

VCGS Technical Presentation - Linux

Linux - An Alternative PC Operating System

By

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What We Will Cover:

- What is Linux?
- Why Use Linux?
- Linux and Genealogy

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What is Linux?

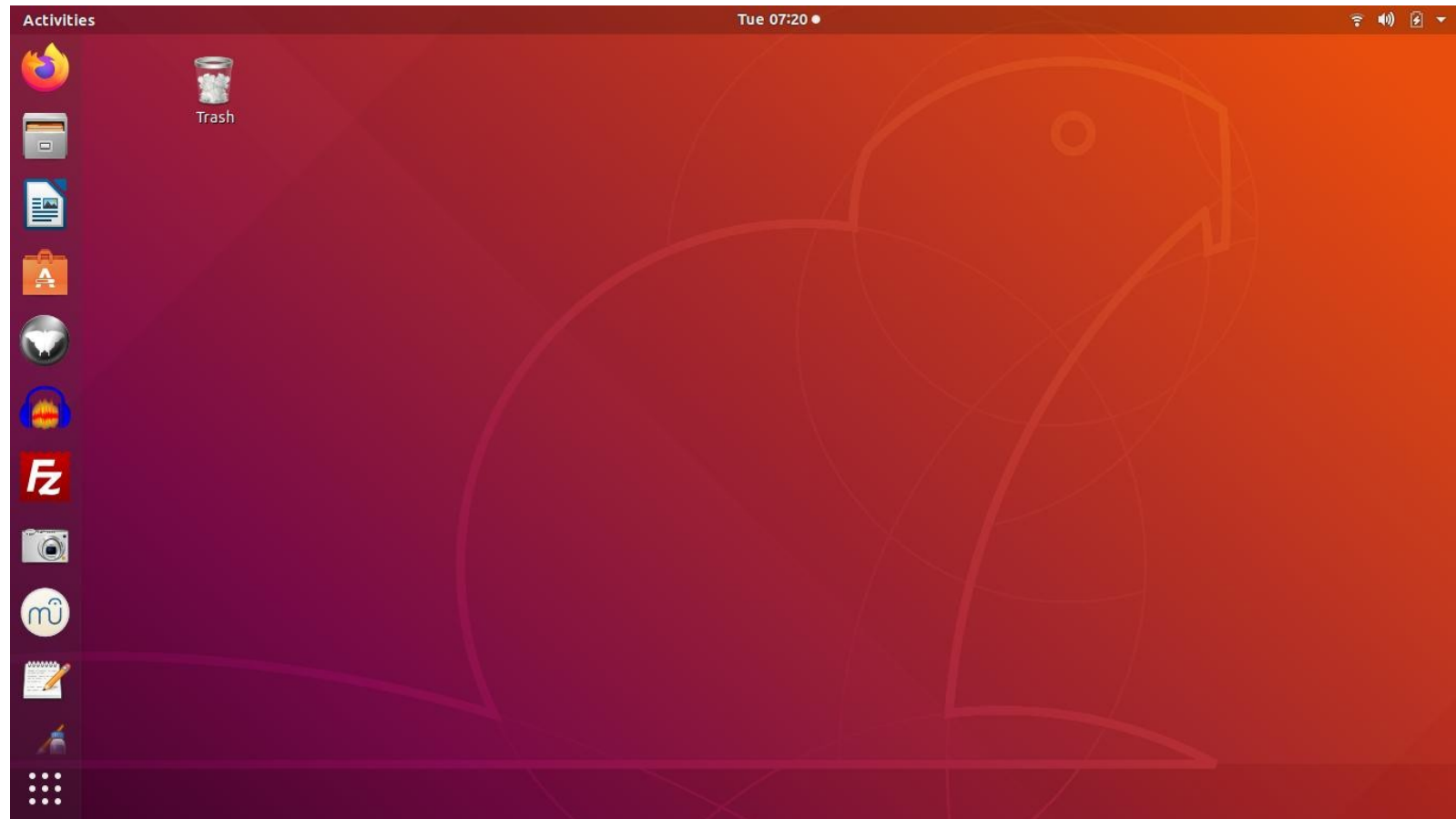
- **Alternative OS Created by Linus Torvalds in 1991**
- **Unix-Like Operating System for PCs**
- **Most Network Servers Run a Version of Linux**
- **Also for Embedded Systems and Cell Phones**

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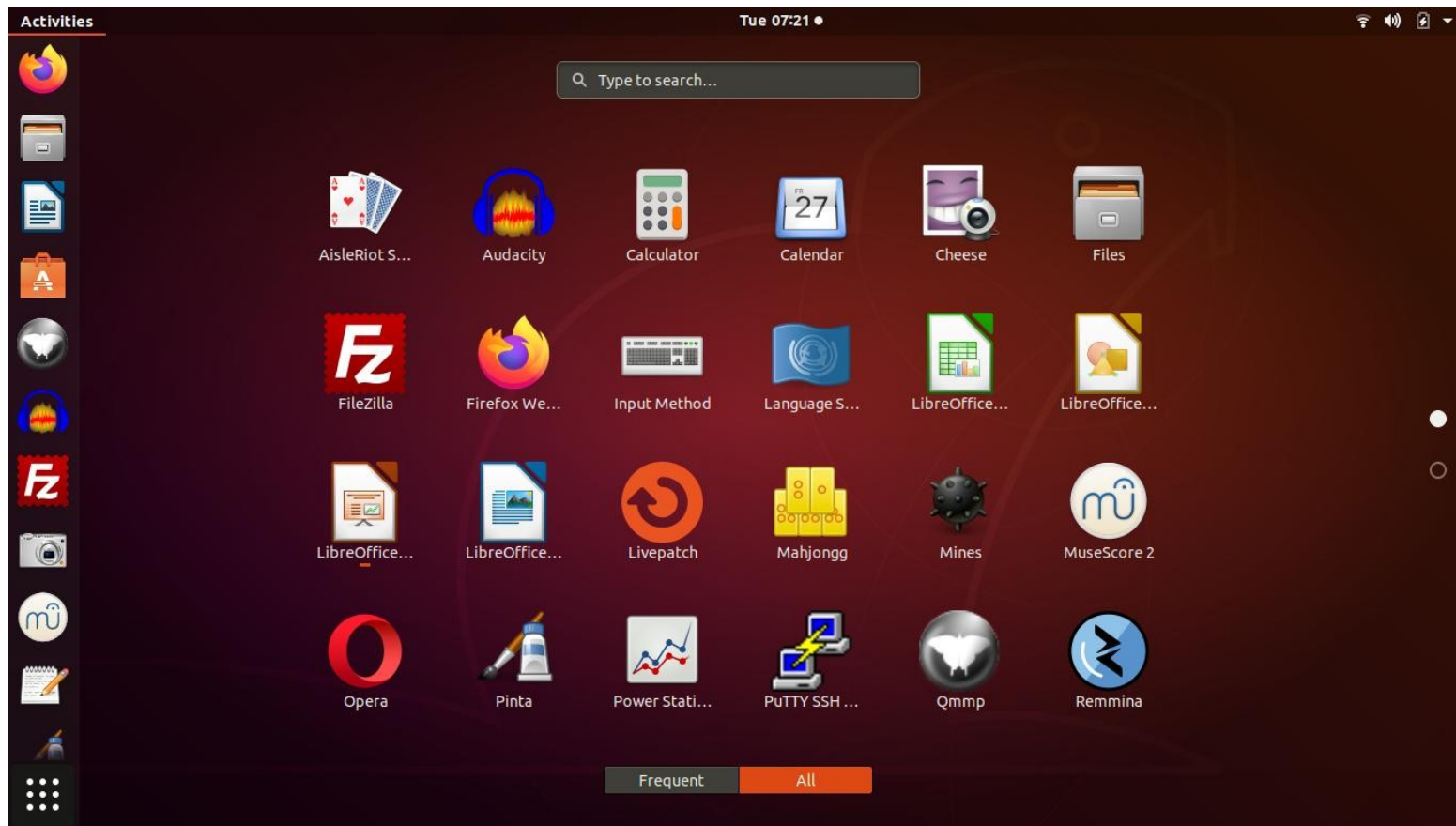
More About Linux...

- Open Source OS - *Free to Download!*
- Has Graphical User Interface like Windows, Mac
- Familiar Applications Are Included:
 - Word Processor, Spreadsheet, Text Editor, etc
 - Web Browser, File Manager
 - Many Other Programs and Utilities

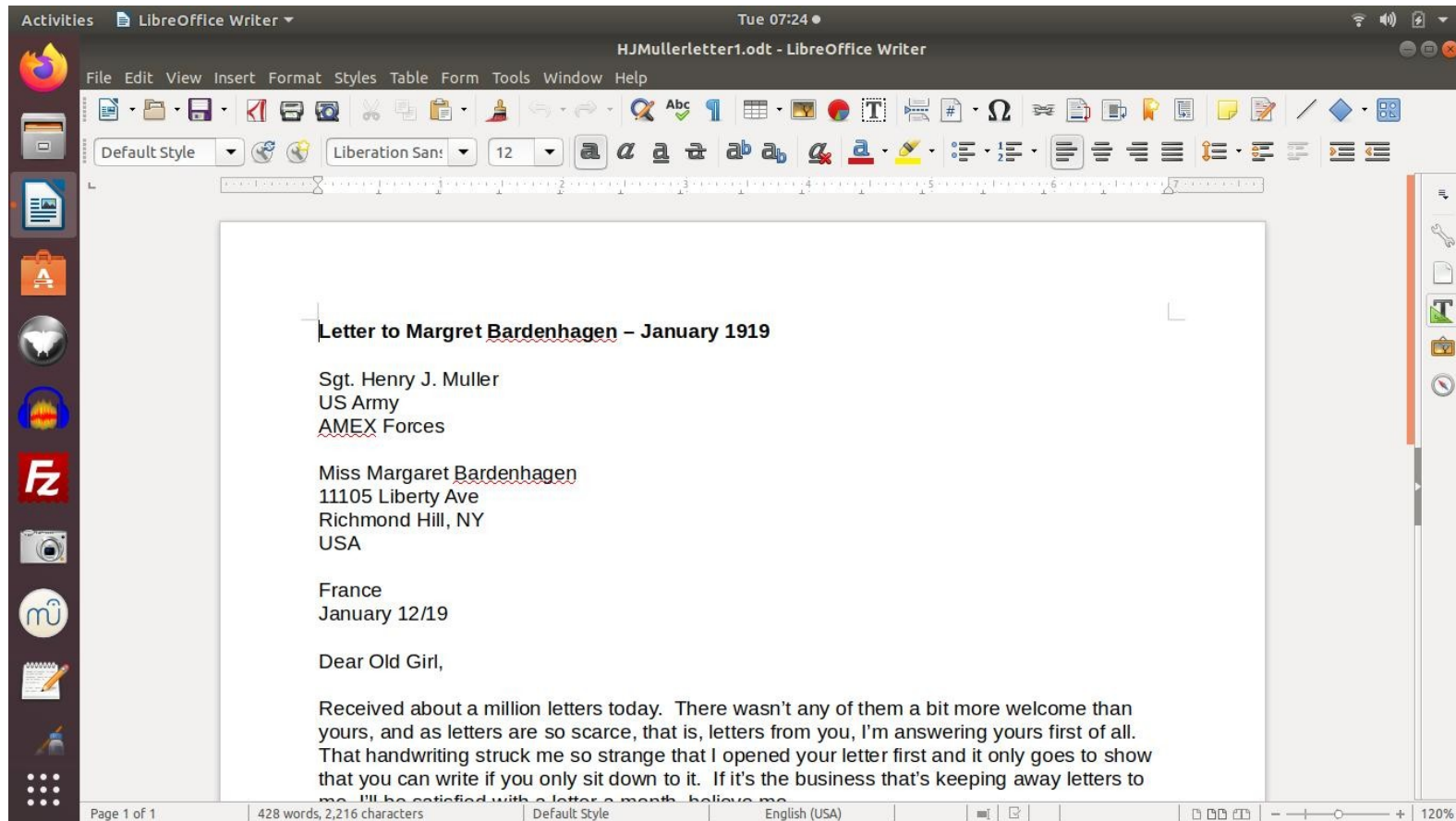
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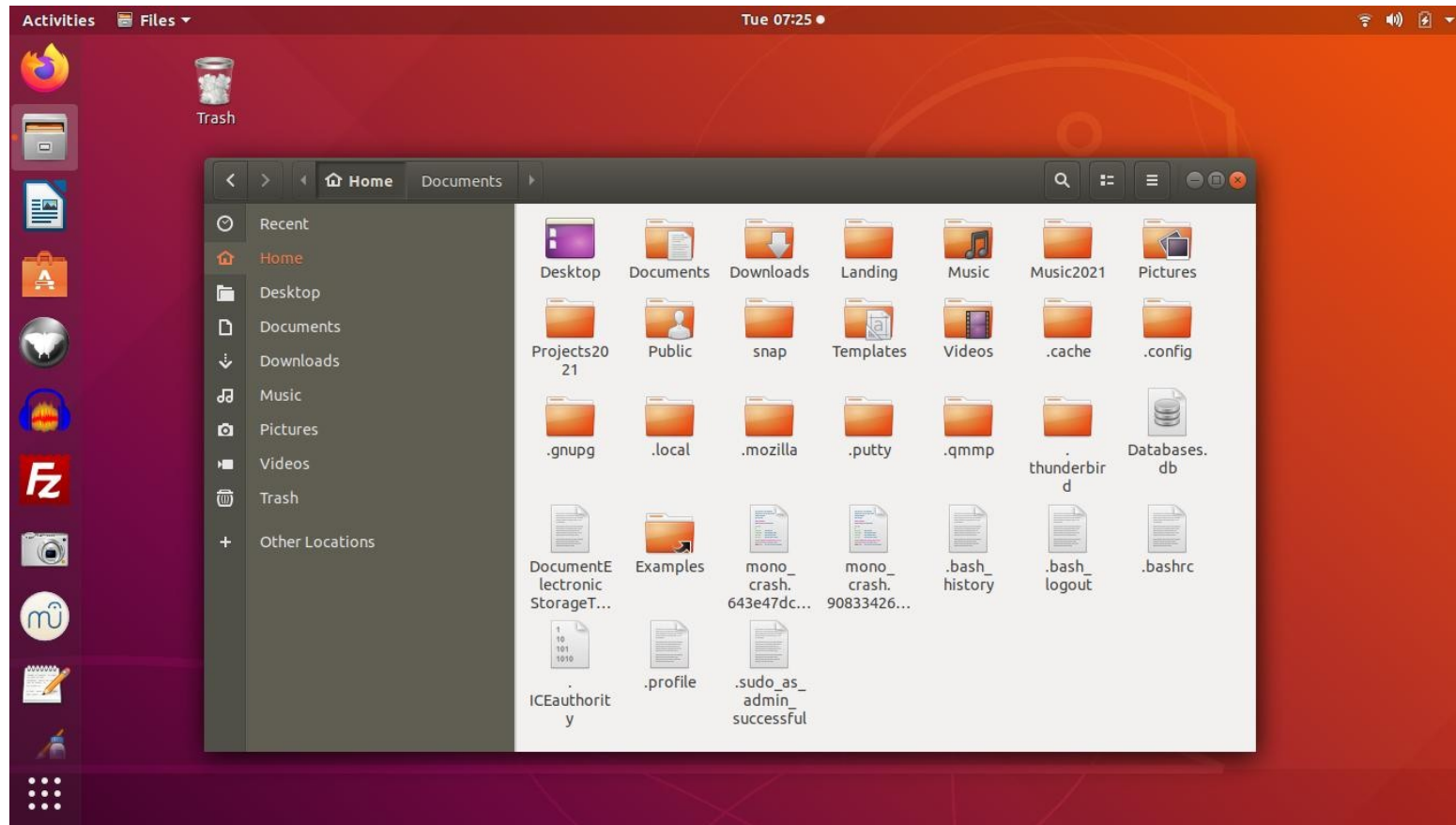
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PC Requirements – Ubuntu Linux

- **2 GHz dual core processor or better.**
- **4 GB system memory or more.**
- **25 GB of free hard drive space.**
- **Either a DVD drive or a USB port for the installer media.**
- **Network and Internet access**

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Why Linux?

- **Reliability and Redundancy**
- **Open Source vs Corporate OS**
- **Other Linux OS Advantages**

Linux Reliability

- **One Hard System Crash in 3 Years**
- **Restored System in 2 Hours**
 - **Re-installed Operating System**
 - **Downloaded All Open Source Apps**
 - **Reloaded Working Files From Backup**

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Redundancy

- **Identical Ubuntu Systems**
- **External 3 TB Hard Drive**
- **If One System Fails...**
- **Move Over to the Other**
- **Both PCs 10+ Years Old**



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Low Cost PC for Linux:

Small and Portable Mini PC

Pocket size,easy for travel. Maximully save your space.



MeLE Mini PC, Quieter2Q Windows 11 Pro Fanless Mini PC,Celeron J4125 8G 128G Small Desktop Computer Support Dual 4K Output,Dual WiFi,Gigabit Ethernet, BT4.2,Small Form Factor PC for Business/Industry

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Size: Celeron J4125 8G 128G

Celeron J4125 4G 64G

Celeron J4125 8G 128G

Celeron J4125 8G 256G

Celeron J4125 8G 512G

Celeron N5105 8G 128G

Celeron N5105 8G 256G

Celeron N5105 8G 512G

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Linux Operating System

- **Easy to Duplicate On Your Different PCs**
- **Backup OS Can be Stored on Thumb Drive**
- **Less Vulnerable to Malware Attack**
- **Less Likely to Incorporate Ads and Data Mining**
- **Less Upgrade Fatigue**

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Linux vs. Corporate Software

- **For Profit Software Depends on Selling Upgrades**
- **For Profit May Suspend Support for Your Data Files**
- **Open Source Software is Free, Installs Quickly**
- **No Access Keys or Dongles Needed**

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Other Linux Advantages

- **Salvage Older PCs**
- **Better Programming Options**
 - Perl, GCC Compiler, Python
- **Network Friendly**
 - File Transfer Servers
 - Apache Web Page Server, Telnet Server

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Some Linux Disadvantages

- **Learning Curve**
- **Some Hardware Limitations**
- **Apps are Limited for Videos, Graphics**

“Everything You Want - Nothing You Don’t Need”

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OK... But can it do Genealogy?

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Top 10 Genealogy Software Reviews – Linux?

- Family Tree Builder – No
- Roots Magic – No
- GenoPro – No
- Gramps – Yes! Open Source
- Ancestral Quest – No

Legacy Family Tree – No
Mac Family Tree – No
TNG – No
Family Tree Heritage – No
Family Historian - No

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The screenshot displays the Gramps software interface for managing family trees. The main window, titled "Family Tree 1 - Gramps", features a menu bar (Family Trees, Edit, View, Go, Bookmarks, Reports, Tools, Help) and a toolbar with various icons. A sidebar on the left provides navigation options: Dashboard, People, Relationships, Families, Charts (highlighted), Events, Places, Geography, Sources, Citations, Repositories, Media, and Notes.

The central area shows a family tree diagram. The root node is "Muller, Paul Henry" (*1950-08-07, +). A branch leads to "Muller, Richard Henry" (*1923-05-23, +2014-07-20), who is connected to "Muller, Henry John" (*1893-10-08, +1983-11-10). "Muller, Henry John" is further connected to "Muller, Hermann Diedri" (*1867, +1941-05-15) and "Bardenhagen, Adelheid" (*1867-02-03, +1930-06-06). "Muller, Richard Henry" is also connected to "Westermann, Madeline Marie" (*1896-09-08, +1981-08-30). "Westermann, Madeline Marie" is connected to two empty boxes. "Muller, Paul Henry" is connected to "Hunt, Frances Lydia" (*1950-08-07, +). A dashed line connects "Hunt, Frances Lydia" to an empty box.

On the right side, there is a "Gramplet Bar" with a dropdown arrow. Below it, a text box states: "Select the down arrow on the right corner for adding, removing or restoring gramplets." At the bottom, a "Category" dropdown is visible, and a status bar shows "[10000] Muller, Paul Henry".

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Genealogy Software Strategy

- **Migrate to Open Source:**
 - **For-Profit Software May Disappear**
 - **Clean up and Rebuild Your Genealogy Database**
 - **Increase Reliability with Different OS, Software**
 - **Lower Cost to Replace PC When Necessary**

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Questions?

Comments?

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Links for this Presentation:

- **Ubuntu:**
 - <https://ubuntu.com/>
 - <https://ubuntu.com/tutorials/try-ubuntu-before-you-install#1-getting-started>
- **Gramps Website:** <https://gramps-project.org/blog/>
- **Gramps Tutorial:** https://youtu.be/5XSMIfP-T_w