

OpenSource im Einsatz

Ein Vortrag von Frank Schmidt



OpenSource

- ✓ **Desktop Applikationen**
 - ✓ **Serverprodukte**
 - ✓ **Risiken (GPL/LGPL) und Vorteile**
- 

Vorurteile

- ❌ **OpenSource Software ist nicht ausgereift**
 - ❌ **OpenSource Software fehlt es an Support**
 - ❌ **OpenSource Software ist nicht kostenlos**
- 

Die Realität

- ✓ **OpenSource Software beweist täglich Ihre Zuverlässigkeit (Linux, Apache, PHP,...)**
- ✓ **Es gibt (kosten-)freien Support von den Entwicklern bei Fehlern und die Entwicklergemeinschaft ist sehr offen für Verbesserungsvorschläge, die in der Regel schnell umgesetzt werden**
- ✓ **Nicht jede OpenSource Software ist für den kommerziellen Einsatz kostenfrei!**



MyCoRe ist ein Open Source Projekt zur Entwicklung eines Systems für Digitale Bibliotheken und Archivlösungen (oder allgemeiner "Content Repositories" >> CoRe). Im MyCoRe Projekt arbeitet eine Gruppe von Universitäten daran, für derartige Anwendungen einen gemeinsamen Software-Kern ("core") zu erstellen, der sich an die eigenen Bedürfnisse anpassen und erweitern lässt (daher das "My" für die lokale Adaption). Auf der Basis dieses Kerns, der als Open Source unter der GNU General Public License verfügbar ist, können spezifische Anwendungen an den jeweiligen Standorten realisiert werden.

PostgreSQL



Objekt Relationales Datenbank Management System unterstützt SQL92 und SQL99 und beherrscht viele modern Features:

- ✓ **Komplexe Abfragen**
- ✓ **Foreign Keys**
- ✓ **Trigger**
- ✓ **Views**
- ✓ **Transaktion**
- ✓ **Multiversion Concurrency Controlling System**
- ✓ **Schemas**
- ✓ **Einen nativen Windows-Port**
- ✓ **Verschachtelte Transaktionen**
- ✓ **Point in Time Recovery**

Frei erweiterbar mit selbstdefinierbaren

- ✓ **Datentypen**
- ✓ **Funktionen (in C, C++, Java, Perl, Ruby, PHP, Python, uvm...)**
- ✓ **Operatoren**
- ✓ **Aggreagtionsfunktionen**
- ✓ **Indexmethoden**
- ✓ **Zusätzliche Sprachen**



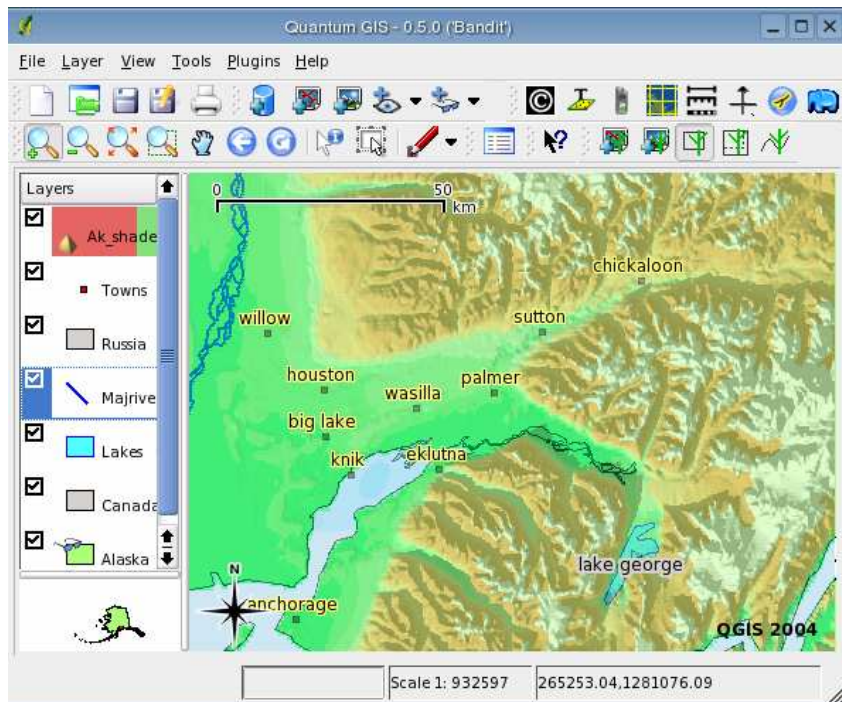
Andere Datenbanksysteme



Mckoi SQL Database

Geografische Informationssysteme

PostGIS
Geographic Objects for PostgreSQL



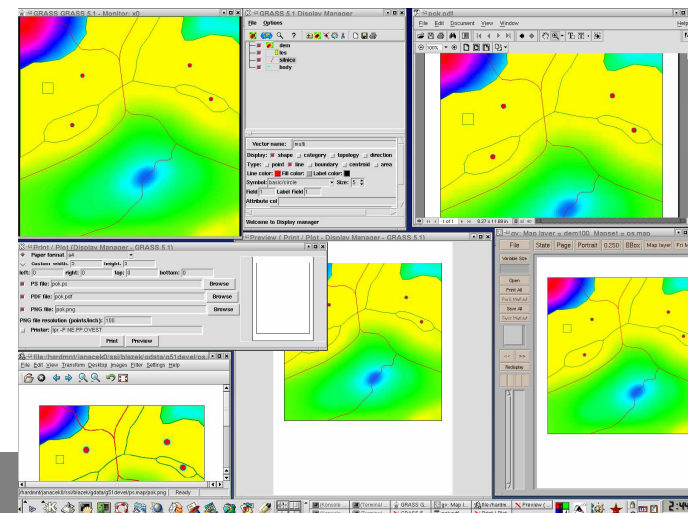
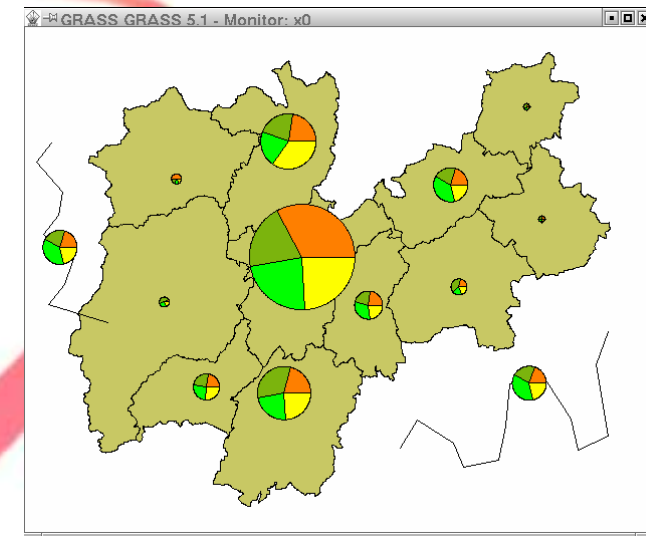
PostGIS adds support for geographic objects to the PostgreSQL object-relational database. In effect, PostGIS "spatially enables" the PostgreSQL server, allowing it to be used as a backend spatial database for geographic information systems (GIS), much like ESRI's SDE or Oracle's Spatial extension.

<http://qgis.org>



GRASS GIS

GRASS ist ein Geo-Informationssystem, das bereits auf eine lange Geschichte zurückblicken kann. Seit 1982 wurde es von einer Anzahl U.S.-amerikanischer Regierungsbehörden mit einem Aufwand von mehreren Millionen Dollar entwickelt. Auch viele Universitäten entwickelten weltweit Module für GRASS, die integriert sind. An der Universität Hannover wurde die Version 4.2.1 koordiniert, die in die Version 4.3 mündete. Seit 1999 wird an der Version 5.0 mit durchgreifenden Neuerungen gearbeitet. Das GRASS Development Team wird die Entwicklung von GRASS zu einem benutzerfreundlichen GIS fortführen. GRASS GIS ist bis heute im Kosten-Nutzen-Verhältnis ungeschlagen.



<http://grass.itc.it/index.php>

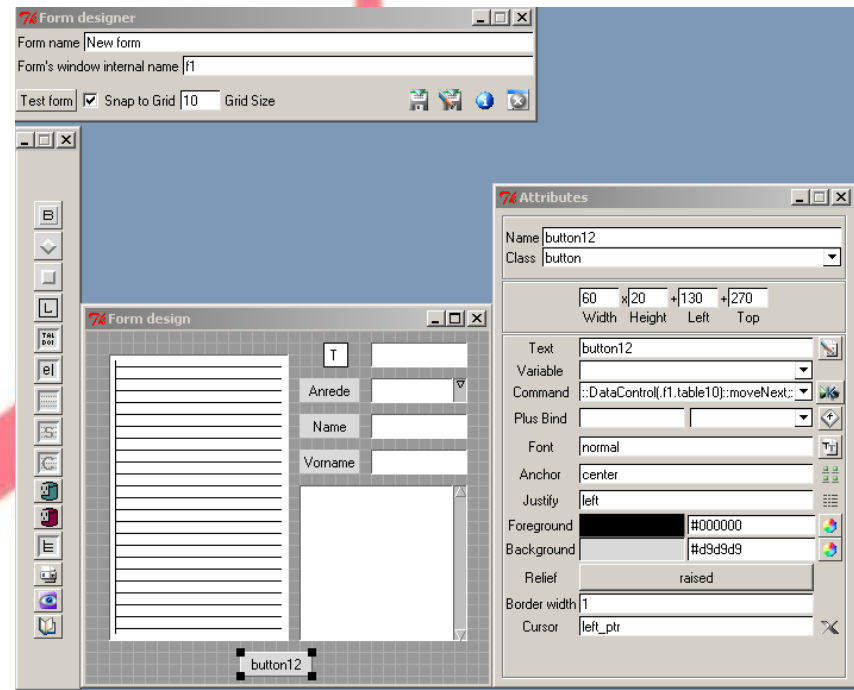
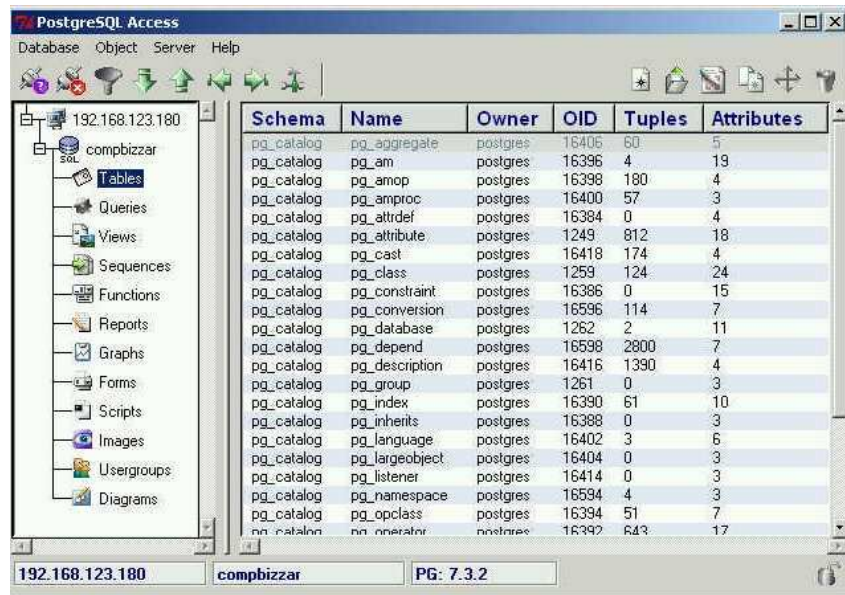
Enterprise Manager?

The screenshot shows the pgAdmin III interface. On the left, a tree view displays the database structure: PostgreSQL 7.4 (192.168.0.3:5432) > Databases (1) > HM > Schemas (1) > public. The main pane shows the properties of the view 'pv_adreslabel', including its name, OID (23458), owner (postgres), and definition. The definition is a SQL query that uses CASE statements to format partner information. Below the definition, there is a 'Properties' tab and a 'Statistics' tab. The status bar at the bottom indicates 'Retrieving View details... Done.' and '0.02 secs'.

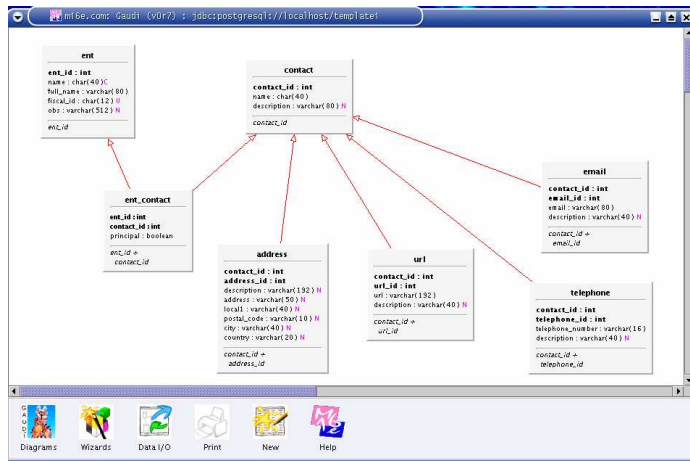
The screenshot shows the phpPgAdmin web interface. The browser address bar shows 'http://localhost:2112/cvs/phpgadmin3/index.php'. The page title is 'phpPgAdmin' and it indicates 'PostgreSQL 7.3.3 running on :5432 -- You are logged in as user "postgres"'. The interface includes navigation links for 'Users | Groups | Account | Reports | SQL | Logout'. A tree view on the left shows the database structure: Local 7.3 > postgres > public > Tables > f_host_watch. The main pane displays the table structure for 'postgres: f_host_watch' with columns, types, and actions.

Field	Type	Not Null	Default	Actions
d_date_id	integer	NOT NULL		Alter Drop
d_host_id	integer	NOT NULL		Alter Drop
updays	integer			Alter Drop
uphours	time without time zone			Alter Drop
systeme	text			Alter Drop
one	numeric(30,6)			Alter Drop
five	numeric(30,6)			Alter Drop
fiteen	numeric(30,6)			Alter Drop
osversion	text			Alter Drop
filesystem	text			Alter Drop
blocks	bigint			Alter Drop
used	bigint			Alter Drop

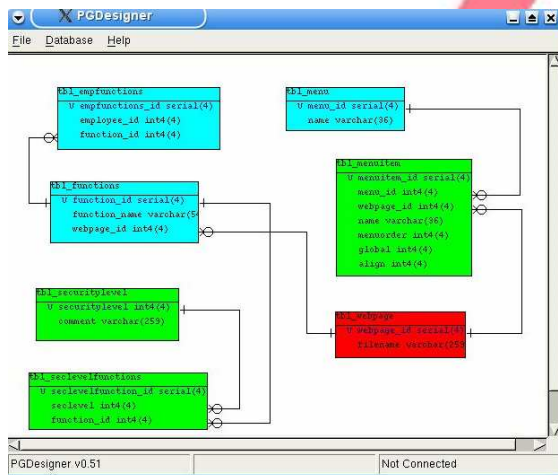
MS Access?



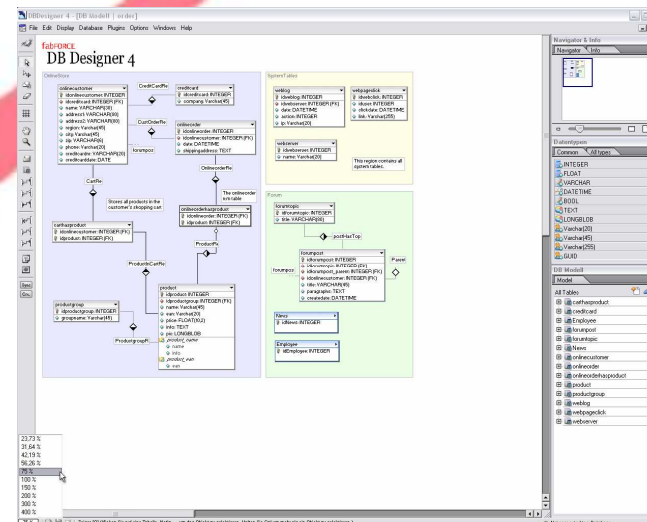
DB Design



<http://www.memoriapersistente.pt/en/opensource/gaudi/>

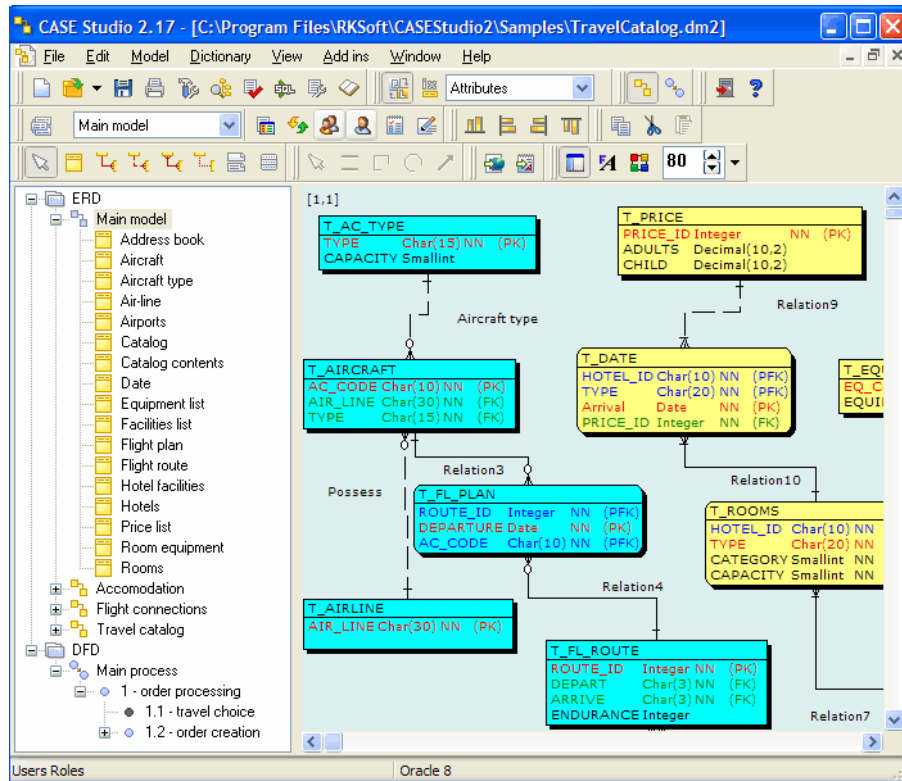


<http://www.hardgeus.com/projects/pgdesigner/>



<http://www.fabforce.net/dbdesigner4/>

DB Design



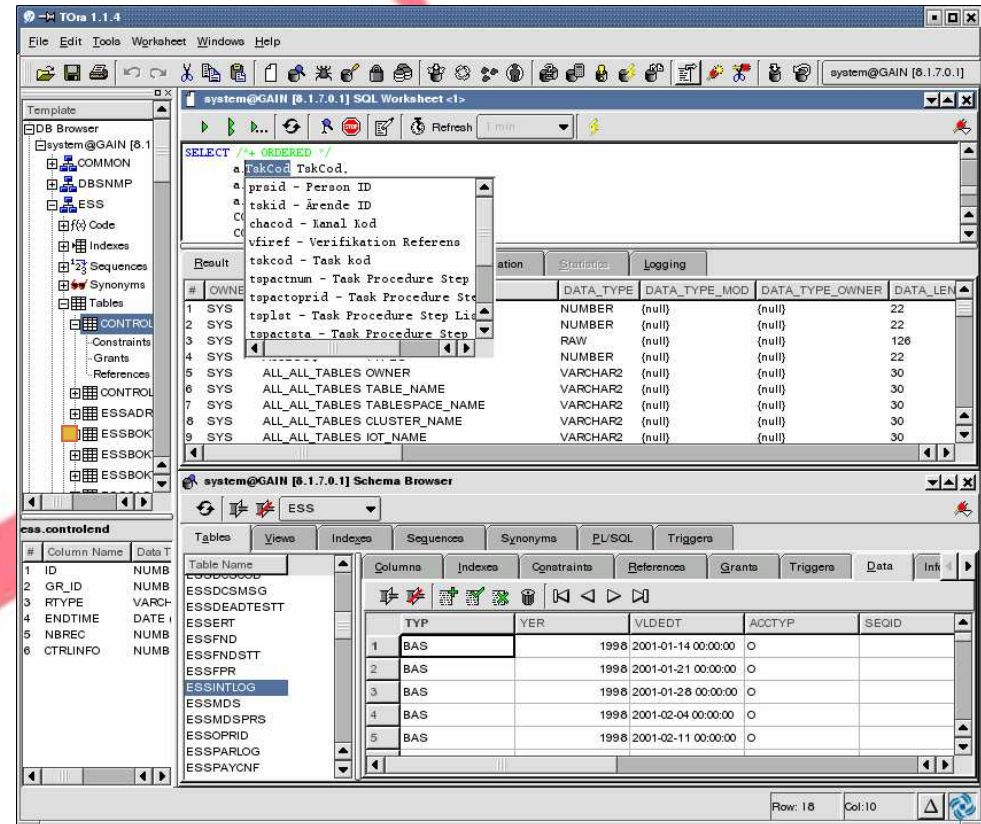
✓ **Nicht OpenSource
und nicht kostenfrei,
aber Preiswert
(<340,- €)**

<http://www.casestudio.com>

Datenbankabfragen

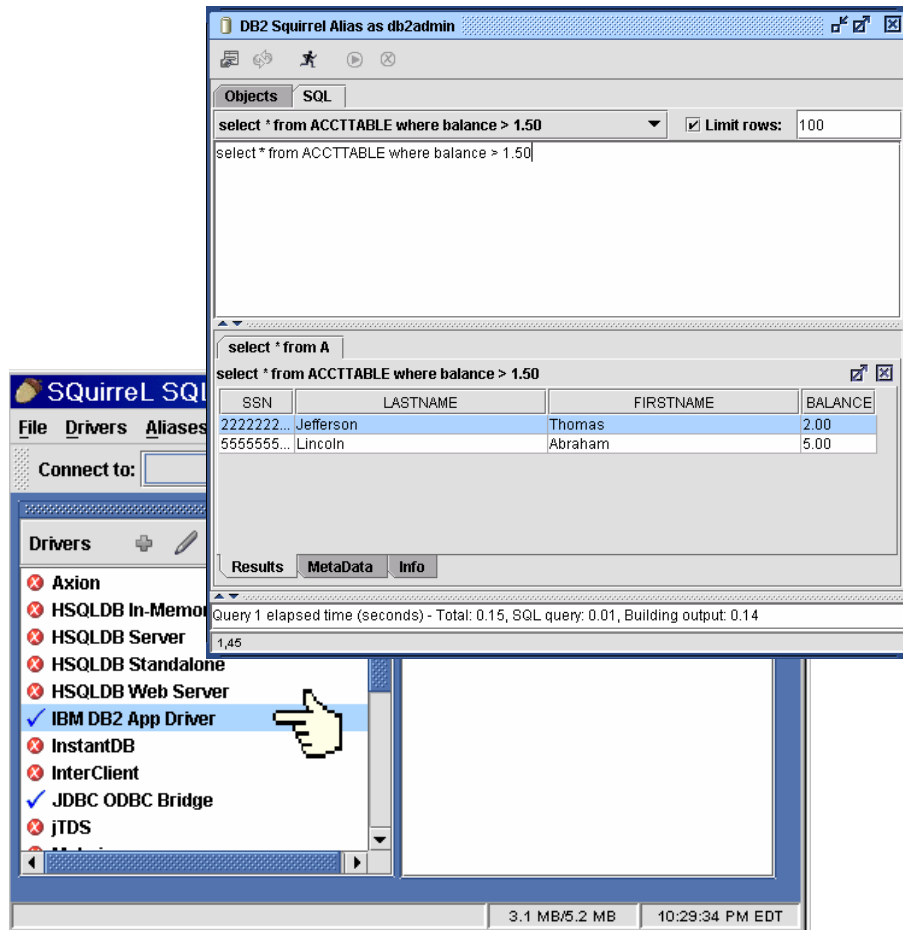
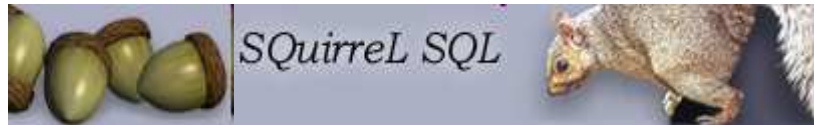


- ✓ **Advanced SQL worksheet**
- ✓ **Code completion**
- ✓ **Explain execution plan**
- ✓ **SQL syntax highlighting**
- ✓ **PL/SQL block parsing**
- ✓ **Schema browser**
- ✓ **Table & view editing**
- ✓ **PL/SQL editor & debugger.**



<http://www.globecom.net/tora/>

Datenbankabfragen



- ✓ Unterstützt JEDE Datenbank (JDBC)
- ✓ MySQL Plugin
- ✓ Oracle Plugin
- ✓ Microsoft MSSQL Plugin
- ✓ Session Scripts
- ✓ SQL Bookmarks
- ✓ SQL Scripts
- ✓ SQL Validator
- ✓ Graph Plugin
- ✓ Syntax Highlighting Plugin

Im Unternehmen

-Teves

- ✓ **Logistik**
- ✓ **Gabelstapler**
Leistsystem auf
Basis von Linux,
Apache, PHP und
PostgreSQL/Oracle


technik für Automobile!



- ✓ **1 Mrd. Datensätze**
innerhalb von 6
Monaten verwaltet
mit PostgreSQL

Stadt-Bonn

- ✓ **Geografische-**
Informationssystem
- ✓ **500 Mio. Datensätze**

CRM

hipergate
v2.1

Queries Help Disconnect

Start Collaborative Tools Contact Management Project Management Content Production Corporate Library Shop Configuration

Main Page

Calendar
New Task New Activity
Today of 9:00 to 10:00 Project follow-up
Pending Tasks 4 Prepare monthly sales report ✓

Calls
New Call
Received
19:20 Steve McGregor 95 555 35 55 ✓
16:37 Martin Swach 95 555 25 55 ✓
Sent

Recent Contacts
New Contact Search
Andrei Kafrenko
Gorilov Bestajenko

Incidences
New Incidence
CALENDAR PORTLET MISSPELLING
PROJECT EXPANSION UNORDERED FOR ORACLE
ORACLE 10G TIMESTAM PROBLEM
WRONG WORKAREA DELETED

Customize this page - Microsoft Internet Explorer

Customize this page

Left Column	Available Items	Right Colum
Calendar Contacts	Opotunities Forums	Calls Incidences
<< Add	Add >>	
Remove >>	<< Remove	

Save Cancel

EGS
ENTERPRISE GLOSSARY SYSTEM

File Edit View Web Go Bookmarks Tabs Help

Home Address Book Tickets Calendar Projects Websites Admin System Admin

Overview »
My Company Details
My Details
My Preferences
Logout

Message of the day

News
[09-09-2003 11:16:07]
[20-08-2003 09:46:27]
[02-08-2003 20:19:49]

Announcements
[11-09-2003 08:30:47]
[19-08-2003 16:05:48]
[19-08-2003 15:48:03]
[08-08-2003 12:22:34]
[07-08-2003 20:09:15]

Unassigned Tickets
None

My Tickets
None

My Events
None

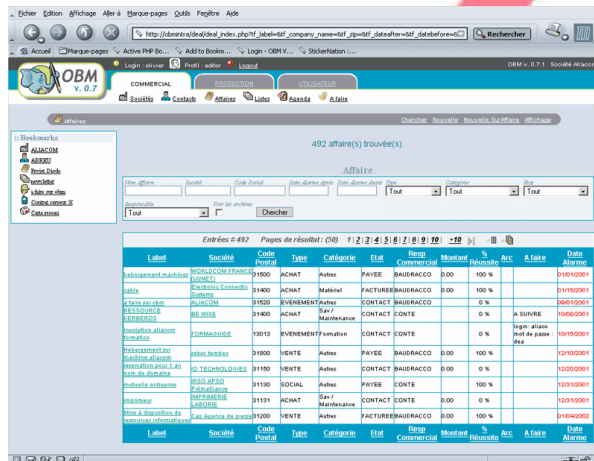
My Projects
None

Es gibt über 50 CRM Projekte (OpenSource)

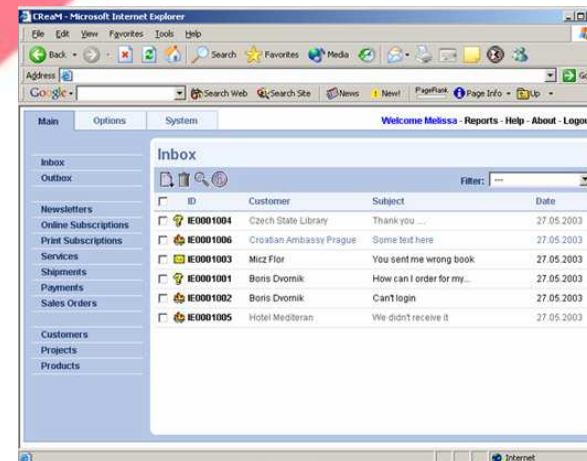
CRM



Frei, Open-Source CRM für Medien-
Organisationen
Cream



<http://obm.aliacom.fr>



<http://www.campware.org>

Lechtenböcker, Schmidt und Partner
Gesellschaft für IT Beratung, Schulung und Entwicklung

www.dozent.net



Kunde - Bastürk Asim& Ahmet Bastürk

Stammdaten | **Schlüsselwörter**

Kundenr.: 1064698229056 | Lieferantennr.:

Firma 1:

Firma 2:

Vorname: | Nachname:

Strasse: Nürnberger str 14

PLZ: | Stadt:

Staat:

Telefon 1: 09- | Telefon 2:

Fax: 09- | Mobil:

eMail: | Webseite:

Zahlart:

Ansprechpar...:

Risikogrenze: 0.00

Rabatt Logik: T...

Standard Preis: Keine

Finanzamt:

Steuernummer:

Kontonummer:

BLZ:

Bank:

Lastschrittverf...:

Haben: 0.00 | Soll: 14,920.06

Kontostand: 14,920.06

Notiz:

Betreff	Datum

Brutto Umsatz

ID	Datum	Typ	Brutto
1-13	Oct 8, 2003	Rechnung	945.36
1-125	Oct 30, 2003	Rechnung	1769.82
1-129	Oct 31, 2003	Rechnung	251.15
2-305	Jan 13, 2004	Rechnung	1023.75
2-357	Jan 31, 2004	Rechnung	2637.39
2-468	Feb 22, 2004	Rechnung	949.91
2-469	Feb 22, 2004	Rechnung	143.19
2-527	Mar 4, 2004	Rechnung	2649.69
2-543	Mar 10, 2004	Rechnung	795.11
2-562	Mar 17, 2004	Rechnung	48.47

Artikel anzeigen | Speichern | Schliessen

Druckansicht

Anteil am Ges.umsatz heute

Anteil am Ges.umsatz der letzten 4 Wochen

Verkauf grafik

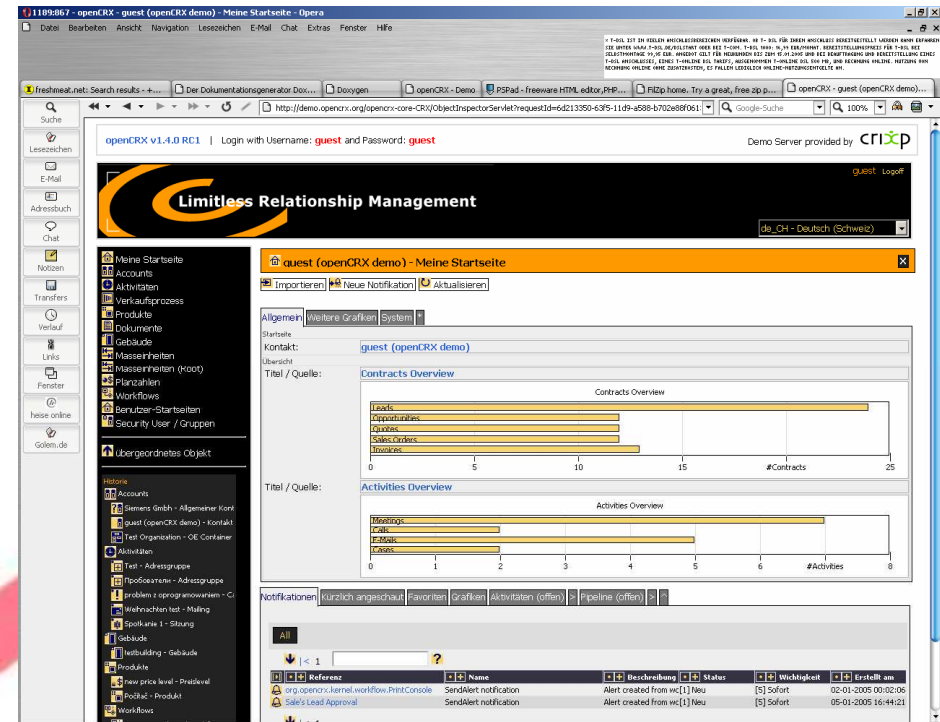
Page 1 of 1

<http://opencrm.oezdiller.com>

Leider noch BETA! Sollte man jedoch im Auge behalten!



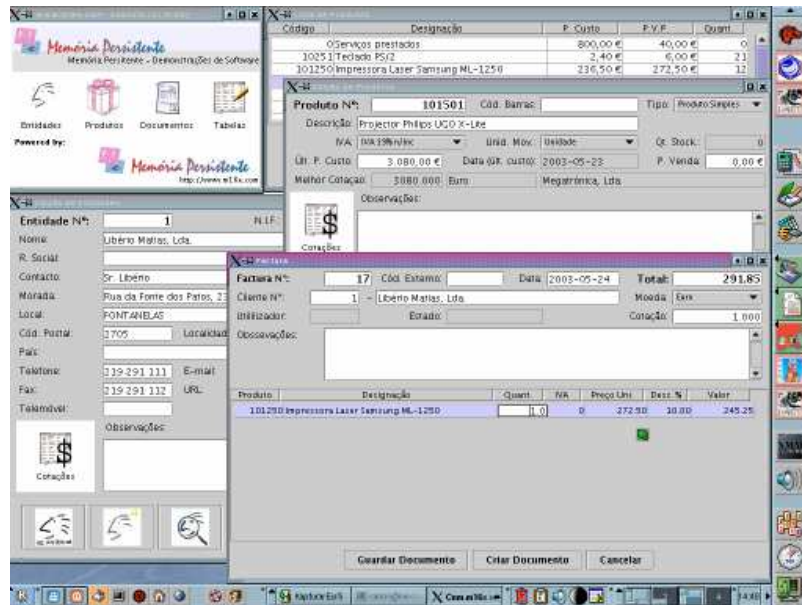
- True Open Source - openCRX is OpenSource
- SoftwareProfessional CRM suite — limitless relationship management
- powerful and comprehensive best-of-breed features for sales, service, marketing, contact center, and analytics; multi-entity enabled with multi-language and multi-currency support for players in a global market -- > read more or take a tour
- Deployment-free client — simply connect with your browser
- no need to deploy proprietary clients throughout your organization, openCRX works with any recent version of IE, Opera, Mozilla, Firefox, etc. - try our demo
- Easy to integrate and highly interoperable
- easy integration with your existing applications (ERP, IVR, CTI, ...) is the best protection for your previous investments and openCRX supports all common technologies like RMI, CORBA, JMS, SOAP, and JCA; openCRX also includes smart front-ends for typical add-ons like document management, inventory tracking, facility management, etc.
- Highly scalable
- from a single-user environment on a laptop to enterprise-class globally distributed systems with tens of thousands of concurrent users
- Extremely low operations and maintenance costs
- openCRX runs on any platform with a J2EE-compliant AppServer and one of the major database management systems (e.g. MaxDB, Firebird, PostgreSQL, MS SQL, Oracle, or IBM DB2).
- Easy to customize
- XML-based customization, straight-forward, fast, and flexible (including multi-language features)
- Easy to extend
- write your own workflows or develop your own extensions - it's an easy task thanks to openCRX's component-based architecture and open standards like J2EE, MDA, etc.



<http://www.opencrx.org>

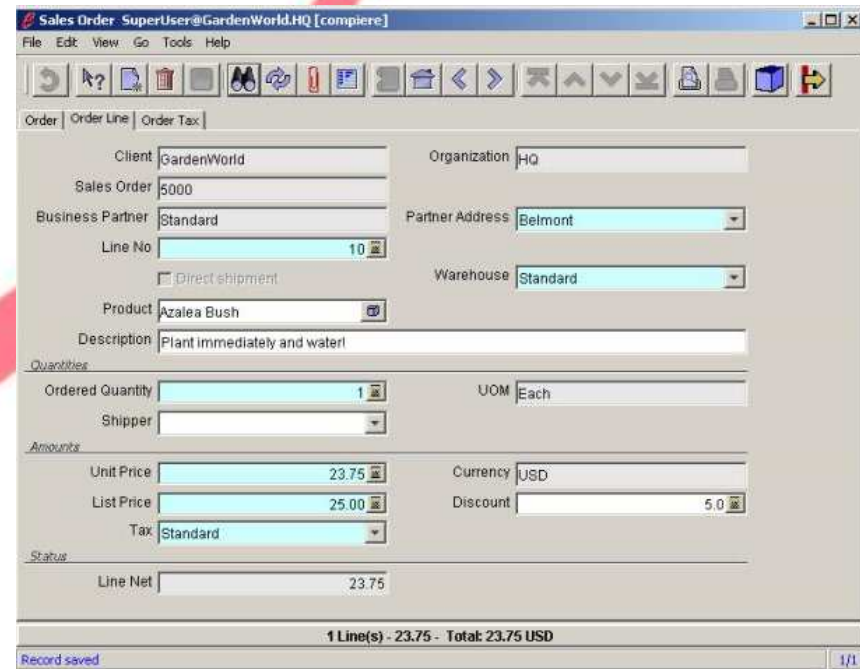
ERP

EVARISTO



[http://www.memoriapersistente.pt/
opensource/mp-biz/index.html](http://www.memoriapersistente.pt/opensource/mp-biz/index.html)

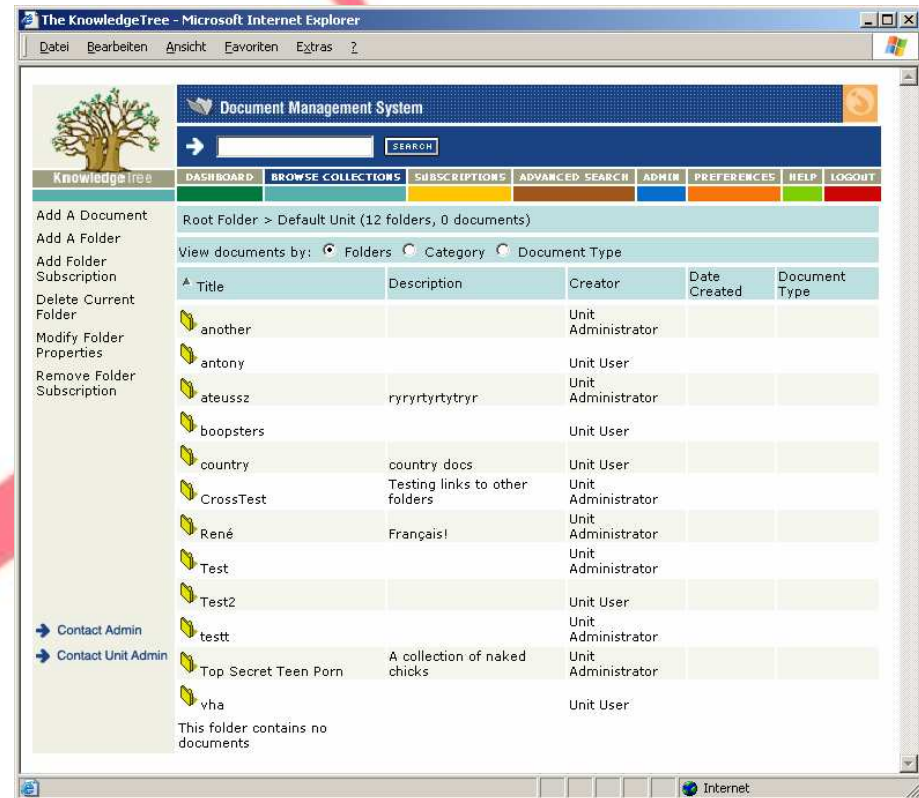
Compiere
ERP & CRM



<http://www.compiere.org/>

DMS

Dokumenten Management System



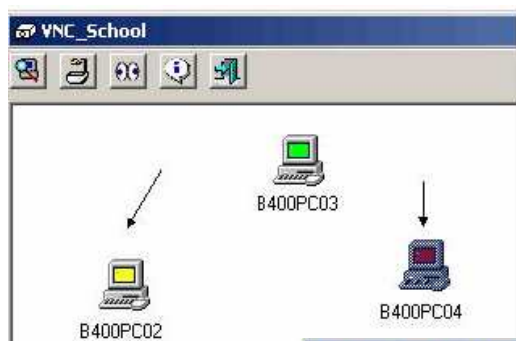
The screenshot shows the KnowledgeTree web interface. The main content area displays a table of documents under the path 'Root Folder > Default Unit (12 folders, 0 documents)'. The table has columns for Title, Description, Creator, Date Created, and Document Type. The documents listed are:

Title	Description	Creator	Date Created	Document Type
another		Unit Administrator		
antony		Unit User		
ateussz	ryryrtyrtyr	Unit Administrator		
boopsters		Unit User		
country	country docs	Unit User		
CrossTest	Testing links to other folders	Unit Administrator		
René	Français!	Unit Administrator		
Test		Unit Administrator		
Test2		Unit User		
testt		Unit Administrator		
Top Secret Teen Porn	A collection of naked chicks	Unit Administrator		
vha		Unit User		

At the bottom of the table, it states: 'This folder contains no documents'.

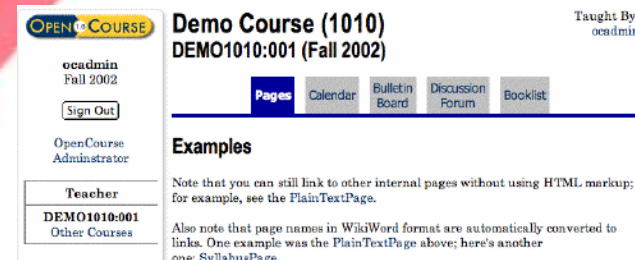
Für die Bildung

VNC-School



OPEN 1.0 COURSE

- ✓ Online Learning
- ✓ e-Education
- ✓ e-Learning
- ✓ Virtuelle Klassenräume



oadmin
Fall 2002
Sign Out
Open Course Administrator

Teacher
DEMO1010:001
Other Courses

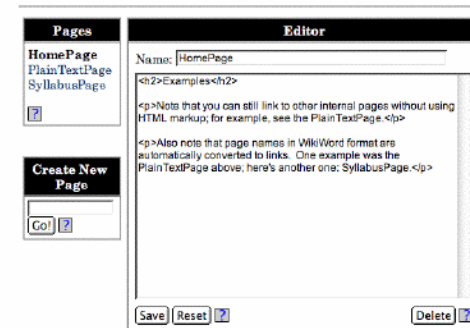
Taught By
oadmin

Pages | Calendar | Bulletin Board | Discussion Forum | Booklist

Examples

Note that you can still link to other internal pages without using HTML markup; for example, see the PlainTextPage.

Also note that page names in WikiWord format are automatically converted to links. One example was the PlainTextPage above; here's another one: SyllabusPage.



Pages | Editor

HomePage
PlainTextPage
SyllabusPage

Name: HomePage

<2>Exemples</2>

<p>Notes that you can still link to other internal pages without using HTML markup; for example, see the PlainTextPage.</p>

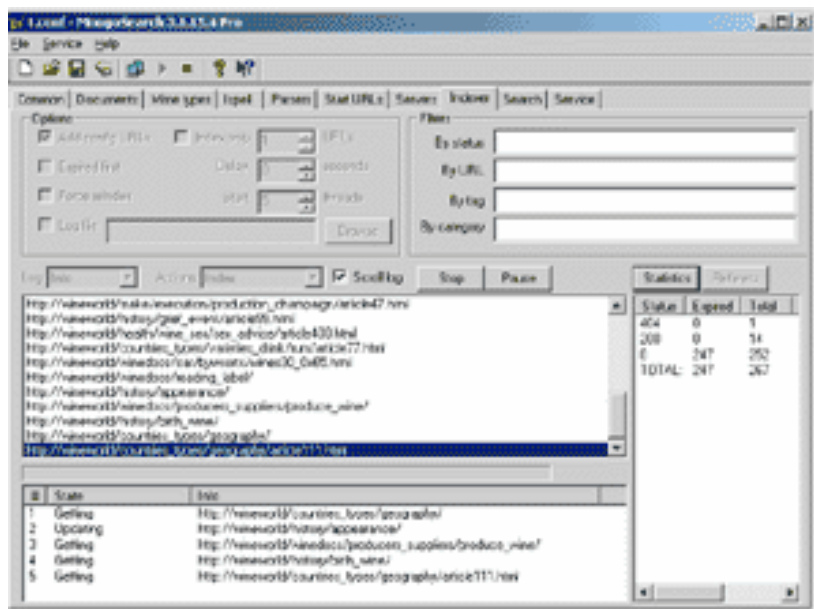
<p>Also note that page names in WikiWord format are automatically converted to links. One example was the PlainTextPage above; here's another one: SyllabusPage.</p>

Create New Page

Go!

Save | Reset | Delete

Suchmaschinen



mnoGoSearch is a full-featured web search engine software for intranet and internet servers.

mnoGoSearch software has a number of unique features, which makes it appropriate for a wide range of applications from search within your site to specialized search systems such as cooking recipes or newspaper searches, ftp archive search, MP3 search, news articles search or even national-wide portal search engine.

Our search software consists of two parts. The first is an indexing mechanism (indexer). The purpose of the indexer is to walk through HTTP, FTP, NEWS servers or local files, recursively grabbing all the documents and storing words meta-data about those documents in a database in a smart and efficient manner.

OpenSource aber NICHT Kostenfrei!

Softwareentwicklung

- ✓ Für die Entwickler von Programmen ist es immer wieder ein mühsames Unterfangen zum (zumeist sehr komplexen) Programm nebenbei oder wohl eher hinterher auch eine Dokumentation für andere Entwickler zu erstellen.



- ✓ <http://www.doxygen.org>

C, C++, C#
Java
Objective-C
IDL (Corba und Microsoft flavors)
PHP, und D.

Softwareentwicklung

Quellcodeverwaltung



<https://www.cvshome.org/>



<http://subversion.tigris.org/>

Softwareentwicklung

Softwareverteilung



Nullsoft Scriptable Install System
<http://nsis.sourceforge.net/>

- ✓ **Small overhead size**
- ✓ **Compatible with all major Windows versions**
- ✓ **Unique compression methods**
- ✓ **Script based**
- ✓ **Multiple languages in one installer**
- ✓ **Many features and checks for the target system**
- ✓ **Custom dialogs and interfaces**
- ✓ **Plug-in system**
- ✓ **Support for web installation, file patching**
- ✓ **Project integration, different releases and automatic builds**
- ✓ **Easy and human readable file formats**

Backup

PersonalBackup

Restore overview for Jhon Doe

List Machines: Share: jh-mat

Month	November	Year	2004			
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				
3	M	T	W	T	F	S

Restore point information of 08/11/2004

Backup Status: Successful

Backup Archived: No

Backup Type: Full

Total Backup up Files: 386

Total Backup Size: 110.153Mb

Total Skipped Files: 100

Total Skipped Size: 2.46 Mb

Total Failed Files: 2

Backup Limit Size: Unlimited

Backup Compression: 1:1

Backup Error Rate: 00:01:25

Backup Completion time: 00:01:37

Backup Location: \\mat\PersonalBackup\user20044656\ic_mail_6d1.tar.gz

Legend

- Backup failed
- Backup in empty
- Full backup
- Incremental Backup

Select files/folders to restore

- win
- Logitech.exe
- Avast
- InfoVox
- New Text Document.txt
- netcat
- INFOVox.SX
- netcat
- netcat
- log_another.exe
- netcat
- win
- netware
- personalbackup.exe
- Avast.log
- infoVox
- infoVox.exe
- InfoVox.exe

Depending on your selection this can take a while... Restore

<http://personalbackup.sourceforge.net>



BackupPC Backup browse for desktop116

Host: desktop116

- You are browsing backup #97, which started around 7/3 10:00 (5.1 days ago).
- Click on a directory below to navigate into that directory.
- Click on a file below to restore that file.

Contents of /c/DRIVERS/17JFR

Name	Type	Mode	Size	Mod time
Select all				Restore selected files
ATFCCHXX.HL	file	0644	6137	2000/4/11 13:45:18
ATFCCHXX.HL	file	0644	6437	2000/3/18 12:10:22
ATFENUXX.HL	file	0644	6314	2000/2/25 10:37:48
ATFESVXX.HL	file	0644	7272	2000/3/23 18:18:12
ATFFRAXX.HL	file	0644	7425	2000/3/22 10:03:42
ATFFPNXX.HL	file	0644	6371	2000/3/2 15:01:16
ATFFROXX.HL	file	0644	6698	2000/3/27 14:36:32
ATFFTHXX.HL	file	0644	7564	2000/3/9 02:38:30
ATFFHAXX.HL	file	0644	6333	2000/4/19 08:57:24
ATFDVAI.DL	file	0644	138955	2000/8/23 17:22:02
ATFEVXX.EX	file	0644	30826	2000/6/23 15:29:56
ATZMTAL.SY	file	0644	164207	2000/8/23 17:12:42
ATTRKAL.CAT	file	0644	53202	2000/9/11 16:56:30
ATTRKAL.FNE	file	0644	34982	2000/8/31 18:29:56
ATTRKAL.FNE	file	0644	50388	2001/1/4 19:55:25
ATTCDCXX.DL	file	0644	146872	2000/8/15 12:53:48
ATTCDCXX.SY	file	0644	2737	2000/3/23 15:17:44
ATTCDCXX.VX	file	0644	4878	2000/3/23 15:17:44
ATTCPCXX.DLL	file	0644	22048	2000/7/20 12:57:46
Select all				Restore selected files

<http://backuppc.sourceforge.net/>

Nützliches (Freeware)

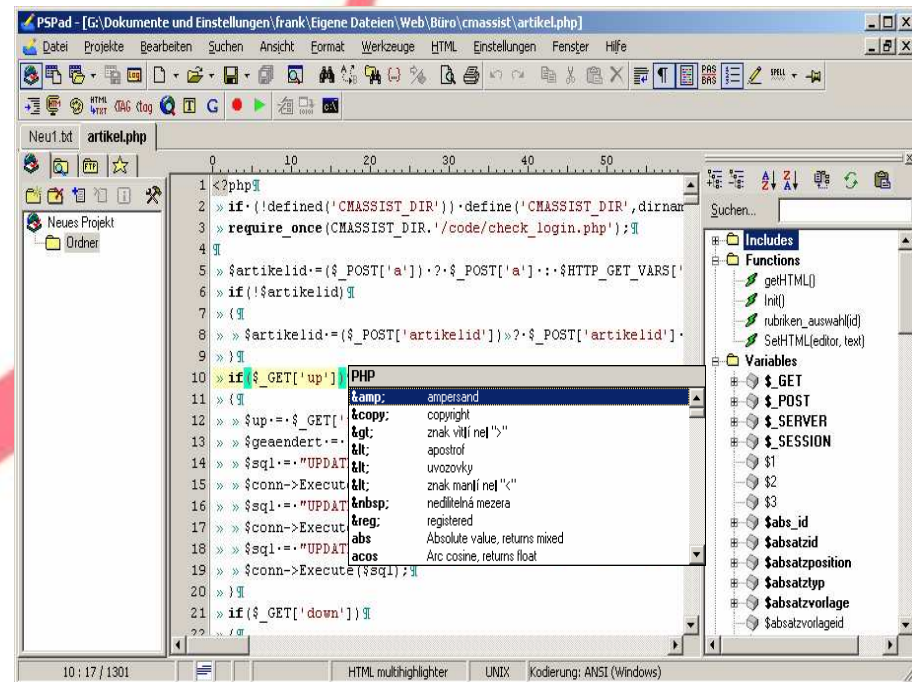
PDFCREATOR

PDFCreator ist ein kostenloses Tool um auf einfache Weise PDFs aus jeder beliebigen Anwendung zu erstellen. Über einen Druckertreiber wird direkt aus jeder Anwendung eine PDF-Maschine.

<http://sector7g.wurzel6.de/pdfcreator/freeware>



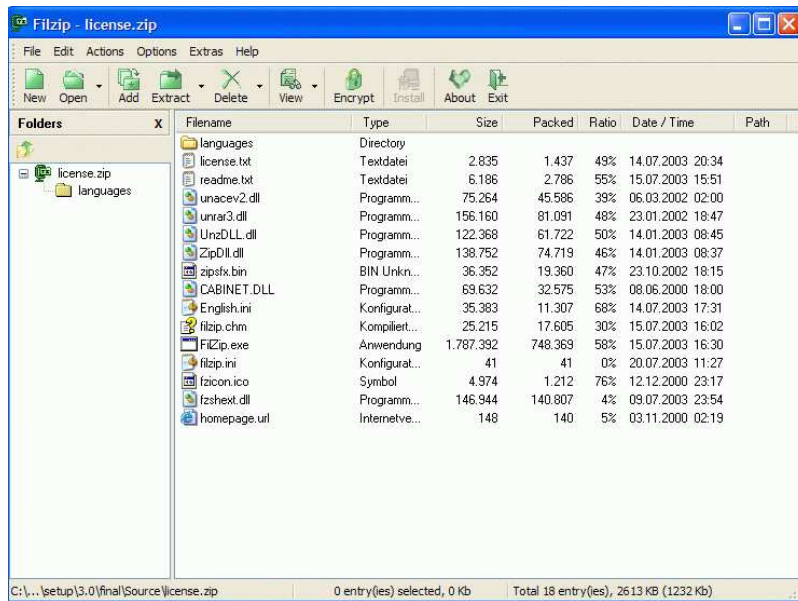
Texteditor der extra Klasse



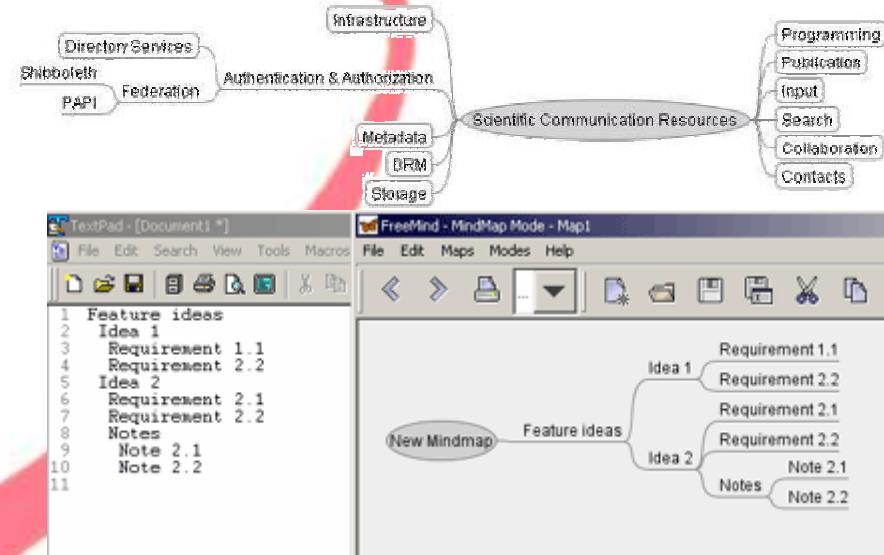
<http://www.pspad.com/>

Nützliches (Freeware)

 www.Filzip.de

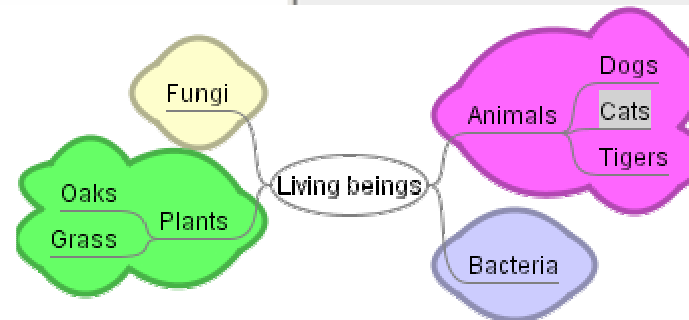


 **FreeMind**



Voller Zugriff (lesen & schreiben) auf folgende Archivformate:
ZIP (auch Quake III PK3 Dateien), BH (BlakHole), CAB
(Microsoft Cabinet), JAR (JavaARchive), LHA (LZH), TAR and
GZIP(TAR.GZ)

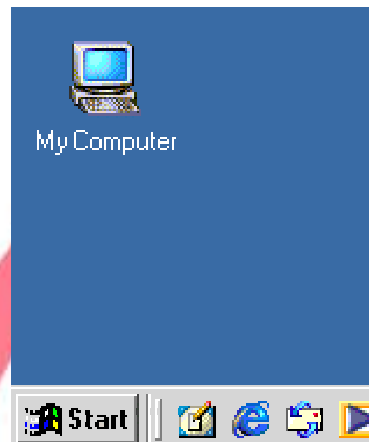
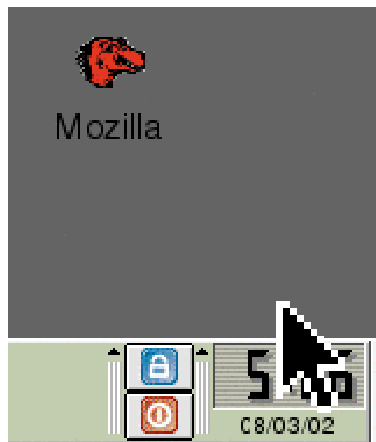
Nur entpacken (lesen): ACE, ARC, ARJ, RAR, ZOO
zugriff auf für das Internet kodierte Dateien .UUE and .XXE



 <http://freemind.sourceforge.net>

Nützliches (OpenSource)

Synergy



Eine Maus, eine Tastatur
– beliebig viele PC's

<http://synergy2.sourceforge.net>

- ✓ **Microsoft Windows 95, Windows 98, Windows Me (the Windows 95 family)**
- ✓ **Microsoft Windows NT, Windows 2000, Windows XP (the Windows NT family)**
- ✓ **Mac OS X 10.2 or higher**
- ✓ **Unix**
- ✓ **X Windows version 11 revision 4 or up**
- ✓ **XTEST extension**