ISCB20.01 – Introduction to LINUX for Biologists

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Environment Setup

Section-1.2: Working

Ubuntu Interface Introduction

- Interface Tour
- Basic Customization
- Software Center

Terminal



System Update and Upgrade

- Update: sudo apt update
- Upgrade: sudo apt upgrade
- Update and Upgrade: sudo apt update && sudo apt upgrade
- \bullet Update and Upgrade: sudo apt update && sudo apt upgrade -y

Install ZSH

- Visit https://github.com/ohmyzsh/ohmyzsh/wiki/Installing-ZSH
- Installation Process
 - Update System: sudo apt update
 - Install ZSH: sudo apt install zsh
 - Check Version: zsh -version
 - Check Path: whereis zsh
 - Set as Default: sudo usermod -s /usr/bin/zsh \$(whoami)
 - $\bullet \ \, \textbf{Set Theme:} \ \, \text{nano} \ \, /.\mathsf{zshrc} \rightarrow \mathsf{ZSH_THEME} = "agnoster" \\$
 - Restart Your Computer: sudo reboot
 - Installing Powerline and Powerline Fonts for ZSH: sudo apt install powerline fonts-powerline

Install Terminator

Much of the behaviour of Terminator is based on GNOME Terminal, and we are adding more features from that as time goes by, but we also want to extend out in different directions with useful features for sysadmins and other users. If you have any suggestions, please file wishlist bugs! (https://gnometerminator.blogspot.com/p/introduction.html)

• Update: sudo apt update

• Update: sudo apt terminator

Install (.deb) Packages

- Gdebi lets you to install any deb packages without opening the Default software centre in Ubuntu.
- Install gdebi: sudo apt install gdebi
- Software Installation Steps using GDebi Package Installer
 - Step-1: Open with Other Application
 - $\bullet \;\; \textbf{Step-2:} \;\; \mathsf{Select} \to \mathsf{GDebi} \;\; \mathsf{Package} \;\; \mathsf{Installer}$
 - $\bullet \ \ \textbf{Step-:3} \ \ \text{Click} \rightarrow \textbf{Install Package}$
 - Step-:4 Give Your Password
 - Step-:5 Close

Download and Install Google Chrome

- Download Chrome for Linux: https://www.google.com/chrome/
- Install Chrome
 - Step-1: Open with Other Application
 - $\bullet \;\; \textbf{Step-2:} \;\; \mathsf{Select} \to \mathsf{GDebi} \;\; \mathsf{Package} \;\; \mathsf{Installer}$
 - Step-:3 Click \rightarrow Install Package
 - Step-:4 Give Your Password
 - **Step-:5** Close

Download and Install Slack

- Download Slack for Linux: https://slack.com/intl/en-bd/downloads/linux
- Install Slack
 - Step-1: Open with Other Application
 - $\bullet \;\; \textbf{Step-2:} \;\; \mathsf{Select} \to \mathsf{GDebi} \;\; \mathsf{Package} \;\; \mathsf{Installer}$
 - $\bullet \ \ \textbf{Step-:3} \ \ \mathsf{Click} \, \to \, \mathsf{Install} \ \, \mathsf{Package}$
 - Step-:4 Give Your Password
 - Step-:5 Close

Download and Install Anaconda Python Distribution

Download-

https://repo.anaconda.com/archive/Anaconda3-2020.11-Linux-x86_64.sh

• Installation: sh Anaconda3-2020.11-linux-x86_64.sh

• Activate: source /.zshrc

• Launch Jupyter: anaconda-navigator

Install R

- CRAN Website-https://cran.r-project.org/bin/linux/ubuntu/README.html
- Installation: sudo deb https://cloud.r-project.org/bin/linux/ubuntu focal-cran40/
- To install the complete R system
 - sudo apt update
 - sudo apt-get install r-base
 - sudo apt-get install r-base-dev

RStudio

- Download—https://rstudio.com/products/rstudio/download/
 - Step-1: Open with Other Application
 - $\bullet \ \ \textbf{Step-2:} \ \, \mathsf{Select} \to \mathsf{GDebi} \,\, \mathsf{Package} \,\, \mathsf{Installer}$
 - $\bullet \ \ \textbf{Step-:3} \ \ \mathsf{Click} \to \mathsf{Install} \ \ \mathsf{Package}$
 - Step-:4 Give Your Password
 - Step-:5 Close

Text Editor-VSCode

- Download-https://code.visualstudio.com/download
 - Step-1: Open with Other Application
 - **Step-2**: Select → GDebi Package Installer
 - $\bullet \ \ \textbf{Step-:3} \ \ \mathsf{Click} \to \mathsf{Install} \ \ \mathsf{Package}$
 - Step-:4 Give Your Password
 - Step-:5 Close

Install LATEX

- Install: sudo apt install texlive-latex-extra
- Install Publishers: sudo apt install texlive-publishers

LATEX Editor—TeXStudio

• Step-1: Open Ubuntu Software Center

• Step-2: Search TeXStudio

• Step-3: Click Install

• **Step-4:** Give Your Password

Download and Install Mendeley

• Download Mendeley for Linux :

https://www.mendeley.com/download-desktop-new/

- Install Slack
 - Step-1: Open with Other Application
 - **Step-2**: Select → GDebi Package Installer
 - $\bullet \ \ \textbf{Step-:3} \ \ \mathsf{Click} \, \to \, \mathsf{Install} \ \, \mathsf{Package}$
 - **Step-:4** Give Your Password
 - **Step-:5** Close

Thank You