



Create your own Live CD from Knoppix

THE LIVE CD WORKSHOP

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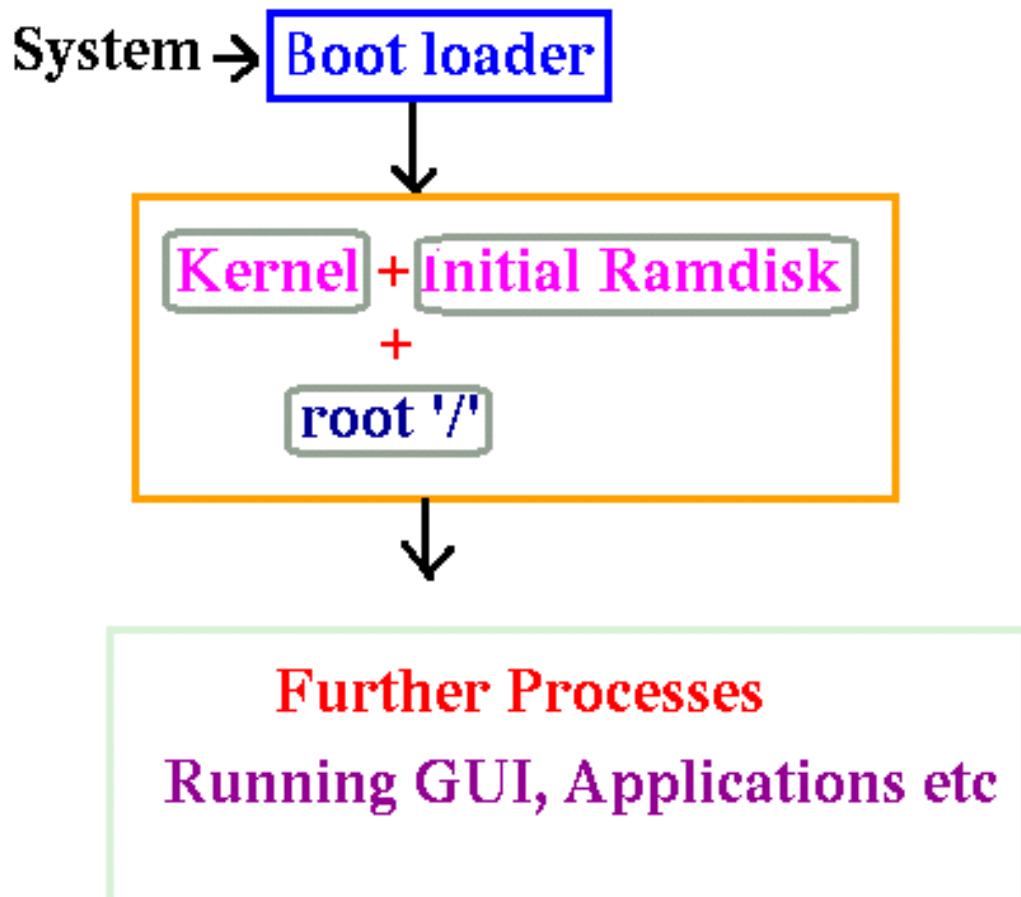


Essence of this workshop

- What is a Live CD?
- Uses
- Origin of Live CDs.
- How does it work?
- About Knoppix.
- My experience with SLYNUX
- What is remastering?
- Remastering process explained. (Knoppix)

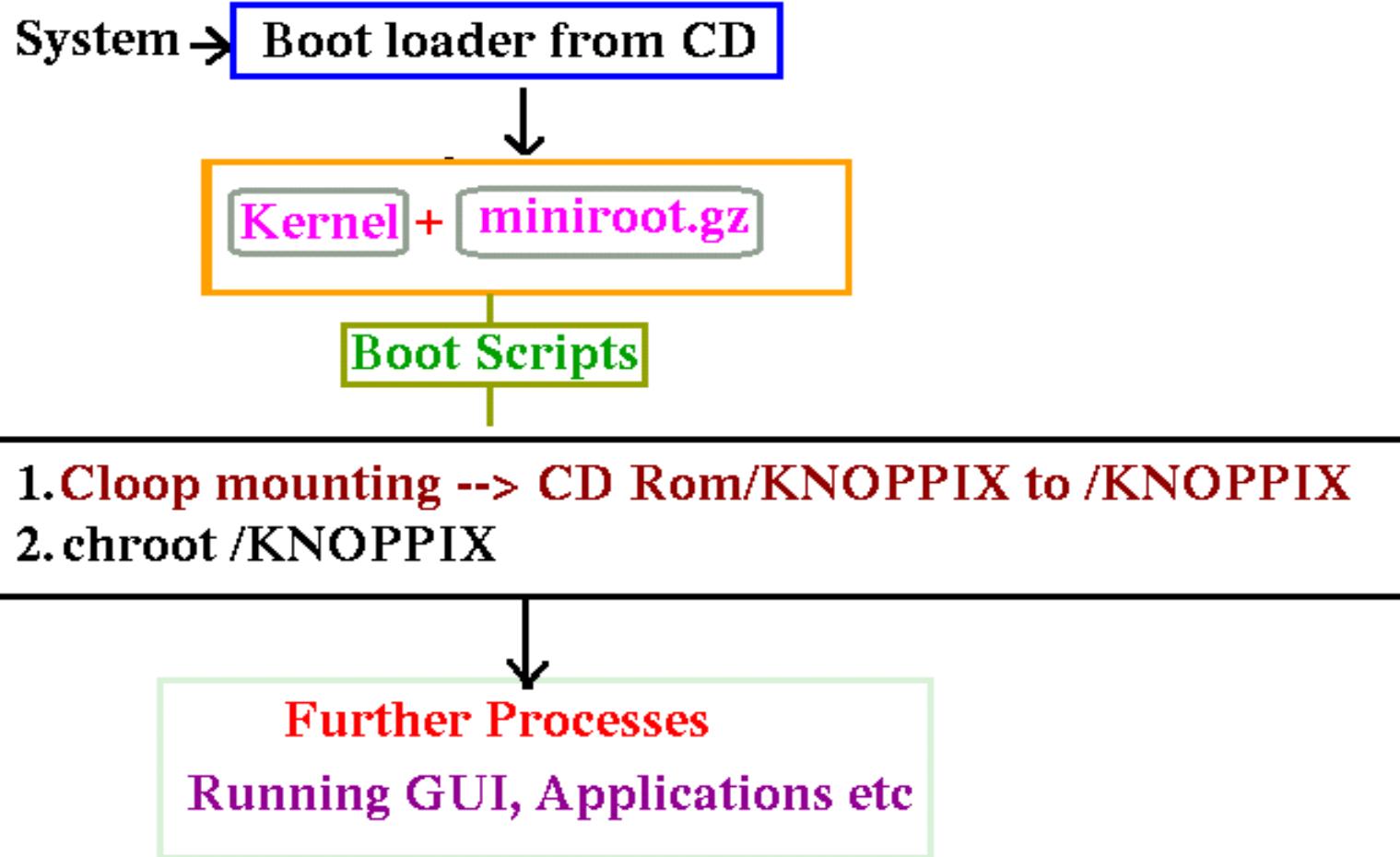


Working of GNU/Linux OS





How knoppix works?





Knoppix remasteing Howto ?

- Boot using knoppix
- Copy /KNOPPIX to My Remaster/new (say)
- Create Swap partition
- Chroot to My Remaster/new
- Add/ Remove applications
- Cloop - Compression
- Create iso and burn it.





Commandlines

Create a ext3/ext2 (say hda1) & a Swap partition

```
# mount /dev/hda1 /mnt/hda1
# mkdir /mnt/hda1/my_knx
# mkdir /mnt/hda1/my_knx/newCD
# copy /boot (from CD Rom) to
/mnt/hda1/my_knx/newCD
```

```
# cp -Rp /KNOPPIX /mnt/hda1/my_knx
# chroot /mnt/hda1/my_knx/KNOPPIX
root@0[/]#apt-get install ...remove
root@0[/]#dpkg -i ...
```



Commandlines..

```
# mkdir /mnt/hda1/my_knx/newCD/KNOPPIX  
#mkisofs -R ..../KNOPPIX | create_compressed_fs – 65536>  
/mnt/hda1/my_knx/newCD/KNOPPIX  
  
# mkisofs -pad -l -r -J -v -V "KNOPPIX" -no-emul-boot -boot-load-size  
4 \  
-boot-info-table -b boot/isolinux/isolinux.bin -c boot/isolinux/boot.cat \  
-hide-rr-moved -o /mnt/hda1/my_knx/newdistro.iso  
/mnt/hda1/knx/newCD
```

Burn the iso and enjoy.



Tips to work with appearance

- Working with boot scripts
- Copy /boot/miniroot.gz
- # gunzip miniroot.gz
- # mkdir test
- # mount -o loop miniroot test
- Make necessary changes.. (linuxrc)
- Umount it and gzip...Replace original



Tips about appearance

- Bootscreen:
- Find /boot/isolinux/logo.16
- # lss16toppm logo.16 <logo.ppm>
- # ppmтолss16 logo.ppm <logo.16>
- Working out with GUI
- Copy user ~ dir to /etc/skel



Tips

- Remastering made easy using automation scripts. :)
<http://debian.tu-bs.de/knoppix/remaster/>
- New UNIONFS
- Cloop and Squashfs
- Other distros :-
- Slax, Mepis, Kanotix, Morphix, puppy, Gnoppix....



Testing, Common errors

- Testing your new custom knoppix.
- Using Emulators:
 - Vmware
 - Qemu
 - Errors
 - 1.) Compression
 - 2) About creating logo.16



Thanks to foss.in

- Experience with my distro - SLYNUX

Let's Create a Live CD now.



Happy Remastering!

Thank you!

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