e.g. Ubuntu, Debian, Mint ...
- They come with a different selection of utilities
- A Linux app runs on all distributions

- The basic utilities are included in your installation:
 - File Manager
 - Email app
 - Web Browser
 - Office Suite (word processor, spreadsheet ...)
 - Contacts, Calendar, Notes, Package Manager, etc.
- And you can add many more.

"Quality was maintained not by rigid standards or autocracy but by the naively simple strategy of releasing every week and getting feedback from hundreds of users within days, creating a sort of rapid Darwinian selection on the mutations introduced by developers."

Linux Mint

The desktop and apps window, running from a USB stick.

Clicking the CD icon installs Mint on the PC's hard disk/SSD.





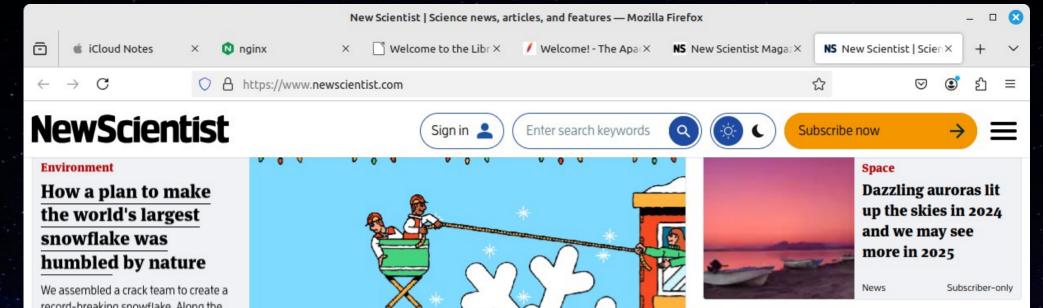
Firefox

- Firefox is a child of the Netscape web browser
- It was started in 2002 and first released in 2004.
- It became significantly faster in 2017
- It is owned by the non-profit Mozilla Foundation
- It prides itself on privacy, security and speed

Firefox

"Ads are distracting and make web pages load slower while their trackers watch every move you make online. The Firefox Browser blocks most trackers automatically, so there's no need to dig into your security settings."

- The Firefox website



We assembled a crack team to create a record-breaking snowflake. Along the way, we learned just how impressive the natural kind really are

Features

Subscriber-only







Technology
What are the
mystery drones
flying over the US?

Free













Space

Humans

Technology
Life
Technology
https://www.newscientist.com/article/mg26435213-200-how-a-plan-to-make-the-worlds-largest-snowflake-was-humbled-by-nature/



Thunderbird



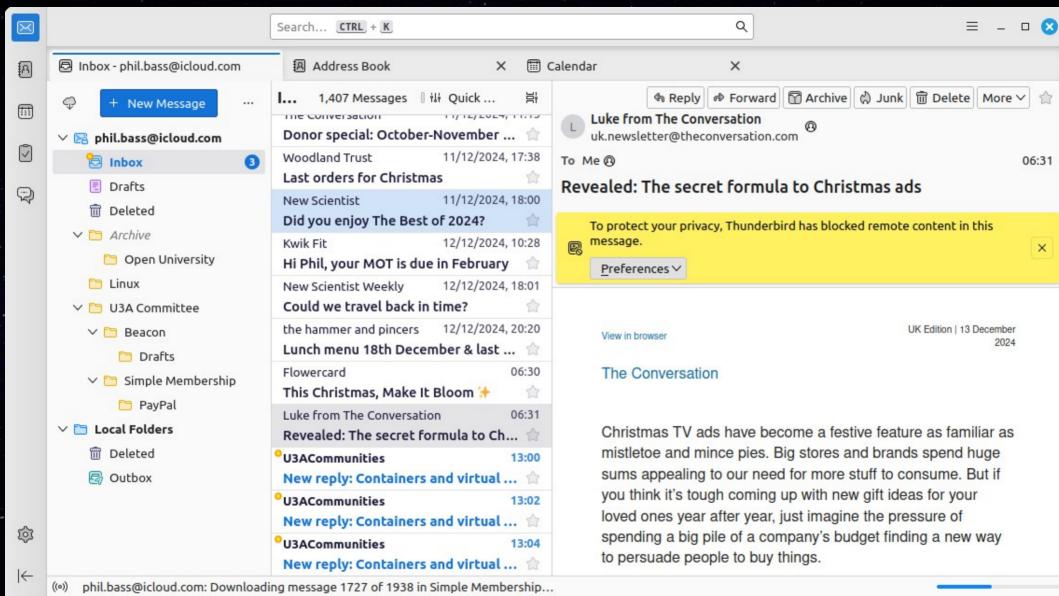
Thunderbird

- Thunderbird is a fully-featured email client.
- It was first released in 2003.
- It is owned by the non-profit Mozilla Foundation.
- It prides itself on privacy and security.
- It is implemented as a mail interface to Firefox.

Thunderbird

"Thunderbird is funded by user donations. We don't collect personal data, sell ads in your inbox, or secretly train Al with your private conversations. Thunderbird is open source. As part of the Mozilla family you can be confident we always put your privacy and security first."

- The Thunderbird website





LibreOffice

- LibreOffice is a suite of office apps:
 - Writer word processor
 - Calc spreadsheet app
 - Impress presentation editor
 - Draw, Base, Math
- It was forked from OpenOffice in 2010.
- It is owned by the non-profit The Document Foundation.

A Sample Video



More Shining Examples

Apache
 Web Server

Nginx
 Web Server

MariaDB
 Database

MuseScore
 Music Score Editor

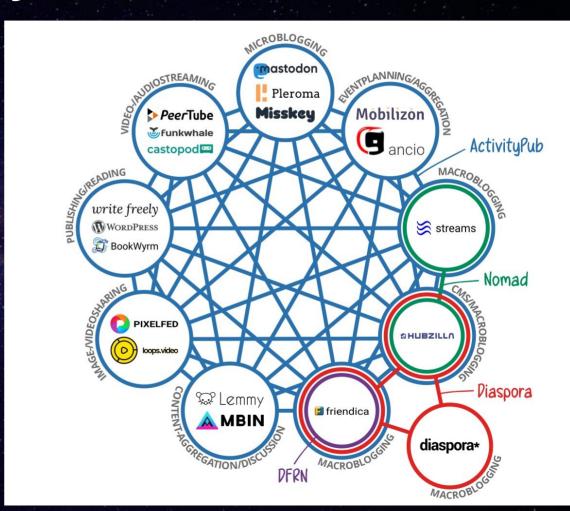
DaVinci Resolve
 Video Editing App





The ActivityPub Protocol

- Social Media
- Micro Blogging
- Macro Blogging
- Photo Sharing
- Video Sharing
- Content Management
- Content Aggregation



Mastodon

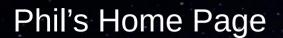


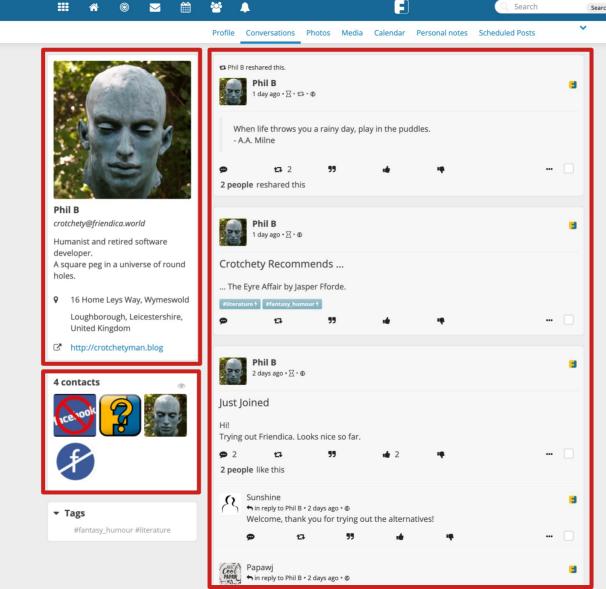
- Decentralised Microblogging
 - Social networking service
- An alternative to X/Twitter
 - 'Toots' instead of 'Tweets'
- 500 character posts
- Server-specific moderation

Friendica



- Decentralised Microblogging
 - Social networking service
- An alternative to Facebook
 - Friends & Newsfeeds
- Multiple profiles/uses
- Extensible via plugins
- crotchety@friendica.world





Pixelfed



- Decentralised Photo Sharing
- An alternative to Instagram
 - But with no tracking or adverts
- Albums
- Likes and Comments
- Direct Messaging

Peertube



- Decentralised Video Sharing
- An alternative to YouTube
 - But with no tracking or adverts
- A network of servers
- Per-server moderation

WordPress

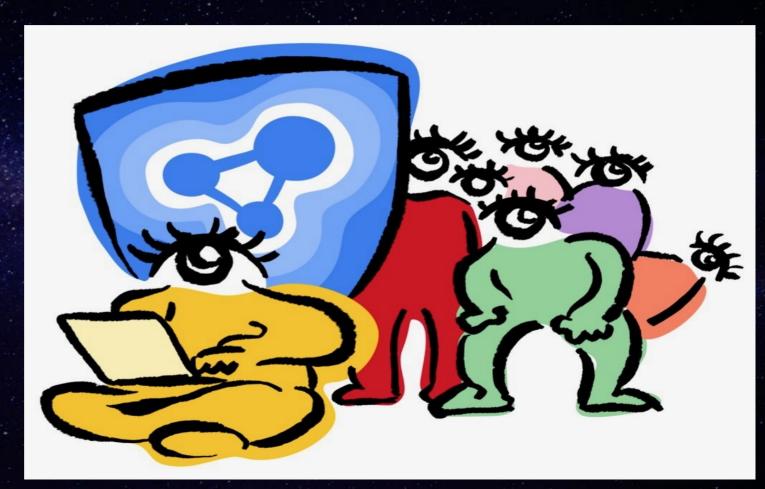


- #1 Blogging Service
- Also a website builder
- Supports ActivityPub
 - For connection to the Fediverse
 - But only on \$40/m Business Plan
- Extensible via many plugins

Hubzilla Does It All

- Social
- Blogs
- Photos
- Music
- Websites
- Forums
- Calendar
- Files

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Comparison Table - 1

	♥ Hubzilla	@ Mastodon	Threads	Bluesky
Features and Content Types	Hubzilla	Mastodon	Threads	Bluesky
Social Media				
Microblogging (Short Posts - typically 500 characters or less)				
Macroblogging (Long Posts)				
Direct Messages (DMs)				
Rich Text (bold, italics, quotes, code blocks, embedded content, etc.)				
Threaded Conversations (Forum-style / Facebook-style)				
Repeats / Boosts / Reposts (send someone's post to your followers)	repeat	boost		repost
Shares / Quote Posts (create a new post quoting another post)	share share		quote post	quote post
Scheduled Posts				
Bookmark Posts				
Addons / Applications (Apps) (additional features that users can activate)				
Blog (Articles)	② арр			
Wiki (Personal or Shared Wikis)	② арр			
Web Pages (HTML, BBCode, Markdown)	0 арр			
Image Gallery				
Files (Cloud Storage)				
Events / Calendar				
Polls				
Lists (create lists of channels to follow)	privacy groups	☑ lists		☑ lists
Import RSS/Atom Feeds and Publish as a Channel				

Channel Types	Hubzilla	Mastodon	Threads	Bluesky
Public Channels	v public			
Private Channels (friends & connections only)	personal			
Community Forums / Discussion Groups	of forum			
Custom Channels with Unique Permissions	custom			
Access Control / Post Permissions	Hubzilla	Mastodon	Threads	Bluesky
Public Posts				
Posts Visible Only to Friends / Connections				
Posts Visible Only to Specific People				
Posts Visible Only to Specific Privacy Groups				
Control Membership in Forums / Discussion Groups				
Control Access to Content (Articles, Wiki, Web Pages, etc.)				
Disable Comments / Prevent Replies to Your Posts				
Block Channels / Actors				
Social Identity	Hubzilla	Mastodon	Threads	Bluesky
Cross-Platform Social Identity (recognized on multiple servers)	channel	account	oprofile	o account
Multiple Identities under the Same Login Account	channels		profiles	
Clone Identity on Multiple Servers (at same time)				
Sync Identity between Cloned Channels				
Migrate Identity to Another Server				
Download Backup of Identity (Export / Import)				
Federated Single Sign On (log into other servers with your identity)				
The state of the s				

Comparison Table - 2

Content Backups, Cloning, and Migration	Hubzilla	Mastodon	Threads	Bluesky
Sync Posts between Cloned Channels				
Migrate Content to Another Server				
Download Backup of Content (Export / Import)				
Export Content				
Networks and Protocols	Hubzilla	Mastodon	Threads	Bluesky
Nomad Network / Zot Protocol				
Magic Sign On / OpenWebAuth (OWA)				
ActivityPub	optional		optional	
AT Protocol				
Diaspora	optional			
Bridgy Fed (Multi-Protocol Bridge)	optional	optional	optional	optional
OpenID	optional			
OAuth2	optional			
Post Feeds / Syndication (RSS / Atom)	Atom	RSS		
Mobile and Desktop Apps	Hubzilla	Mastodon	Threads	Bluesky
Mobile App (including third party apps)				
Progressive Web App (PWA)				
Google Play				
Apple iOS				
Microsoft Store				
Amazon Appstore				
F-Droid		V		

Customization and Mods		Hubzilla	Mastodon	Threads	Bluesky
Dark Mode / Light Mode					
Customize Layout of Your Channel					
Select Theme for Your Channel					
Change Color Scheme of Theme (if supp	orted by the theme)				
Addons / Plugins / Apps					
Кеу					
= Supported feature.					
o = Optional feature that usually has to be activated. Some servers may have this feature disabled or limit your options.					
🔋 🔳 = Supported, but not necessarily in a way that you expect. May require advanced configuration or extra steps.					
= Supported via a Third Party.					
Note: Administrators have the option to change the configuration of their own server, which may effect the features that are available to users.					

Hubzilla's Stream

- Post List
- Selected Post
- Content
- Notices



Hubzilla as an App

On a mobile device, you can use Hubzilla like an ordinary app. To make this work, visit the Hubzilla website, sign in, and tell your web browser to 'Add to home screen'.



The Pros and Cons

- 1. Cost (Photoshop, Adobe's PDF Editor, Sibelius & Finale)
- 2. Quality (Functionality, Aesthetics, Intuitiveness)
- 3. Support (Apple ✓, Linux ✓?, Google ?, Microsoft 🗡)
- 4. Platforms (Windows, MacOS, Android, Linux)
- 5. Familiarity (MS Word, Facebook, etc.)
- 6. Control (mega-corporation or individual user)

Greed vs Altruism

"It is better to give than to receive."

Which I interpret as:

"It is better to give your time, money, skills and wisdom to others than to encourage others to give their time, money, skills and wisdom to you."

