

GNU Savannah

100% free software forge



Sylvain Beucler

from the
Savannah Hackers

RMLL 2010 Bordeaux

Overview



Projects registration and management

3.2K projects - 48K users

VCS: CVS, SVN, Git, Mercurial, Bzr

Trackers

Download mirrors

Mailing lists (GNU infra)

Webpages (GNU infra)

Jobs

Ads-free

A screenshot of the Savannah website in Mozilla Firefox browser. The browser title is "Welcome [Savannah] - Mozilla Firefox". The address bar shows "https://savannah.gnu.org/". The page content includes a welcome message, login status, search bar, hosted projects, site help, and a sidebar with statistics and help wanted sections. The statistics section shows 45627 registered users, 3106 hosted projects, and various other metrics. The help wanted section lists 178 developers, 11 project managers, 2 Unix admins, 48 doc writers, 30 testers, 4 support managers, 30 graphic/other designers, and 27 translators. The most popular items section lists task #4755 and bug #23435.

Welcome to **Savannah**, the software forge for people committed to [Free Software](#):

- We host free projects that run on free operating systems and without any proprietary software dependencies
- Our service runs with 100% free software, including [itself](#)
- [More...](#)

Savannah aims to be a central point for development, maintenance and distribution of [official GNU software](#). In additions, for projects that are free software but not part of the GNU project we provide [savannah.nongnu.org](#).

If you would like to use these facilities to host your project, then go to the **Register new project** menu entry.

We provide two mailing lists that you may want to subscribe to:

- [savannah-announce](#): low-volume notifications of important issues and changes at Savannah
- [savannah-users](#): discussion of savannah-announce and any user-oriented topic

Our [https](#) certificate is signed by the [CAcert](#) authority, which you can [import](#).

Latest News

Instant replication from web front-end to svsystem

Savannah Statistics

45627 registered users
3106 hosted projects
- 11 GUG
- 2656 non-GNU software & documentation
- 375 Official GNU software
- 31 www.gnu.org portion
- 33 www.gnu.org translation team
+ 91 registrations pending

Help Wanted

- 178 Developer
- 11 Project Manager
- 2 Unix Admin
- 48 Doc Writer
- 30 Tester
- 4 Support Manager
- 30 Graphic/Other Designer
- 27 Translator

Most Popular Items

- task #4755: BT: support for partial... 333 votes
- bug #23435: Flash

Overview - History



< 2001: cvs-hackers

2001: (Free) SourceForge install: Savannah

2001: SourceForge goes proprietary

2002: nongnu.org

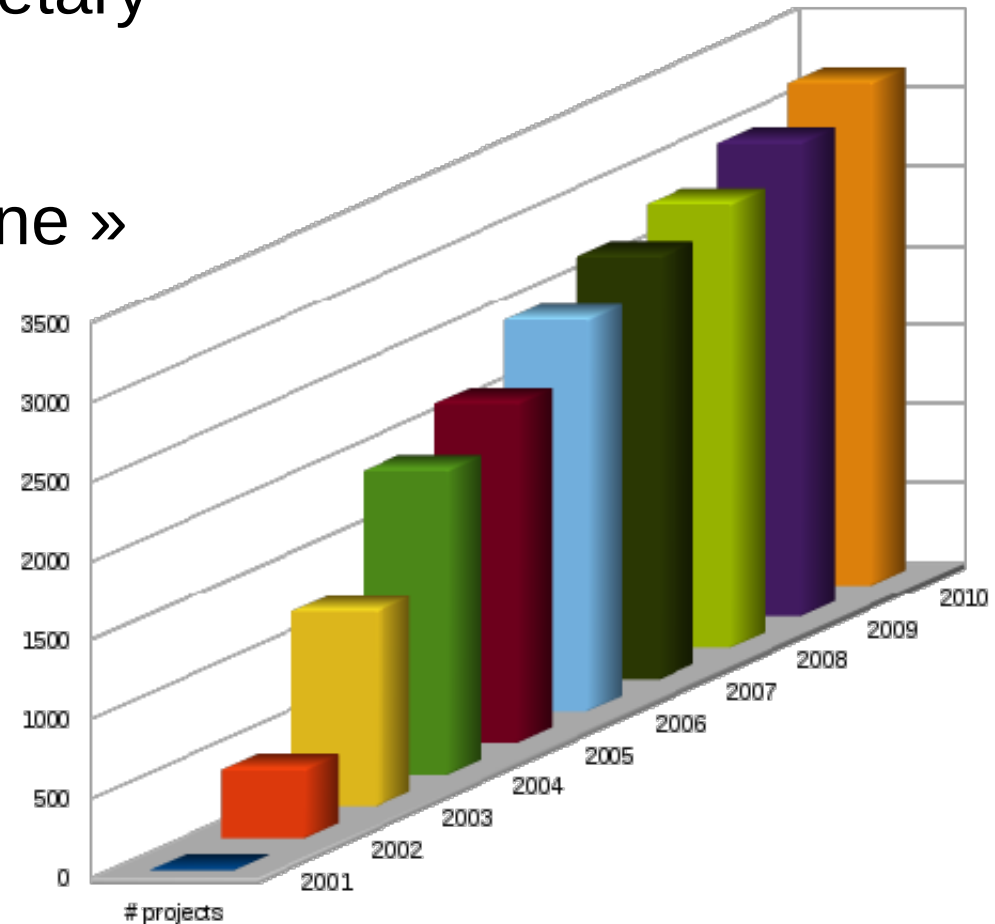
2004: Code is renamed « Savane »

200-: Support for more VCS

200-: Virtualization

200-: Mirrors

2010: Savane rewrite



Overview - Goals



100% Free Software hosting platform

Promote best licensing practices

AGPL code



main

I want to release a project under:

	GPLv2 only	GPLv2 or later	GPLv3 or later	LGPLv2.1 only	LGPLv2.1 or later	LGPLv3 or later
GPLv2 only	OK	OK [2]	NO	OK if you convert to GPLv2 [7]	OK if you convert to GPLv2 [7][2]	NO
GPLv2 or later	OK [1]	OK	OK	OK if you convert to GPL [7]	OK if you convert to GPL [7]	OK if you convert to GPLv3 [8]
GPLv3	NO	OK if you upgrade to GPLv3 [3]	OK	OK if you convert to GPLv3 [7]	OK if you convert to GPLv3 [7][3]	OK if you convert to GPLv3 [8]
LGPLv2.1 only	OK if you convert to GPLv2 [7]	OK if you convert to GPL [7][2]	OK if you convert to GPLv3 [7]	OK	OK [6]	OK if you convert to GPLv3 [7][8]
LGPLv2.1 or later	OK if you convert to GPLv2 [7][1]	OK if you convert to GPL [7]	OK if you convert to GPLv3 [7]	OK [5]	OK	OK
LGPLv3	NO	OK if you upgrade and convert to GPLv3 [8][3]	OK if you convert to GPLv3 [8]	OK if you convert to GPLv3 [8]	OK if you upgrade to LGPLv3 [4]	OK
GPLv2	OK	OK [1]	NO	OK if you convert to GPLv2 [7]	OK if you convert to GPLv2 [7]	NO

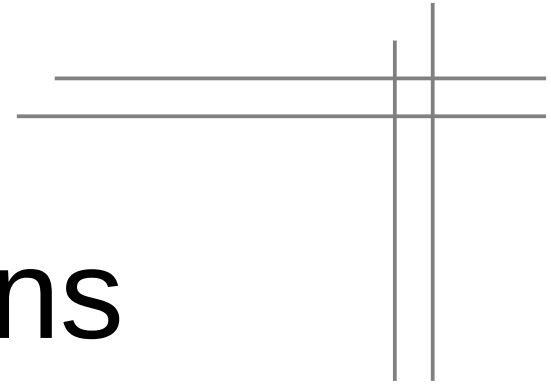
I want to copy code under:



GNU Savannah



Legal questions



US export control regulations



SourceForge and Google Code unnecessarily block users and hackers based on their country.

(SourceForge is getting better.)



Sudan
North Korea
Syria
Iran
Cuba

Licensing checks



- Volunteer-based
- New moderators are taught for a few months by their peers, and gnu.org excellent reference material
- FSF Compliance Lab / SFLC for difficult cases

		I want to release a project under:					
		GPLv2 only	GPLv2 or later	GPLv3 or later	LGPLv2.1 only	LGPLv2.1 or later	LGPLv3 or later
I want to copy code under:	GPLv2 only	OK	OK [2]	NO	OK if you convert to GPLv2 [7]	OK if you convert to GPLv2 [7][2]	NO
	GPLv2 or later	OK [1]	OK	OK	OK if you convert to GPL [7]	OK if you convert to GPL [7]	OK if you convert to GPLv3 [8]
	GPLv3	NO	OK if you upgrade to GPLv3 [3]	OK	OK if you convert to GPLv3 [7]	OK if you convert to GPLv3 [7][3]	OK if you convert to GPLv3 [8]
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	LGPLv3	NO	OK if you upgrade and convert to GPLv3 [8][3]	OK if you convert to GPLv3 [8]	OK if you convert to GPLv3 [8]	OK if you upgrade to LGPLv3 [4]	OK
	GPLv2	OK	OK [1]	NO	OK if you convert to	OK if you convert to	NO

DMCA notice-and-takedown



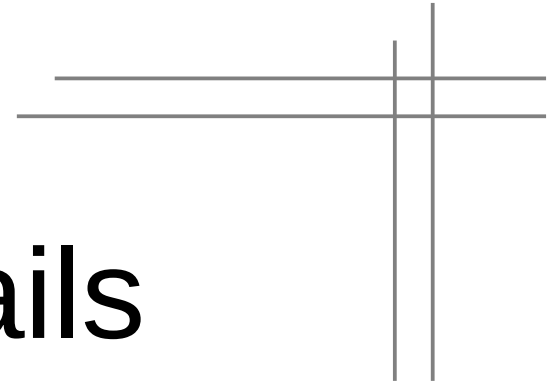
Basic procedure, hoster POV (IANAL/TINLA/etc.)

- receive a DMCA notice-and-takedown
- immediately disable incriminated material and notify uploader
- if notice is fake, prosecute sender
- if notice is right and uploader confirms, remove material
- if notice is right and uploader contests, restore material after 14 days unless lawsuit

GNU Savannah



Technical details



Overview - Physical



Hardware (acquired by FSF in 2008, migration in 2010)

Silicon Mechanics – coreboot support

Dual-Core AMD Opteron 2214 HE / 24GB RAM

1.5TB RAID-1 x4 (soft / currently 150GB)

Hosted at Global Naps (colocation donated to the FSF)
at Quincy, MA (USA)

Xen™



coreboot



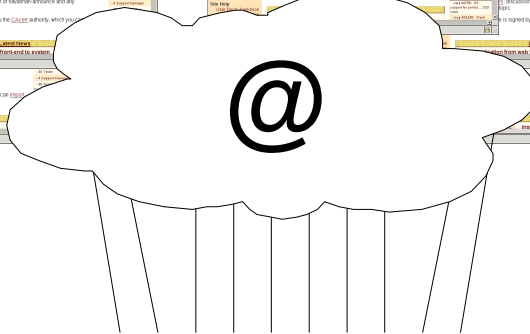
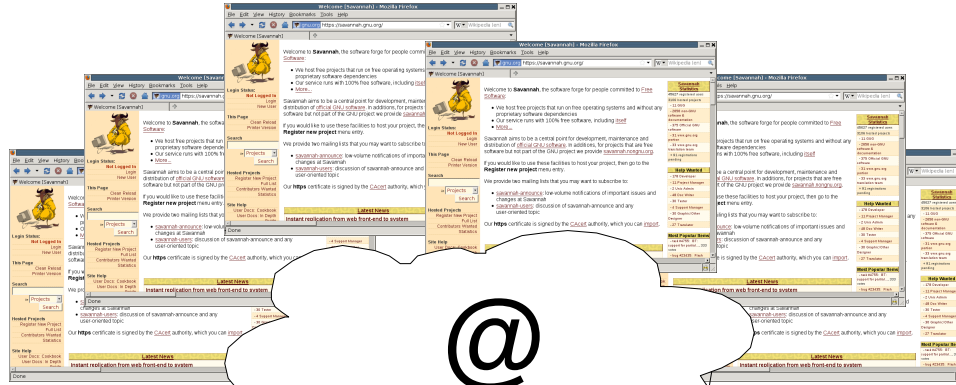
Gna!



- Another Savane instance, hosted in France
- 1300 projects
14k users
- AMD Athlon64 4200+
4GB RAM



Architecture



Web front-end

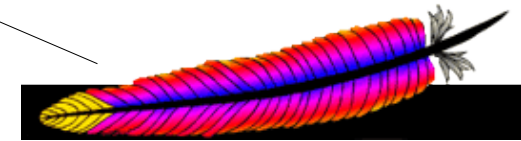
System back-end

Savane

CVS



+++ git



Savane front-end



(Shameless plug)

Come this afternoon room C at 15:00 :)

The screenshot shows a web browser window with the address bar containing `http://2010.rml.info/Une-nouvelle-Savane.html?lang=fr`. The page title is "Une nouvelle Savane - 11es RM...". The main content area features a green header "Une nouvelle Savane" followed by event details in a light green box: "Intervenant(s): Sylvain Beucler", "Date: Mercredi 7 juillet 2010", "Horaire: 15h00", "Durée: 20 minutes", and "Lieu: ENSEIRB - Amphi C". Below this, another green box states "Thèmes transversaux: En anglais". The section "La conférence" contains text about Savane's history and current state. The "Intervenant:" section includes a bio for Sylvain Beucler and a small portrait photo. A sidebar on the right contains a search bar, a navigation menu with icons for "Inscription/Réservation", "Nocturnes", "Plan d'accès", "Presse", "Contact", and "Flux RSS", and language selection options (UK and ES flags).

Une nouvelle Savane

Intervenant(s): Sylvain Beucler
Date: Mercredi 7 juillet 2010 **Horaire:** 15h00 **Durée:** 20 minutes
Lieu: ENSEIRB - Amphi C

Thèmes transversaux: En anglais

La conférence

Savane un l'un des premiers forks du logiciel SourceForge, qui visait l'hébergement de masse pour les projets de logiciel libre. Il fait fonctionner des forges publiques comme GNU Savannah et Gna!, de même que des sites de développement internes.

Après des années d'évolution, Savane est maintenant en cours de réécriture. Cette intervention présentera les technologies utilisées, et les objectifs de conception afin de faire face aux nouvelles opportunités ou menaces envers le logiciel libre.

Intervenant :

Sylvain Beucler est tombé dans la marmite du logiciel libre il y a près 10 ans. Il maintient la plate-forme d'hébergement GNU Savannah, le jeu (et moteur de jeu) GNU FreeDink, contribue à Debian (notamment via l'Équipe Jeux) et est l'auteur principal du WikiBook sur MySQL.

Voir aussi [la salle dédiée aux forges logicielles](#) hébergeant las recontres de la communauté PlanetForge.

Rechercher :

Inscription/Réservation

Nocturnes

Plan d'accès

Presse

Contact

Flux RSS

Savane back-end



Behind the scenes:

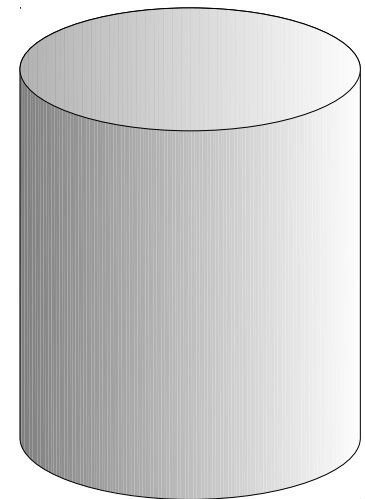
web → system replication rewrite

Before: complex cron

Now: NSS-based direct replication

Less code (delegation)

Smaller crons (15 lines)



Download mirrors



- 14 mirrors, 11 countries
- Mirmon + Apache2::Geo::Mirror
- Future : retrieve and aggregate stats

Monitoring



- Alerts : our users ! (+ nagios for FSF sysadmins)
- Graphs : Cacti, then Munin
- AWStats + Webalizer
- Public
- Some figures :
 - 3Mhits/mo (frontend only)
 - 1.3TB/mo

Contribute!



We're looking for:

- Moderators
- Web designers
- Coders
- System administrators

Challenges



> 8 years-old not-so-clean data

There Can Only Be One (version)

Not code, but a service

Making everybody happy (no fork escape)

No release candidates – instant releases

Long-term maintenance

Protection (spam...) / Data migration

Security: restricted-shell access

Scalability

Thank you



Fire the questions!