

openSUSE @ Austrian Schools



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Nuremberg | Germany | conference.opensuse.org



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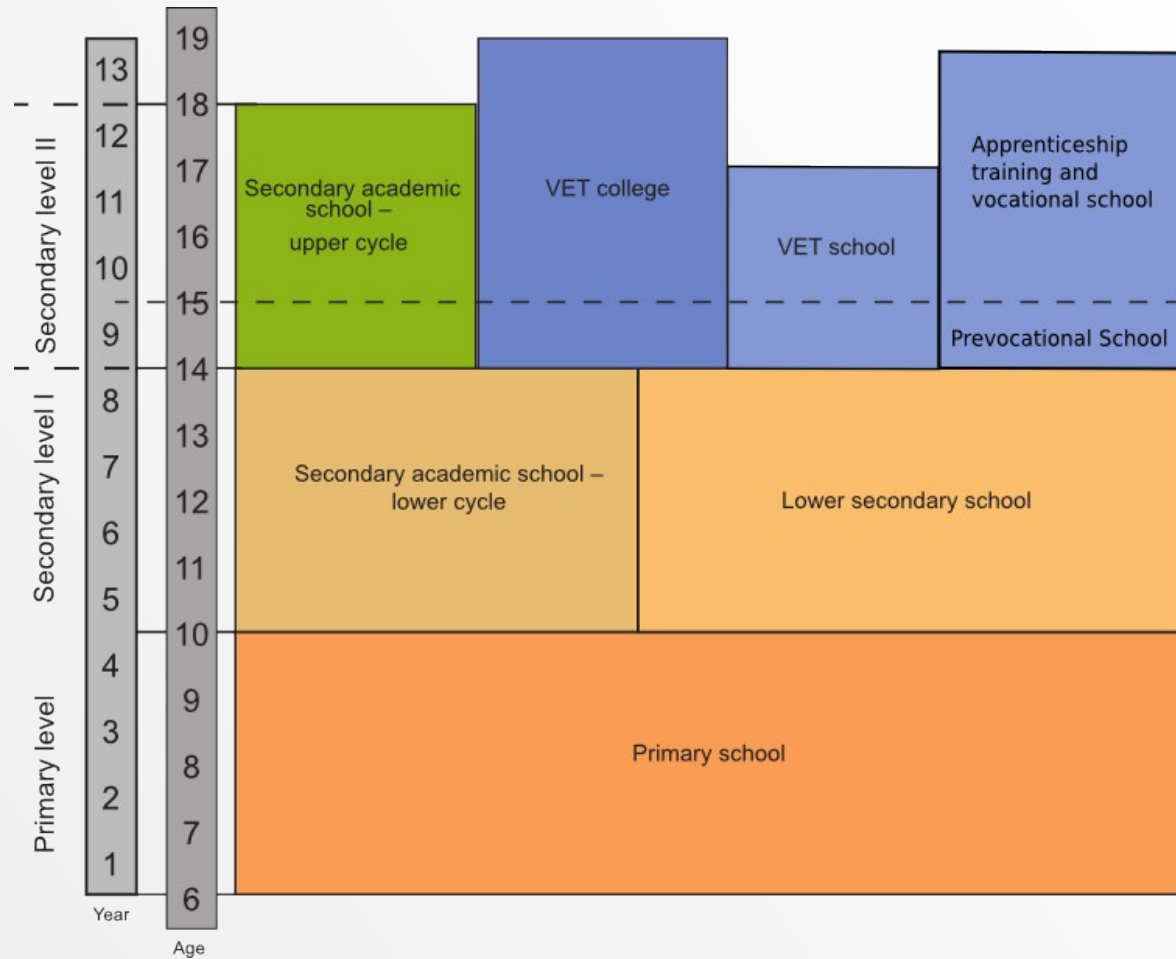
Nuremberg | Germany | conference.opensuse.org



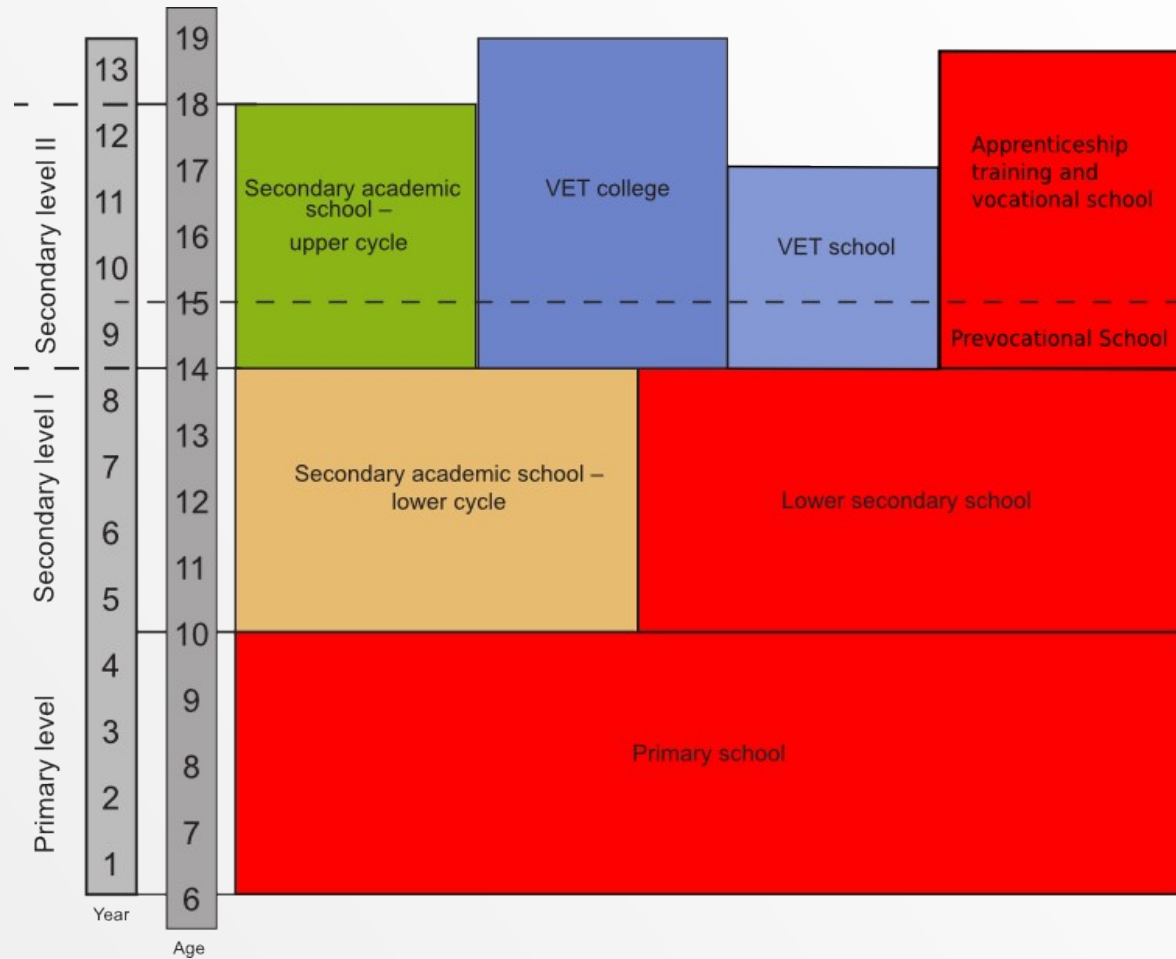
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The Austrian School System



The Austrian School System



MS-ACH

Microsoft Austrian College and High School Agreement

- only for federal government schools
- rental and upgrade licence to the latest version
 - Windows, Office, Server
- "Work-at-Home" licence for teachers and students
- annually **€ 3.000.000** → MS



But there is an alternative solution...



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desktop4education :: server4education

free software for you

desktop4education
server4education



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desktop4education :: server4education

- for all types of schools (in Austria)
- free of charge
- d4e
 - free workstation based on openSUSE using FOSS
 - for elementary schools up to secondary schools
 - easy installation from DVD or PXE
- s4e
 - Free server for schools based on openSUSE



History of d4e&s4e



History of d4e&s4e



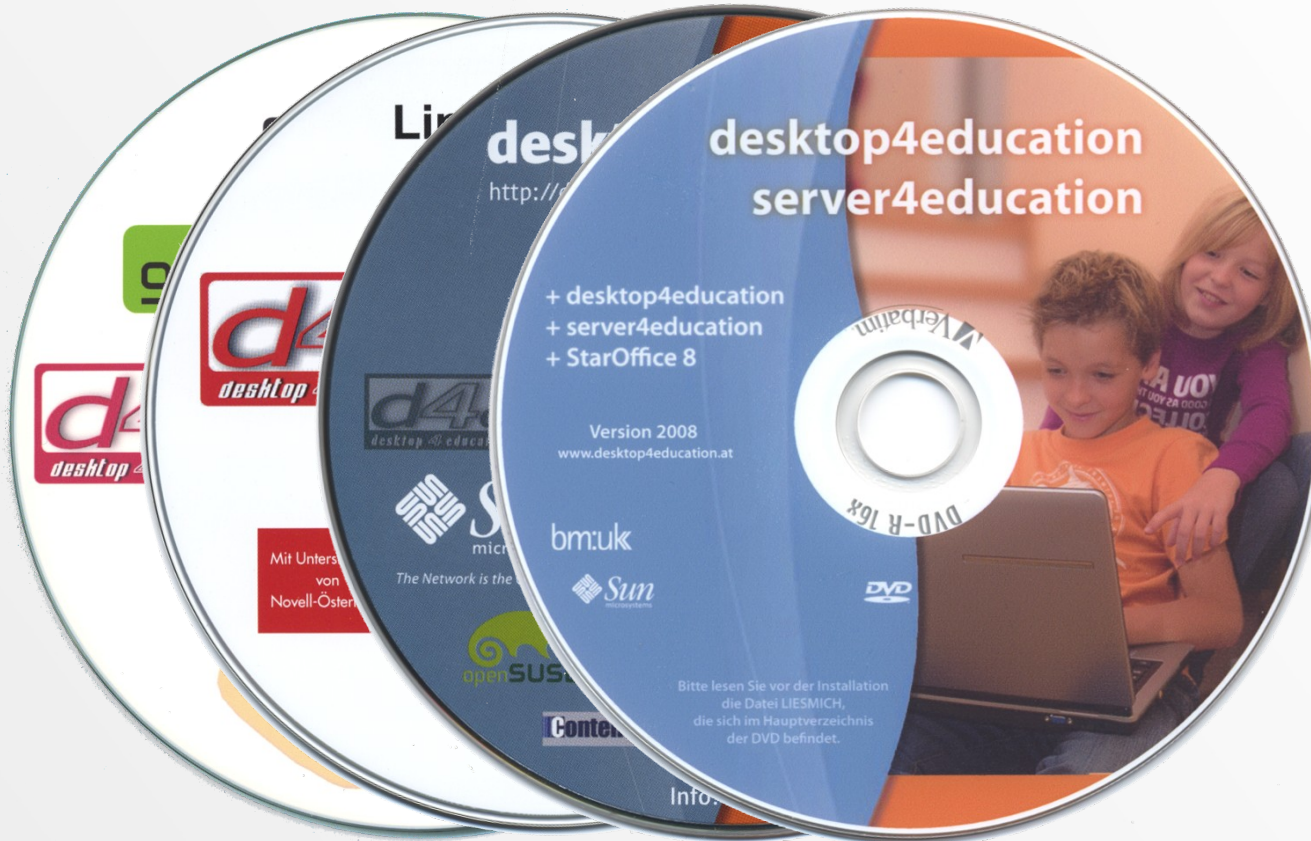
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History of d4e&s4e



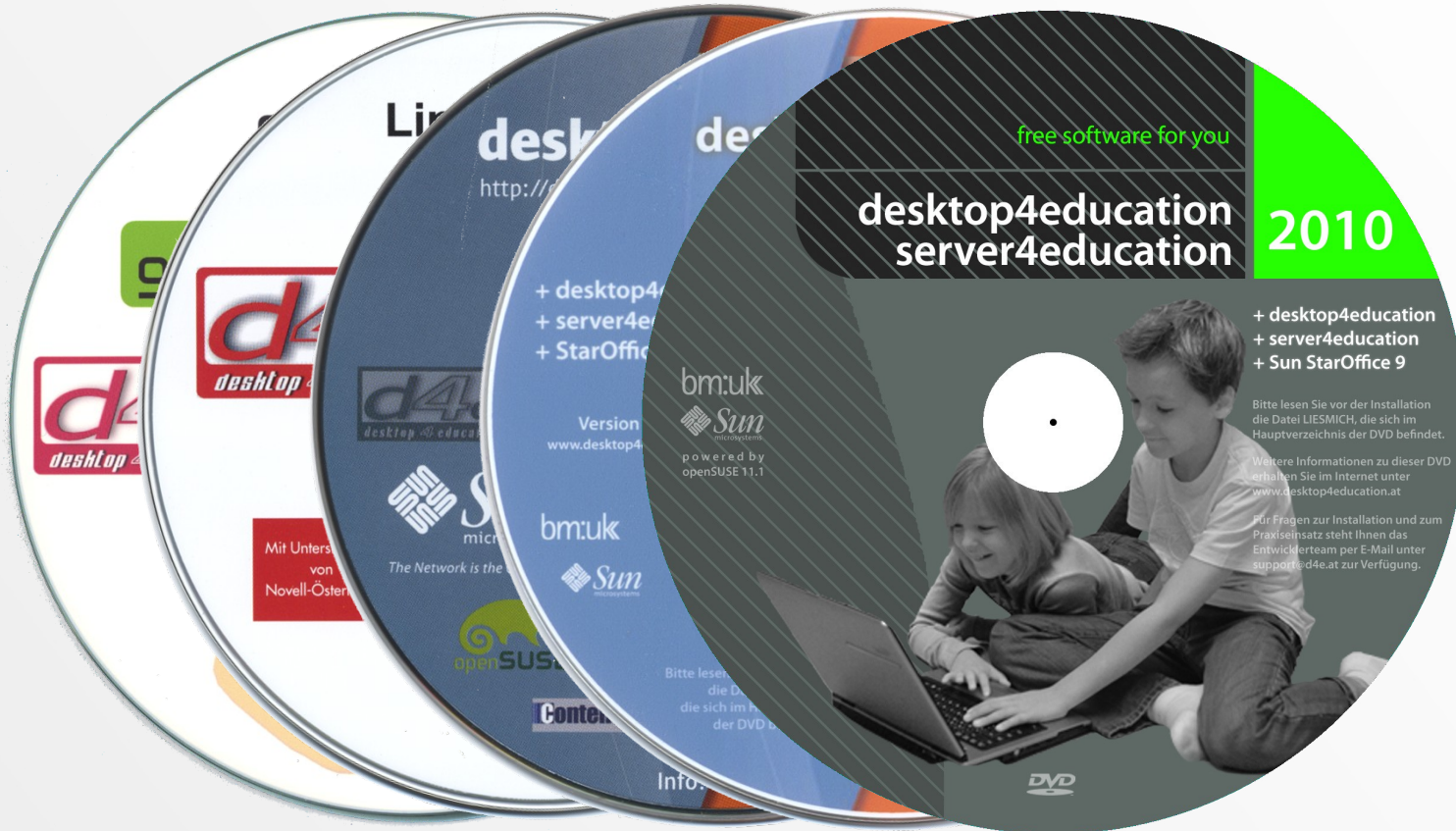
History of desktop4education



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History of d4e&s4e



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History of d4e&s4e



~15.000 DVDs



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FutureLearning

- Austrian Federal Ministry for Education
 - Europe-wide open call for tenders
- KCS - “Kompetenz Cluster Süd”

KompetenzCluster^{süd}



<http://eduservice.at>



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FutureLearning

- KCS - “Kompetenz Cluster Süd”
 - Austrian Federal Ministry for Education
 - University of Graz
 - University of Applied Sciences Joanneum
 - University of Teacher Education Styria
 - bit media – company for innovative (e)learning solutions
 - BG/BRG Weiz (school) - d4e&s4e
 - BORG Monsbergergasse (school) - n4e
 - video2brain



FutureLearning

- responsibilities:
 - at least one update for d4e & s4e every year
 - free DVD (i586 / x86_64)
 - images for VirtualBox, VMware, XEN
 - free download – <http://d4e.at>
 - installation workshops
 - FOSS training



FutureLearning

- Responsibilities
 - Hotline (Austria) - bit media
 - 0316 909191
 - support@d4e.at
 - Step by Step tutorial: <http://d4e.at>
 - companies for distribution & support – fee required
 - Weberhofer GmbH, Wien, <http://weberhofer.at>
 - ping solutions GesbR, <http://ping-solutions.at>





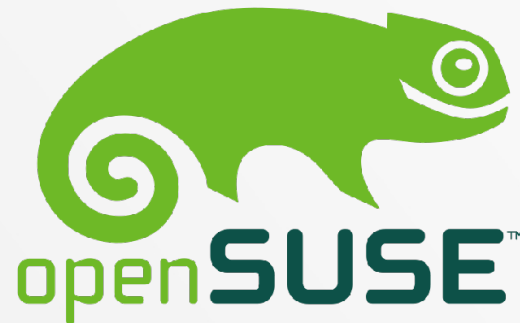
PING

professional information networks & groupware

**OPENSOURCE-SOLUTIONS CLUSTERING BACKUP RESTORE
MIGRATION OF PROPRIETARY SOLUTIONS VIRTUALIZATION
SERVER FIREWALL WORKSHOPS EMAIL ADMINISTRATION
STORAGE TERMINALSERVER GROUPWARE THINCLIENTS**

desktop4education :: server4education

Operating system



easy installation



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Boot from desktop4education DVD



Version 2011.2

- Base: openSUSE 11.4 and newer
- Linux Kernel 3.0.4
- i586 / x86_64
- More than 20 additional repos from openSUSE Build Service



Version 2011.2

- KDE 4.7 default
 - additional GNOME 2.32, LXDE 0.5.5



Version 2011.2

- Mozilla Firefox 6.0.2
- LibreOffice 3.3.4
- Samba 3.6.0



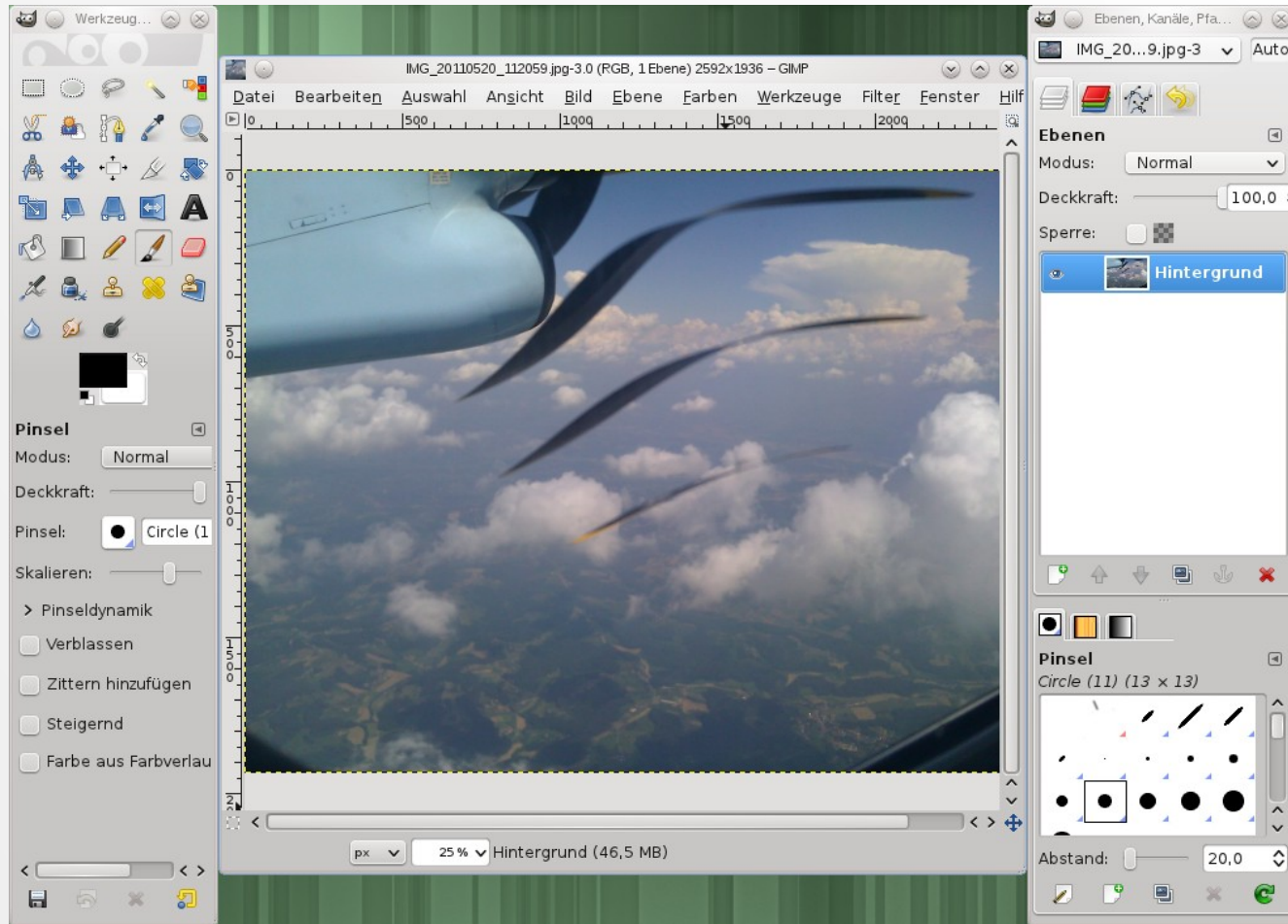
LibreOffice
The Document Foundation



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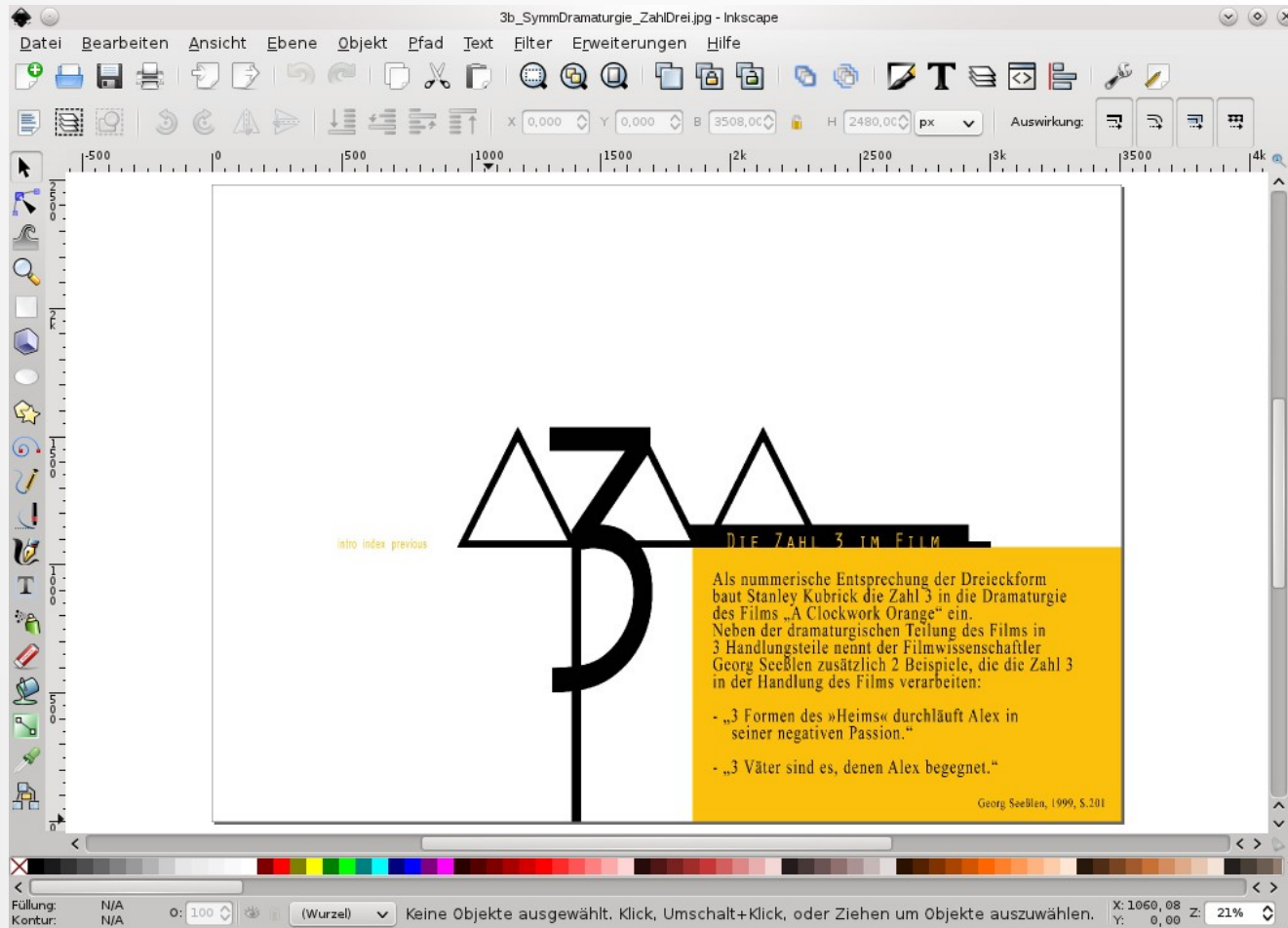
GIMP



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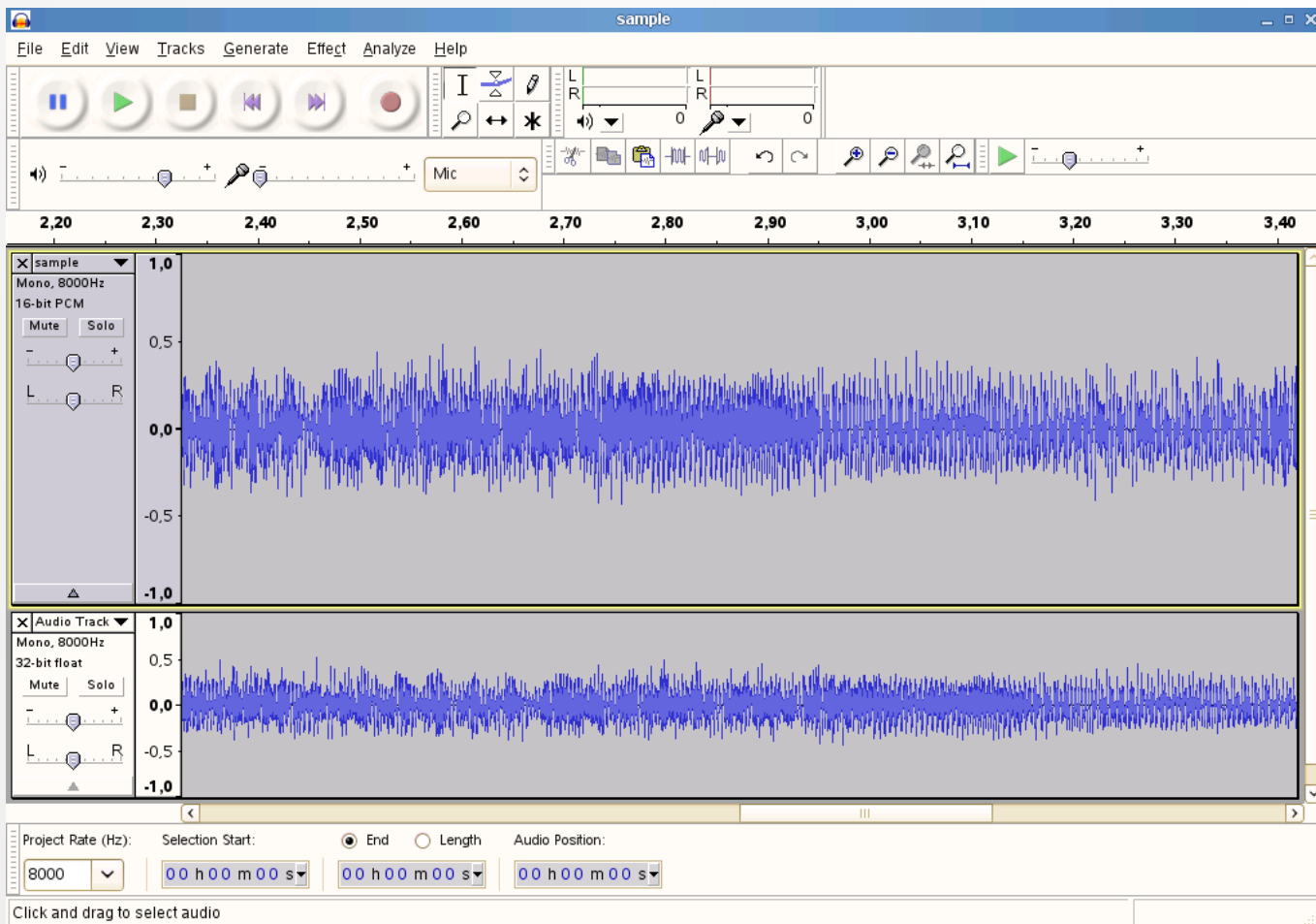
Inkscape



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Audacity



TIPPI0

The screenshot shows the TIPPI0 application window. The title bar reads "TIPPI0". The menu bar contains "TIPPI0", "Gehe zu", and "Hilfe".

The main interface is divided into several sections:

- Übungslektionen:** A list of 20 lessons. Lesson 2 (en) is selected. A mouse cursor is hovering over "Alle Zeichen" at the bottom of the list.
- Dauer der Lektion:** Two radio buttons: "Zeitlimit" (selected) and "Zeichengrenze". Below them are input fields for "5 Minuten" and "500 Zeichen".
- Reaktion auf Tippfehler:** A list of checkboxes: "Diktat blockieren" (checked), "Fehler korrigieren" (unchecked), "Akustisches Signal" (unchecked), and "Intelligenz*" (checked). A note below states: "*Aktivieren Sie diese Option, wenn die Texte der Lektion nicht in ihrer vorgesehenen Reihenfolge diktieren, sondern in Echtzeit an die Tippfehler angepasst werden sollen."
- Hilfestellungen:** A list of checkboxes: "Tastatur anzeigen" (checked), "Tasten farblich markieren" (checked), "Grundstellung markieren" (checked), "Tastpfade anzeigen" (checked), "Trennlinie anzeigen" (checked), and "Hilfetext anzeigen" (checked).

At the bottom left is the TIPPI0 logo. At the bottom right are buttons for "Beenden", "Hilfe", and "Schreibtraining starten".

The taskbar at the bottom shows the system tray with the date and time: "Sam, 16. Mai, 17:01".



wxMaxima

wxMaxima 0.7.3 [nicht gespeichert]

Datei Bearbeiten Maxima Gleichungen Algebra Rechnen Vereinfachen Plotten Numerisch Hilfe

(%i1) $\sin(\sqrt{y^2+x^2})/\sqrt{y^2+x^2}$;

(%o1) $\frac{\sin(\sqrt{y^2+x^2})}{\sqrt{y^2+x^2}}$

(%i2) $\text{wxplot3d}(\sin(\sqrt{y^2+x^2})/\sqrt{y^2+x^2}, [x,-10,10], [y,-10,10])\$$
Output file "/home/d4e/maxout.png".

(%t2)

(%i3)

Eingabe:

Vereinfachen Wurzelvereinf. Faktorisieren Expandieren Lösen... 2D Plotten...

Trigsimp Trigexpand Trigreduce Rectform Löse GDG... 3D Plotten...

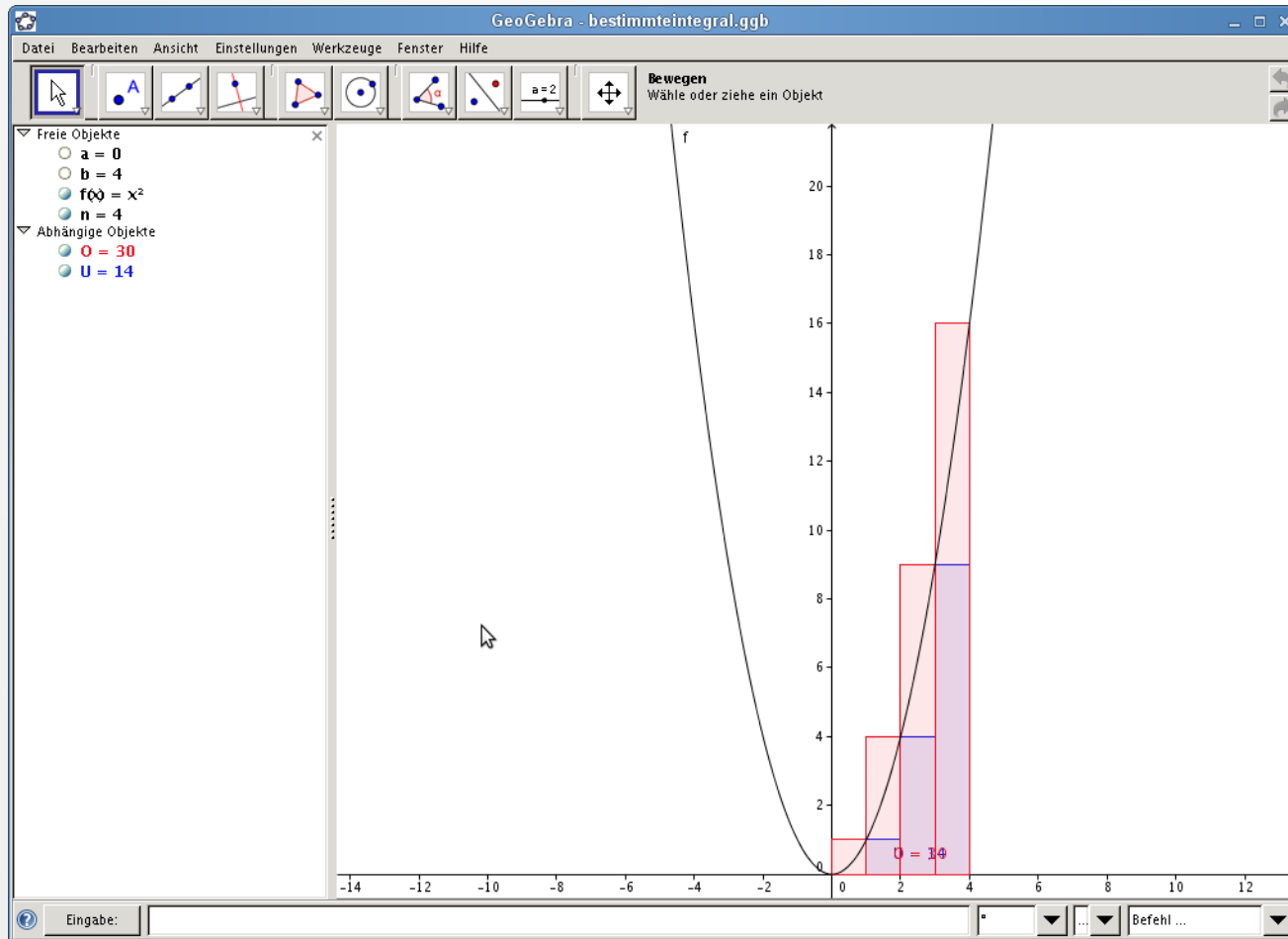
Bereit für Benutzereingabe



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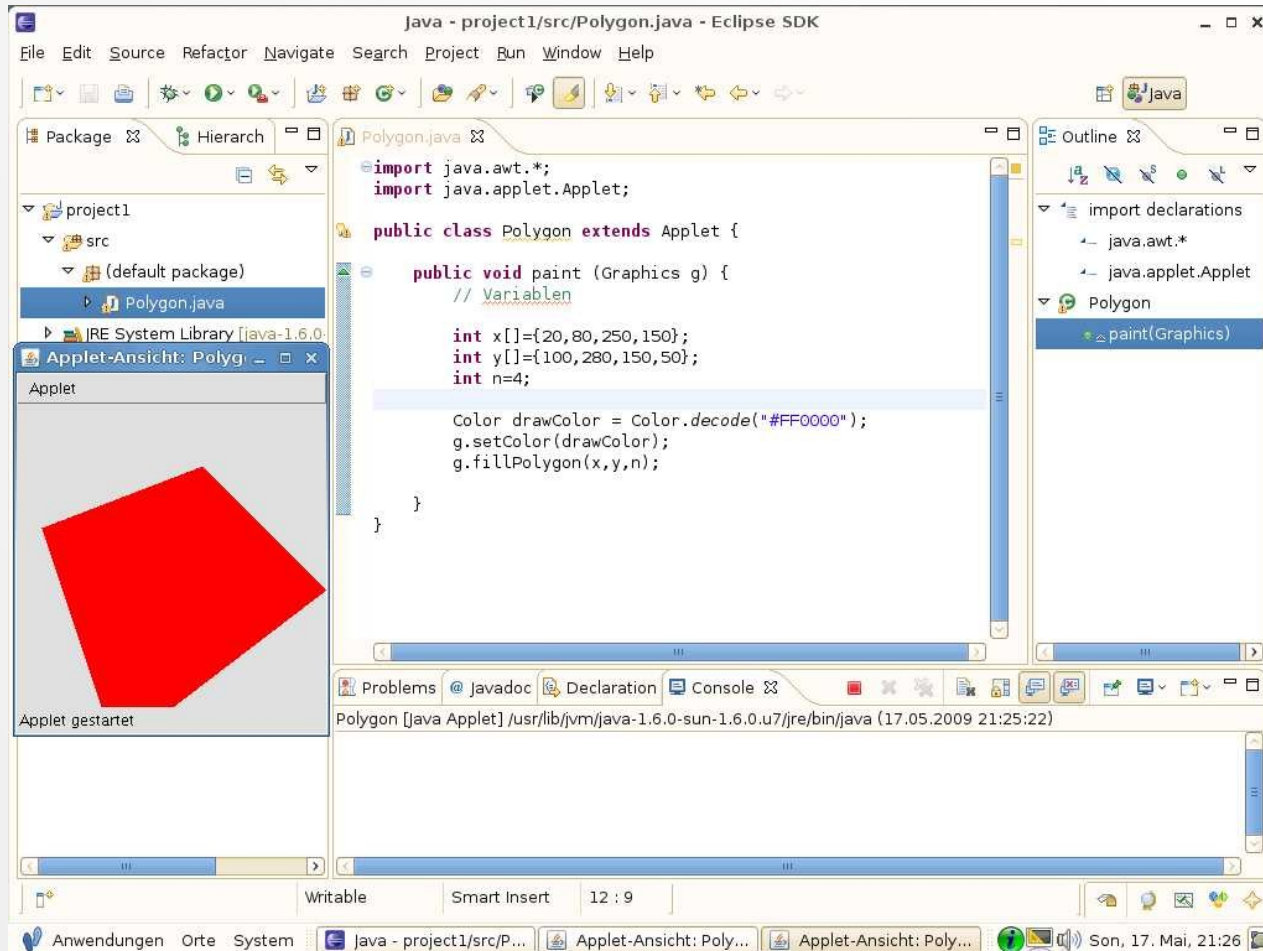
GeoGebra



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Eclipse



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classroom management

i TALC 1.0.9

Klassenraum-Verwaltung

Klassenräume/Computer

Auto-detected computers

EDV-Raum

Computer	IP-Adresse
vst01	192.168.0
vst02	192.168.0
vst03	192.168.0
vst04	192.168.0
vst05	192.168.0
vst06	192.168.0
vst07	192.168.0
vst08	192.168.0
vst09	192.168.0
vst10	192.168.0
vst11	192.168.0
vst12	192.168.0
vst13	192.168.0
vst14	192.168.0
vst15	192.168.0
vst16	192.168.0
vst17	192.168.0
vst18	192.168.0
vst19	192.168.0
vst20	192.168.0
vst21	192.168.0

Nutzernamen anzeigen

Benutzen Sie das Kontextmenü (rechte Maustaste), um Computer und Klassenräume hinzuzufügen/zu entfernen.

In Text-Datei exportieren

vst02 (EDV-Raum)

vst11 (EDV-Raum)

vst13 (EDV-Raum)

vst05 (EDV-Raum)

vst15 (EDV-Raum)

vst08 (EDV-Raum)

vst04 (EDV-Raum)

vst03 (EDV-Raum)

vst07 (EDV-Raum)

vst19 (EDV-Raum)



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... and a lot of further education software!

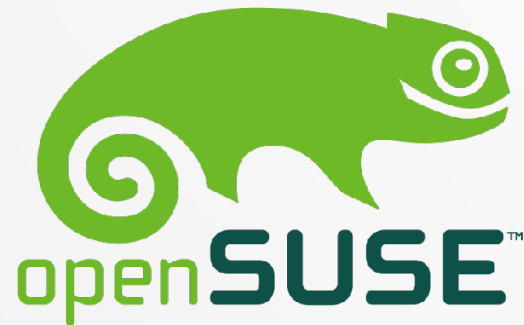


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server4education

operating system




easy installation



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server configuration module

 server4education Konfiguration

Hostname und Domain Name

Hostname (z.B. s4e) Domain Name (z.B. school.network)

Statische IP Adresse

Netzwerkarte für Schulnetzwerk

Fixe IP-Adresse (z.B. 192.168.1.1) Netzwerkmaske (z.B. 255.255.255.0)

Standard-Gateway (z.B. 192.168.1.254)

1. Nameserver (z.B. 192.168.1.254) 2. Nameserver (z.B. 8.8.8.8)

DHCP-Server

DHCP-Server aktiviert

DHCP-Bereich Start (z.B. 192.168.1.100) DHCP-Bereich Ende (z.B. 192.168.1.200)

Server-Passwort ändern

neues Passwort Passwort wiederholen



server4education

fileserver: samba

samba

The word 'samba' is written in a bold, italicized, blue font with a yellow outline and a red drop shadow. A large, black, double-headed arrow is superimposed over the word, pointing both upwards and downwards.

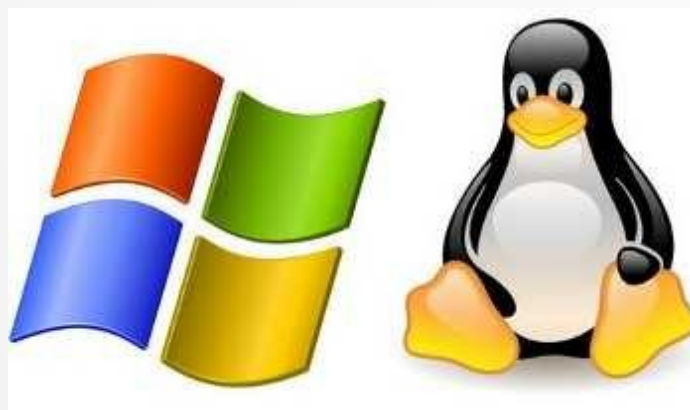
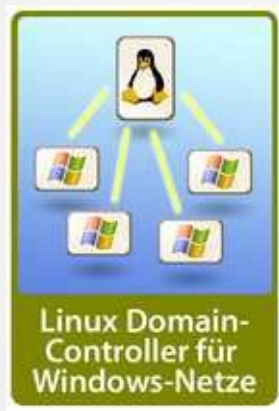
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server4education

Fully qualified domaincontroller

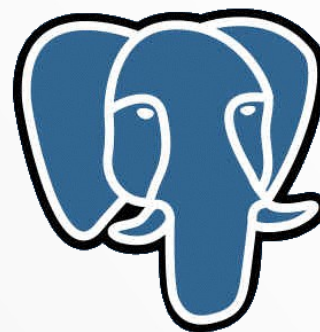
- Windows® Clients (XP, 7)
- Linux Clients



server4education



PostgreSQL



server4education

desktop4education :: server4education - Administration - Mozilla Firefox

http://d4e.at/administrator/index.php?option=com_content

desktop4education :: server4educati...

Joomla! desktop4education :: server4education

Version 1.5.22

Site Menüs Inhalt Komponenten Erweiterungen Werkzeuge Hilfe

Vorschau 0 1 Abmelden

Beiträge

Aus Archiv entfernen Archivieren Freigeben Sperren Verschieben Kopieren Papierkorb Bearbeiten Neu Einstellungen Hilfe

Filter: Los Zurücksetzen

- Bereich wählen - - Kategorie wählen - - Autor wählen - - Status wählen -

#	<input type="checkbox"/>	Titel	Freigegeben	Startseite	Reihenfolge	Zugriffsebene	Bereich	Kategorie	Autor	Datum	Zugriffe	ID
1	<input type="checkbox"/>	Interpädagogica 2010, Linz			1	Öffentlich			Administrator	12.11.10	37	163
2	<input type="checkbox"/>	eLearning Conference Eisenstadt 2010			2	Öffentlich			Administrator	12.11.10	55	162
3	<input type="checkbox"/>	l4e - linux4education			3	Öffentlich			Administrator	12.11.10	47	161
4	<input type="checkbox"/>	Fehler bei der Anmeldung			4	Öffentlich			Administrator	01.11.10	117	160
5	<input type="checkbox"/>	Support			5	Öffentlich			Administrator	03.12.07	6845	74
6	<input type="checkbox"/>	Standard			6	Öffentlich			Administrator	10.02.08	2200	84

Fertig



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server4education

BG/BRG Weiz - Mozilla Firefox

http://bgweiz.at/moodle/

Sie sind nicht angemeldet (Login)
Deutsch (de)

moodle

Hauptmenü

- Site news

Kursbereiche

Informatik	35
Mathematik	12
Englisch	5
GZ und DG	9
eLC	2
Bildnerische Erziehung	6
Maturaball	1
Musik	4
Berufsorientierung	2

moodle auf bgweiz.at/moodle

Kalender

November 2010

Mo	Di	Mi	Do	Fr	Sa	So
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					

Aktivitäten

- Foren

Fertig



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server4education

Album ansehen :: Gallery - Mozilla Firefox


http://peer.st/gallery3/


Album ansehen :: Gallery


Gallery [Startseite](#) [Anmelden](#)

Galerie durchsuchen

Gallery

 [openSUSE Conference](#)

 [Norwegen 2010](#)

 [Junior eDay](#)

Spracheinstellungen

« keine »

Infos zum Album

Titel: Gallery
Besitzer: [Gallery Administrator](#)

Verfügbare RSS Feeds

- Alle neuen Kommentare
- Kommentare zu Gallery
- Neueste Fotos und Filme

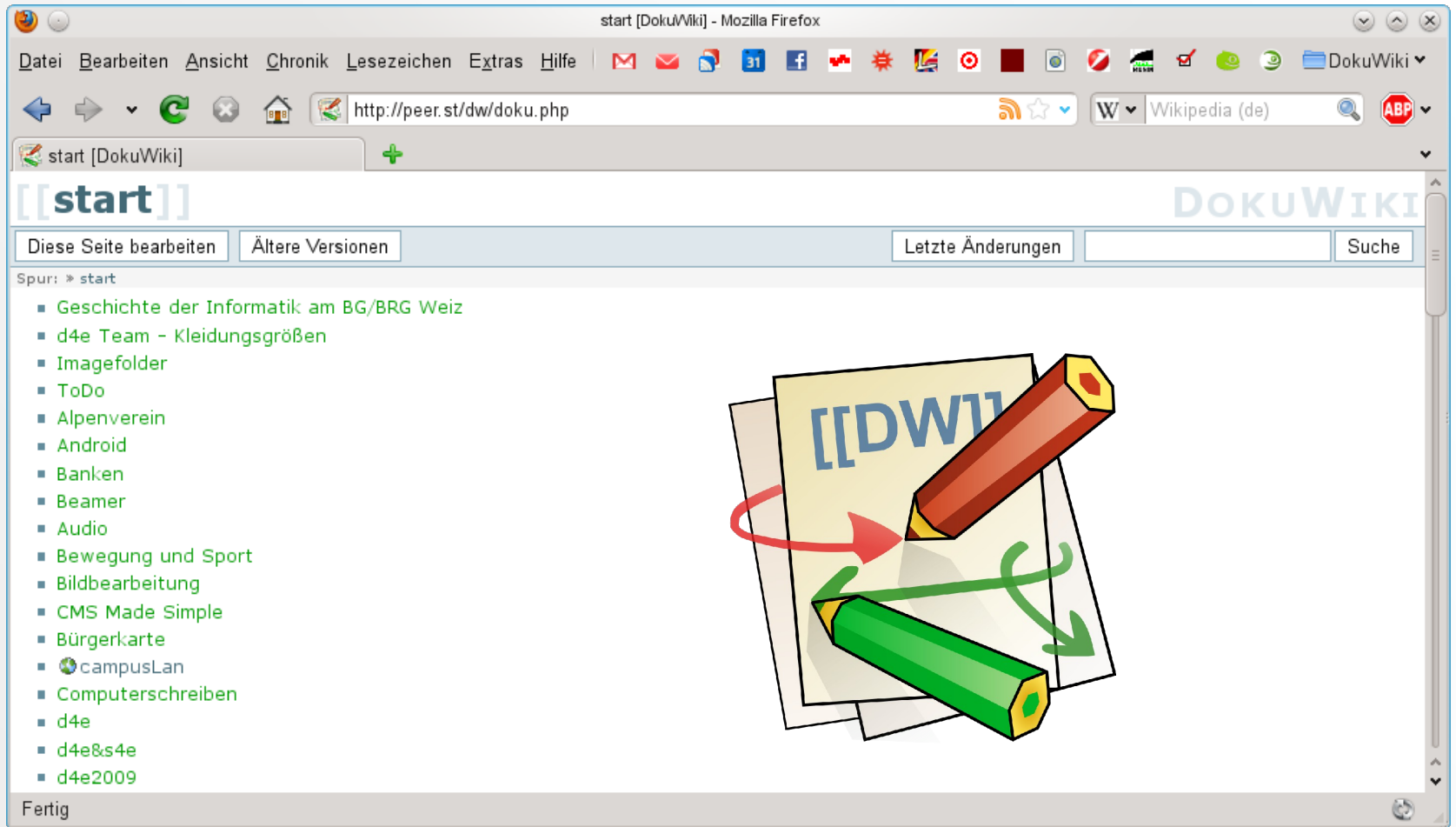
Fertig



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server4education



start [DokuWiki] - Mozilla Firefox

http://peer.st/dw/doku.php

start [DokuWiki]

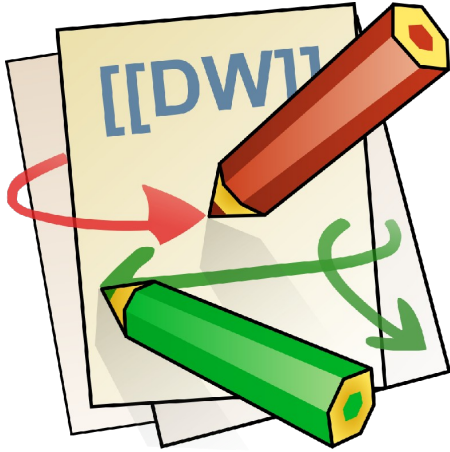
[[start]]

Diese Seite bearbeiten | Ältere Versionen | Letzte Änderungen | Suche

Spur: » start

- Geschichte der Informatik am BG/BRG Weiz
- d4e Team - Kleidungsgrößen
- Imagefolder
- ToDo
- Alpenverein
- Android
- Banken
- Beamer
- Audio
- Bewegung und Sport
- Bildbearbeitung
- CMS Made Simple
- Bürgerkarte
- campusLan
- Computerschreiben
- d4e
- d4e&s4e
- d4e2009

Fertig



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server4education

Home - CUPS 1.4.4 - Mozilla Firefox


http://localhost:631/

Home - CUPS 1.4.4

Startseite Verwaltung Klassen Online-Hilfe Aufträge Drucker

Common UNIX Printing System 1.4.4

CUPS ist das auf Standards basierte, Opensource-Drucksystem, welches von [Apple Inc.](#) für Mac OS[®] X und andere UNIX[®]-ähnliche Betriebssysteme entwickelt wird.



CUPS für Benutzer

- [CUPS.Übersicht](#)
- [Kommandozeilendruck und Einstellungen](#)
- [Neues in CUPS 1.4](#)
- [Benutzerforum](#)

CUPS für Administratoren

- [Drucker und Klassen hinzufügen](#)
- [Betriebsrichtlinien verwalten](#)
- [Basiswissen Druckabrechnung](#)

CUPS für Entwickler

- [Einführung in die CUPS-Programmierung](#)
- [CUPS-API](#)
- [Filter- und Backend-Programmierung](#)
- [HTTP- und IPP-APIs](#)



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server4education



server4education

proxy server



server4education

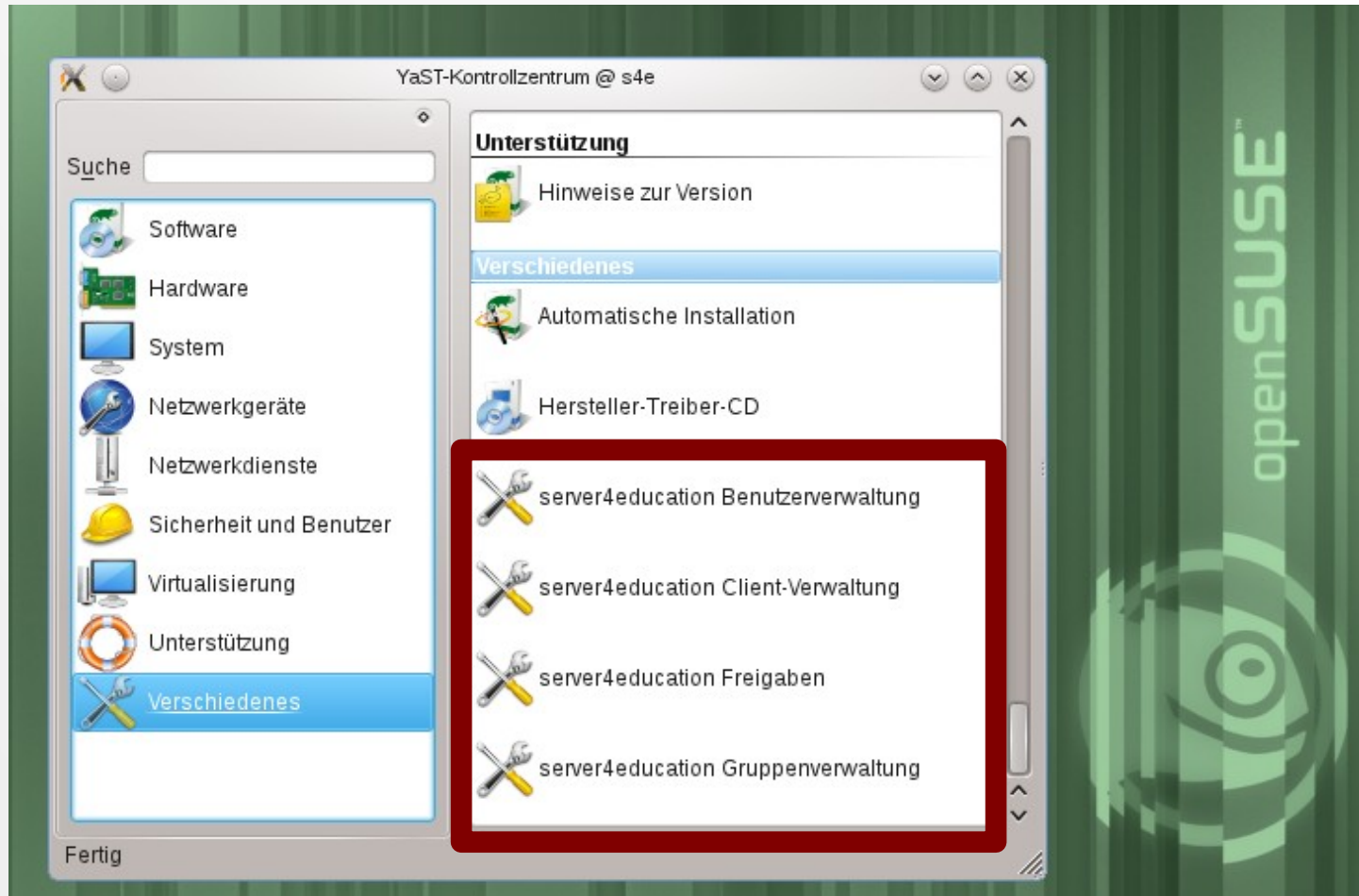
user database: OpenLDAP2



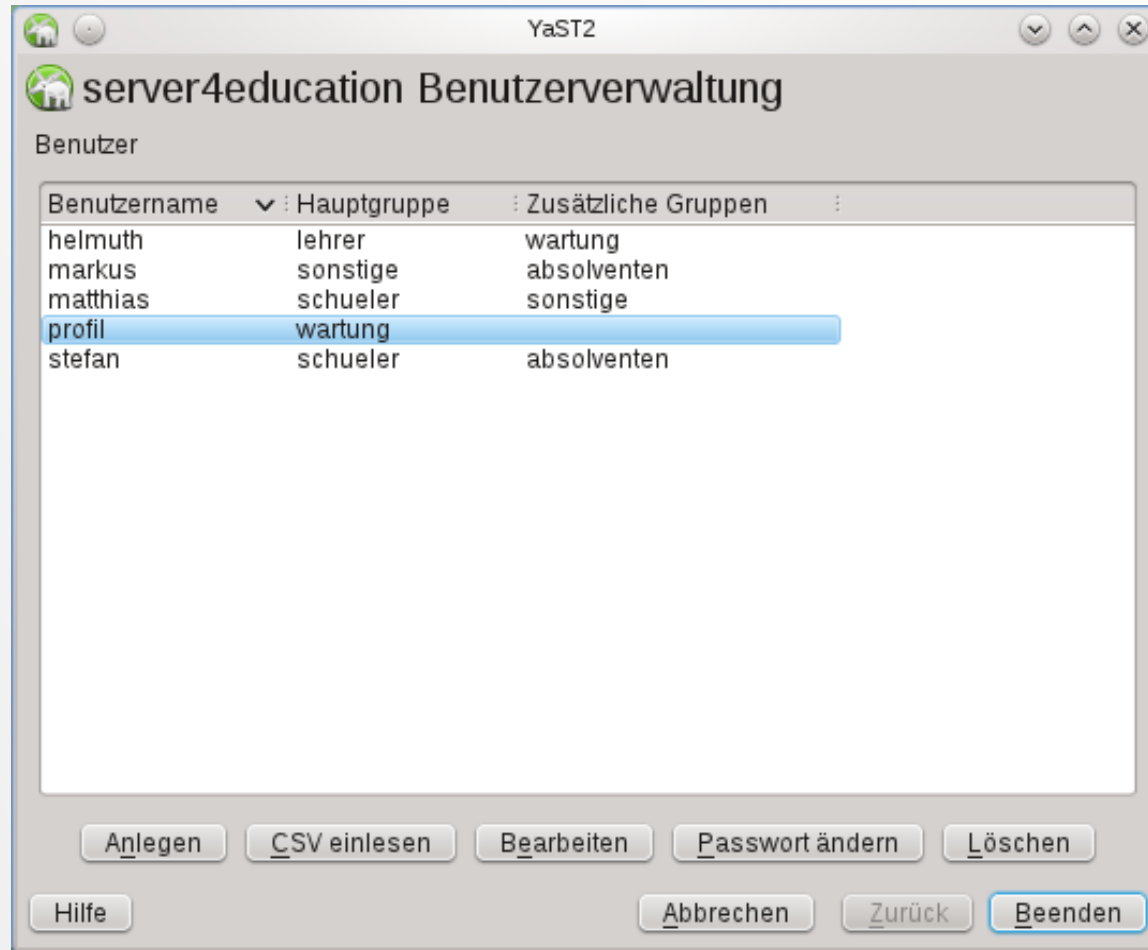
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server4education YaST modules



YaST module - user management



YaST2 module - user management

YaST2

Neuen Benutzer anlegen

Allgemeine Benutzereinstellungen

Benutzername
matthias

Hauptgruppe
schuelei

Passwort
.....

Passwort wiederholen
.....

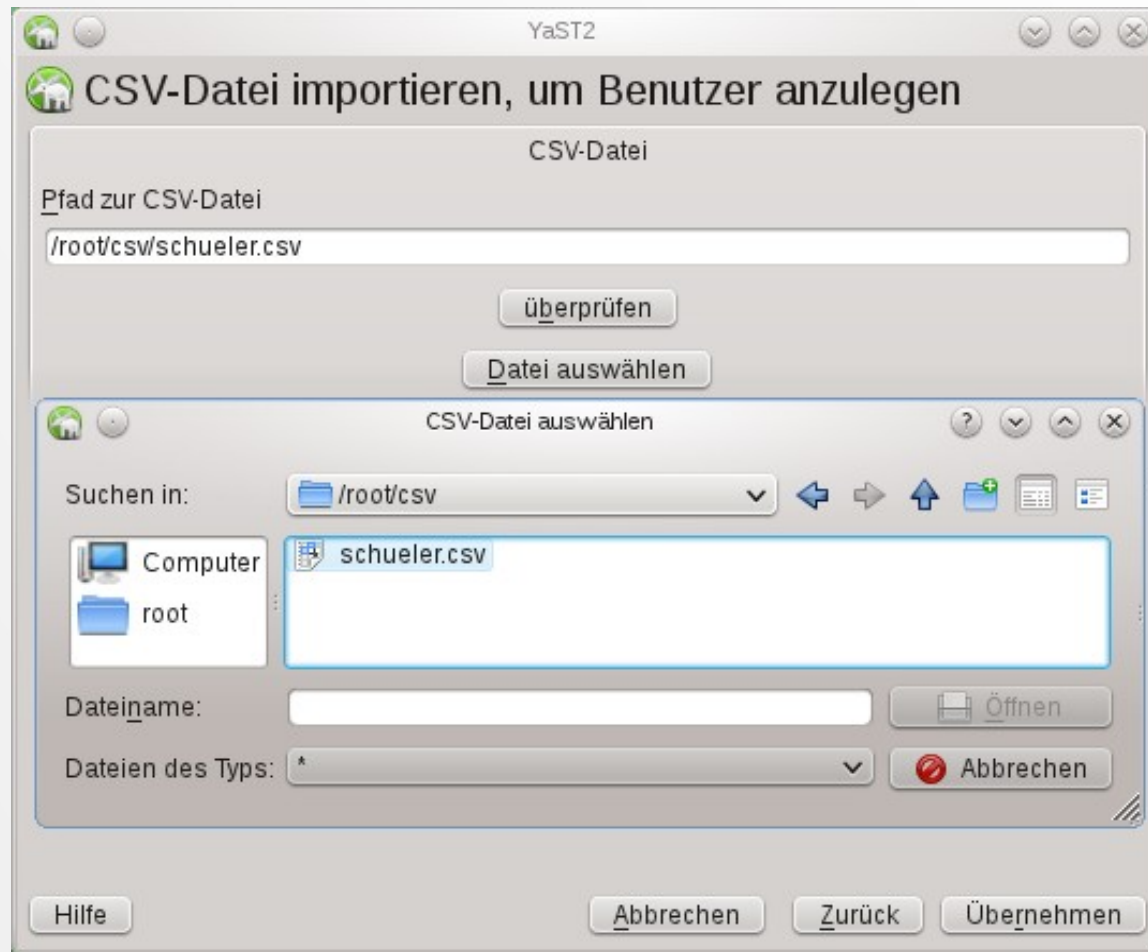
Zusätzliche Gruppen

- Domain Admins
- Domain Users
- Domain Guests
- Domain Computers
- Administrators
- Account Operators
- Print Operators
- Backup Operators
- Replicators
- wartung
- schueler
- lehrer
- sonstige
- absolventen

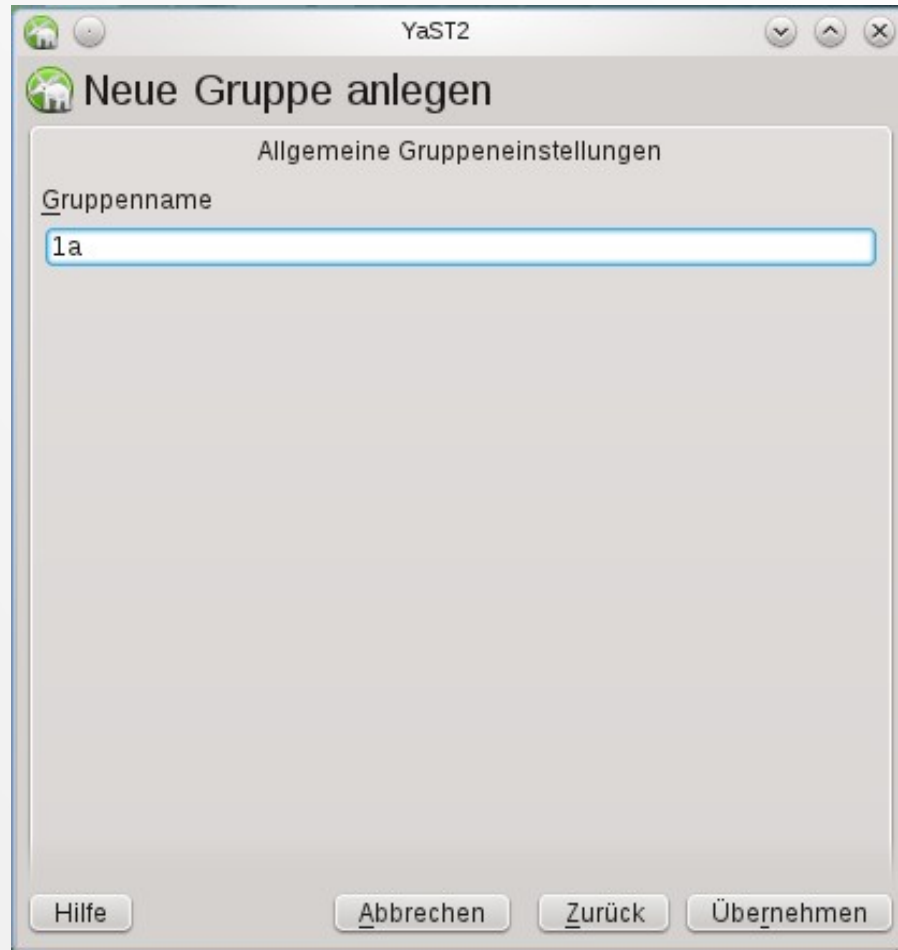
Hilfe Abbrechen Zurück Übernehmen



YaST module - user management



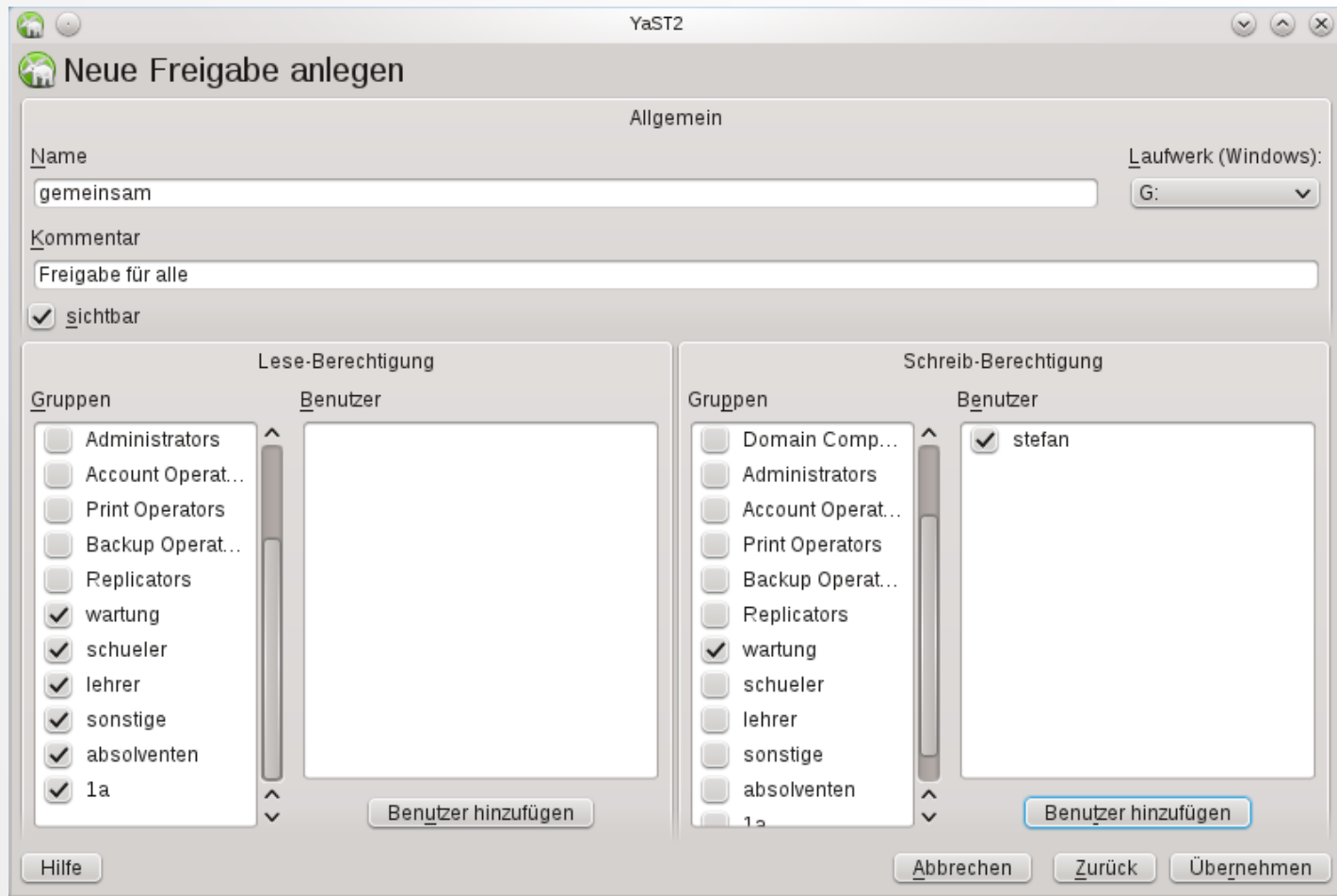
YaST module - group management



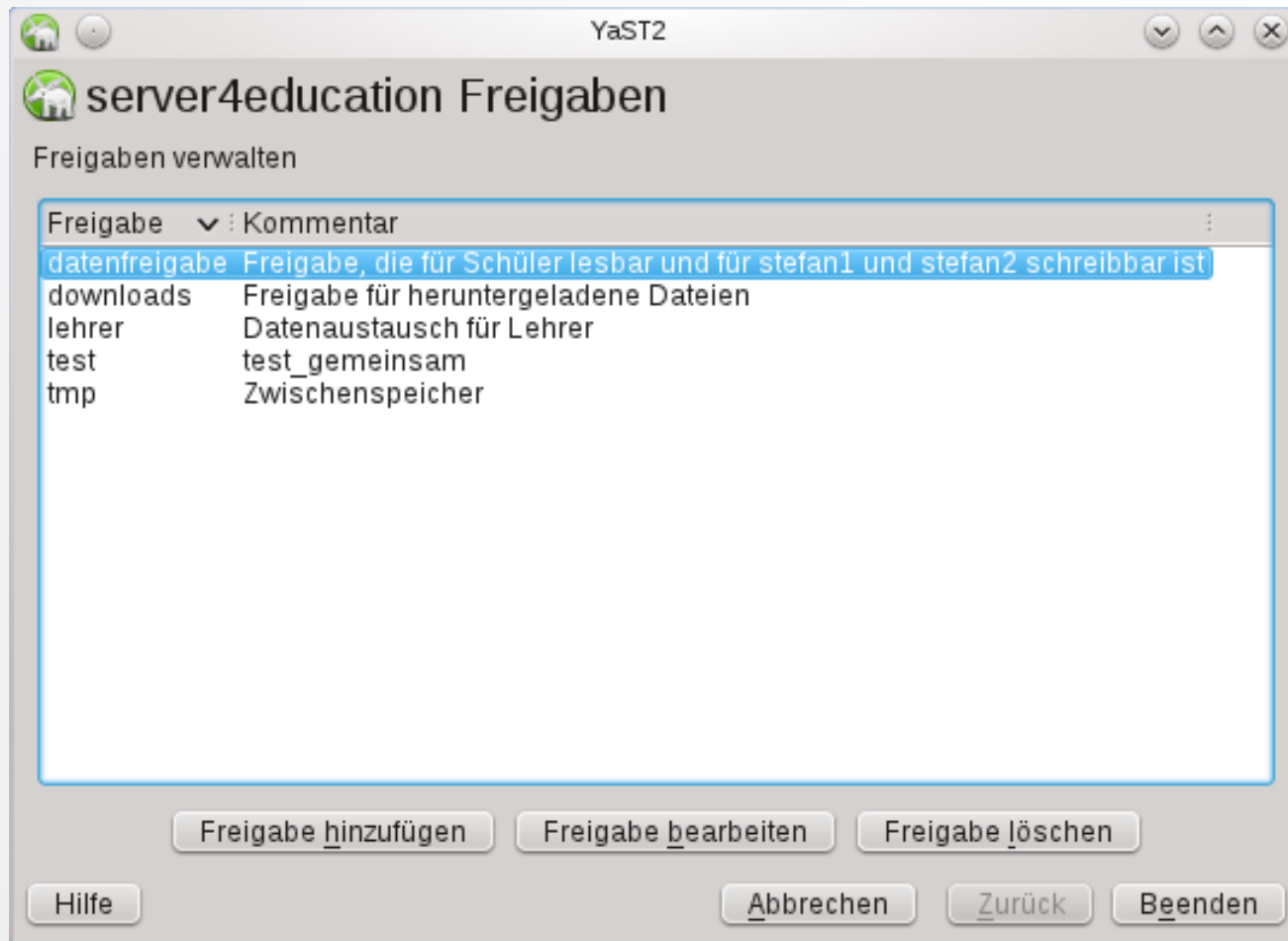
YaST module - group management



YaST module - shares management



YaST2 module - shares management



terminalserver4education

- bundled version of desktop4education and server4education



terminalserver4education

- x2go
- clients
 - PC (Windows, Linux, Mac OS)
 - mobile devices (Nokia N900)
 - browser plugins (IE, Firefox)
 - thin clients



terminalserver4education

- fat clients
 - PC (Windows, Linux, Mac OS)
- client: PXE boot
 - customized KNOPPIX
 - x2goclient



thin client



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BG/BRG Weiz (federal secondary school)



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computer room



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computer room



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computer classroom



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auditorium



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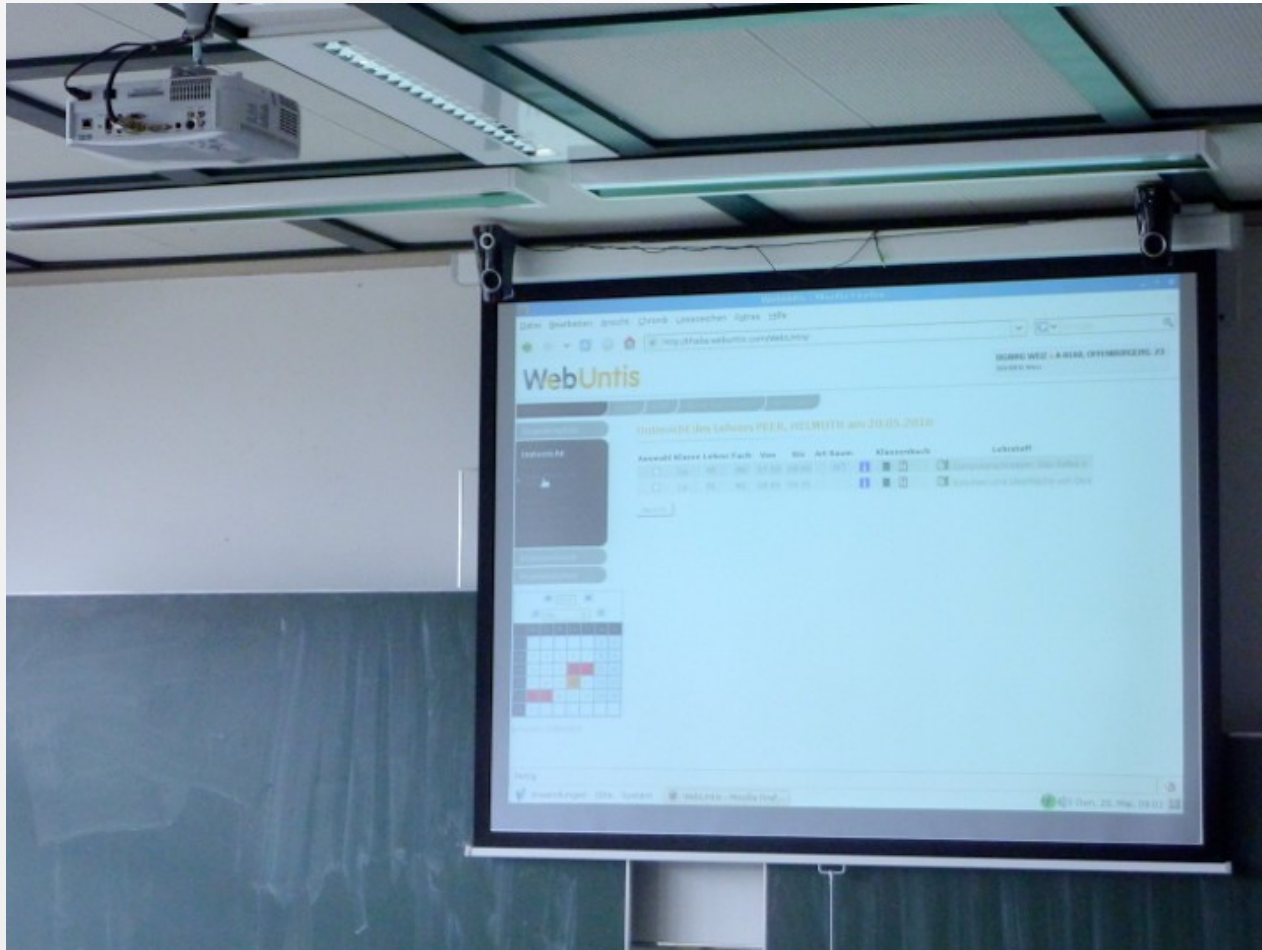
digital class-register



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classroom



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deployment

- deployment of host installations
 - Udpcast
 - ghost4unix (g4u)
 - ghost4linux (g4l)



host systems for deployment



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development headquarter



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openSUSE conference 2010



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Neusiedl/See, primary school



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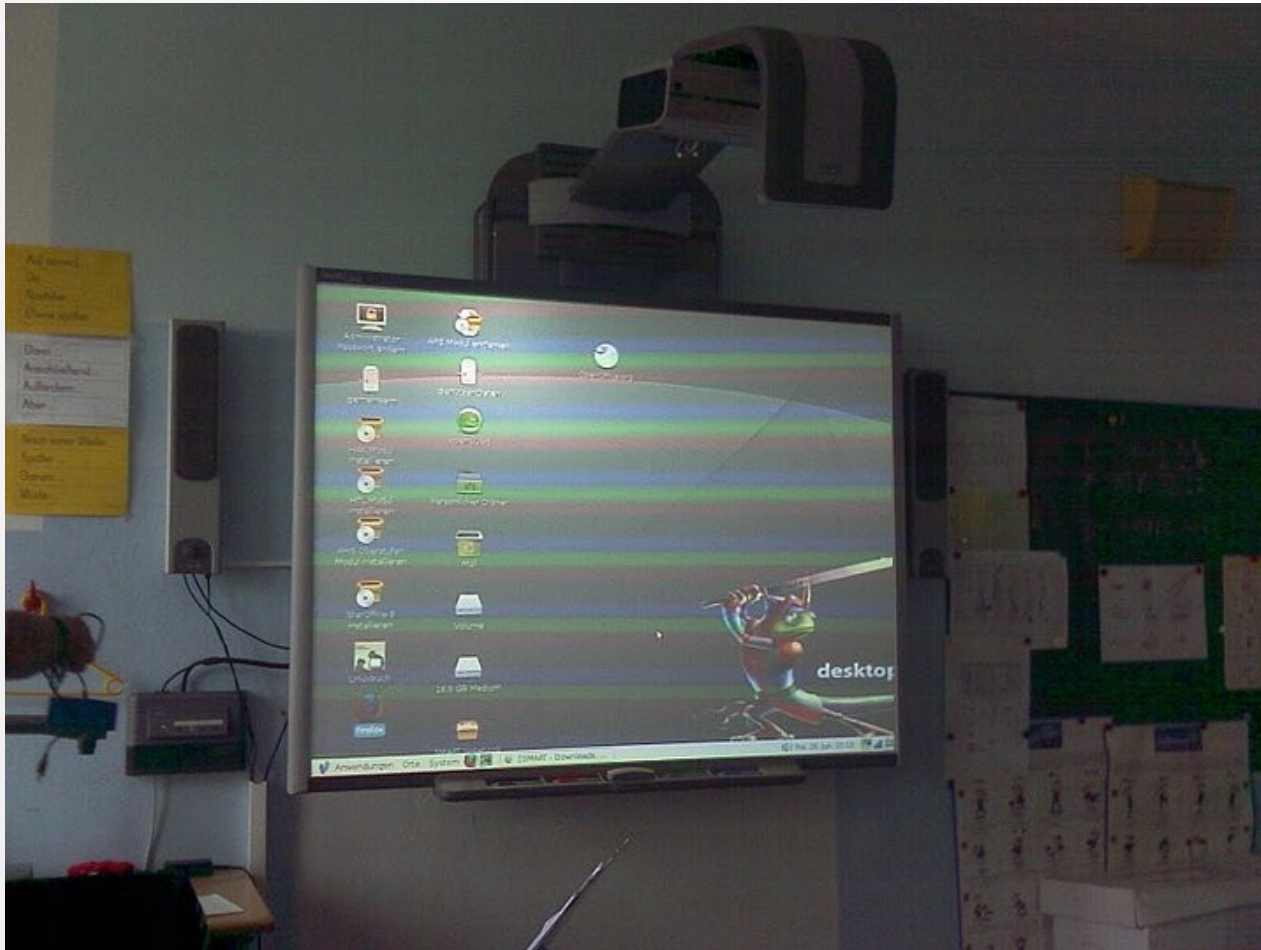
Neusiedl/See, primary school



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Neusiedl/See, primary school



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Bad Schallerbach, lower secondary school



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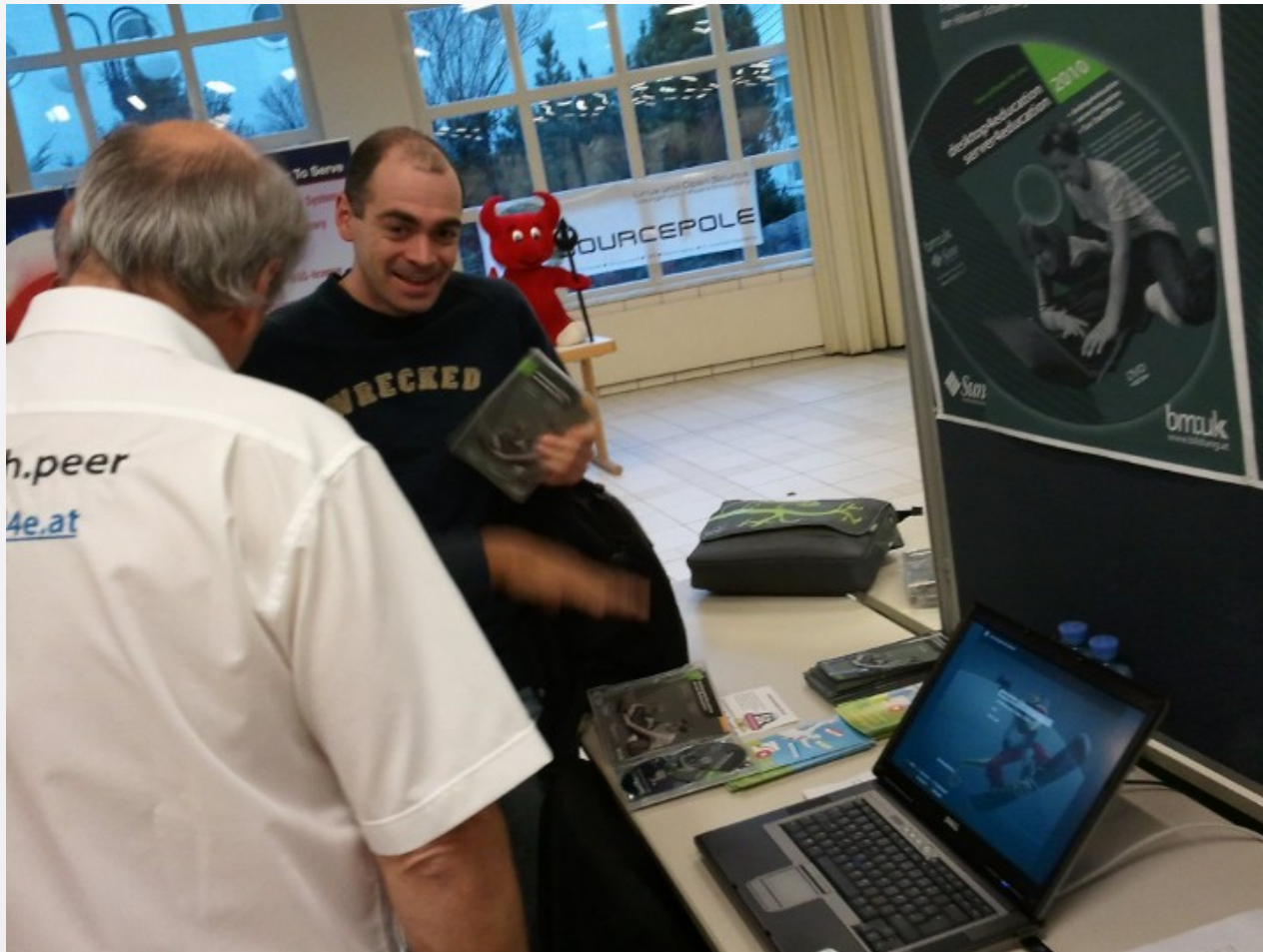
Gutenberg, primary school



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Linuxday Dornbirn



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Grazer LinuXTage 2011



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BildungOnline, Hall/Tirol



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Interpädagogica Linz 2010



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Workshop @ edu|days, Krems



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www.linux4education.at

Unter dem Titel linux4education bieten wir Schulungen und Workshops für Lehrer/innen auf den Gebieten Linux und Opensource-Software an.



Die Schulungsoffensive

linux4education

Seminarort

BG/BRG Weiz,
Offenburger Gasse 23

Datum

11. bis 13. Juli 2011

Zeit

jeweils von
09:00 bis 17:00 Uhr

Workshop für Einsteiger

Einführung in Linux und Anwendersoftware, desktop4education und server4education

Workshop für Fortgeschrittene

Installation von desktop4education und server4education, Benutzerverwaltung, Netzwerkverwaltung, Deployment, Backuplösungen, Druckerlösungen, Virtualisierung, Softwareupdates

Anmeldung

Online über die Pädagogische Hochschule Steiermark bis 12. Juni 2011 (<https://www.ph-online.ac.at>)
LV: linux4education / 250.0002

QR-Code

Mit Mobiltelefon fotografieren und Termin in den Kalender eintragen.



Weizer

Knoppixtage

mit Dipl.-Ing. Klaus Knopper

Seminarort

BG/BRG Weiz,
Offenburger Gasse 23

Datum

1. - 3. September 2011

Zeit

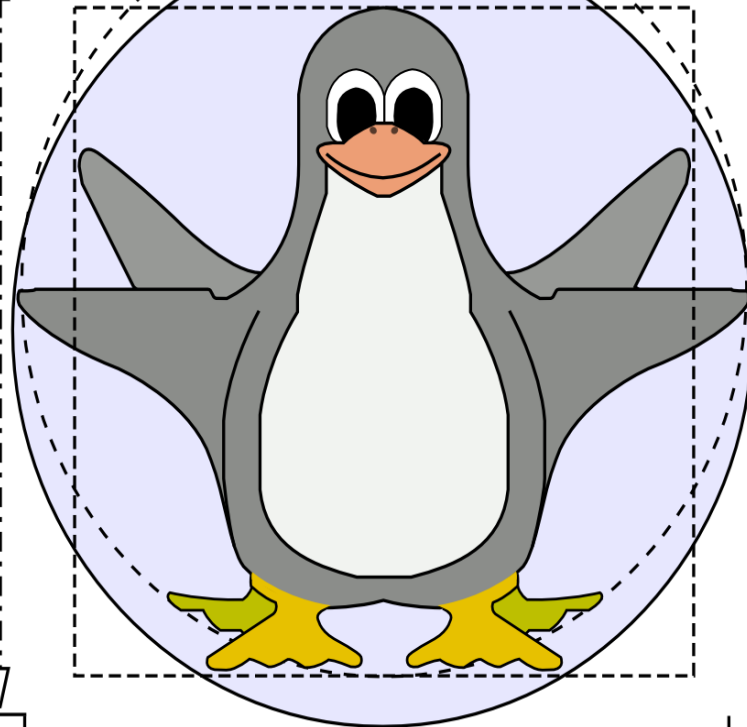
jeweils von
09:00 bis 17:00 Uhr

QR-Code

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Kalender eintragen.



Live GNU/Linux System



KNOPPIX

Anmeldung

Online über die Pädagogische Hochschule
Steiermark bis 12. Juni 2011
(<https://www.ph-online.ac.at>)
LV: Weizer Knoppixtage / 250.0003

Weitere Informationen & Hilfe: <http://l4e.at>

Workshop linux4education, KickOff, Weiz



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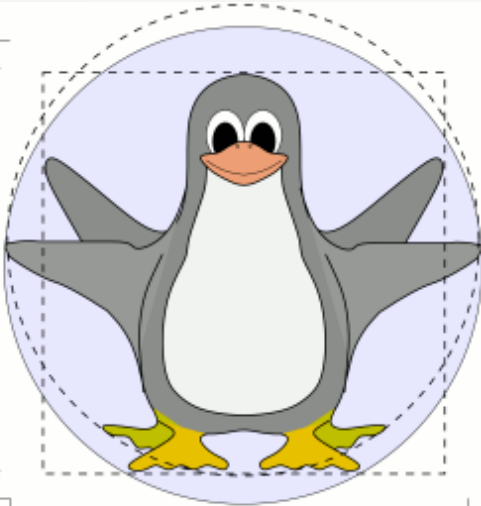
Workshop linux4education, Weiz



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Live GNU/Linux System



KNOPPIX



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questions?



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