

Open Source

Im Zeitalter von Web 2.0 und iPhone

Till Hänisch, DHBW Heidenheim, 13.10.2011

Agenda

- Was ist das überhaupt
- Open Source vs. Freie Software
- Für wen ist das interessant
- einige Beispiele und Geschäftsmodelle

Source code

```
static bool compare_css_sets(struct css_set *cg,
                            struct css_set *old_cg,
                            struct cgroup *new_cgrp,
                            struct cgroup_subsys_state *template[])
{
    struct list_head *l1, *l2;

    if (memcmp(template, cg->subsys, sizeof(cg->subsys))) {
        /* Not all subsystems matched */
        return false;
    }

    /*
     * Compare cgroup pointers in order to distinguish between
     * different cgroups in hierarchies with no subsystems. We
     * could get by with just this check alone (and skip the
     * memcmp above) but on most setups the memcmp check will
     * avoid the need for this more expensive check on almost all
     * candidates.
     */

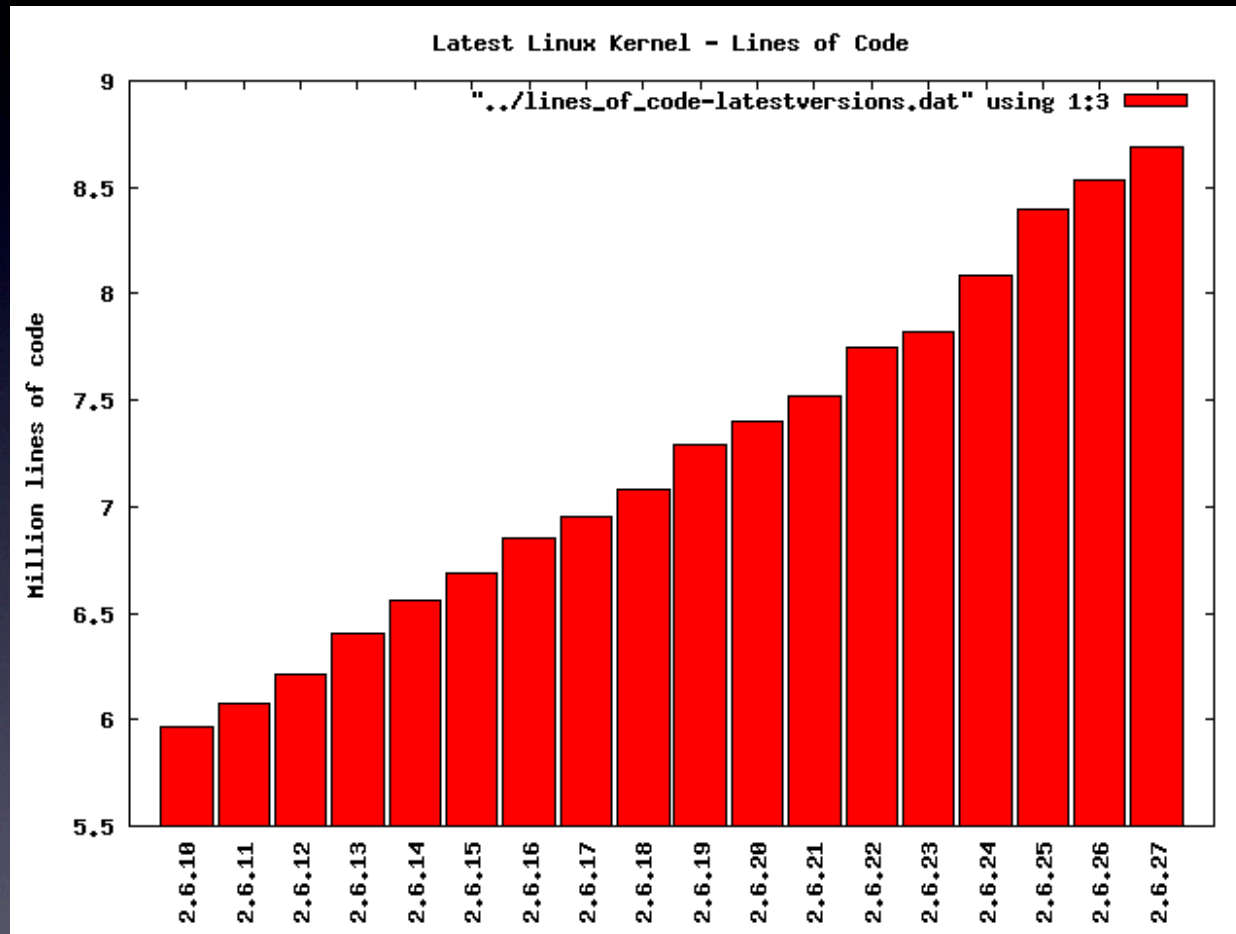
    l1 = &cg->cg_links;
    l2 = &old_cg->cg_links;
    while (1) {
        struct cg_cgroup_link *cgl1, *cgl2;
        struct cgroup *cg1, *cg2;

        l1 = l1->next;
        l2 = l2->next;
        /* See if we reached the end - both lists are equal length. */
        if (l1 == &cg->cg_links) {
            BUG_ON(l2 != &old_cg->cg_links);
            break;
        } else {
            BUG_ON(l2 == &old_cg->cg_links);
        }
        /* Locate the cgroups associated with these links. */
        cgl1 = list_entry(l1, struct cg_cgroup_link, cg_link_list);
        cgl2 = list_entry(l2, struct cg_cgroup_link, cg_link_list);
        cg1 = cgl1->cgrp;
        cg2 = cgl2->cgrp;
    }
}
```



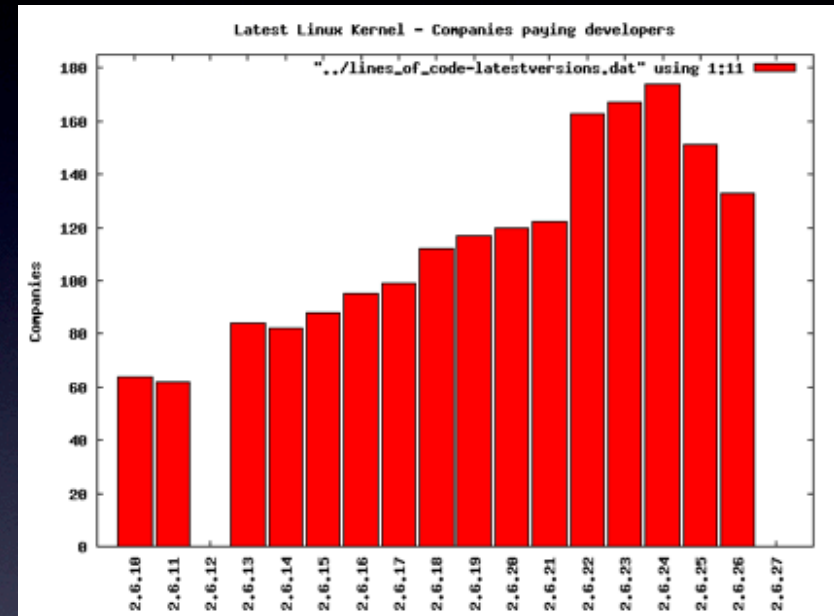
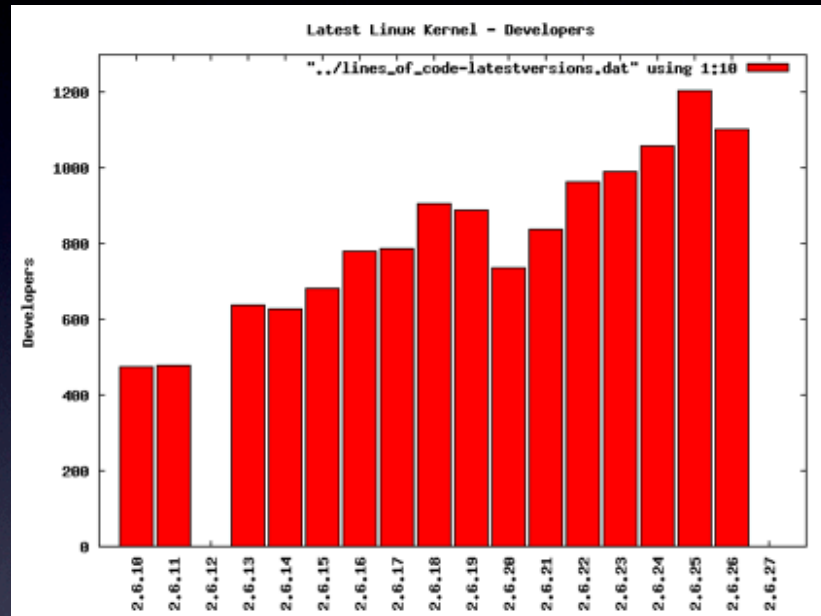
Programme können
an eigene Bedürfnisse
angepaßt werden

Beispiel: Linux



„mal eben“ geht das bei ca. 9 Millionen Zeilen Code nicht

von wem ?



Inzwischen Entwicklung hauptsächlich durch Firmen.

Warum ?

Viele Gründe

etwa: Verwendung in eigenen Produkten (z.B. DSL-Router)

Freie Software

- Freiheit, mit der Software alles machen zu können
- Gegenbeispiel: Hersteller/Eigentümer beendet Support (Windows NT)
- Nicht (zwingend) „kostenlos“

Wann ist das wichtig ?

- Bei ganz großen Anbietern
 - Die Druck ausüben könnten
- Bei ganz kleinen Anbietern
 - Die Pleite gehen könnten

Vorteile

- Programme können angepaßt werden
 - i.A. durch Firmen, nicht durch Nutzer
- meist keine Lizenzgebühren
 - nicht (!) kostenlos (Betrieb)
- keine Einschränkung in der Nutzung
- oft hohe Qualität
 - durch große Anzahl Nutzer und Entwickler

Nachteile

- Kein „Eigentümer“ der Software
 - keine Haftung
 - keine Garantien für Weiterentwicklung und Support
 - Realität ?
- Unübersichtlich, kaum Marken
 - Gegenbeispiel: Linux, apache

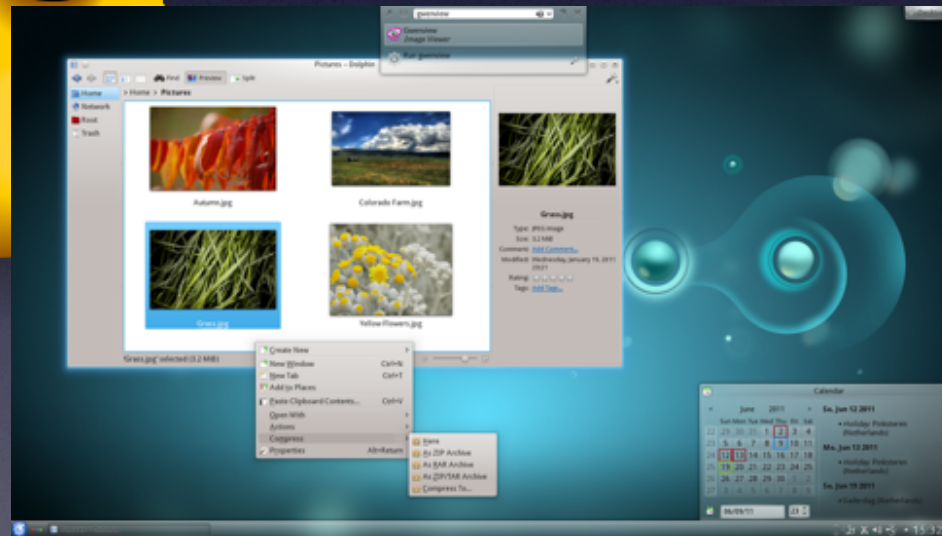
Für wen ?

- Privatnutzer
 - Spieltrieb, Privatlizenzen sind meist billig
- große Unternehmen
 - oft im backend, kaum für Endnutzer
 - Gegenbeispiel: Stadt München, Gendarmerie (Frankreich)
- kleine Unternehmen
 - hier wird's interessanter !

Beispiele

- Linux
- Open Office
- Infrastruktur
- Entwicklungswerkzeuge
- Spezialanwendungen

Linux





0,00cm Schw Farbe Blau 8

Folien



Folie 1



Folie 2



Normal Gliederung Notizen Handzettel Foliensortierung

Open Source

Im Zeitalter von Web 2.0 und iPhone

Till Hänisch, DHBW Heidenheim, 13.10.2011

Aufgabenbereich Anzeige

Masterseiten
Layouts
Tabellen

Designs

Anzeigen

- Kopfzeile
- Summenzeile
- Alternierende Zeilen
- Erste Spalte
- Letzte Spalte
- Alternierende Spalten
- Benutzerdefinierte Animation
- Folienübergang



SweetHome3D

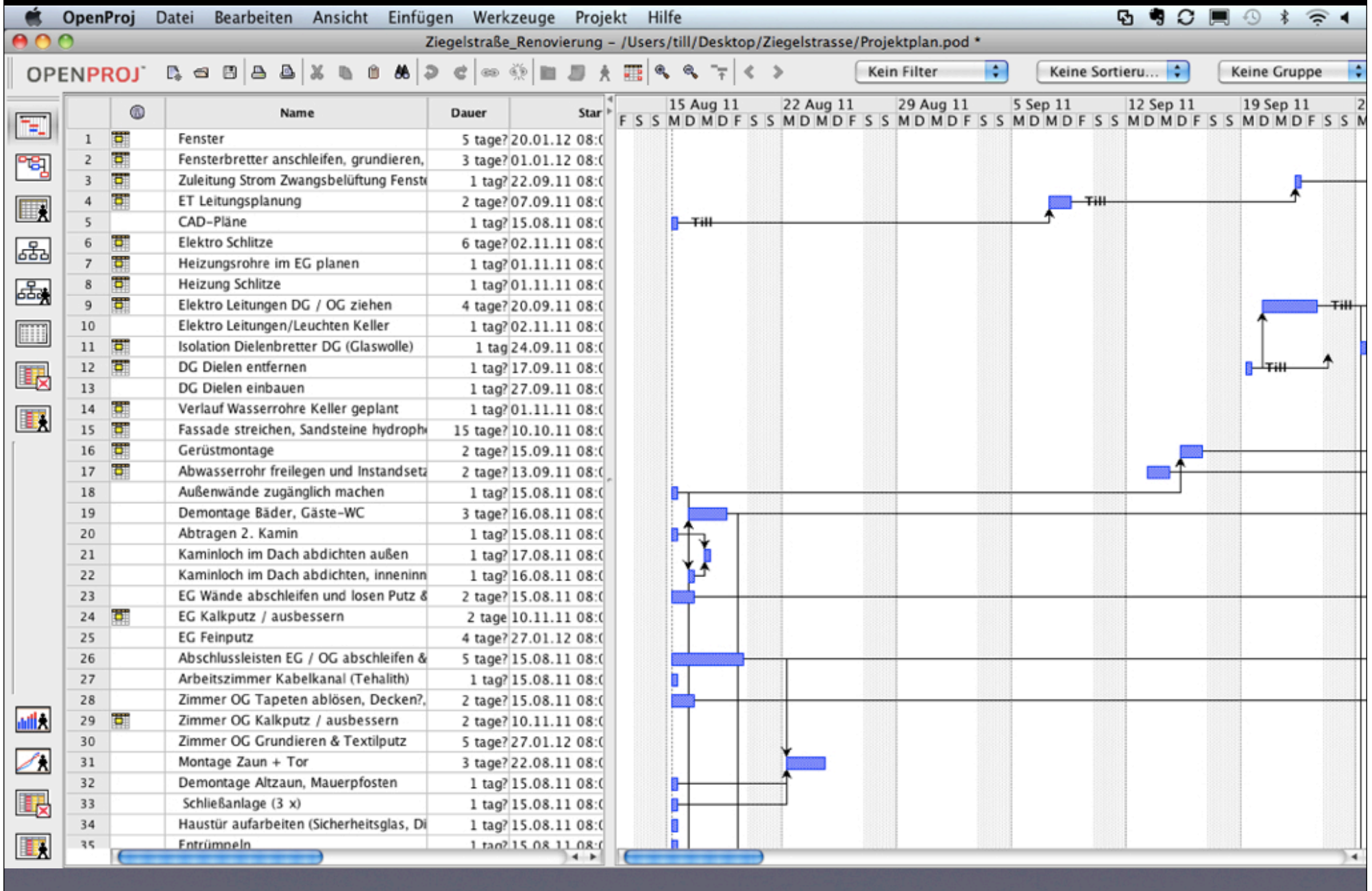
The screenshot displays the Sweet Home 3D software interface. The top menu bar includes 'Sweet Home 3D', 'Datei', 'Bearbeiten', 'Möbiliar', 'Plan', '3D-Ansicht', 'Fenster', and 'Hilfe'. The title bar shows the file name 'Ziegelstraße_EG_Moebel.sh3d'. The main workspace is divided into three sections:

- Left Panel:** A tree view showing room categories: Badezimmer, Küche, Lampen, Schlafzimmer, Türen und Fenster, Verschiedenes, and Wohnzimmer.
- Top Panel:** A 2D floor plan on a grid. Dimensions are labeled in centimeters: 427, 125, 49, 98, 118, 55, 175, 28, 369, 37, 321, 76, 84, and 50. A note 'Mass Küchentür fehlt' is present. The grid is numbered from -2 to 9 horizontally and 3 to 7 vertically.
- Bottom Panel:** A 3D perspective view of the house with furniture like a table, chairs, and a sofa.

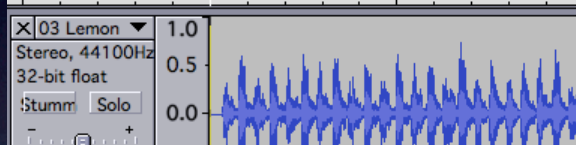
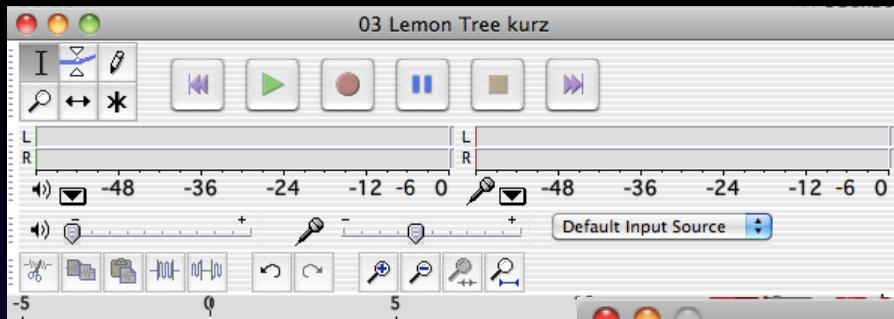
At the bottom left, there is a table listing objects:

Name	B...	Ti...	H...	Sicht...
Tür	108	3...	2...	<input checked="" type="checkbox"/>
Tür	119	3...	2...	<input checked="" type="checkbox"/>
Tür	120	3...	2...	<input checked="" type="checkbox"/>
Fenster	103	6...	167	<input checked="" type="checkbox"/>
Französische...	180	6...	167	<input checked="" type="checkbox"/>
Fenster	102	6...	167	<input checked="" type="checkbox"/>
Fenster	120	6...	167	<input checked="" type="checkbox"/>
Fenster	102	6...	166	<input checked="" type="checkbox"/>
Fenster	102	6...	166	<input checked="" type="checkbox"/>
Tür	120	3...	2...	<input checked="" type="checkbox"/>
Tür	120	3...	2...	<input checked="" type="checkbox"/>

OpenProj



und viele andere ...



```
Tables_in_script_development
+-----+
| apps
| schema_migrations
| sections
| users
+-----+
4 rows in set (0.00 sec)

mysql> describe apps;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id         | int(11)       | NO   | PRI | NULL    | auto_incr |
| name      | varchar(255) | YES  |     | NULL    |           |
| code      | mediumblob   | YES  |     | NULL    |           |
| content_type | varchar(255) | YES  |     | NULL    |           |
| created_at | datetime     | YES  |     | NULL    |           |
| updated_at | datetime     | YES  |     | NULL    |           |
| sizeX     | int(11)      | YES  |     | NULL    |           |
| sizeY     | int(11)      | YES  |     | NULL    |           |
| classname | varchar(100) | YES  |     | NULL    |           |
| source    | mediumtext   | YES  |     | NULL    |           |
| pre      | text         | YES  |     | NULL    |           |
| post     | text         | YES  |     | NULL    |           |
| position | int(11)      | YES  |     | NULL    |           |
| section_id | int(11)      | YES  |     | NULL    |           |
| app_type  | varchar(20)  | YES  |     | NULL    |           |
| source_visible | tinyint(1) | YES  |     | NULL    |           |
| level_prof | int(11)     | YES  |     | NULL    |           |
| level_student | int(11)    | YES  |     | NULL    |           |
+-----+-----+-----+-----+-----+-----+

```

```
public ParameterModel(String Company) {
    this.Company = Company;
    retrieve();
}

public void retrieve() {
    Connection conn;
    Parameters = new HashMap<String, Parameter>();
    try {
        conn = DBConnection.getConnection();
        Statement s = conn.createStatement();
        ResultSet rs = s.executeQuery("select distinct ParameterName as Name from Parameter");
        while (rs.next()) {
            Parameter p = new Parameter(rs.getString("Name"));
            Parameters.put(p.getName(), p);
        }
    } catch (SQLException e) {
        e.printStackTrace();
    }
}

ParameterModel() {
    Parameters = new HashMap<String, Parameter>();
}

Parameter(String Name) {
    this.setName(Name);
}

Parameter(String Name, String Company, Date startDate, Date endDate, String Parameter) {
    this.setName(Name);
    this.setCompany(Company);
    this.setStartDate(startDate);
    this.setEndDate(endDate);
    this.setParameter(Parameter);
}

```

Firefox
Version 3.0.8

©1998-2008 Contributors. All Rights Reserved.
Firefox and the Firefox logos are trademarks of the Mozilla Foundation. All rights reserved.

Mozilla/5.0 (Macintosh; U; Intel Mac OS X 10.6; de; rv:1.9.0.8) Gecko/2009032608 Firefox/3.0.8

Danksagungen

VLC media player

VTS_01_1.VOB 00:39

Welcome to
Hackety Hack

Ready

Im Unternehmen ...

- Bisher Software für Endanwender
- „Programme“, die auf dem PC installiert und benutzt werden
- Im Unternehmensumfeld ?
 - Installation
 - Customizing
 - Betrieb
 - Lizenzkosten nur ein Teil der Gesamtkosten

Beispiel: Asterisk

The screenshot shows the Asterisk website homepage. At the top left is the Asterisk logo (an asterisk in a speech bubble) and the word "Asterisk". To the right is a search bar and a "Search" button. Below the logo is a navigation menu with links: Home, Downloads, Forums, Community, Applications, Support, Developers, Documentation, and Video. The main banner features the text "Open Source Communications" and a description of Asterisk as software that turns a computer into a communications server. It mentions that Asterisk powers IP PBX systems, VoIP gateways, and conference servers. A woman is shown smiling while talking on a mobile phone. Below the banner are four orange buttons: "Learn More", "Get Started Video", "Find Your Asterisk Solution", and "Community Marketplace".

Open Source Communications

Asterisk is software that turns an ordinary computer into a communications server. Asterisk powers IP PBX systems, VoIP gateways, conference servers and [more](#). It is used by small businesses, large businesses, call centers, carriers and governments worldwide. Asterisk is free and open source. Asterisk is sponsored by [Digium](#)

[Learn More](#) [Get Started Video](#) [Find Your Asterisk Solution](#) [Community Marketplace](#)

Switchvox® or Asterisk® ?
Looking for a business phone system?
Discover which is right for you – the Asterisk communications toolkit or the Switchvox business phone system.

Learn Asterisk® Online!
Asterisk Essentials lets you learn by example.
Worldwide access to over 6 hours of video training so you can follow along at your own pace.

\$299
introductory price

ASTERISK SUPPORT
Digium offers around-the-clock support for Asterisk.

UPCOMING EVENTS
AstrCon 2011
ASTERISK USER CONFERENCE & EXPO
October 25-27
Denver, Colorado
[Register Now](#)

TELEPHONY CARDS
Gateway interface cards for analog, T1, E1, ISDN BRI, ISDN PRI and SS7 networks.

UPCOMING WEBINARS
Say Hello To Asterisk
New to Asterisk? Take a tour of Asterisk and discover how open source communications can help your business. Learn:

- * What is Asterisk?
- * How does Asterisk work?
- * What can I do with Asterisk?

Geschäftsmodell: Support/Lösung wird verkauft

Beispiel: Sugar CRM

Products | Resources | Services | Open Source | Customers | Partners | Store

CRM Made **Mobile**

Work the Way You Want,
Wherever You Want.

Simple, Secure and With You When You Need It:
SugarCRM Made Mobile



Discover the Sweet Possibilities with a **7 Day Free Trial** 

● ● ●



**More Leads, More Sales,
More Customers - Business CRM**

SugarCRM helps your business communicate with prospects, share sales information, close deals and keep customers happy.

[Sales Demo](#) | [CRM Overview Demo](#)

Flexible, Open, Affordable Business CRM

Discover the benefits of open source CRM. SugarCRM is an affordable web-based CRM solution for small- and medium-sized businesses. Offered in the Cloud or on-site, it is easy to customize and adapt to the way you do business.

[Editions & Pricing](#) | [CRM Resources](#)

OVER 7,000 SUCCESSFUL CUSTOMERS | [Read Stories](#) | [Watch Videos](#)

AVIS  **IBDO** *Coca-Cola Enterprise* **HARRIS**  **LOOMIS**  



Products

Editions & Pricing

Sales Force Automation

Marketing Automation

Customer Support

Global

Mobile CRM

Social CRM

Reporting

Email CRM Integration

Platform

Project & Activity Management

SugarCRM for LotusLive

New in Sugar

SugarCRM on IBM

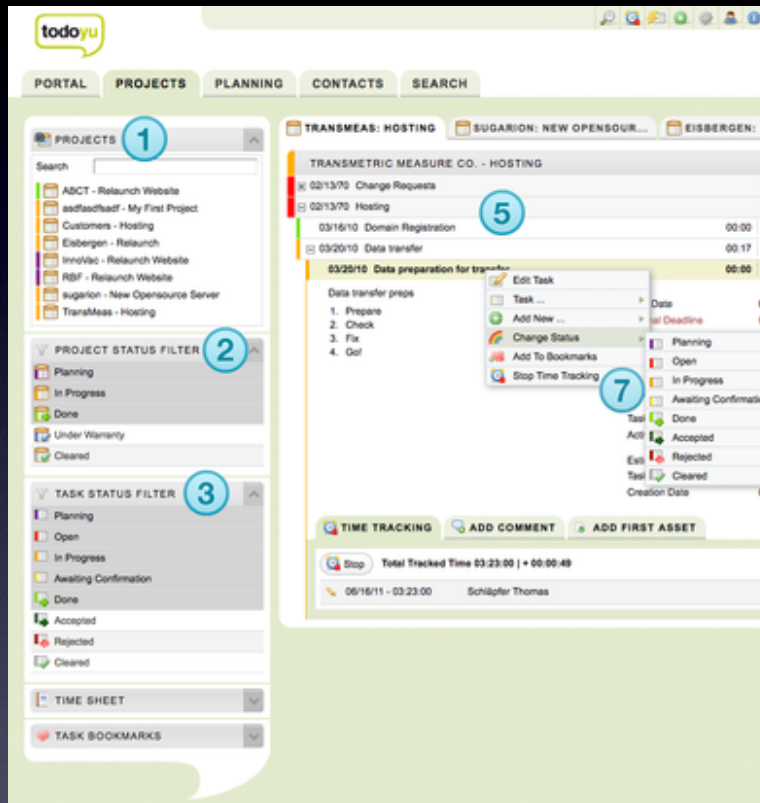
Sugar Subscriptions & Pricing

	MOST POPULAR		
<u>Sugar Professional</u>	<u>Sugar Corporate</u>	<u>Sugar Enterprise</u>	<u>Sugar Ultimate</u>
\$360/user/year	\$540/user/year	\$720/user/year	\$1,200/user/year
ADD TO CART	ADD TO CART	ADD TO CART	ADD TO CART

Each edition includes:

- ✓ Full sales, marketing and support automation, email integration, reporting, team selling, advanced security, workflow automation, social CRM;
- ✓ Support for 22 languages, unlimited API calls, regular back-ups of your customer data;
- ✓ Choice of either on-premise or cloud-based CRM deployment - plus more:

Verdienen am Betrieb



todayu SaaS Packages

Trial

Free
for 30 days

20 projects
10 users

Portal
Projects and Tasks
Team Collaboration
Time Tracking
Group Calendar
Contacts
Reporting
Saved Search and Filters
Client Access

Enhanced security
Free trial for 30 days

[TRY NOW](#)

Max

\$139/month
TOP-NOTCH

Unlimited projects
Unlimited users

Portal
Projects and Tasks
Team Collaboration
Time Tracking
Group Calendar
Contacts
Reporting
Saved Search and Filters
Client Access
Burn Down Report
Calendar Export (iCal)
Project Billing

Enhanced security
Free updates
Realtime backup

[CHOOSE PLAN](#)

Medium

\$79/month
THE-MOST-POPULAR

50 projects
25 users

Portal
Projects and Tasks
Team Collaboration
Time Tracking
Group Calendar
Contacts
Reporting
Saved Search and Filters
Client Access
Burn Down Report
Calendar Export (iCal)

Enhanced security
Free updates

[CHOOSE PLAN](#)

Starter

\$39/month
TO-BEGIN-WITH

20 projects
10 users

Portal
Projects and Tasks
Team Collaboration
Time Tracking
Group Calendar
Contacts
Reporting
Saved Search and Filters
Client Access

Enhanced security
Free updates

[CHOOSE PLAN](#)

Download

Open Source - Free
GEEKS-AND-DEVS

Download the source
of todayu - it's free.

The open source version
of todayu comes with an
installer.

But be aware, it requires
substantial technical
expertise to install and
maintain.

No warranty.
Community support only.

[Download](#)

Die Software gibt's umsonst, der Betrieb kostet Geld ...
Beispiel: www.todayu.com

„Sparversion“ umsonst

The screenshot shows the KnowledgeTree website with a navigation bar containing 'Features', 'Solutions', 'Pricing', 'Blog', and 'Company', along with a 'Free eBook Download' button. A warning message states: 'KnowledgeTree Community Edition is unsupported, untested software and not designed for production use. KnowledgeTree Inc. does not warrant this software in any way.' Below this, a green banner asks: 'Looking for a full-featured, supported version of KnowledgeTree? KnowledgeTree's cloud service. See edition differences'. A list of links includes 'System Requirements', 'Release Notes', 'Installation and Upgrade Guide', and 'What's new document (3.6 KB)'. The pricing section features three columns: 'Team' at \$14 per user per month, 'Company' at \$20 per user per month, and 'Enterprise' with a 'Contact for details' button. Each column lists key features and benefits.

KnowledgeTree®
Features Solutions Pricing Blog Company [Free eBook Download](#)

KnowledgeTree Community Edition is unsupported, untested software and not designed for production use. KnowledgeTree Inc. does not warrant this software in any way.

Looking for a full-featured, supported version of KnowledgeTree? KnowledgeTree's cloud service. [See edition differences](#)

- [System Requirements](#)
- [Release Notes](#)
- [Installation and Upgrade Guide](#)
- [What's new document \(3.6 KB\)](#)

Team	Company	Enterprise
\$14 per user per month	\$20 per user per month	Contact for details
Powerful functionality that helps teams share and work on documents. Plus, Smart Alerts that help teams stay on top of changing documents.	Simplifies how businesses manage and share documents across large groups. Organize content and streamline document-led business processes. Identify documents that are valuable to your team. Collaborate effectively with key business documents. Access documents available anywhere.	Includes all features in the Company Edition, plus rich tools that support IT. Govern which content team members can access Manage deployment with an SLA, personal support, and LDAP, Single-Sign-On, e-Signatures, and Active Directory coverage Customize to include your own branding Rich analytics provide deep insight into your document vault.

Es gibt eine kostenlose „Community Edition“, die in der Funktion beschränkt ist. Die Vollversion kostet.
Beispiel: knowledgetree.com

Fragen ?

Prof. Till Hänisch

haenisch@dhw-heidenheim.de

Tel. 07321 2722-292

Duale Hochschule Baden-Württemberg Heidenheim

Wirtschaftsinformatik

Marienstrasse 20

89518 Heidenheim