

Introduction to PicoLibre

PicoLibre : A free software platform for collaborative software development

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This presentation is an introduction to the PicoLibre [<http://www.picolibre.org>] platform.

PicoLibre is an award winning free software system aimed at hosting collaborative software development, particularly adapted to the needs of students projects in a higher education school.

This presentation was given to a MSc class at GET/INT.



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Introduction

Who is Olivier Berger ?

Not a native english speaker!

Research Engineer at the Computer Science Department (Département INF) of GET1 / INT2

Free Software activist / evangelist : Vice-President of APRIL (<http://www.april.org>, french Free Software association since '96, associate member of FSF Europe)

Before INT : several years consulting to Public Sector (at Cap Gemini, then Idealx)

More details : <http://www-inf.int-evry.fr/~olberger/>

1Groupe des Écoles de Télécommunications (<http://www.get-telecom.fr/>)

2Institut National des Télécommunications (<http://www.int-evry.fr/>)

Quick poll

SourceForge ?

CVS ?

Goal of this presentation

Describe the typical scenario of usage of a collaborative software development platform.

Describe the features and components of PicoLibre.

Give initial elements which will help preparing the usage of PicoLibre later this year (projects).

Table of Contents

What is PicoLibre

Typical uses

Details of PicoLibre components

Developer's tools

Working with PicoLibre

What is PicoLibre

Quick intro

Platform to support collaborative software development

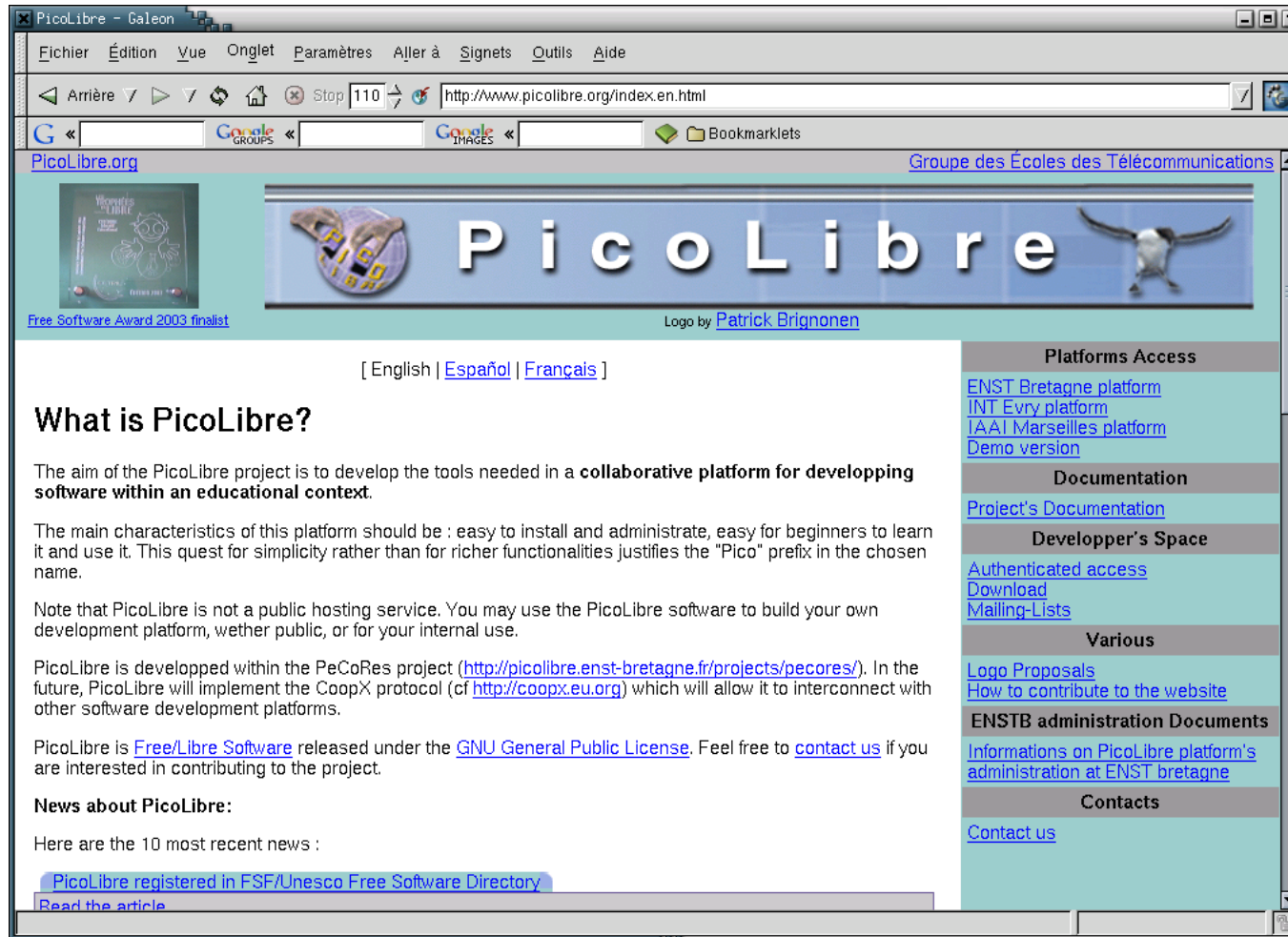
Platform to host projects (code, documentation, web site)

Easy administration of the projects (projects teams management, access control, ...)

Useable in a learning context too : as easy to use as possible

Inspired of similar platforms used to develop Free Software

www.picolibre.org



(full size image) [mediaobjects/picolibre_org1.png]

<http://www.picolibre.org>

PicoLibre goals

- ***Targeted users:*** undergraduate students and academic/industrial people not necessarily familiar with Software Engineering
- ***Targeted projects:*** small as well as big projects, involving software development or document production or a web site maintenance

Thus, the main qualities of the platform have to be *easy* and *safe* to use (preserve data integrity)

Integration of tools

- for facilitating remote work
- for facilitating interaction between remote developers/users
- for managing projects and user groups

Features

- **Unified and coherent view of all components of the hosted projects (centralised repositories)**
- **Full access from all parts of the world via a customisable www interface (works with any browser)**
- **A secure concurrent versioning system (CVS)**
- **Archived and customizable mailing lists (Sympa)**
- **A bug reporting and tracking system and a task management system**
- **A set of system and user administration tools**

Architecture

Integration/adaptation of existing free software components

- **Heart** : Based on PHPGroupware framework (over Apache and GNU/Linux)
- **Glue** : OpenLDAP + MySQL (for information, authentication)
- **OpenSSH + CVS**, for the CVS repository (+ CVSWeb for repository browsing)
- **Sympa** for mailing-lists

History of the project

Upcoming version : 0.9.10 in Release candidate

Current version (installed at INT) : 0.9.6

Developped mainly at ENST Bretagne between 2001 and 2003, furthering initial developments of *Serveur Libre*

Awards :

- **PicoLibre was selected as a finalist at the Free Software Trophies 2003.**
- **Awarded "Prix de l'innovation pédagogique" of Fondation Louis Leprince Ringuet in 2001.**

Typical uses

Software development project

Internal communication : mailing-lists

Sharing source code : CVS repository

External communication : mailing-lists + website

Collaborative documents authoring

TXT based "source" for document (XML, LaTeX, etc.)

Ensure one can always retrieve reference version in repository or website

Lonesome developer, etc.

Necessary ?

At least archival of elements

Sometimes only create a project initially for mailing-lists

Central concept : the project

Project :

- **1 (or more) administrator(s)**
- **(0 or more) members**
- **Productions, works (managed via CVS)**
- **Meta-information**
- **Elements linked to life-cycle (bugs, tasks)**
- **Elements for communication (mailing-lists, website)**

Principles of CVS

Essential tool at heart of collaborative software development

Several people working in collaboration on same items

But also the same people working on different versions of the same items

Tracking changes

Semi-connected

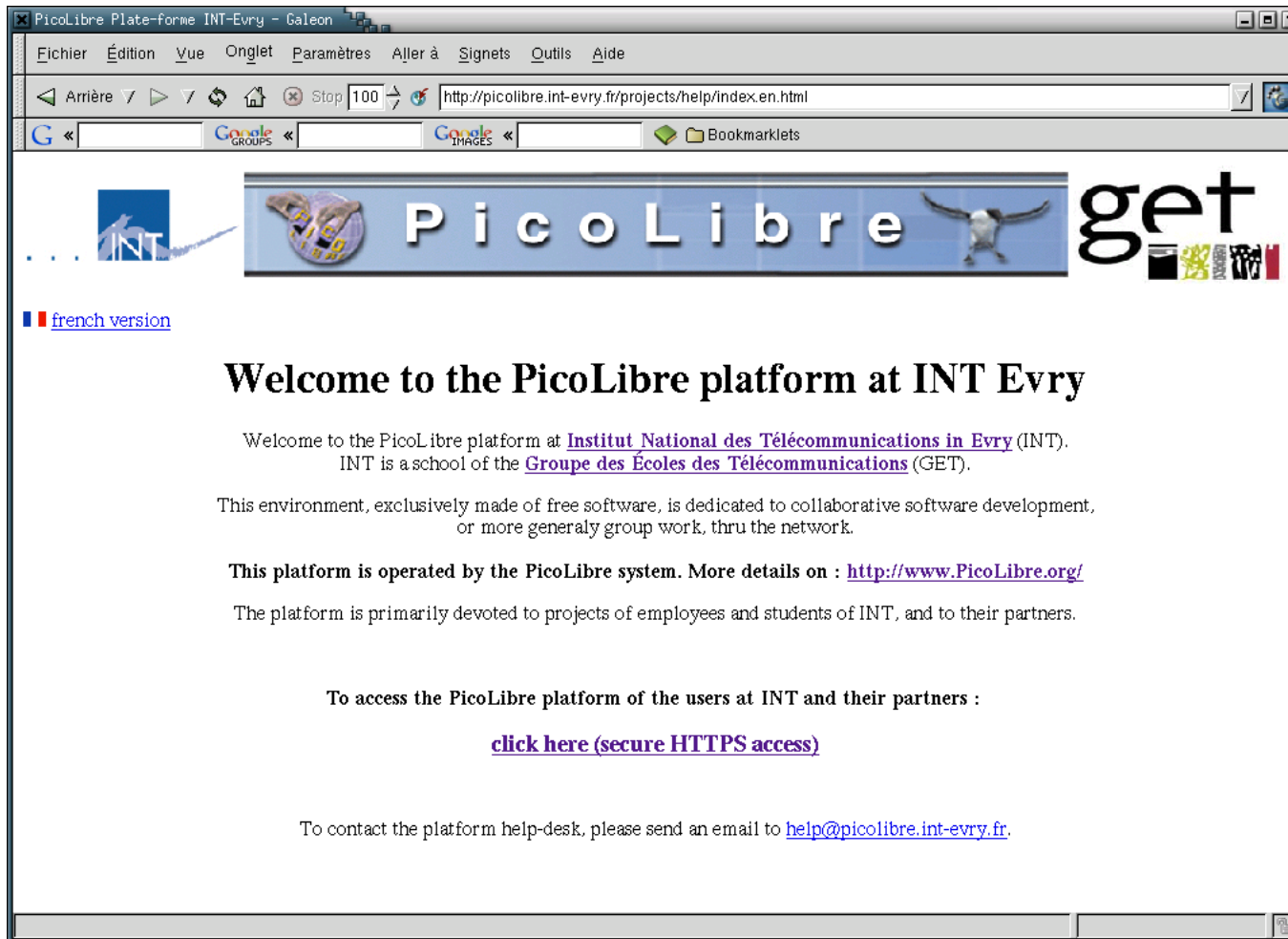
No development model imposed : necessity of communication in the team

Reference : <http://www.cvshome.org>

Details of PicoLibre components

Welcome screen

<http://picolibre.int-evry.fr/>



(full size) [mediaobjects/picolibre_int1.png]

See news in french version

Note contact address

Login screen

<https://picolibre.int-evry.fr/login.php>



(full size) [mediaobjects/picolibre_int2.png]

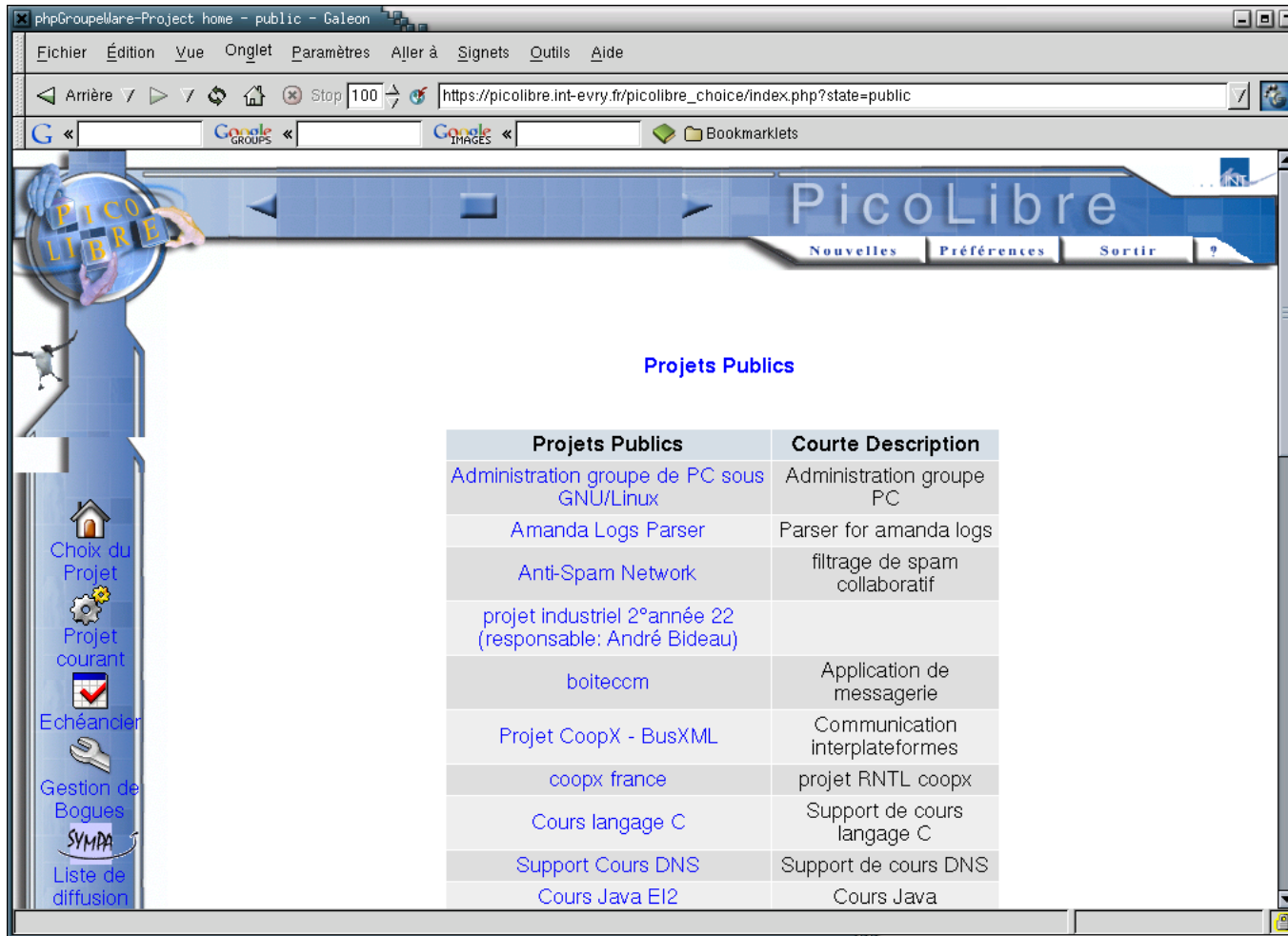
SSL secure session

This screen in french only, sorry

Specific PicoLibre login/password => need to register first

guest/guest access possible (browsing public projects)

Guest access



(full size) [mediaobjects/picolibre_int4.png]

Sorry, in french

Only public projects available / browsable

Public or Private projects

Each project may be :

public most of the information is available to the public (internet-wide)
read-only for non-members
project is listed in the platform's projects list (<http://picolibre.int-evry.fr/projects/>)

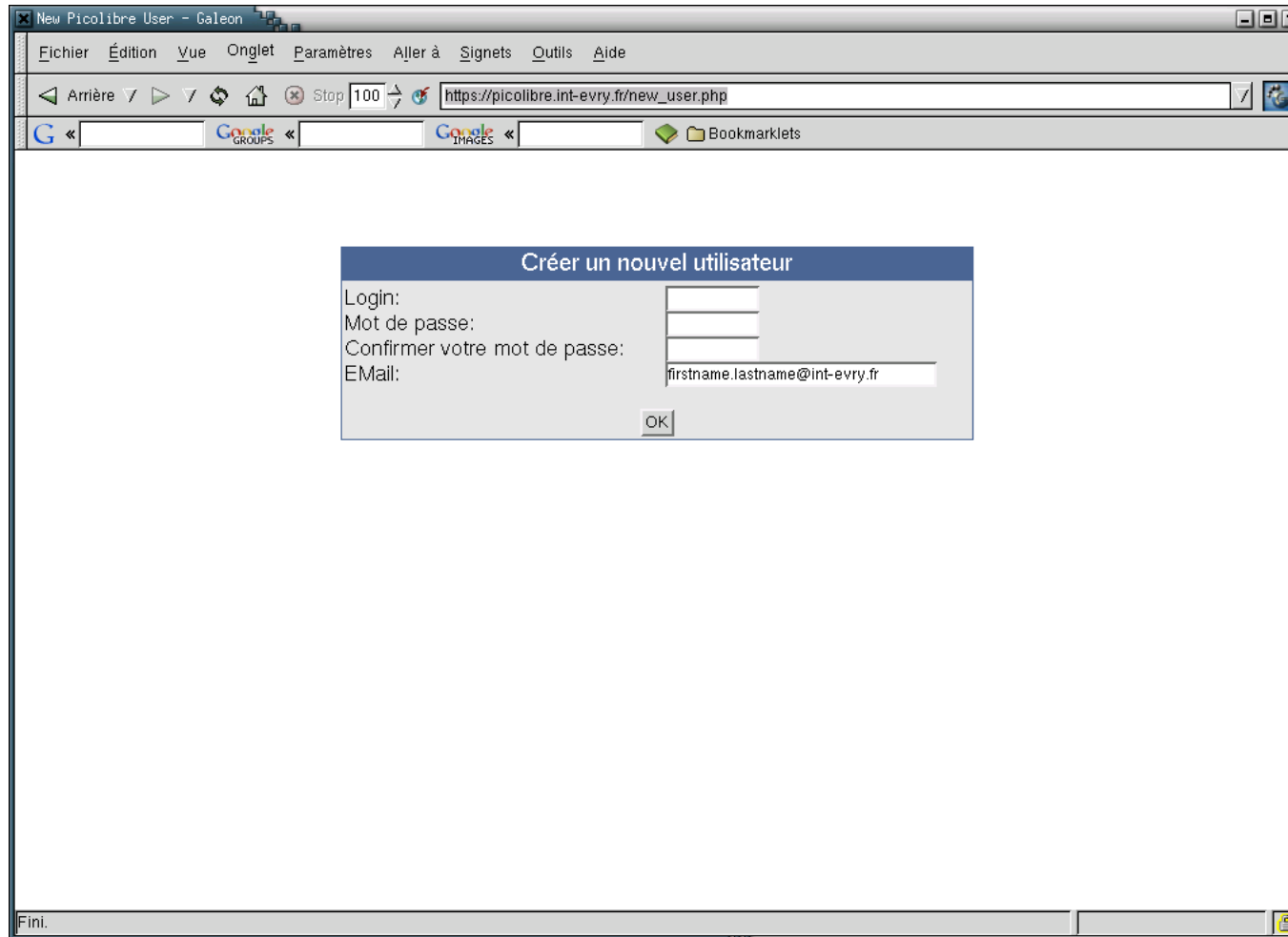
private most of the information is *not* available
web site browsable at ht-
[tp://picolibre.int-evry.fr/projects/PROJECT_NAME](http://picolibre.int-evry.fr/projects/PROJECT_NAME)

We advise to do public projects unless specifically required : open review, inspired from free software practice

Note

cannot change project status at present time

Registration screen



(full size) [mediaobjects/picolibre_int3.png]

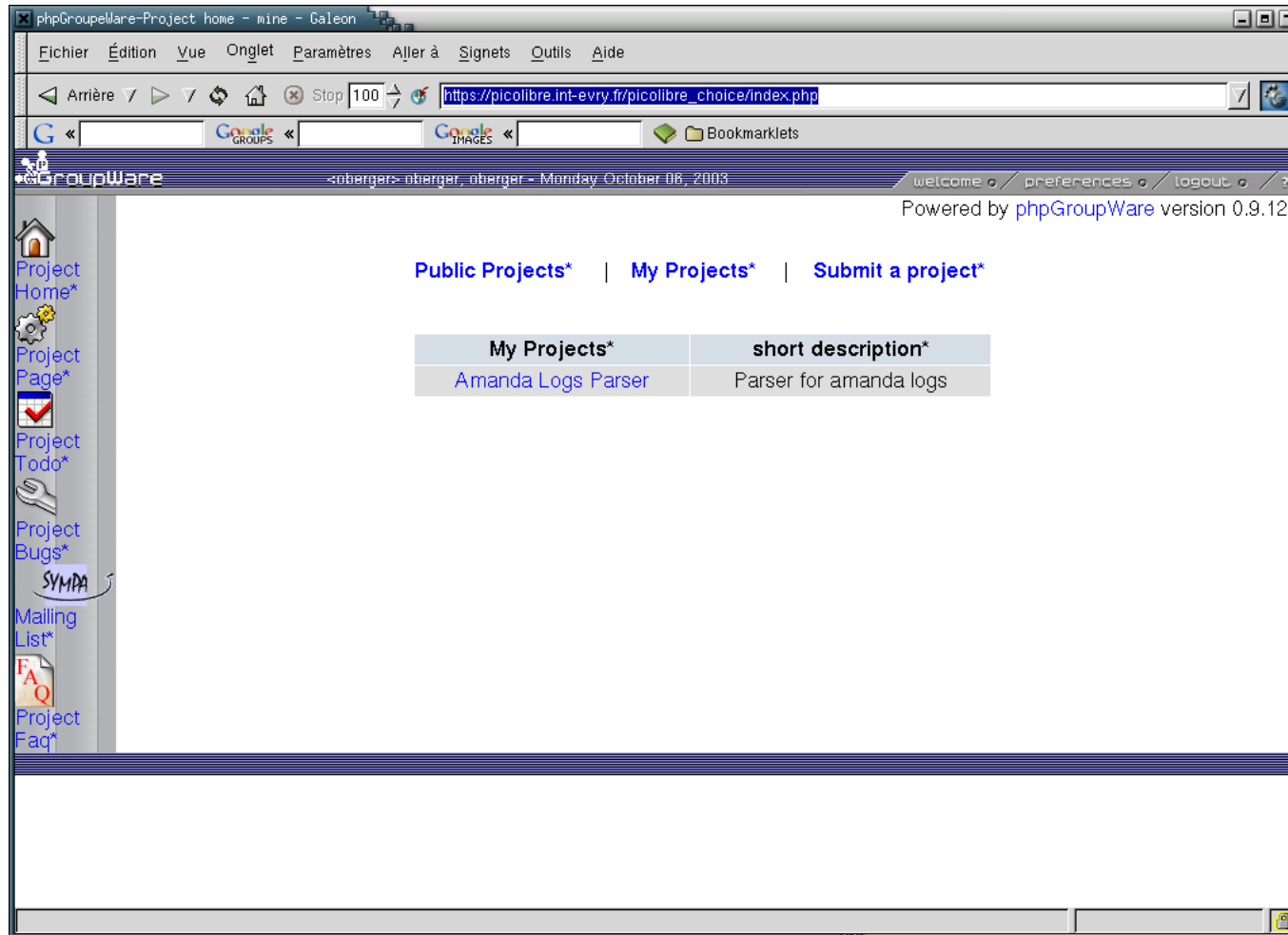
PicoLibre specific login/password, no link with MCI identification

Use the "canonical" firstname.lastname email

Better use a "standard" login like "flastname" or "lastname_f"

PicoLibre available for almost anybody

Main PicoLibre screen



(full size) [mediaobjects/picolibre_int5.png]

will display only projects of which the user is a member

access to list of public projects

Project Home Page

The screenshot shows a web browser window with the following elements:

- Browser Title:** phpGroupWare-Project devel-AMANDALOGP - Galeon
- Address Bar:** https://picolibre.int-evry.fr/picolibre_current/index.php
- Page Header:** <obergers-oberger,oberger - Monday, October 06, 2003 / welcome / preferences / logout / ?
- Page Sub-header:** Powered by phpGroupWare version 0.9.12
- Current Project:** amandalogp
- Navigation Links:** Project Home*, Project Page*, Project Todo*, Project Bugs*, Project Faq*
- Project Description* (2003-07-22 10:55:57):**
 - Short Title*:** amandalogp
 - Long Title*:** Amanda Logs Parser
 - Short Description*:** Parser for amanda logs
 - Long Description*:** Parser tools for Amanda backup tool logs
 - Type*:** UNCLASSIFIED
 - Theme*:** freesoftware
 - Home Page*:** http://picolibre.int-evry.fr/projects/amandalogp
 - License*:** BSD License
 - Status:** public
- Developer List*:**

Admins	berger_o
Developpers*	oberger
- Application List*:**
 - CVS access*
 - Project Bugs*
 - Project Page*
 - Project Faq*
 - Mailing List*
 - Project Todo*

 - Web CVS Access
 - Project's Website
 - Sources Snapshots
- Footer:** No task to do !*

(full size) [mediaobjects/picolibre_int6.png]

scroll to the todo-list

two series of links to the project's views

Project's Tasks : To-Do list

The screenshot shows a web browser window with the following details:

- Browser: Galeon
- Address Bar: https://picolibre.enst-bretagne.fr/picolibre_todo/index.php
- Page Title: PicoLibre
- Page Content:
 - Navigation: Home, Project Page, Project Todo, Project Bugs, Mailing List, Project Faq
 - Project Name: PicoLibre
 - Date: Monday October 06, 2003
 - Powered by: phpGroupWare
 - Task List: 21 tasks to do

Todo id	Access	Project	Urgency	Status	Summary	Start Date	End Date	Created By	Assigned to	Category
2	public	picolibre	Low	<div style="width: 100%; height: 10px; background-color: #4a7ebb;"></div>	Module News	06/12/2001		gabor		module
21	public	picolibre	Low	<div style="width: 100%; height: 10px; background-color: #4a7ebb;"></div>	Aide en ligne	15/01/2002		pascal		sugges
28	public	picolibre	Low	<div style="width: 100%; height: 10px; background-color: #4a7ebb;"></div>	administration de la plateforme	16/01/2002		pascal		module
29	public	picolibre	Low	<div style="width: 100%; height: 10px; background-color: #4a7ebb;"></div>	Package Debian	21/01/2002		pascal	pascal	dev
30	public	picolibre	Normal	<div style="width: 100%; height: 10px; background-color: #4a7ebb;"></div>	Maj PhpGroupware	21/01/2002		eric	pascal	dev
43	public	picolibre	Low	<div style="width: 100%; height: 10px; background-color: #4a7ebb;"></div>	Espace de telechargement	07/02/2002		pascal		sugges
44	public	picolibre	Low	<div style="width: 100%; height: 10px; background-color: #4a7ebb;"></div>	Faciliter l'accès anonyme au site et le référencement des moteurs de recherche	07/02/2002		pascal		bogues
46	public	picolibre	Low	<div style="width: 100%; height: 10px; background-color: #4a7ebb;"></div>	Rédiger mail d'intro	14/02/2002	24/02/2002	pascal	ouvradou	sugges
48	public	picolibre	Low	<div style="width: 100%; height: 10px; background-color: #4a7ebb;"></div>	[BUG] Dans la description courte du projet on ne peut pas mettre de	26/02/2002		cbac	pascal	bogues
51	public	picolibre	High	<div style="width: 100%; height: 10px; background-color: #4a7ebb;"></div>	[BUG] Authentification X509	27/02/2002		pascal	pascal	sugges
61	public	picolibre	High	<div style="width: 100%; height: 10px; background-color: #4a7ebb;"></div>	[BOGUES] Obligation de taper son mot de passe a chaque utilisation de CVS	11/03/2002		sylvain	pascal	bogues

(full size) [mediaobjects/picolibre_int7.png]

Project "management" : Tasks "matrix view"

public	picolibre	Low	[ToDo] Suggestion d'améliorations	05/04/2002	07/04/2002	pascal	pascal	suggestion	View	Edit	De
public	picolibre	Low	Echéancier : trop de champs ?	19/04/2002		gabor		suggestion	View	Edit	De
public	picolibre	High	[MEETINGS] bugs après ajout d'une réunion	18/06/2002		pascal	gabor	meetings	View	Edit	De
public	picolibre	High	[MEETINGS] " Questions proposées " a supprimer	18/06/2002		pascal	gabor	meetings	View	Edit	De
public	picolibre	High	[MEETINGS] pas d'envoi de mél lorsque l'on modifie	19/06/2002		gabor	gabor	meetings	View	Edit	De
public	picolibre	High	[MEETINGS] suppression de tout ce qui suit un "	27/06/2002		pascal	gabor	meetings	View	Edit	De
public	picolibre	High	[BOGUES] Un script de migration sql manque.	27/06/2002		pascal	pellan	bogues	View	Edit	De
public	picolibre	High	[MEETINGS] champs "validé par" manquant.	27/06/2002		pascal	gabor	meetings	View	Edit	De
public	picolibre	High	[WEB] lien vers picolibre.iaai.fr	14/03/2003		eric		site_web	View	Edit	De

Add

March 2002 Month: 3 Year: 2002 Select

Task	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Thème graphique ENST Bretagne	■	■	■	■	■	■	■	■	■	■	■	■	■	■																	
Rédiger mail d'intro																															
[ToDo] Suggestion d'améliorations																															

Fini.

(full size) [mediaobjects/picolibre_int8.png]

Not really comparable to real project management tool

Improved version to be integrated

Bugs list

The screenshot shows a web browser window titled "PicoLibre - Galeon" displaying a bug report page. The browser's address bar shows the URL "https://picolibre.enst-bretagne.fr/picolibre_bug_report/index.php". The page header includes navigation links for "welcome", "preferences", and "logout", and a note "Powered by phpGroupWare version 0.9.1". The main content area features a navigation menu with "Browse | Report | Resolved bugs" and a status bar indicating "showing 1 - 15 of 20 open bugs". A table lists the bugs with columns for ID, Summary, Category, Priority, Date, Assigned to, Open by, Proposed by, and Edit. The table contains 15 rows of data, with the first row (ID 16) having a "maximum" priority.

Bugs	Summary	Category	Priority	Date	Assigned to	Open by	Proposed by	Edit
16	Dans la description courte du projet on ne peut pas mettre de "0"	bogues	maximum	15/01/2002	pascal	pascal	alexksso	Edit
21	Administration PicoLibre/Sympa	bogues	middle	15/01/2002		pascal	sam	Edit
26	notification d'erreur	bogues	middle	16/01/2002		pascal	eric	Edit
39	Intégration Sympa	bogues	High	01/02/2002		pascal	eric	Edit
60	Notification de tâche	modules	Low	26/03/2002		pascal	eric	Edit
63	Problème parsing caractères inf et sup dans commentaires bugs	modules	middle	29/03/2002		pascal	berger_o	Edit
70	Candidature pour rejoindre un projet difficile à faire	bogues	High	04/06/2002		berger_o	berger_o	Edit
71	Accès aux applications pour un projet précis	bogues	middle	04/06/2002		berger_o	berger_o	Edit
73	Pas de redémarrage du démon automatique	modules	Low	04/06/2002		pascal	berger_o	Edit
74	croissance infinie du fichier de logs du démon	bogues	middle	05/06/2002		berger_o	berger_o	Edit
75	Notification de rejet de projet	bogues	middle	07/06/2002		berger_o	eric	Edit
76	Liste de diffusion de tous les utilisateurs créée systématiquement	suggestion	middle	10/06/2002		berger_o	berger_o	Edit
90	Création auto sites web des projets	bogues	Low	26/06/2002		berger_o	berger_o	Edit
109	Accès sécurisé et homogène à cvsweb pour voir les sources des projets privés	suggestion	middle	22/11/2002		berger_o	berger_o	Edit
121	maj attributs du projet	bogues	middle	07/02/2003		pascal	eric	Edit

(full size) [mediaobjects/picolibre_int9.png]

Bug report

Picolibre - Galeon

Fichier Édition Vue Onglet Paramètres Aller à Signets Outils Aide

Arrière Stop 100 https://picolibre.enst-bretagne.fr/picolibre_bug_report/edit.php?bugs_id=39

Powered by [phpGroupware](#) version 0.9.12

[Browse](#) | [Report](#) | [Resolved bugs](#)

Bug # 39

Date	01/02/2002 - 16:31:24
Proposed by	eric
Submitted by	pascal
Assigned to	(current)
State	open (current)
Priority	High
Category	bogues (current)

Add a comment

Comments

06/02/2003 - 12:32:10 by eric
Picolibre 0.9.6
Effectivement, les membres du projet sont bien invités automatiquement à la liste principale.
MAIS pas l'administrateur du projet (celui qui a créé le projet).
-> je change la priorité

26/02/2002 - 15:13:09 by pascal
Idem

26/02/2002 - 15:12:54 by pascal

Project Home
Project Page
Project Todo
Project Bugs
Mailing List
Project Faq

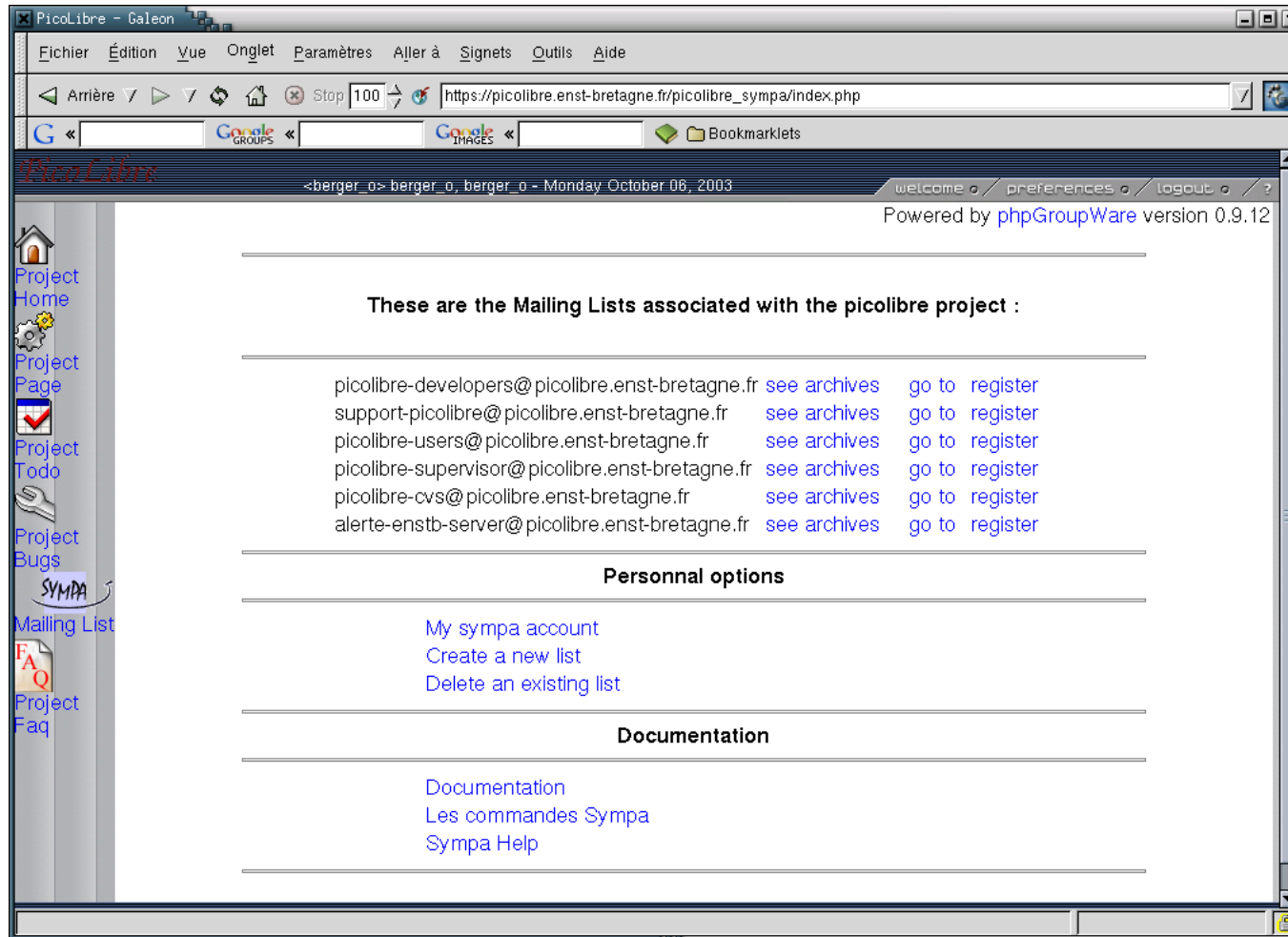
SYMPA

Fini.

(full size) [mediaobjects/picolibre_int10.png]

Each bug has a simple "lifecycle"

Project mailing-lists



(full size) [mediaobjects/picolibre_enstb1.png]

two lists created by default

the lists profiles depend on the project type : public / private

not necessary to have a picolibre login to be registered on a list : quasi-autonomous sympas lists

Mailing-List archives

The screenshot shows a web browser window with the URL `https://picolibre.enst-bretagne.fr/wws/arc/picolibre-developers/2003-09/`. The page title is `picolibre-developers@picolibre.enst-bretagne.fr` and it is identified as the `picolibre-developers list`. The owner is `olivier.berger@int-evry.fr`. The page features a sidebar on the left with links for `List info`, `List admin`, `Subscriber Options`, `Unsubscribe`, `Archive`, and `Post`. The main content area shows a search bar and a calendar for `09 2003`. The message list includes:

- ◆ **Re: commit on PicoLibre Project, next**
 - **Re: commit on PicoLibre Project** Eric.Cousin@enst-bretagne.fr
 - ◇ **Re: commit on PicoLibre Project** Pascal.Pucci@pascalou.org
 - **Re: commit on PicoLibre Project** olivier.berger@int-evry.fr
- ◆ **MAJ...** Pascal.Pucci@pascalou.org
 - ◇ **Re: MAJ...** olivier.berger@int-evry.fr
 - **Re: MAJ...** Pascal.Pucci@pascalou.org
- ◆ **Sympa sur demo** julien.mallet@enst-bretagne.fr
- ◆ **picolibre, test version demo** Eric.Cousin@enst-bretagne.fr
 - ◇ **Re: picolibre, test version demo** Pascal.Pucci@pascalou.org
 - **Re: picolibre, test version demo** Eric.Cousin@enst-bretagne.fr
 - **Re: picolibre, test version demo** Pascal.Pucci@pascalou.org
 - **Re: picolibre, test version demo** Pascal.Pucci@pascalou.org
 - ◇ **Re: picolibre, test version demo** Gerald.Ouvradou@enst-bretagne.fr

The page is powered by `MhonArc 2.5.2`.

(full size) [mediaobjects/picolibre_enstb2.png]

Sympa's interface is not fully integrated into PicoLibre at the present time.

Project's FAQ

Frequently Asked Questions

PicoLibre - Galeon

Fichier Édition Vue Onglet Paramètres Aller à Signets Outils Aide

Arrière / Stop 100 https://picolibre.enst-bretagne.fr/picolibre_faq/index.php

Google GROUPS Google IMAGES Bookmarks

PicoLibre

<berger_o> berger_o, berger_o - Monday October 06, 2003

welcome / preferences / logout / ?

Powered by [phpGroupWare](#) version 0.9.12

Frequently Asked Questions

[Propose a question](#) [Add a category](#)

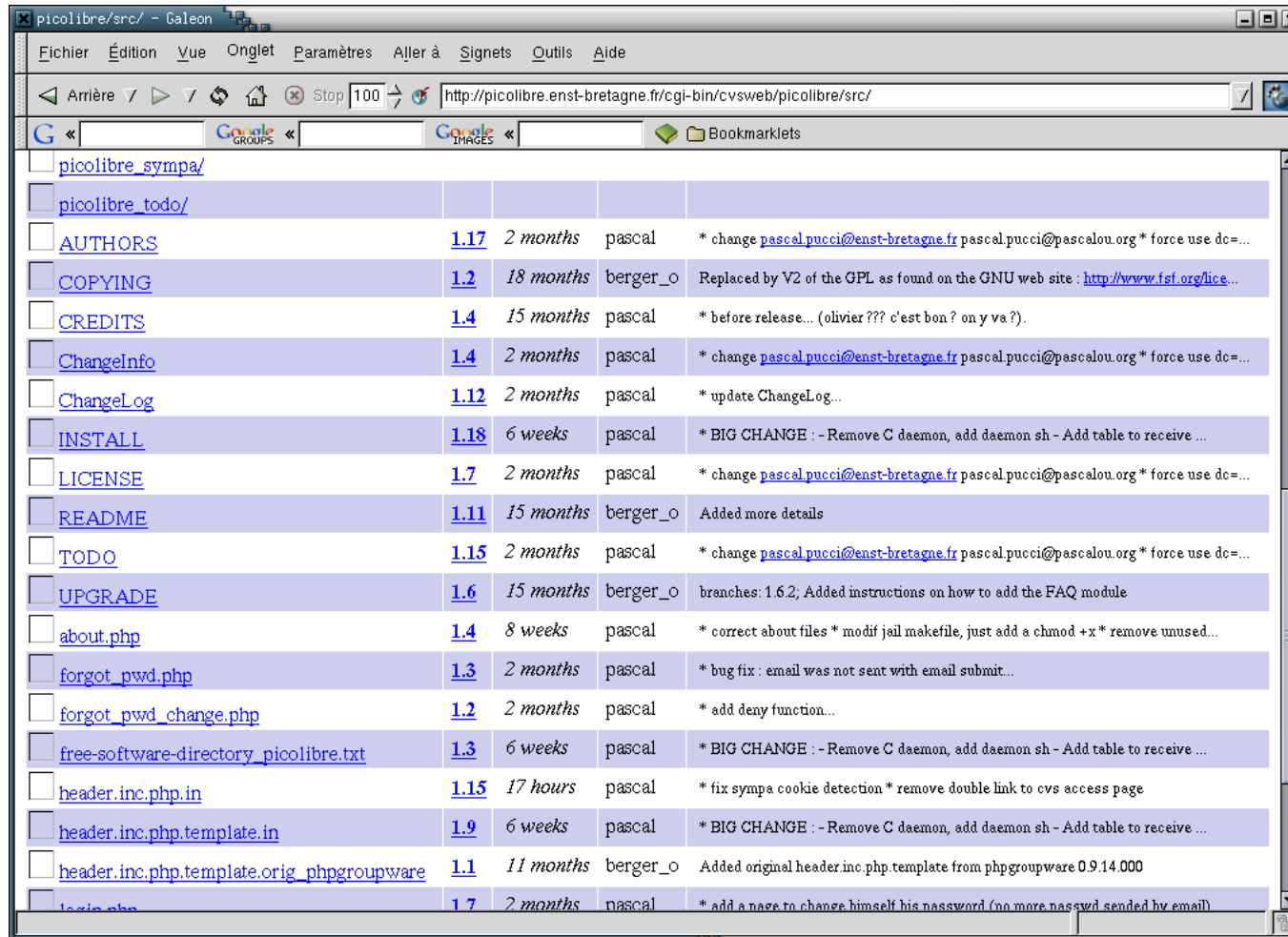
- **Questions proposed**
 - fautes orthographe page d'accueil [validate](#) [Delete](#)
 - Pb de réentrance [validate](#) [Delete](#)
 - echancier : affichage par défaut [validate](#) [Delete](#)
 - Droit donné à un utilisateur ne s'effectue pas. [validate](#) [Delete](#)
- **Utilisation d'un serveur PicoLibre** [Delete](#)
 - CVSWEB ne me donne pas accès au repertoire src du projet [modify](#) [Delete](#)
 - Comment utiliser CVS dans PicoLibre quand on est sous Windows [modify](#) [Delete](#)
- **Administration d'un serveur PicoLibre** [Delete](#)
- **Installation d'un serveur PicoLibre** [Delete](#)
- **Développement du projet PicoLibre** [Delete](#)
 - Comment aider à la traduction de PicoLibre ? [modify](#) [Delete](#)
- **Qu'est-ce que PicoLibre ?** [Delete](#)
 - Qu'est-ce qui différencie PicoLibre d'autre plateforme telle que SourceForge ? [modify](#) [Delete](#)
 - Pourquoi ce projet s'intitule-t-il PicoLibre ? [modify](#) [Delete](#)

Utilisation d'un serveur PicoLibre

CVSWEB ne me donne pas accès au repertoire src du projet
Si le projet est de type "privé", cela est normal.
En effet, comme CVSWEB ne gère pas l'authentification et que seuls les membres du projet doivent avoir accès au code source d'un projet privé, l'accès au repertoire src par CVSWEB est interdit pour un projet privé.

(full size) [mediaobjects/picolibre_enstb3.png]

CVS browsing



(full size) [mediaobjects/picolibre_enstb4.png]

Allows browsing the contents of the CVS Repository

Uses a dedicated tool (CVSWeb) not fully integrated into PicoLibre

CVS Repository

CVS : *Concurrent Versions System*

Standard configuration management tool in the free software world for program development

Manages source files

Each project contains :

src/ directory/module	contains sources for programs and documents
:	not browsable by non-members of the project for private projects
web/ directory/module	contains the website static HTML pages and documents
:	its content constructs automatically the website (crontab)
	always browsable for private projects

Secure access via SSH (plus chroot-ed environment)

Not very well adapted to managing non source oriented documents

does not impose a specific development process (quality review, synchronisation, testing, release process, etc.)

Browsing CVS revisions for a file

CVS log for picolibre/src/README

Up to [\[Development\]](#) / [picolibre](#) / [src](#)

[Request diff between arbitrary revisions](#)

Default branch: 1

Revision [1.9.2.1](#) / ([download](#)) - [annotate](#) - [\[select for diffs\]](#) , *Fri Jul 12 09:28:59 2002 UTC* (14 months, 3 weeks ago) by *pascal*
Branch: [B_modif_S4_TODO](#)
CVS Tags: [GANTT_BEGIN](#)
Changes since 1.9: **+36 -13 lines**
Diff to previous [1.9](#) next main [1.10](#)

* Merge unstable branche "B_modif_S4_TODO" containing unstable module with the Main which is port to phpgroupware 0.9.14.

Revision [1.11](#) / ([download](#)) - [annotate](#) - [\[select for diffs\]](#) , *Tue Jul 2 14:16:42 2002 UTC* (15 months ago) by *berger_o*
CVS Tags: [stdapps](#), [PicoLibre-0_9_10rc1-PHPGW-0_9_14](#), [PicoLibre-0_9_10pre1-PHPGW-0_9_14](#), [HEAD](#)
Changes since 1.10: **+13 -1 lines**
Diff to previous [1.10](#)

Added more details

Revision [1.10](#) / ([download](#)) - [annotate](#) - [\[select for diffs\]](#) , *Tue Jul 2 08:39:38 2002 UTC* (15 months ago) by *berger_o*
Changes since 1.9: **+24 -13 lines**
Diff to previous [1.9](#)

Added more details

Revision [1.9](#) / ([download](#)) - [annotate](#) - [\[select for diffs\]](#) , *Fri Mar 29 16:26:57 2002 UTC* (18 months, 1 week ago) by *berger_o*
CVS Tags: [mainline_1_before_merge_with_top_STABLE_0_9_6_PHPGW_0_9_13_before_merge_B_PHPGW_0_9_14_with_MAIN](#)

(full size) [mediaobjects/]

Multiple branches

Tags

Best viewed in graphical CVS client

Read-Only

Comparing two revisions

The screenshot shows a web browser window displaying a diff comparison between two versions of a README file. The browser's address bar shows the URL: <http://picolibre.enst-bretagne.fr/cgi-bin/cvsweb/picolibre/src/README.diff?r1=1.10&r2=1.11>. The page title is "Diff for /picolibre/src/README between version 1.10 and 1.11".

The diff is presented in a two-column format:

- Left Column (version 1.10, 2002/07/02 08:39:38):**
 - Line 2:** \$Id\$
 - Description :**
 - The aim of the PiCoLibre project is to develop a collaborative platform for developing software within an educational context.
 - Line 20:** will implement the CoopX protocol (cf <http://coopx.eu.org/>) which will allow it to interconnect with other software development platforms.
- Right Column (version 1.11, 2002/07/02 14:16:42):**
 - Line 2:** \$Id\$
 - Description :**
 - The aim of the PiCoLibre project is to develop a collaborative platform for developing software within an educational context.
 - Line 21:** will implement the CoopX protocol (cf <http://coopx.eu.org/>) which will allow it to interconnect with other software development platforms.
 - Compatibility**
 - PicoLibre runs on top of a GNU/Linux system. PicoLibre has been tested on Debian GNU/Linux woody release and Mandrake Linux at the present time.
 - Further information**

At the bottom of each column, there is a note: "Please read AUTHORS to see who develops PicoLibre."

(full size) [mediaobjects/picolibre_enstb6.jpg]

Project administration

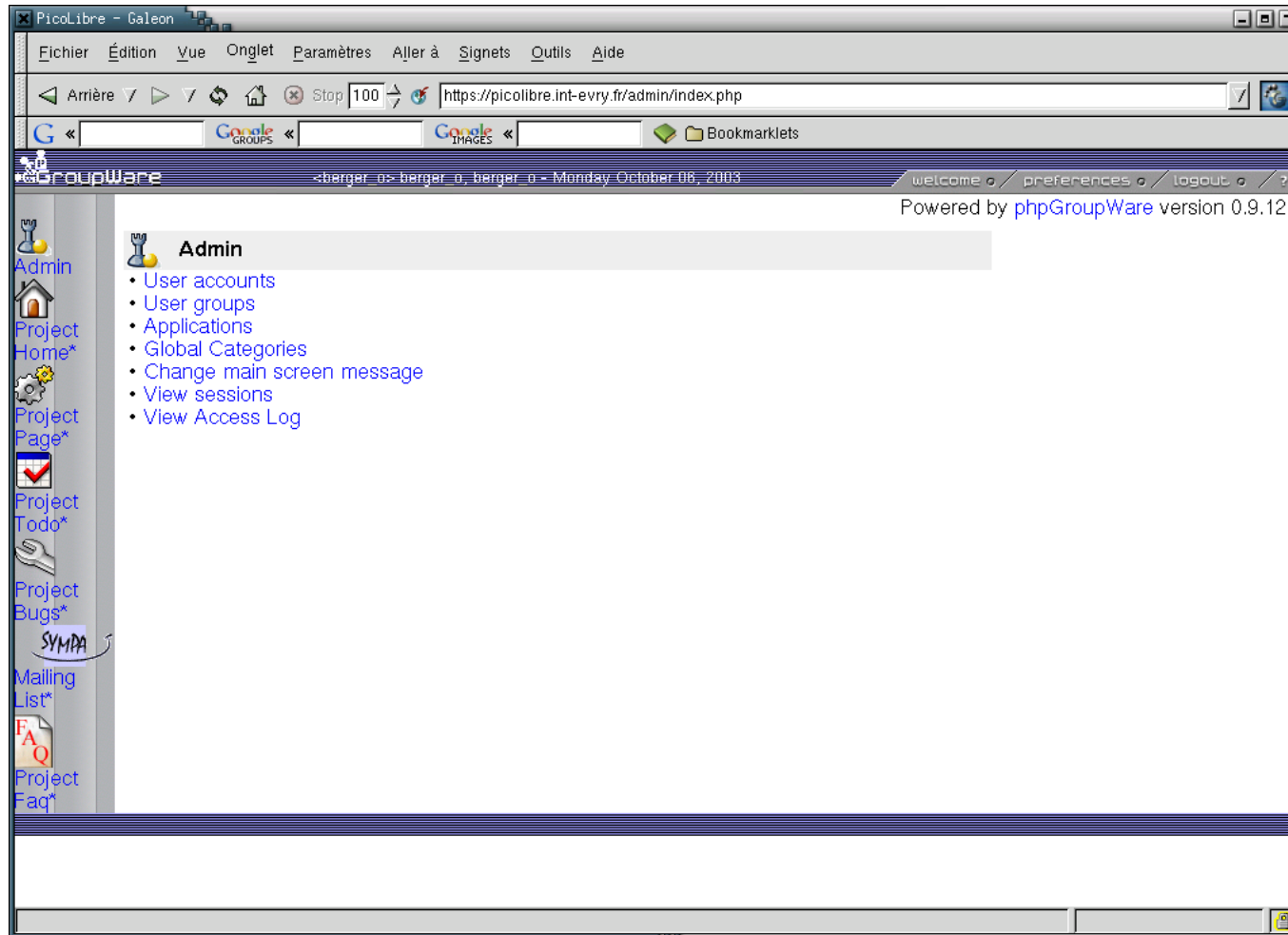
Project administration interface showing a table of users and their roles.

User Name	Project Admin	Project Page	Project Bugs	Project Todo	Mailing List	Project Faq
legleau	No	Access	propose	All	Access	All
eric	Yes	Access	All	All	Access	Normal
pascal	Yes	Access	All	All	Access	Normal
lalevee	No	Access	propose	Normal	Access	Normal
sam	Yes	Access	All	All	Access	Normal
sylvain	No	Access	All	All	Access	Normal
Zebulon	No	Access	All	All	Access	Normal
cbac	Yes	Access	All	All	Access	Normal
ouvradou	Yes	Access	All	All	Access	Normal
patrice	No	Access	All	All	Access	Normal
esawayaya	No	Access	propose	All	Access	Normal
tourotou	No	Access	propose	All	Access	Normal

(full size) [mediaobjects/picolibre_enstb7.png]

add or remove members to the project

Administrative interface



(full size) [mediaobjects/picolibre_int11.png]

for PicoLibre administrator's eyes only

Developer's tools

Operating System

PicoLibre is compatible with any "client" O.S.

Better integration on Un*x-like (GNU/Linux), though.

CVS clients

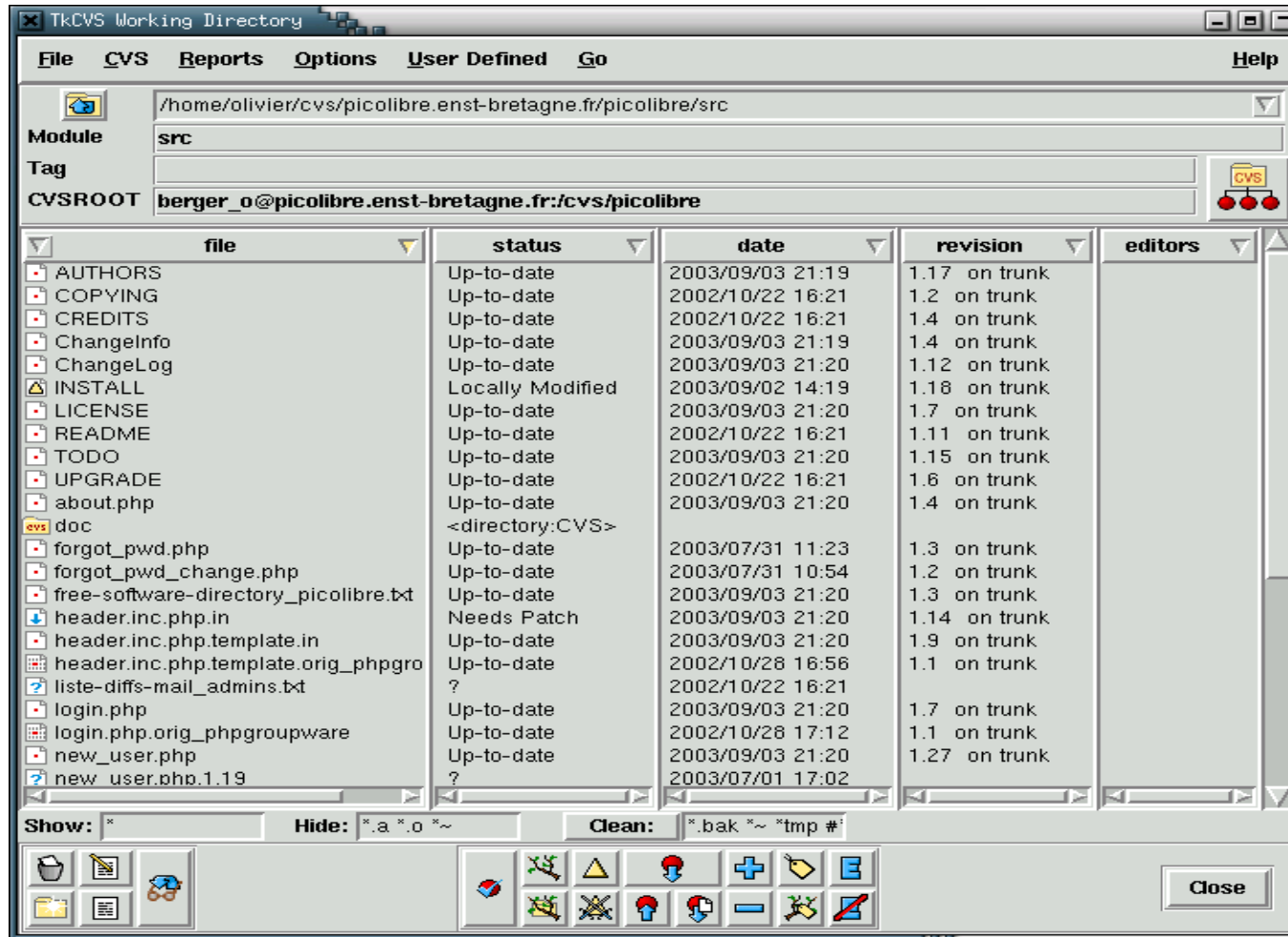
Using a good graphical client helps a lot to understand what's happening

- **TkCVS**
- **WinCVS**
- **Eclipse**
- **good old CVS command-line tools**

not a course on CVS... planned in the curriculum I think

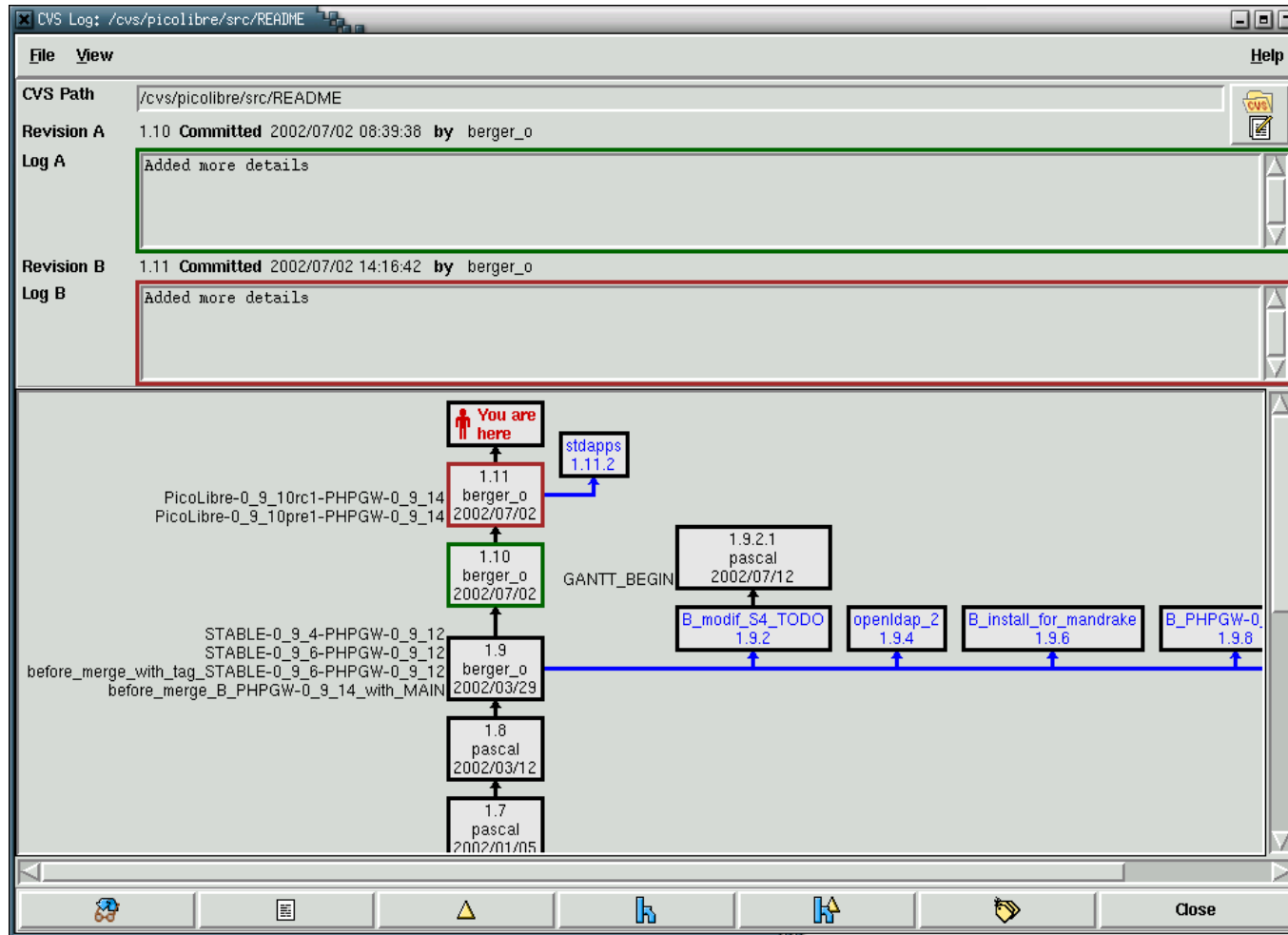
not sure these tools are all available on the platforms you'll work on

TkCVS main screen



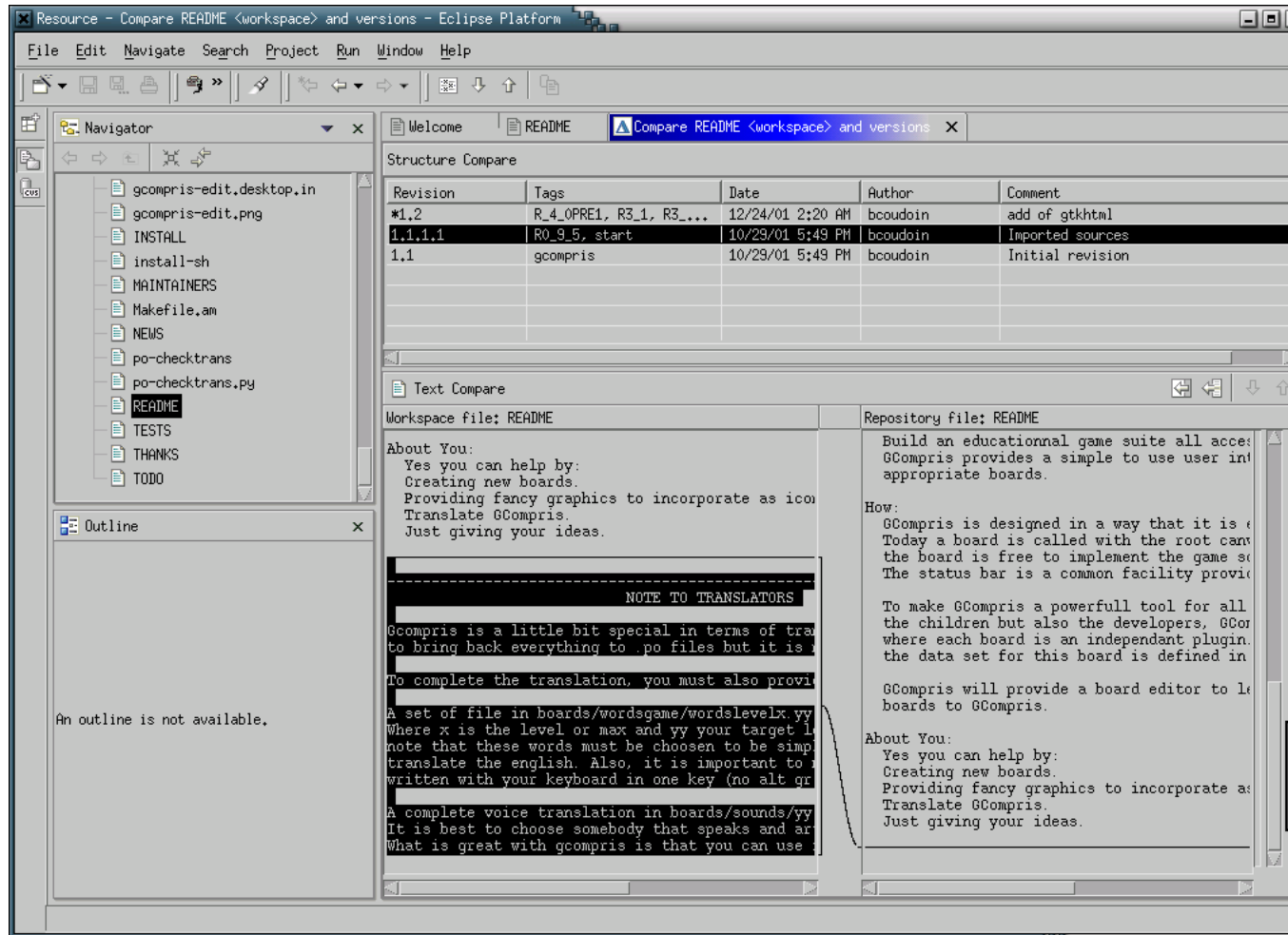
(full size) [mediaobjects/tkcv1.png]

TkCVS graphical log viewer



(full size) [mediaobjects/tkcv2.png]

Eclipse



(full size) [mediaobjects/eclipse1.png]

CVS support

I'm not sure it's fully compliant with PicoLibre CVS setup

A browser !

Of course you'll need a browser

“Best viewed with Any Browser !”

Working with PicoLibre

Initial steps

- 1. register yourself**
- 2. submit a project ? (moderation)**
- 3. join an existing project (ask its project manager)**

Then, you're free to do almost whatever you want

Project registration

Not yet a real policy on which projects may be submitted

At the present time, we ask for a link to INT

Other hosting solutions exist

Areas for improvement

Typing CVS access password

Various other areas

Still a young project

Extensions :

- “codename PicoGET”
- Going CoopX <http://www.coopx.eu.org/> (Cf. the project presentation next week)

You're welcome to help ;-)

Help-Desk

You may contact the PicoLibre Help-Desk

`<help@picolibre.int-evry.fr>`

Documentation and other useful documents at : <http://www.picolibre.org/doc/>

Conclusion

Most learning effort needed : CVS

Importance of COMMUNICATION

Hope you will use PicoLibre during your projects

Legalese

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Appendices

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