

Free Software: What Can It Do For You?

- Presented by Adam Hunt



Full Circle

THE INDEPENDENT MAGAZINE FOR THE UBUNTU LINUX COMMUNITY



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A presentation for

- **The Ottawa PC Users' Group**

OPCUG



Users helping users
for over 40 years

No need to take notes!

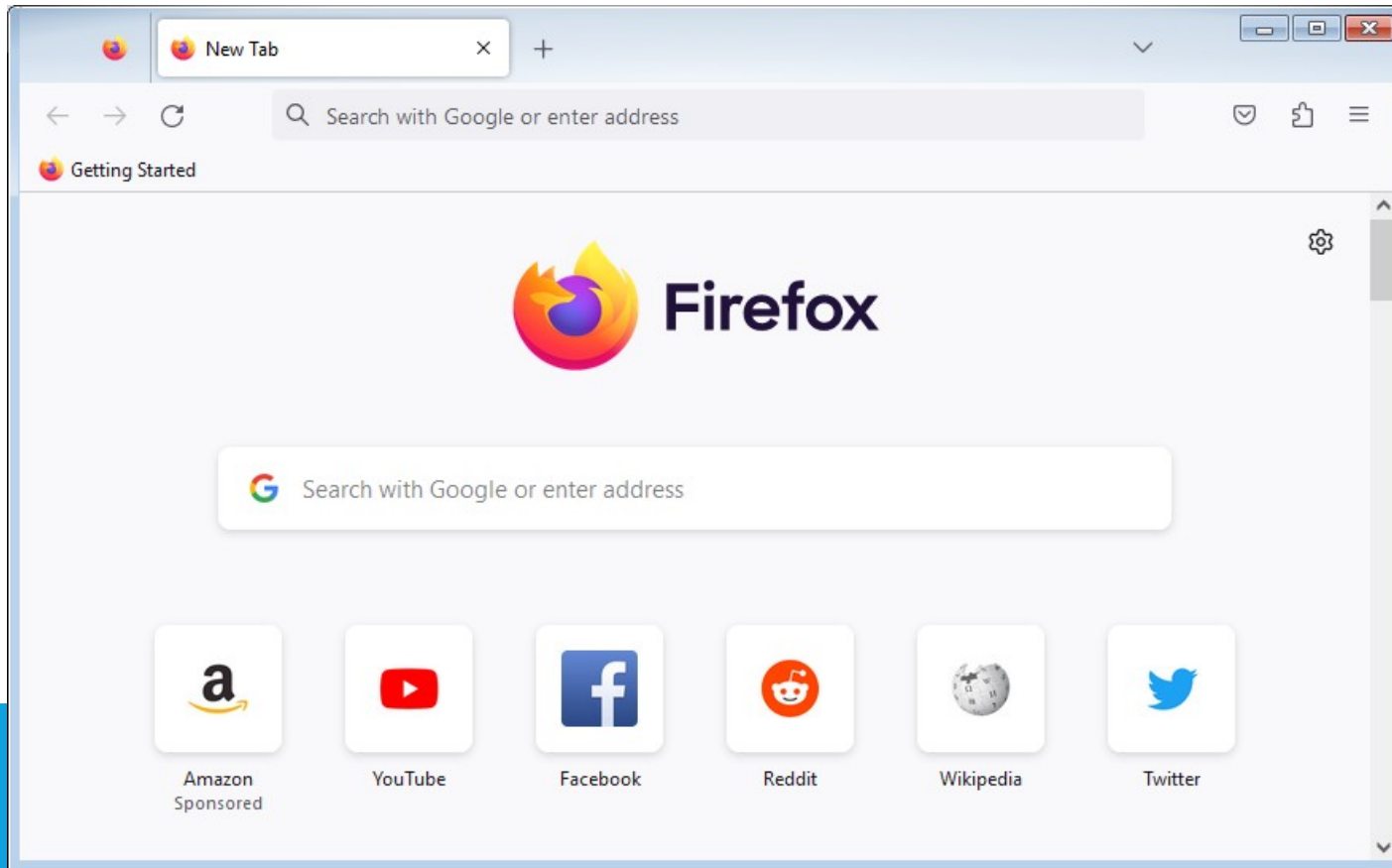
- Resources:
 - PDF sheet of links
 - PDF copy of this presentation

OPCUG



Users helping users
for over 40 years

You may already be using free software!



In fact you probably are!

- Many popular applications are free software, like Firefox
- Most DSL and cable modems run on Linux
- Android phones are Linux
- Most of the internet's web servers run Apache on Linux

Been on an airplane?

- Nav Canada's weather and ATC systems are all run on:
 - Red Hat Linux



Even my TCL Flip phone

- Runs AOSP (Android Open Source Project)
- Which is Linux
- Plus:
 - Smart thermostats
 - Smart fridges
 - Etc...



Lots of software is available for free

- Free as in “free beer”
- Free as in “freedom”
- In French there is:
 - Gratuit – no cost
 - Libre - freedom

So what is free software?

- Proprietary software - \$ (like Microsoft Office)
- Proprietary freeware (like Google Chrome)
- Proprietary shareware:
 - Adware, Crippleware, Trialware, Nagware, Freemium

Free software

- Free Software Foundation definition:
- The freedom to run the program as you wish, for any purpose (freedom 0)
- The freedom to study how the program works, and change it so it does your computing as you wish (freedom 1). Access to the source code is a precondition for this.
- The freedom to redistribute copies so you can help others (freedom 2).
- The freedom to distribute copies of your modified versions to others (freedom 3). By doing this you can give the whole community a chance to benefit from your changes. Access to the source code is a precondition for this.



FREE SOFTWARE
F O U N D A T I O N

Free Licences

- Gnu Public Licence
- BSD Licence
- Mozilla Public License
- Many others
- Licensing matters!



Free Software

- Let's look at:
 - Some applications available for Windows
 - Some free software operating systems

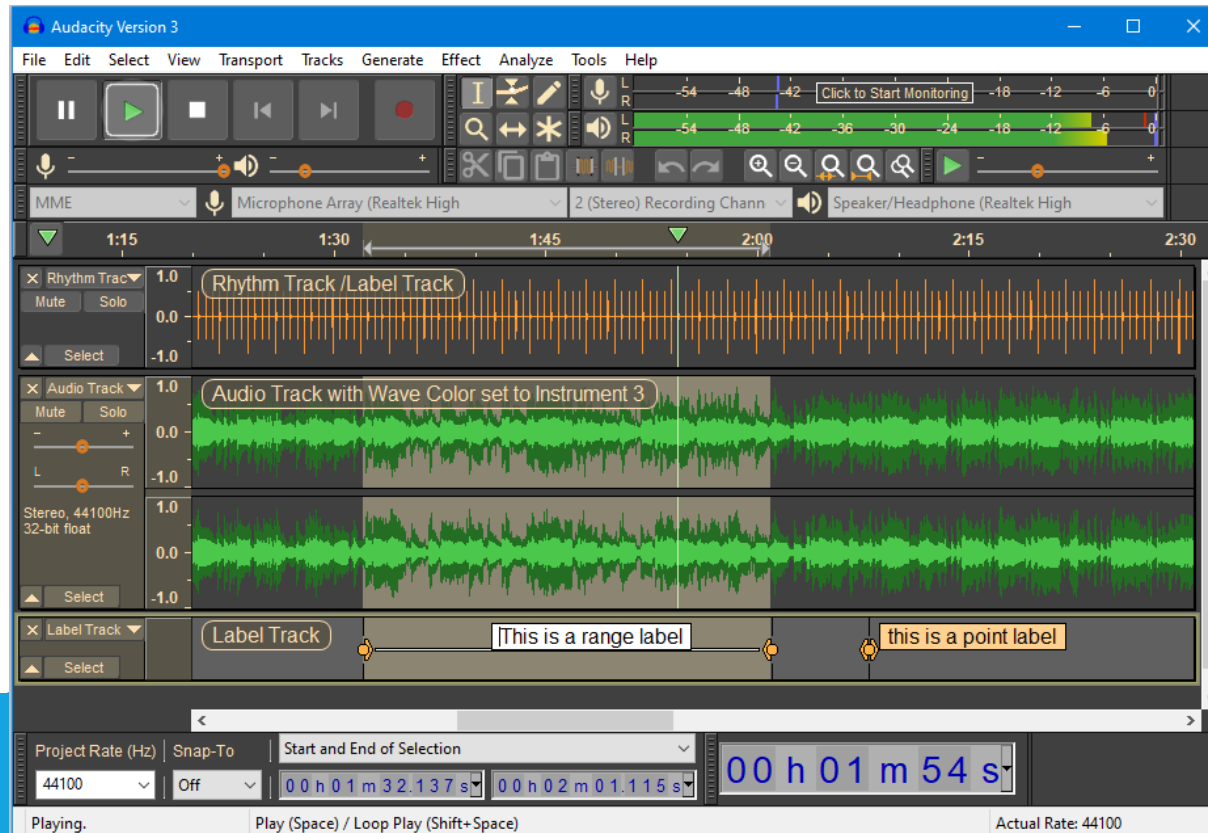
Free Software for Windows

- There are 1,000s of free software applications for Windows users
- For any just about purpose
- Most are better designed and work better than proprietary software
- Freely audited code
- No spyware, ads or malware
- Some are professional projects, some are volunteer

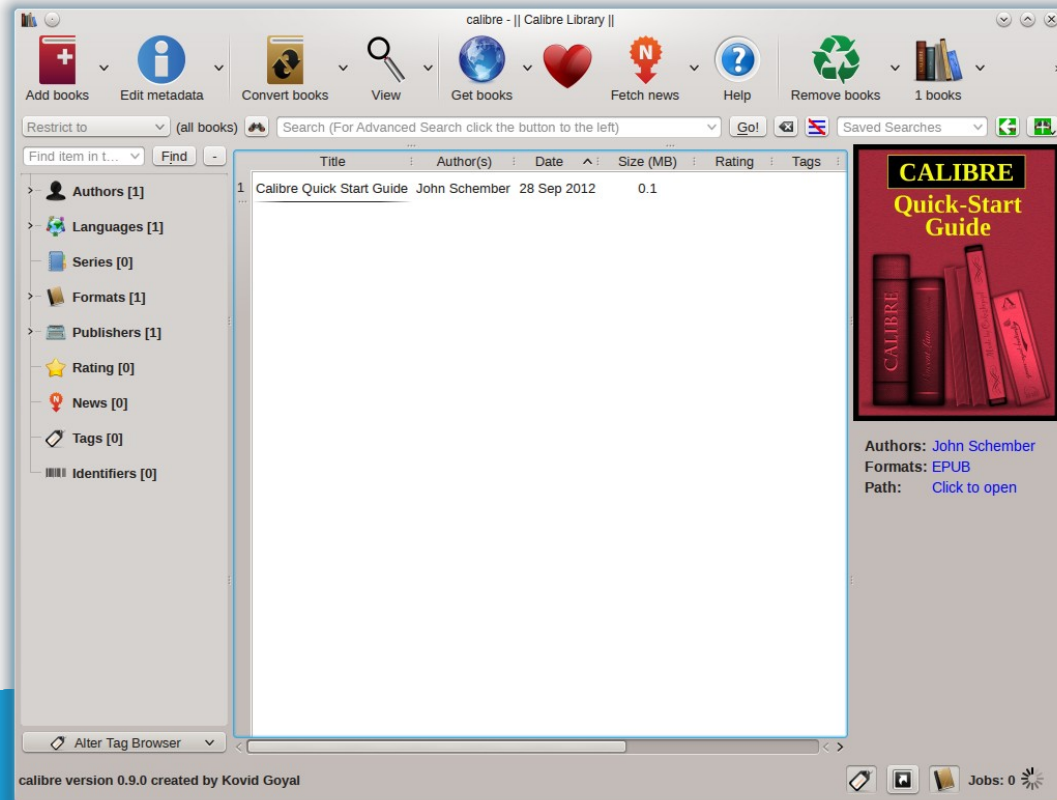
Free software applications for Windows

- Let's look at 28 applications for Windows
- All have been tested and recommended by
 - Me
 - Or
 - The National Capital FreeNet Free Software Group

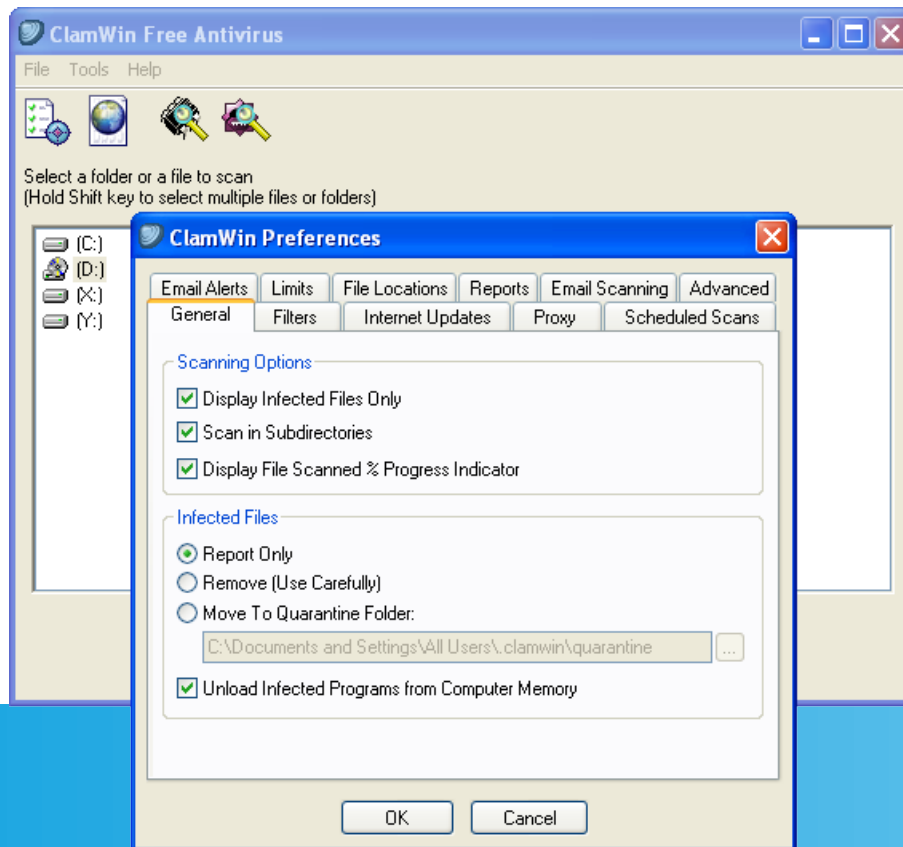
Audacity



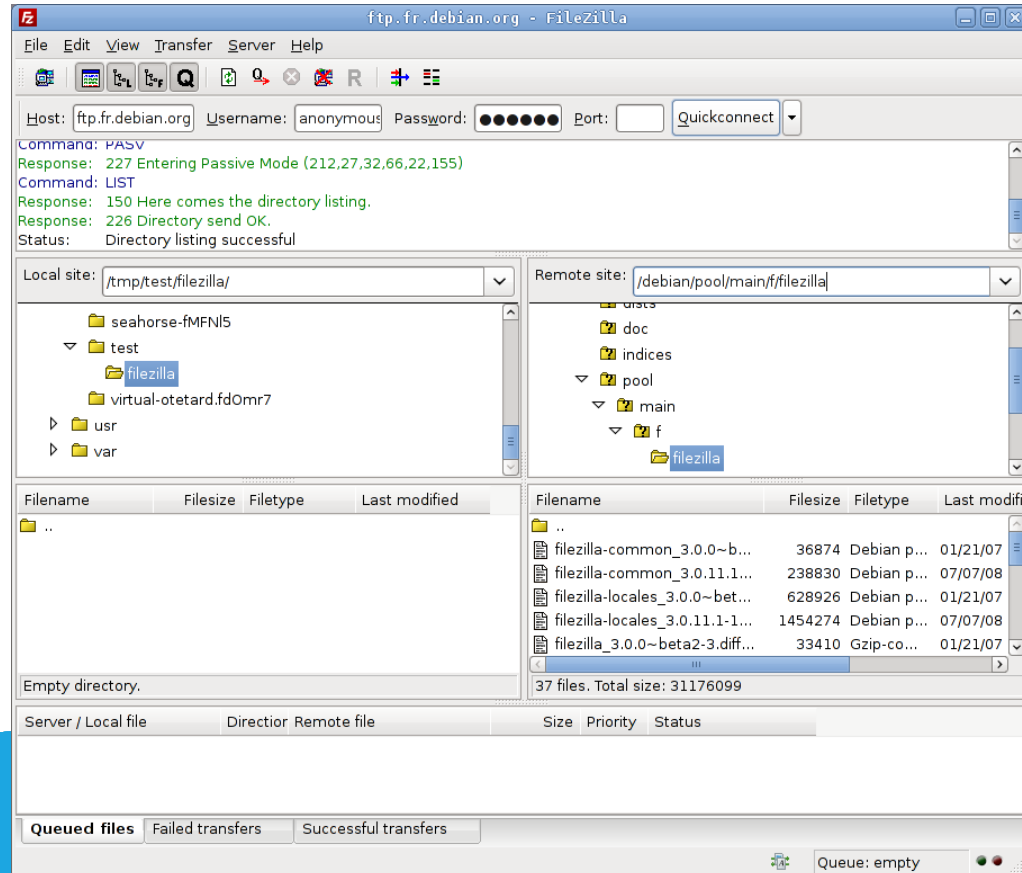
Calibre



ClamWin



FileZilla



Firefox

The screenshot shows the Wikipedia page for Mozilla Firefox. The browser window has a dark theme. The Wikipedia page title is "Mozilla Firefox" with a language dropdown set to "127 langues". The left sidebar contains a table of contents with sections like "Sommaire", "Début", "Philosophie", "Fonctionnalités", "Versions", "Plates-formes", "Organisation et financement", "Part de marché", "Histoire", "Recommandations", "Notes et références", and "Annexes". The main content area has a search bar and a "Rechercher sur Wikipédia" button. Below the title, there are links for "Article", "Discussion", "Lire", "Modifier", "Modifier le code", and "Voir l'historique". A red note indicates that "Firefox" redirects to this page. A star icon indicates the article is a "good article" from 2008. The main text describes Firefox as a free and open-source web browser for PC and mobile, developed by Mozilla. It mentions its success, surpassing 1.2 billion downloads in 2010, and its status as the most used browser in Europe. A download window for "Firefox Browser" is overlaid on the page. It features the Firefox logo and text: "À propos de Mozilla Firefox", "Firefox est à jour", "110.0 (64 bits)", "Notes de version", "Aide de Firefox", "Donner votre avis", "Firefox est conçu par Mozilla, une communauté mondiale de contributeurs qui travaillent ensemble pour garder le Web ouvert, public et accessible à tous.", "Vous souhaitez aider ? Vous pouvez faire un don ou bien participer", "Informations de licence", "Droits de l'utilisateur", "Politique de confidentialité", and "Firefox et les logos Firefox sont des marques déposées de la Mozilla Foundation."

Mozilla Firefox

Article Discussion Lire Modifier Modifier le code Voir l'historique

« Firefox » redirige ici. Pour les autres significations et les articles homonymes, voir [Firefox \(homonymie\)](#) et [Mozilla](#).

★ Vous lisez un « *bon article* » labellisé en 2008.

Mozilla Firefox ^[moˈzila ˈfɛɹəfɔks]^{Note 1} est un navigateur web libre et gratuit disponible pour PC (Windows, macOS, Linux, BSD, etc.) et mobiles (Android, iOS), développé et distribué par la Mozilla Foundation depuis 2003, avec l'aide de milliers de bénévoles. L'entreprise Mozilla Corporation est créée en 2005 pour se charger du développement.

Firefox a connu un succès croissant, dépassant 1,2 milliard de téléchargements en janvier 2010, devenant le principal concurrent d'Internet Explorer. En décembre 2010, Firefox devient le navigateur le plus utilisé en Europe devant Internet Explorer et Google Chrome.

Depuis 2010 et l'essor de la navigation sur smartphones, Firefox a vu sa [part du marché](#)

Mozilla Firefox

Firefox Browser

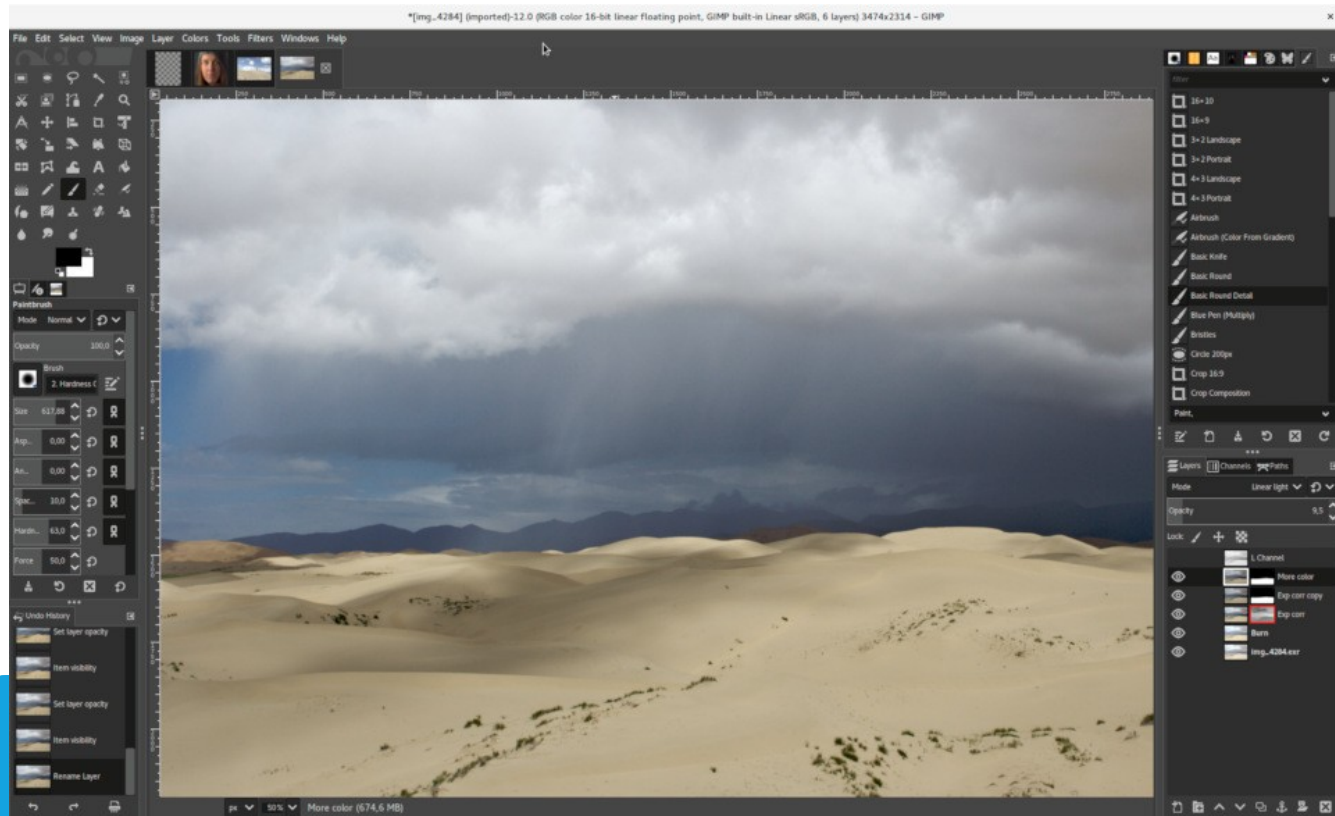
Firefox 100.0 sur Microsoft Windows 10

Informations

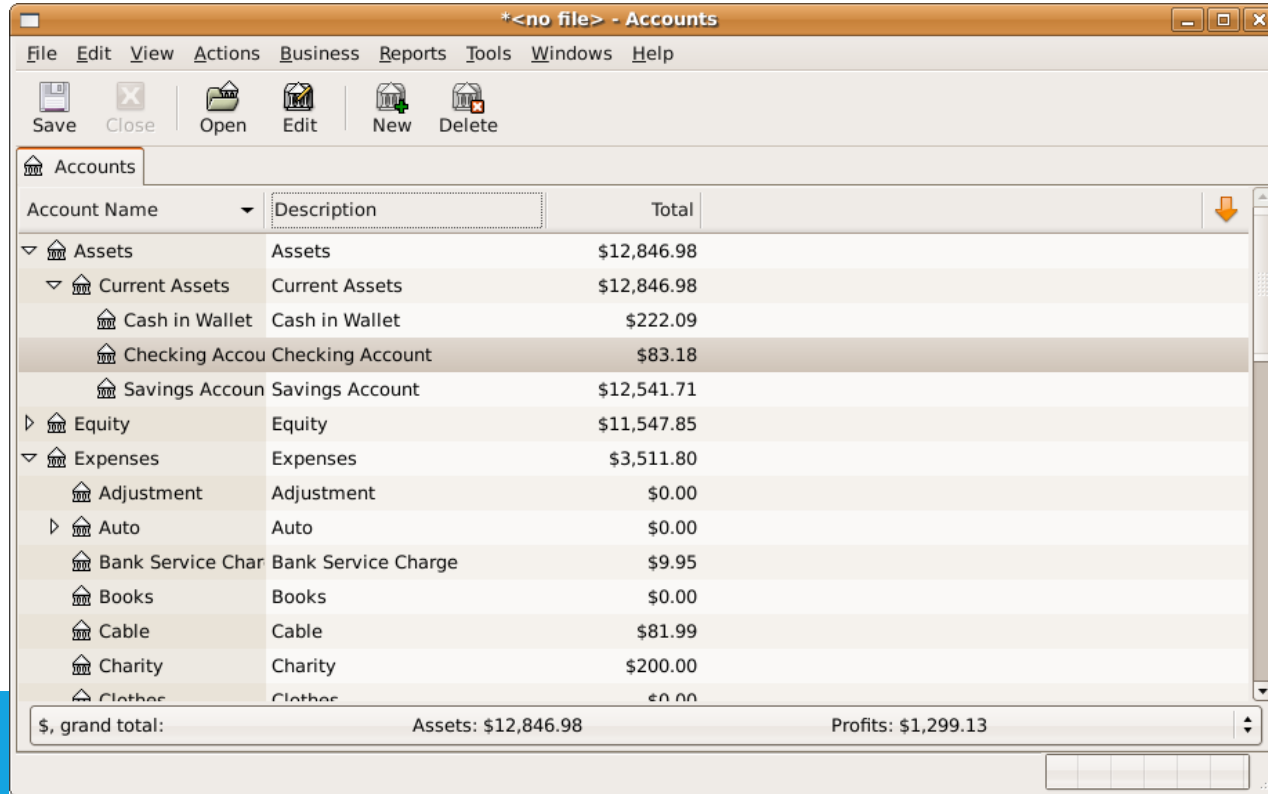
Créateur	Mozilla Foundation, David Hyatt, Joe Hewitt ^(en) et Blake Ross
Développé par	Mozilla Corporation et Mozilla Foundation
Première version	0.1 (23 septembre 2002) ¹
Dernière version	110.0 (14 février 2023) ² 102.8.0esr (14 février 2023) ³
Dépôt	hg.mozilla.org/mozilla-central et searchfox.org/mozilla-central /source
État du projet	Développement actif
Écrit en	C, C++, JavaScript, CSS, Rust et XML-based User interface Language

GIMP

(GNU Image Manipulation Program)



GNUCash



The screenshot shows the GNUCash 'Accounts' window. The title bar reads '*<no file> - Accounts'. The menu bar includes File, Edit, View, Actions, Business, Reports, Tools, Windows, and Help. The toolbar contains icons for Save, Close, Open, Edit, New, and Delete. The main area displays a tree view of accounts with columns for Account Name, Description, and Total. The tree is expanded to show the following structure:

Account Name	Description	Total
Assets	Assets	\$12,846.98
Current Assets	Current Assets	\$12,846.98
Cash in Wallet	Cash in Wallet	\$222.09
Checking Account	Checking Account	\$83.18
Savings Account	Savings Account	\$12,541.71
Equity	Equity	\$11,547.85
Expenses	Expenses	\$3,511.80
Adjustment	Adjustment	\$0.00
Auto	Auto	\$0.00
Bank Service Charge	Bank Service Charge	\$9.95
Books	Books	\$0.00
Cable	Cable	\$81.99
Charity	Charity	\$200.00
Clothes	Clothes	\$0.00

At the bottom of the window, a summary bar shows: \$, grand total: Assets: \$12,846.98 Profits: \$1,299.13

Gramps

Family Trees Add Edit View Go Bookmarks Reports Tools Help

Dashboard
People
Relationships
Families
Charts
Events
Places
Geography
Sources
Citations
Repositories
Media
Notes

Filter Descendants

Name	Birth
Garner von Zielinski, Lewis An...	1855-06-21
Garner, Eugene Stanley	1895-12-01

About grampsw.exe



grampsw.exe
GrampsAIO32-5.0.1-1
Gramps
(Genealogical Research and Analysis Management Programming System)
is a personal genealogy program.

GRAMPS: GrampsAIO32-5.0.1-1
Python: 3.6.4 (default, Jan 23 2018, 13:40:26) ...
BSDDB: 6.1.0 (6, 0, 30)
sqlite: 3.21.0 (2.6.0)
LANG: en_GB.UTF-8
OS: Windows

[Gramps Homepage](#)
© 2001-2006 Donald N. Allingham
© 2007-2018 The Gramps Developers

Credits Licence Close

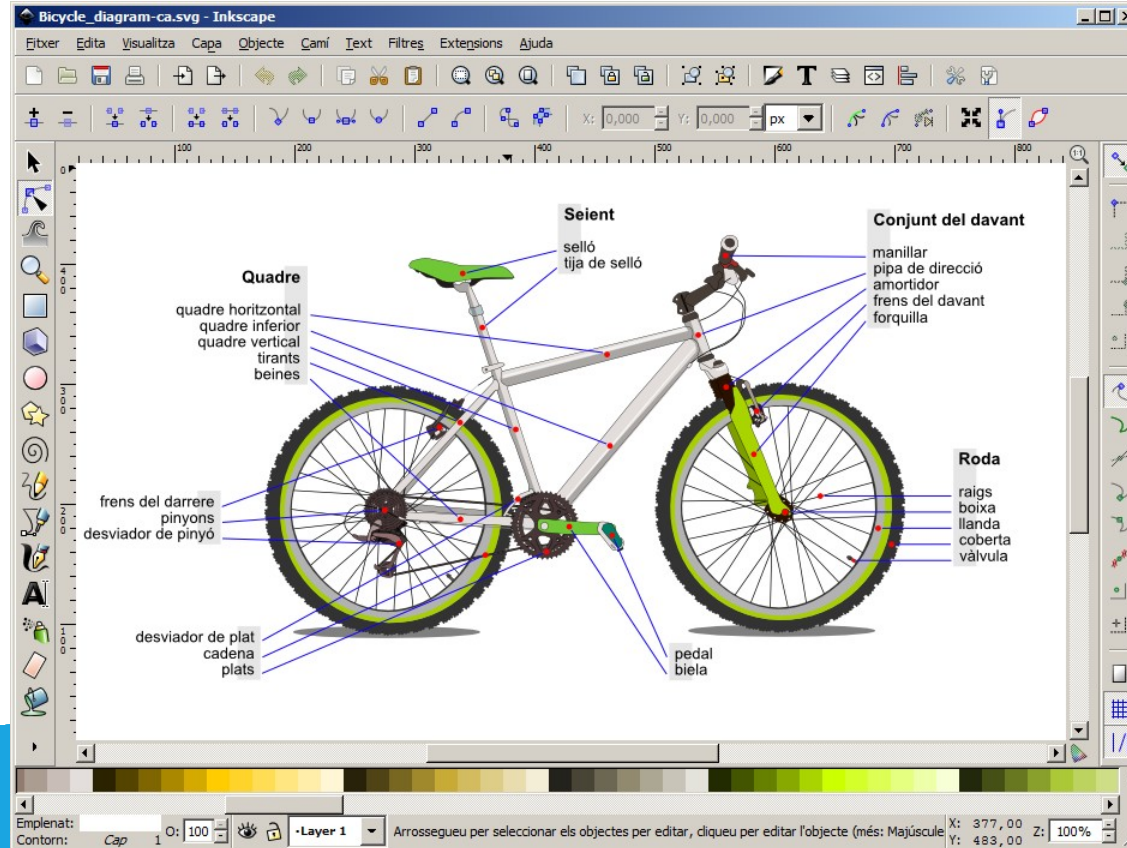
Given Name Cloud

?? A. Adam Alice Allen Andrew Ann Anna Anne Arthur B. Barbara
C. Catherine Charles Christopher Col. D. Daniel David Dorot
Eleanor Elizabeth Ellen Eugene Everett Frances Francis Gail G
Hannah Hans Helen Henry Honora Huoh Irene I. Jacob James la

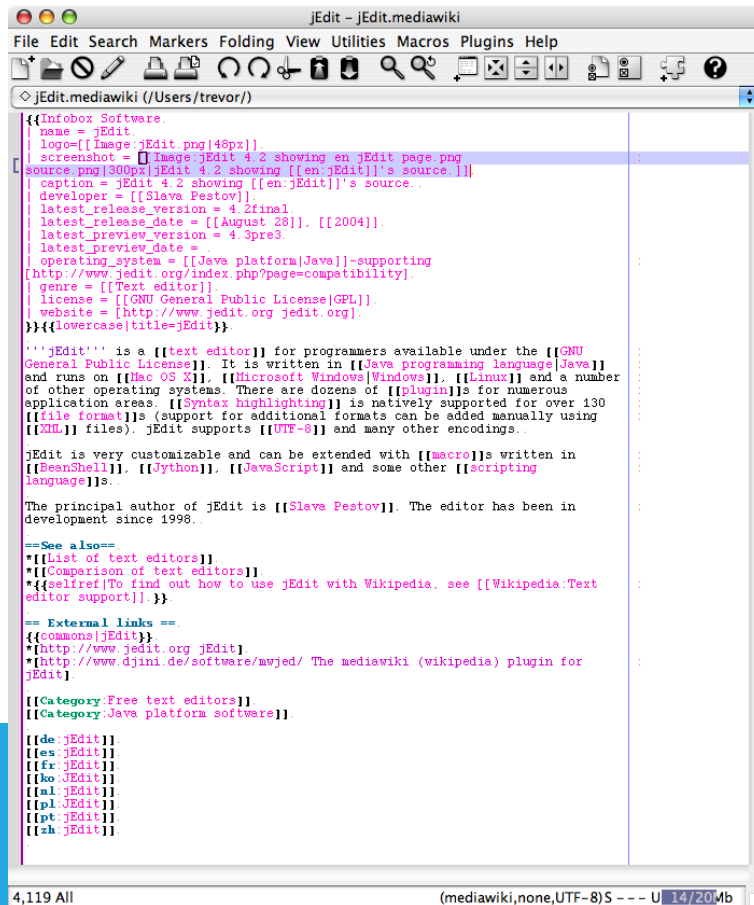
[10044] Garner von Zielinski, Lewis Anderson Sr

Families: 762/762

Inkscape



jEdit



```

{{Infobox Software
| name = jEdit
| logo=[[Image:jEdit.png|48px]].
| screenshot = [[Image:jEdit 4.2 showing en jEdit page.png
| source.png|300px|jEdit 4.2 showing [[en:jEdit]]'s source.]]
| caption = jEdit 4.2 showing [[en:jEdit]]'s source..
| developer = [[Slava Pestov]]
| latest_release_version = 4.2final
| latest_release_date = [[August 28]]. [[2004]].
| latest_preview_version = 4.3pre3.
| latest_preview_date = .
| operating_system = [[Java platform|Java]]-supporting
| http://www.jedit.org/index.php?page=compatibility].
| genre = [[Text editor]]
| license = [[GNU General Public License|GPL]].
| website = [http://www.jedit.org jedit.org].
}}{{lowercase|title=jEdit}}

'''jEdit''' is a [[text editor]] for programmers available under the [[GNU
General Public License]]. It is written in [[Java programming language|Java]]
and runs on [[Mac OS X]], [[Microsoft Windows|Windows]], [[Linux]] and a number
of other operating systems. There are dozens of [[plugin]]s for numerous
application areas. [[Syntax highlighting]] is natively supported for over 130
[[file format]]s (support for additional formats can be added manually using
[[XML]] files). jEdit supports [[UTF-8]] and many other encodings..

jEdit is very customizable and can be extended with [[macro]]s written in
[[BeanShell]], [[Jython]], [[JavaScript]] and some other [[scripting
language]]s..

The principal author of jEdit is [[Slava Pestov]]. The editor has been in
development since 1998..

==See also==
*[[List of text editors]]
*[[Comparison of text editors]]
*{{selfref|To find out how to use jEdit with Wikipedia, see [[Wikipedia:Text
editor support]].}}.

== External links ==
{{Commons|jEdit}}
*[[http://www.jedit.org jEdit]]
*[[http://www.djini.de/software/mwjed/ The mediawiki (wikipedia) plugin for
jEdit]].

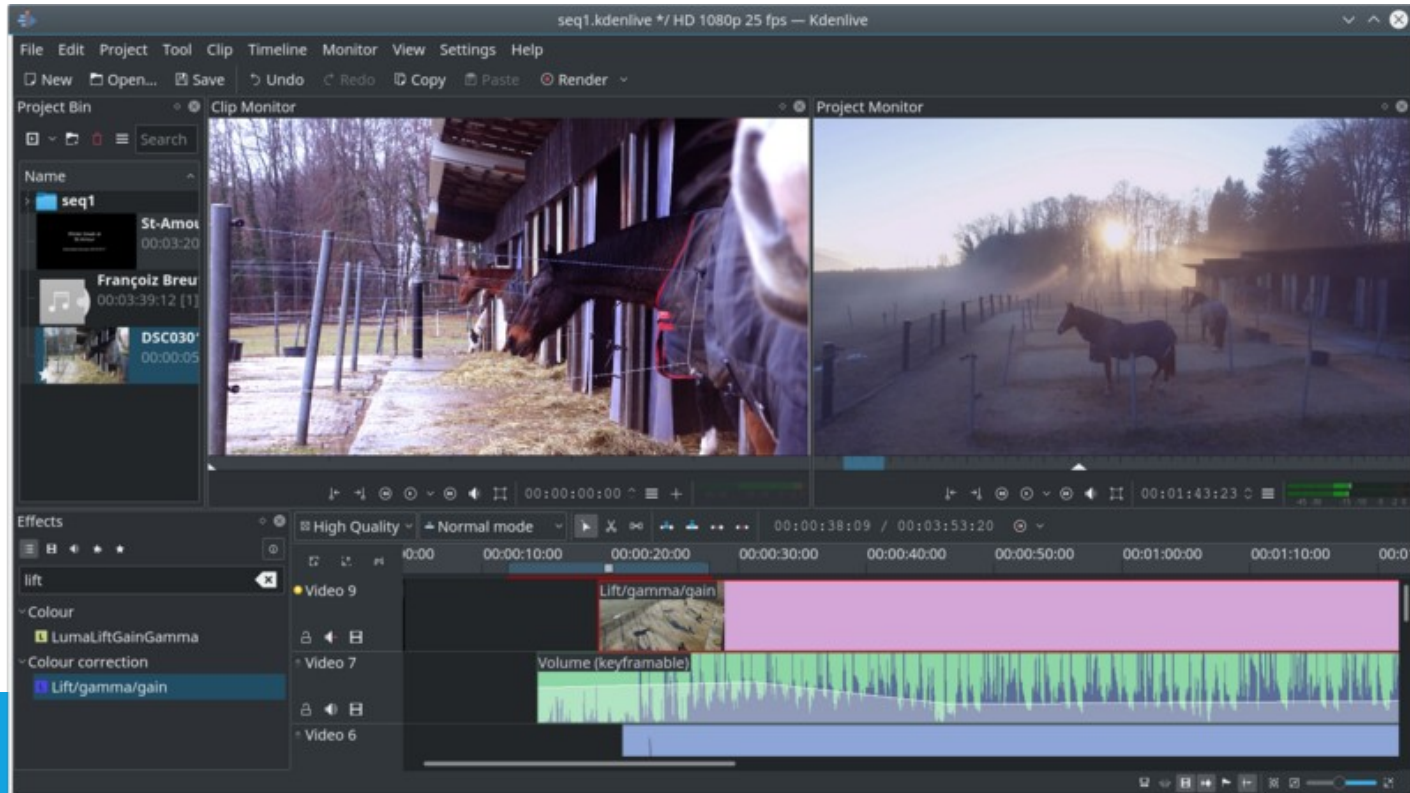
[[Category:Free text editors]]
[[Category:Java platform software]]

[[de:jEdit]]
[[es:jEdit]]
[[fr:jEdit]]
[[ko:JEdit]]
[[nl:jEdit]]
[[pl:JEdit]]
[[pt:jEdit]]
[[zh:jEdit]]
.
```

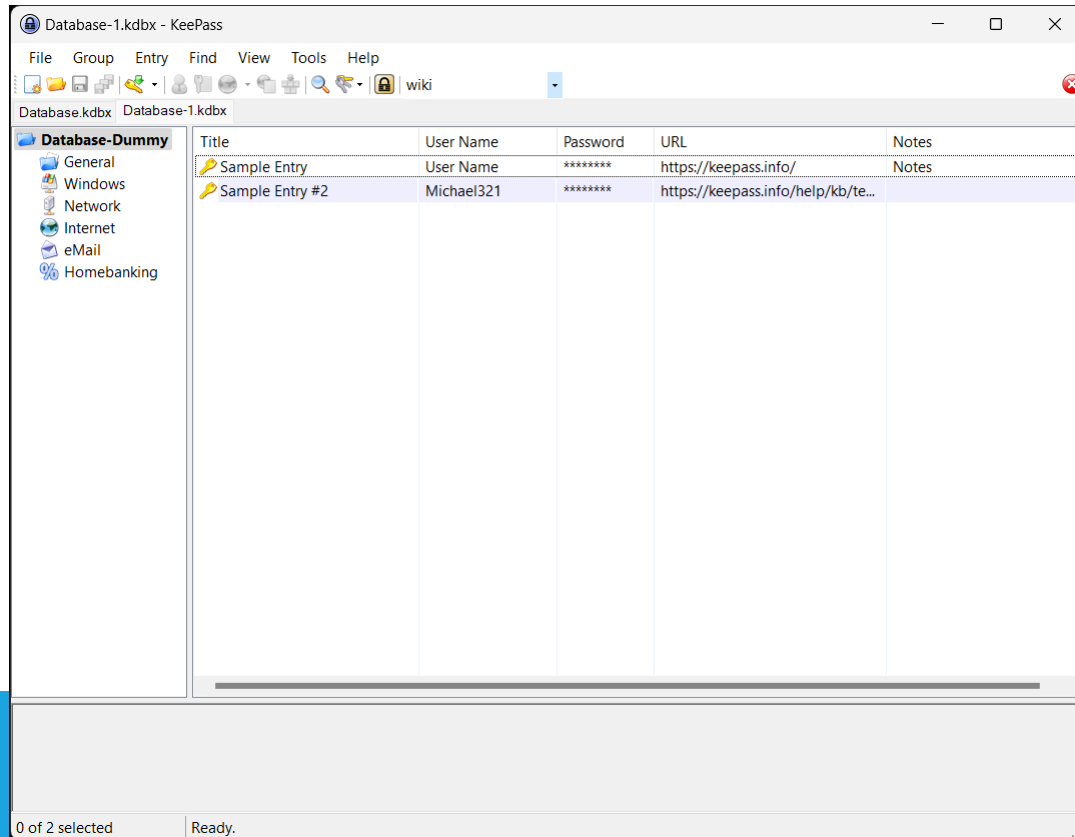
4,119 All (mediawiki:none,UTF-8)S --- U 14/20Mb

Kdenlive

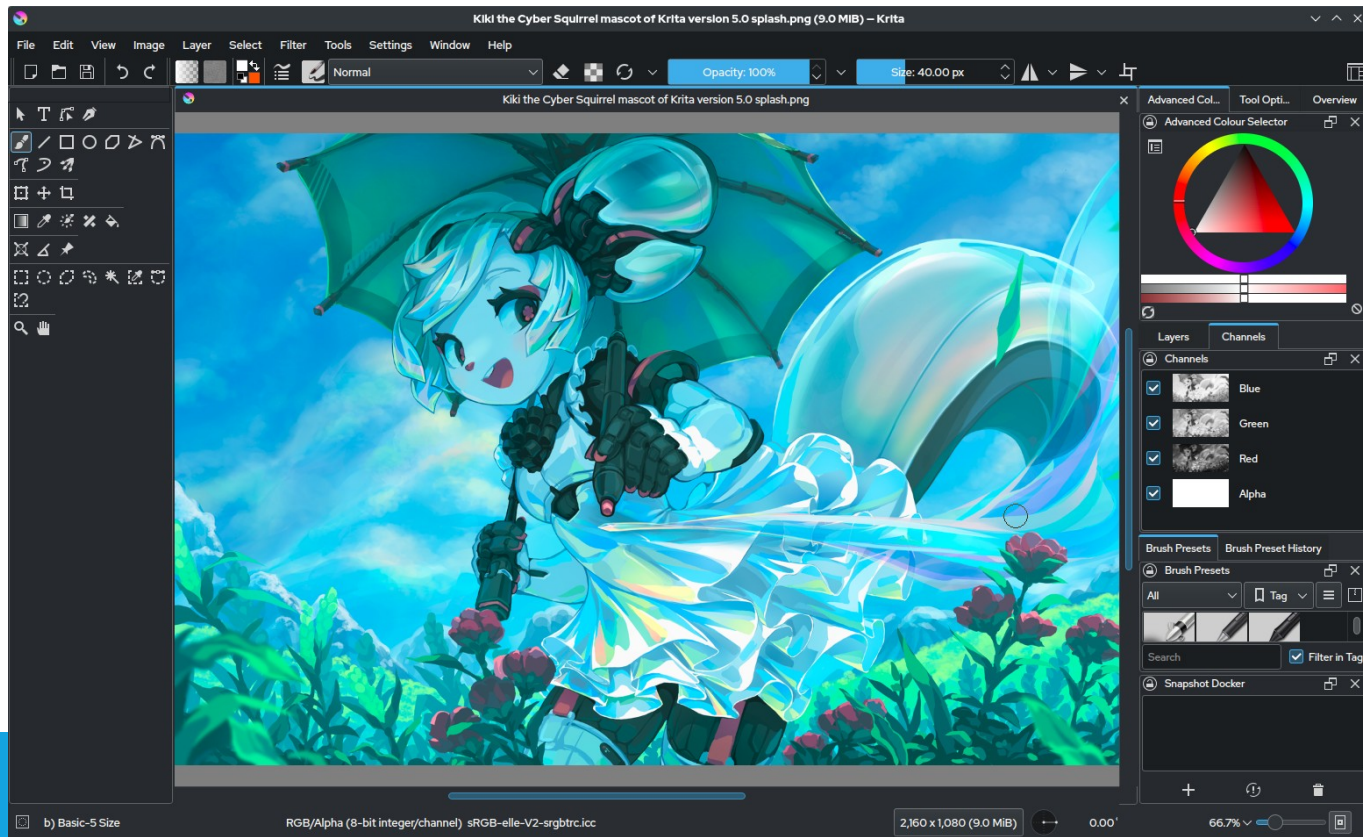
(KDE non-linear editor)



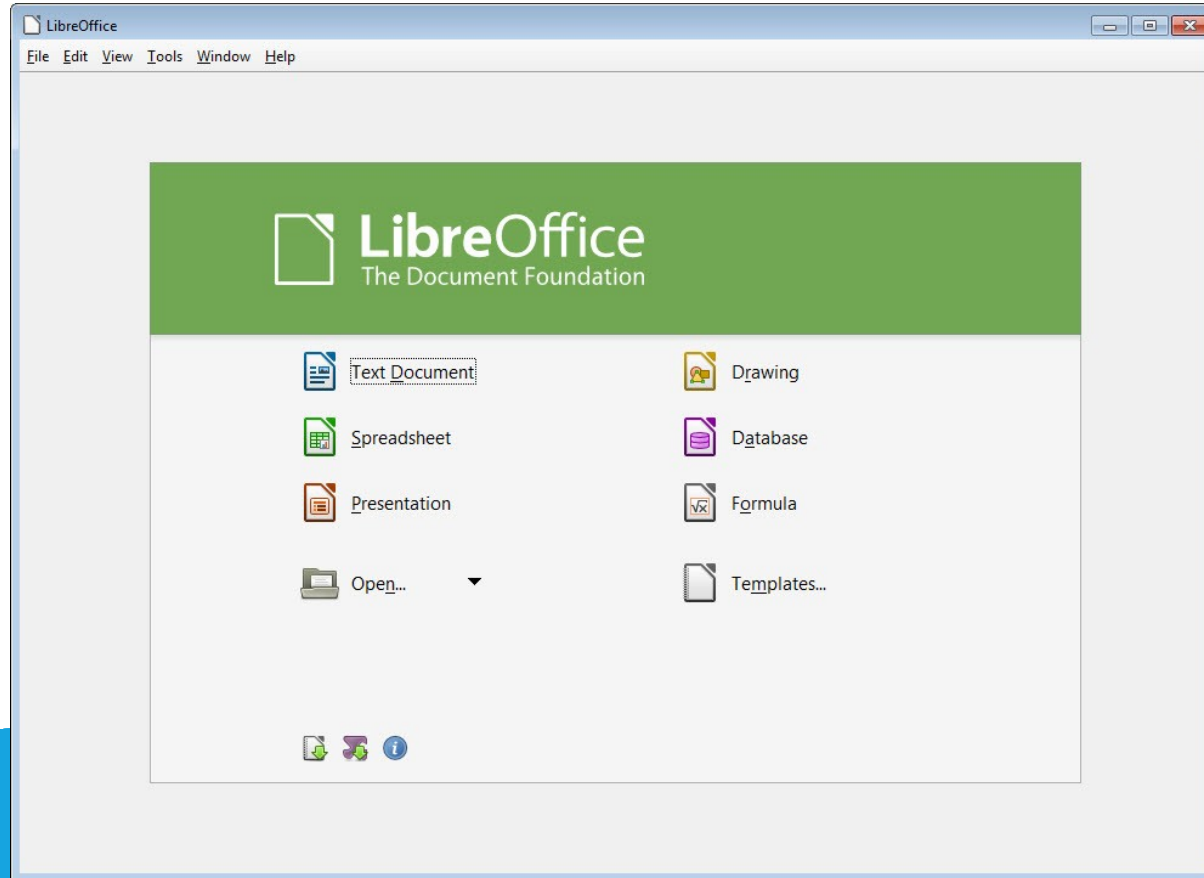
KeePass



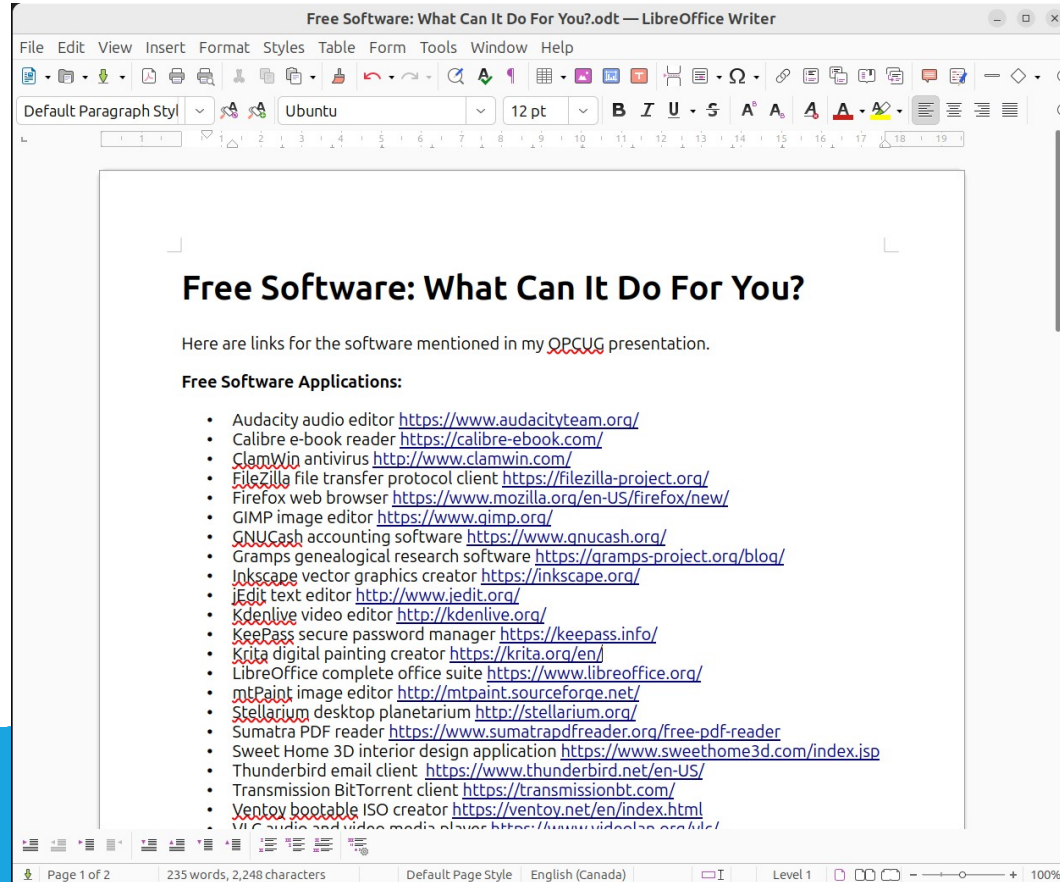
Krita



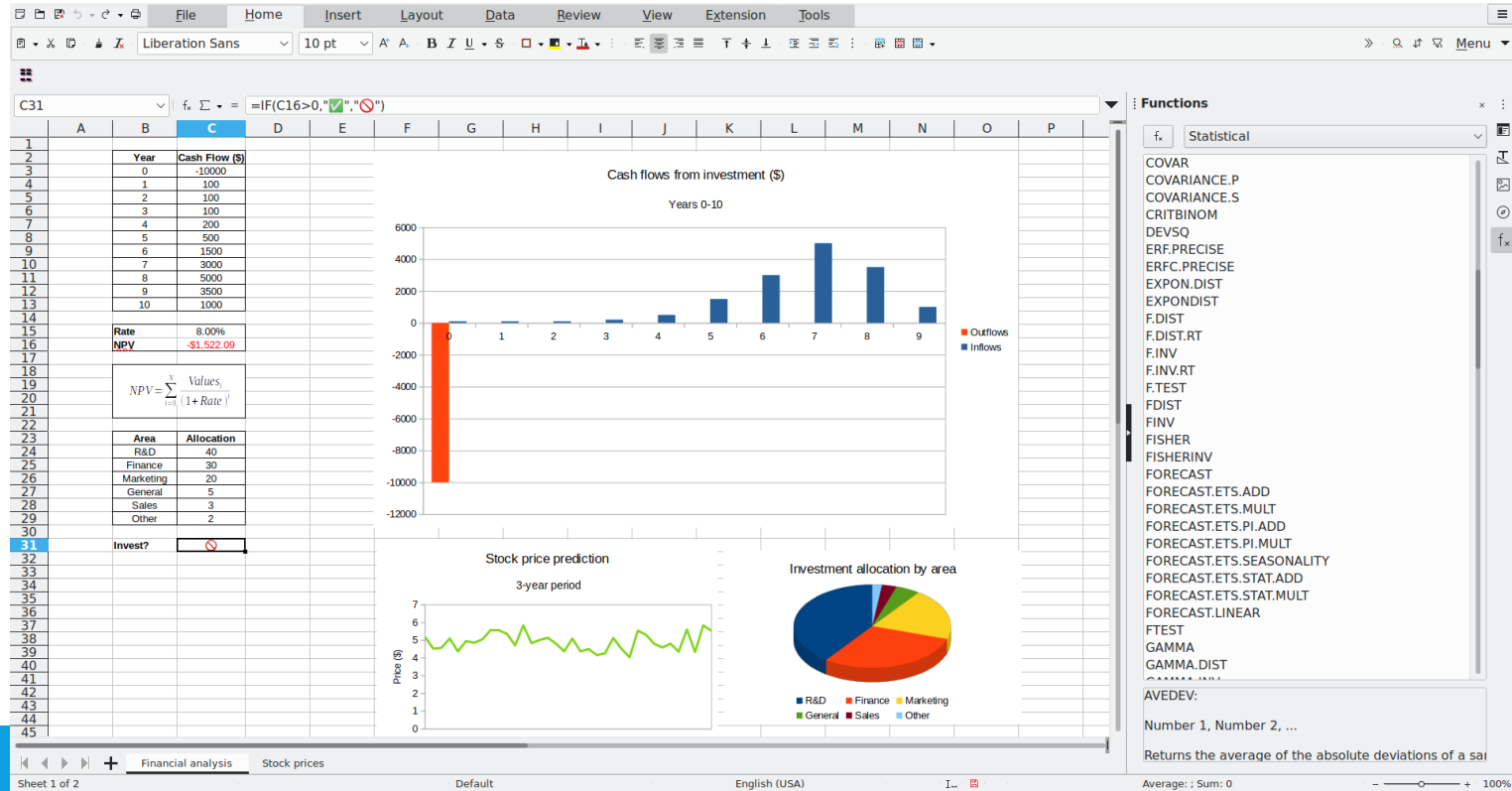
LibreOffice



LibreOffice Writer

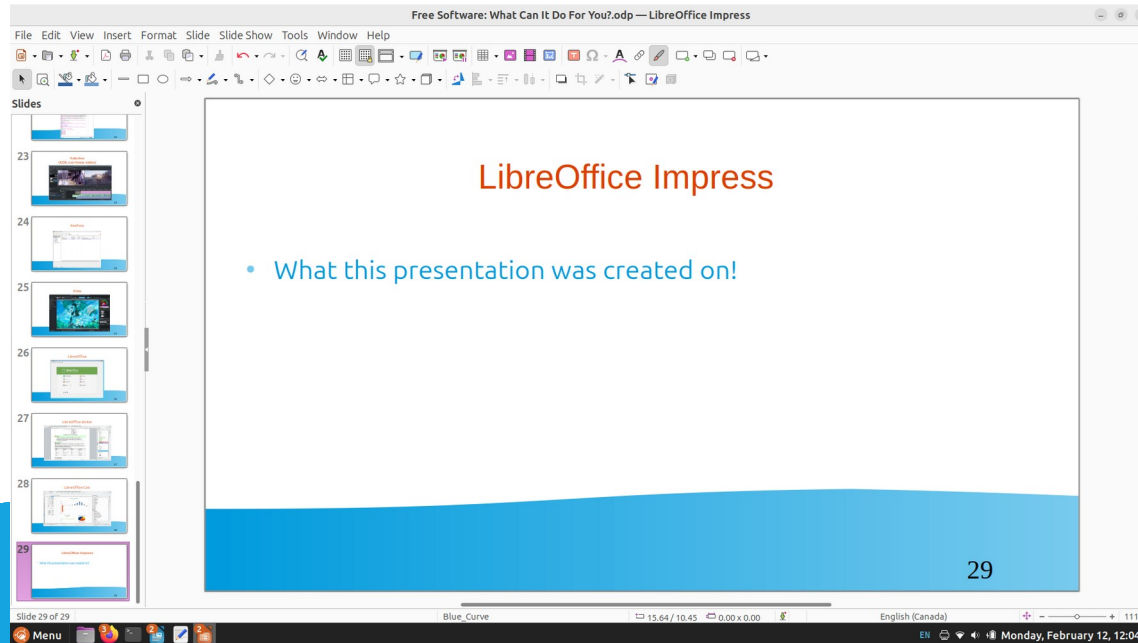


LibreOffice Calc

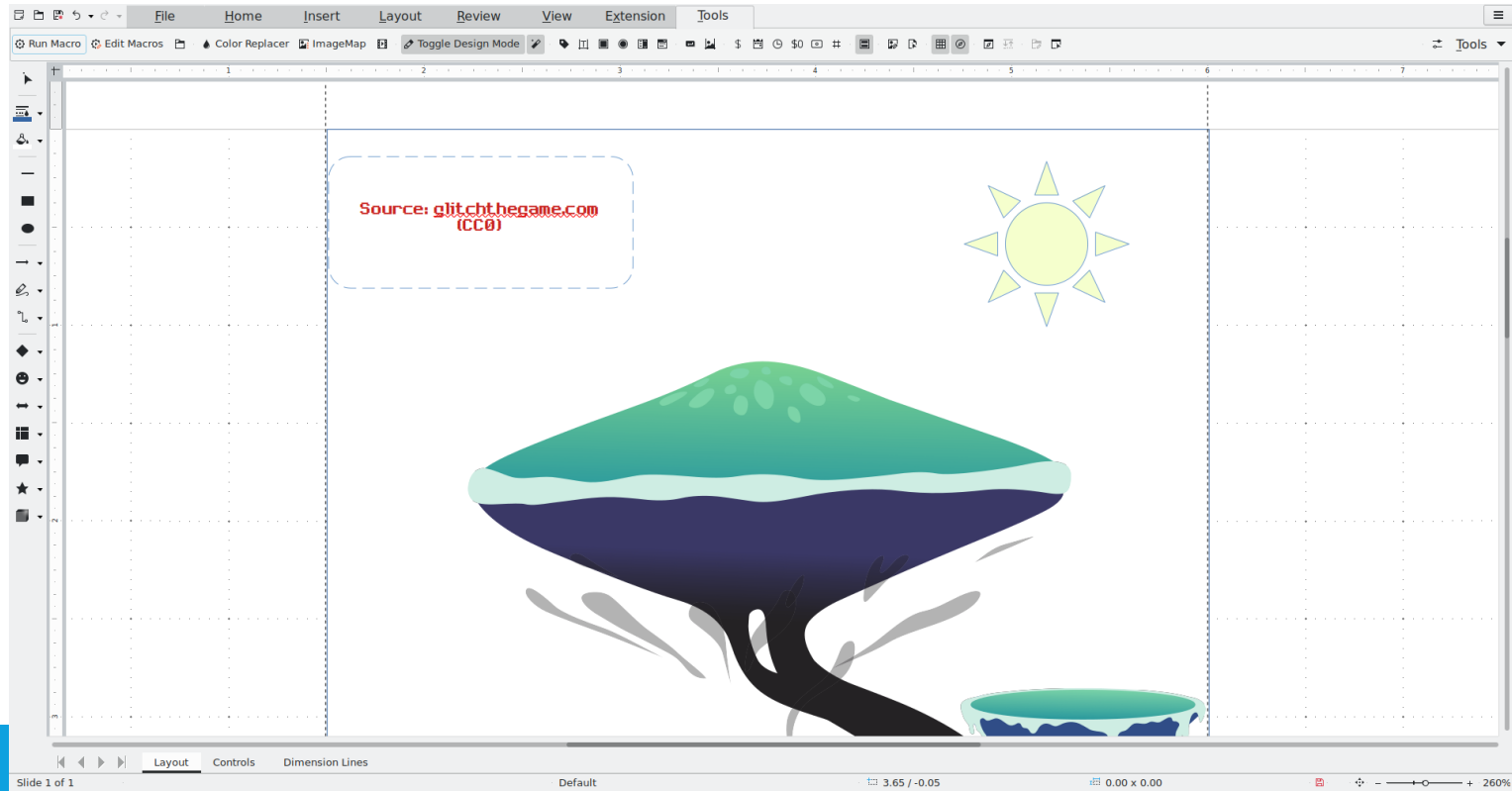


LibreOffice Impress

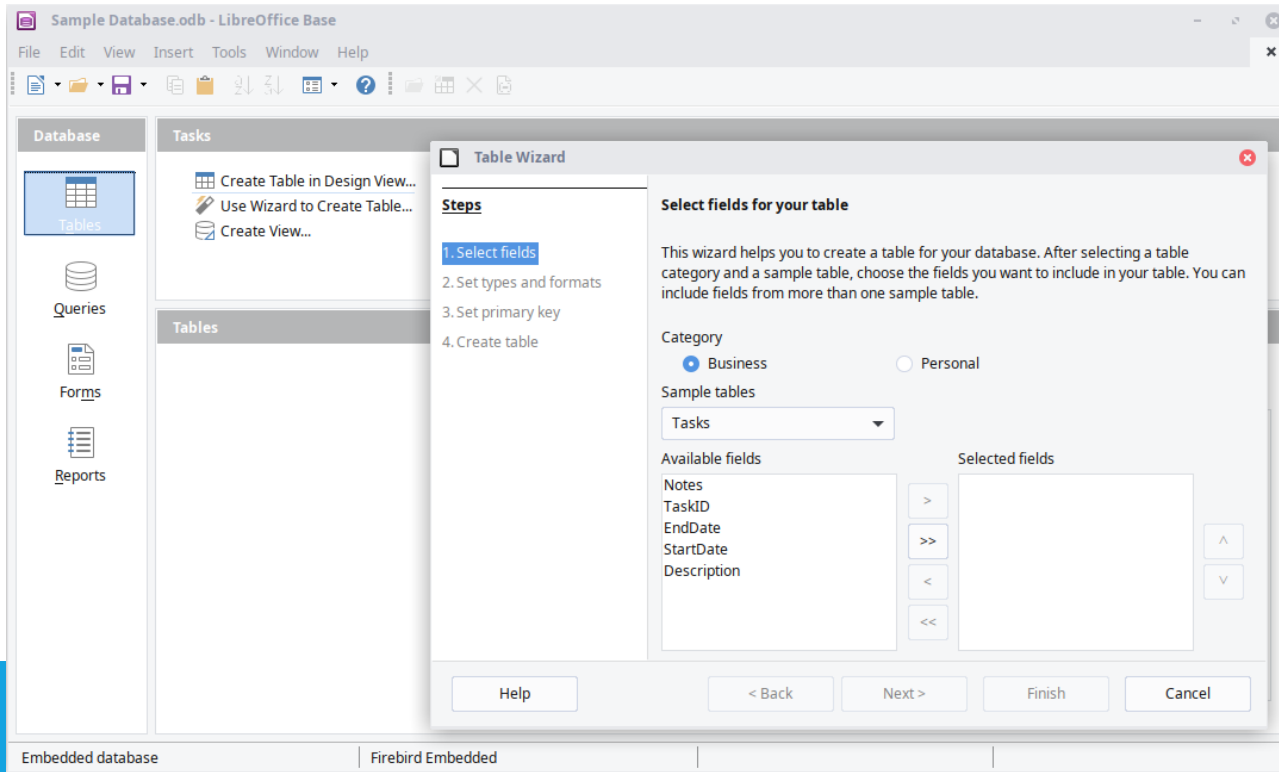
- What this presentation was created on!



LibreOffice Draw



LibreOffice Base



LibreOffice Math

The screenshot shows the LibreOffice Math application window titled "Sample formula.odf - LibreOffice Math". The interface includes a menu bar (File, Edit, View, Format, Tools, Window, Help) and a toolbar with various icons for file operations, editing, and viewing. On the left side, there is a sidebar with a tab labeled "Examples" containing a list of mathematical formulas:

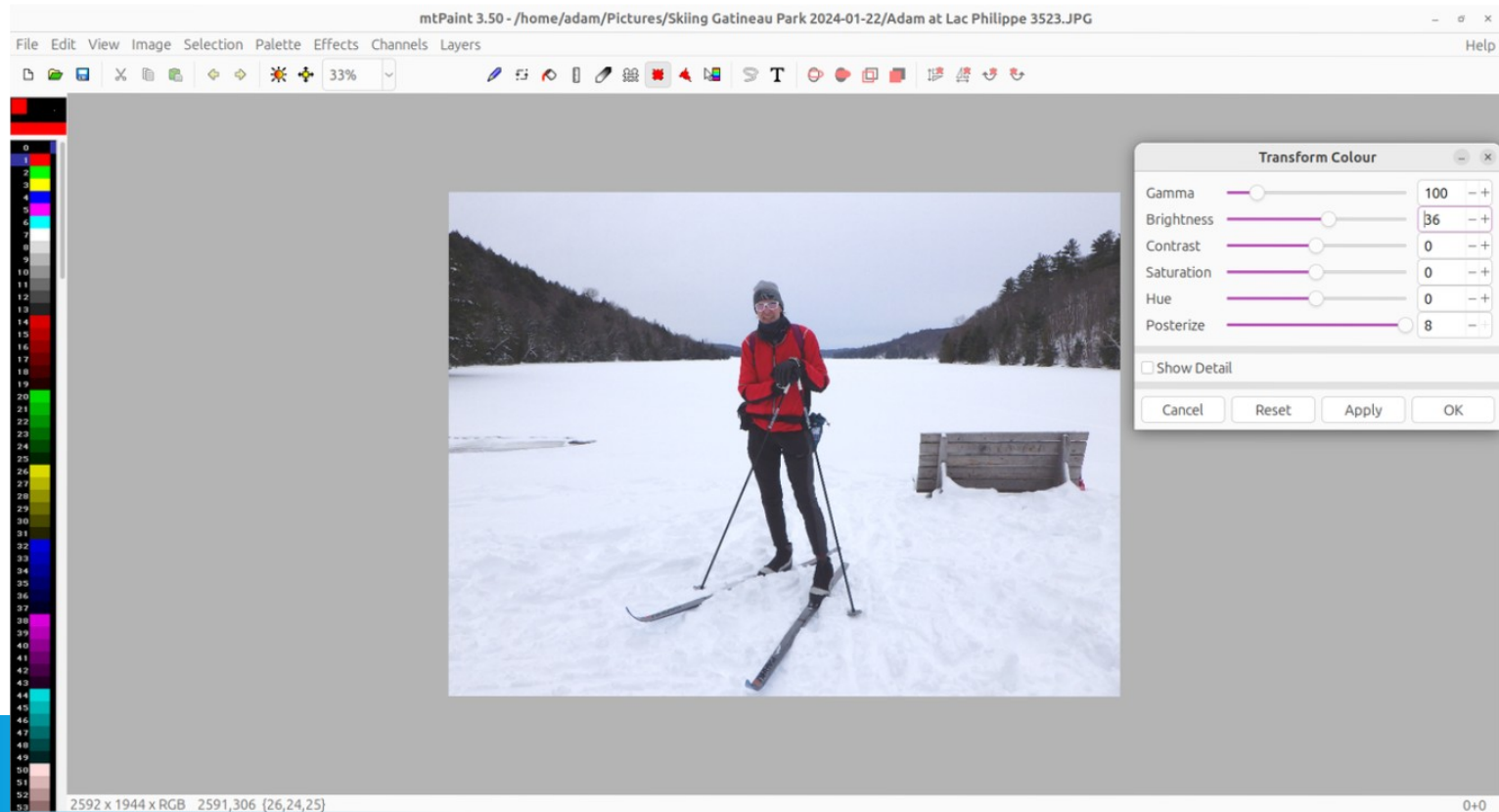
- $C = \pi \cdot d = 2 \cdot \pi \cdot r$
- $E = mc^2$
- $a^2 + b^2 = c^2$
- $f(x) = \sum_{i=0}^{\infty} \frac{f^{(i)}(0)}{i!} x^i$
- $-\frac{(x-\mu)^2}{\sigma^2}$

The main editing area on the right displays the selected formula, $f(x) = \sum_{i=0}^{\infty} \frac{f^{(i)}(0)}{i!} x^i$, in a large, clear font. Below the formula, the underlying LaTeX code is visible in a smaller font:

```
f ( x ) = sum from { { i = 0 } } to { infinity } { { f^{(i)}(0) } over { i! } x^i }
```

At the bottom right of the window, there is a zoom control showing the current zoom level is 440%.

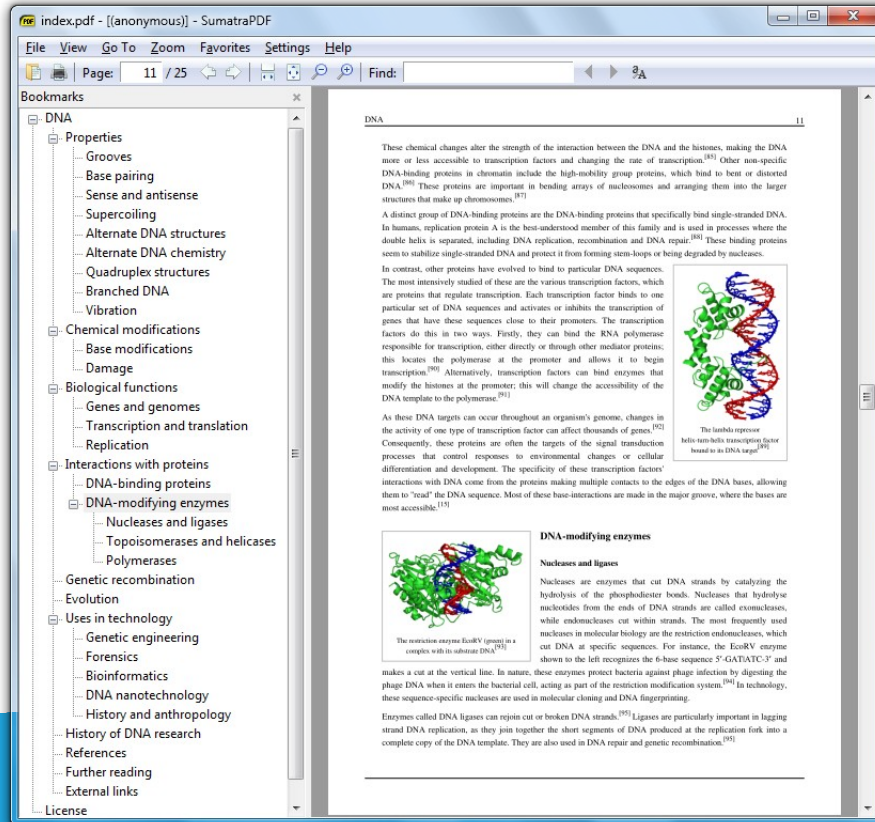
mtPaint



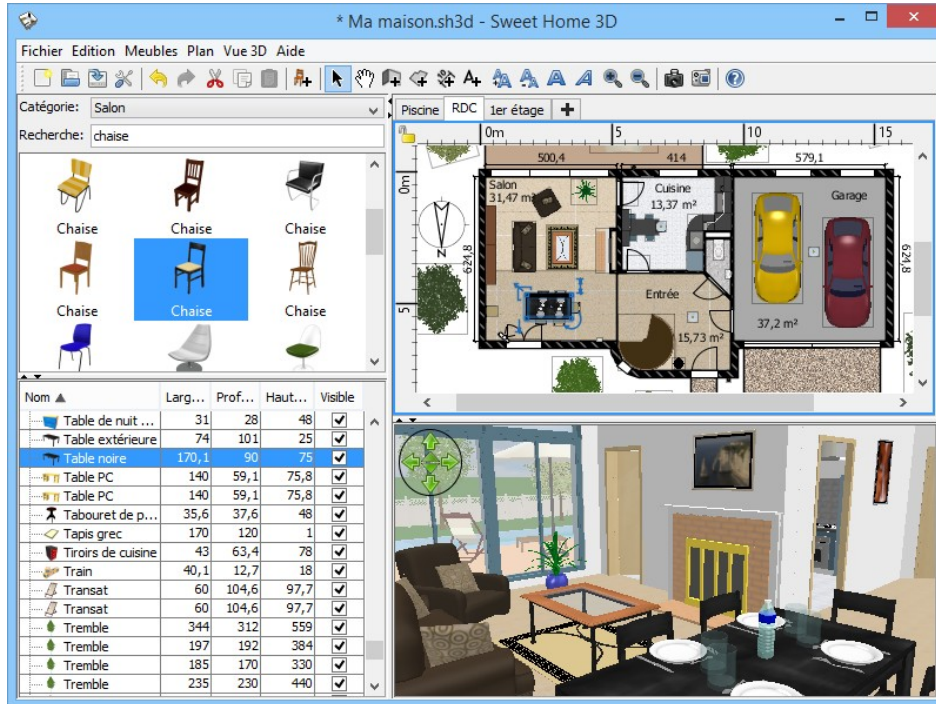
Stellarium



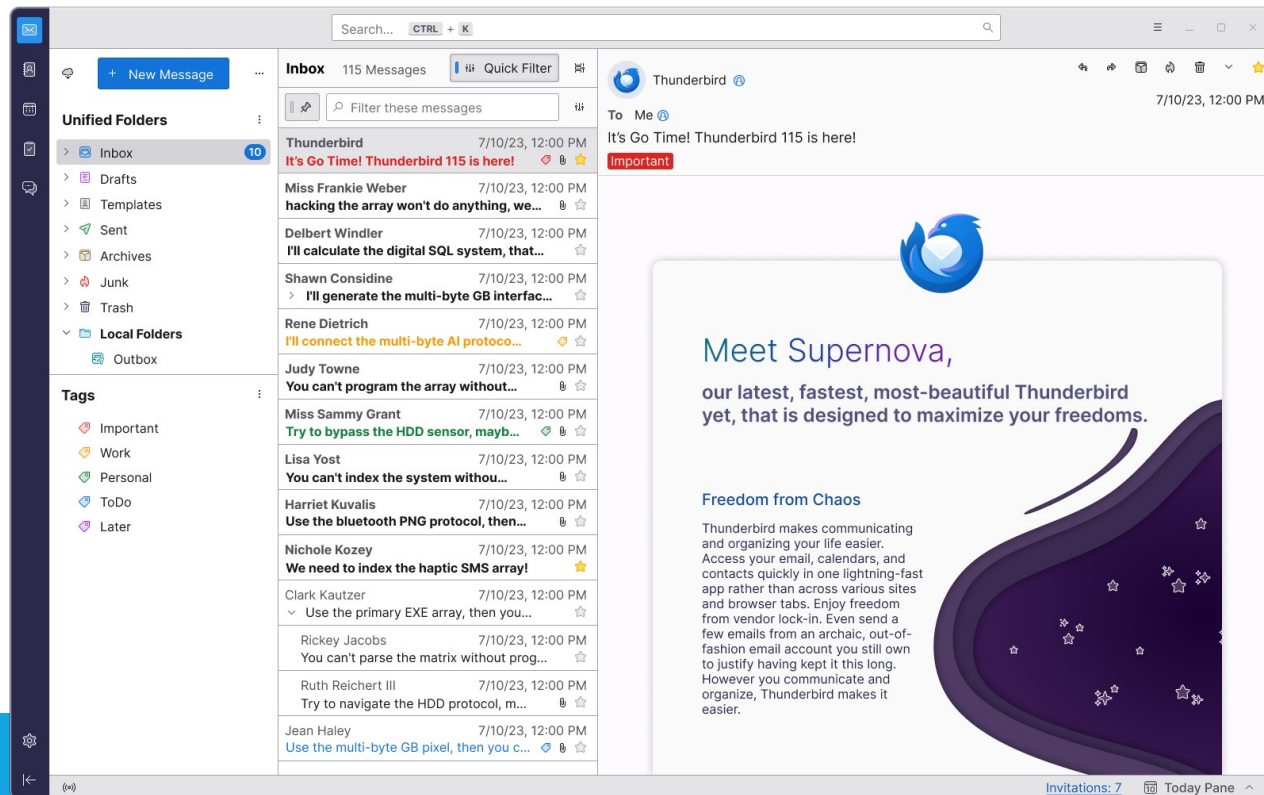
Sumatra PDF



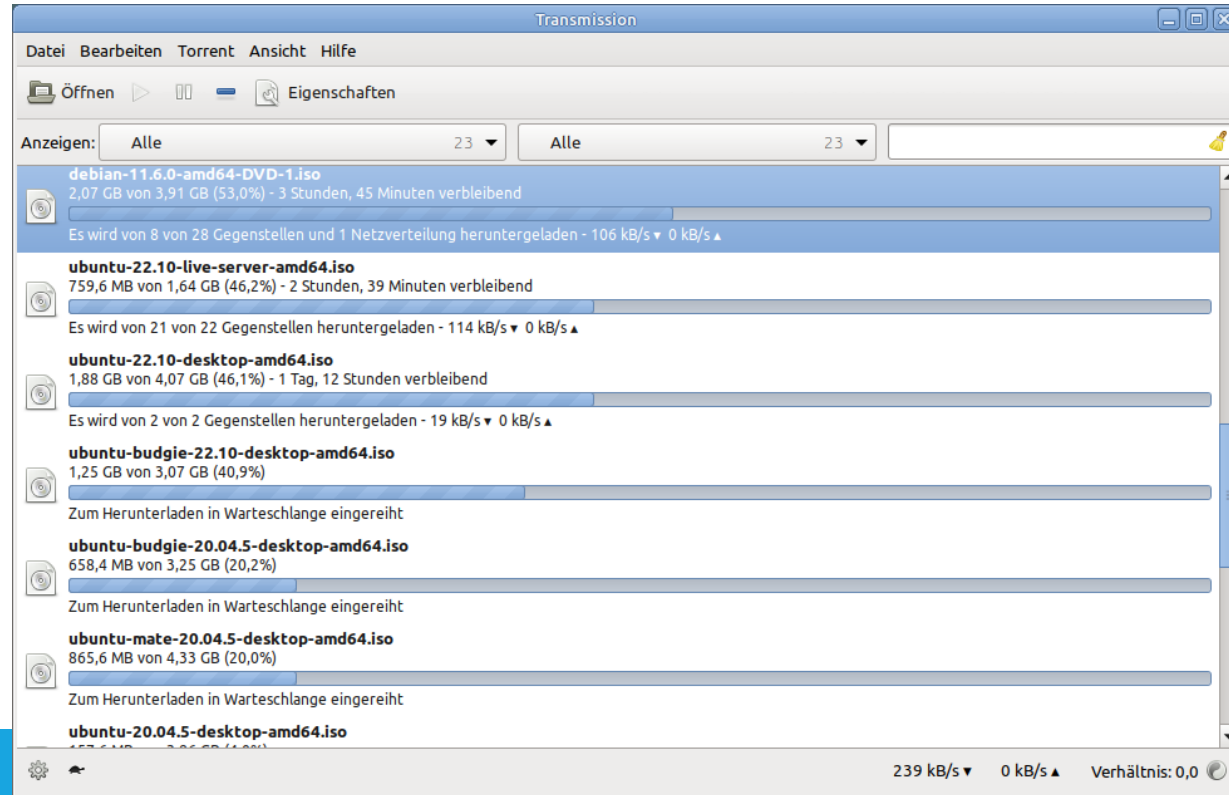
Sweet Home 3D



Thunderbird



Transmission

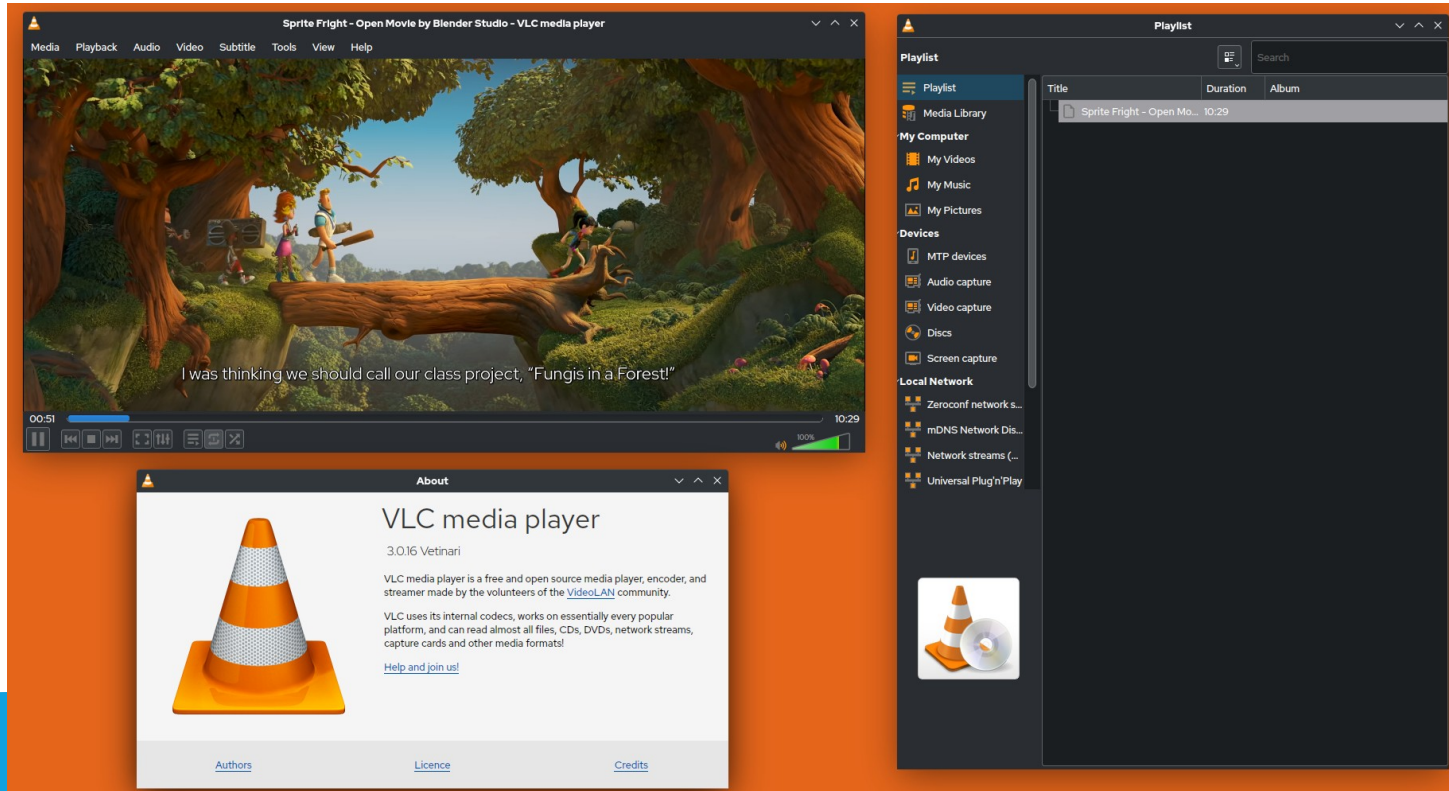


Ventoy



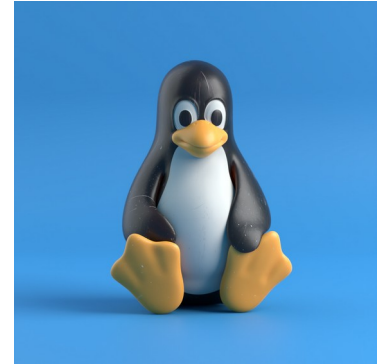
VLC

(Video LAN Client)



Free Software Operating Systems

- Linux
- BSD
- Solaris and other Unix systems
- Others:
 - Fuchsia, with the Zircon kernel



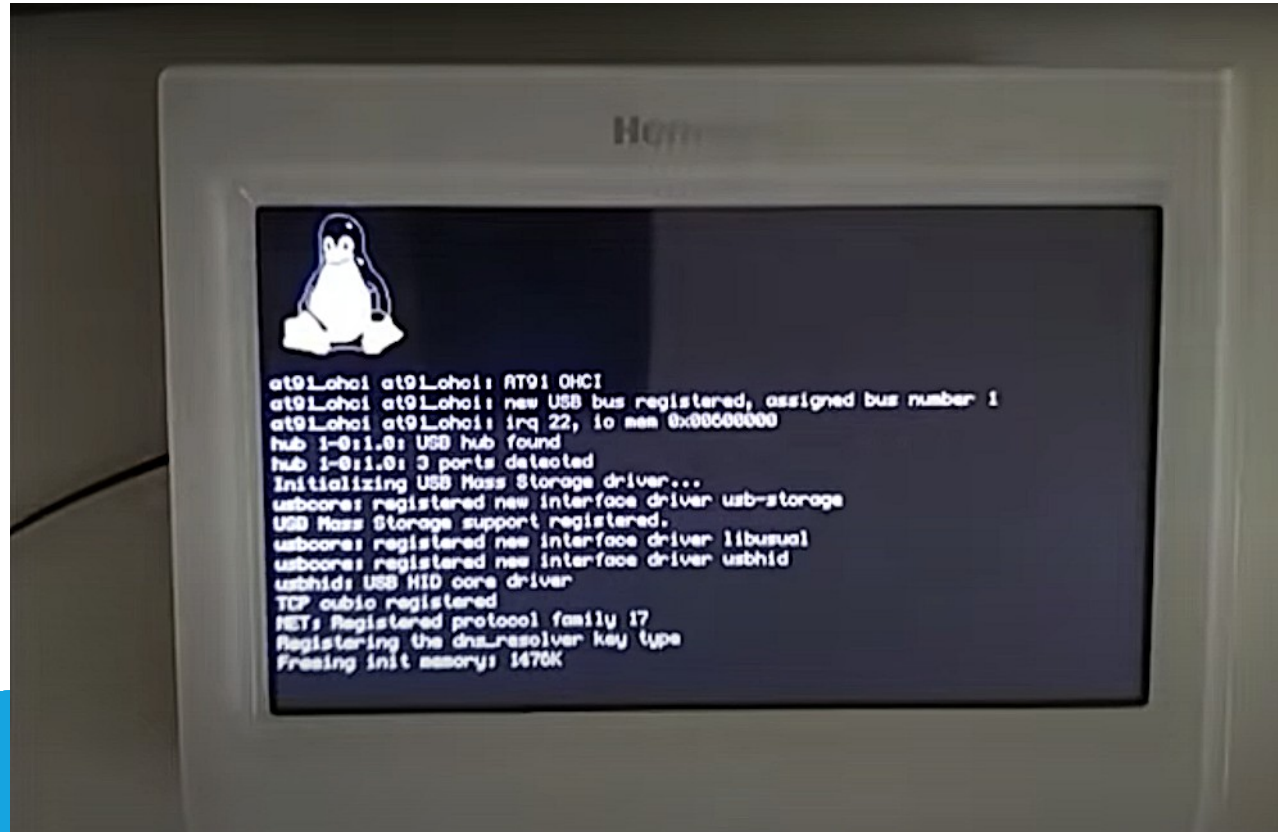
Android



Google ChromeOS



Thermostats and other smart IOT devices



Samsung Linux Touchscreen Fridge

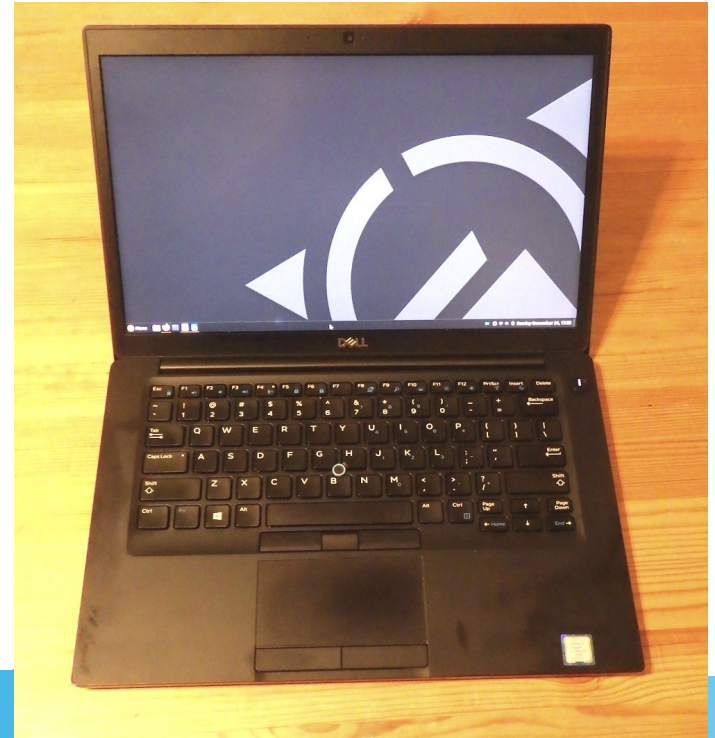


And even ...



Linux on the desktop

- Dell Latitude 7490
- Ubuntu Cinnamon



What people think Linux users look like



What Linux users really look like

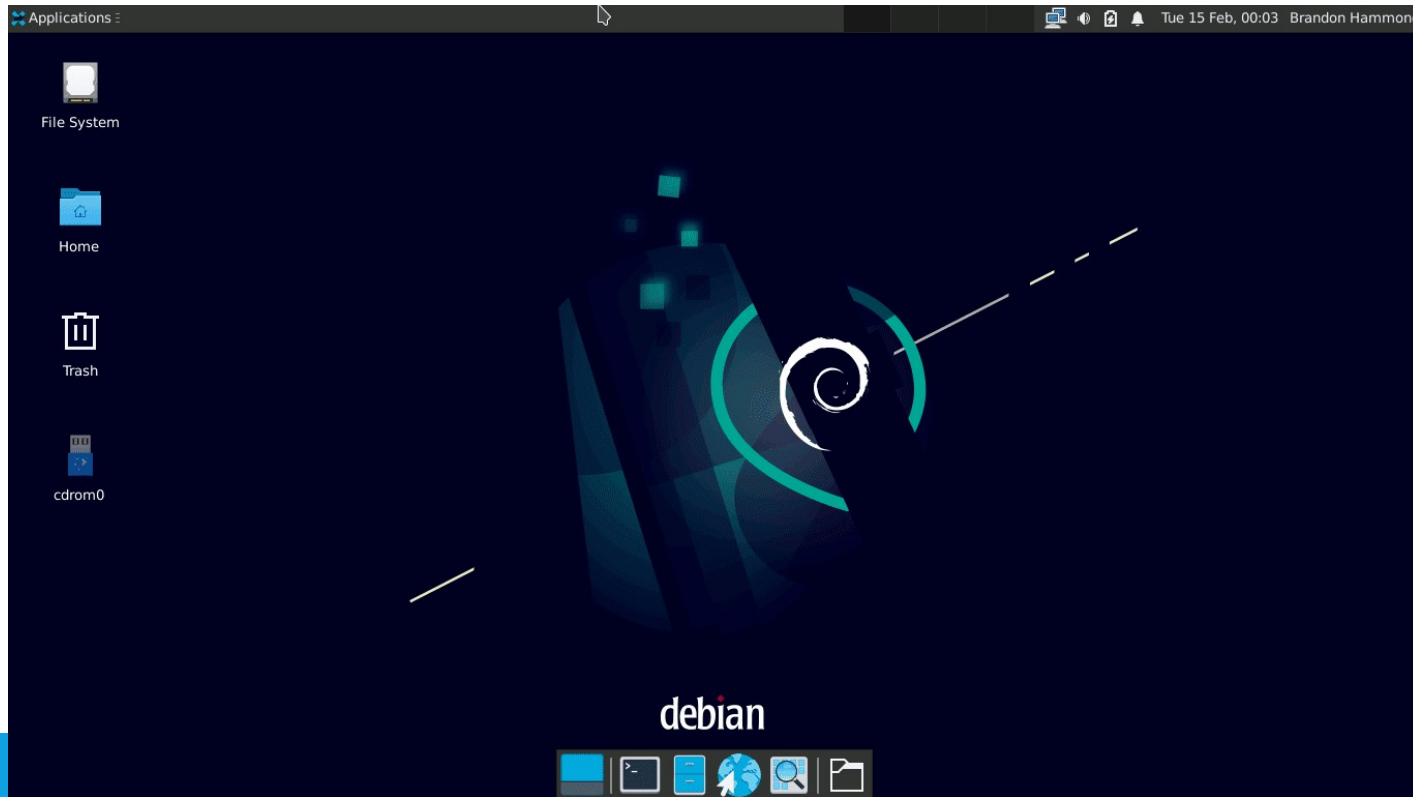


Photo: Lady Pain
(Marta Manso)

What people think Linux looks like

```
jllacroix@Eris: ~  
brlapi.key      gnome-settings-daemon  logrotate.d      protocols      ucf.conf  
brltty          gnome-vfs-2.0         lsb-base         pulse          udev  
brltty.conf     groff                lsb-base-logging.sh python          udisks2  
ca-certificates group                lsb-release      python2.7      ufw  
ca-certificates.conf grub.d              ltrace.conf      python3        updatedb.conf  
calendar       gshadow             magic            python3.2      update-manager  
chatscripts     gshadow-           magic.mime       rc0.d          update-motd.d  
checkbox.d       gtk-2.0            mailcap          rc1.d          update-notifier  
colord.conf    gtk-3.0           mailcap.order   rc2.d          UPower  
compizconfig   hdparm.conf        manpath.config  rc3.d          usb_modeswitch.conf  
ConsoleKit     hostname           mime.types      rc4.d          usb_modeswitch.d  
console-setup  host.conf          mke2fs.conf     rc5.d          vbox  
cracklib       hosts             modprobe.d      rc6.d          vdpau_wrapper.cfg  
cron.d         hosts.allow        modules         rc.local  
cron.daily     hosts.deny         notd            rcS.d  
cron.hourly    hp                mplayer        remote-login-service.conf  
cron.monthly   icedtea-web       mtab           resolvconf  
crontab        ifplugd           mtab.fuselock  resolv.conf  
cron.weekly    init              mtools.conf    rmt  
crosscover.conf init.d            mysql          rpc  
cups          initramfs-tools  nanorc         rsyslog.conf  
cupshelpers   inputrc          netcsid.conf   rsyslog.d  
dbus-1        inserv           network        samba  
debconf.conf  inserv.conf      NetworkManager sane.d  
debian_version inserv.conf.d    networks      security  
default       iproute2         newt           security  
deluser.conf  nsswitch.conf    nsswitch.conf  sensors3.conf  
  
jllacroix@Eris:/etc$ ls /home  
jllacroix  lost+found  
jllacroix@Eris:/etc$ cd /home  
jllacroix@Eris:/home$ cd /  
jllacroix@Eris:/$ cd home  
jllacroix@Eris:/home$ cd jllacroix  
jllacroix@Eris:~$
```

What Linux really looks like



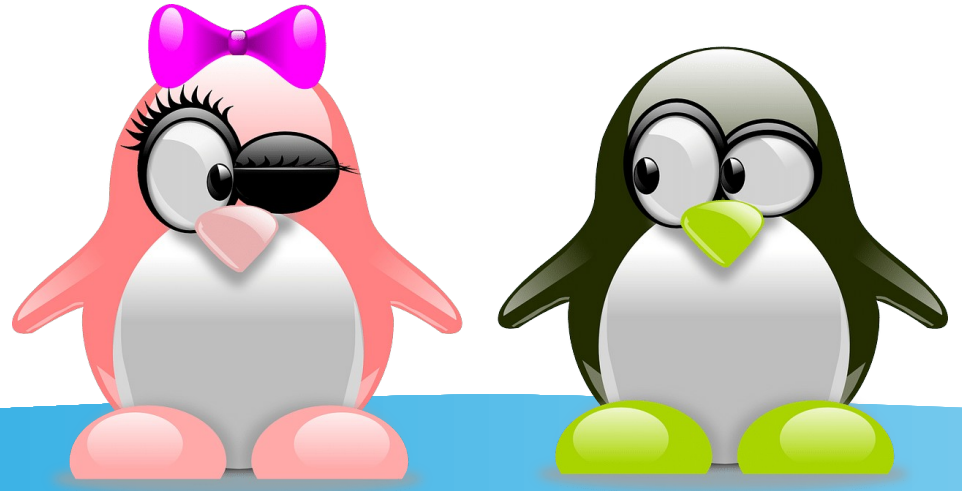
Why desktop Linux?

- No cost
- More secure
- Stable
- No crapware
- Drivers
- Easy updates
- Run on old hardware



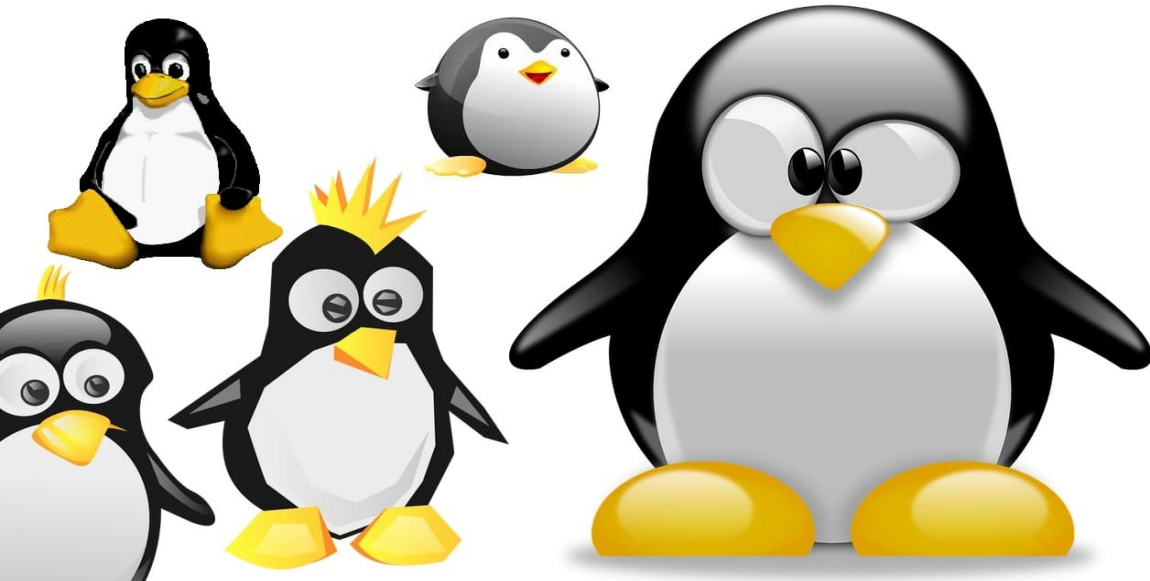
Why desktop Linux?

- No need to pirate software
- Software repositories
- Tons of choices and customization
- Does not slow down over time
- No backdoors
- Free support
- Months without a reboot



Why desktop Linux?

- Did I mention it is free?



Who uses desktop Linux?

- Nav Canada
- Federal Aviation Administration
- US Navy
- US Army
- The Indian Courts system
- The French parliament
- Many more



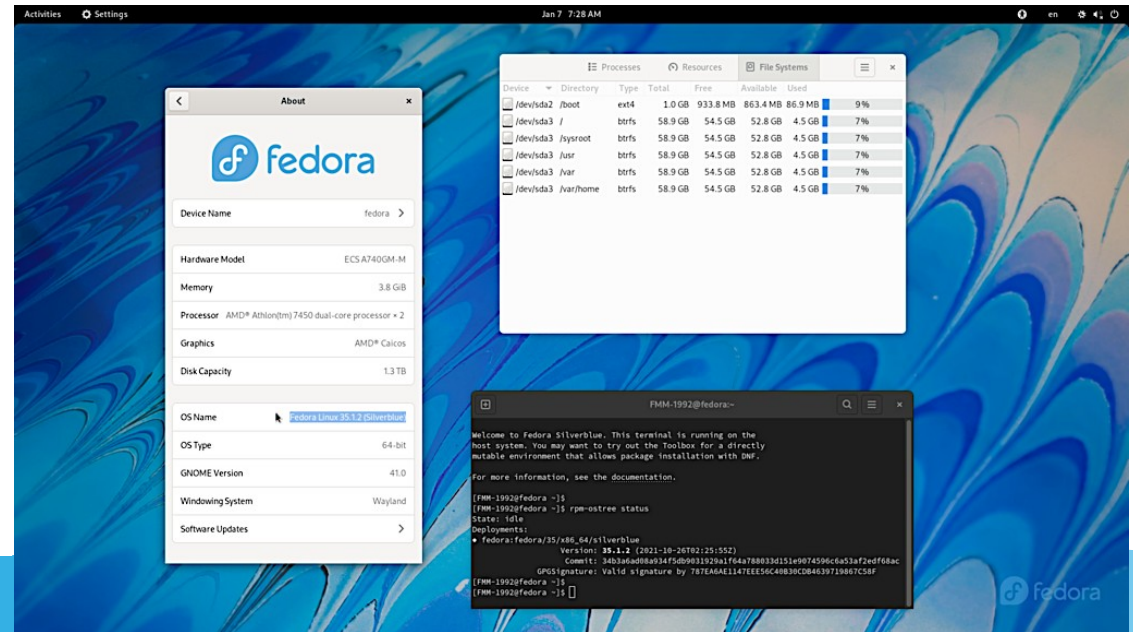
Just how many Linux distributions are there?

- DistroWatch ranks 275 main Linux distributions
- There are thousands more
- Wikipedia has articles on many
- Linux is all about choice
- Not every distribution is for everyone
- ...but there is a distribution for everyone

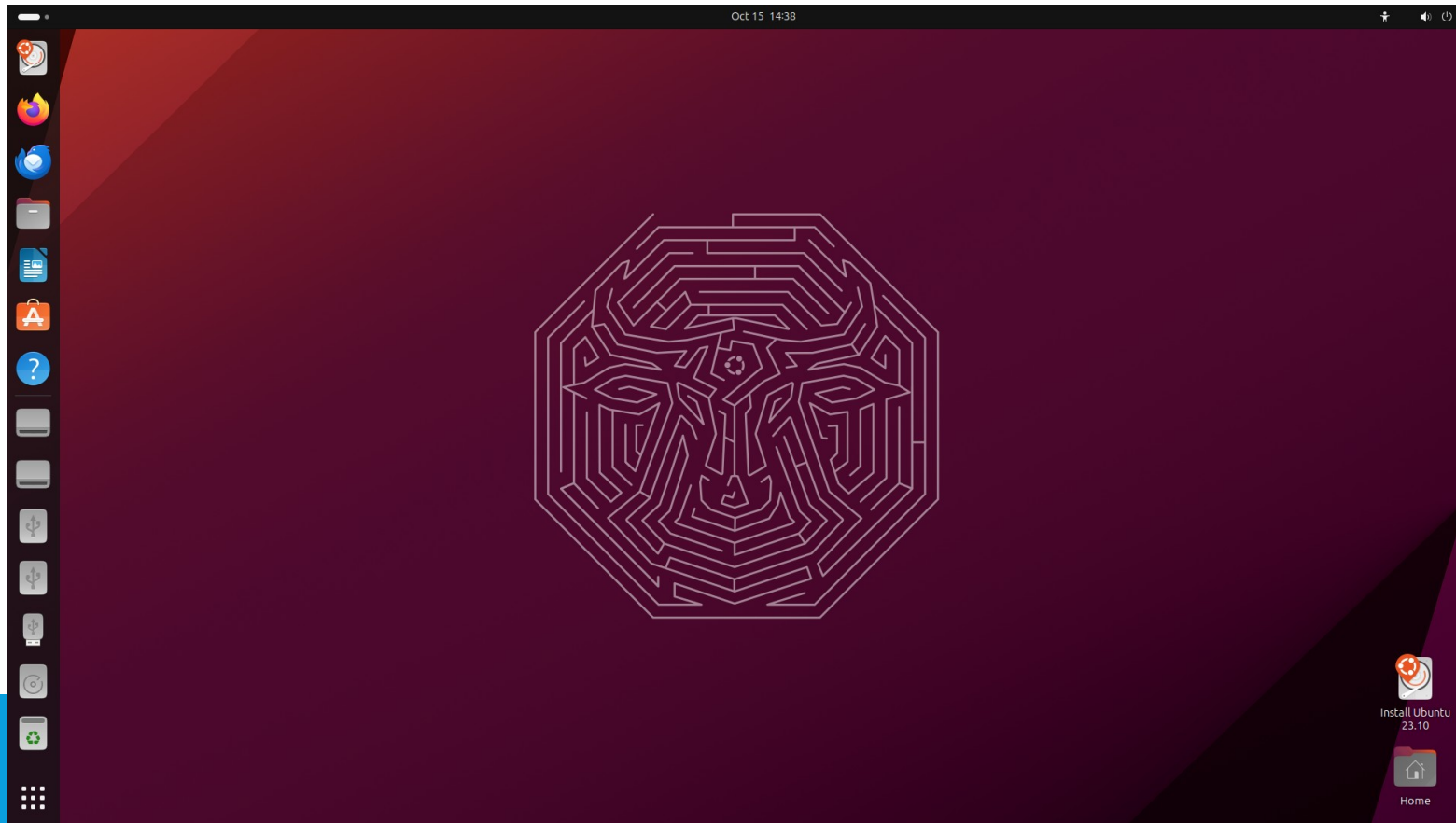


What is a desktop?

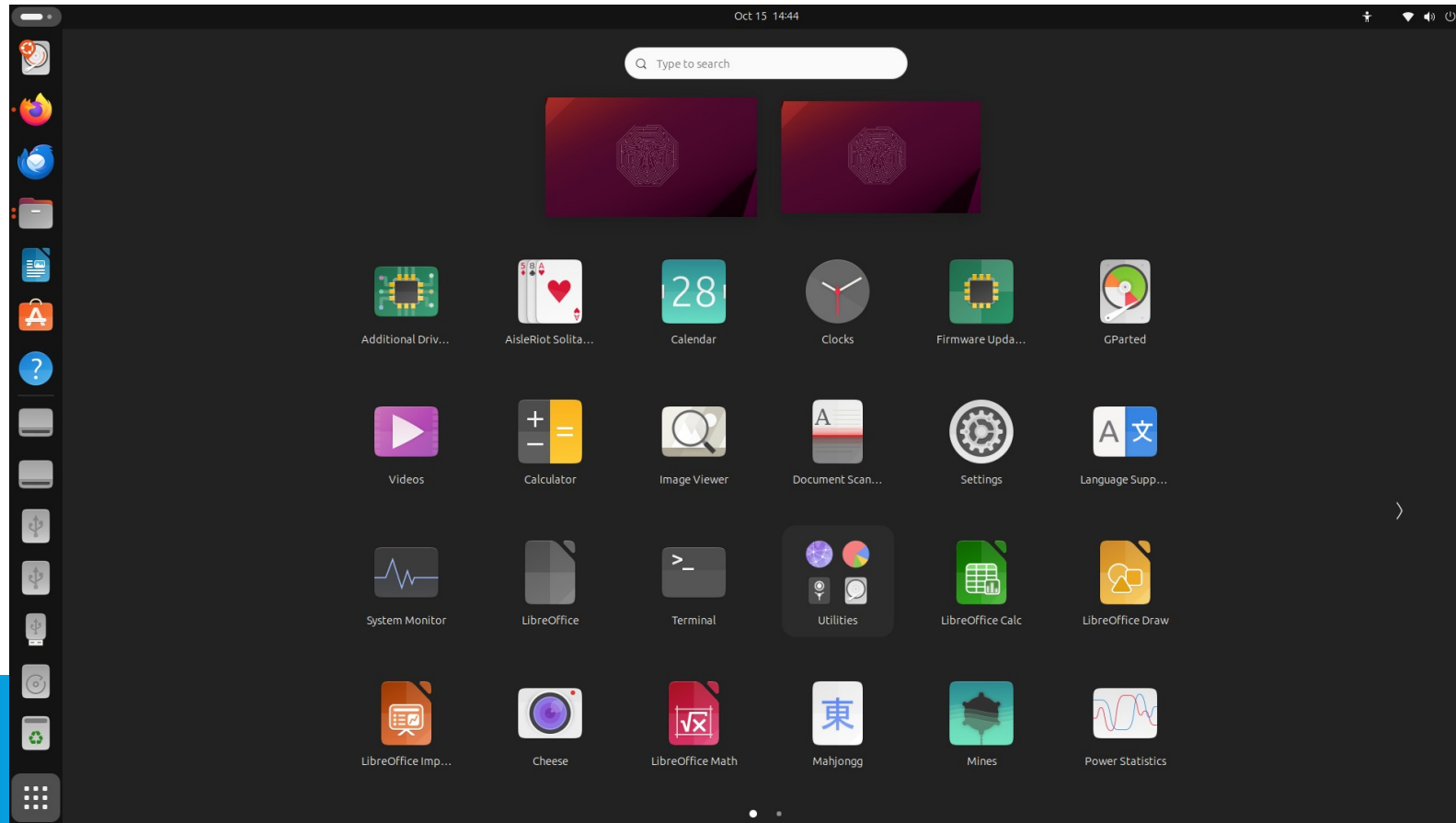
- A collection of front end software
- Basically everything you see:
 - Menu system
 - Applications
 - Core: file manager



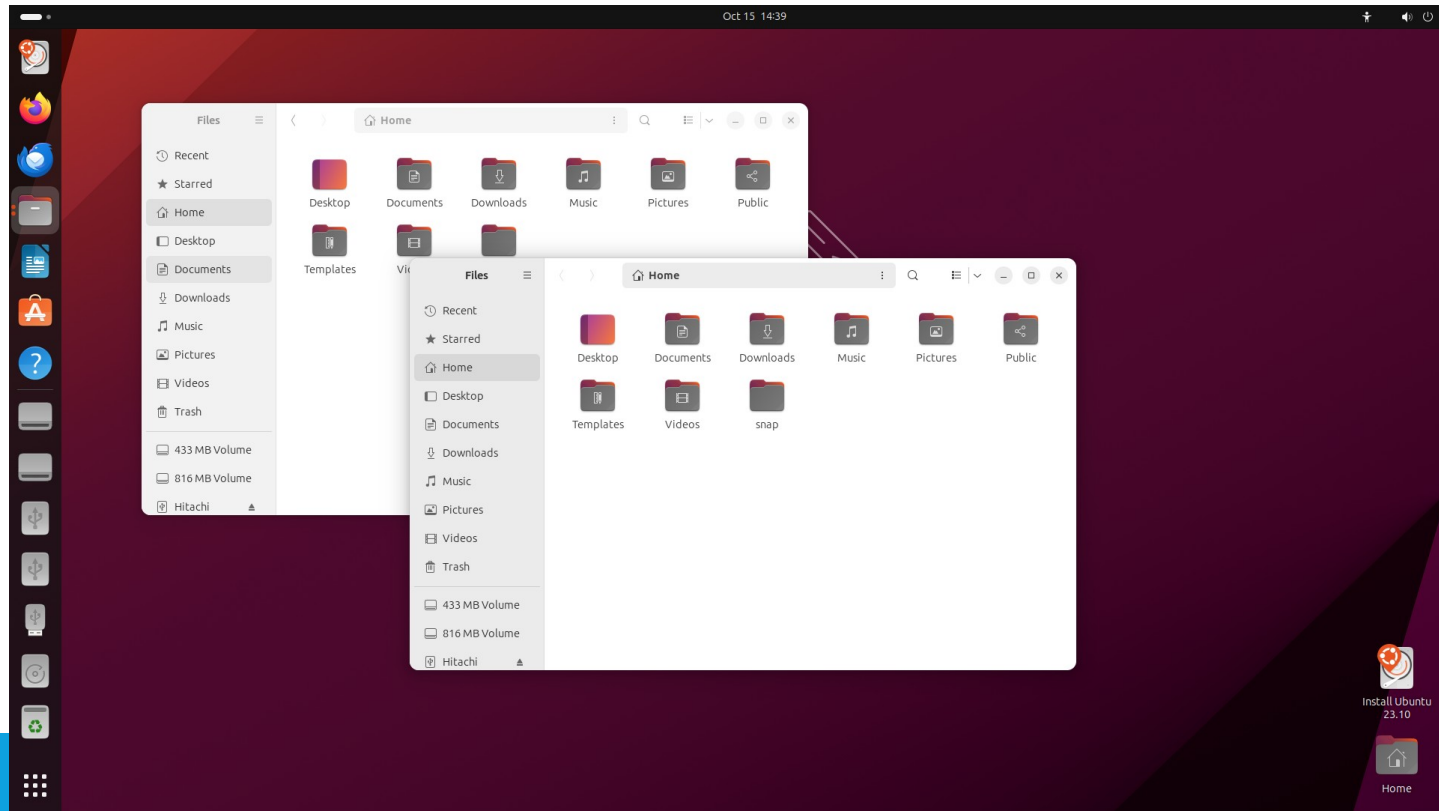
Ubuntu



Ubuntu



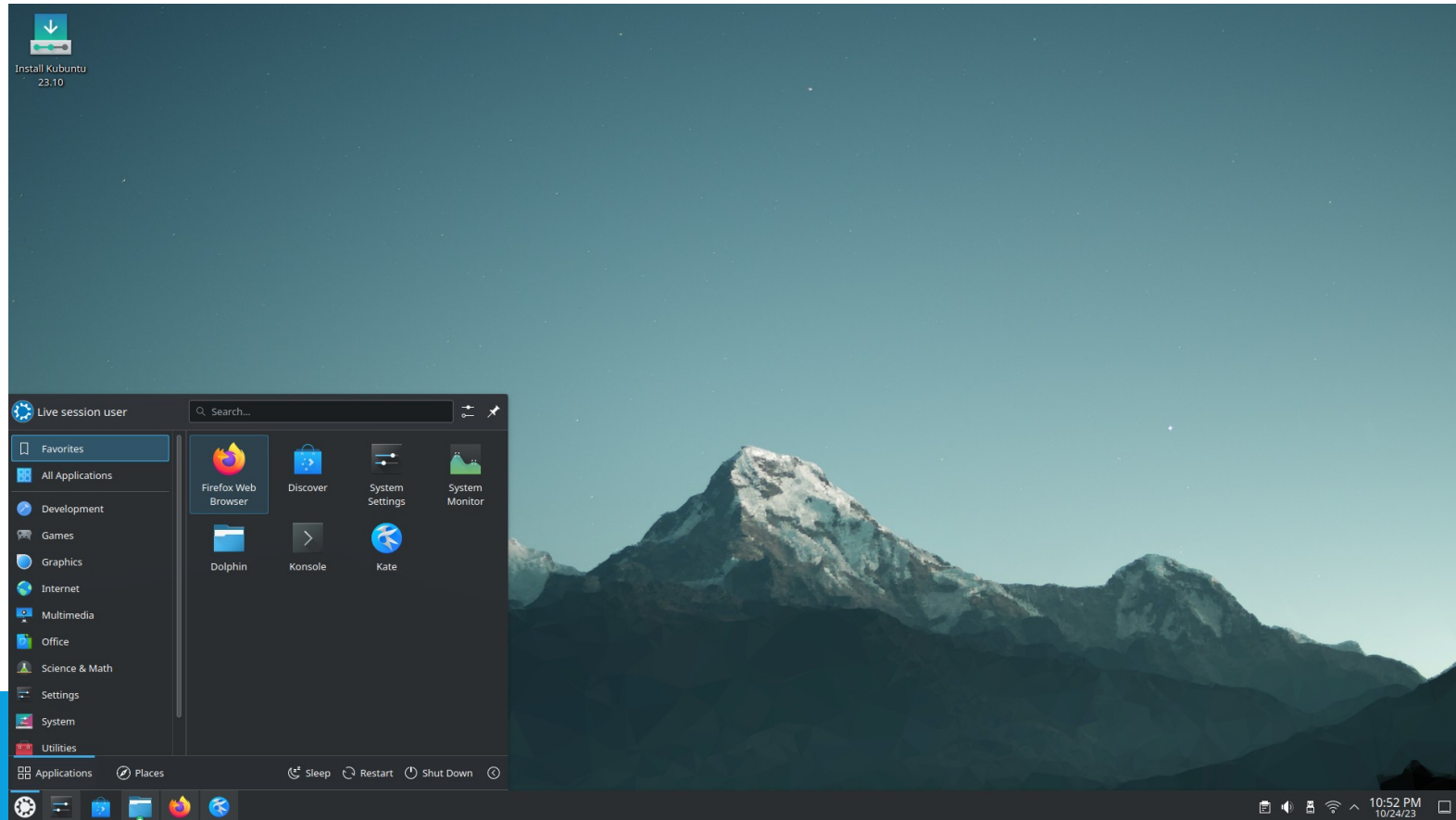
Ubuntu



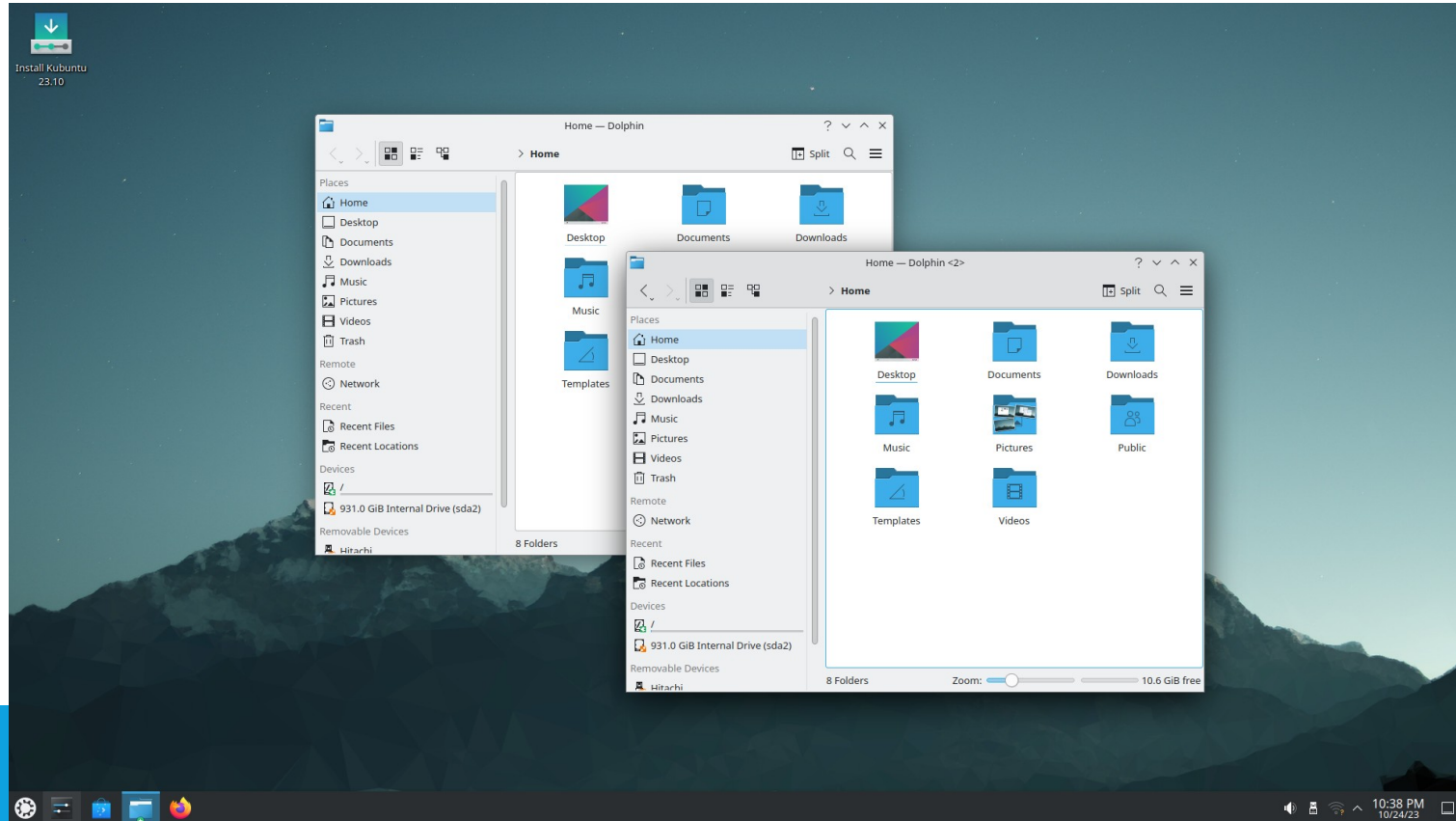
Kubuntu



Kubuntu



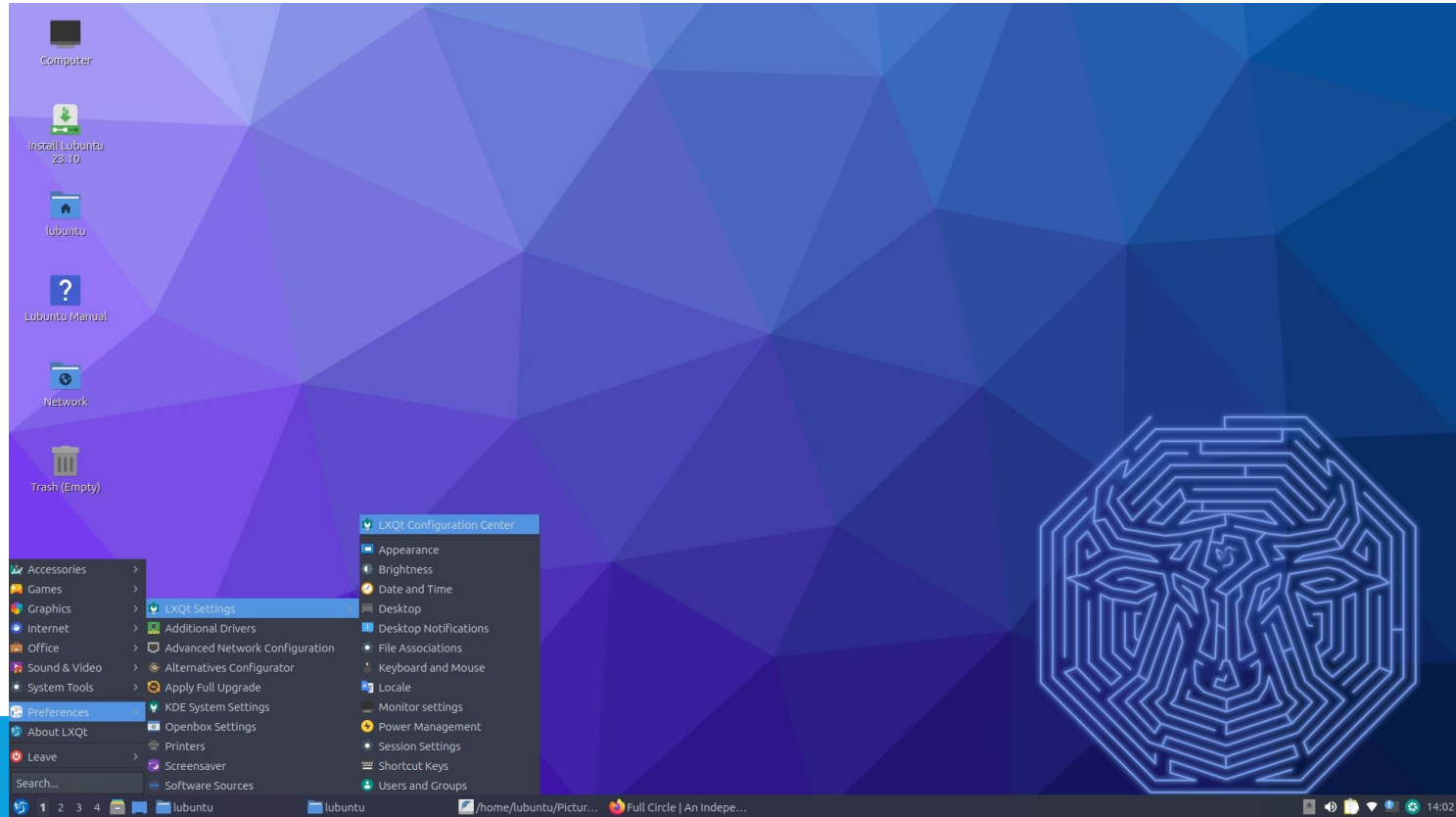
Kubuntu



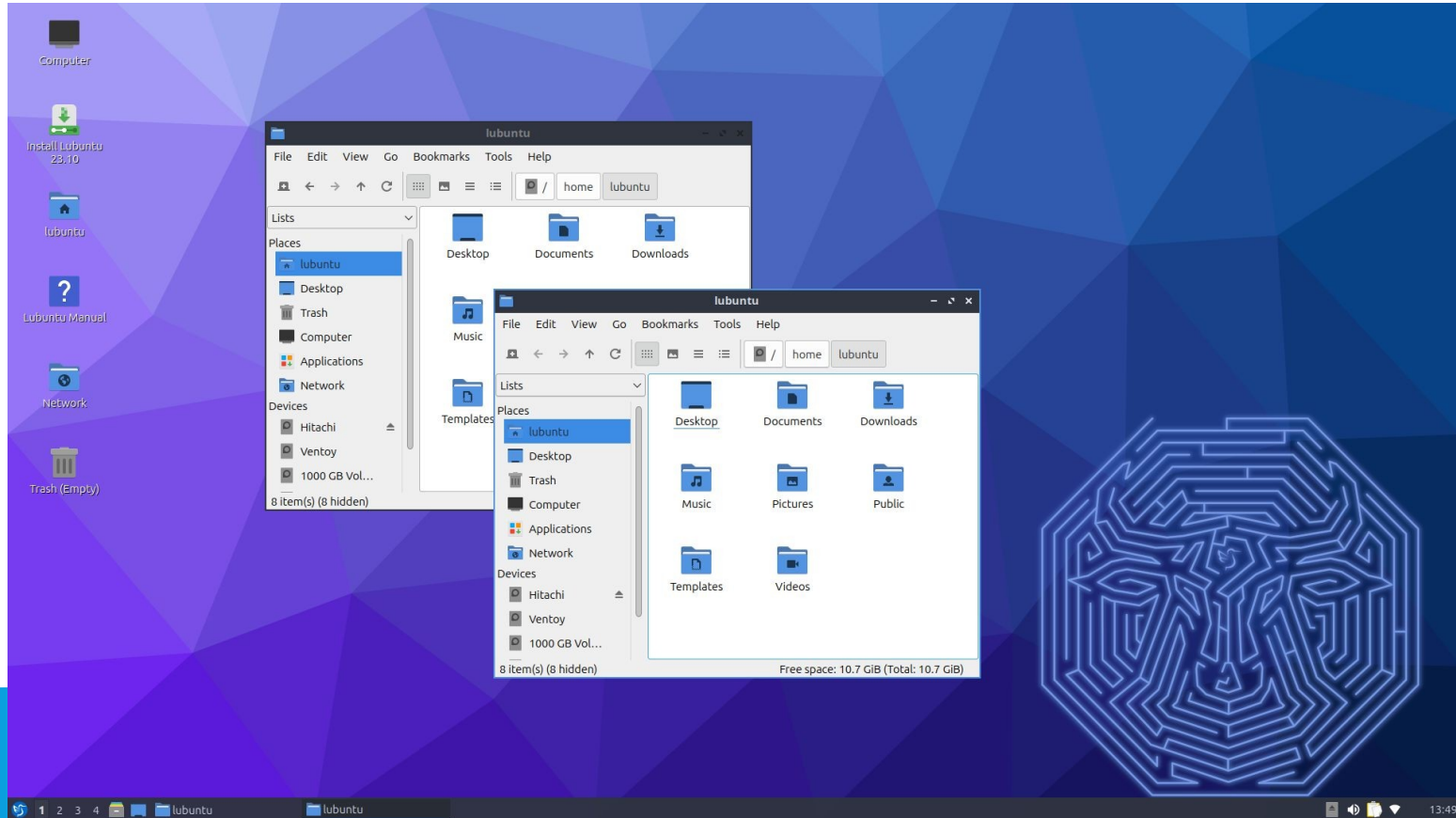
Lubuntu



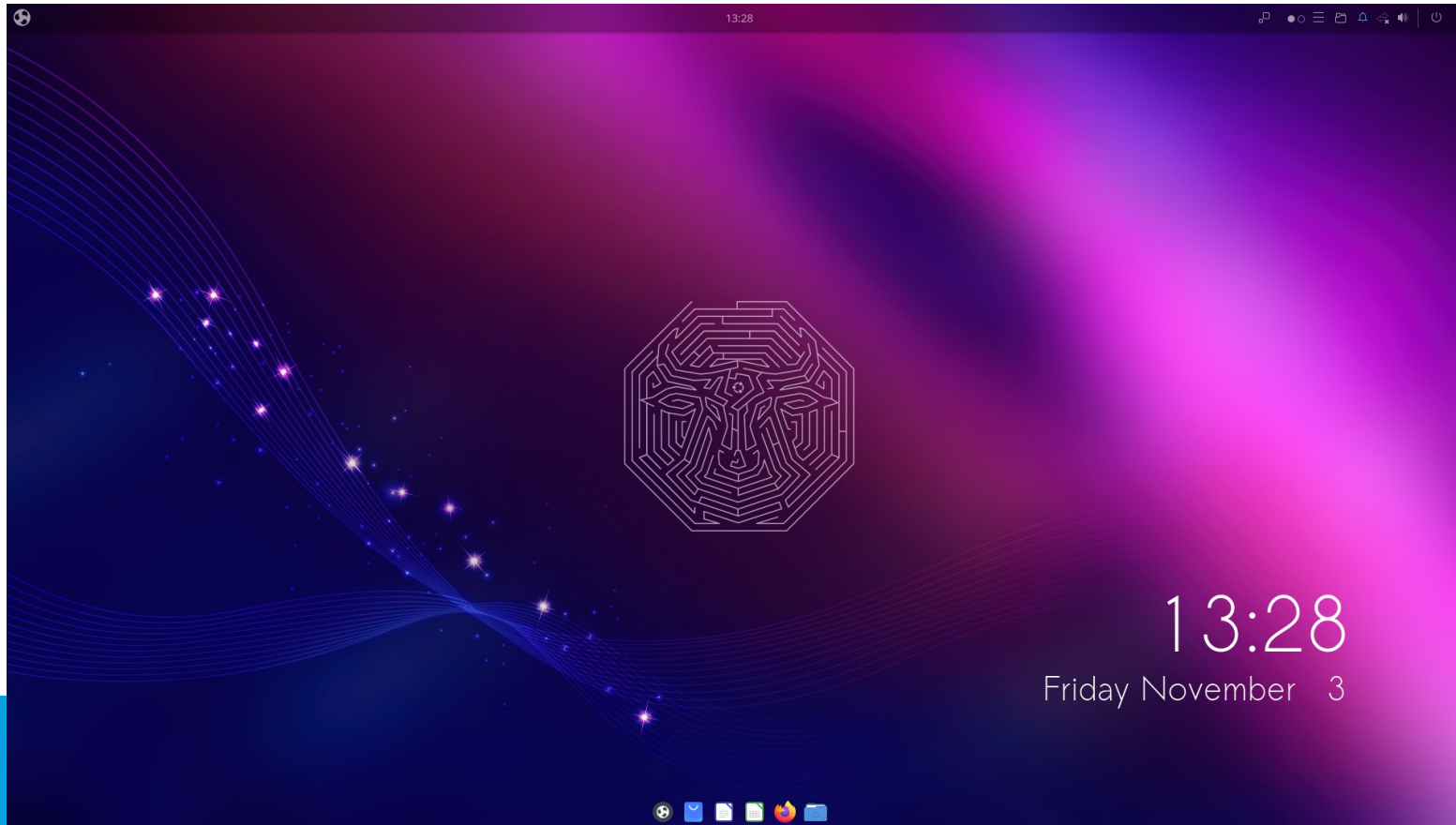
Lubuntu



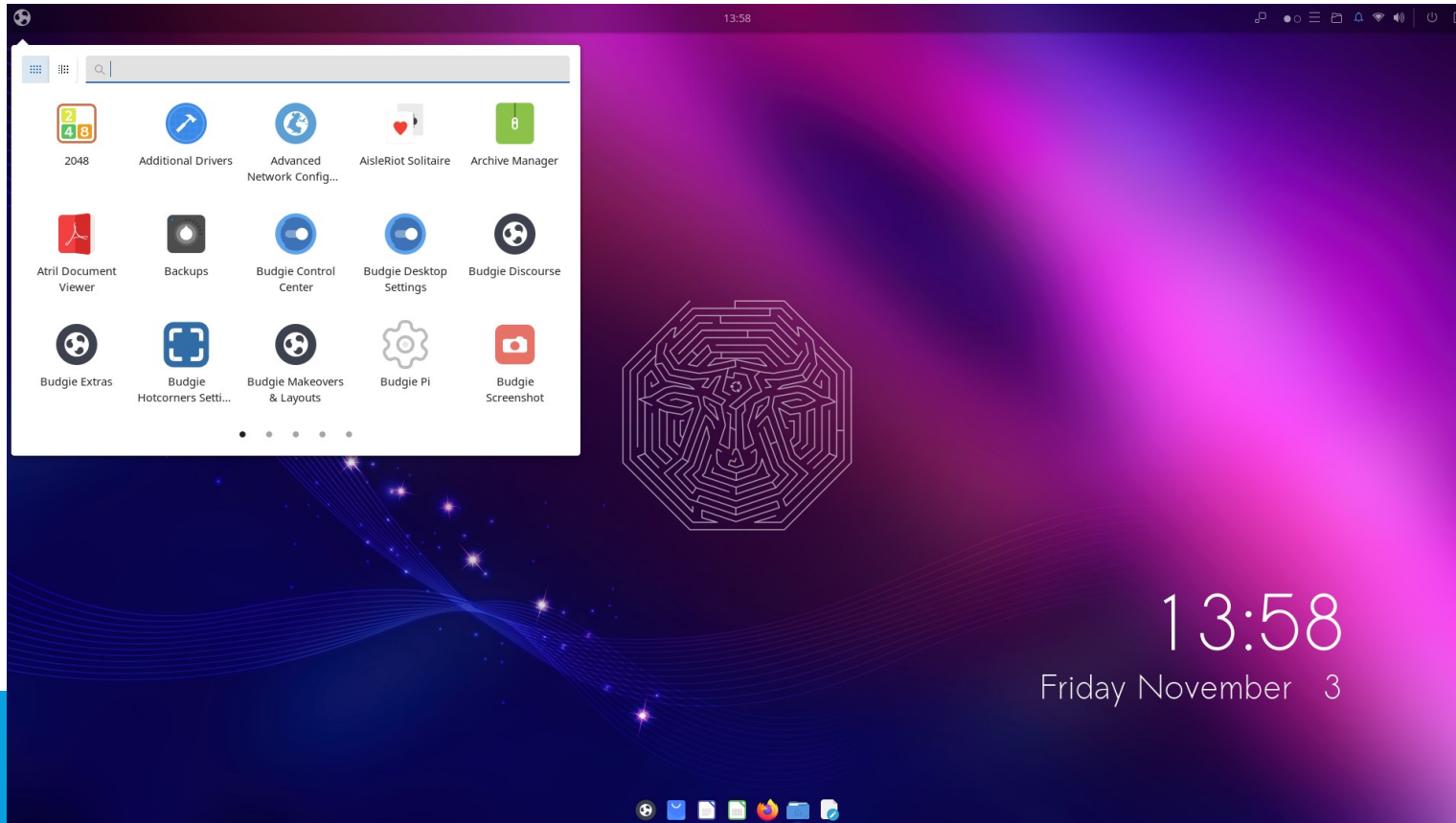
Lubuntu



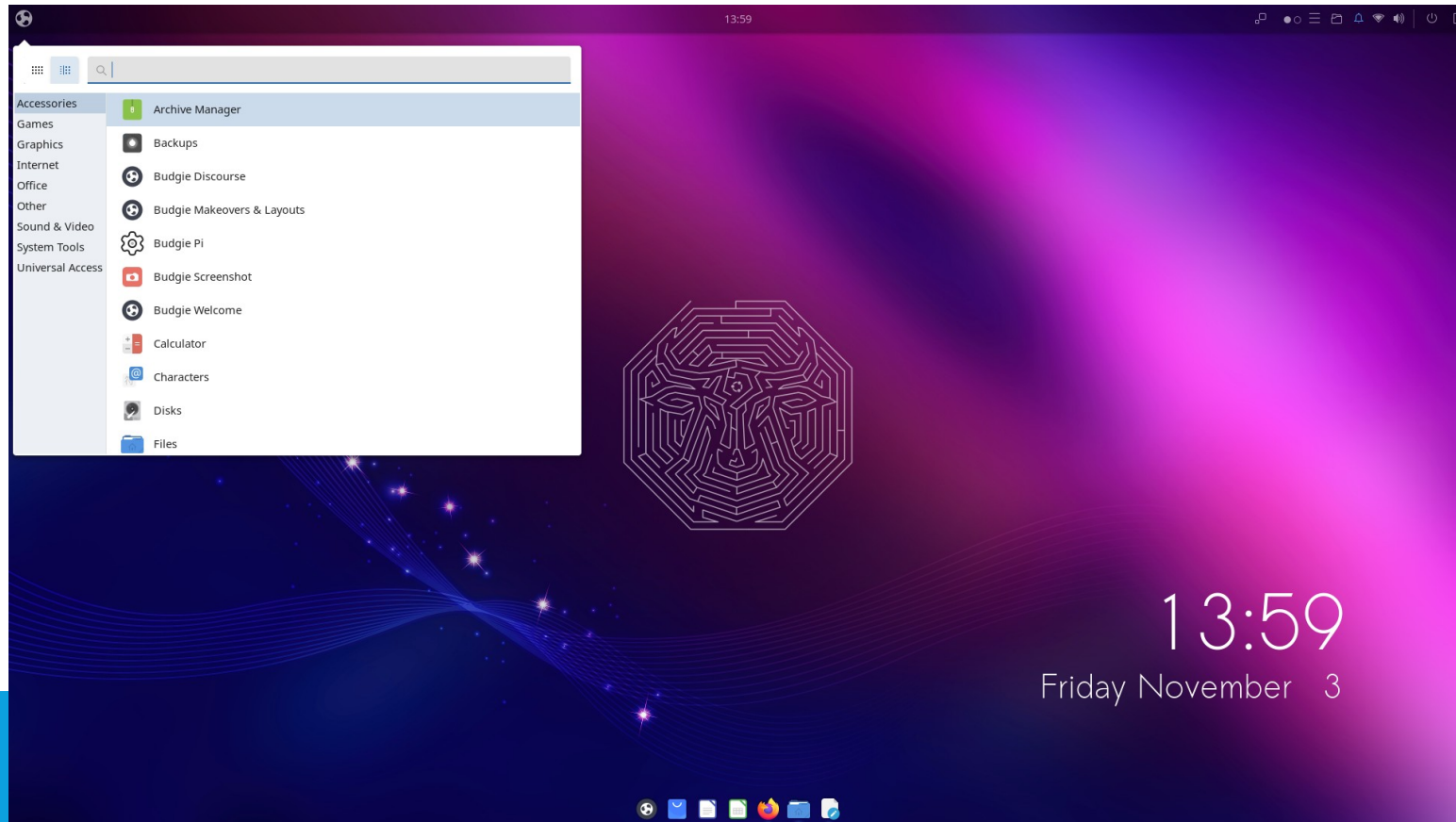
Ubuntu Budgie



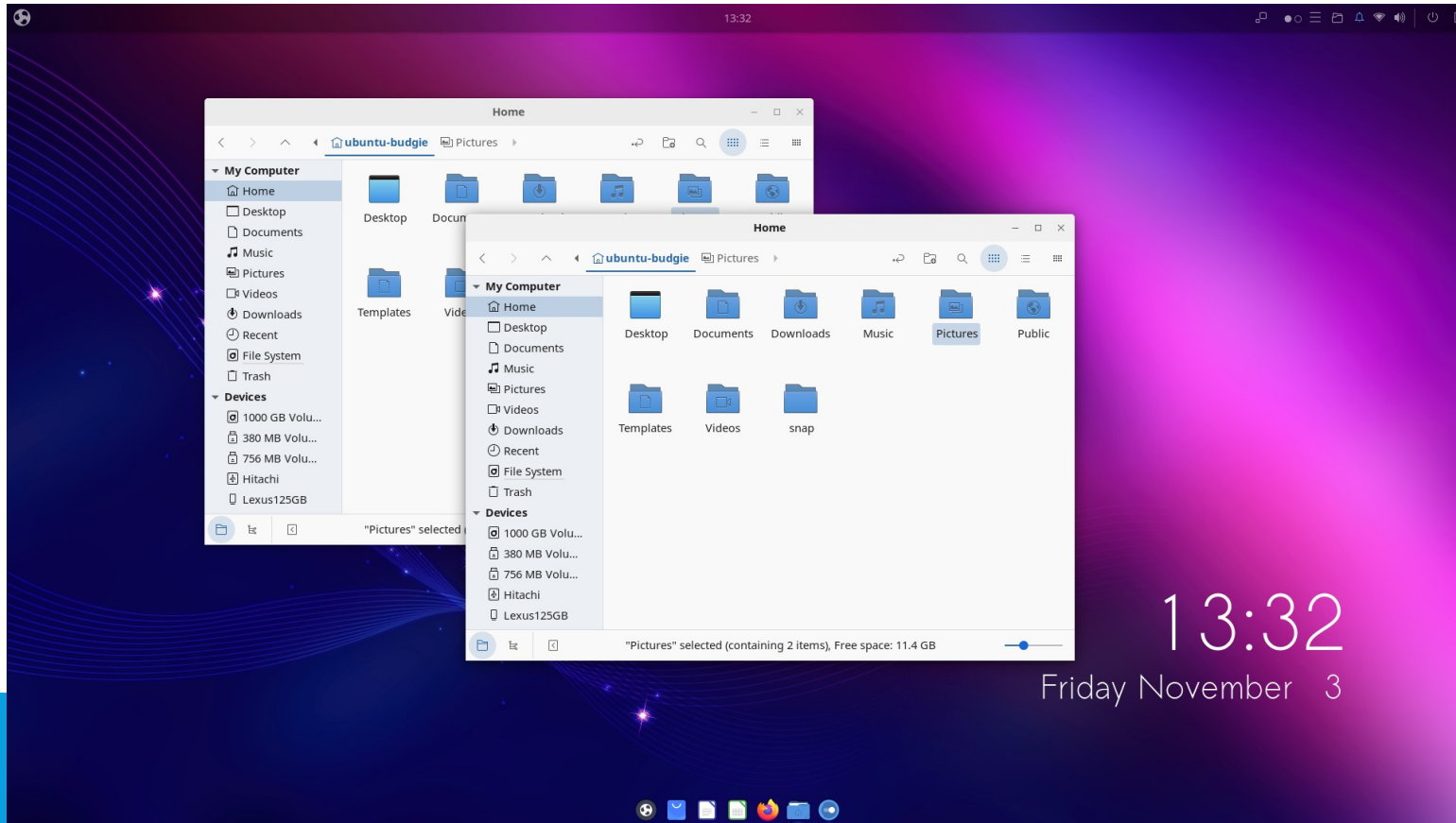
Ubuntu Budgie



Ubuntu Budgie

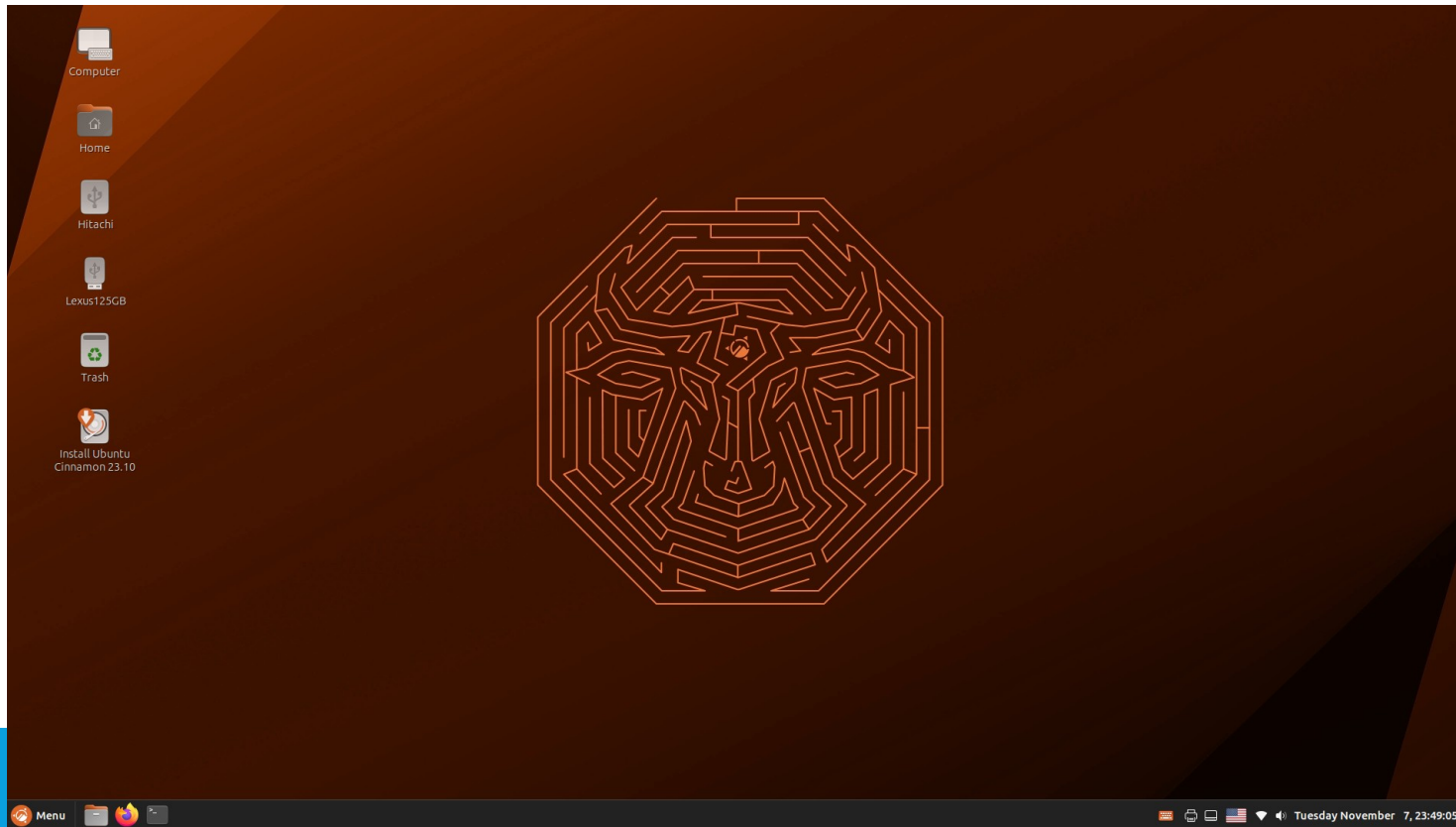


Ubuntu Budgie

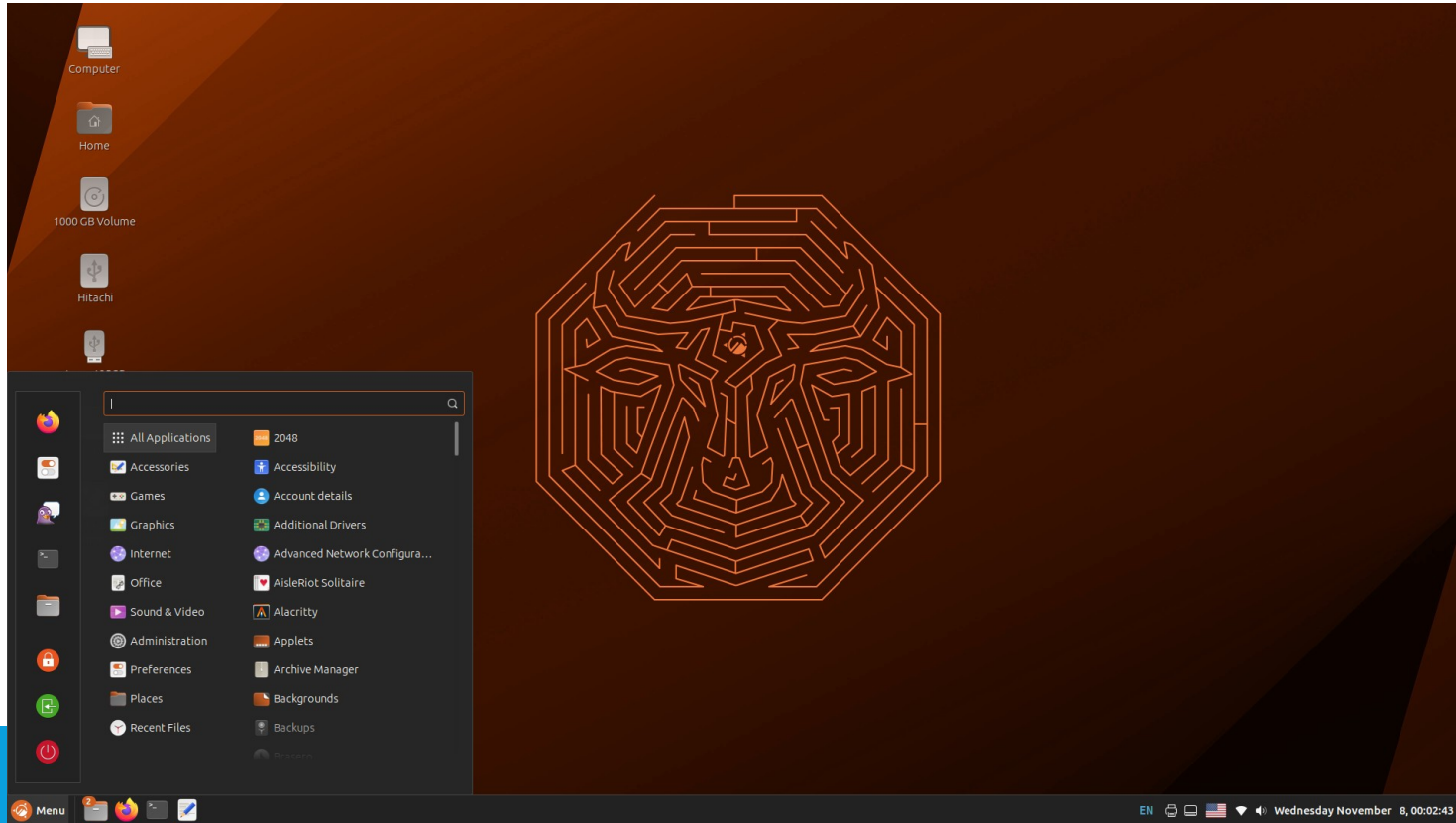


13:32
Friday November 3

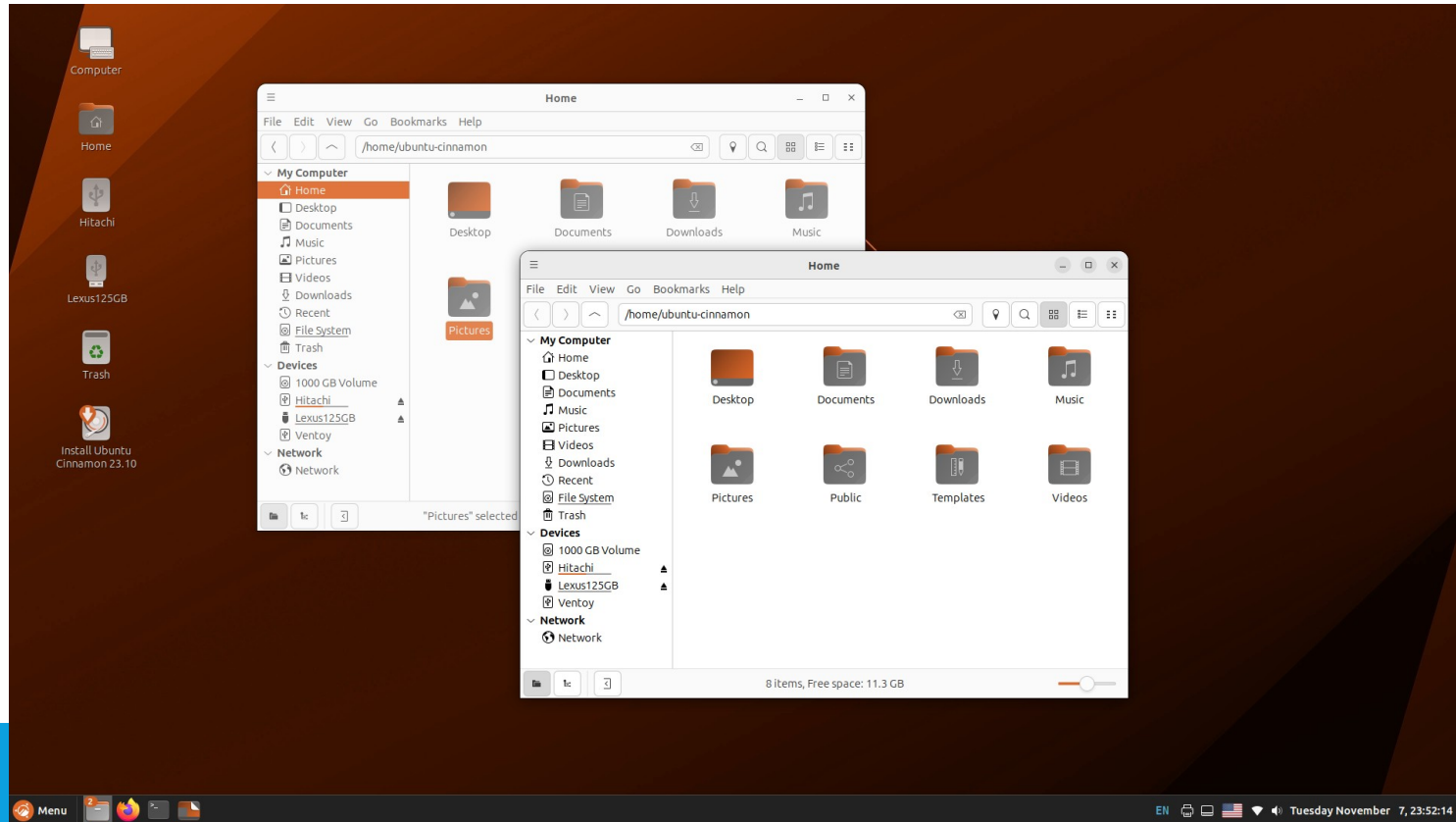
Ubuntu Cinnamon



Ubuntu Cinnamon



Ubuntu Cinnamon



Ubuntu MATE



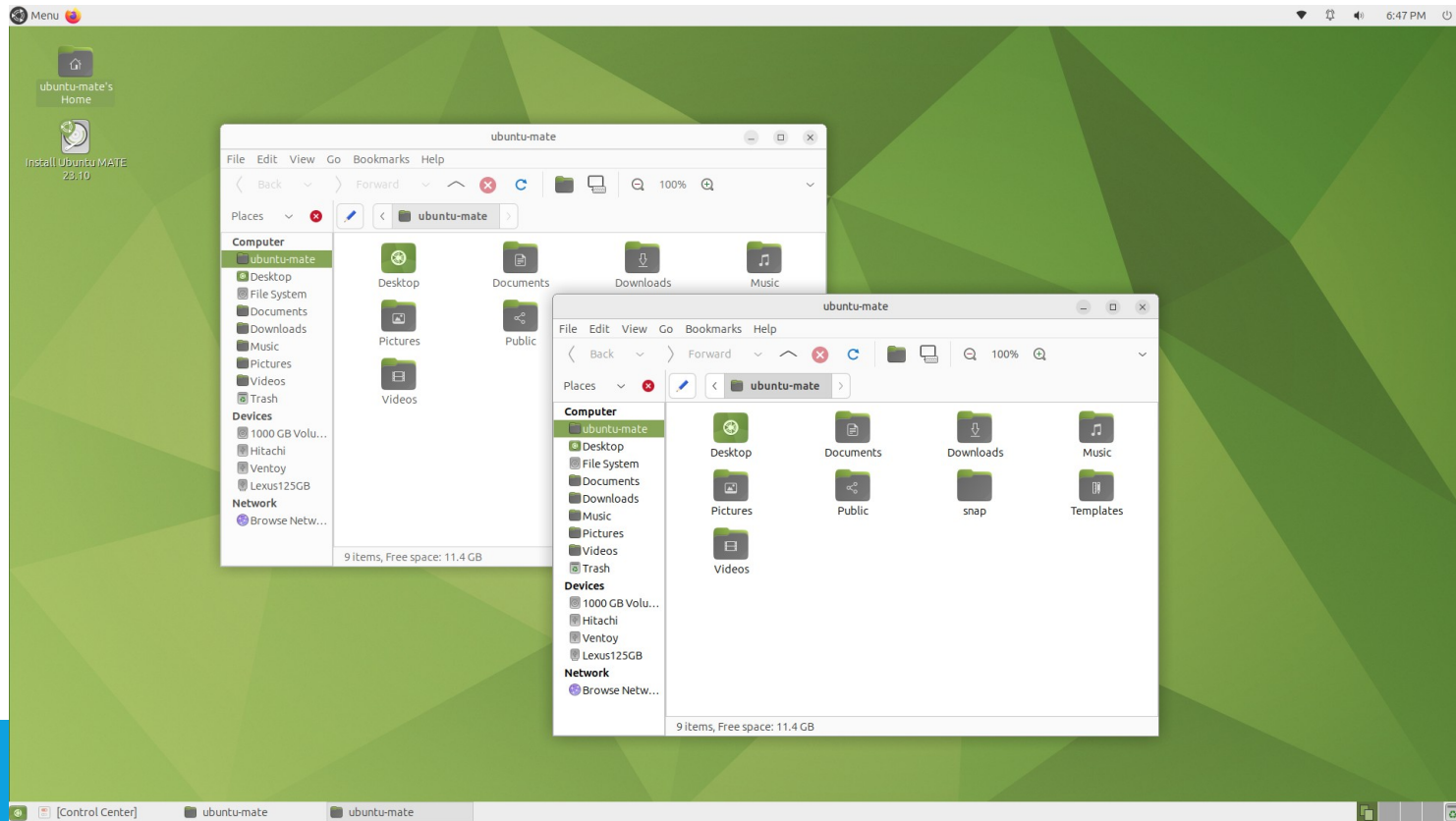
Ubuntu MATE



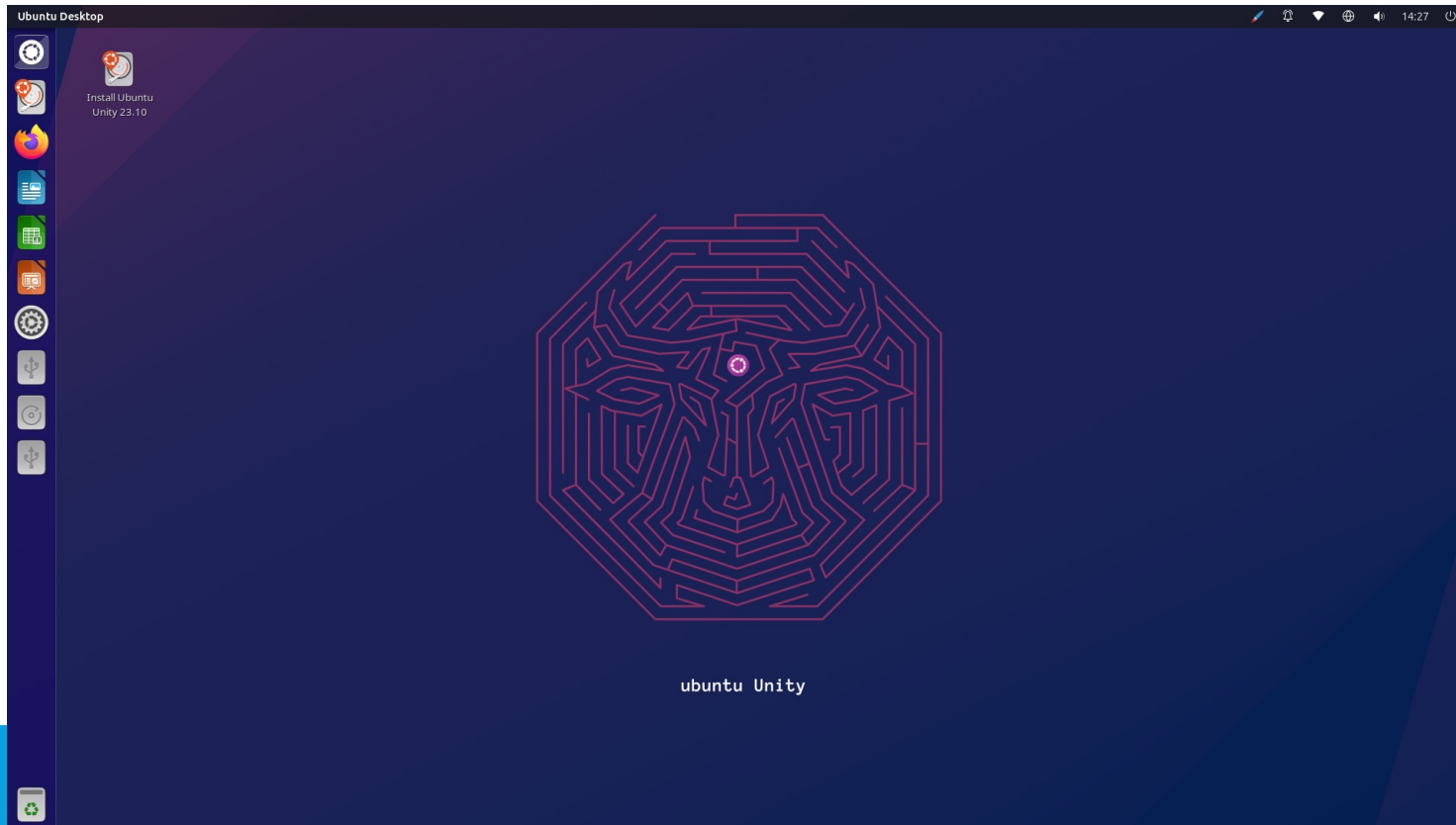
Ubuntu MATE



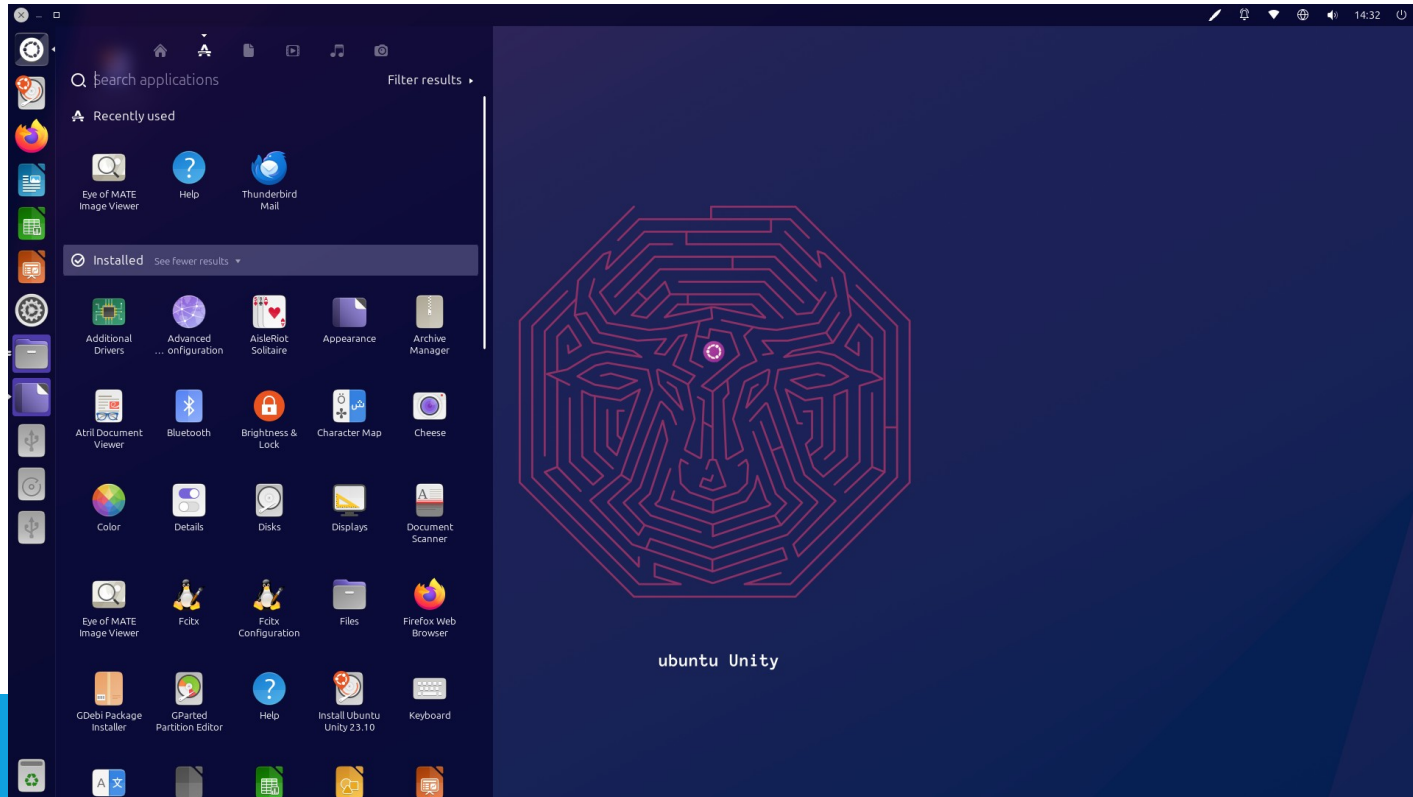
Ubuntu MATE



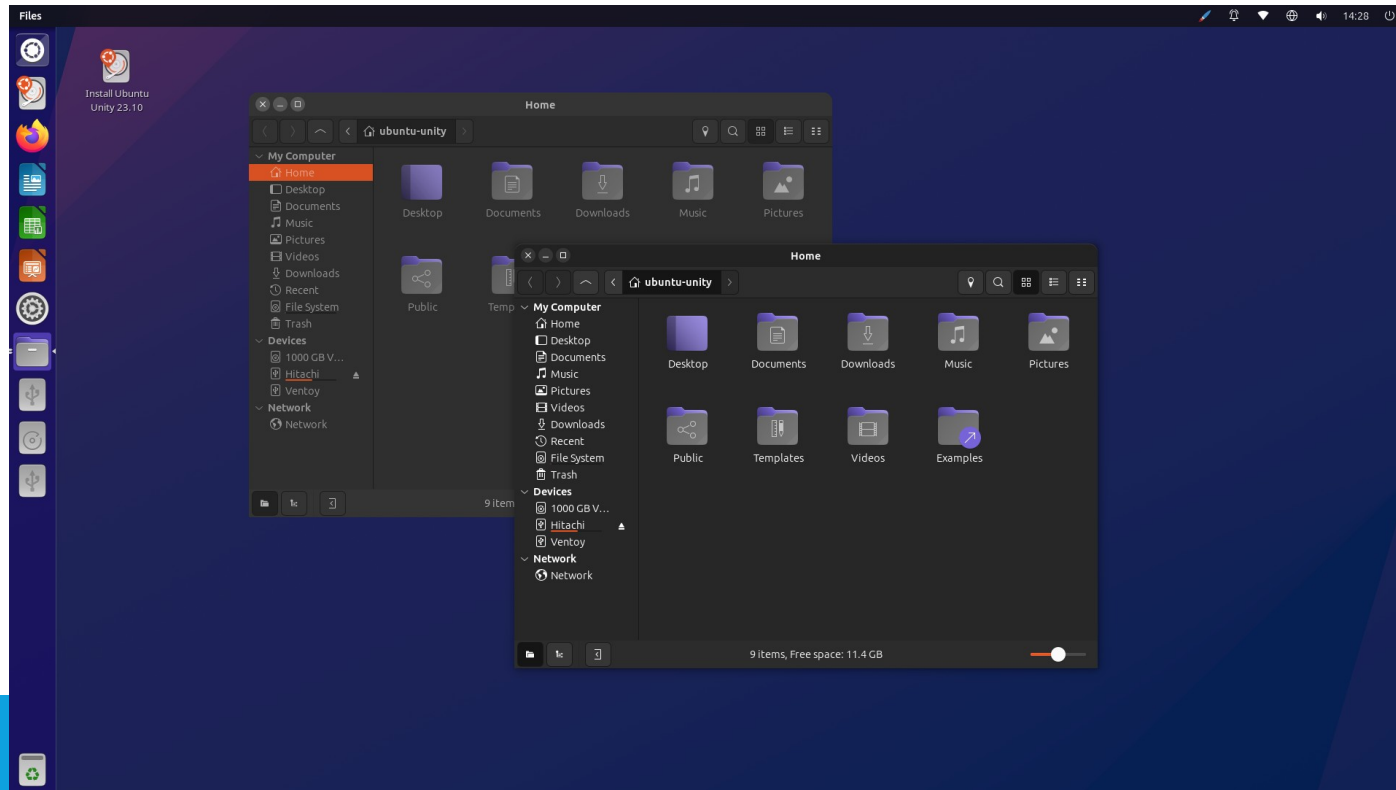
Ubuntu Unity



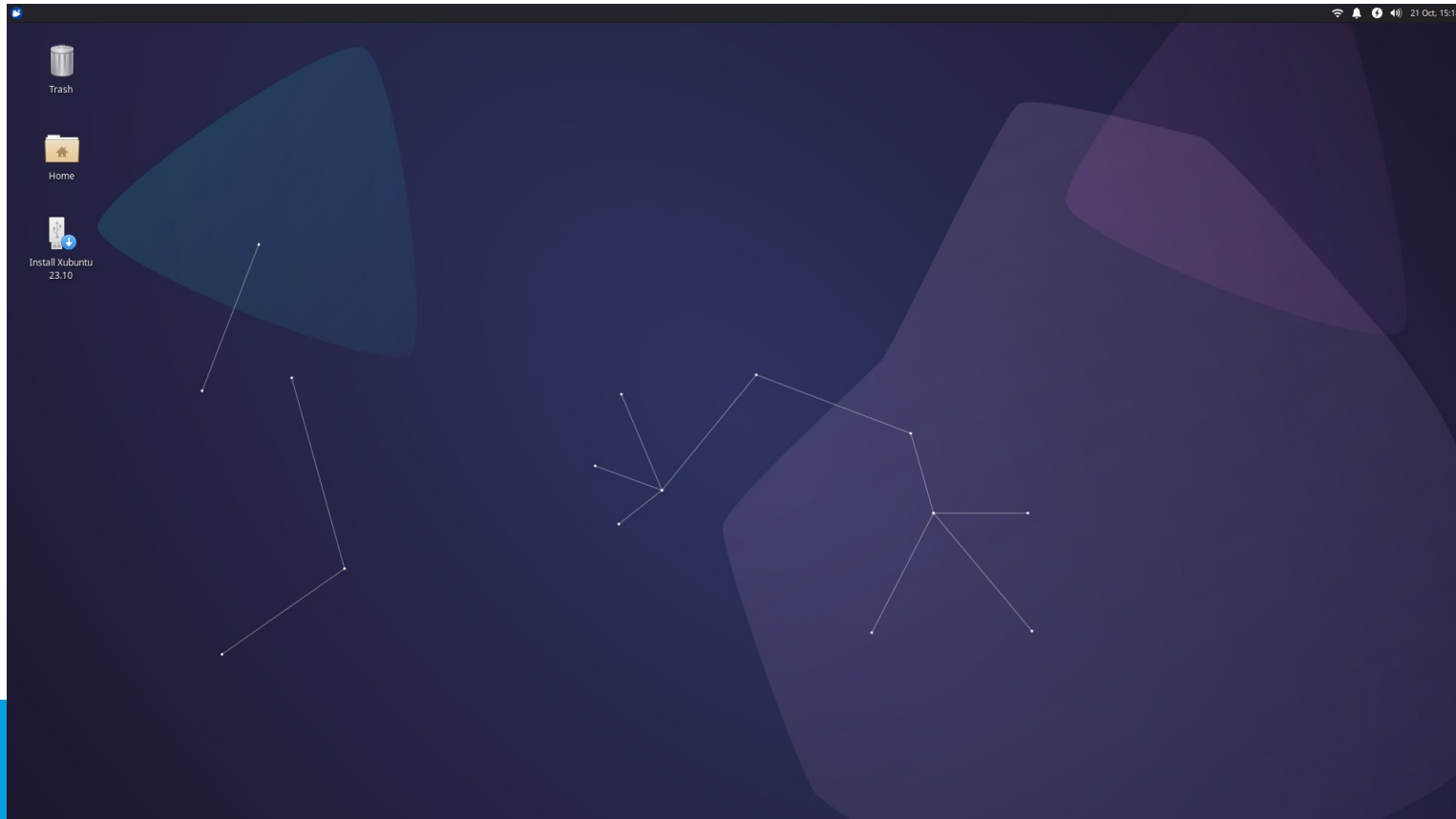
Ubuntu Unity



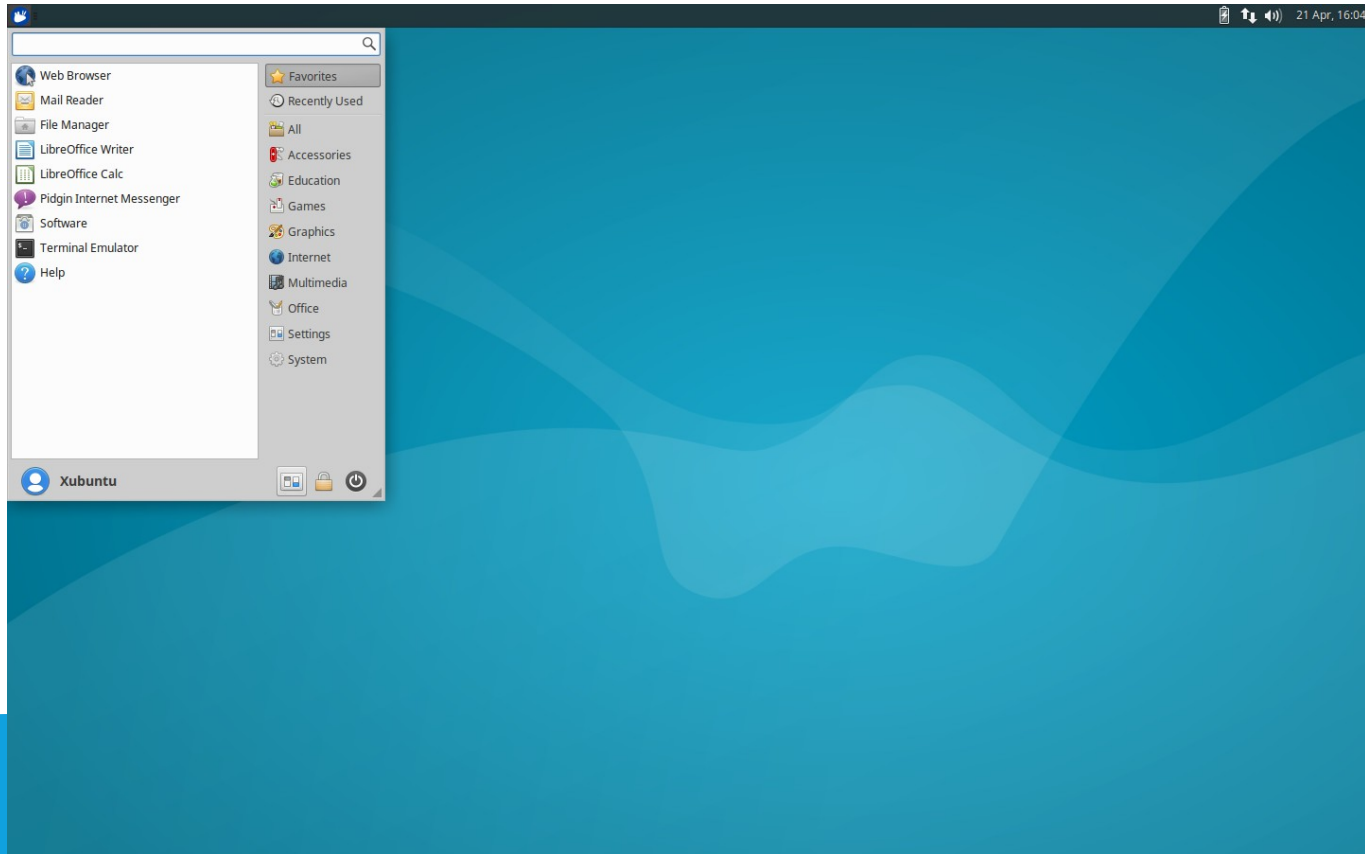
Ubuntu Unity



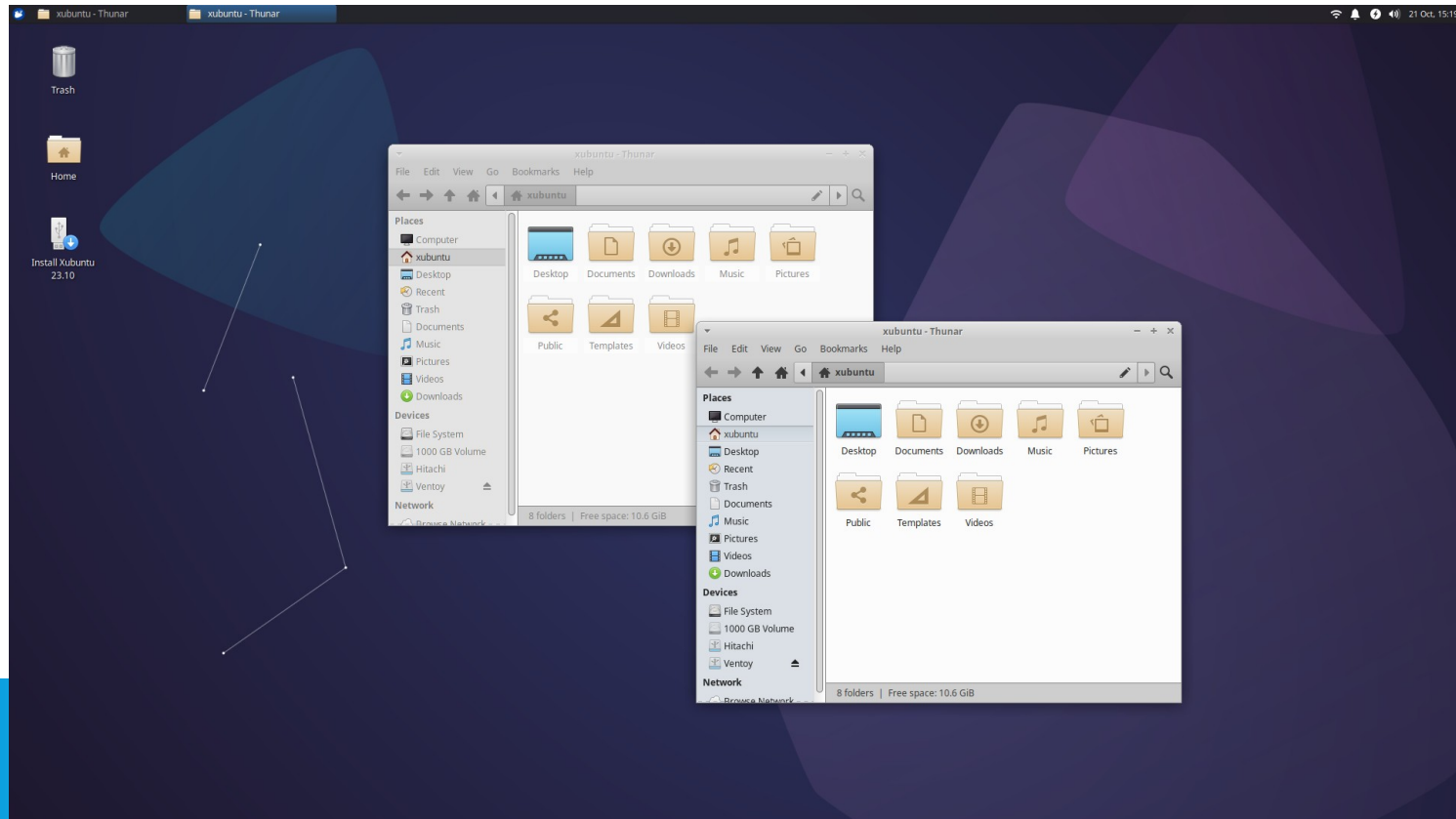
Xubuntu



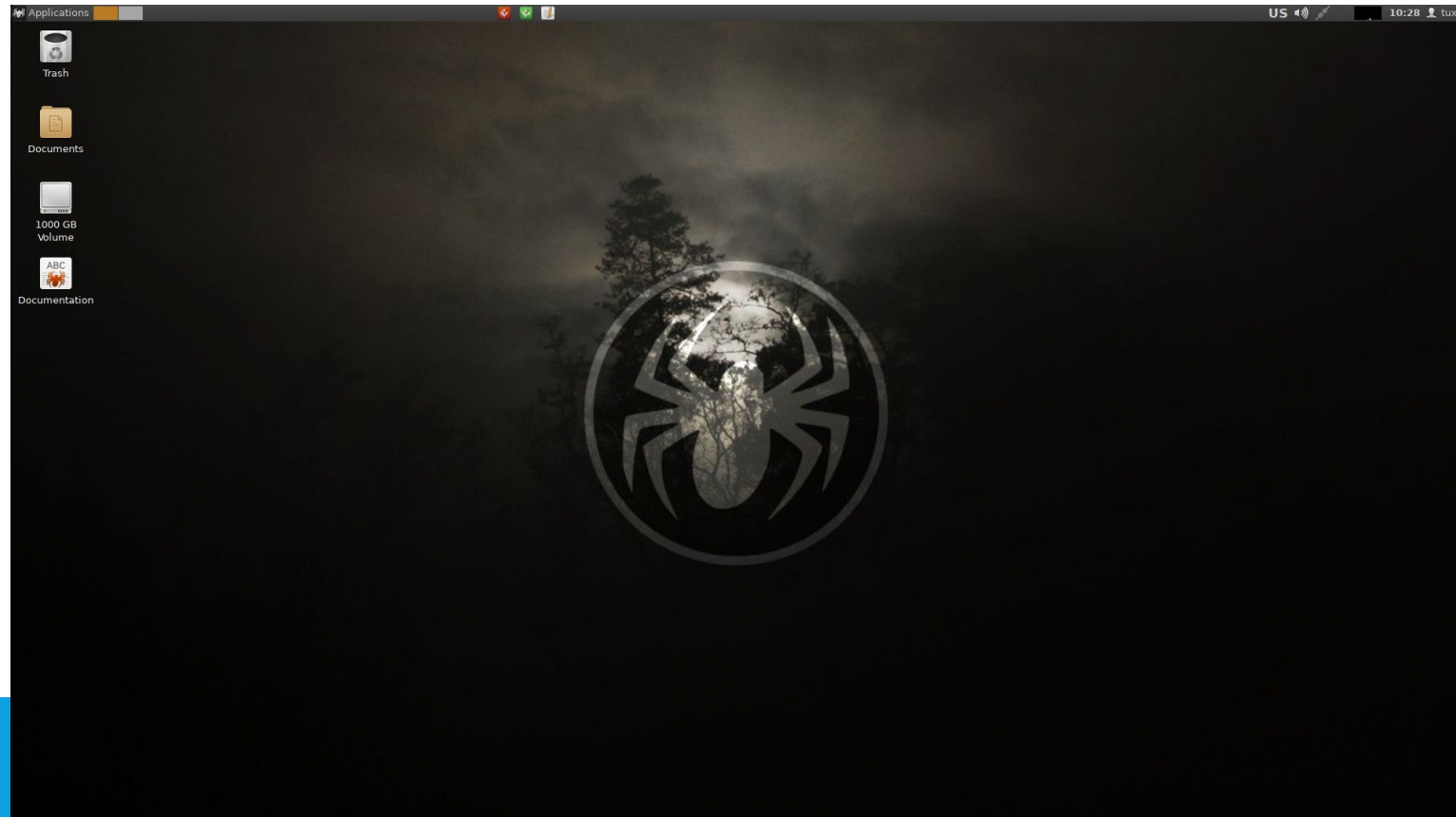
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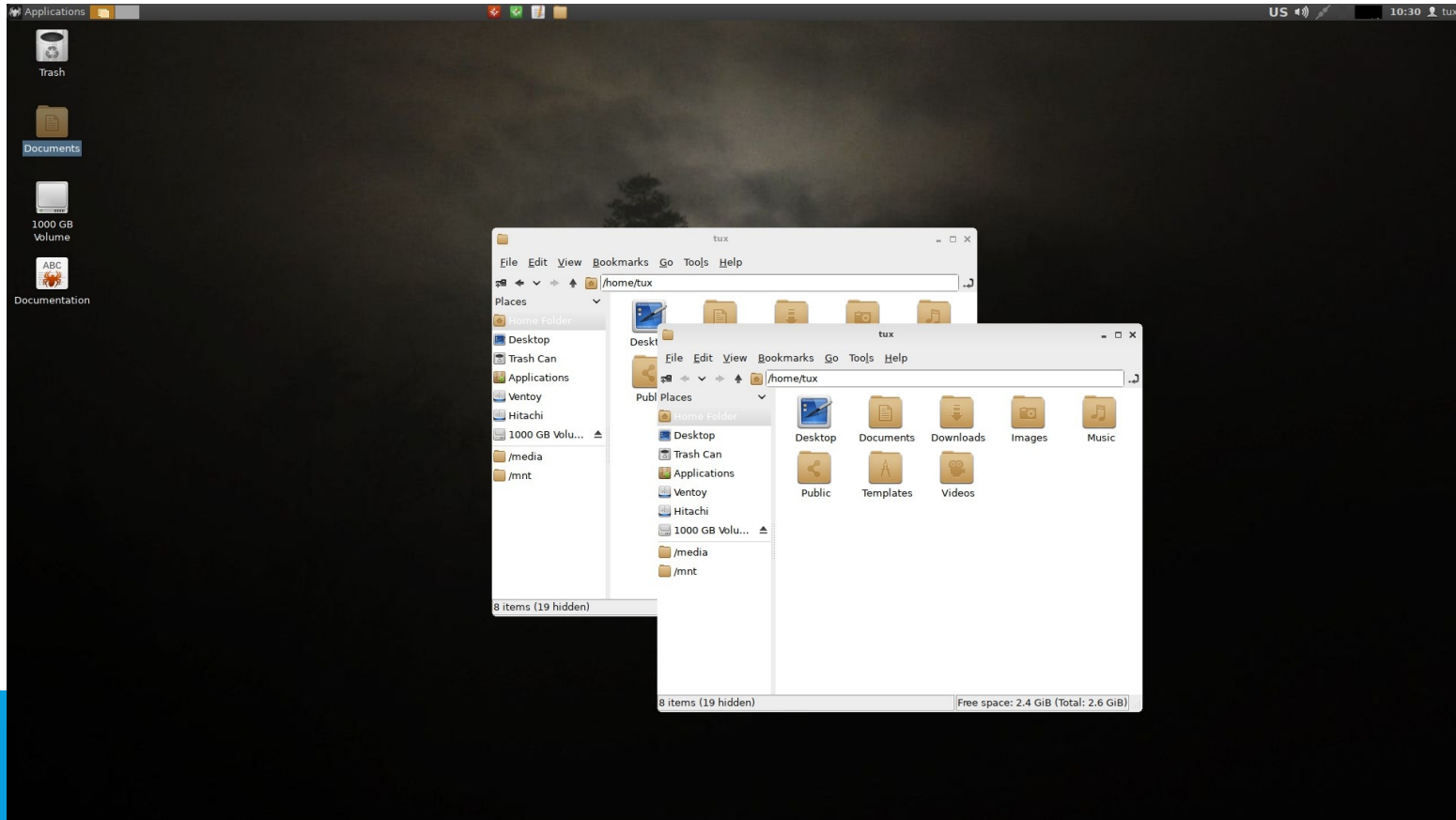
Xubuntu



SliTaz



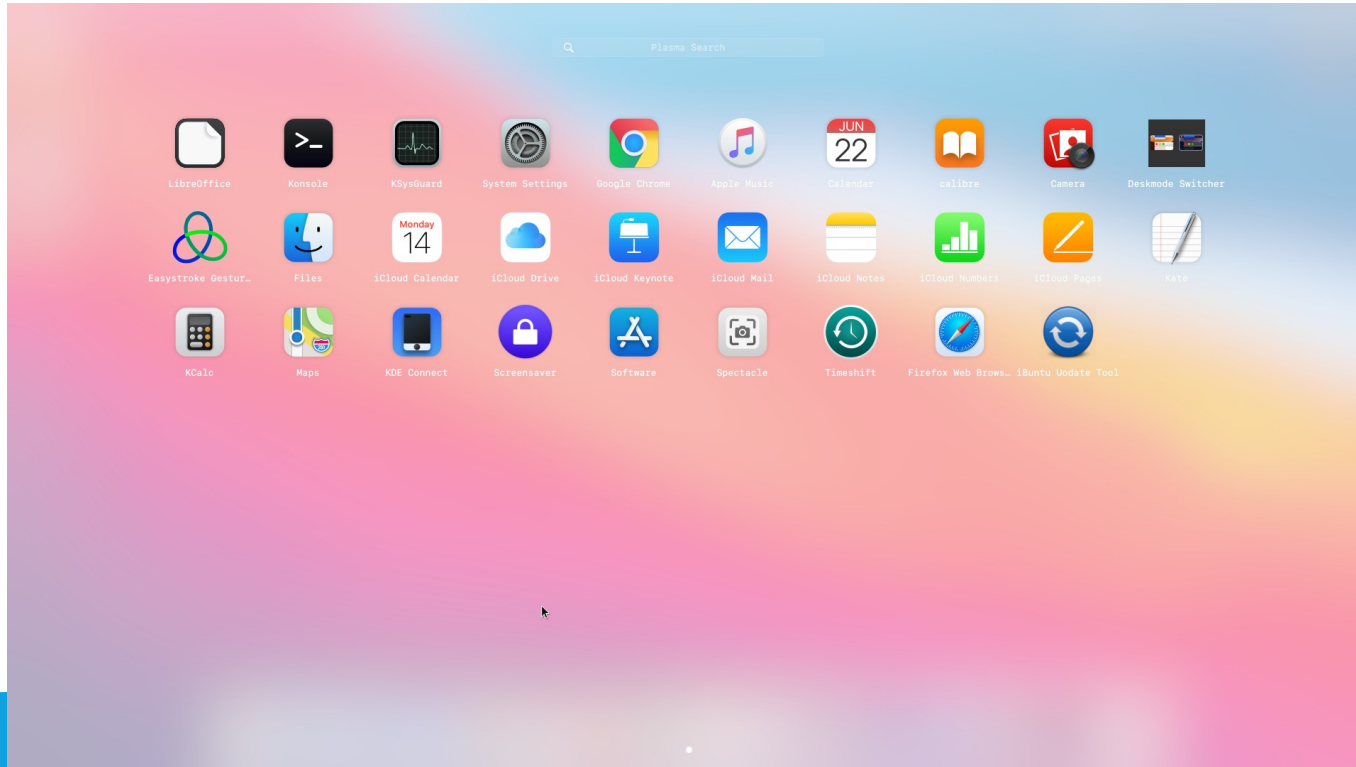
SliTaz



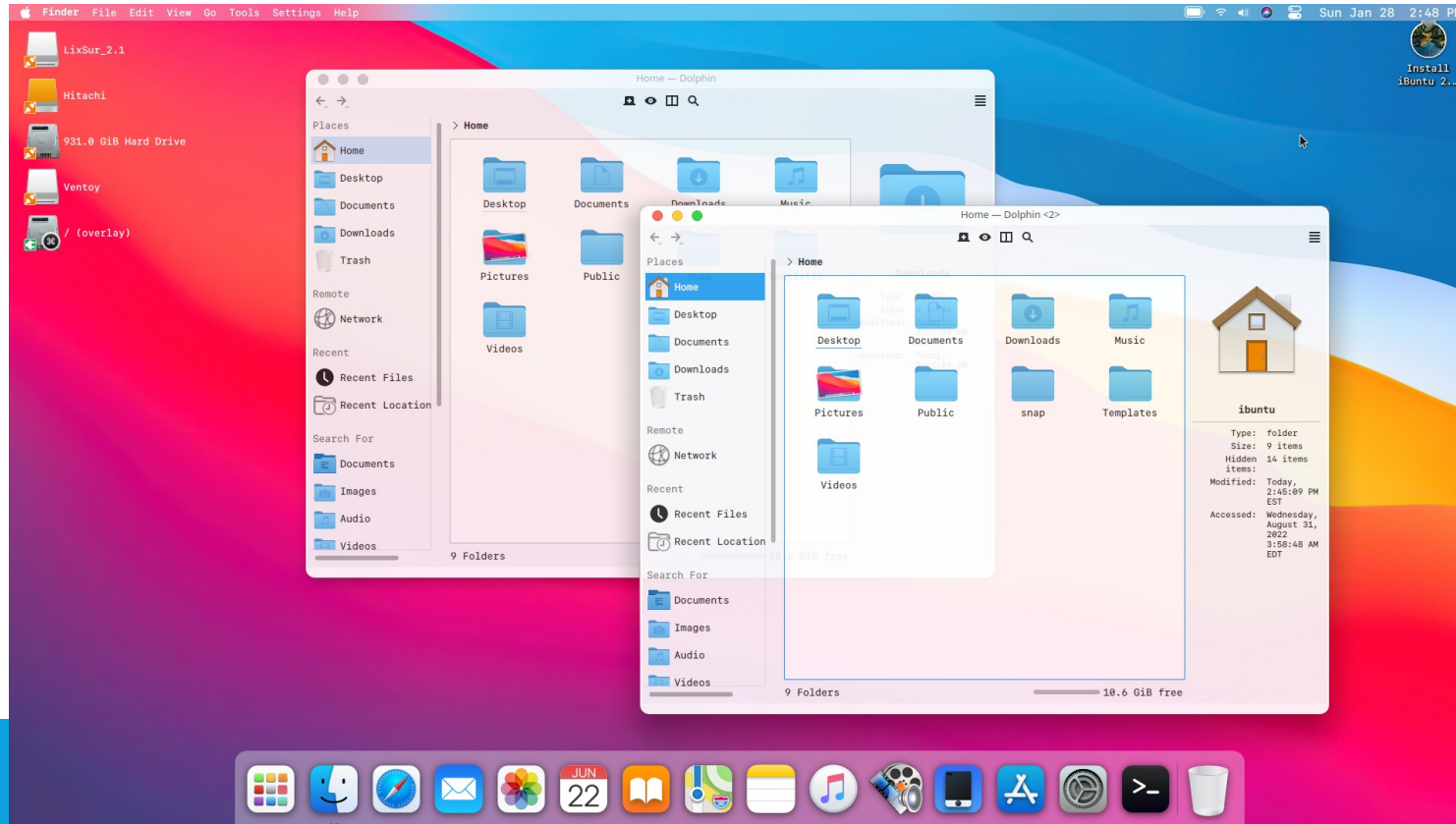
iBuntu



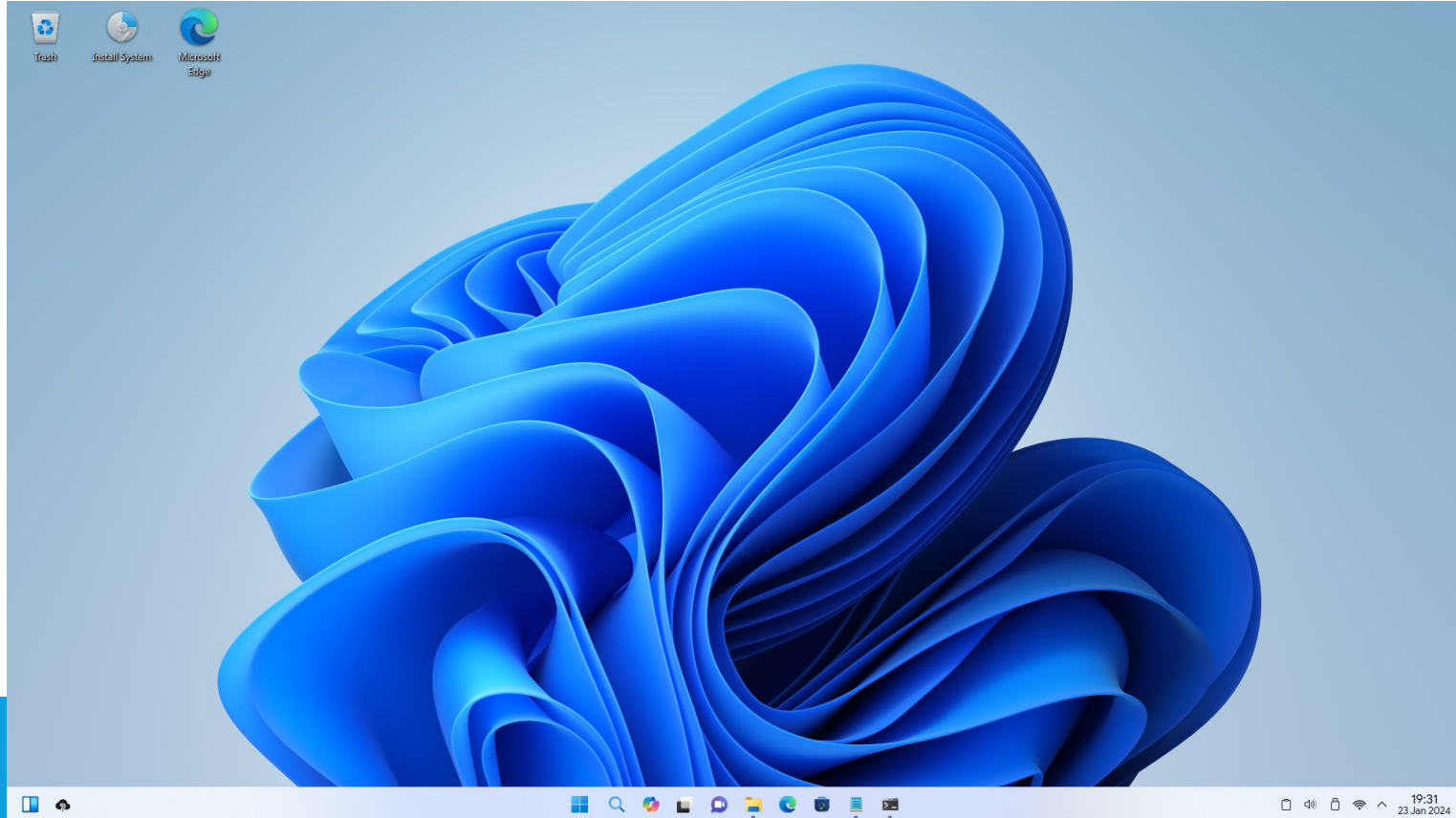
iBuntu



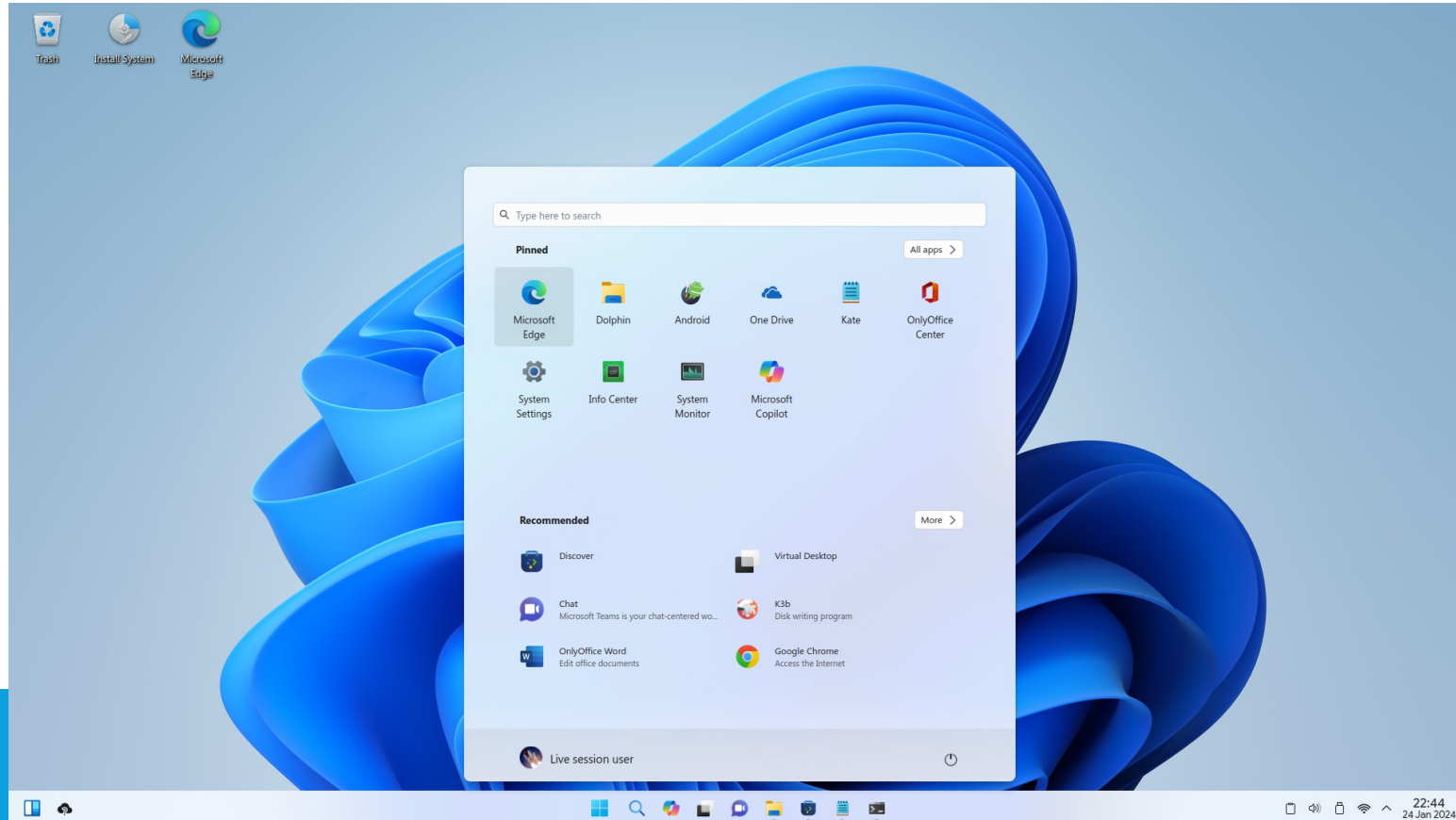
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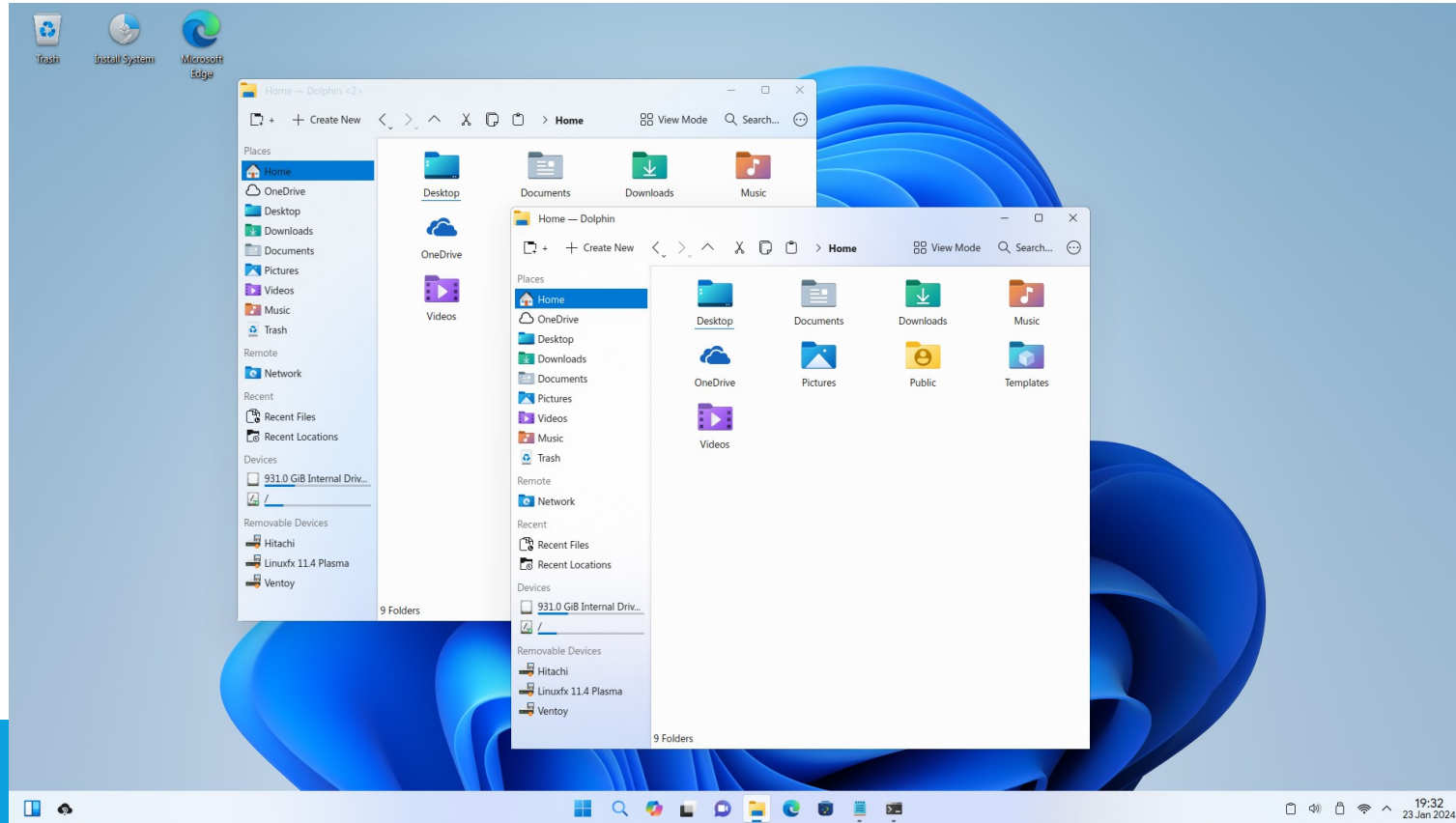
Wubuntu



Wubuntu



Wubuntu



Install Linux yourself

Applications and updates

What apps would you like to install to start with?

☒

 Normal installation
Web browser, utilities, office software, games and media players.

☐

 Minimal installation
Web browser and basic utilities.

Other options

☐ Install third-party software for graphics and Wi-Fi hardware
These drivers are subject to license terms included with their documentation. They are proprietary.☐ Download and install support for additional media formats
This software is subject to license terms included with its documentation. Some are proprietary.

Previous

Next

Or buy pre-installed



system76

 **Purism**

DELL Technologies

Conclusions

- There is a big world of high quality free software out there
 - For Windows and Macs
 - Plus free software operating systems
- Don't miss out!
- Remember: free software protects your freedom

Get involved!

- Use free software
- Write code
- Donate
- Promote

Resources

- PDF file of links
- PDF copy of this presentation

Questions?



Full Circle

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