

Linux: Ein Überblick

Werbung

Wer sind wir? Die Linux-AG!

<https://www.linux-ag.uni-tuebingen.de/presentation/index.xhtml>

Und wer seid ihr? (1/10)

- Microsoft

Und wer seid ihr? (2/10)

- Microsoft
- cmd

Und wer seid ihr? (3/10)

- Microsoft
- cmd
- Android

Und wer seid ihr? (4/10)

- Microsoft
- cmd
- Android
- Linux

Und wer seid ihr? (5/10)

- Microsoft
- cmd
- Android
- Linux
- Ubuntu / Mint

Und wer seid ihr? (6/10)

- Microsoft
- cmd
- Android
- Linux
- Ubuntu / Mint
- Distribution

Und wer seid ihr? (7/10)

- Microsoft
- cmd
- Android
- Linux
- Ubuntu / Mint
- Distribution
- Terminal

Und wer seid ihr? (8/10)

- Microsoft
- cmd
- Android
- Linux
- Ubuntu / Mint
- Distribution
- Terminal
- Bash

Und wer seid ihr? (9/10)

- Microsoft
- cmd
- Android
- Linux
- Ubuntu / Mint
- Distribution
- Terminal
- Bash
- zsh

Und wer seid ihr? (10/10)

- Microsoft
- cmd
- Android
- Linux
- Ubuntu / Mint
- Distribution
- Terminal
- Bash
- zsh
- Compilerflag

Und wer seid ihr? (11/10)

- Microsoft
- cmd
- Android
- Linux
- Ubuntu / Mint
- Distribution
- Terminal
- Bash
- zsh
- Compilerflag
- Off-By-One-Error

Am 6. Juli ist der Tübix (Tübinger Linuxtag):

- <https://www.tuebix.org/>

Was machen wir heute?

- Was ist Linux? Warum nicht Microsoft?
- Anwendungsprogramme: Was sind die Alternativen?
- Standardprogramm für Texte, Präsentationen, Excel
- Dateimanager
- Überblick über verschiedene Distributionen
- Grundlegender Umgang mit dem Terminal

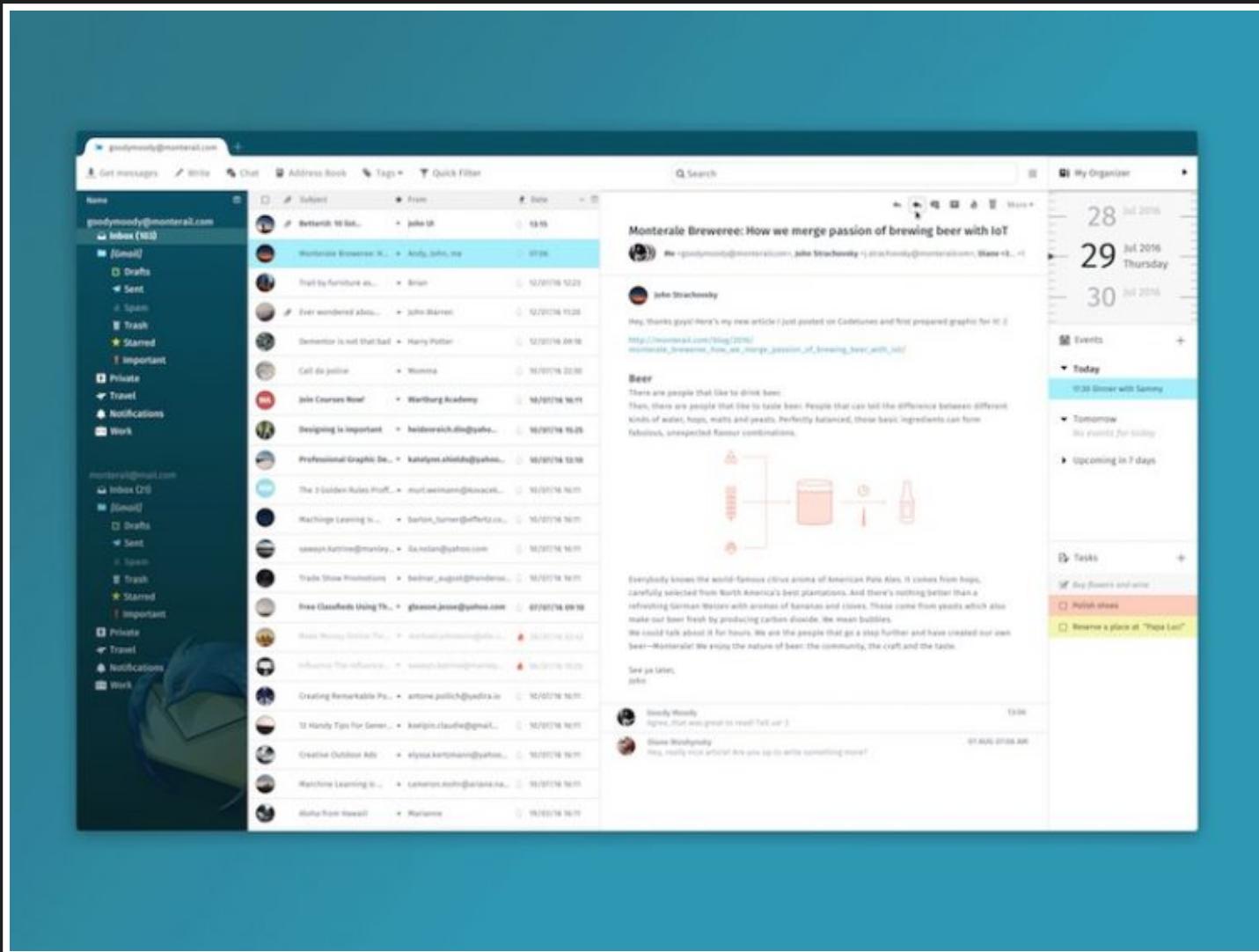
Was ist Linux?

- Linux ist der freie Kern vieler Betriebssysteme (Debian, Ubuntu, Android, Arch, ...)
- Wird in vielen Bereichen verwendet: Server, Desktops, IoT devices, Supercomputer, ...

Warum nicht Windows?

- Nicht Open-Source
- Übermittlung von Telemetriedaten nicht abschaltbar
- Abhängigkeit von einem Großkonzern
- Braucht viel Speicherplatz + Windows Updates sind langsam
- Repositories!

E-Mails lesen: Thunderbird



Im Web surfen: Firefox

Wikipedia, the free encyclopedia - Mozilla Firefox

https://en.wikipedia.org/wiki/Main_Page

Main page Talk Read View source View history TW Search Wikipedia Vulphre Talk Sandbox Preferences Beta Watchlist Contributions Log out

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5,793,221 articles in English

From today's featured article

 **Tropical Storm Marco** was the only tropical cyclone to make landfall in the United States during the 1990 Atlantic hurricane season. The 13th named storm of the season, Marco formed from a cold-core low pressure area along the northern coast of Cuba on October 9, and tracked northwestward through the eastern Gulf of Mexico. Its circulation produced 65 mph (100 km/h) winds over the western portion of Florida before weakening to a tropical depression and moving ashore near Cedar Key. The cyclone combined with a cold front and the remnants of Hurricane Klaus to produce heavy rainfall in Georgia and the Carolinas. After interacting with the nearby Hurricane Lili, Marco continued northward until being absorbed by a cold front. In Florida, the cyclone triggered flooding of some roadways. Rainfall across its path peaked at 19.89 inches (505 mm) in Louisville, Georgia. The flooding caused 12 deaths, mostly due to drowning, as well as \$57 million in damage. ([Full article...](#))

Recently featured: Ambrose Rookwood · Mascarene grey parakeet · Antlia Archive · By email · More featured articles

Did you know...

- ... that DNA testing suggests that **Loschbour man** (pictured), an 8,000-year-old human skeleton found in Luxembourg in 1935, had dark skin?
- ... that **Cemile Timur** founded, played for, and now coaches a football club recently promoted to the Turkish Women's First League?
- ... that the recently rediscovered and restored 1898 short film **Something Good - Negro Kiss** counters racist caricatures?
- ... that **Philip Petty** received the **Medal of Honor** for raising his regiment's colors during the **Battle of Fredericksburg**?
- ... that a storyline about domestic abuse from the **eighteenth series** of *Holby City* sparked 177 calls to the BBC's support line?

 Loschbour man

In the news

- Two bombs at the Cathedral of Our Lady of Mount Carmel (aftermath pictured) in Jolo, Philippines, kill at least eighteen people and leave more than eighty others injured.
- A mining dam collapses in Brumadinho, Brazil, leaving more than eighty people dead and hundreds of others missing.
- More than sixty people are killed in flooding across South Sulawesi, Indonesia.
- More than a hundred Afghan National Security Forces members are reportedly killed in an attack on a military compound in Maidan Shar.

Aftermath of the Jolo Cathedral bombings

Ongoing: Venezuelan presidential crisis
Recent deaths: Ingvald Godal · Pierre Nanterme · Varoujan Garabedian · George Fernandes

Nominate an article

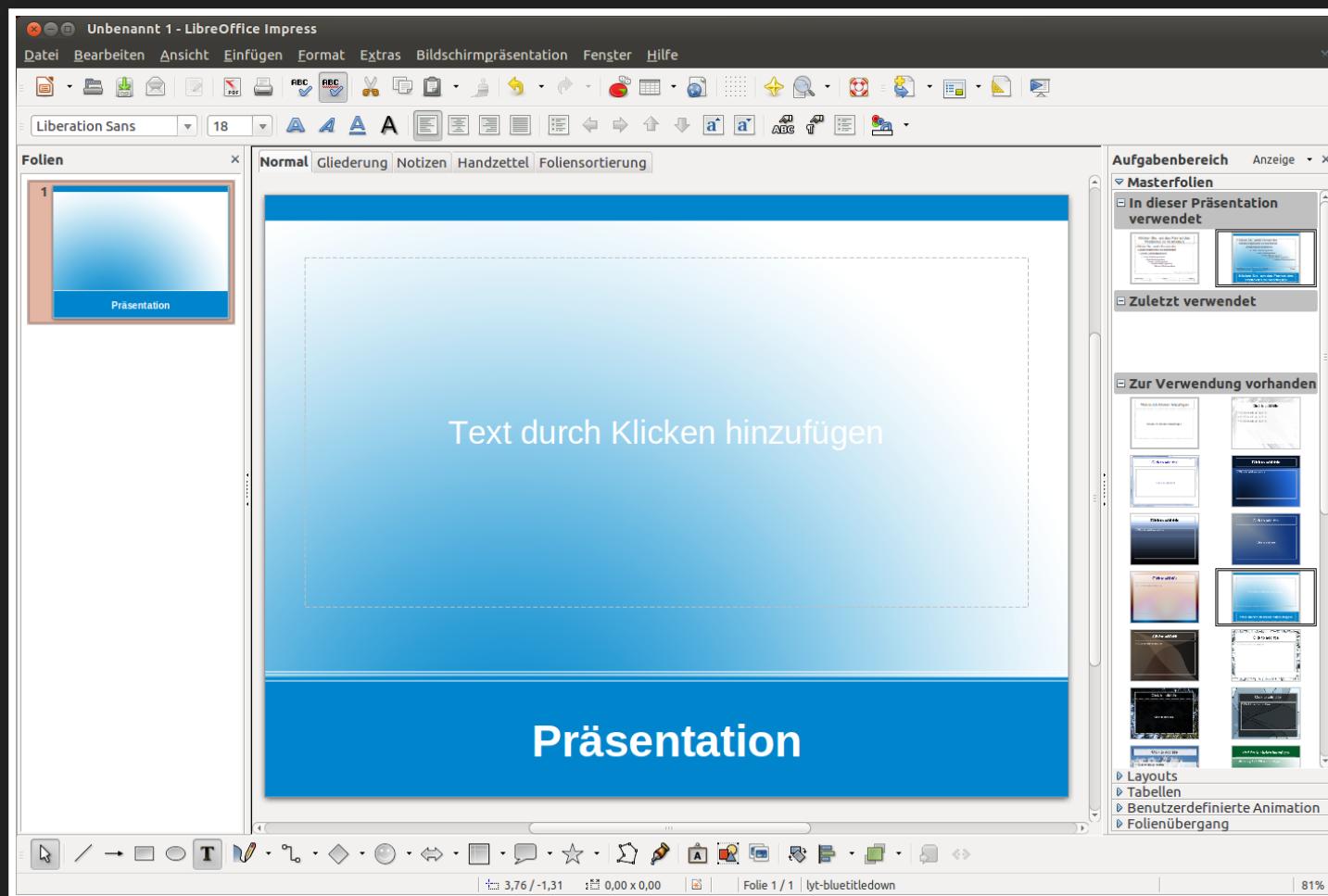
On this day

February 1: Black History Month begins in Canada and the United States; Fajr decade begins in Iran; National Freedom Day in the United States

- 1329 – The Teutonic Knights succeeded in their **siege of a fortress** in Samogitia, Lithuania, and baptized the defenders in the Catholic rite.
- 1411 – The **First Peace of Thorn** was signed, ending the **Polish–Lithuanian–Teutonic War**.
- 1960 – Four African American students staged the first **Greensboro sit-ins** at a lunch counter in Greensboro, North Carolina.
- 1972 – **Kuala Lumpur** gained city status, the first settlement in Malaysia to do so after the nation's independence from the United Kingdom.
- 2009 – **Jóhanna Sigurðardóttir** (pictured) became Iceland's first female **Prime Minister** and Jóhanna Sigurðardóttir

https://commons.wikimedia.org/wiki/Special:MyLanguage/Commons:Wiki_Loves_Love_2015

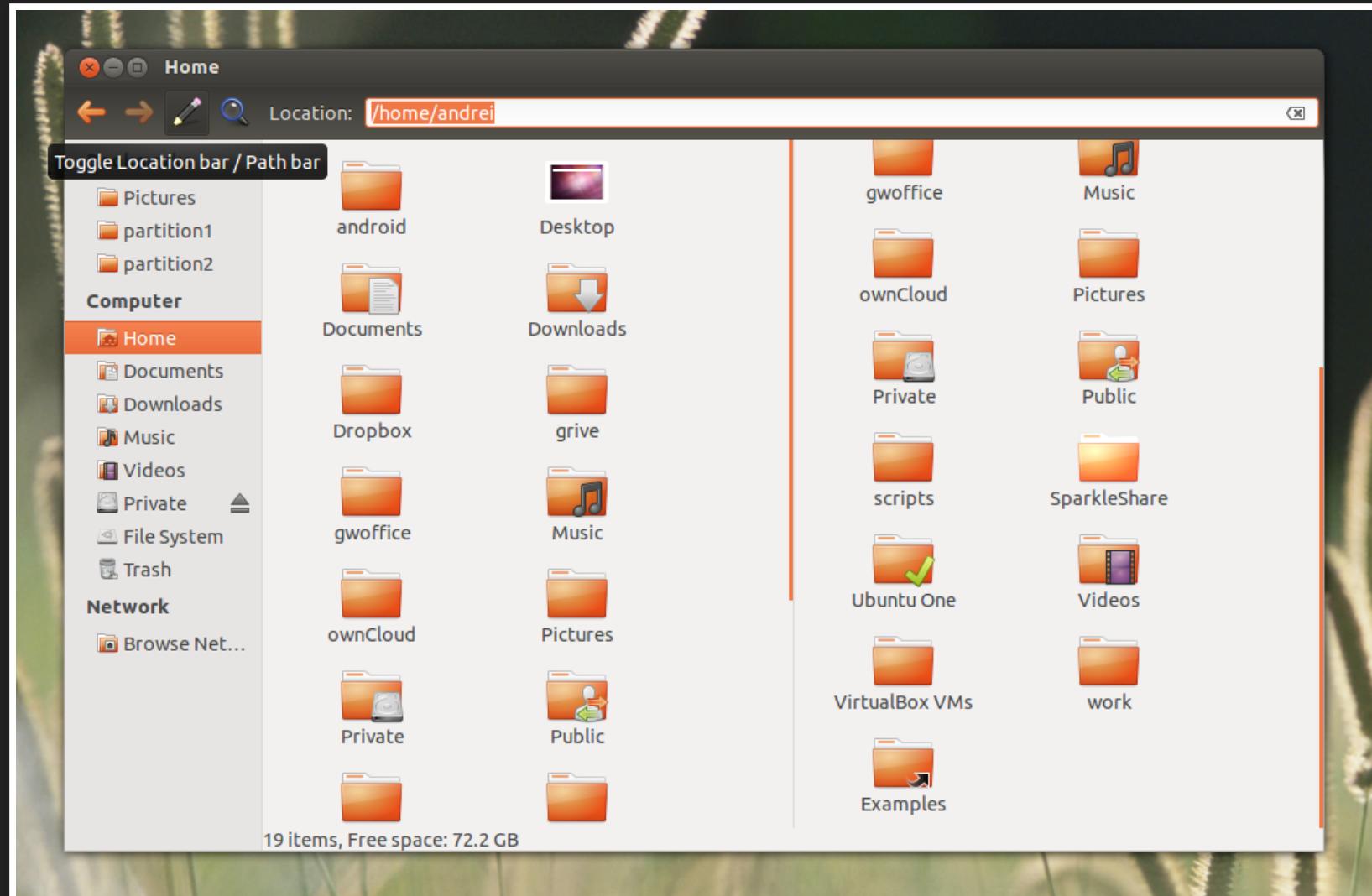
LibreOffice: Texte, Präsentationen, Excel, ...



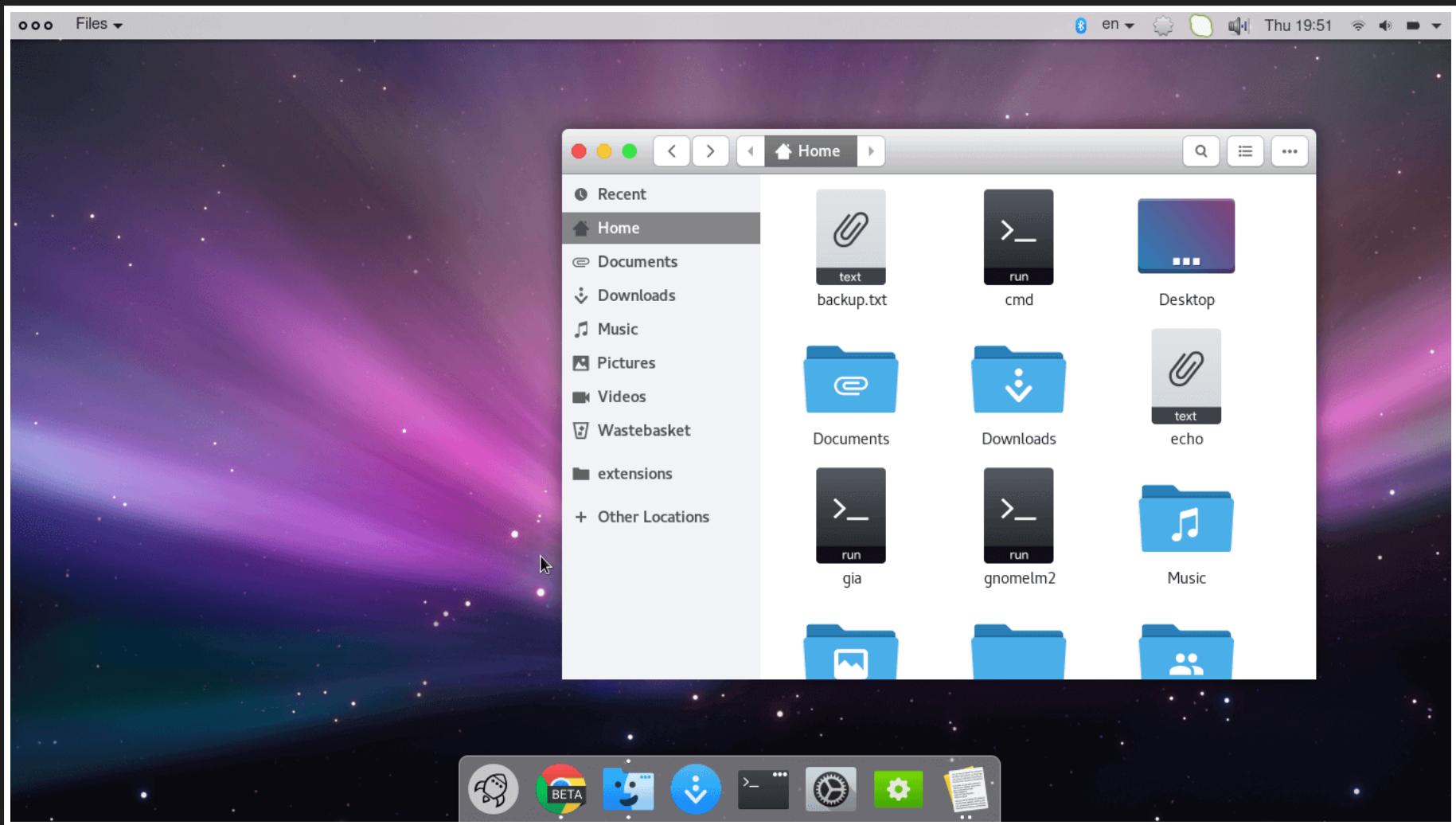
Dateimanager: Nautilus ... :D



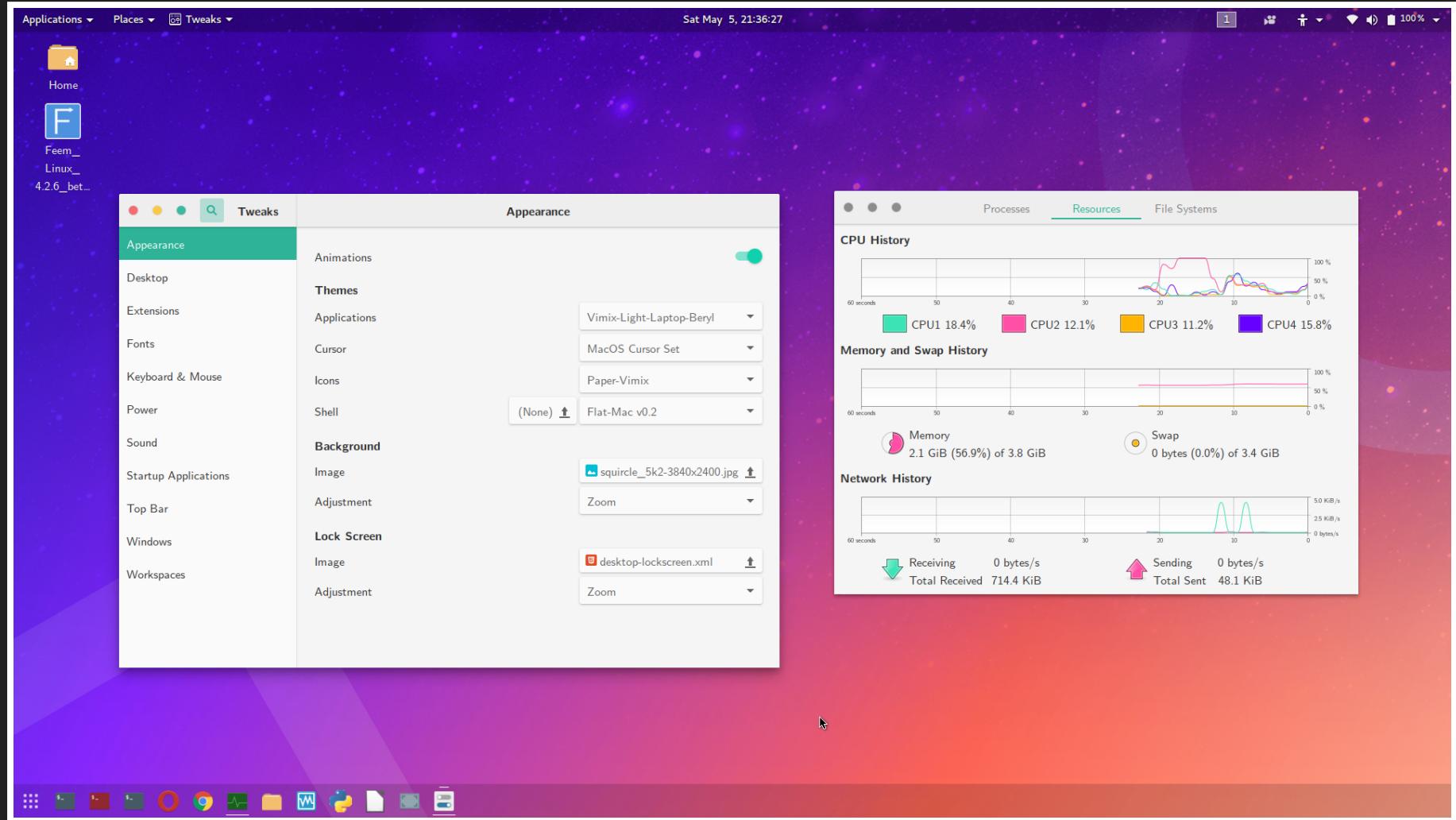
Dateimanager: Nautilus



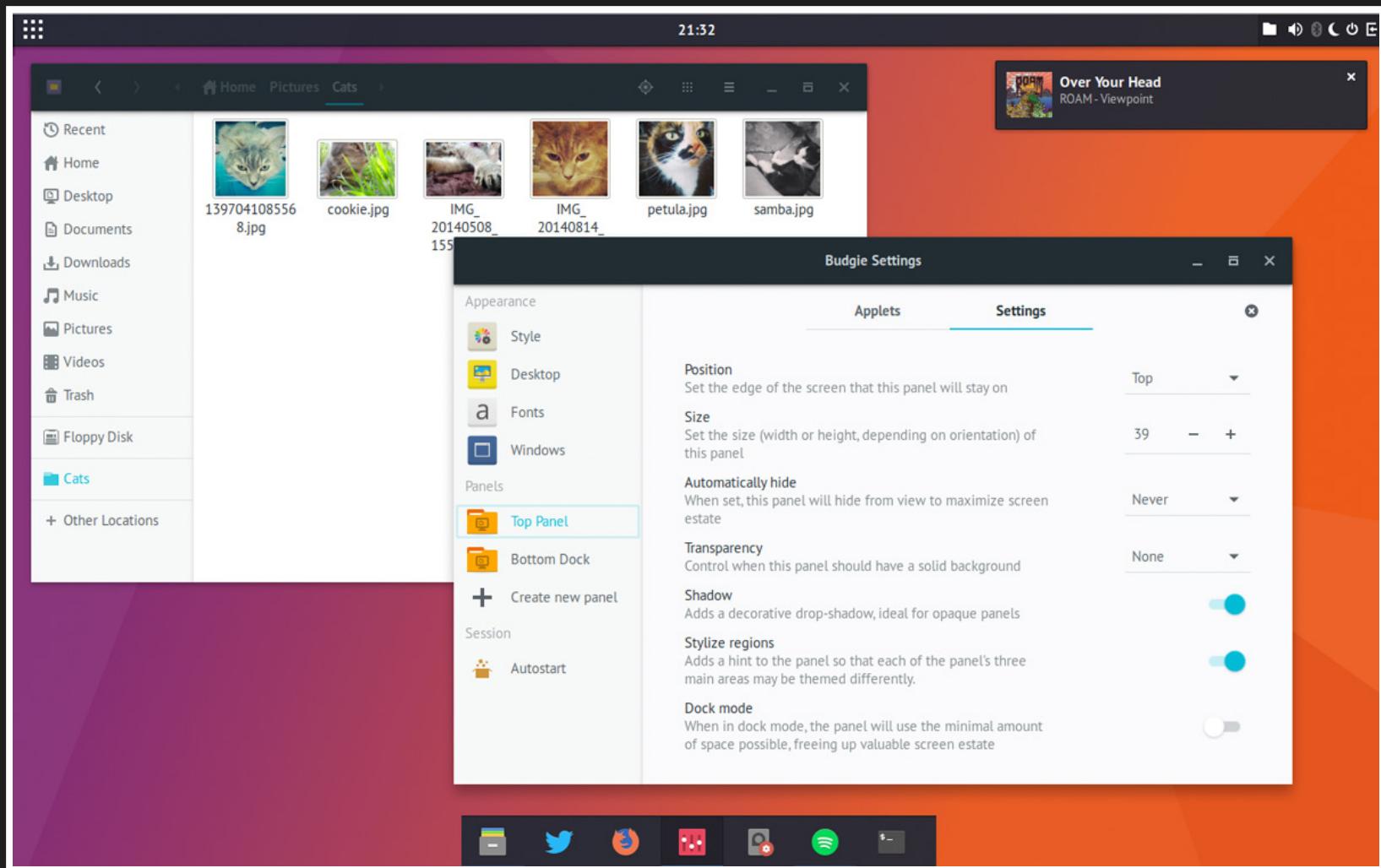
Impressionen (1/7)



Impressionen (2/7)



Impressionen (3/7)



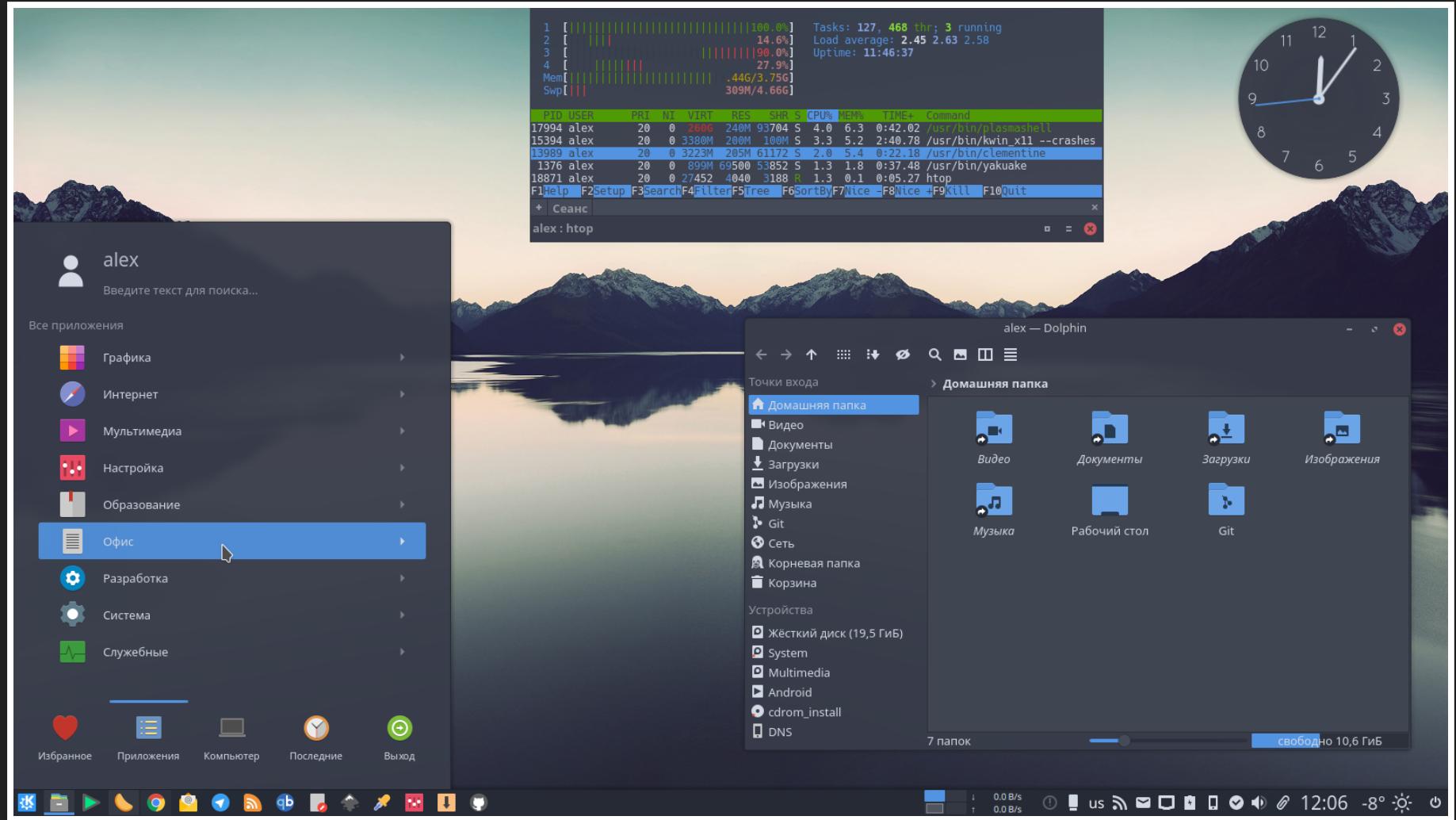
Impressionen (4/7)

Kundinner - unten

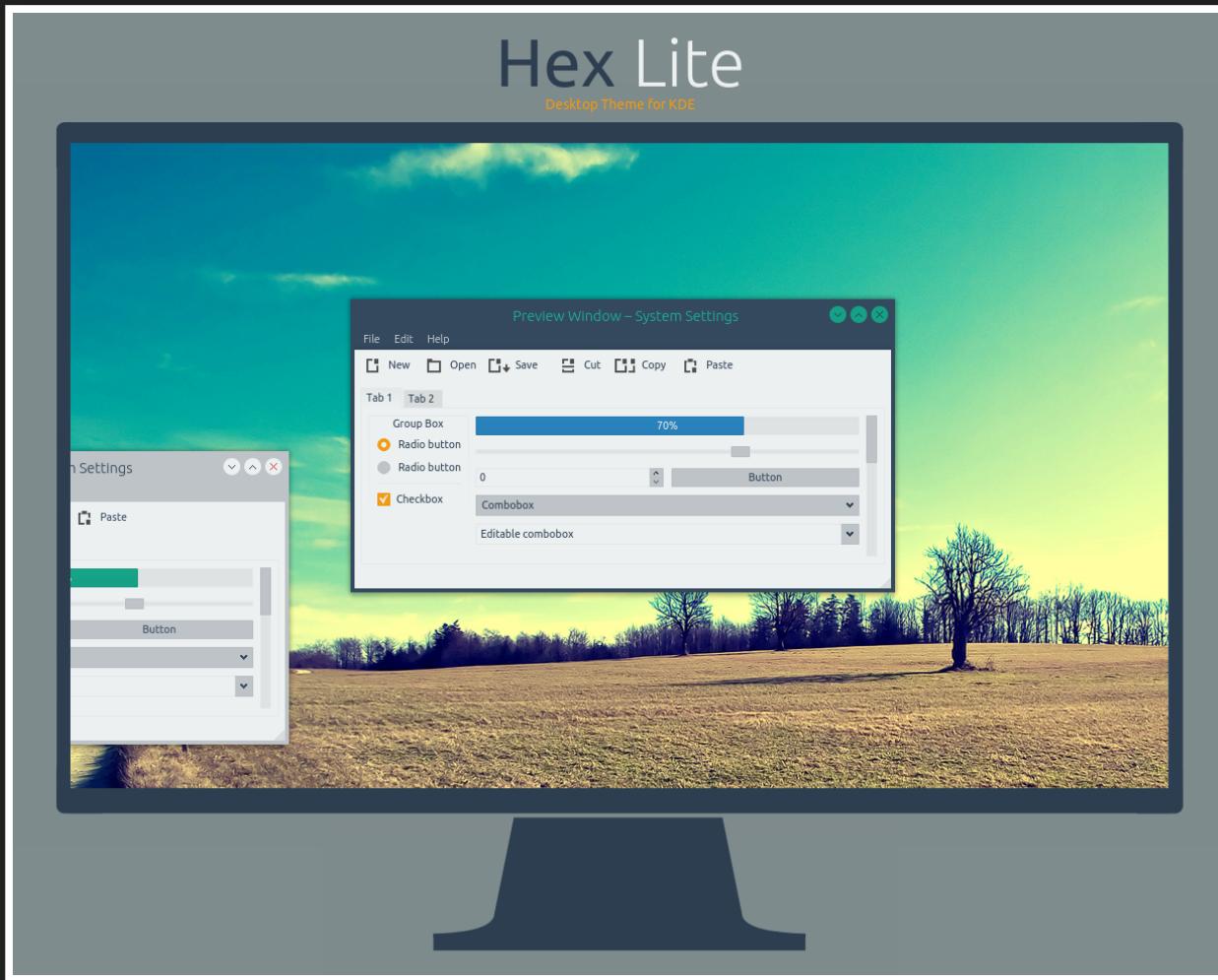
Artist	Title	Time
FISHER	Stop It	2:14
Dennis Cruz, Idris Elba, Patrick Topping	Patrick's Life - Patrick Topping Remix	6:13
Dennis Cruz, Harvey Valencia	Pardante - Dennis Cruz Remix	6:20
PAWSA	Anxious	6:28
Matt Sassari	Cops Mood	6:36
Matt Sassari	Phantom	6:40
Matt Sassari	Relax	6:25
Jamie Jones, Digitaltaria	Planets, Spaceships - Original Mix	6:50
David Herrero	Volvoreta	6:33
Aitor Vera	Tastilada	6:07
Kim	Part II	5:23
Josh Butler	Got a Feeling (Pleasurekraft vs. B	6:48
Matt Sassari	Port Cool	6:18
Matt Sassari	Primal Instinct	6:08
Dubspexx	Primary K293	7:59
Coyu, Carl Golden	Profound Pleasure (feat. Carl Gold	3:15
Coyu, Carl Golden	Profound Pleasure (feat. Carl Gold	7:07
Coyu, Carl Golden	Psycho Killer - Original Mix	5:16
The Cube Guys	Psycho Killer - Original Mix	5:11
Dale Howard, Sants	Pulsar - Sante Remix	5:43
Paul Kalkbrenner, Ron Costa	Rulse - Ron Costa Remix	6:39
Mark Atwell, Miguel De Reis	Run Up The Swag - M. Fukuda Remix	6:18
Matt Sassari	Saturday	6:89
Josh Taylor, Justin Jay, Jamie Jones	Fussy Pop - Jamie Jones Remix	6:30
Roam, Skidz	7 Days Edge Rmx	6:20
Matt Sassari	unter	7:28
Matt Sassari	Story Door	6:59
ANNA	Rebirth	7:37
Ruben Mandolini	Understand (Original Mix)	6:02
Miguel Bastida, Hatzler	Roundneck - Hatzler Remix	7:55
Natador, Felix Da Housecat, Ju	The Enemy - Julian Jewell Remix	5:36
Antender, Fur Coat	Understand (Original Mix) - Fur Coat Remix	6:01
Skunk Anansie	Satishat	7:08
Pleasurekraft	Satyr Song - Original Mix	7:00
Pleasurekraft	Satyr Song - Unek Remix	6:05
Ant	Sawyer - Original Mix	6:29
Raffaele Rizzi	Total Black	6:40
Rhythm & Sound	Free For All - Soundstream Remix W	5:47
Bonton	Utopians - Original Mix	6:32
Antender	Satellite	7:03
Kindinner	Shadow & Construction - Original M	5:57
Harvey Mackey	Shake	7:11
Bas Rose	Midnight People	5:28
Sam Charles	So I'm Gonna	6:48
Josh Butler	Snake Skin - Original	5:58
Josh Butler	Snake Skin	5:58
Loes & Jim, Matt Sassari	Snop Shit - Matt Sassari Remix	6:24
Benji Mandelton	Modern Love	6:39
Darius Syrossian, Josh Butler	Solar Wind	6:86
0 & Verde	Solstice - Original Mix	9:32
Ant Brikcs, Matt Sassari	Indigo	8:41
Ant Brikcs, Turnatrussa	Sorry I Am Late - Extended	8:10
Nollektiv Turnatrussa, Unortho	Sorry I Am Late - Unorthodox Remix	8:03
Nile Rodgers, Carl Cox	Ohh Baby - David Tort's Dub Tech M	7:32
Spaceman Sangutano	Space Man In Space	6:52
PAWSA	The Shapeafter - Original Mix	5:15
Ben Remember	Stand Out - Original Mix	6:38
Teenage Mutants	Barbes - Original Mix	5:58
Elli Brown	Surfside - Original Mix	6:49
Josh Butler	Tracks	6:13
Pirupa, Carlo Llo	Sunday Morning - Carlo Llo Remix	6:47
Dettler, Ossey Jones	Sugon - Original Mix	6:13

ON OFF 127.8.8.1 8 dB/s ↑ 8 dB/s ↑ 5x 3.77 GB 40°C 100% 100% 30x 19:37

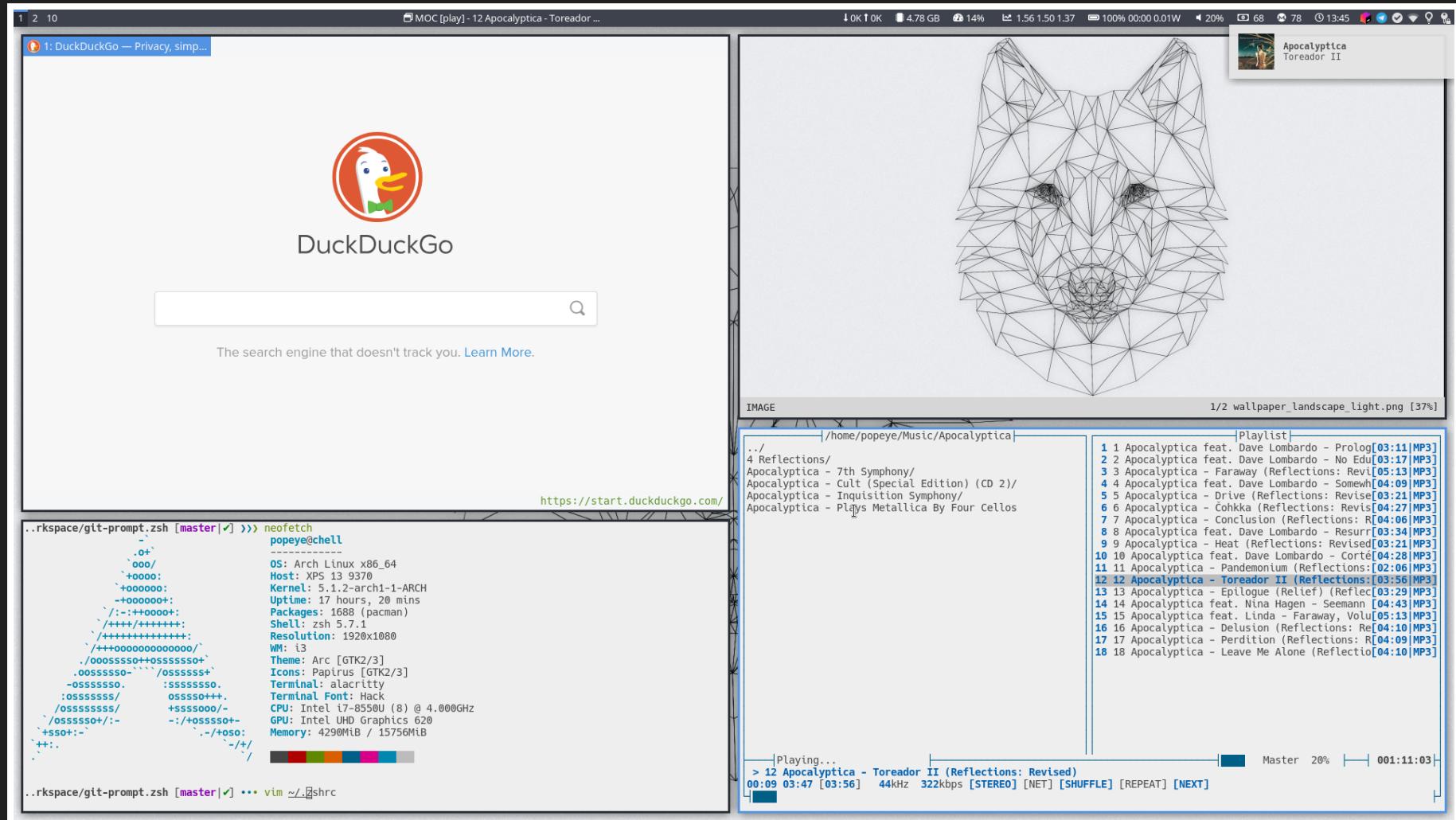
Impressionen (5/7)



Impressionen (6/7)



Impressionen (7/7)



Distribution: Ubuntu

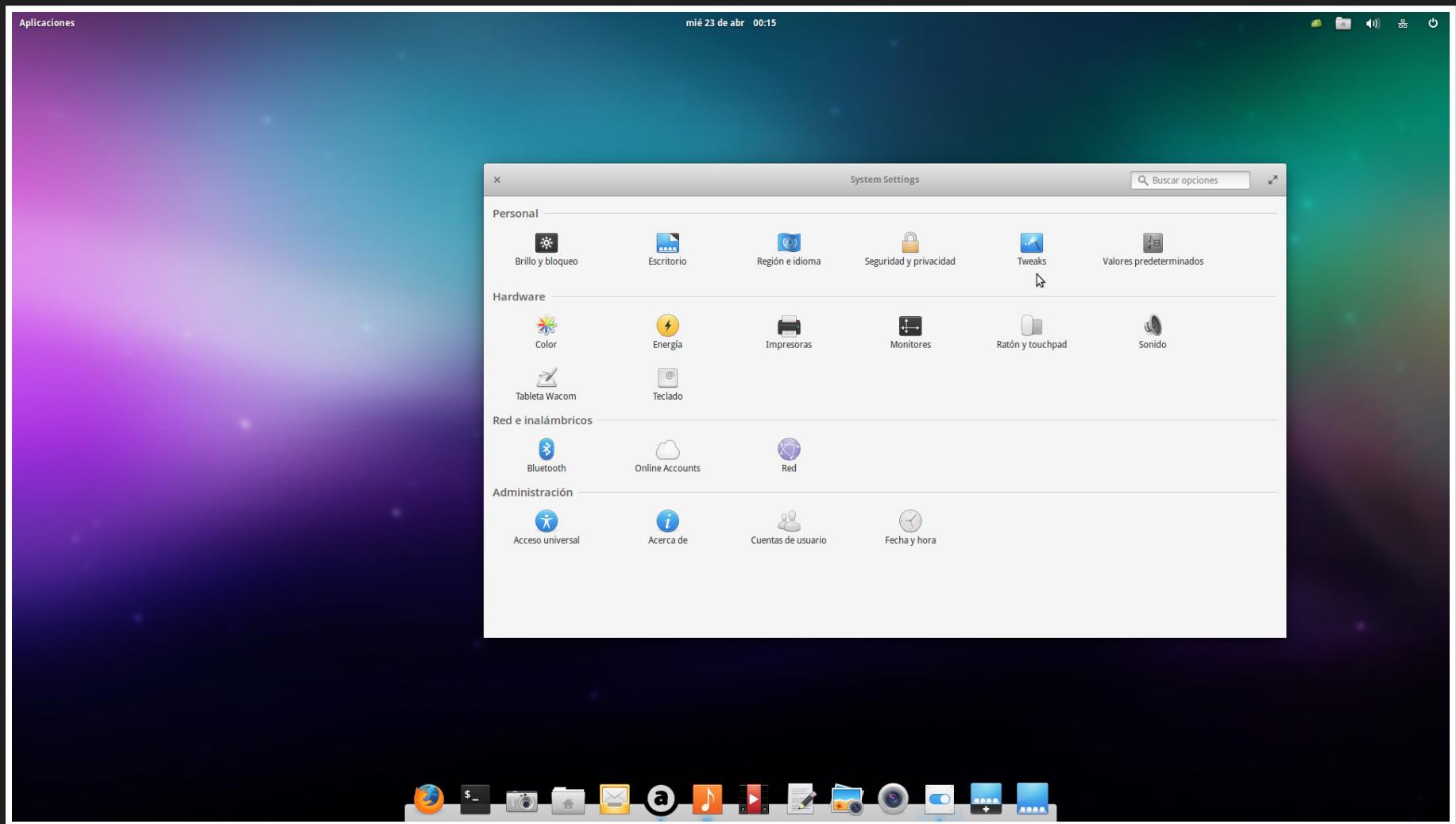
- weit verbreitet
- gutes deutsches Supportforum
- einfach zu installieren & zu bedienen
- keine aufwändige Wartung

Distribution: Ubuntu Studio

- für Grafiker, Musiker, Videobearbeiter, Vlogger, Künstler, ...

Distribution: elementary

(sieht aus wie: 



Distribution: Andere Distributionen

(für erfahrene Anwender)

- NixOS
- Arch
- Manjaro
- Debian
- Red Hat Enterprise
- Fedora
- Kali Linux

Welche Distro ist die richtige für mich?

<https://distrochooser.de/>

Probleme, die Linux lösen kann

- YouTube-Videos können direkt über das Terminal heruntergeladen werden
- Aktionen von “git” und “ssh” können zentral über das Terminal erfolgen
- Alle Programme werden über den Paketmanager verwaltet. Es muss nicht jedes Programm einzeln aktualisiert werden.
- Systemrettung via Live-USB-Stick
- Automatisierte Tasks

Grundlegende Befehle für das Terminal

- man (**manual**)
- cd (**change directory**)
- mv (**move**)
- rm (**remove**)
- cp (**copy**)
- zip (**zipper**)
- ssh (**secure shell**)
- wget (**web get**)
- cat (**concatenate**)
- nano
- apt-get
- git -> siehe weiterer Workshop

Live-Demo

Installparty: Ubuntu

Lizenz

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