



# Basics of linux based operating systems

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# Few instructions cum advise



- Ask questions
  - Asking questions is THE way to learn
- Let this be an interactive session
- You can leave the class anytime
- You can even sleep if you want
- Its not like am teaching you something, we all are learning collaboratively, so don't hesitate to correct me or suggest something.

# AGENDA FOR THE SESSION



- Some interesting softwares
  - How to install a new application?
  - Comparison with windows softwares
- Some useful commands
  - Basics of terminal
  - Basic commands
  - Demo of an opensource software
- VIM – a text editor
  - Basic commands
  - Some interesting and very useful commands

# How to install softwares?



- Apt-get tool (Advanced packaging tool)
- Ubuntu software center

# Some interesting softwares



- MS office Vs Libreoffice / Openoffice
- Photoshop Vs Gimp
- MS paint Vs Mypaint/GNU paint
- Notepad/wordpad/notepad++ Vs vim/emacs/gedit
- Gtypist, wine, virtualbox, eclipse, netbeans
- Games, file sharing applications etc.



Lets play a small game.. :)

# Basics of terminal



- New terminal : Ctrl + Alt + t
- New tab : Ctrl + Shift + t
- Close terminal : Ctrl + d / exit
- Zoom in : Ctrl + Shift + "+"
- Zoom out : Ctrl + "-"

# Some basic commands



- Pwd
- Ls
- Cat
- Cd
- Mkdir
- Rmdir
- Rm
- Cal
- Time
- Man
- Date
- Mv
- Cp
- Fortune
- File
- Alias
- Sl
- Mysl



# VIM – A text editor



- Advantages of using vim
  - Faster coding
  - Least use of mouse
  - Portable
- Vim has many modes, lets see two of them :
  - Insert mode (i)
  - Command mode (esc)

# USEFUL VIM COMMANDS



- Vim filename      To open a file
- :q      To close a file
- :w <filename>      To save/ save as
- dd      To delete a line
- x      To delete a character
- yy      To copy(yank) a line
- p      To paste data
- :%s/source/dest      To Replace source with dest
- :<line\_num>      To jump to particular line
- m<char>      To mark current line

# USEFUL VIM COMMANDS



- `u` To Undo changes
- `Ctrl + R` To Redo Changes
- `:set autoindent` To set auto-indentation
- `:set number` To show line numbers
- `/<pattern>` To search for particular pattern
- `:set hlsearch` Highlight all the matched patterns
- `:set incsearch` Highlighting search while typing
- `!:<command>` To execute Terminal Command
- `r<char>` To replace character with <char>

# Some interesting and very useful commands



- Indentation
  - =
  - Ctrl + t and Ctrl + d
  - Shift + >> and Shift + <<
- Opening multiple files
  - -p, :tabedit
  - -o, -O, Ctrl + w Ctrl + w, :sp, :vsp
- Man pages
  - Shift + k
- Open a file
  - gf

# Some interesting and very useful commands



- Terminal commands
  - `:!<command>`
  - `:r!<command>`
- Spell check
  - `:set spell`
  - `:set nospell`
- Macros
- Vim plugins
  - Cvim, DrawIt, cscope, CCTree, taglist, mru.vim

# Feel free to contact me



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**If you want this presentation :**

**[https://github.com/mehtasankets/ms\\_2012/downloads](https://github.com/mehtasankets/ms_2012/downloads)**

**ubuntu**