

APPS@UCU

# Linux course

Tools overview

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- In this presentation, we will overview some tools that are available on all Linux distributions
- All of them have a high barrier to entry as Linux itself, but when you are there - you won't imagine your life without that tools
- For example, it's not a one-day task to learn how to move around your system, but after few months of practice of working with CLI, GUI for you will be as slow as a turtle is slow in comparison with a rabbit



# Vi

- So let's start with the text editor
- You have heard about **vim**, haven't you?
- But let's start with **vi**
- Vi is a part of POSIX
- It's totally CLI editor (forget that you have a mouse)
- There are shortcuts for everything
- If there is no, you can create them for yourself
- Every good enough 21'st century editor has an extension for a **vi mode**
- But almost nobody uses it - only on some low memory and low powerful machines. So we move to Vim



# Vim

- **Vim** stands for 'Vi IMproved'
- According to Linux Journal survey, 38% (in average for 2009-2018) of respondents vote for Vim as the best editor
- It has much more features, than **vi**, including more commands, scriptable syntax highlighting and extensions, graphical interface (and a mous support, but don't use it)
- As **vi**, it has six modes - normal, visual, insert, command-line, select, and ex (yes, not only NORMAL and INSERT)
- Because of a huge community (38% of world's best geeks) **vim** became a powerful IDE with thousands of extensions (syntax highlight, autocompletion, spell checking, project tree etc)
- The most powerful tool of **vim** is inside - its shortcuts. You can make your work dozens of times faster without a touchpad and a mous

- Neovim is just a fork of Vim with some Python extensions
- And cool logo =)
- Also Neovim is a community-driven text editor, while Vim is a project of only one person - [Bram Moolenaar](#)
- One 'expert' on reddit wrote that:  
"Neovim exists to convince Bram to push new features to Vim"  
And I mostly agree with him.



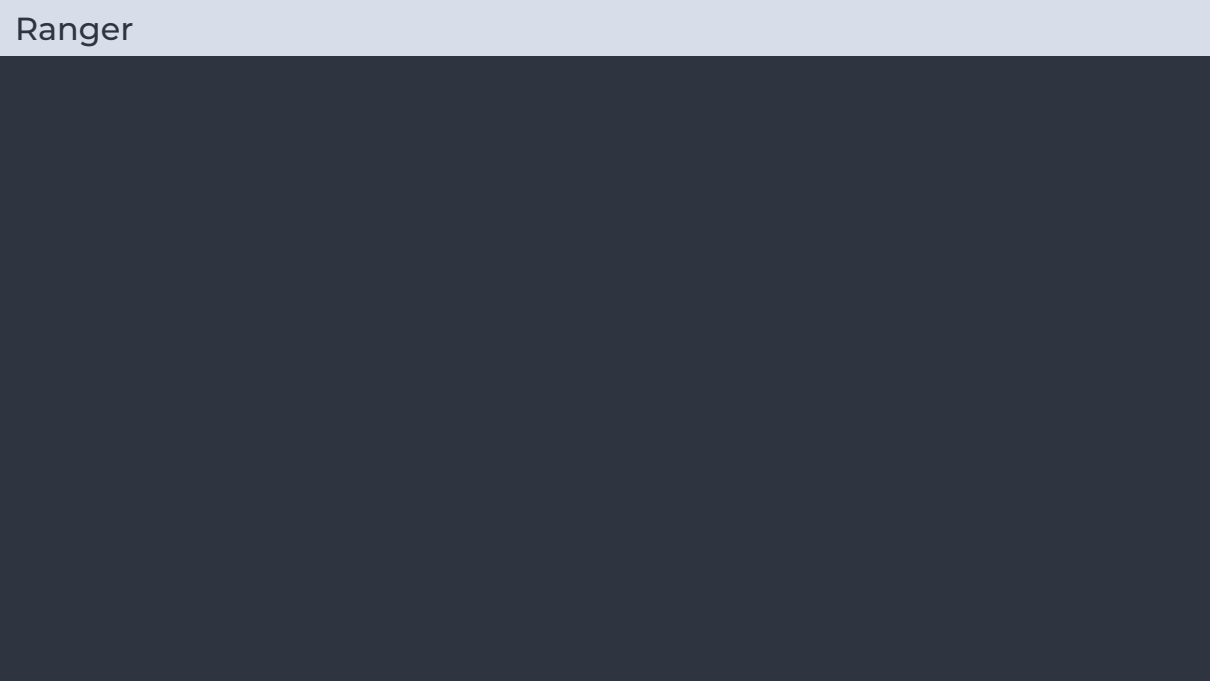


# Tmux

- **TMUX** stands for Terminal MULTipleXer
- There are some other (screen, Konsole, etc), but they are not so good as TMUX
- Why do we need it?
- As you continue your practice in CLI, you can notice that it's not enough to have only one terminal window
- With this much multitasking going on, we want to have more terminals. So people create a **terminal multiplexor**
- What TMUX can do?
  - Not only split and stack tab, but also make tabs
  - Continue running programs in background
  - With extensions you can write layout files in **.yaml** format
  - Search through terminal output and move around with Vim shortcuts
  - Other interesting stuff







Ranger

i3wm





# Package managers



# Package managers



# Sources

## Sources

- Linux journal
- Termianl Multiplexers
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