[StuCo 98008]
GNU/Linux for Beginners

Session 4

Window Managers
X Applications

By the end of this lecture you will know

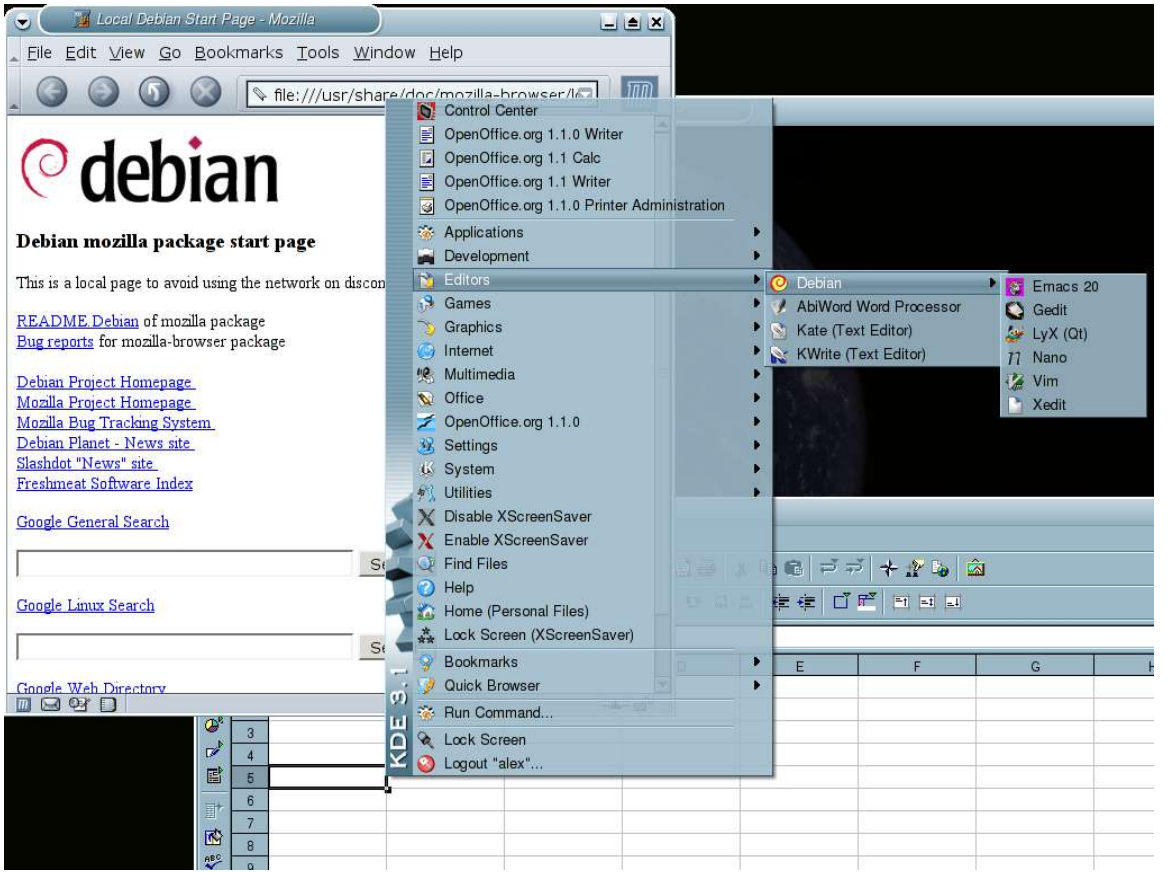
- A lot of buzzwords
  - KDE, GNOME, WindowMaker, BlackBox, TWM
  - OpenOffice.org, KOffice, Abiword, Gnumeric
  - Mozilla, Galeon, Epiphany, Konqueror, Firebird
  - Grip, MPlayer, K3B, Gcombust
  - GIMP, Dia, Kivio
- That there is no one “Linux” look or configuration.
- That choosing your poison can be a daunting task.

Desktop Environments

- Control your GUI's look & feel
  - Menus
  - Window decorations and handling
  - Icons
  - Applets
- Dominant Players
  - KDE
  - GNOME
  - WindowMaker
  - Enlightenment
  - BlackBox
  - TWM

KDE

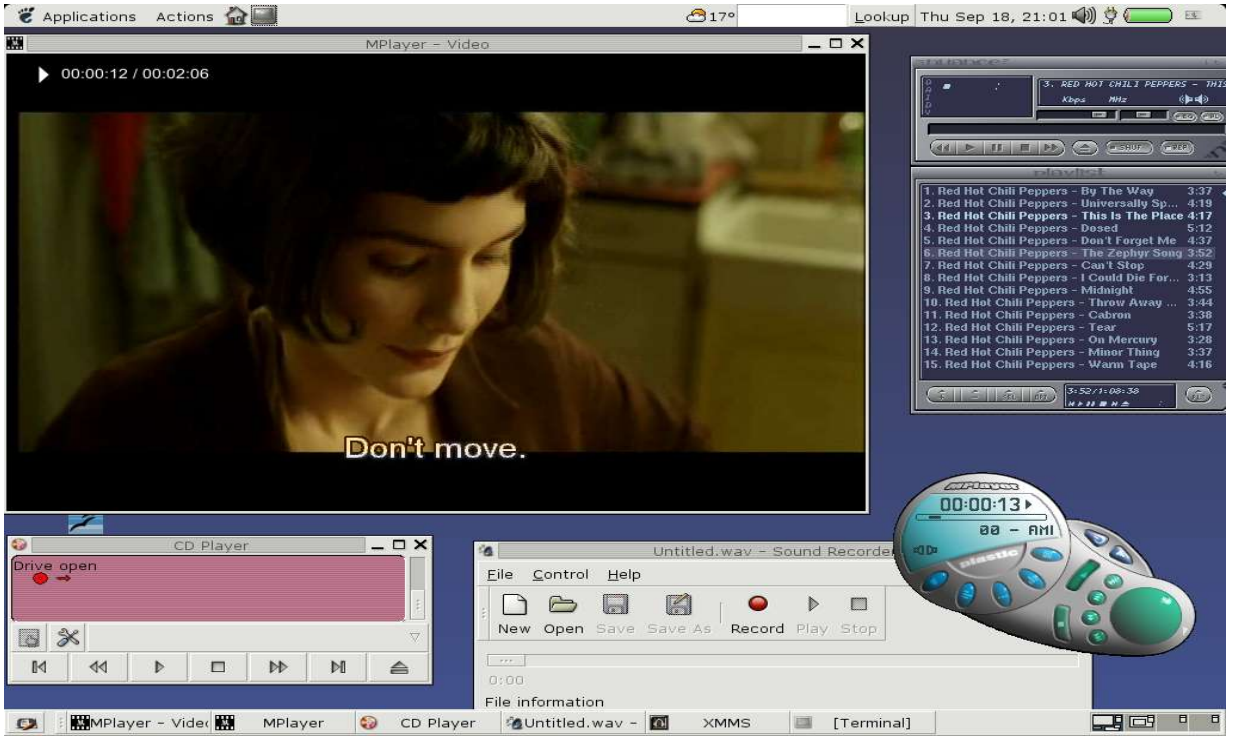
- Pros
  - Absolutely fluffy
  - Huge user base
  - Excellent native applications

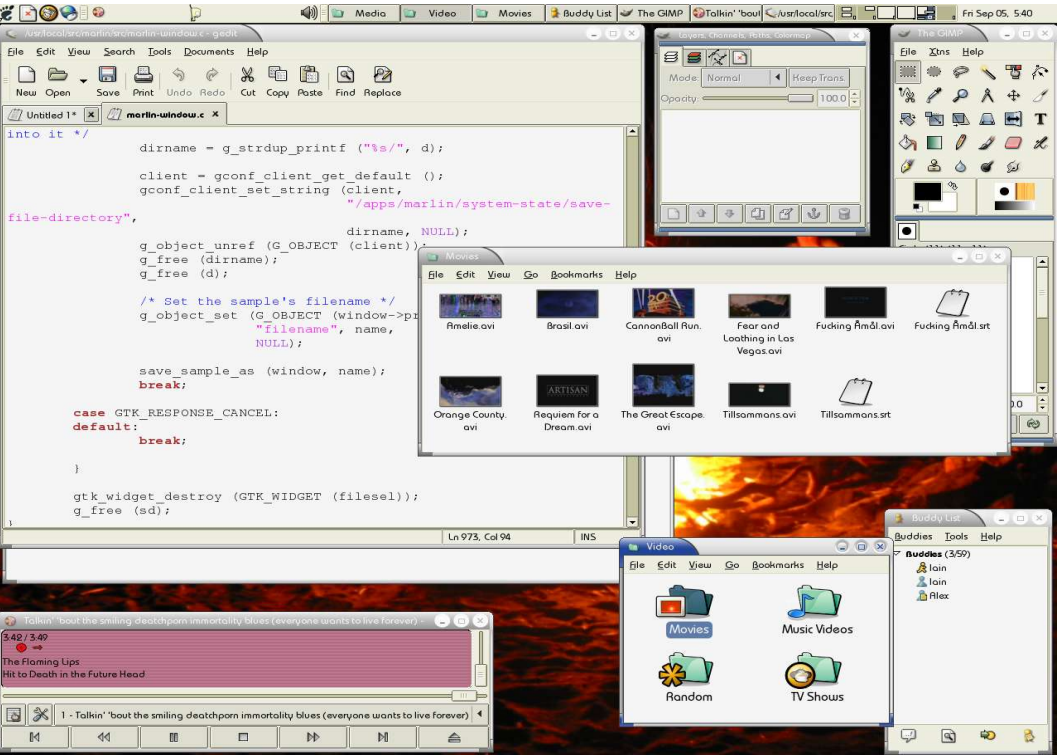


- Cons
  - Resource hog
    - CPU (266MHz+)
    - RAM (128MB+)
    - Disk space (150MB+)
  - Too smart for its own good?

GNOME

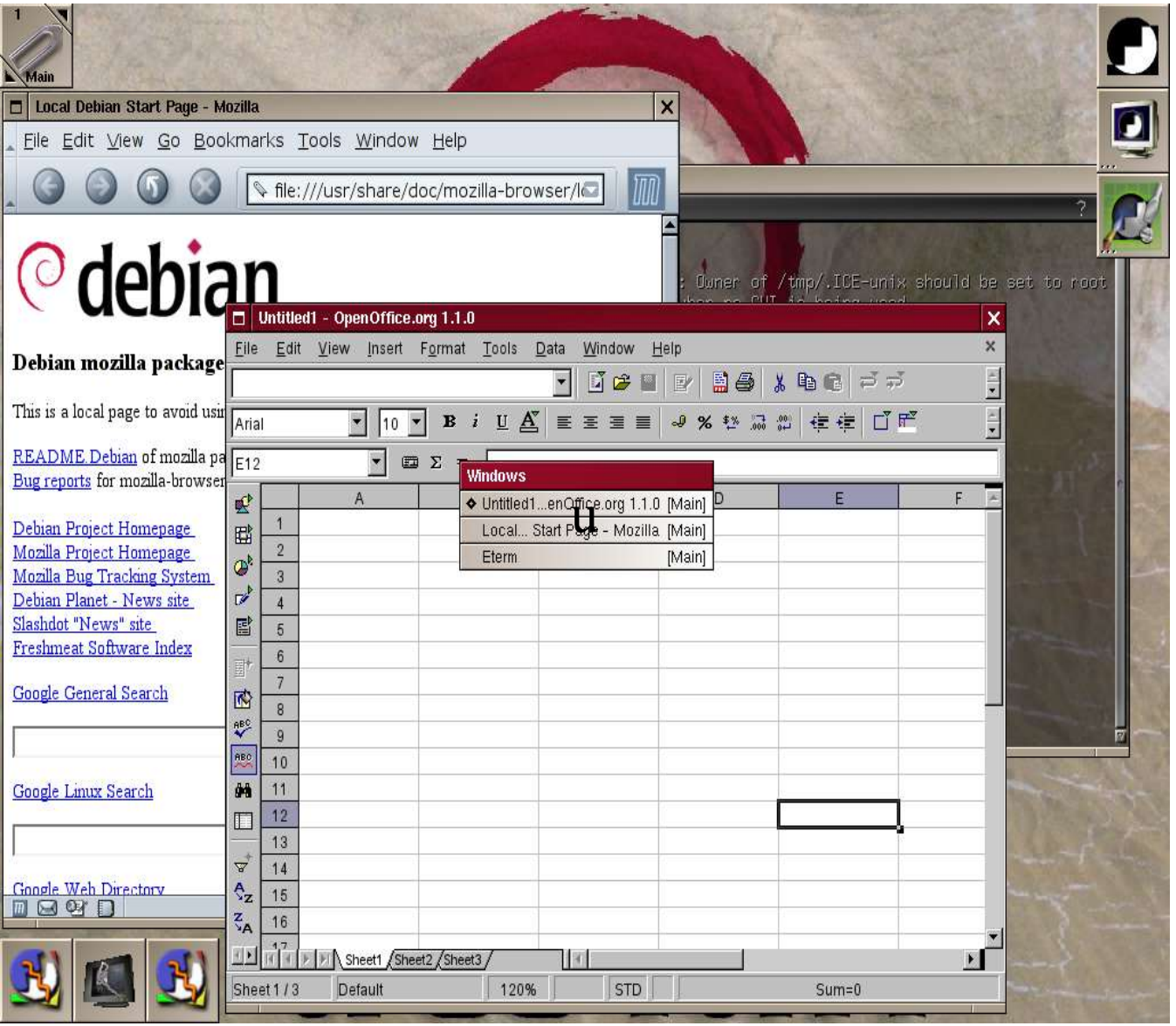
- Pros
  - Customizable
  - Faster than KDE
  - Native apps





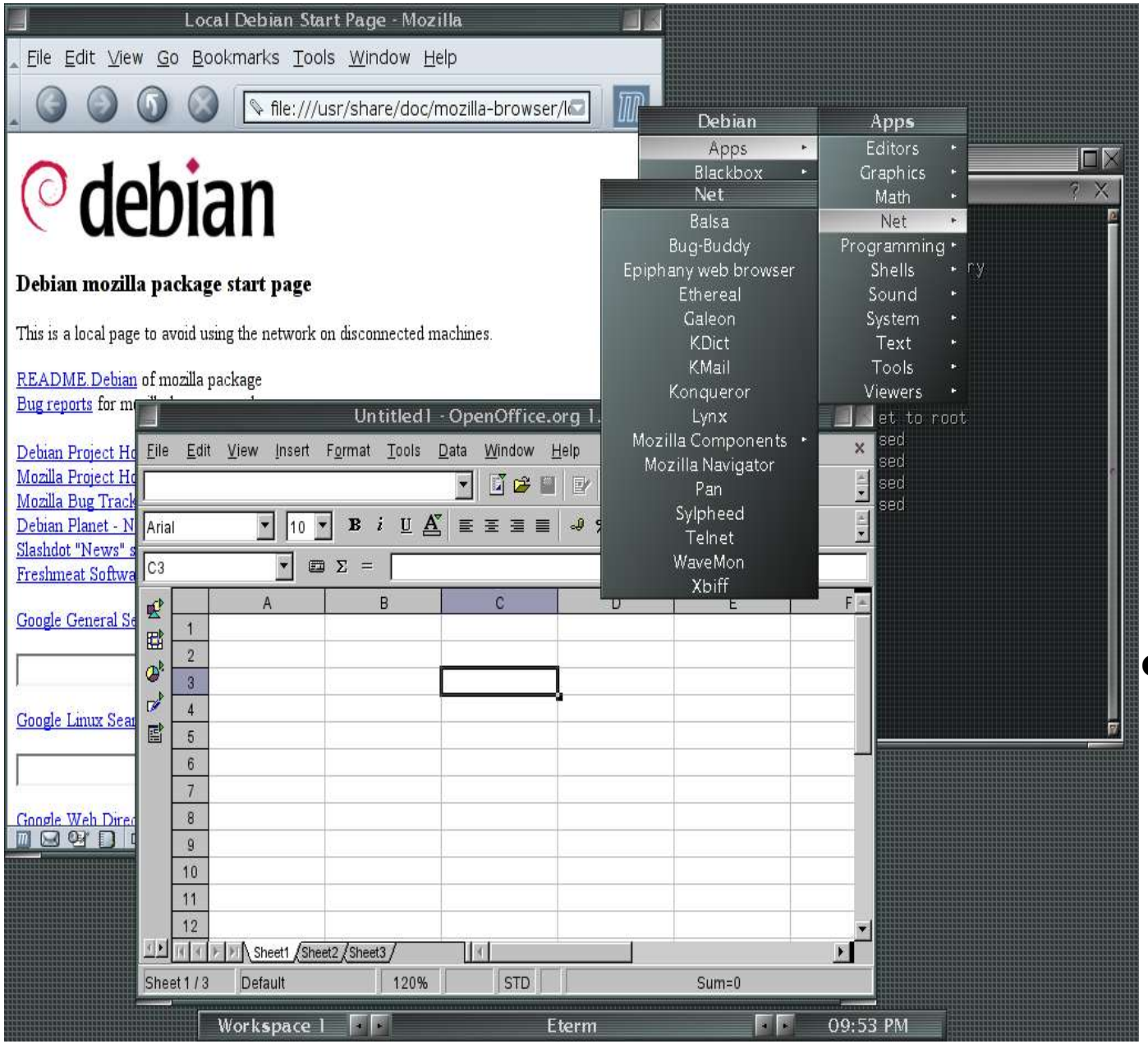
- Cons
  - Less intuitive than KDE for M$-Windows users
  - Disk space (150MB+)

WindowMaker



- Pros
  - Lightweight
  - Powerful
- Cons
  - Even less intuitive for M$-Windows users
  - Being superseded by big-2 (KDE/GNOME)

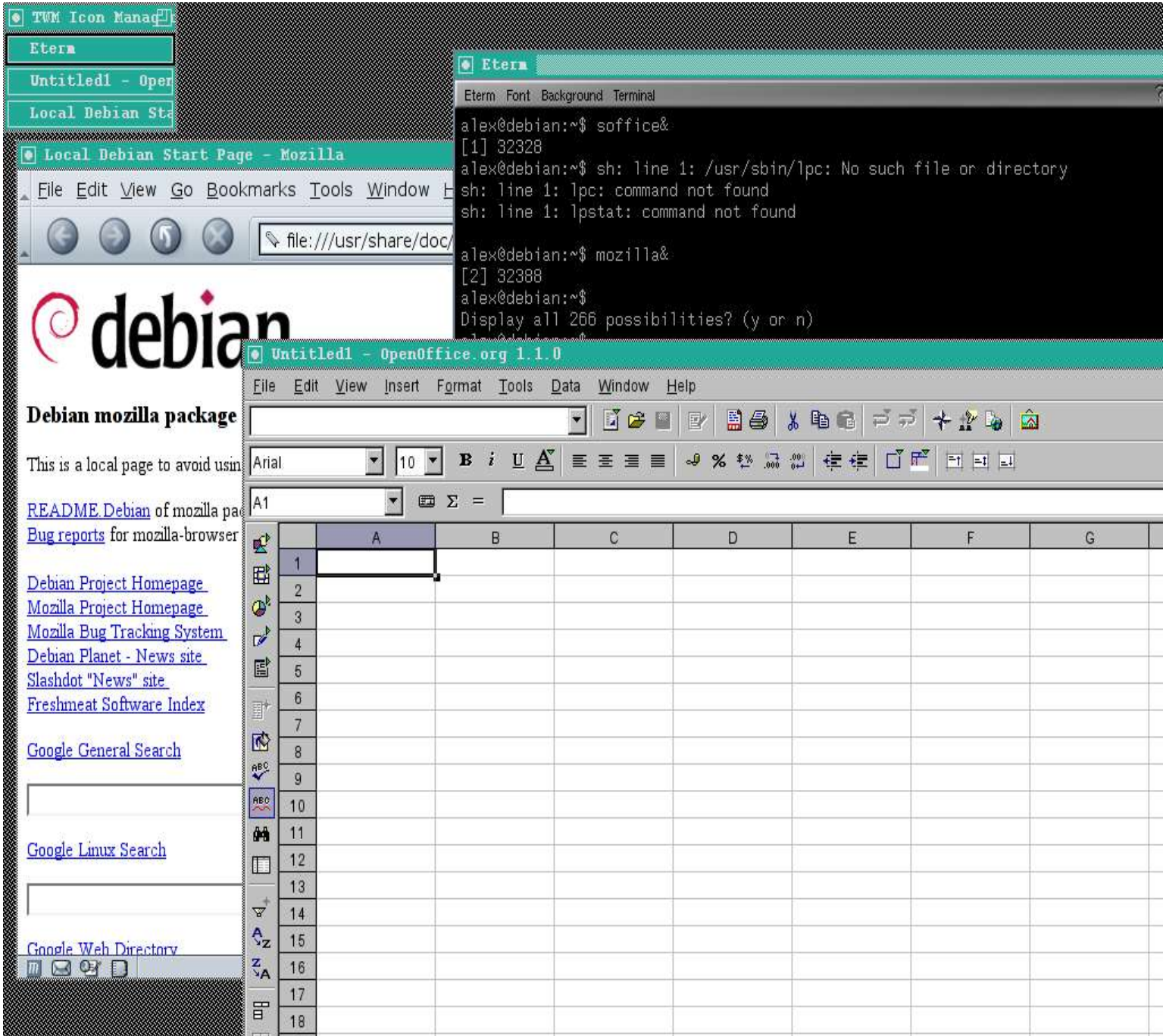
BlackBox



- Pros
  - Very small and lightweight
  - Can even be statically compiled for emergency toolkits.
- Cons
  - Small user base
  - Too minimalistic?

Tab Window Manager

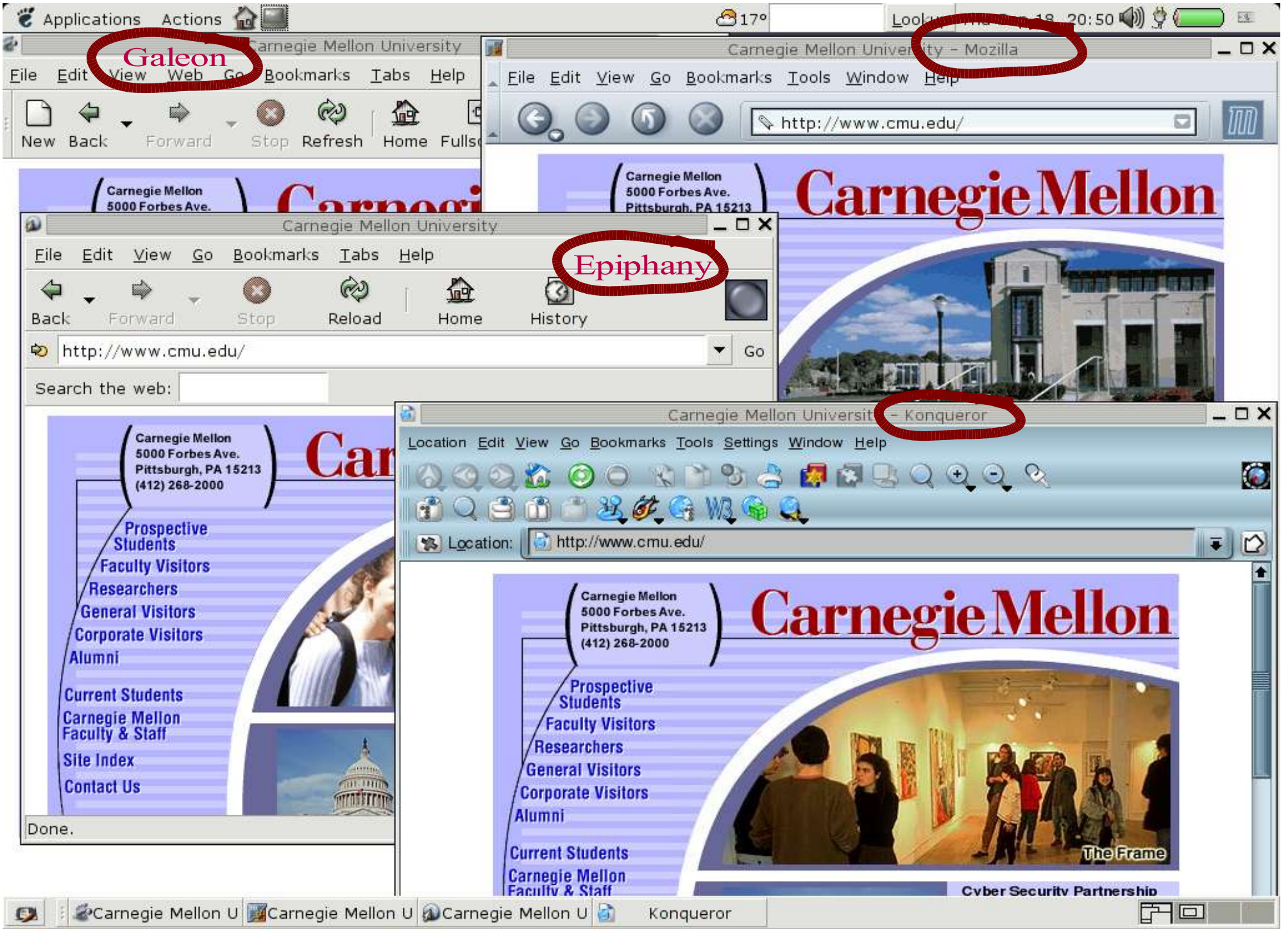
- Pros
  - Negligible memory footprint
  - Fast!
- Cons
  - Limited functionality
  - No fluff



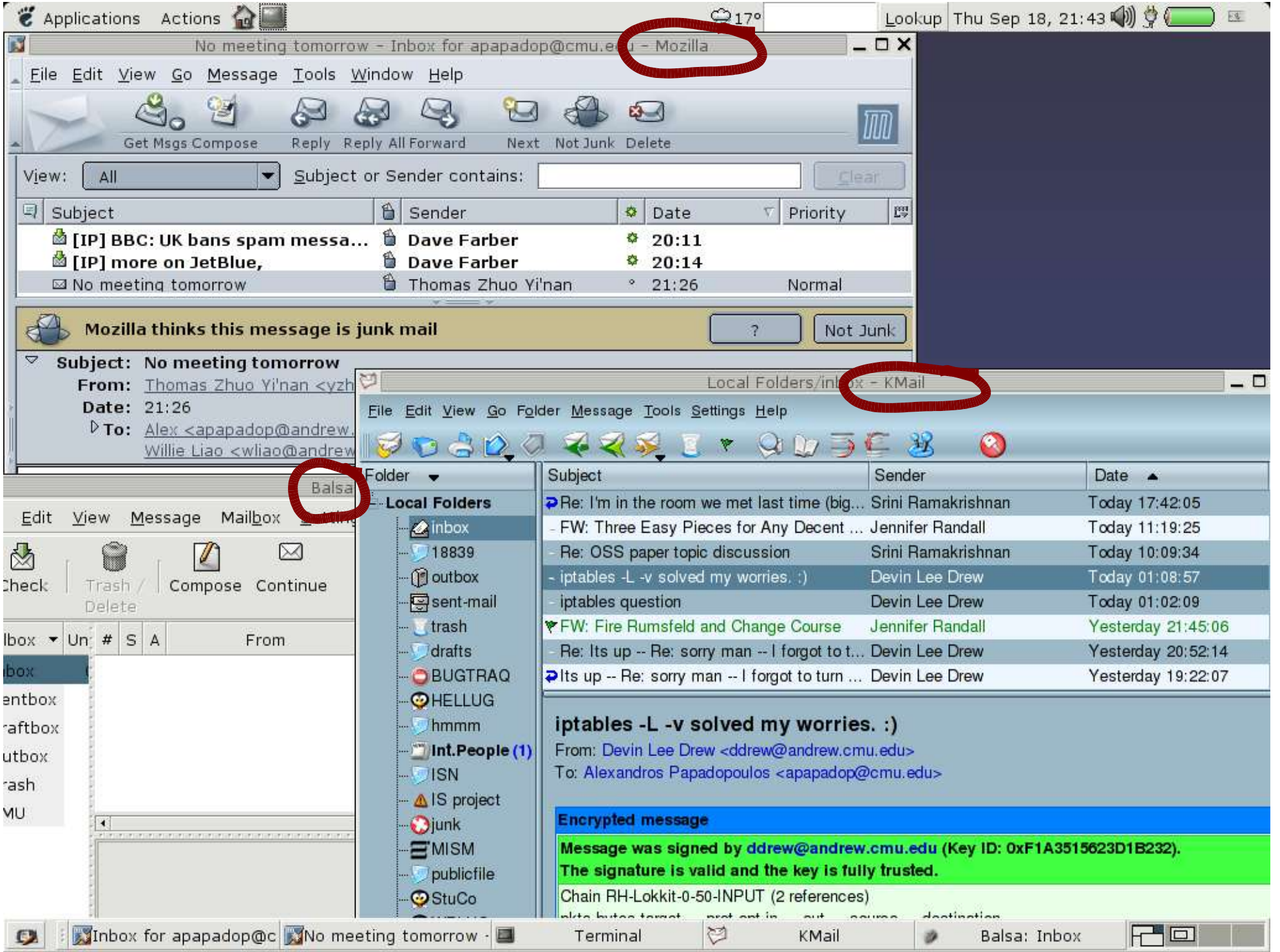
X Applications

- Browse the web
- Use email
- Chat online
- Listen to music – watch DVDs/VCDs
- Burn CDs
- Edit audio, video and still images
- Do work!

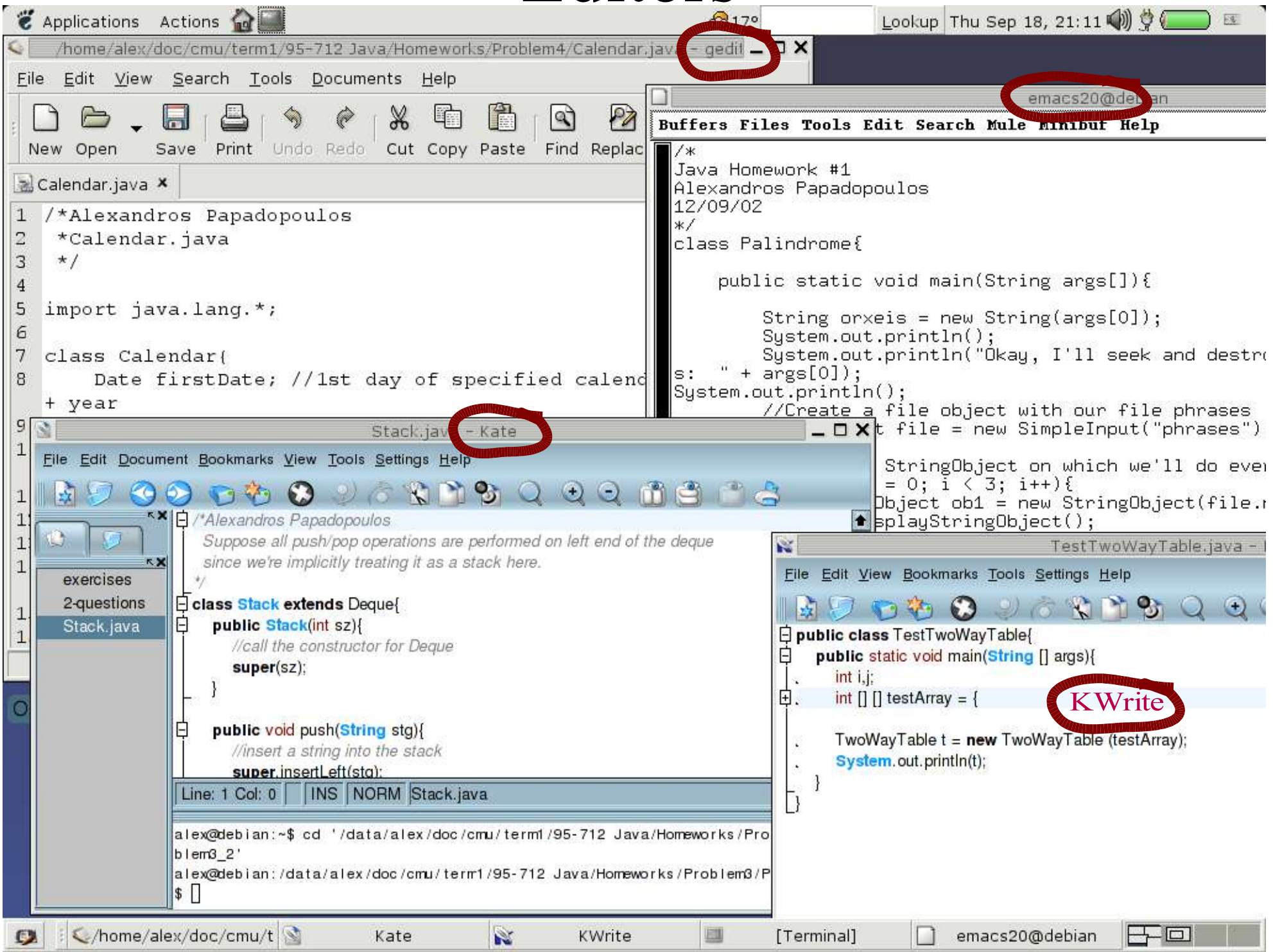
Web Browsers



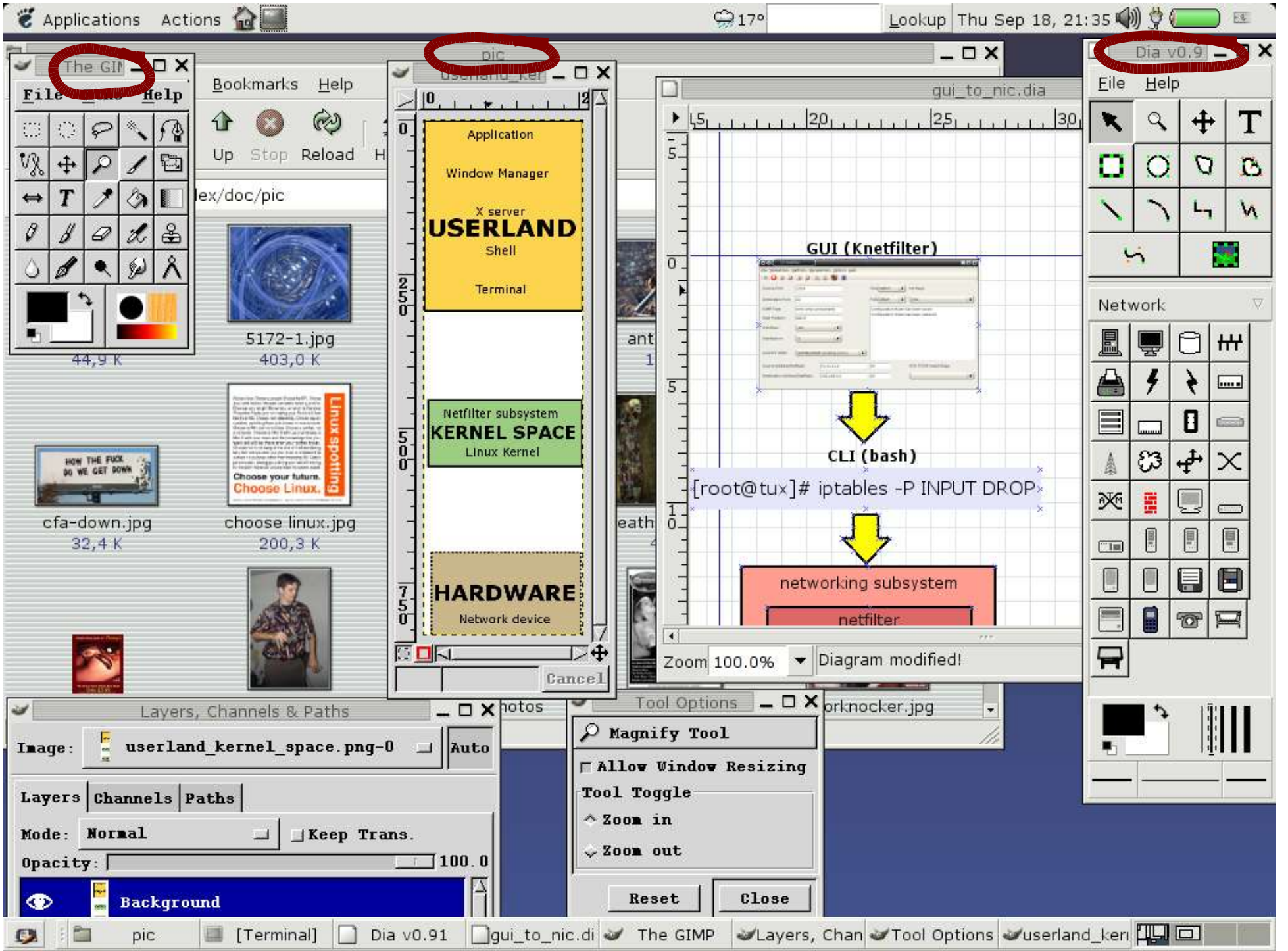
Email Clients



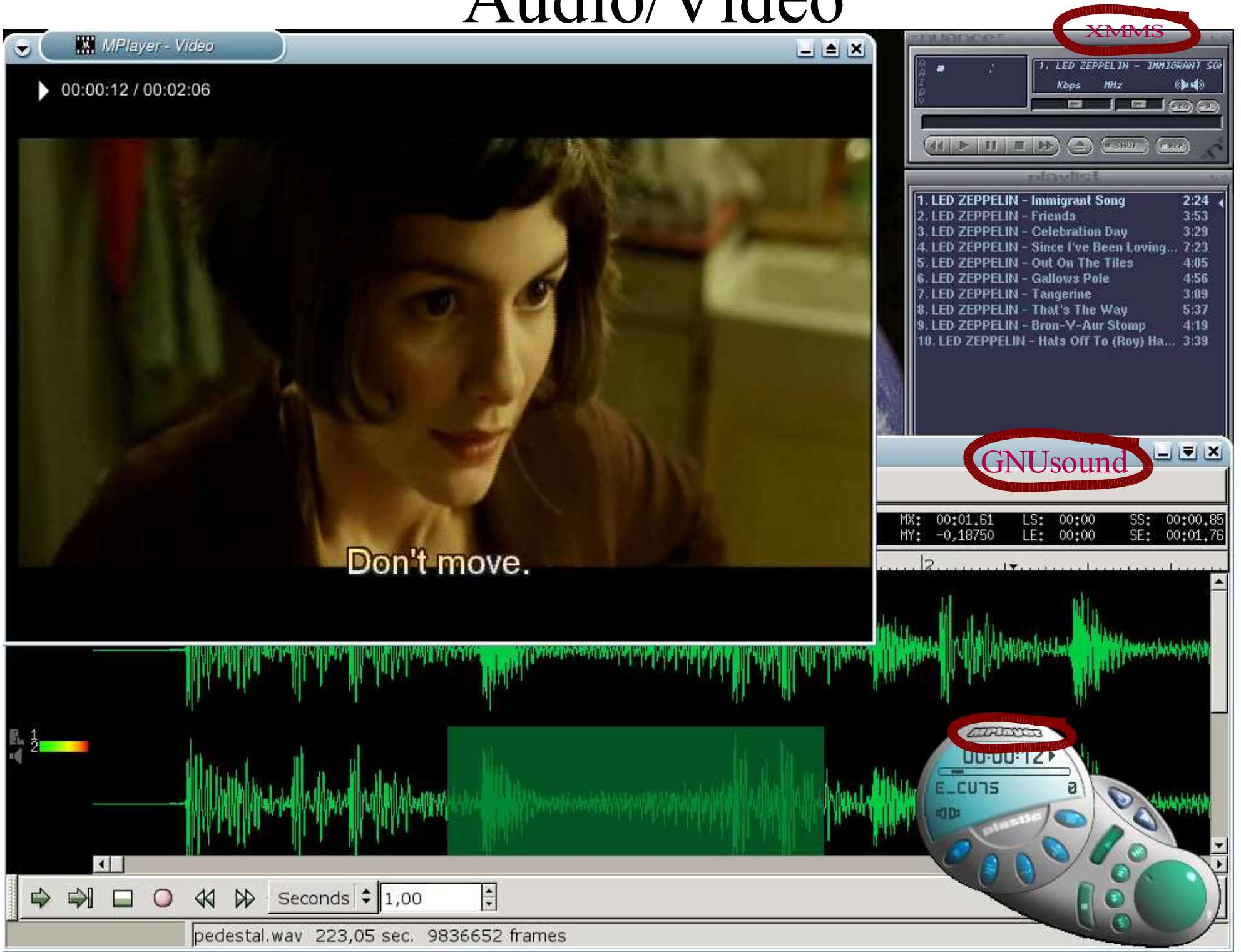
Editors


Applications Actions
Lookup Thu Sep 18, 21:11
/home/alex/doc/cmu/term1/95-712 Java/Homeworks/Problem4/Calendar.java - gedit
File Edit View Search Tools Documents Help
New Open Save Print Undo Redo Cut Copy Paste Find Replac
Calendar.java
1 /*Alexandros Papadopoulos
2 *Calendar.java
3 */
4
5 import java.lang.*;
6
7 class Calendar{
8 Date firstDate; //1st day of specified calend
+ year
emacs20@debian
Buffers Files Tools Edit Search Mule Minibuf Help
/*
Java Homework #1
Alexandros Papadopoulos
12/09/02
*/
class Palindrome{
public static void main(String args[]){
String orxeis = new String(args[0]);
System.out.println();
System.out.println("Okay, I'll seek and destr
s: " + args[0]);
System.out.println();
//Create a file object with our file phrases
t file = new SimpleInput("phrases")
StringObject on which we'll do ever
= 0; i < 3; i++){
Object ob1 = new StringObject(file.r
splayStringObject();
Stack.java - Kate
File Edit Document Bookmarks View Tools Settings Help
exercises
2-questions
Stack.java
/*Alexandros Papadopoulos
Suppose all push/pop operations are performed on left end of the deque
since we're implicitly treating it as a stack here.
*/
class Stack extends Deque{
public Stack(int sz){
//call the constructor for Deque
super(sz);
}
public void push(String stg){
//insert a string into the stack
super.insertLeft(stg);
Line: 1 Col: 0 INS NORM Stack.java
alex@debian:~$ cd '/data/alex/doc/cmu/term1/95-712 Java/Homeworks/Pro
blem3_2'
alex@debian:/data/alex/doc/cmu/term1/95-712 Java/Homeworks/Problem3/P
$
TestTwoWayTable.java -
File Edit View Bookmarks Tools Settings Help
public class TestTwoWayTable{
public static void main(String [] args){
int i,j;
int [] [] testArray = {
KWrite
TwoWayTable t = new TwoWayTable (testArray);
System.out.println(t);
}
}
/home/alex/doc/cmu/t
Kate
KWrite
[Terminal]
emacs20@debian

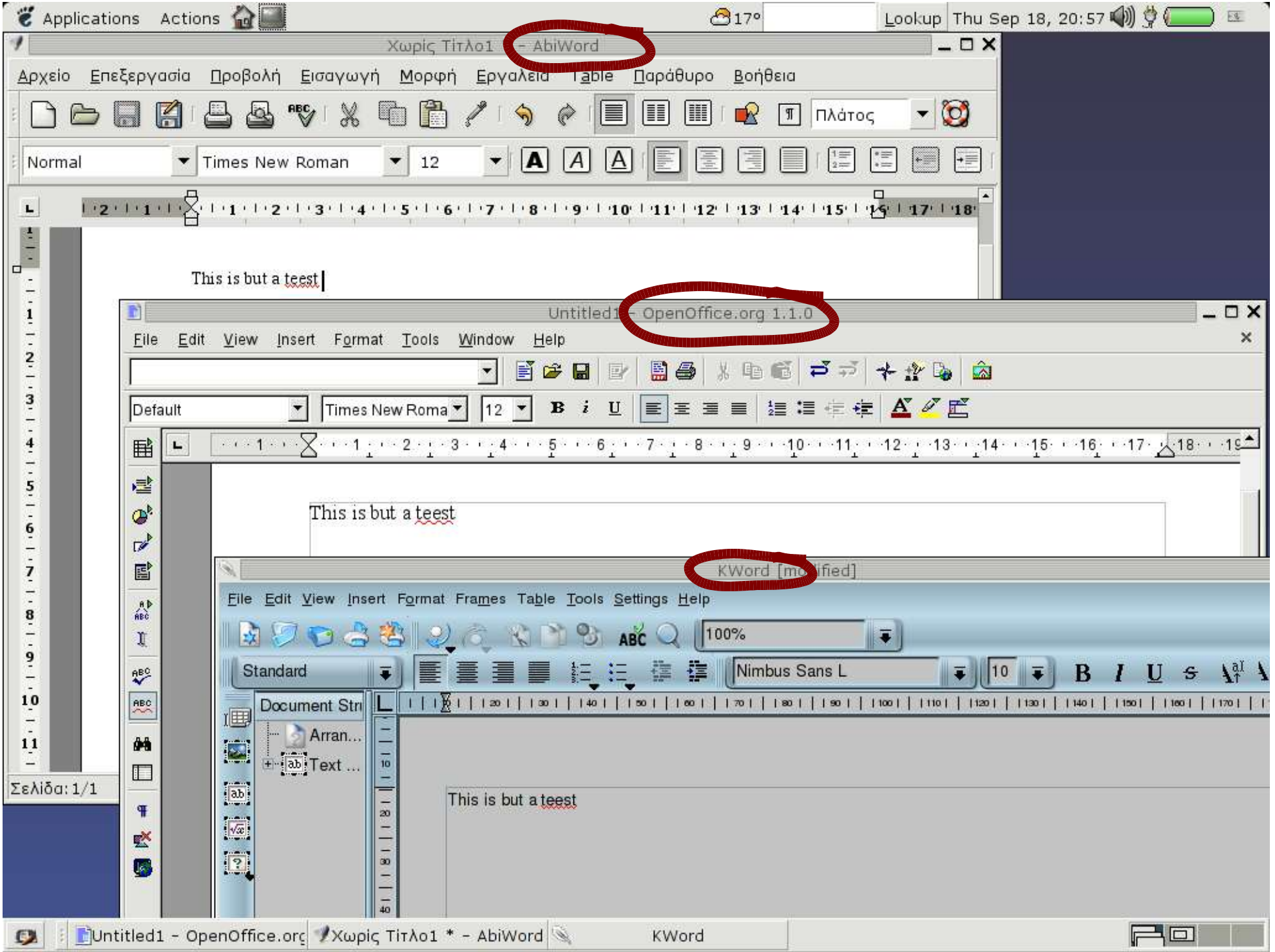
Graphics/Imaging



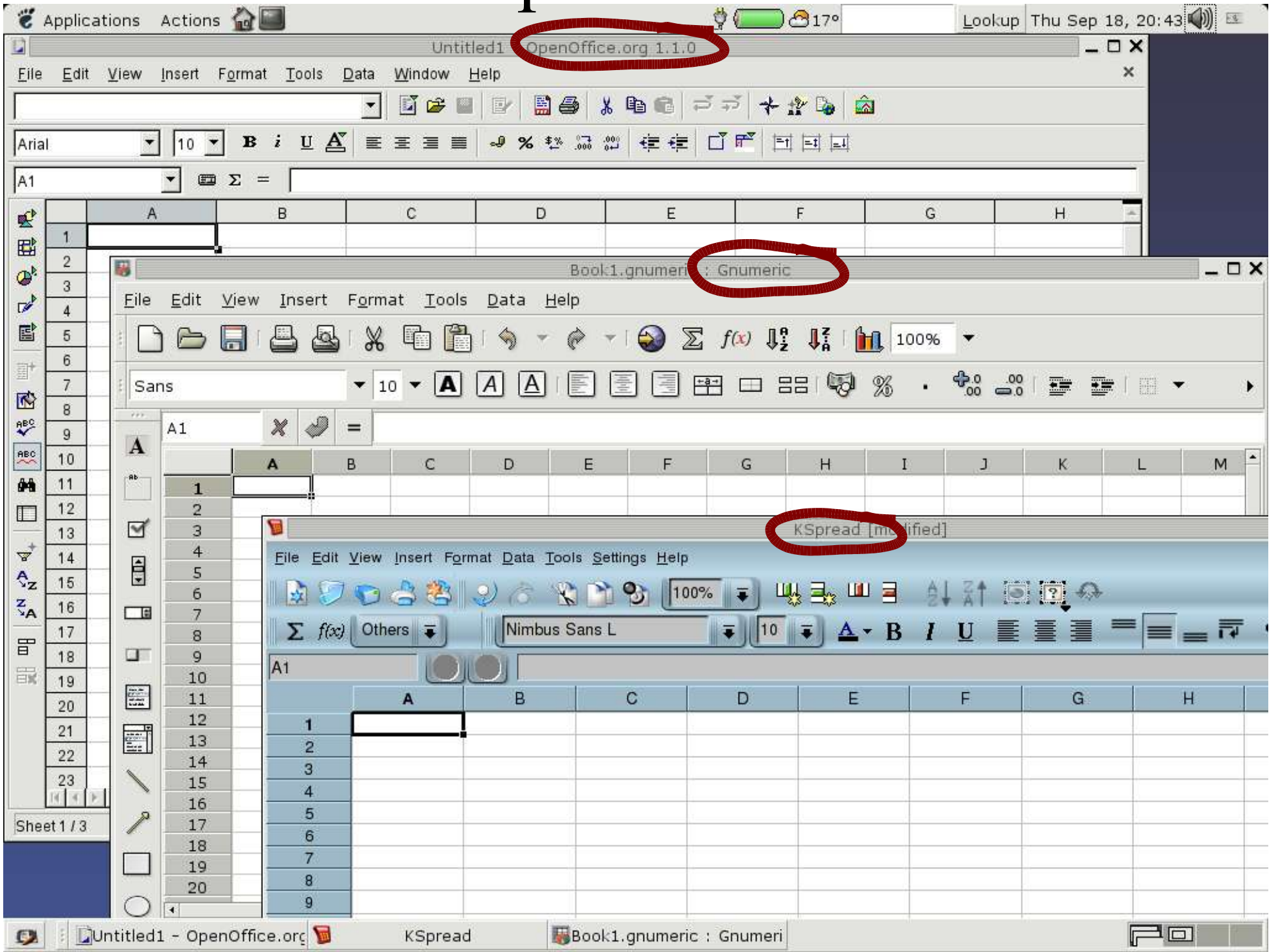
Audio/Video


MPlayer - Video
00:00:12 / 00:02:06
Don't move.
XMMS
1. LED ZEPPELIN - Immigrant Song 2:24
2. LED ZEPPELIN - Friends 3:53
3. LED ZEPPELIN - Celebration Day 3:29
4. LED ZEPPELIN - Since I've Been Loving... 7:23
5. LED ZEPPELIN - Out On The Tiles 4:05
6. LED ZEPPELIN - Gallows Pole 4:56
7. LED ZEPPELIN - Tangerine 3:09
8. LED ZEPPELIN - That's The Way 5:37
9. LED ZEPPELIN - Bron-Y-Aur Stomp 4:19
10. LED ZEPPELIN - Hats Off To (Roy) Ha... 3:39
GNUsound
MX: 00:01,61 LS: 00:00 SS: 00:00,85
MY: -0,18750 LE: 00:00 SE: 00:01,76
Seconds 1,00
pedestal.wav 223,05 sec. 9836652 frames

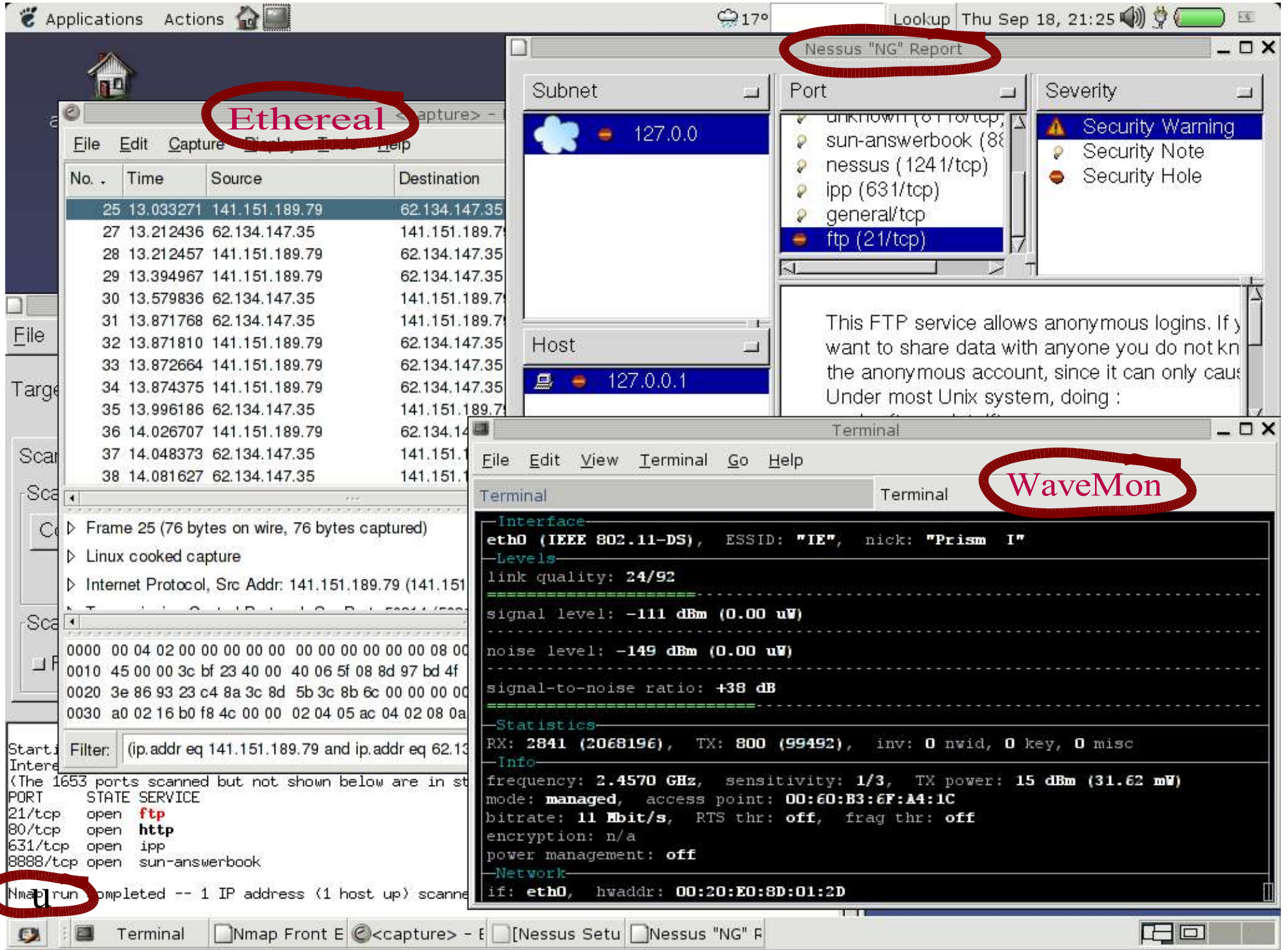
Word Processors



Spreadsheets



Networking


Applications
Actions
17°
Lookup
Thu Sep 18, 21:25
Nessus "NG" Report
Subnet
127.0.0
Port
sun-answerbook (8
nessus (1241/tcp)
ipp (631/tcp)
general/tcp
ftp (21/tcp)
Severity
Security Warning
Security Note
Security Hole
Host
127.0.0.1
This FTP service allows anonymous logins. If y
want to share data with anyone you do not kn
the anonymous account, since it can only caus
Under most Unix system, doing :
Ethereal
File Edit Capture
No. Time Source Destination
25 13.033271 141.151.189.79 62.134.147.35
27 13.212436 62.134.147.35
28 13.212457 141.151.189.79 62.134.147.35
29 13.394967 141.151.189.79 62.134.147.35
30 13.579836 62.134.147.35
31 13.871768 62.134.147.35
32 13.871810 141.151.189.79 62.134.147.35
33 13.872664 141.151.189.79 62.134.147.35
34 13.874375 141.151.189.79 62.134.147.35
35 13.996186 62.134.147.35
36 14.026707 141.151.189.79
37 14.048373 62.134.147.35
38 14.081627 62.134.147.35
Frame 25 (76 bytes on wire, 76 bytes captured)
Linux cooked capture
Internet Protocol, Src Addr: 141.151.189.79 (141.151
0000 00 04 02 00 00 00 00 00 00 00 00 00 00 00 08 00
0010 45 00 00 3c bf 23 40 00 40 06 5f 08 8d 97 bd 4f
0020 3e 86 93 23 c4 8a 3c 8d 5b 3c 8b 6c 00 00 00 00
0030 a0 02 16 b0 f8 4c 00 00 02 04 05 ac 04 02 08 0a
Filter: (ip.addr eq 141.151.189.79 and ip.addr eq 62.13
Terminal
File Edit View Terminal Go Help
Terminal
Terminal
WaveMon
Interface
eth0 (IEEE 802.11-DS), ESSID: "IE", nick: "Prism I"
Levels
link quality: 24/92
signal level: -111 dBm (0.00 uW)
noise level: -149 dBm (0.00 uW)
signal-to-noise ratio: +38 dB
Statistics
RX: 2841 (2068196), TX: 800 (99492), inv: 0 nwid, 0 key, 0 misc
Info
frequency: 2.4570 GHz, sensitivity: 1/3, TX power: 15 dBm (31.62 mW)
mode: managed, access point: 00:60:B3:6F:A4:1C
bitrate: 11 Mbit/s, RTS thr: off, frag thr: off
encryption: n/a
power management: off
Network
if: eth0, hwaddr: 00:20:E0:8D:01:2D
(The 1653 ports scanned but not shown below are in st
PORT STATE SERVICE
21/tcp open ftp
80/tcp open http
631/tcp open ipp
8888/tcp open sun-answerbook
Nmap run completed -- 1 IP address (1 host up) scanne
Terminal
Nmap Front E
[Nessus Setu
Nessus "NG" R

Choice: Bliss or Burden?

- New users are overwhelmed by breadth of choice
- Fail-safe configuration for newbies
  - KDE
  - Mozilla Web Browser & Email Client
  - OpenOffice.org
- Special needs not compromised
  - Nostalgics: “I'll die with TWM on my screen”
  - Geeks: “I compiled GNOME from source and it loads in 1,2 seconds”
  - Old hardware: “Mozilla takes 3 minutes to load with 8MB of RAM on my 100MHz box”

Final Notes

- 3GB on disk for OS + all of the above
- “Registry clutter” not an issue
- Installing/uninstalling one application does not affect the other
- Installing/uninstalling applications certainly doesn't affect the Operating System (!)
- Why do M$-IE and M$-Office start up so fast?
- "He who gives up functionality for ease of use loses both and deserves neither." (Anonymous)