



POR QUE SOFTWARE LIVRE?

Pedro Henrique Fonseca Costa

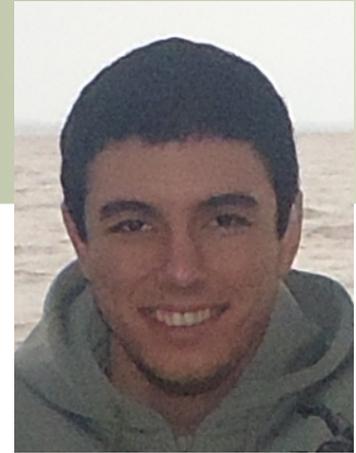
I SEMANA ACADÊMICA 2010

CEDERJ/UAB - Pólo Três Rios





QUEM SOU EU?



→ **UFF – CEDERJ/UAB Três Rios**

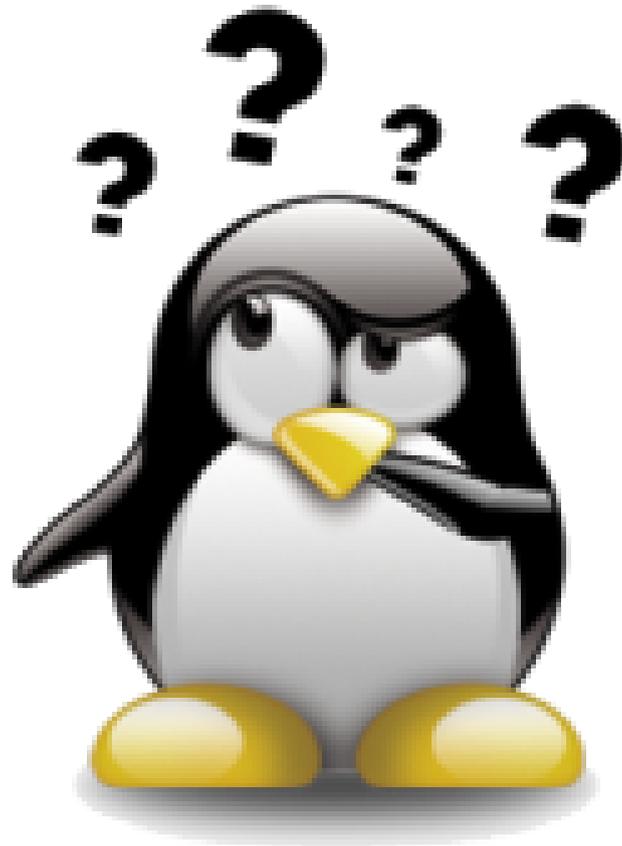
- 3º Período, Tec. em Sistemas de Computação

→ **Software Livre**

- Ativista, usuário GNU/Linux há 4 meses
- Membro da Associação Python Brasil



POR QUE SOFTWARE LIVRE?





OBJETIVOS:

Por que ...

... surgiu o Software Livre?

... usar Software Livre?

... colaborar com o Software Livre?



A HISTÓRIA

GNU/LINUX



DESENVOLVIMENTO COLABORATIVO:

→ Décadas de 50 e 60:

→ Software produzido cooperativamente pela academia e pesquisadores de grandes corporações.



DESENVOLVIMENTO COLABORATIVO:

→ Décadas de 50 e 60:

→ Software produzido cooperativamente pela academia e pesquisadores de grandes corporações.

→ Década de 70:

→ Richard Stallman (RMS), programador do laboratório de IA do MIT, torna-se líder da comunidade hacker, onde era comum o compartilhamento dos códigos-fonte;

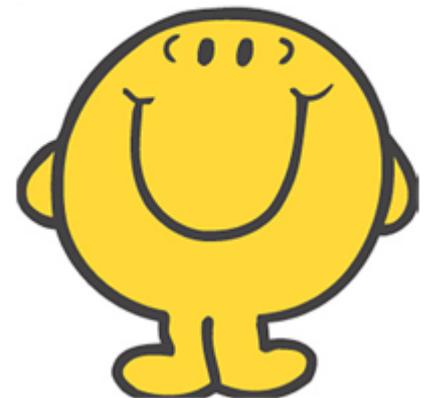




A DOAÇÃO QUE MUDOU A HISTÓRIA:

→ MIT recebe doação de uma impressora laser que substitui a impressora matricial;

DONATE
YOU MOTHER F*CKER

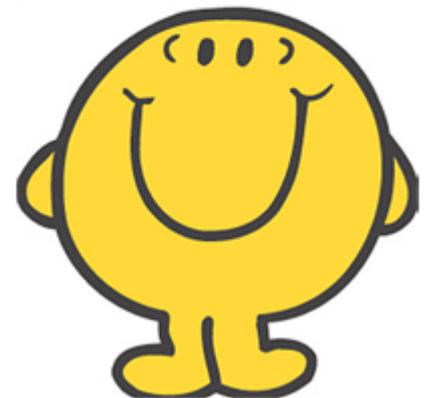




A DOAÇÃO QUE MUDOU A HISTÓRIA:

- MIT recebe doação de uma impressora laser que substitui a impressora matricial;
- RMS negocia a inserção de facilidades na nova impressora, contudo considera a proposta do representante da mesma uma agressão à liberdade.

DONATE
YOU MOTHER F*CKER





ASAS À LIBERDADE:

→ Década de 80:

- Em 1984, RMS inicia o **Projeto GNU**, com o objetivo de criar um sistema operacional totalmente livre;





ASAS À LIBERDADE:

→ Década de 80:

→ Em 1984, RMS inicia o **Projeto GNU**, com o objetivo de criar um sistema operacional totalmente livre;

→ No ano seguinte, ele funda a **Free Software Foundation**, com o objetivo de eliminar as restrições sobre a cópia, redistribuição, estudo e modificação de softwares através de licenças como a **GPL**.



FREE SOFTWARE
F O U N D A T I O N



AS **4** LIBERDADES



AS 4 LIBERDADES:

Liberdade nº 0

Executar o programa
independente do propósito.



AS 4 LIBERDADES:

Liberdade nº 1

Estudar como o
programa funciona e adaptá-lo às
suas necessidades.



AS 4 LIBERDADES:

Liberdade nº 2

Distribuir cópias,
tanto gratuitas quanto vendidas.



AS 4 LIBERDADES:

Liberdade nº 3

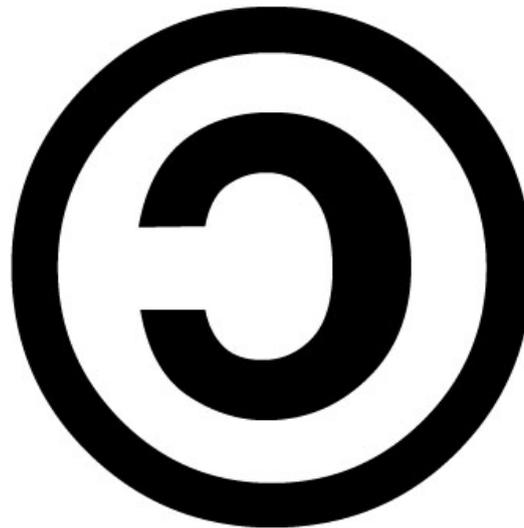
Melhorar o programa
e liberar seus aperfeiçoamentos.



CÓPIA PERMITIDA:

→ RMS idealiza:

- O possuidor do código livre só teria os seus quatro direitos se o código que ele distribuísse também fosse livre.



Copyleft: o contrário de Copyright



DESENVOLVENDO O NÚCLEO:

→ **Década de 90:**

- Necessidade de um kernel que se adequava ao projeto, devido ao atraso do GNU Hurd;



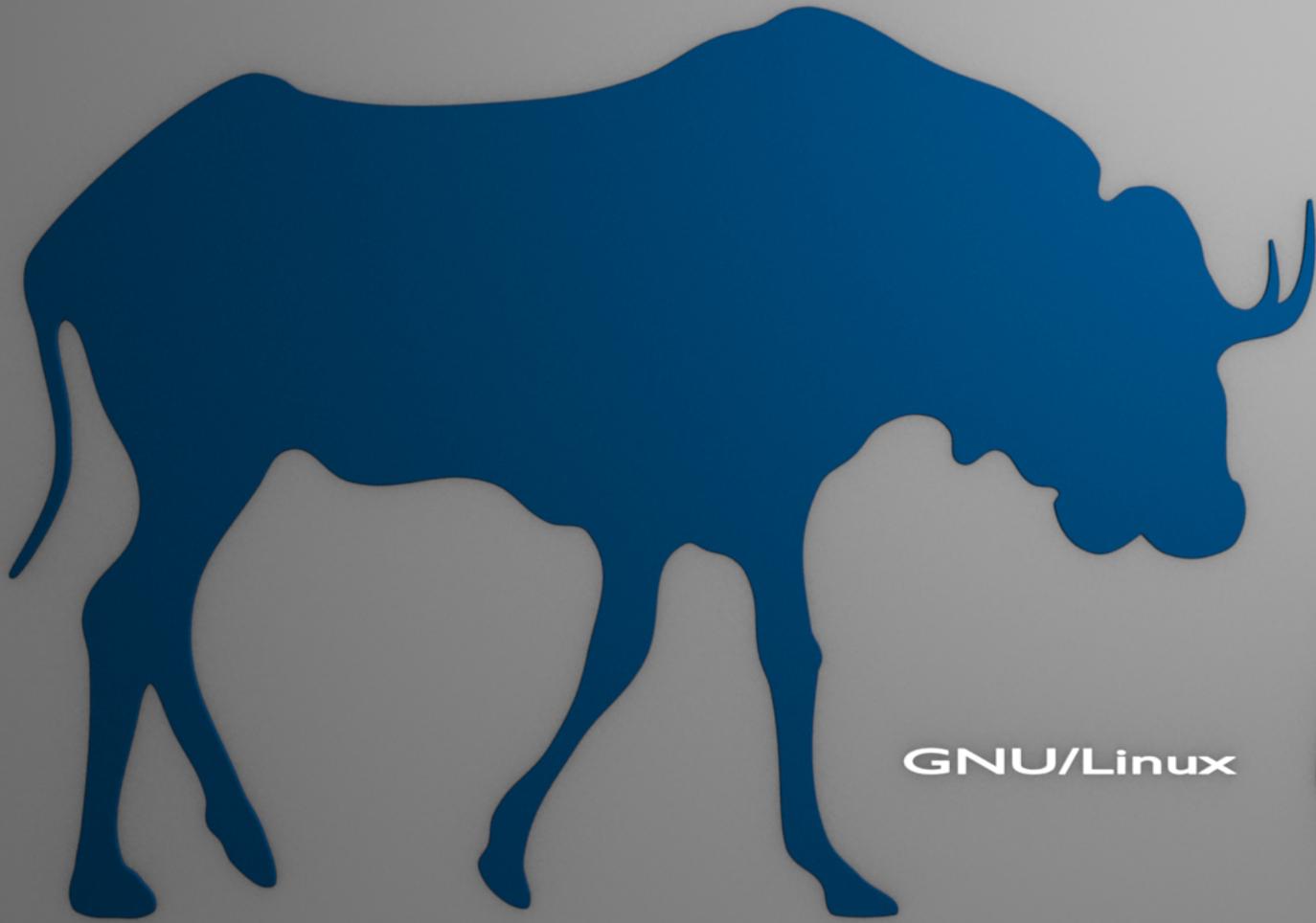
LINUS E O LINUX:

→ Década de 90:

- Necessidade de um kernel que se adequava ao projeto, devido ao atraso do GNU Hurd;
- Em 1992, Linus Torvalds publica o kernel **Linux** nas condições GPL, sem mesmo conhecer RMS, a FSF e o Projeto GNU;



Tux – mascote do Linux



GNU/Linux





NOS DIAS ATUAIS:



ubuntu



SUSE



Mandriva



fedora



KNOPPIX



MEPIS



redhat



solaris



gentoo linux



PCLinuxOS



Novell



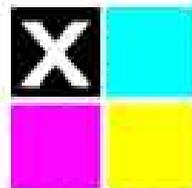
FreeBSD



xandros



LUNAR



aurox



slackware



kubuntu



Vector



KANOTIX



CentOS



debian



slax



aLinux



xubuntu



ADOTANDO O SOFTWARE LIVRE



QUANTO É?

→ **Baixo custo de implementação:**

→ Redistribui riqueza, emprego, renda e conhecimento.





CONHECIMENTO:

→ Programas e códigos-fonte disponíveis:

- Estudar o programa e adaptá-lo;
- Dinâmica geração e compartilhamento de conhecimento.



VIVA A LIBERDADE





DISTRIBUIÇÕES



DEBIAN:

- Lançado há 17 anos;
- Mantido por um grupo de voluntários à volta do mundo.



debian

- Pasta Pessoal
- ipod
- L&O

System information dashboard with various gauges and status indicators.

- 2%
- 483 MB / 77 MB
- Free: 12%
- 0 MB / 0 MB
- Alto ha mails: 2 emails
- Domingo 05.2.2006
- Optima: 64 01:37

Weather widget showing current conditions and a 5-day forecast.

12°C
R: 100%
H: 41%
W: 100%
14 km/h

Fair

Sabes	Man:	Tue:	Wed:	Thu:
6/12	5/12	5/12	6/12	7/12



Gimp





FEDORA:

- Criada pela Red Hat, e atualmente mantida pelo Projeto Fedora;
- Desktop e Servidor.

fedora^f

Google

Foursquare fica fora do ar por 11 horas
INFO Online - Pl... 17 mins ago

Certidão de nascimento será emitida online
INFO Online - Pl... 56 mins ago

Jovens americanos preferem Jobs a Zucker...
INFO Online - Plant... 1 hr ago

Americano e japonês levam Nobel de química
INFO Online - Plant... 2 hrs ago

Blog: Microsoft lança Windows Phone 7 dia 11
INFO Online - Pla... 14 hrs ago

MR investiga facilidade suspeita de falsificar c...
O GLOBO - Ulti... 15 mins ago

Fluminense recebe o Santos no Engenhão
O GLOBO - Ulti... 21 mins ago

Sem Titi, barrado, Vasco encara o Atlétic...
O GLOBO - Ulti... 21 mins ago

Botafogo enfrenta o Guarani em Campinas
O GLOBO - Ulti... 22 mins ago

Aprenda com quem sabe. Primeiros coloca...
O GLOBO - Ulti... 25 mins ago

Bombeiros controlam

Qua 6/10

AM 10:18

Out 2010

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

H 27°C CL 16°C

16°C

Porto Alegre



10:18:13
quarta 06-10-2010

diego@fedora
Fedora 13 (Goddard)
kernel:
2.6.34.7-56.fc13.i686.PAE
Intel(R) Pentium(R) 4 CPU
3.00GHz

CPU 1	CPU 2
2.0%	1.0%

Load : 0.32,0.7,0.45
Ram 25%
Swap 0%

IP :
Upload - 0.0 KB/sec
Download - 0.0 KB/sec

/dev/sda3	33%
/dev/sda1	18%
/dev/sda2	8%

COMMAND	USER	%CPU
python	diego	20.5
opera	diego	3.2
gnome-screensho	diego	2.5
Xorg	root	2.1
operapluginwrap	diego	1.3
ailurus	diego	1.3
ggl-gtk	diego	1.1
nautilus	diego	0.3
gnome-panel	diego	0.2

Uptime: 1:10



UBUNTU:

'humanidade com os outros'

Ideologia baseada nas liberdades do SL e no trabalho de desenvolvimento comunitário.

- 1º lugar no Distrowatch;
- 12 milhões de computadores com Ubuntu no mundo.

ubuntu 



Computador



Pasta pessoal de winkler



Servidores de rede



Dados



Sistema de arquivos de 52 GB



Lixeira

apt-get install ubuntu



Sign in to Gmail with your **Google Account**

Username

Password

- Aprenda a comparar e sincronizar pastas no ...**
[KeroDicas - In...](#) 5 mins ago
- Problema com som no Sony Vaio vpcea24fm -...**
[Viva o Linux](#) 25 mins ago
- Tema 28 - GnomishBeige**
[Ubuntued](#) 8 hrs ago
- XLSInjector - Saiba como injetar um Shell ...**
[Segurança Linux](#) Jun 23



LINGUAGENS LIVRES



PROGRAMAÇÃO:

→ Erlang

→ Java

→ JavaScript

→ Lua

→ Perl

→ PHP

→ Python

→ Ruby



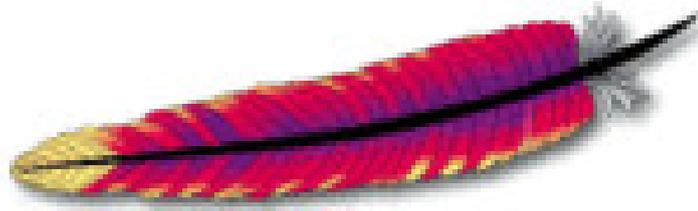


ALTERNATIVAS AO SOFTWARE PROPRIETÁRIO



SERVIDOR WEB:

APACHE
HTTP SERVER



66% dos milhões de sites mais movimentados.



NAVEGADOR:



Aproximadamente 500 milhões de pessoas utilizam.



LEITOR DE E-MAIL:



E-mail, News e acesso a RSS Feeds.



GERENCIADOR DE CONTEÚDO (CMS):





SUÍTE PARA ESCRITÓRIO:



 **Br Office.org**



DESENHO VETORIAL:

screenshot.svg - Inkscape

File Edit View Layer Object Path Text Help

Document Preferences (Shift+ Ctrl+ D)

Page Grid Guides Metadata

Background (also for export)

Show canvas border

Border on top of drawing

Border color

Fill and Stroke (Shift+ Ctrl+ F)

Fill Stroke paint Stroke style

Flat color

RGB HSV CMYK Wheel

H 0

S 0

V 0

A 30

RGBA: 0000001e

Fill: winding

Master opacity 1.00

112% 31.3, 250.1 (root) Path (331 nodes). Click selection to toggle scale/rotation handles.

Applications Computer gaim (2) inkscape (2) 1:49 AM



EDITORACÃO ELETRÔNICA:

The screenshot displays the Scribus desktop publishing software interface. The main workspace shows a page layout with a large 'Scribus' logo in red and black, a blue header with a fountain pen, and two columns of placeholder text. The interface includes a menu bar, a toolbar, a ruler, and a Properties panel on the right.

Menu Bar: Scribus File Edit Style Item Insert Page View Tools Extras Windows Help

Toolbar: Includes icons for file operations (Save, Print, Copy, Paste), editing (Undo, Redo, Cut, Paste), and drawing tools (Text, Image, Line, Rectangle, Ellipse, Polygon, Star, Arrow, Lasso, Eraser, Fill, Stroke).

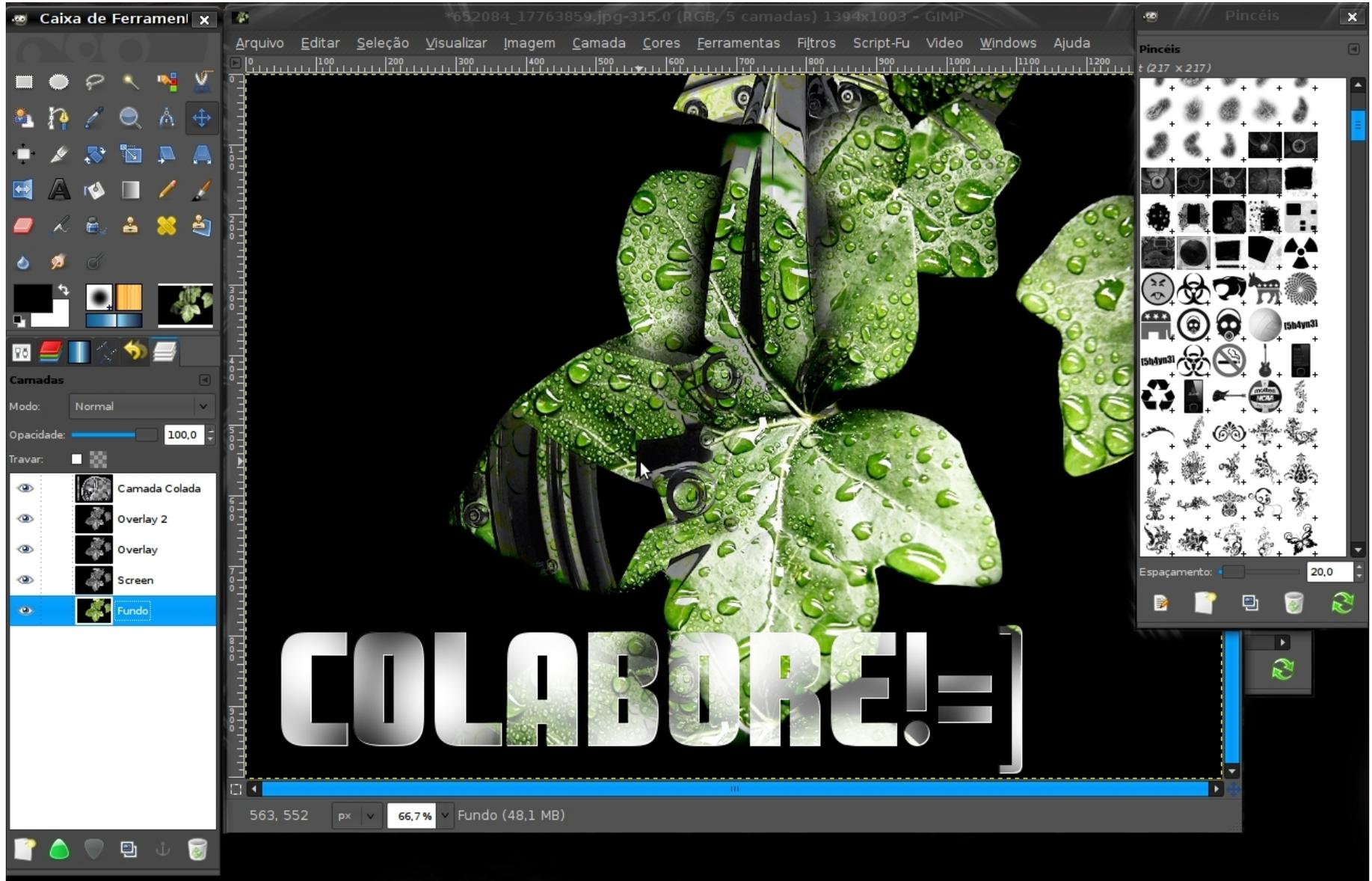
Properties Panel:

- X, Y, Z:** Position coordinates.
- Shape:** Selection tool.
- Text:**
 - Font: Lucida Grande Regular
 - Size: 12.0 pt
 - Line Spacing: 14.4 pt
 - Leading: 100.0 %
 - Color: Black
 - Style: Drop caps
 - Language: English
- Image:** Selection tool.
- Line:** Selection tool.
- Colors:** Selection tool.

Page Information: Page 2 of 2, Background, X-Pos: 66.439 mm, Y-Pos: 182.268 mm



BITMAP:





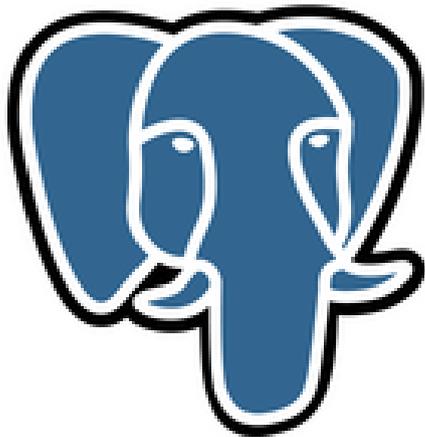
MODELAGEM TRIDIMENSIONAL:





BANCO DE DADOS:

PostgreSQL





DESENVOLVIMENTO WEB:

The screenshot shows the Quanta web development editor interface. The title bar indicates the current file is `file:///usr/local/data/development/kdewebdev.org/public_html/donate.php`. The menu bar includes File, Edit, View, Bookmarks, Project, Debug, Toolbars, DTD, Tags, Plugins, Tools, Window, Settings, and Help. The toolbar contains various icons for file operations and editing.

The Project Files pane on the left shows a tree structure for the `kdewebdev-all` project. The `public_html` folder is expanded, showing subfolders like `css`, `docs`, `images`, and `include`. The `include` folder contains several PHP files, with `left.inc.php` selected. The description for `left.inc.php` is "Left area menus".

The main editor area displays HTML code for the `donate.php` file. The code includes a header bar, a main heading, and a paragraph of text. The code is as follows:

```
<div class="inMain hatch">
  <!-- content header bar -->
  <div class="mainHead">Welcome to KDE Web Dev</div>
  <dl>
    <dt>.....
  </dt>
  <h2>Support Quanta using PayPal </h2>
  <h3>New <A href="#egold">e-gold</A> optio|
  </h3>
  <p><b><span class="firstchar">Y</span>our contribution
  makes a
  difference.</b> The Quanta project incurs real expense
  sponsoring full and part time developers who can work
  for substantially lower costs. This has made a huge
  difference in what we have delivered. We </p><!-- also have
```

The status bar at the bottom right shows "Line: 38 Col: 42".



PLATAFORMA DE DESENVOLVIMENTO:



NetBeans



REPRODUÇÃO DE ÁUDIO:

Muse - Falling Down :: Amarok 2

Amarok Playlist Tools Settings Help

0:44 -3:49

Ampache (Amarok)
Use Amarok as a seamless frontend to your Ampache server!

Cool Streams
List of some high quality radio streams

Jamendo.com
A site where artists can showcase their creations to the world

Last.fm
Last.fm: The social music revolution.

Librivox.org
Search for books from Librivox

Magnatune.com
The friendly record company with the motto "We are not evil!"

MP3tunes.com
The MP3tunes Locker: Your Music Everywhere!

OpmlDirectory

Falling Down 0
Muse 0
Showbiz 0

★★★★☆

Falling Down by Muse

I'm falling down
And fifteen thousand people scream
They were all begging for your dream
I'm falling down
Five thousand houses burning down
No-one is gonna save this town

Too late
I already found what I was looking for
You know it wasn't here
No it wasn't here

I was calling your name
But you would never hear me sing
You wouldn't let me begin
So I'm crawling away
'Cause you broke my heart in two, yeah
No, I will not forget you

Too late
I already found what I was looking for
You know it wasn't you

Falling Down 4:33
Muse Showbiz
What Happens Now? 8:25
Porcupine Tree Nil Recurring

In Absentia
Porcupine Tree

1 - Blackest Eyes.mp3 4:23
2 - Trains.mp3 5:56
3 - Lips of Ashes.mp3 4:39
4 - The Sound of Muzak.mp3 4:59
5 - Gravity Eyelids.mp3 7:56
6 - Wedding Nails.mp3 6:33
7 - Prodigal.mp3 5:32
8 - Dot 3.mp3 5:25
9 - The Creator Has a Mastertape.m 5:21
10 - Heartattack in a Layby.mp3 4:15
11 - Strip the Soul.mp3 7:21
12 - Collapse the Light Into Earth. 5:52

I Dont Know What Im Doing
Brad Sucks

1 - Making Me Nervous 2:37
2 - Look And Feel Years Younger 4:38
3 - Fixing My Brain 3:58
4 - Bad Attraction 3:14
5 - Sick As A Dog 3:14
6 - Borderline 3:14

Playing: **Falling Down** by **Muse** on **Showbiz** from **Last.fm** (4:33) 26 tracks (1:57:04)



EDIÇÃO DE ÁUDIO:



The screenshot displays the Audacity audio editing software interface. The window title is "Moonglow". The top toolbar includes icons for selection, zoom, pan, undo, redo, and various playback controls (stop, play, record, pause, solo, mute). Below the toolbar is a volume control slider and a microphone icon. The main workspace shows two tracks of audio data, both labeled "Moonglow". The left track is selected. The audio is represented by blue waveforms on a scale from -1.0 to 1.0. The time axis at the bottom shows markers at 40, 45, 50, 55, and 1:00. The status bar at the bottom indicates "Project rate: 44100" and "Cursor: 0:00.000000 min:sec [Snap-To Off]".



REPRODUÇÃO DE VÍDEO:





EDIÇÃO DE VÍDEO:

Applications Places System Donald 66 °F Tue Aug 5, 10:57 PM

Cinelerra: 2nd Pass.avi

Cinelerra: Compositor

Cinelerra: Program

File Edit Keyframes Audio Video Tracks Settings View Window

0:04:18.791

0:03:43.914 16 64 Audio Fade: -80.0 to 6.0 0:04:18.791 0:00:00.000 0:04:18.791

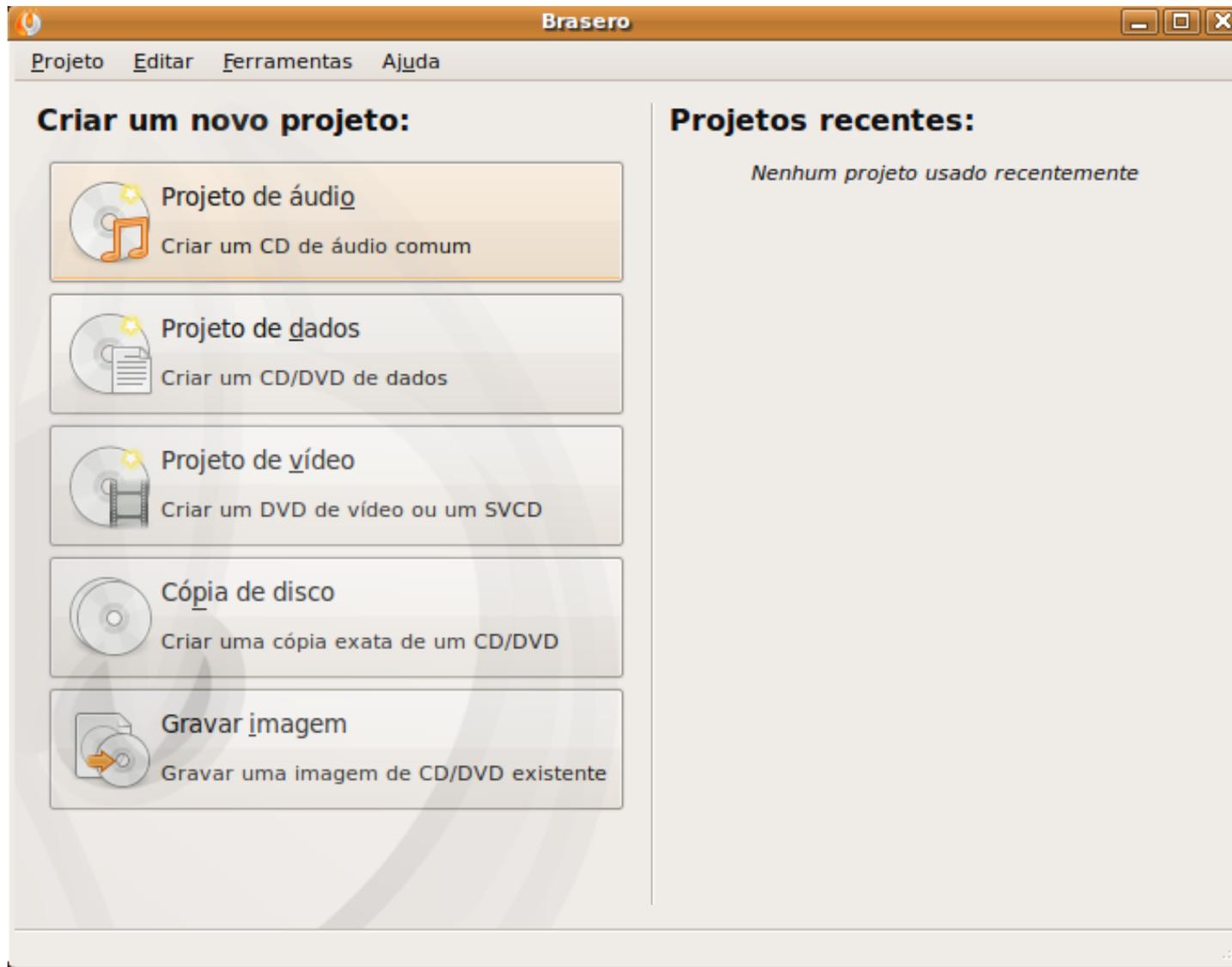
Welcome to Cinelerra.

98 Items

Detailed description: The image shows a Linux desktop environment with a purple theme. At the top, there are two cartoon avatars: a brown bull-like creature and a penguin. The main focus is the Cinelerra video editing software interface. It is divided into several windows: 'Cinelerra: 2nd Pass.avi' (a preview window showing a scene with three people), 'Cinelerra: Compositor' (a compositor window showing a close-up of hands), and 'Cinelerra: Program' (the main editing timeline). The timeline shows video and audio tracks for '2nd Pass.avi #1'. The system tray at the bottom contains various application icons, including a terminal, a file manager, and several instances of a green character icon. The system status bar at the top right shows the user 'Donald', the date 'Tue Aug 5, 10:57 PM', and the temperature '66 °F'.



GRAVAÇÃO DE CD/DVD:





PARTICIONADOR DE DISCO:

/dev/sda - GParted

GPared Edit View Device Partition Help

/dev/sda (111.79 GiB)

/dev/sda1
97.65 GiB

Device Information:
Model: WDC WD12 00UE-00KVT0
Size: 111.79 GiB
Path: /dev/sda

DiskLabelType: msdos
Heads: 255
Sectors/Track: 63
Cylinders: 14593
Total Sectors: 234436545

Partition	Filesystem	Mountpoint	Size	Used	Flags
/dev/sda1	ext2	/media/disk-2	97.65 GiB		
unallocated	unallocated				
/dev/sda3	xfs		431.25 MiB		
unallocated	unallocated				
▼ /dev/sda2	extended		7.18 GiB		
/dev/sda5	fat32		26.58 MiB		
New Partition #1	reiser4		5.06 GiB		
unallocated	unallocated				
/dev/sda4	reiser4		541.25 MiB	130.50 KiB	

Create Logical Partition #1 (reiser4, 5.06 GiB) on /dev/sda

1 operation pending

Format to menu:
ext2
ext3
fat16
fat32
hfs
hfs+
jfs
linux-swap
ntfs
reiser4
reiserfs
ufs
xfs



VIRTUALIZAÇÃO:

The screenshot displays a virtual machine desktop environment with four main windows:

- JPetStore Demo - Konqueror:** A web browser window showing the JPetStore 4 demo page. The address bar contains `http://venus:8080/jpetstore/`. The page features a search bar, a "Welcome to JPetStore 4" message, and a "Enter the Store" link. Logos for Ibatis, PostgreSQL, Tomcat, NetBSD, and Xen are visible at the bottom.
- VNC: root's X desktop (venus:1):** A window showing the Tomcat Web Application Manager interface. The address bar contains `http://venus:8080/manager/html`. The page displays a "Message: OK" and a "Manager" section with links for "List Applications", "HTML Manager Help", "Manager Help", and "Server Status".
- Befehlsfenster (Systemverwaltungsmodus) - Konsole:** A terminal window showing system statistics for Xen domains. The output includes a table with columns for Id, Domain, Cpu-%, CpuSecs, MemMB, Mem-%, Cpu#, State, TotalCpu, lmin, and 5ml.
- VNC: root's X desktop (mars:1):** A terminal window showing a PostgreSQL database console. It displays a "List of relations" table and the results of a query: `petstore=# select * from signon;`

Id	Domain	Cpu-%	CpuSecs	MemMB	Mem-%	Cpu#	State	TotalCpu	lmin	5ml
0	Domain-0	11.4%	0.80	127	8%	0	r----	1m30s		
1	mars	1.4%	0.10	127	8%	0	-b---	18s		
2	merkur	0.0%	0.00	127	8%	0	-b---	1s		
3	saturn	0.0%	0.00	511	34%	0	-b---	1s		
4	venus	0.0%	0.00	511	34%	0	-b---	28s		

Schema	Name	Type	Owner
public	account	table	postgres
public	bannerdata	table	postgres
public	category	table	postgres
public	inventory	table	postgres
public	item	table	postgres
public	lineitem	table	postgres
public	orders	table	postgres
public	orderstatus	table	postgres
public	product	table	postgres
public	profile	table	postgres
public	sequence	table	postgres
public	signon	table	postgres
public	supplier	table	postgres

```
petstore=# select * from signon;
-----
j2ee      | j2ee
ACID     | ACID
test     | test
(3 rows)

petstore=#
```



TELEFONIA (VoIP):

The screenshot displays the Asterisk GUI configuration interface in a web browser. The browser address bar shows the URL `http://172.16.1.34/config/cfgbasic.html`. The page title is "Asterisk GUI (Beta) -- Home". The main content area is titled "Asterisk™ Configuration Engine" and includes a login form with fields for "Username:" and "Password:", and "Login" and "Logout" buttons. A sidebar on the left contains a navigation menu with items like "Users", "Conferencing", "Voicemail", "Call Queues", "Service Providers", "Calling Rules", "Incoming Calls", "Voice Menus", "Record a Menu", "Active Channels", "System Info", "Backup", and "Options".

Overlaid on the right side of the GUI is a terminal window titled "Asterisk Console on 'appletv' (pid 384) -- ssh -- 86x45". The terminal output shows the Asterisk startup process, including extension loading and configuration parsing. Key log entries include:

```
Added extension '1' priority 1 to demo
Added extension '500' priority 1 to demo
Added extension '500' priority 2 to demo
Added extension '500' priority 3 to demo
Added extension '500' priority 4 to demo
Added extension '600' priority 1 to demo
Added extension '600' priority 2 to demo
Added extension '600' priority 3 to demo
Added extension '600' priority 4 to demo
Added extension '76245' priority 1 to demo
Added extension '7000' priority 1 to demo
Added extension '7999' priority 1 to demo
Added extension '7999' priority 2 to demo
Added extension '8500' priority 1 to demo
Added extension '8500' priority 2 to demo
Registered extension context 'page'.
Added extension '_X.' priority 1 to page
Registered extension context 'default'.
Including context 'demo' in context 'default'.
Parsing '/etc/asterisk/users.conf': Found
[Mar 29 00:52:41] WARNING[384]: pbx.c:6235 ast_context_verify_includes: Context 'ael-l
ocal' tries includes nonexistent context 'ael-parkedcalls'
[Mar 29 00:52:41] WARNING[384]: pbx.c:6235 ast_context_verify_includes: Context 'ael-d
undi-e164-local' tries includes nonexistent context 'ael-dundi-e164-canonical'
[Mar 29 00:52:41] WARNING[384]: pbx.c:6235 ast_context_verify_includes: Context 'ael-d
undi-e164-local' tries includes nonexistent context 'ael-dundi-e164-customers'
[Mar 29 00:52:41] WARNING[384]: pbx.c:6235 ast_context_verify_includes: Context 'ael-d
undi-e164-local' tries includes nonexistent context 'ael-dundi-e164-via-pstn'
pbx_config.so => (Text Extension Configuration)
Parsing '/etc/asterisk/dundi.conf': Found
Using TOS bits 0
DUNDI Ready and Listening on 0.0.0.0 port 4520
Registered custom function DUNDILOOKUP
pbx_dundi.so => (Distributed Universal Number Discovery (DUNDI))
pbx_loopback.so => (Loopback Switch)
pbx_realtime.so => (Realtime Switch)
pbx_spool.so => (Outgoing Spool Support)
Registered application 'DeadAGI'
Registered application 'EAGI'
Registered application 'AGI'
res_agi.so => (Asterisk Gateway Interface (AGI))
res_clioriginate.so => (Call origination from the CLI)
res_convert.so => (File format conversion CLI command)
Asterisk Ready.
*CLI>
```



COLABORANDO COM O SOFTWARE LIVRE



METAS:

- Eliminação do analfabetismo tecnológico;
- Estado - incentivo e promoção da sociedade com software livre;
- Solidificação de princípios.





FORMAS DE COLABORAÇÃO:

- Documentação;**
- Tradução;**
- Desenvolvimento;**
- Suporte;**
- Divulgação;**
- Doação;**



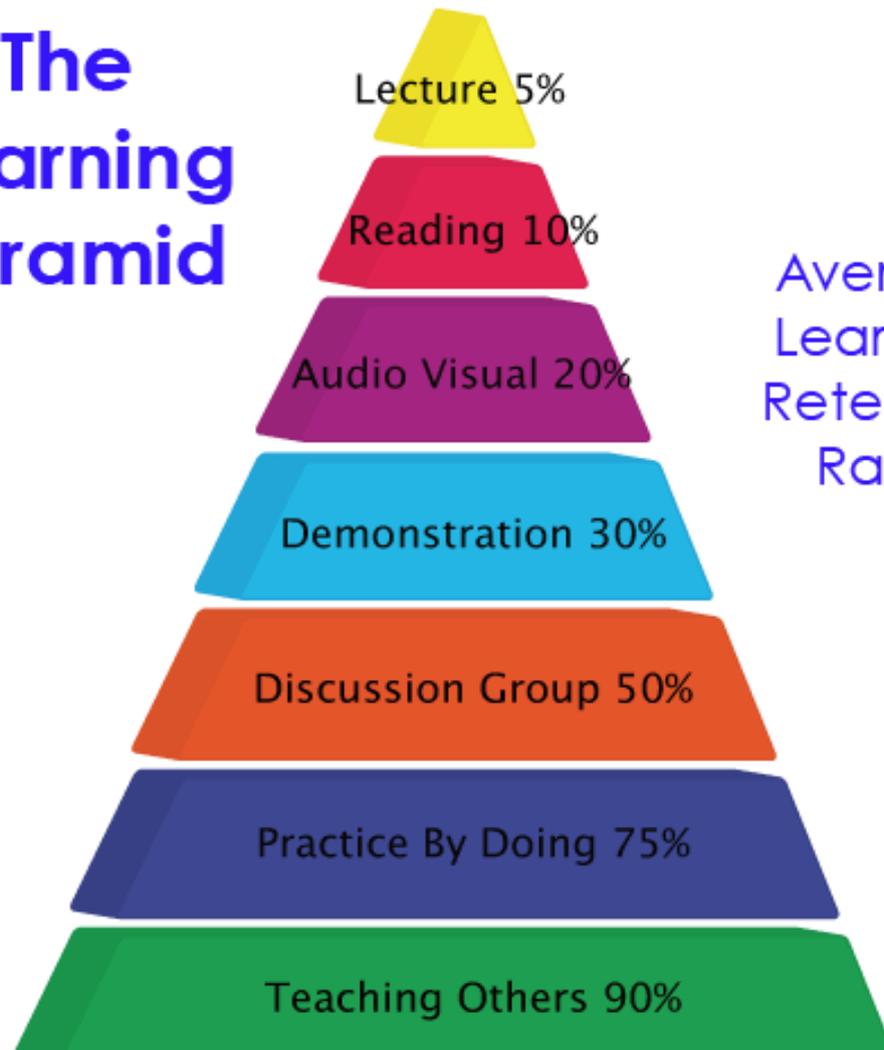
A UNIÃO QUE FAZ A DIFERENÇA:





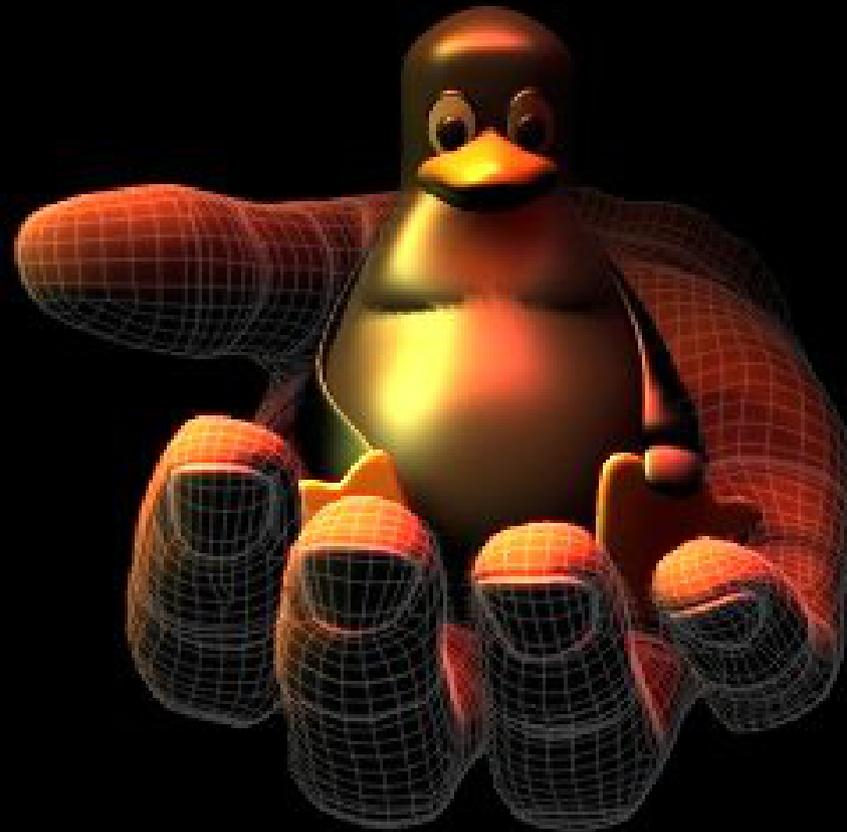
APRENDIZADO:

The Learning Pyramid



Average Learning Retention Rates

Adapted from NTL Institute for Applied Behavioral Science



Linux

"Colaborar atrai amigos,
competir atrai inimigos ..."

Cabelo



QUEM USA SOFTWARE LIVRE?

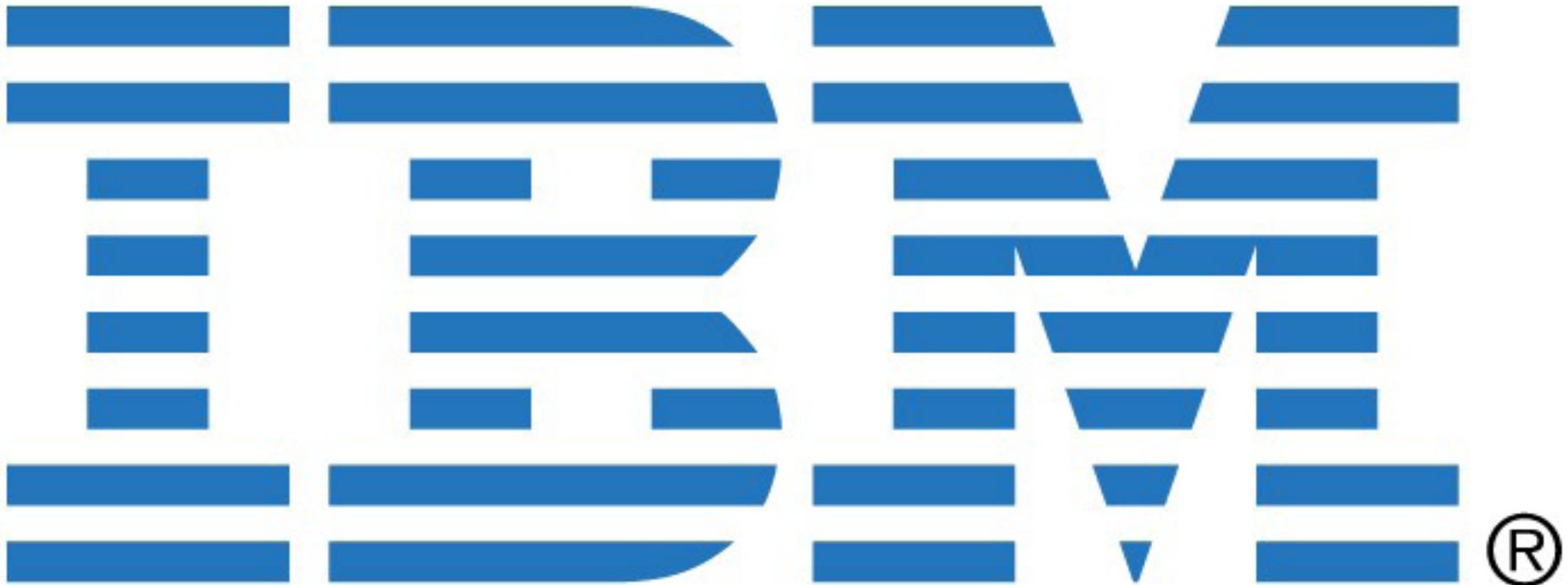


GOOGLE:

GOOgle™



IBM:



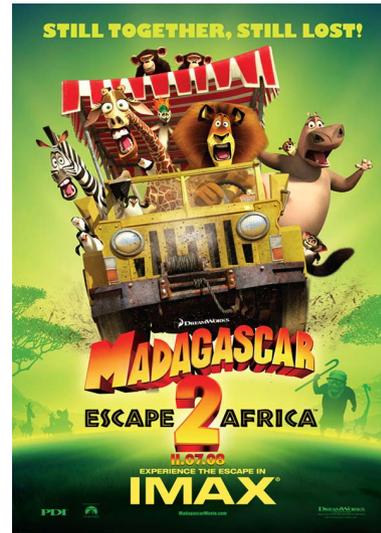


DREAMWORKS:





INDÚSTRIA CINEMATOGRAFICA:





PETROBRAS:



PETROBRAS



CAIXA ECONÔMICA FEDERAL:

CAIXA



GLOBO:





PERSONALIDADES DO SOFTWARE LIVRE



INTERNACIONAIS:

→ Richard Matthew Stallman:

- Movimento Free Software;
- GNU;
- FSF.



→ Linus Benedict Torvalds:

- Linux;
- Linux Internacional.

→ Eric Steven Raymond:

- A Catedral e o Bazar;
- Jargon File – The Hacker's Dictionary;
- 'Havendo olhos suficientes, todos os erros são óbvios'.





INTERNACIONAIS:



→ Jon “Maddog” Hall:

→ Linux Internacional;

→ LPIC.





NACIONAIS:

→ Cláudio Ferreira Filho:

- BrOffice.org;
- Mozilla Brasil;
- PostgreSQL Brasil.



→ Sérgio Amadeu da Silveira:

- Software Livre: a luta pela liberdade do conhecimento;
- Software Livre e Inclusão Digital;
- Exclusão digital: a miséria na era da informação.



→ Carlos Eduardo Morimoto:

- Kurumin;
- Guia do Hardware.net;
- Guias Práticos: Redes; Servidores Linux; Hardware; Smartphones; Linux.





WHAT IS FREE SOFTWARE?

“**Free software**’ is a matter of liberty, not price. To understand the concept, you should think of free’ as in free speech’, not as in free beer’.”

GNU/Linux
The Soft Revolution





REFERÊNCIAS:

→ <http://www.gnu.org>

→ Projeto GNU

→ <http://softwarelivre.org>

→ Associação de Software Livre.org

→ <http://www.vivaolinux.com.br>

→ Maior comunidade Linux da América Latina

→ <http://www.revista.espiritolivre.org>

→ Publicação digital, com foco em cultura livre e educação

→ <http://comunidade.cdtc.org.br>

→ Centro de Difusão de Tecnologia e Conhecimento

→ Cursos gratuitos e de alta qualidade



PERGUNTAR NÃO OFENDE



OBRIGADO!

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Tecnologia em Sistemas de Computação

“Liberdade, uma consciência que alguns já desfrutam e outros não possuem.”

Silvio Palmieri