open source business 101
(for hackers)

ross turk
introduction
who am I?
double agent
corporate listening device
SourceForge, Inc.
(the company)
consumers
the FOSS community at large
rturk@corp.sourceforge.com
(email/jabber)
outsider’s view of business
Agenda

one: If I’m A Hacker, Why Should I Care?
two: Prerequisite Soul-Searching
three: Making Money or: How I Learned to Stop Worrying and Love the Money
four: Business-y Things That Also Apply to Open Source
one:
why should I care?
“The dot-com bubble crash wiped out $5 trillion in market value of technology companies from March 2000 to October 2002.”

The Los Angeles Times
Sunday, July 16, 2006
“The tumbling Nasdaq triggered a vicious circle in which lower stock values dampened IT spending and contributed to a broader economic downturn, which in turn put further pressure on technology spending and share prices”

IDC
May 2001
“IT spending will decline about 3 percent in 2009”

Forester Research
January 2009
SourceForge Downloads in 2008


SourceForge.net®
acquisitions
Well-known Open Source Acquisitions

- Gluecode: $10m
- Sleepycat: $35m
- SuSE: $210m
- JBoss: $350m
- Zimbra: $350m
- XenSource: $500m
- MySQL: $1,000m
“[I expect] to see an increase in M&A activity related to open source in the first half of next year.”

Matthew Aslett, 451 Group
November 20, 2008
you can still make a decent living
it doesn’t have to be about greed
money is good for things besides keeping to yourself
money is good for things besides keeping to yourself
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money is good for things besides keeping to yourself
not interested?
someone else might be
two:
prerequisite soul-searching
should software be free?
should software be free?
should software be free?

a) yes, always, no exceptions for any reason
should software be free?

a) yes, always, no exceptions for any reason

b) yes, whenever practical
should software be free?

a) yes, always, no exceptions for any reason

b) yes, whenever practical

c) yes, unless there’s a way to make worthwhile money restricting it
should software be free?

a) yes, always, no exceptions for any reason

b) yes, whenever practical

c) yes, unless there’s a way to make worthwhile money restricting it

d) only if it can be useful to someone else
should software be free?

a) yes, always, no exceptions for any reason

b) yes, whenever practical

c) yes, unless there’s a way to make worthwhile money restricting it

d) only if it can be useful to someone else

e) no...why on earth would you wanna do that?
how would you feel if someone else profited from your work?
how would you feel if someone else profited from your work?
how would you feel if someone else profited from your work?

a) cool, whatever!
how would you feel if someone else profited from your work?

a) cool, whatever!

b) fine, as long as i get credit
how would you feel if someone else profited from your work?

a) cool, whatever!

b) fine, as long as i get credit

c) fine, as long as they contribute to my work
how would you feel if someone else profited from your work?

a) cool, whatever!

b) fine, as long as i get credit

c) fine, as long as they contribute to my work

d) they can include it in solutions they sell, as long as they don’t
how would you feel if someone else profited from your work?

a) cool, whatever!
b) fine, as long as i get credit
c) fine, as long as they contribute to my work
d) they can include it in solutions they sell, as long as they don’t
e) no, i don’t want anyone using my work for commercial purposes
why do you create open source?
why do you create open source?
why do you create open source?

a) because i want people to know who i am
why do you create open source?

a) because i want people to know who i am

b) because someone told me to (i.e., my boss, my teacher, my mom...)

Sunday, January 18, 2009
why do you create open source?

a) because i want people to know who i am

b) because someone told me to (i.e., my boss, my teacher, my mom...)

c) because i want to start a business
why do you create open source?

a) because i want people to know who i am

b) because someone told me to (i.e., my boss, my teacher, my mom...)

c) because i want to start a business

d) because i find it fun and stimulating
why do you create open source?

a) because i want people to know who i am

b) because someone told me to (i.e., my boss, my teacher, my mom...)

c) because i want to start a business

d) because i find it fun and stimulating

e) because the world needs more free software
three:
Making Money or: How I Learned to Stop Worrying and Love the Hard Cash
open source / proprietary hybrid
proprietary extensions
proprietary extensions

core functionality / “community” edition
proprietary extensions

**core functionality / “community” edition**

**backup / restore**
proprietary extensions

core functionality / “community” edition

full text search  backup / restore
proprietary extensions

core functionality / “community” edition

full text search  backup / restore  email integration
proprietary extensions

core functionality / “community” edition

full text search  backup / restore  email integration

“professional” edition
proprietary extensions

**core functionality / “community” edition**

- full text search
- backup / restore
- email integration

**“professional” edition**

- mobile support

SOURCEFORGE.NET®
proprietary extensions

core functionality / “community” edition

full text search  backup / restore  email integration

“professional” edition

mobile support  reporting
proprietary extensions

core functionality / “community” edition

full text search  backup / restore  email integration

“professional” edition

workflow engine  mobile support  reporting
proprietary extensions

core functionality / “community” edition

full text search  backup / restore  email integration

“professional” edition

workflow engine  mobile support  management console

reporting
proprietary extensions

core functionality / “community” edition

full text search | backup / restore | email integration

“professional” edition

workflow engine | mobile support | management console

clustering / HA | reporting

SOURCEFORGE.NET®
proprietary extensions

core functionality / “community” edition

full text search  backup / restore  email integration

“professional” edition

workflow engine  mobile support  management console

clustering / HA  reporting  cobranding support
proprietary extensions

core functionality / “community” edition

full text search | backup / restore | email integration

“professional” edition

workflow engine | mobile support | management console
clustering / HA | reporting | cobranding support

“enterprise” edition
pitfall #1

you have to have core functionality that’s so good that people will pay for more
pitfall #2

it can be seen as a bit evil in some circles

(see “should software be free?” above...)
evil? really?

depends on:

• who you are

• what you care about

• who you expect to get help from

• who you choose to sell to

choose wisely!
viral licenses: can you sell what you’ve built? do you have to give back?
services and support
services and support
services and support

open source project

services
services and support

open source project

services

customization
services and support

open source project

services

customization

installation
services and support

open source project

- services
- customization
- installation
- training
services and support

open source project

services

customization

installation

training

support
services and support

open source project

services
customization
installation
training

support
indemnity
installation
services and support

open source project

services
  customization
  installation
  training

support
  indemnity
  installation
  priority patches
services and support

open source project

services
- customization
- installation
- training

support
- indemnity
- installation
- priority patches
- troubleshooting
pitfall #1

other people can provide support and services for your stuff too!
certified service providers
pitfall #2

less chance of being seen as “evil”, but the margins are a bit slimmer...
supporting through networks

not big enough to hire sales people and put ‘em on planes? consider:

• OpenLogic Expert Community
• SourceForge Marketplace
• FindOpenSourceSupport.com
dual licensing
pitfall #1

enforcement
pitfall #2

when you really think about it, you’re not selling anything at all, are you?
fundraising
merchandising
Welcome

The Audacity Store is the place for Audacity users to purchase both Audacity clothing and accessories, and inexpensive electronics for home audio recording. All sales benefit the Audacity Developer Team. Today we offer men's and women's T-shirts, polo shirts, messenger bags, and the Griffin iMic, and we intend to offer more items over time.

Click on one of the categories below to begin shopping:
Debian Mouse Pad
These are not those flimsy 1/8" mouse pads most Web vendors sell. Our mouse pads have a 1/4"-thick foam pad, measure 8x7.5 inches, and a white fabric cover. Class up your cube with this little beauty and show your co-workers who the real guru is.
$8.50
Single-item S&H: $4.00
Second-item S&H (when ordered with other gear or CD Sets): $2.00

Linux Mouse Pad
These are not those flimsy 1/8" mouse pads most Web vendors sell. Our mouse pads have a 1/4"-thick foam pad, measure 8x7.5 inches, and a white fabric cover. Class up your cube with this little beauty and show your co-workers who the real guru is.
$8.50
Single-item S&H: $4.00
Second-item S&H (when ordered with other gear or CD Sets): $2.00

Debian Coffee Mug
Leave the company coffee mug in a desk drawer and walk into your meetings holding this and they'll see who's serious about coming up with IT solutions. This 11 oz. ceramic coffee mug has the Debian logo on both sides.
$10.50
Single-item S&H: $5.50
Second-item S&H (when ordered with other gear or CD Sets): $3.50
logistics (manufacturing, shipping)
advertising
Gallery 3 Begins

Submitted by cdkake on Mon, 2008-12-01 18:17

Those of you that have been paying attention know that something is going on! At the Gallery Sprint a few weeks ago, we made a lot of decisions and got the ball rolling on a complete rewrite which we've decided to call Gallery 3. Development of new features on Gallery 2 has been frozen, Gallery 1 is now a completely separate project "JGallery", and the Gallery team is now busy at work on Gallery 3. It's definitely not ready to run on your website yet but we've set the ambitious goal of having a 3.0 release by February 1, 2009 and are on track to meet that goal. Read on for details of why we're doing this and what you can expect.
This is the official website of **Gallery**, the open source web based photo album organizer. Gallery gives you an intuitive way to blend photo management seamlessly into your own website whether you're running a small personal site or a large community site.

More:
- About
- Related Sites
- Features
- Requirements
- Screenshots!
- Certified Web Hosts

**Gallery 3 Begins**

Submitted by ckdake on Mon, 2008-12-01 18:17

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» 104 comments | Read more
Download MediaCoder
Converts most audio & video files. Free 2008
Open Source Download
www.ubuntudownloads.com/mediacoder

Hardware Requirements
A decent CPU with SSE instruction set
Dual-core processors are supported and preferred

Software Requirements
Windows XP/2003/2000 (recommended)
Windows XP/2003 x64 Edition
Windows Vista (most features work)
Linux with Wine (most features work)
Mac OS X with Wine (some features work)

All-in-One DVD Converter
Convert DVD to all popular video, audio formats. Fast. Free download.

MP4 Converter
Convert MP4, MOV, WMV, DVD, AVI, RM DVD, MP3 video and audio formats.

MediaCoder Full Edition
MediaCoder 0.6.2 (current developing version)
MediaCoder 0.6.1
MediaCoder 0.6.0
Full Edition Package List

MediaCoder Special Editions
MediaCoder Audio Edition (recommended for audio enthusiasts)
MediaCoder Device Editions

Download Video Converter
dvd, avi, vob, mpg, mov, mp4, mkv, vcd, rm, 3gp, flv video conversion
www.video-audio-converter.com
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MediaCoder 0.6.0
Full Edition Package List

MediaCoder Special Editions

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cost per impression (cpm)
cost per impression (cpm)
cost per impression (cpm)

\[ n = \text{num of pages} \]
cost per impression (cpm)

n = num of pages

cpm = cost per thousand impressions
cost per impression (cpm)

\[ \frac{n}{1000} \]

\( n \) = num of pages

\( cpm \) = cost per thousand impressions
cost per impression (cpm)

\[(\frac{n}{1000}) \times cpm\]

\(n = \text{num of pages}\)
\(cpm = \text{cost per thousand impressions}\)
cost per impression (cpm)

\[ \frac{n}{1000} \times \text{cpm} = $$$ \]
cost per impression (cpm)

\[ \frac{n}{1000} \times \text{cpm} = $$$ \]

\(1,000,000 \div 1,000\)
cost per impression (cpm)

\[
\frac{n}{1000} \times \text{cpm} = $$$
\]

\[
\frac{1,000,000}{1,000} \times 3 = $$$
\]
cost per impression (cpm)

\[ \frac{n}{1000} \times \text{cpm} = $$ \]

\[ \frac{1,000,000}{1,000} \times 3 = 3,000 \]
cost per click (cpc)
cost per click (cpc)
cost per click (cpc)

\[ n = \text{num of pages} \]
cost per click (cpc)

n = num of pages

ctr = percentage of people who click
cost per click (cpc)

\[ n = \text{num of pages} \]
\[ \text{ctr} = \text{percentage of people who click} \]
\[ \text{dpc} = \text{dollars per click} \]
cost per click (cpc)

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\[ \text{ctr} = \text{percentage of people who click} \]

\[ \text{dpc} = \text{dollars per click} \]
cost per click (cpc)

\[ n = \text{num of pages} \]
\[ \text{ctr} = \text{percentage of people who click} \]
\[ dpc = \text{dollars per click} \]

\[ n \times \text{ctr} \]
cost per click (cpc)

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\[ n \times \text{ctr} \times \text{dpc} \]
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\[ \text{dpc} = \text{dollars per click} \]

\[ \text{n} \times \text{ctr} \times \text{dpc} = $$$ \]
cost per click (cpc)

\[ n \times \text{ctr} \times \text{dpc} = $$$ \]

\[ 1,000,000 \]
cost per click (cpc)

\[ n \times \text{ctr} \times \text{dpc} = $$$ \]

\[ 1,000,000 \times 0.003 \]
cost per click (cpc)

\[ n \times \text{ctr} \times \text{dpc} = $$$ \]

\[ 1,000,000 \times 0.003 \times $1 \]
cost per click (cpc)

\[ n \times \text{ctr} \times \text{dpc} = $$$ \]

\[ 1,000,000 \times 0.003 \times \$1 = \$3,000 \]
cost per click (cpc)

\[ n \times \text{ctr} \times \text{dpc} = \$$\$$ \]

\[ 1,000,000 \times 0.003 \times \$1 = \$3,000 \]

$3,000 for 1,000,000 impressions is an effective cpm of $3
# Top Weekly Traffic Numbers

<table>
<thead>
<tr>
<th>Rank</th>
<th>Project Name</th>
<th>Page Views</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>eMule</td>
<td>8,889,125</td>
</tr>
<tr>
<td>2</td>
<td>MediaCoder</td>
<td>1,533,278</td>
</tr>
<tr>
<td>3</td>
<td>Audacity</td>
<td>1,367,684</td>
</tr>
<tr>
<td>4</td>
<td>phpBB</td>
<td>1,245,358</td>
</tr>
<tr>
<td>5</td>
<td>FrostWire</td>
<td>815,784</td>
</tr>
<tr>
<td>6</td>
<td>MediaPortal</td>
<td>811,136</td>
</tr>
<tr>
<td>7</td>
<td>PortableApps.com: Portable Software/USB</td>
<td>699,881</td>
</tr>
<tr>
<td>8</td>
<td>Ares Galaxy</td>
<td>689,612</td>
</tr>
<tr>
<td>9</td>
<td>XBMC Media Center</td>
<td>654,873</td>
</tr>
<tr>
<td>10</td>
<td>DotNetNuke</td>
<td>637,332</td>
</tr>
<tr>
<td>11</td>
<td>phpDiplomacy</td>
<td>636,155</td>
</tr>
<tr>
<td>12</td>
<td>FileZilla</td>
<td>633,778</td>
</tr>
<tr>
<td>13</td>
<td>7-Zip</td>
<td>612,101</td>
</tr>
<tr>
<td>14</td>
<td>Wavelet Enterprise Management Portal</td>
<td>603,628</td>
</tr>
<tr>
<td>15</td>
<td>Hyperic HQ Enterprise Monitoring</td>
<td>555,414</td>
</tr>
<tr>
<td>16</td>
<td>Zen Cart E-Commerce Shopping Cart</td>
<td>548,177</td>
</tr>
<tr>
<td>17</td>
<td>StepMania</td>
<td>474,220</td>
</tr>
<tr>
<td>18</td>
<td>MozillaPL.org</td>
<td>460,517</td>
</tr>
<tr>
<td>19</td>
<td>Pidgin</td>
<td>459,339</td>
</tr>
<tr>
<td>20</td>
<td>Gallery</td>
<td>457,165</td>
</tr>
</tbody>
</table>
Pitfall #1

You need a lot of traffic to make it work.
pitfall #2

your users might find it irritating
pitfall #3

the scammer / competition arms race
donations / grants / memberships
foundation approach
SourceForge.net donation system
apache, linux foundation, eclipse, mambo, gnu, many more
main pitfall

you need to be able to cope with money
four: Business-y Things That Also Apply to Open Source
the sales funnel
these people might someday want to buy your stuff
these are willing to talk to you
these need something that maybe you can provide
after more talking, you still think you can help these
these want to buy it
these can agree with you on how much it costs
these will actually pay you
the open source funnel
these people are looking for a solution to their problem
these can find your project
these choose to download your project
these can figure out how to install your project
these actually use your project
these will will participate in very small ways (i.e., reporting bugs, contributing to the mailing list)
these will generate new peripheral value
(howto guides, plugins, extensions)
these will take the time to understand your core code
these will submit patches to your core code
these will try to become a committer
how wide is the top of your funnel?
how wide is the top of your funnel?
how wide is the top of your funnel?

OpenOffice.org

Azureus
how wide is the top of your funnel?

OpenOffice.org

Azureus

Gallery
how wide is the top of your funnel?

OpenOffice.org

Azureus

Gallery

Gimp / Inkscape
how wide is the top of your funnel?

- OpenOffice.org
- Azureus
- Gallery
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- Audacity
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- Gimp / Inkscape
- Audacity
- phpMyAdmin
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Azureus

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Audacity

phpMyAdmin

Zenoss Core / Hyperic / Nagios
how wide is the top of your funnel?

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- Azureus
- Gallery
- Gimp / Inkscape
- Audacity
- phpMyAdmin
- Zenoss Core / Hyperic / Nagios
- GCC
how wide is the top of your funnel?

OpenOffice.org

Azureus

Gallery

Gimp / Inkscape

Audacity

phpMyAdmin

Zenoss Core / Hyperic / Nagios

GCC

Multidig
barriers
is your project easy to find?

Web Results 1 - 10 of about 1,420,000 for open source audio software. (0.26 seconds)

Audacity: Free Audio Editor and Recorder
Audacity® is free, open source software for recording and editing sounds. ... It not only features an introduction to how digital audio works but also many ...
audacity.sourceforge.net/ - 13k - Cached - Similar pages -  
Download Audacity
Windows Download
Mac
Help
New Features in 1.3
Screenshots
Lame
About

List of open source software packages - Wikipedia, the free ...
This is a list of Free software / open-source software packages: computer .... Modular Audio Recognition Framework — voice, audio, speech, NLP processing ...
en.wikipedia.org/wiki/List_of_open_source_software_packages - 151k -
Cached - Similar pages -  
Free Music Editor CD
Complete Music & Audio
Editing Studio on CD - Free!
FreeSoftwareCD.net

Sunday, January 18, 2009
is it easy to download?
The Free, Cross-Platform Sound Editor

Audacity® is free, open source software for recording and editing sounds. It is available for Mac OS X, Microsoft Windows, GNU/Linux, and other operating systems. Learn more about Audacity... Also check our Wiki and Forum for more information.

The latest release of Audacity is 1.3.6 (Beta). Because it is a work in progress and does not yet come with complete documentation or translations into foreign languages, it is recommended for more advanced users. See New Features in 1.3 for more information about the 1.3.x Beta series.

For all users, Audacity 1.2.6 is a stable release, complete and fully documented. You can have Audacity 1.2.6 and 1.3.6 installed on the same machine.

<table>
<thead>
<tr>
<th>Download Audacity 1.2.6a</th>
</tr>
</thead>
<tbody>
<tr>
<td>for Mac OS X 10.1 or later</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Download Audacity 1.3.6 (Beta)</th>
</tr>
</thead>
<tbody>
<tr>
<td>for Mac OS X 10.4 or later</td>
</tr>
</tbody>
</table>

Other downloads
is it easy to install?

```
[root@svr (~) ] apt-get install firefox
Reading package lists...  Done
Building dependency tree
Reading state information...  Done
The following extra packages will be installed:
   libhunspell-1.1-0 libnspr4-0d libnss3-0d
Suggested packages:
   firefox-gnome-support latex-xft-fonts
Recommended packages:
   ubufox
The following NEW packages will be installed:
   firefox libhunspell-1.1-0 libnspr4-0d libnss3-0d
0 upgraded, 4 newly installed, 0 to remove and 0 not upgraded.
Need to get 10.2MB of archives.
After unpacking 29.1MB of additional disk space will be used.
Do you want to continue [Y/n]? hell yes!
```
Mozilla Firefox Setup

Setup Type
Choose setup options

Choose the type of setup you prefer, then click Next.

- Standard
  Firefox will be installed with the most common options.

- Custom
  You may choose individual options to be installed. Recommended for experienced users.

Use Firefox as my default web browser

< Back  Next >  Cancel
do you make it easy for people to get involved?
can people understand your code?

#if USE_PORTMIXER
  if (mPortStreamV18 != NULL && mLastPaError == paNoError) {
    #ifdef __WXMAC__
      if (mPortMixer) {
        if (Px_SupportsPlaythrough(mPortMixer)) {
          bool playthrough;

          mPreviousHWPlaythrough = Px_GetPlaythrough(mPortMixer);

          gPrefs->Read(wxBString("/AudioIO/Playthrough"), &playthrough, false);
          if (playthrough)
            Px_SetPlaythrough(mPortMixer, 1.0);
          else
            Px_SetPlaythrough(mPortMixer, 0.0);
        }
      }
    #endif
  }
#endif
q: isn’t branding for evil corporations?
“People engaged in branding seek to develop or align the expectations behind the brand experience (see also brand promise), creating the impression that a brand associated with a product or service has certain qualities or characteristics that make it special or unique.”

http://en.wikipedia.org/wiki/Brand
to think your stuff is special
$0.55/liter
$0.55/liter

$1.42/liter
$0.55/liter = $1.42/liter
inspires confidence
This was not the first time BP had **revamped its logo and appearance** to **improve its environmental image**. In 1989, as British Petroleum, it underwent a similar makeover....David Walton, head of public relations, said **BP's image** was "**a major commercial and political asset**. Like any asset, it has to be managed and looked after."

Sharon Beder
'bp: Beyond Petroleum?', 2002
brand loyalty
everything they make must be this good!
q: open source + branding?
why?
We don’t need:

• to convince people to spend more for our stuff

• to be seen as nice people when were doing evil things

• to get people addicted to our products
because it helps people know who you are
it will help you get more users
it will help you get taken seriously by consumers who are used to seeing that stuff
a well-thought-out brand suggests a well-thought-out user experience
"A great brand raises the bar -- it adds a greater sense of purpose to the experience, whether it's the challenge to do your best in sports and fitness, or the **affirmation that the cup of coffee you're drinking really matters**."

Howard Schultz  
(president, ceo and chairman of Starbucks)
spreading the word
press releases
traditional print/television/internet advertising
word of mouth
q: what can open source learn from traditional promotion?
express value clearly
Download the newest Vuze (formerly Azureus)

Find, download, and play high-quality and HD videos

Download Client
Version 4.0 (MAC)
Free

SOURCEFORGE.NET®
This is the official website of Gallery, the open source web based photo album organizer. Gallery gives you an intuitive way to blend photo management seamlessly into your own website whether you're running a small personal site or a large community site.

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need to have a good story
reporters want to write something interesting
if possible, a better one than “we’re smart people and we built clever stuff”
open source promotion has specific opportunities
watch, learn, and respond

Create a Google Alert

Enter the topic you wish to monitor.

Search terms: open source audio editor
Type: News
How often: as-it-happens
Deliver to: rturk@corp.sourceforge.com

Create Alert

Google will not sell or share your email address.
connect with related communities
connect with related communities

GNU Project Listing

This page is a listing of GNOME-related projects and their related web pages. For a more complete, searchable list of applications, check out the GNOME Software Map.

A
- **a11y**, GNOME Accessibility for people with disabilities
- **Abiword**, Word Processor
- **Accerciser**, Interactive accessibility explorer
- **Agnubis**, Presentation Program
- **Anjuta**, Integrated Development tool

B
- **Balsa**, e-mail client

M
- **Memprof**, Dev. memory profiler
- **Metacity**, Window Manager
- **Midnight Commander**, File Manager
- **Moleskin**, Code Editor
- **Mozilla**, Browser and HTML rendering widget
- **mpterms**, Multi-tabbed terminal application
- **Meld**, Diff Merge and Source Control
Feel free to add your software/website here if it makes use of Lucene. Please do not add your website if it uses Lucene merely indirectly, e.g. if you make use of a blog publishing system which in turn uses Lucene. We reserve the right to remove links where it isn’t visible that Lucene is used, so consider adding a text like "powered by Lucene" to your search result page. Note to spammers: don’t bother adding your site here, we’re using the appropriate meta tags so search engines will ignore the links anyway.

Applications and web applications using Lucene include (alphabetically), see below for usage of Lucene on web sites:

- **ActiveMath** - a user adaptive, interactive and web-based learning environment for mathematics
- **Aduna AutoFocus** - a visual desktop search tool
- **Aduna Metadata Server** - RDF-based indexing server for metadata and full text
- **Affidata** - a real estate search engine that uses lucene for Advanced Search Functionality
- **agorum core DMS** - Open Source DMS (Document Management System). Uses lucene for full-text and metadata search. Index is completely stored withing Database (for transaction issue)
- **Ahahi** - a search engine (web,news,image,forum,crawler)
- **Antya** - Website discovery engine powered by Lucene [displays Websites, logos, address]
- **AideRSS** - **PostRank** - Blog filtering and ranking based on social media metrics
- **Affiliate Ranker** - an affiliate program search engine
- **JiansNet** - A platform for searching and sharing useful information for overseas Chinese
- **Bigsearch.ca** - uses nutch, based on lucene open source software to deliver its search results.
- **BibleDesktop** - A Bible study program using lucene to search Bibles
- **Bixee** - Search Engine for Jobs in India.
promotion via social media

WOW! MindTouch Deki is ranked #4 on sourceforge.net. hells y ah bitches

about 13 hours ago from TweetDeck

Roebot
Aaron Roe Fulkerson
submit your new releases to freshmeat and SourceForge.net

### Cacheboy Squid 1.6

**About:** Cacheboy Squid is a Squid-2 derivative that aims to build on top of the Squid-2 codebase stability. The primary short-term aims of this codebase are a cleaner, better organised codebase, HTTP/1.1 support, compression support, IPv6 support, better storage, and initial threading support for certain subsystems.

**Changes:** Lots of restructuring between 1.4 and 1.6. This includes some initial IPv6 infrastructure work, but no working IPv6 support for now. This release fixes a critical string-related bug.

<table>
<thead>
<tr>
<th>Focus</th>
<th>License</th>
<th>URLs</th>
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</thead>
<tbody>
<tr>
<td>Major bugfixes</td>
<td>GNU General Public License v2</td>
<td>![URLs Icon]</td>
</tr>
</tbody>
</table>

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### Projects

**ROZK: 0.6.1 released**

2009-01-15

ZK is Ajax Java framework without JavaScript. With direct RIA, 200+ Ajax components and markup languages, developing Ajax/RIA as simple as desktop apps and HTML/XUL pages. Support JSF/JSP/JavaEE /Hibernate/.., and Ajax script in Java/Ruby/Groovy/Python/.. ROZK is an open source tool to build CRUD forms with jRuby and ZK with minimal codes, created by David Cheung. For more information on ROZK, visit: http://rozk.net/wordpress/?page_id=2 ROZK 0.6.1: http://rozk.net/wordpress/?p=72
ok, that’s it.

enjoy the rest of the show!
rturk@corp.sourceforge.com