All that begins ...

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Introduction to Linux GUI via Ubuntu MATE 16.04 LTS



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Outline

Introduction

- Linux and MATE
- MATE: What in a name?

Participation Provide A Contract Con

Logging in

MATE Applications

- New names for common apps
- Microsoft Windows equivalents

O Ubuntu MATE Desktop

- After login
- Applications menu
- Places menu
- System menu

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Introduction Linux and MATE

- Linux is an Open Source UNIX-like operating system. It consists of the Linux kernel, its utilities and a huge number of applications.
- There are various distributions of Linux which differ in the way these elements are packaged and presented.
- In our Open Source Computer-Aided Engineering Inititive (OSCAE.Initiative) Laboratories, we installed Ubuntu MATE 16.04 LTS.
- The graphical desktop in this distribution of Linux is called MATE, which is derived from (the now unmaintained) GNOME 2, a user-friendly interface for Linux.

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Introduction MATE: What in a name?

• The name "MATE" comes from yerba maté, a species of holly native to subtropical South America. Its leaves contain caffeine and are used to make infusions and a beverage called mate. The name is pronounced like Mah-tay, not like Mait.





Figure 1: Yerba maté.

The Linux Workstations

- OSCAE.Indiantive at UTM has 45 Linux Graphical Workstations: 20 at UTM, Kuala Lumpur (in Postgraduate Computer Lab, Razak Tower), 10 in Computer Lab at the Marine Technology Centre and 15 in C24-407, the last two labs at UTM, Skudai.
- They are linked through the Campus network. User will login to **theuser** account and get connected to **theuser**'s home folder on whichever workstation he/she uses.



Figure 2: Login screen

- MATE provides an attractive, intuitive, easy-to-use and configurable desktop environment.
- MATE largely consists of GNOME 2 applications, utilities and applets, which have been forked and renamed to avoid conflicts with their GNOME 3 counterparts.
 - Alacarte is renamed Mozo;
 - Nautilus is renamed Caja;
 - Metacity is renamed Marco;
 - Gedit is renamed Pluma;
 - Eye of GNOME is renamed Eye of MATE;
 - Evince is renamed Atril;
 - File Roller is renamed Engrampa.

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• Table 1 is a small list of Linux programs (on the right) that replaces their Microsoft Windows equivalent.

MS Windows Software Title	Linux Software Replacement	
File Explorer	Caja	
Photos	Eye of MATE Image Viewer	
MS Paint	Pinta	
Notepad	Pluma	
WordPad	LibreOffice Writer	
Calculator	Galculator	
Windows Media Player	VLC Media Player	
Adobe PDF Viewer	Atril Document Viewer	
Adobe Acrobat Professional	Master PDF Editor 4	

Table 1: Linux's equivalents to common Windows applications

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Ubuntu MATE Desktop After login

• When you first login, the desktop contains the Top Edge Panel and a background containing a link to the your home directory file browser. The Top Edge Panel has a calendar and a network monitor to the right, and at the left is the MATE Menu.



Figure 3: Ubuntu MATE desktop screen after login.

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Applications menu

- Applications menu
- The MATE Menu in the top edge panel is where you find and launch applications.
- Move your mouse pointer over the word Applications and click the left mouse button to open the menu panel.
- As you click on Applications, a list of categories for all the installed applications appear. CAE Tools, and TeX & Friends are specially customized categories for OSCAE_Initiative's Linux workstations.



Figure 4: Applications menu.

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Applications > CAE Tools

- Applications ▷ CAE Tools was customized to highlight OSCAE tools.
- It collects and subcategorizes CAE tools further into
 - CAD
 - Ocal Preprocessors
 - 3 CAE Solvers
 - CAE xPostprocessors
- Open source scientific tools include GNU Octave, Scilab, FreeMat and Maxima whilst the commercial ones are Matlab and Maple.
- Other data analysis tools include SciDAVis, QtiPlot, g3data and Datacapture.
- GNU PSPP and R provide tools for statistical analysis.



Figure 5: Applications \triangleright CAE Tools.

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Applications \triangleright CAE Tools \triangleright CAD

- Applications ▷ CAE Tools ▷ CAD
- Open Source CAD tools
 - ► FreeCAD
 - ► QCAD
 - LibreCAD
 - ► gCAD3D
 - 3-D rendering, movie-making tools
 - Blender
 - Luxrender
- Commercial CAD tool(s)
 - VariCAD



Figure 6: Applications \triangleright CAE Tools \triangleright CAD.

Ubuntu MATE Desktop Applications > CAE Tools > CAE Prep

- Applications > CAE Tools > CAE Prep
- Open Source CAE preprocessing tools
 - Salome
 - ► gmsh
 - ElmerFront
 - NetGen
 - MeshLab
- Commercial CAE preprocessing tool
 - Pointwise



Figure 7: Applications \triangleright CAE Tools \triangleright CAE Prep.

Applications \triangleright CAE Tools \triangleright CAE Solvers

- Applications ▷ CAE Tools ▷ CAE Solvers
- Open Source CAE solvers
 - EDF Salome-MECA
 - z88 Aurora
 - CalculiX
 - OpenFOAM
 - EDF Code_Saturne
- Commercial CAE solvers
 - Ansys
 - Abaqus
 - CD-Adapco Star-CCM+
 - COMSOL Multiphysics



Figure 8: Applications \triangleright CAE Tools \triangleright CAE Solvers.

Applications \triangleright CAE Tools \triangleright CAE xPost

- Applications ▷ CAE Tools ▷ CAE xPost
- Open Source CAE postprocessing tools
 - 3D Slicer
 - ElmerPost
 - ParaView
 - Salome
 - VisIt
- Commercial CAE postprocessing tools
 - EnSight
 - Tecplot 360EX
 - Tecplot Chorus
 - Tecplot Focus
 - Tecplot RS



Figure 9: Applications \triangleright CAE Tools \triangleright CAE xPost.

Ubuntu MATE Desktop Break for CAE Demo



Ubuntu MATE Desktop Applications > TeX & Friends

- Applications > TeX & Friends is another customized category special to OSCAE.Initiative's Linux workstations.
- It collects ETEX-based tysetting tools and utilities commonly used by many scientists and engineers to prepare technical documents, e.g. Integrated Development Environments (IDE):
 - TeXworks
 - Texmaker
 - TeXstudio
 - Kile and LyX

tools to manage bibliography and references

- JabRef
- KBibTeX

and editor

Winefish LaTeX Editor



Figure 10: Applications \triangleright TeX & Friends.

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Applications ▷ Programming

- Applications ▷ Programming category is of major importance to scientists and engineers.
- On top of the standard offerings many additional tools, e.g. Integrated Development Environments (IDE):
 - Arduino IDE
 - CMake
 - Code::Blocks IDE
 - CodeLite
 - Eclipse

text editors:

- Geany and jEdit
- Bluefish Editor and Winefish LaTeX Editor
- SciTE Text Editor

files comparator

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have been added to this category.



Figure 11: Applications ▷ Programming.

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Ubuntu MATE Desktop Applications ▷ Office

- Applications ▷ Office
- LibreOffice is the backbone to an integrated office suite providing wordprocessing, spreadsheet, presentation and drawing tools through
 - LibreOffice Writer,
 - LibreOffice Calc,
 - LibreOffice Impress,
 - LibreOffice Draw,
- PDF tools
 - Atril and Evince PDF Document Viewers
 - Master PDF Editor
- Project management tool
 - GanttProject



Figure 12: Applications \triangleright Office.

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Applications \triangleright Sound & Video

● Applications ▷ Sound & Video

- Video tools
 - Kodi
 - mpv, MPlayer, SMPlayer, GNOME MPlayer,
 - VLC media player
 - xine
- HandBrake and MKVToolNix are tools for processing digital video files
- Audio tools
 - Alsaplayer
 - Amarok
 - Audacity
 - GNOME Alsa Mixer
 - Rhythmbox
- CD and DVD tools include K3B, AcetoneISO, Brasero, ISO Master



Figure 13: Applications \triangleright Sound & Video.

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Places menu

- Places menu is also at the top left of the Menu panel.
- This menu lets you browse files in Home Folder, Figure 15, on the local Computer, Figure 16, and on the Network, Figure 17.



Figure 14: Places menu.

Places ⊳ Home Folder



Figure 15: Places \triangleright Home Folder.

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Places ⊳ Computer



Figure 16: Places \triangleright Computer.

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Ubuntu MATE Desktop Places ⊳ Network



Figure 17: Places \triangleright Network.

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System menu

- System menu
- From the System Menu you can start various Administration jobs e.g. update and install new software-see Figure 19.
- ... set Preferences to customise desktop, Figure 20.
- There are also options to
 - start the Control Center, Figure 21,
 - lock the screen,
 - log out or
 - shut down the workstation.

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theuser's Home	Welcome	
	🗱 Control Center	
	🙄 Help	
	About MATE	
	Unck Screen	
	Log Out theuser	
	Shut Down	00000000
000000000000000000000000000000000000000		

Figure 18: System menu.

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System \triangleright Administration



Figure 19: System ▷ Administration.

abu.hasan.abdullah 🐵 🖲 🕲 2019

Introduction to Linux

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Ubuntu MATE Desktop System ⊳ Preferences



Figure 20: System \triangleright Preferences.

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Ubuntu MATE Desktop System ⊳ Control Center



Figure 21: System \triangleright Control Center.

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... must end

• ... and I end my presentation with two supplications

رَّبِّ زِدْنِي عِلْبًا

my Lord! increase me in knowledge

(TAA-HAA (20):114)

ٱللهُمراناًنسْئَلْكَ عِلْمًانَافِعًا

O Allah! We ask You for knowledge that is of benefit

(IBN MAJAH)

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