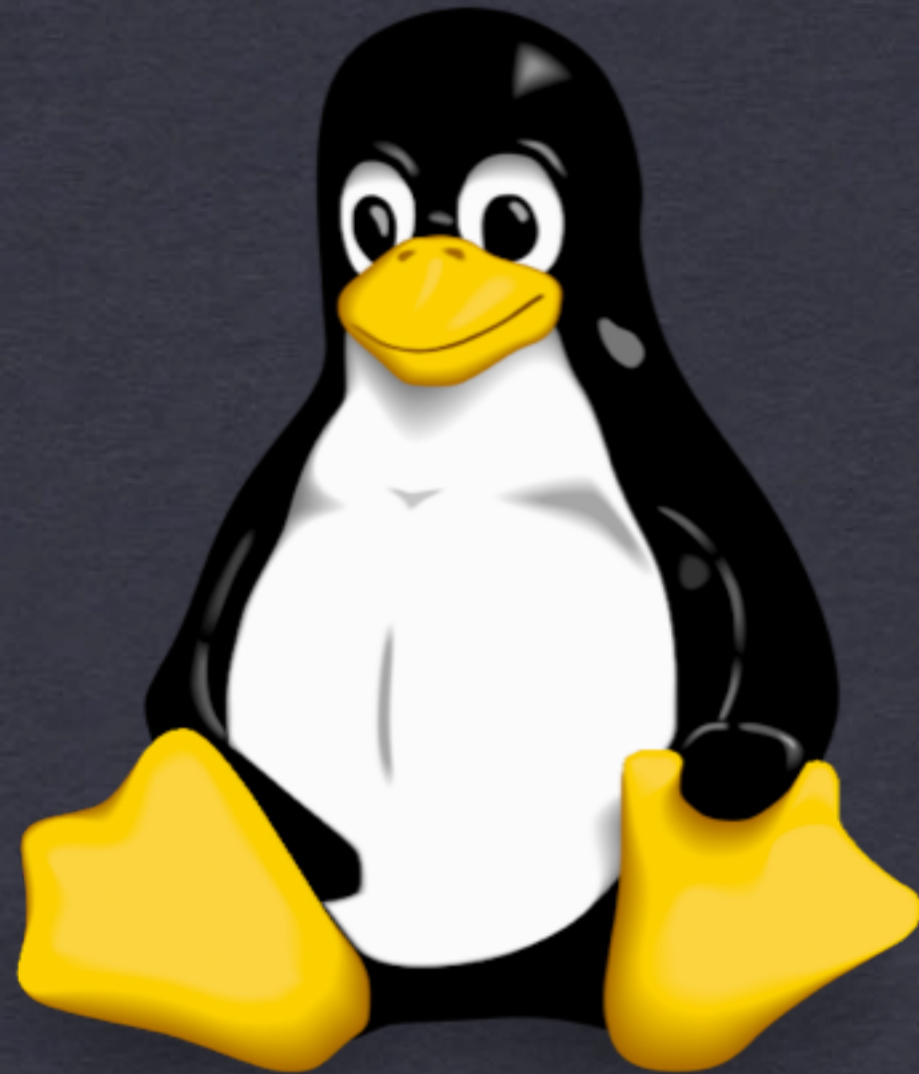




A brief overview of Linux

**or: How I Learned to Stop Worrying and Love
the Penguin**

A little about me

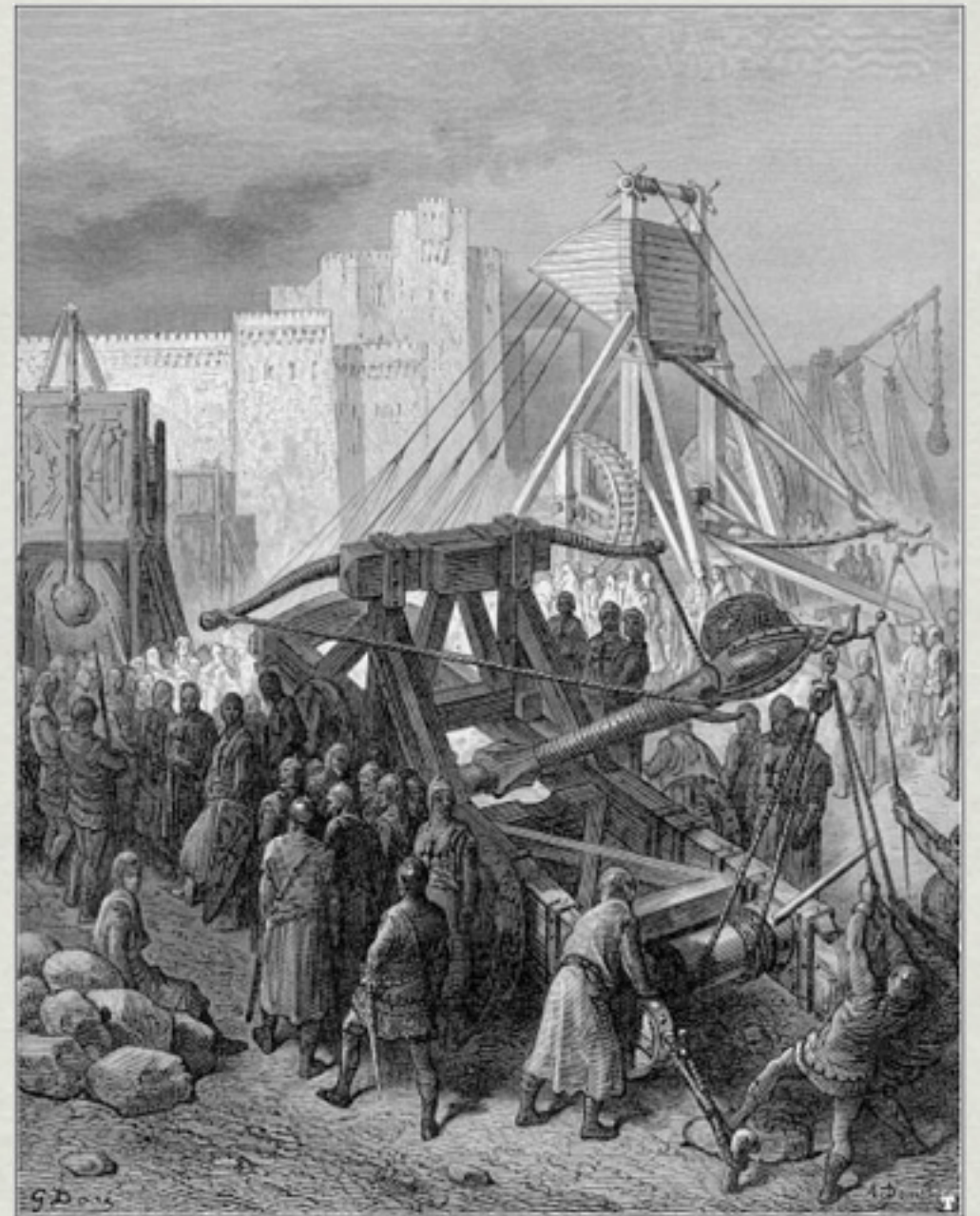
- * A Linux user from ~2003
- * Currently using Ubuntu.
- * Previously used Redhat, Gentoo, Arch, Debian
- * this presentation will be posted on <http://denner.co>
- * Contact info: denner@gmail.com twitter @adenner

About this talk

- ✱ A little about the history of linux, and why it is so fractured
- ✱ What is a distribution, why are there so many of them, and why should I care
- ✱ A brief survey of some popular distros

What this talk is not

- ✱ A guide how to install linux (this will come in another talk)
- ✱ A complete overview of every version of Linux
- ✱ An attempt to start a holy war



Terms and Ideas

- ✱ Distribution: a member of the family of Unix-like operating systems built on top of the Linux kernel
- ✱ Desktop Manager: The GUI, i.e. KDE, GNOME, Unity
- ✱ Open Source Software
- ✱ Free as in speech
- ✱ Free as in Beer

A very brief history

- * More to come in another speech
- * 1970-ATT Unix (Bell Labs)
- * 1977 BSD (UC Berkley)
- * 1983 RMS and GNU
- * 1987 Minux (os source code was available but distribution limited)
- * 1991 Linus Torvalds started personal project that would become Linux

HOW STANDARDS PROLIFERATE:

(SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC.)

SITUATION:
THERE ARE
14 COMPETING
STANDARDS.

14?! RIDICULOUS!
WE NEED TO DEVELOP
ONE UNIVERSAL STANDARD
THAT COVERS EVERYONE'S
USE CASES.



SOON:

SITUATION:
THERE ARE
15 COMPETING
STANDARDS.

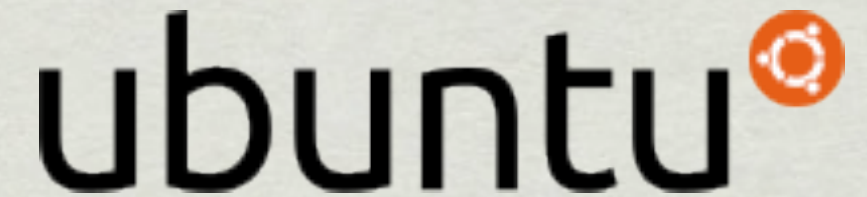
Debian



- ✱ Prides itself on being completely “Free”
- ✱ Several versions
 - ✱ Stable (every 2 years last released Oct 12, 2013 Wheezy)
 - ✱ Backports
 - ✱ Testing
 - ✱ Unstable (Jessie)
 - ✱ experimental
- ✱ Uses dpkg-apt package management
- ✱ Default UI is GNOME



Ubuntu



- ✱ Based off of Debian, Development is led by Canonical
- ✱ Goal to be user friendly, released every 6 months and every 4th release a LTS (last 4-25-2013 and 4-26-2012)
- ✱ Default UI is Unity, however several variants, Kubuntu (KDE), Lubuntu (LXDE), Ubuntu GNOME etc. Mint
- ✱ Also has a server variant as well as Live CD



Redhat



- * Enterprise targeted (\$\$\$)
- * Package Management: RPM
- * Default UI: GNOME



Computer



wiki's Home



Trash

Fedora



- * Feeder to Redhat using the latest technologies
- * Uses yum/RPM package management
- * Short cycles: new versions every 6 months, maintenance for 13 months
- * User Interface GNOME 3



CentOS



CentOS

- * “Community Enterprise Operating System”
- * One of many Redhat Clones



Applications

Places

System



Tue Jul 12, 09:32

CentOS User



Computer



centos's Home



Trash





Applications

Places

System



Sun Mar 6, 09:53

Wikipedia



Computer



wiki's Home



Trash



Gentoo



- * Compiled from source to specifications
- * Portage Package Management System
- * Currently it is officially supported and considered stable on x86, x86-64, IA-64, PA-RISC, PowerPC, PowerPC 970, SPARC 64-bit and DEC Alpha and is in development on MIPS, PS3 Cell Processor, System Z/s390, ARM, and SuperH.

—navigate

- enable-h8
- omg-optimized
- USE-flags
- fuck-upstream
- teach-me-unix
- time-records
- disable-instructions
- Wall -feedback

Gentoo is for Ricers

Welcome, this page is dedicated to the Linux Community's greatest ambassadors, Gentoo users. Like the annoying teenager next door with a 90hp import sporting a 6 foot tall bolt-on wing, Gentoo users are proof that society is best served by roving gangs of armed vigilantes, dishing out swift, cold justice with baseball bats to those fucking ricer bastards.

Please note, these quotes are real. I didn't bother to link to the original quotes because it's too much work and this page is mostly an amalgamation of different things that I've found on the web. Besides, we all know people like this, if you spent 6 hours compiling X, you'd like to think it was for something useful right? You can't make this shit up, we're not kidding. People like this are *real*. While [some pages](#) attempt a more practical look at a Gentoo user's behavior, we're not so lenient. Most of these quotes come from the Gentoo forums themselves or from slashdot.

We've bolded things that are just so ludicrous that you need to sit down to read them.



--omg-optimized

The true ricer spirit lives on.

HOLY COW I'M TOTALLY GOING SO FAST OH F***



"Its [Debian's] versatility costs it performance. The binary package management really says it all.. you shouldn't be running *anything* but compiled source on a performance cluster."



Desktop Icons

Bug Tracker

Install Adobe
Flash

Internet Relay
Chat Support

Support
Forums

Trash

User
Handbook



gentoo linux™

The source gives you the force to control

Arch



- * Default interface is BASH (command prompt)
 - * You choose your own window manager
- * Targeted at power users
- * Package Management Pacman
- * Packages compiled for i686 processors

Knoppix



- * Live CD/USB
- * Created and maintained by Klaus Knopper
- * Default UI LXDE
- * Debian Based (ish)

Knoppix Family Tree

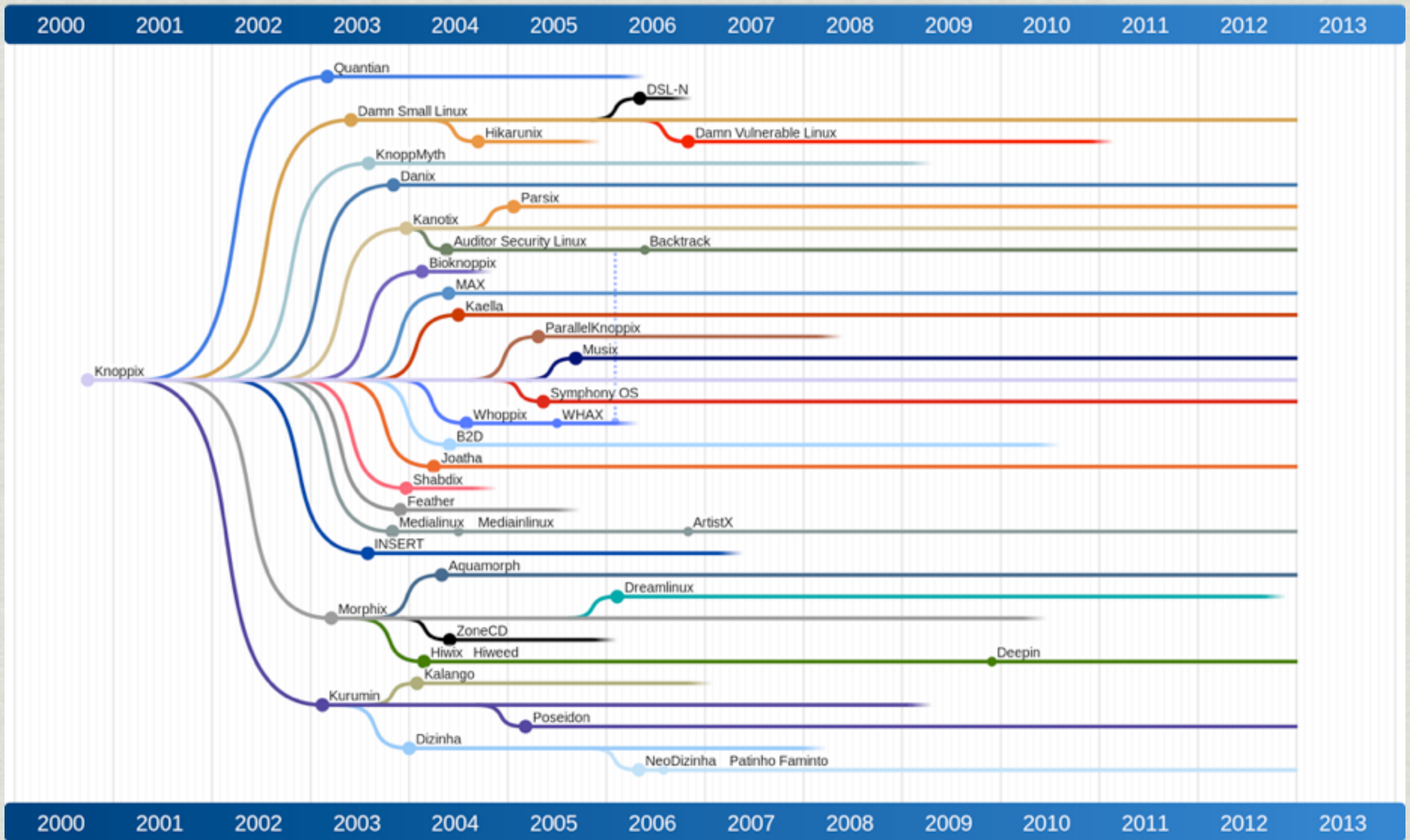
Based on GLDT version 12.10

A. Lundqvist, D. Rodic - futurist.se/gldt

Published under the GNU Free Documentation License



- Influence, developer switching
- Rebasing, substantial code flow, project overtaking
- Developer & code sharing, project merging





My Documents

LXDE

LIGHTWEIGHT X11 DESKTOP ENVIRONMENT



20:23

Where to go from here

- * Virtual box/VMware
- * Ask for help
- * Don't panic!

Links

- * Debian: <http://www.debian.org>
- * Ubuntu: <http://www.ubuntu.com>
- * Redhat: <http://www.redhat.com>
- * Fedora: <http://fedoraproject.org>
- * CentOS: <http://www.centos.org>
- * Gentoo: <http://www.gentoo.org>
- * Arch: <https://www.archlinux.org>
- * Knoppix: <http://knoppix.net>
- * Distro Watch: <http://distrowatch.com/dwres.php?resource=major>