

Gestion de projets

- Gestion de versions
- Redmine et gestion de tickets

Essentiellement extraits des cours de Sébastien Mosser
<http://www.i3s.unice.fr/~mosser/>

Quelques ajouts de M. Blay-Fornarino

Objectifs de ce cours

- ✓ Que vous compreniez l'intérêt d'un gestionnaire de version.
- ✓ Que vous aillez une vue un peu plus concrète de la gestion de projet outillé

➡ En TD :

- Au choix, cette semaine ou la suivante vous apprenez à utiliser le gestionnaire de versions
- Vous essayez d'utiliser un peu les tickets et la planification (cette semaine).



Collaborative Development & Source Code Versioning

Sébastien Mosser

Lecture #2, 11.02.2013





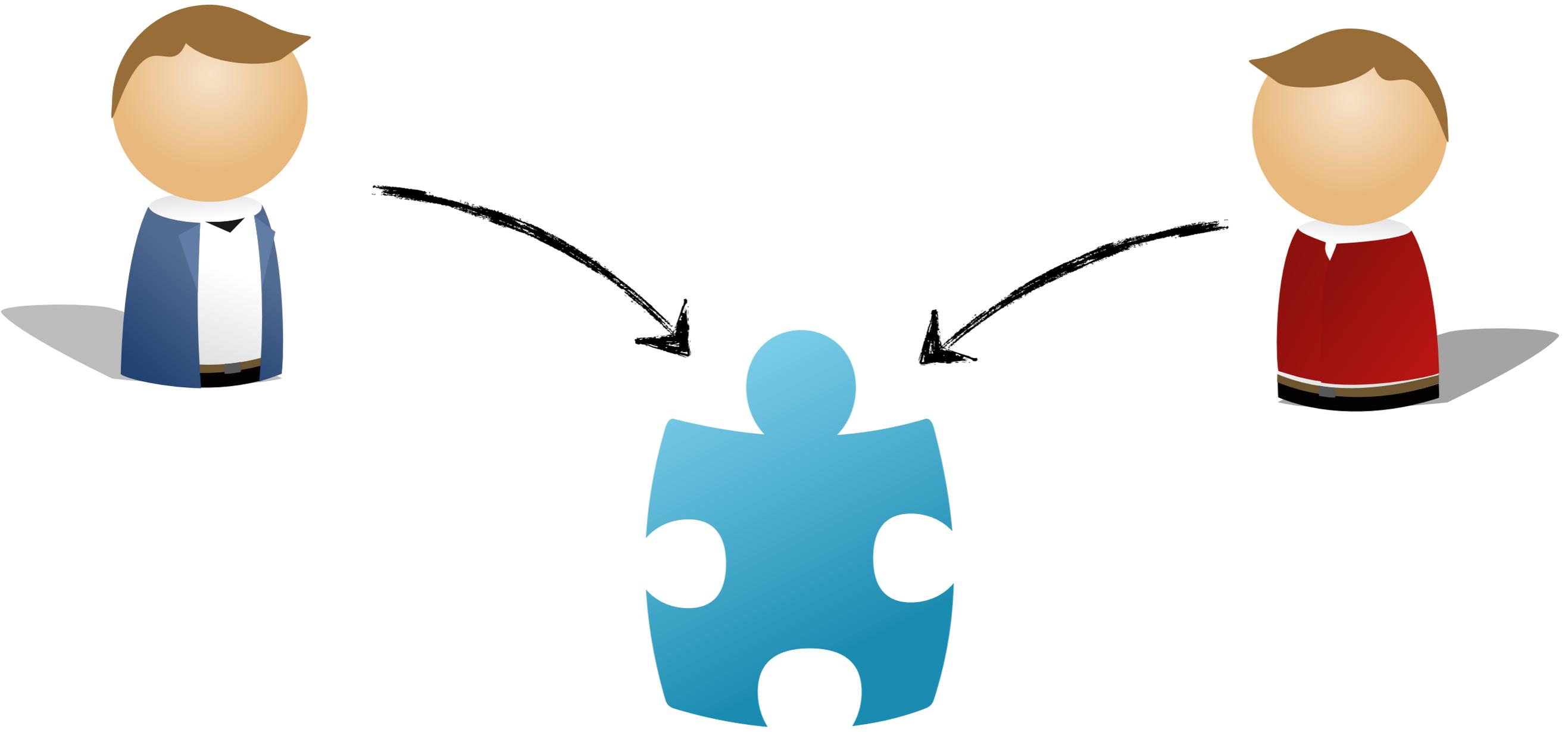
developer

works on



*piece of
software*

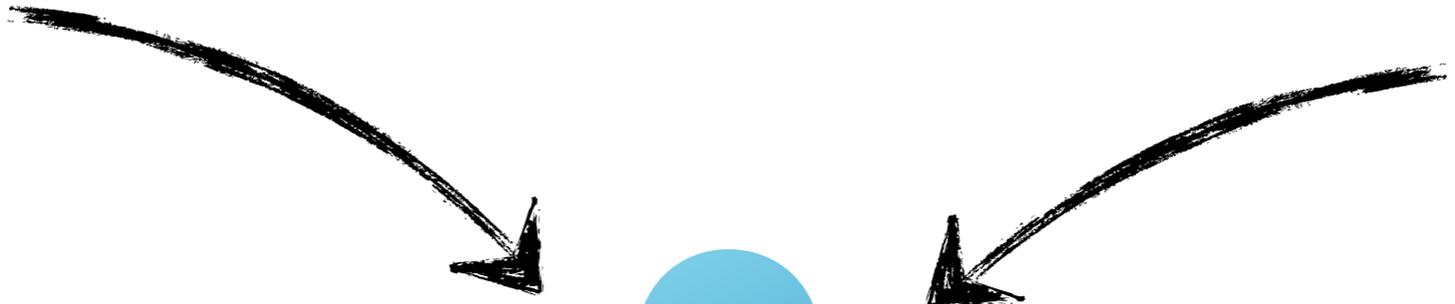
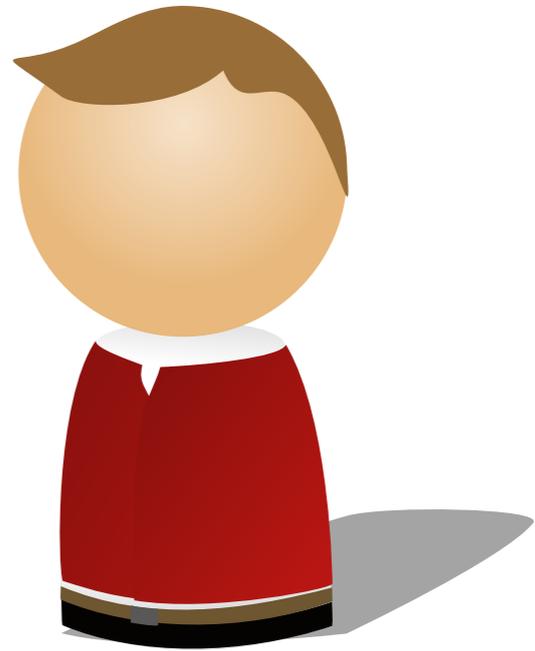
Collaborative Development



Email?

USB Key?

Shared directory?



????

IRISA
Rennes 1



LIFL
Université Lille 1
Inria Lille-Nord Europe

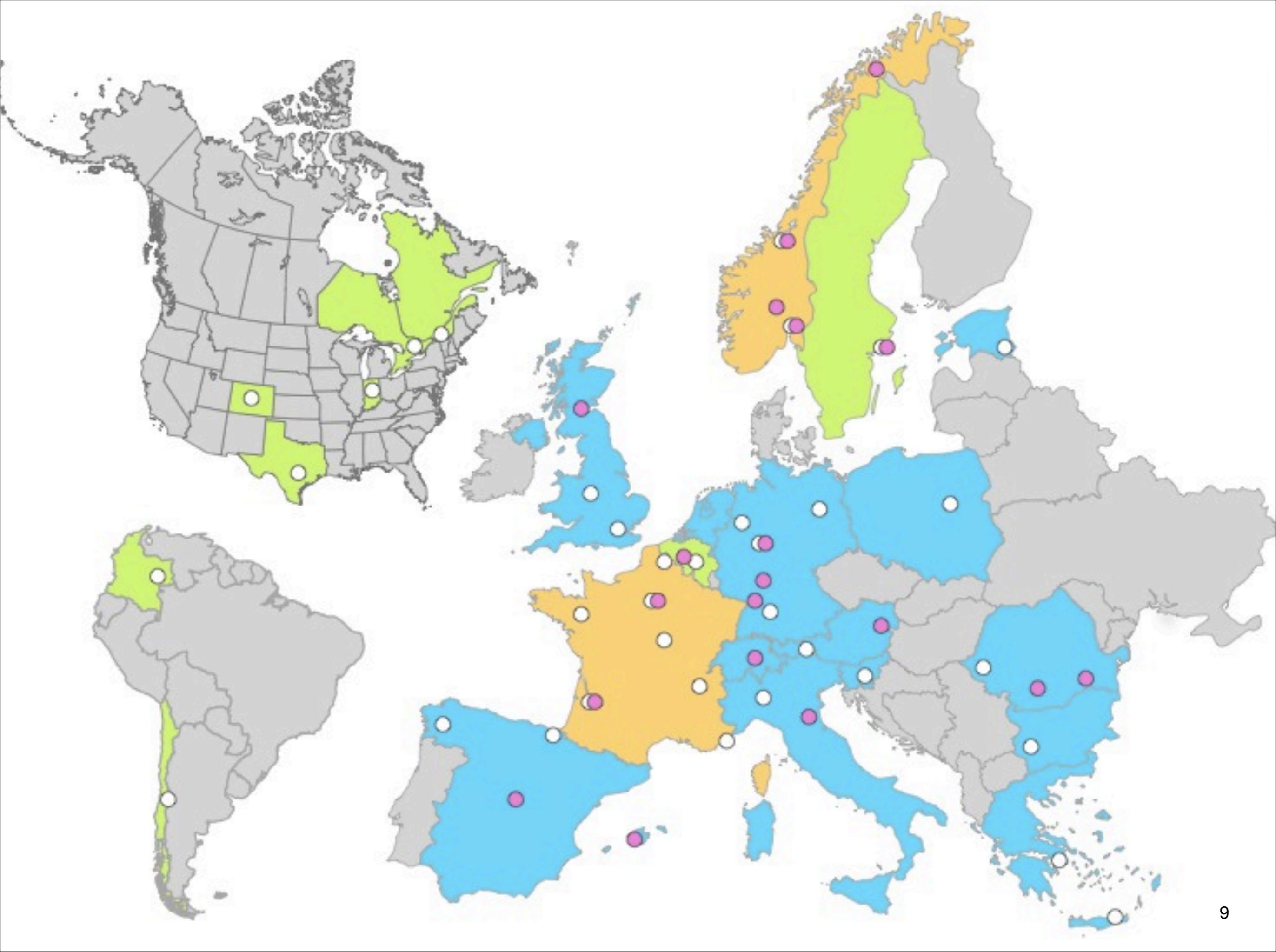


LaBRI
Bordeaux 1



I3S
UNS



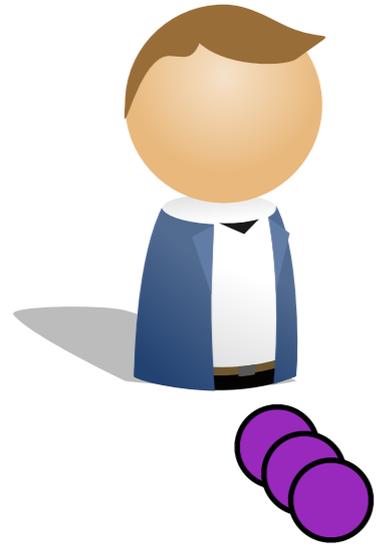




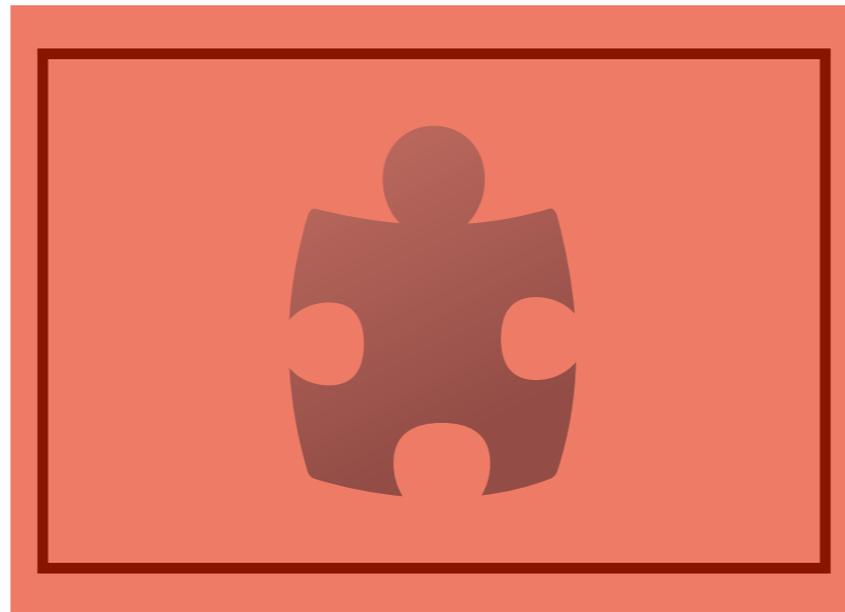
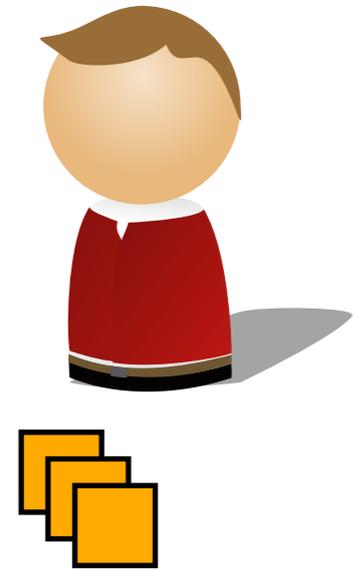
«Why do we version
source code?»

Motivations
(among others)

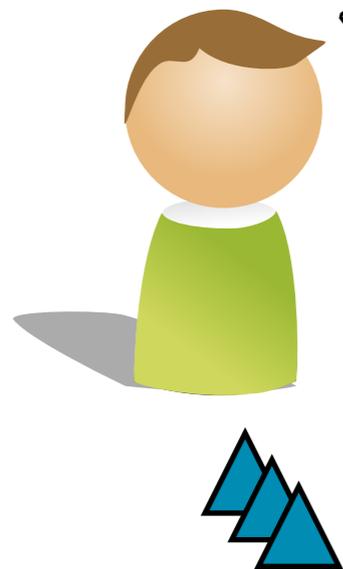
«not me!»



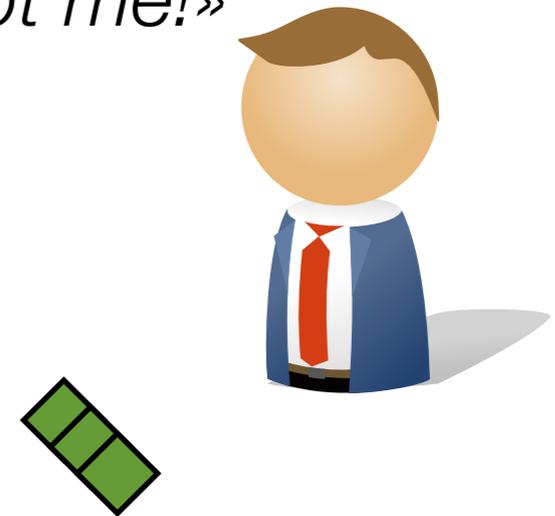
«not me!»



«not me!»

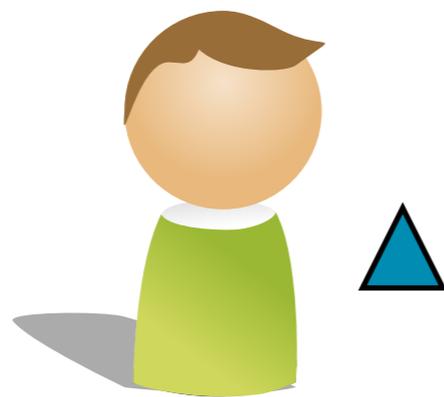
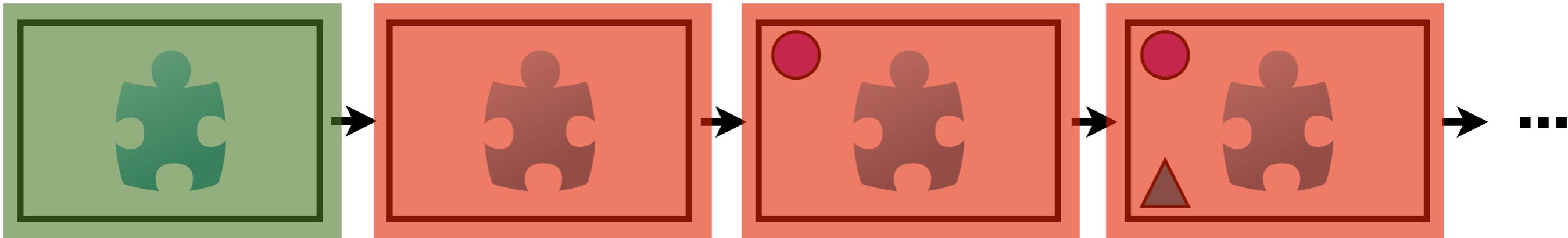
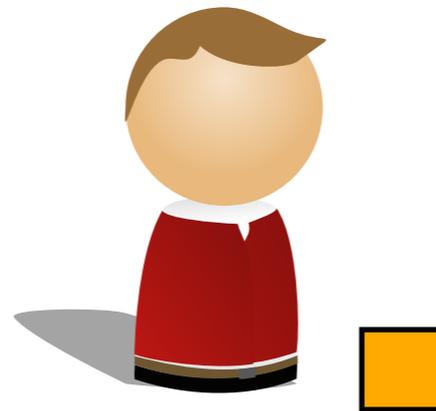
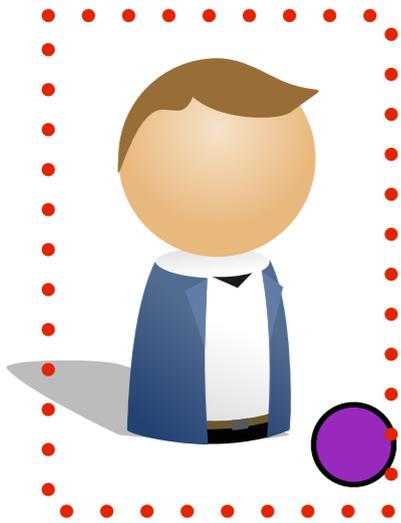


«not me!»



BUG!

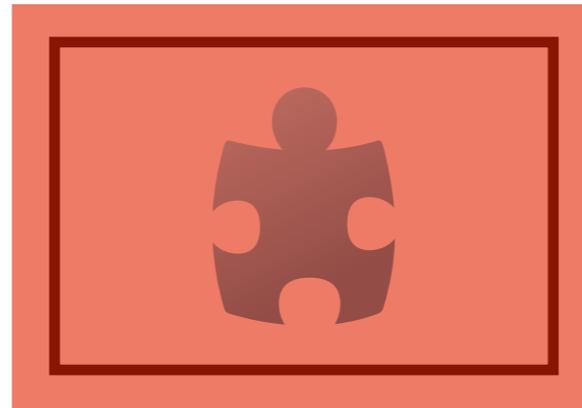
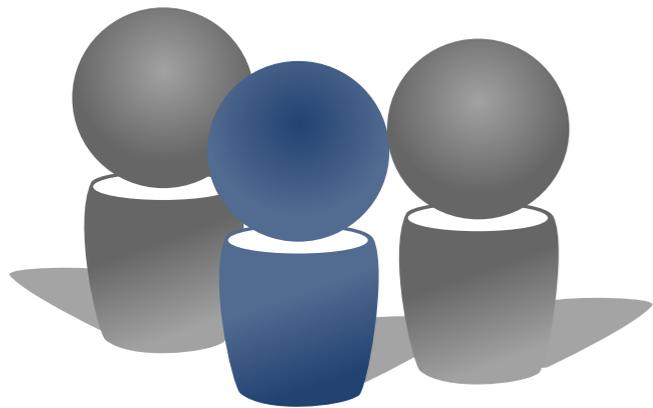
To trace changes!



BUG!

Here is the new release!

???



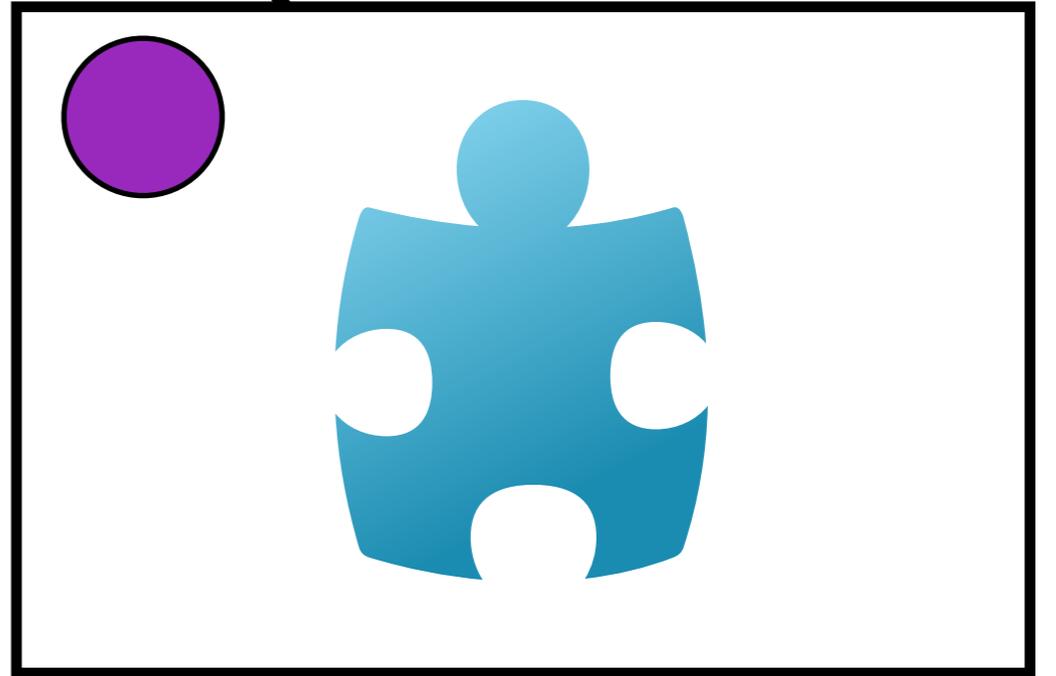
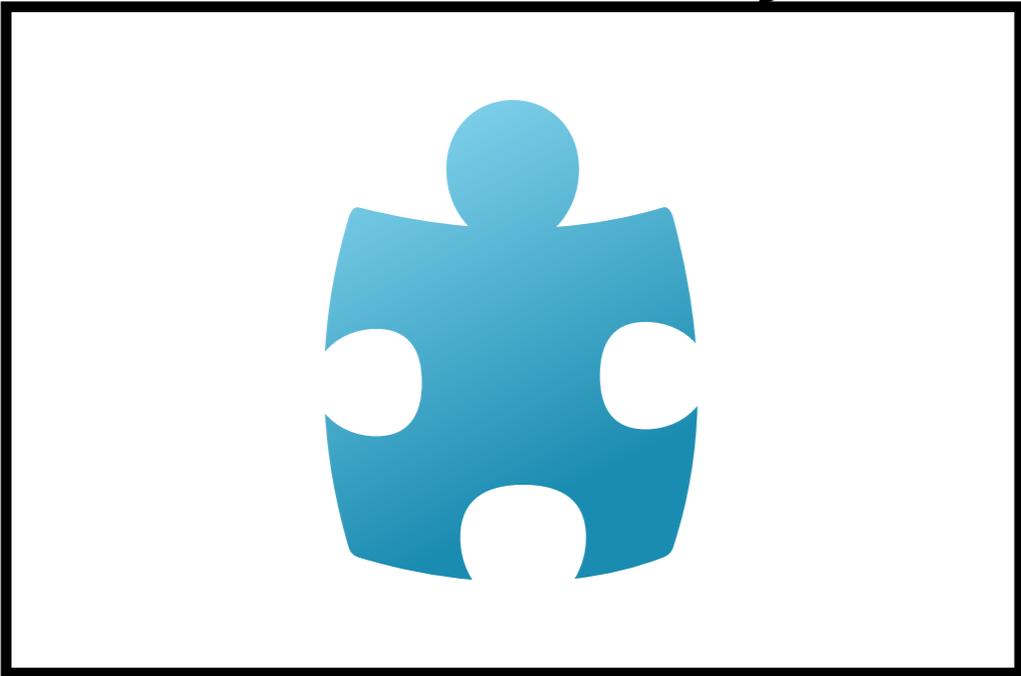
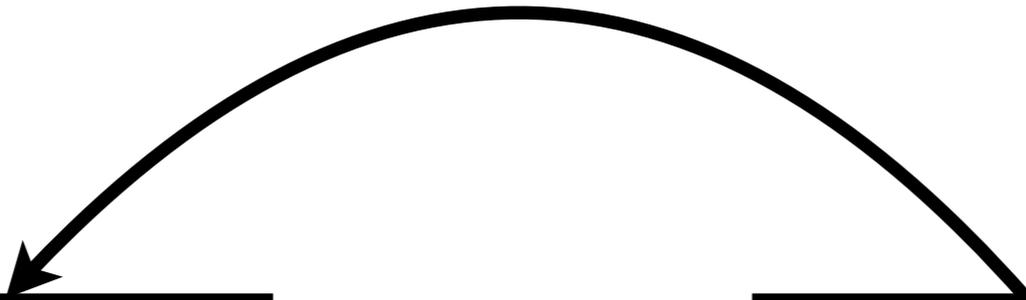
BUG!

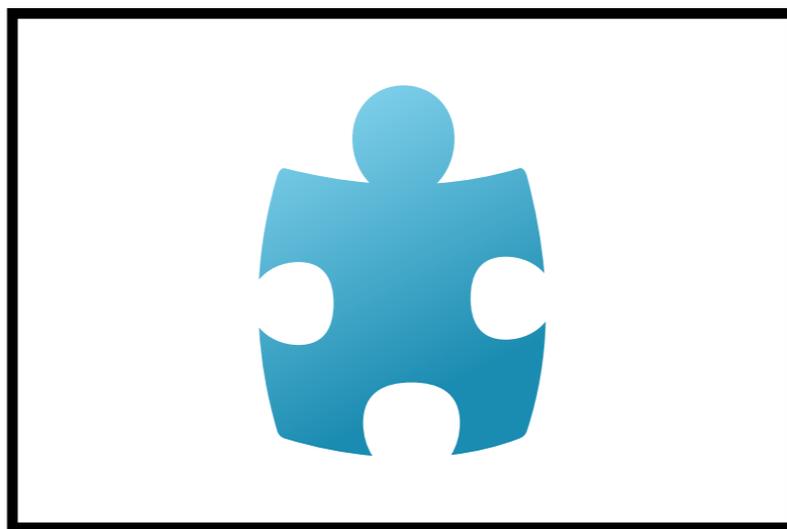
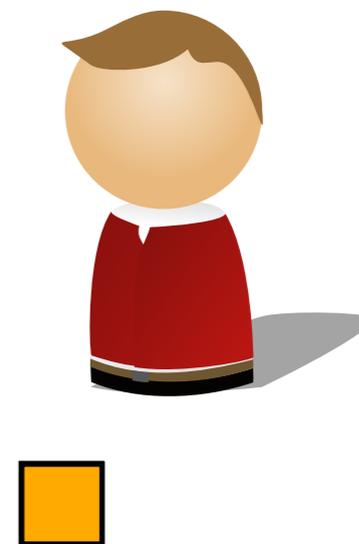
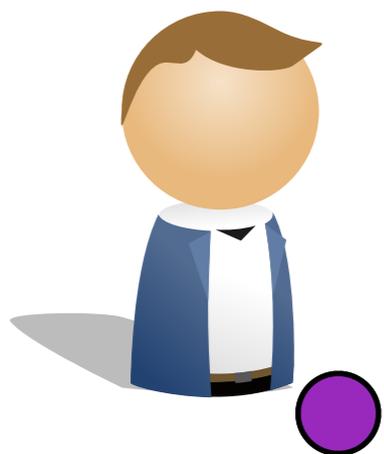
It was working
2 days ago...

Can I see it?

**To rollback
changes!**

rollback

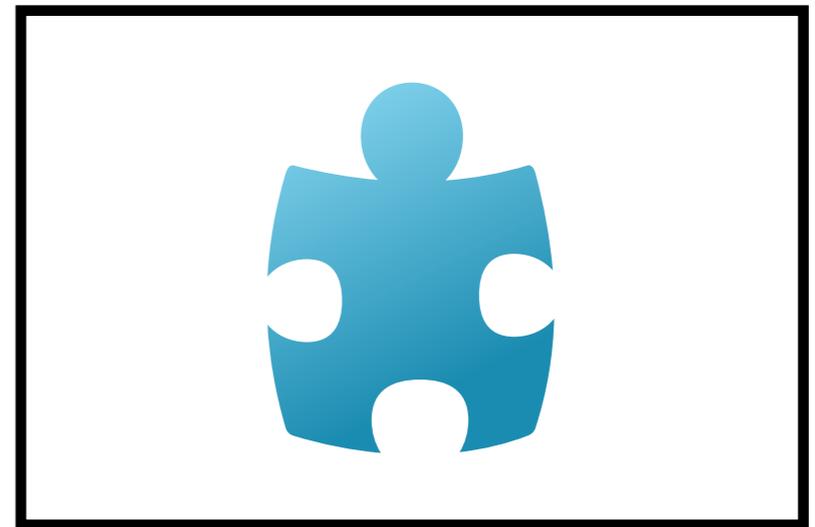
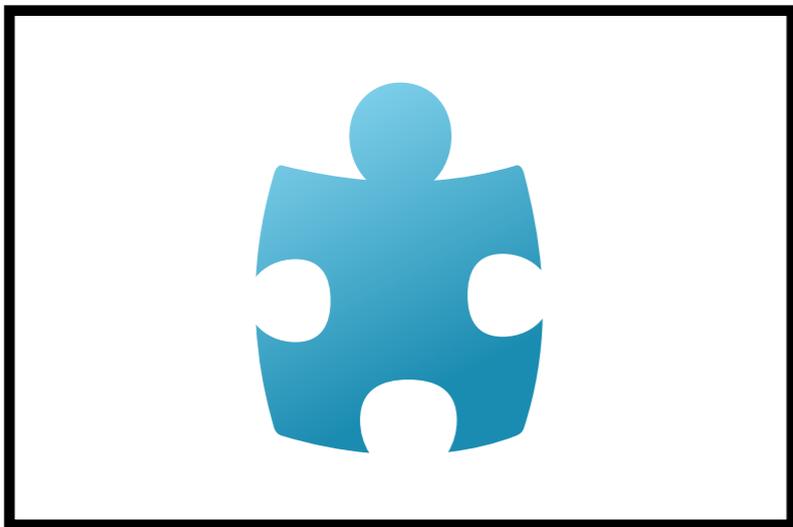
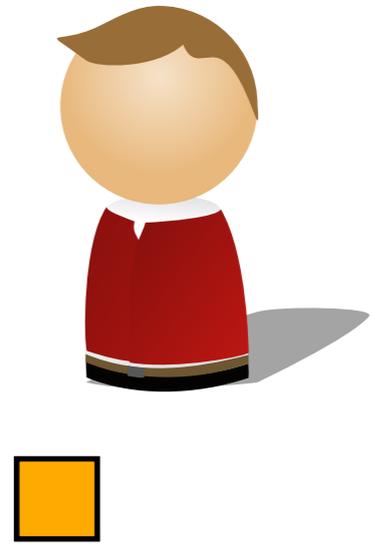
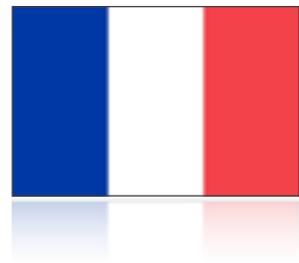
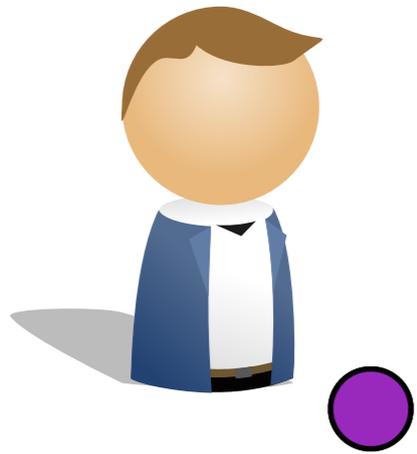




???

???

To share changes!

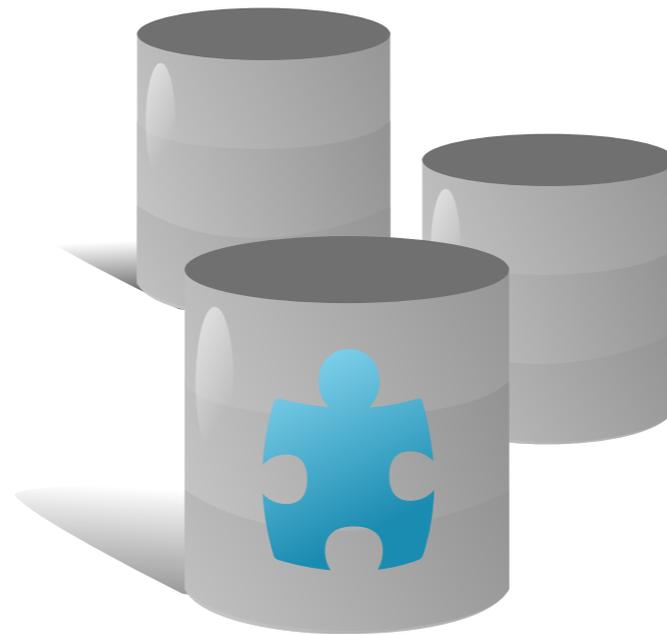
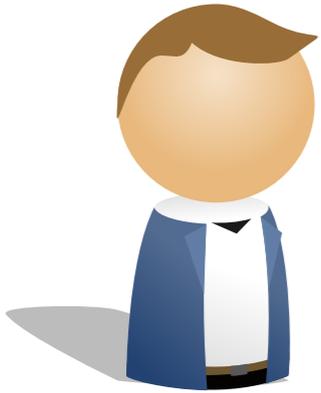




Centralized Model

(e.g., CVS, Subversion)

Shared Repository

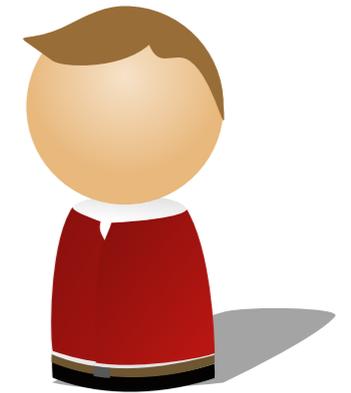
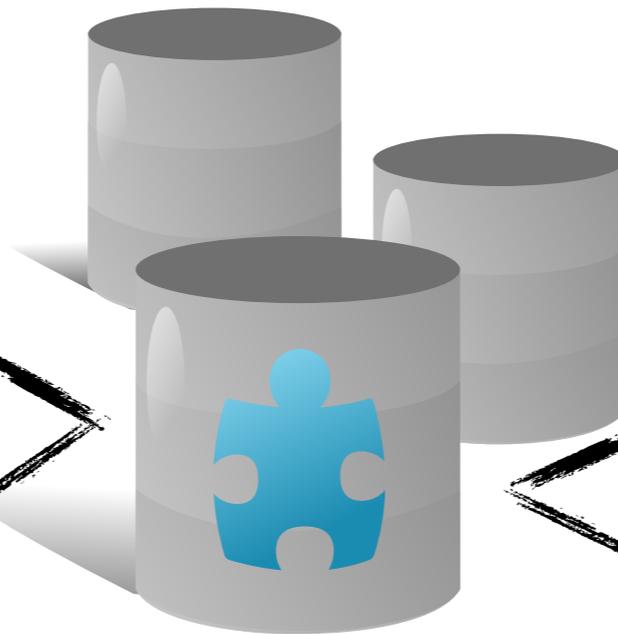
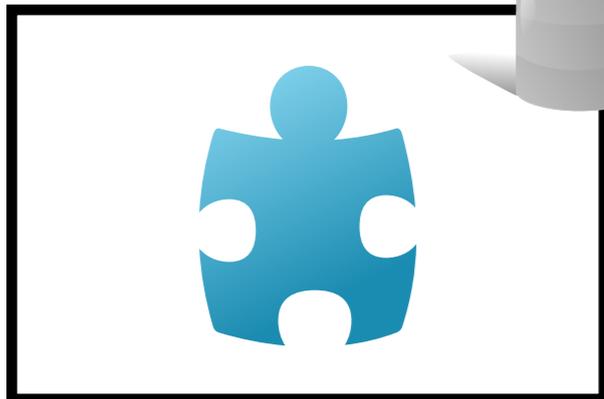


create

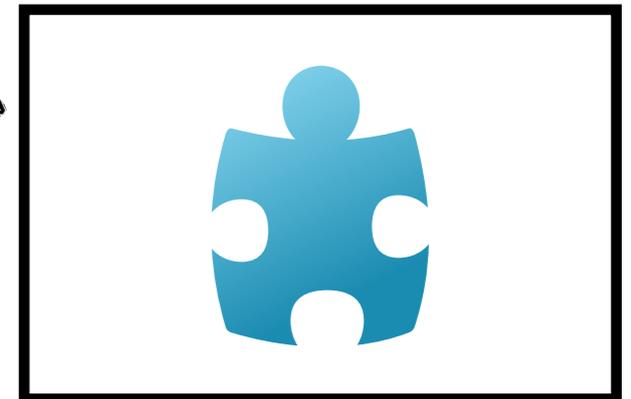
Shared Repository



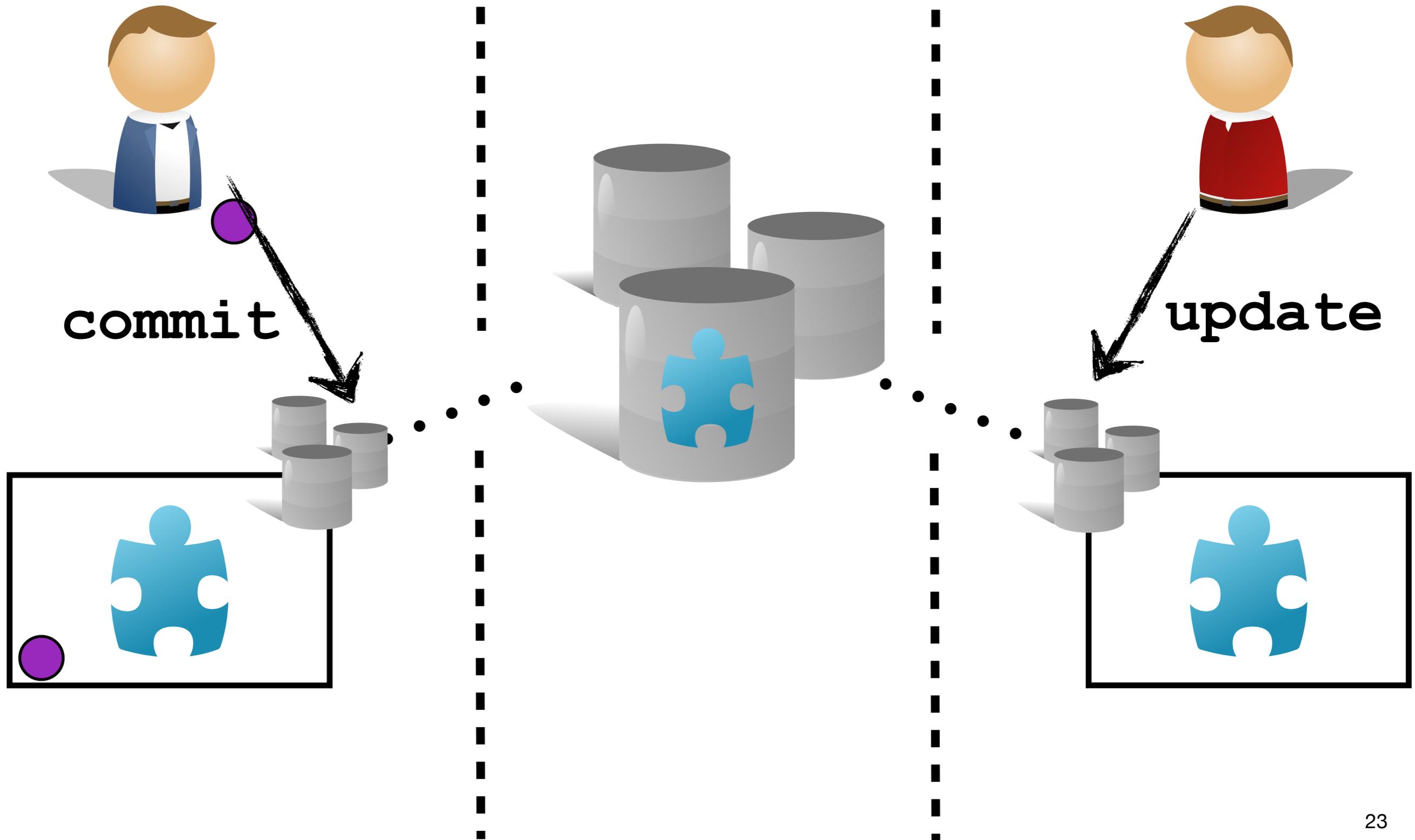
checkout



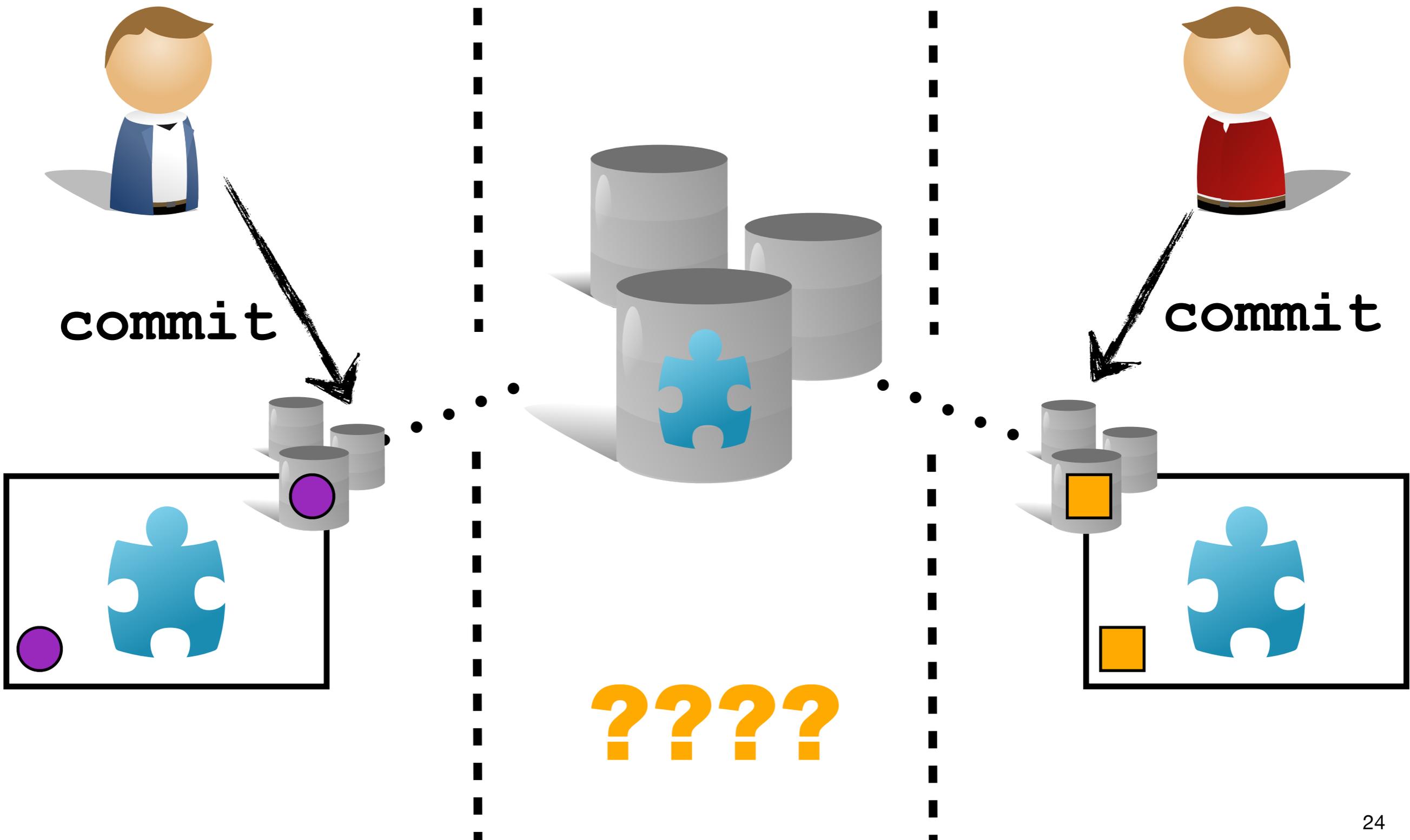
export

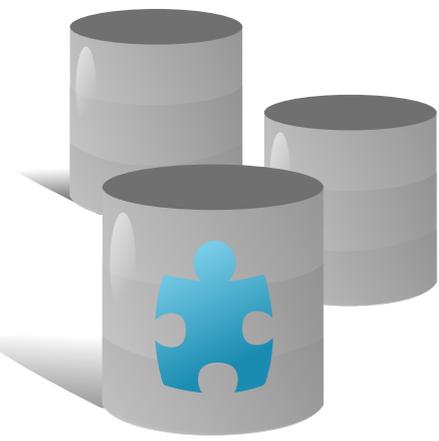


Shared Repository

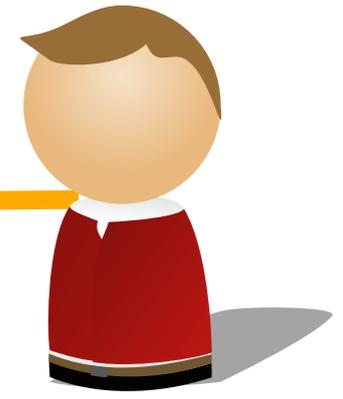
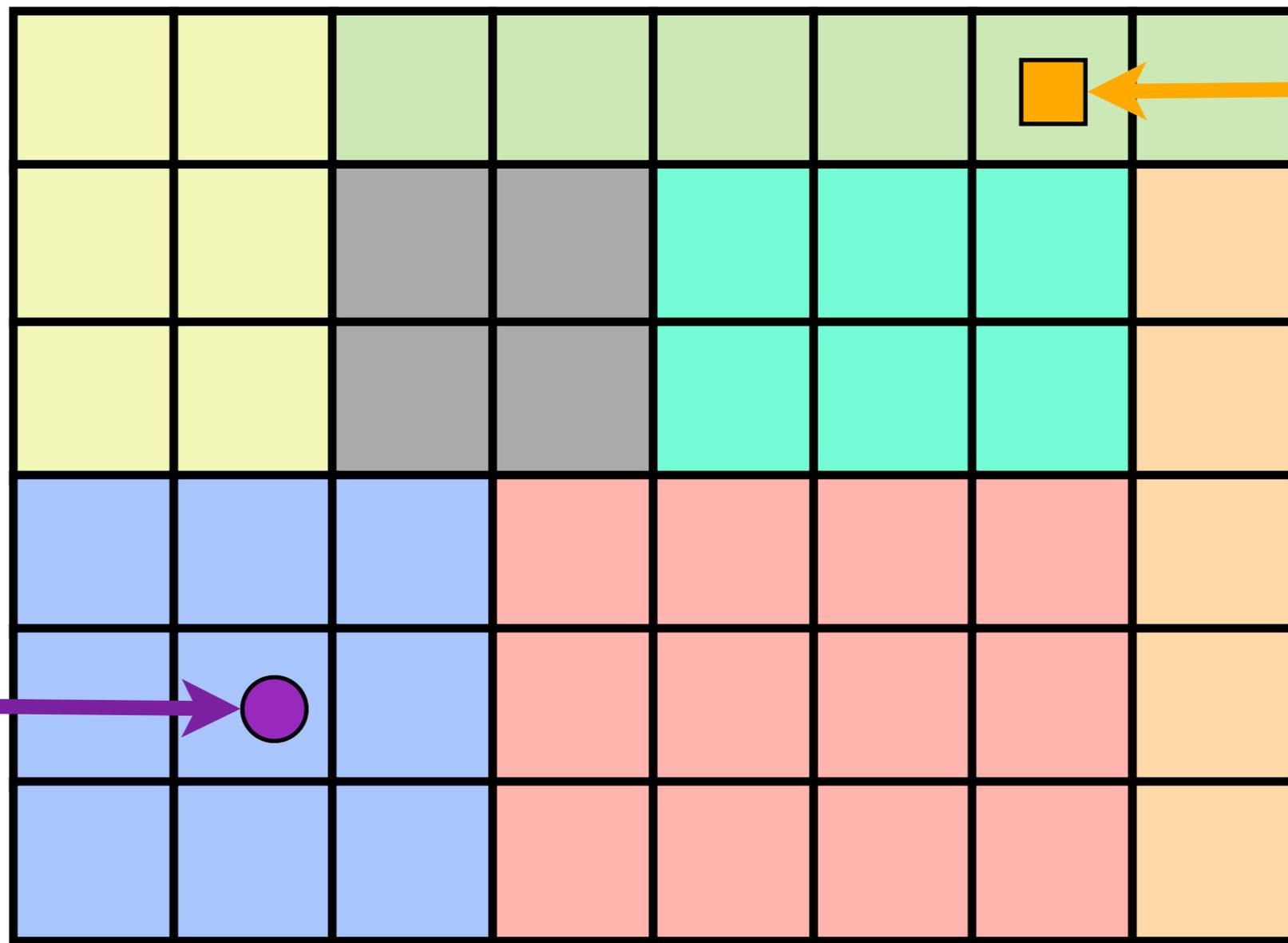


Shared Repository



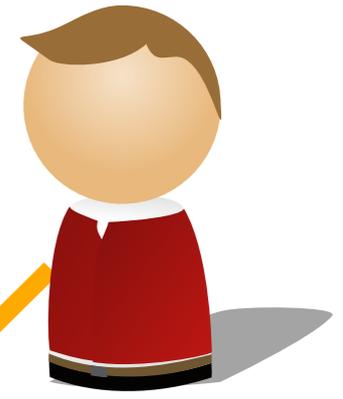
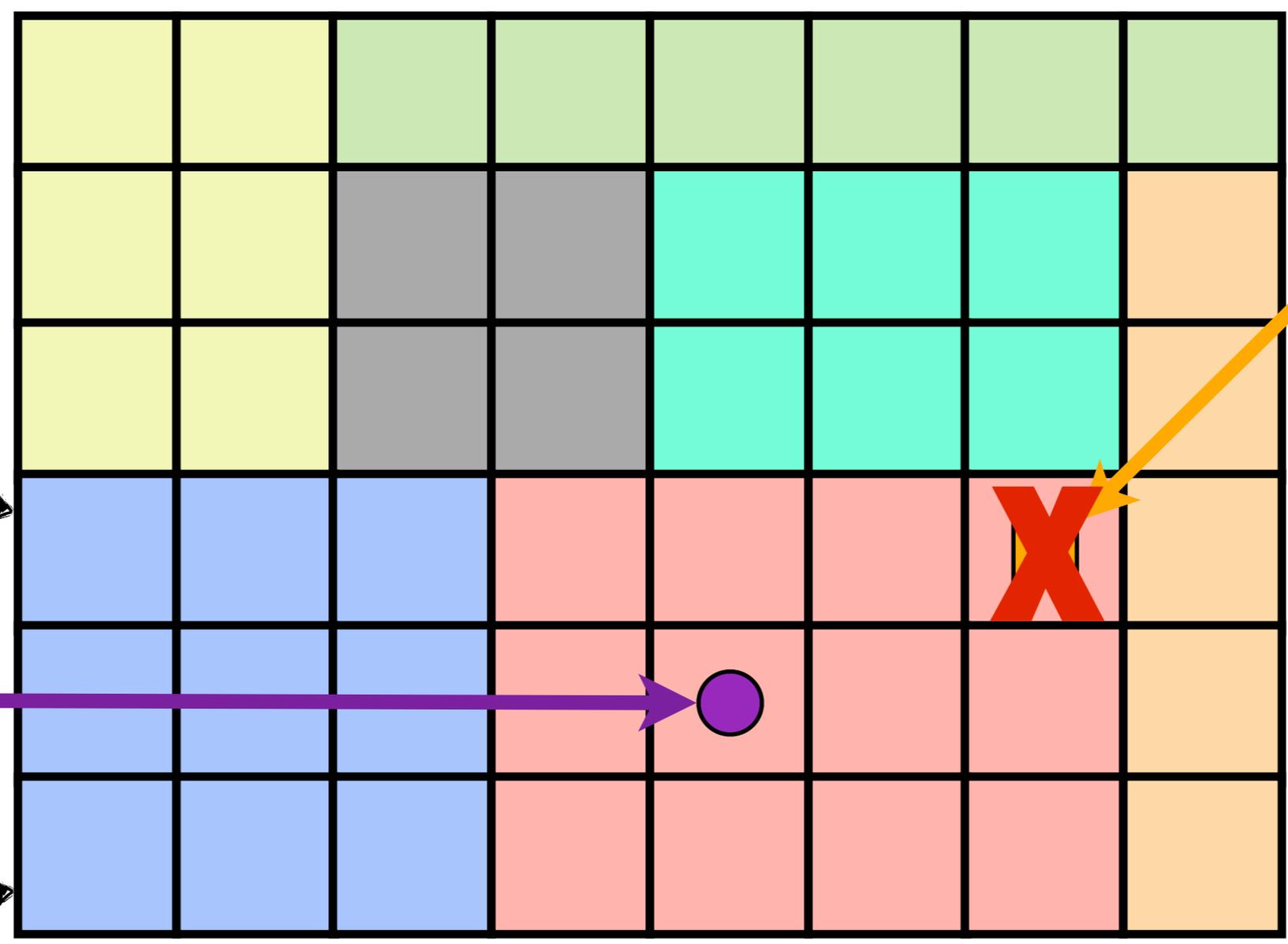
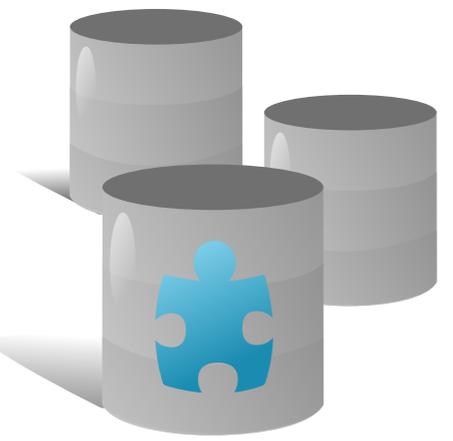


Case #1: different files



Atomic operations. No problem at all!

Case #2: different part of the same file



1. lock

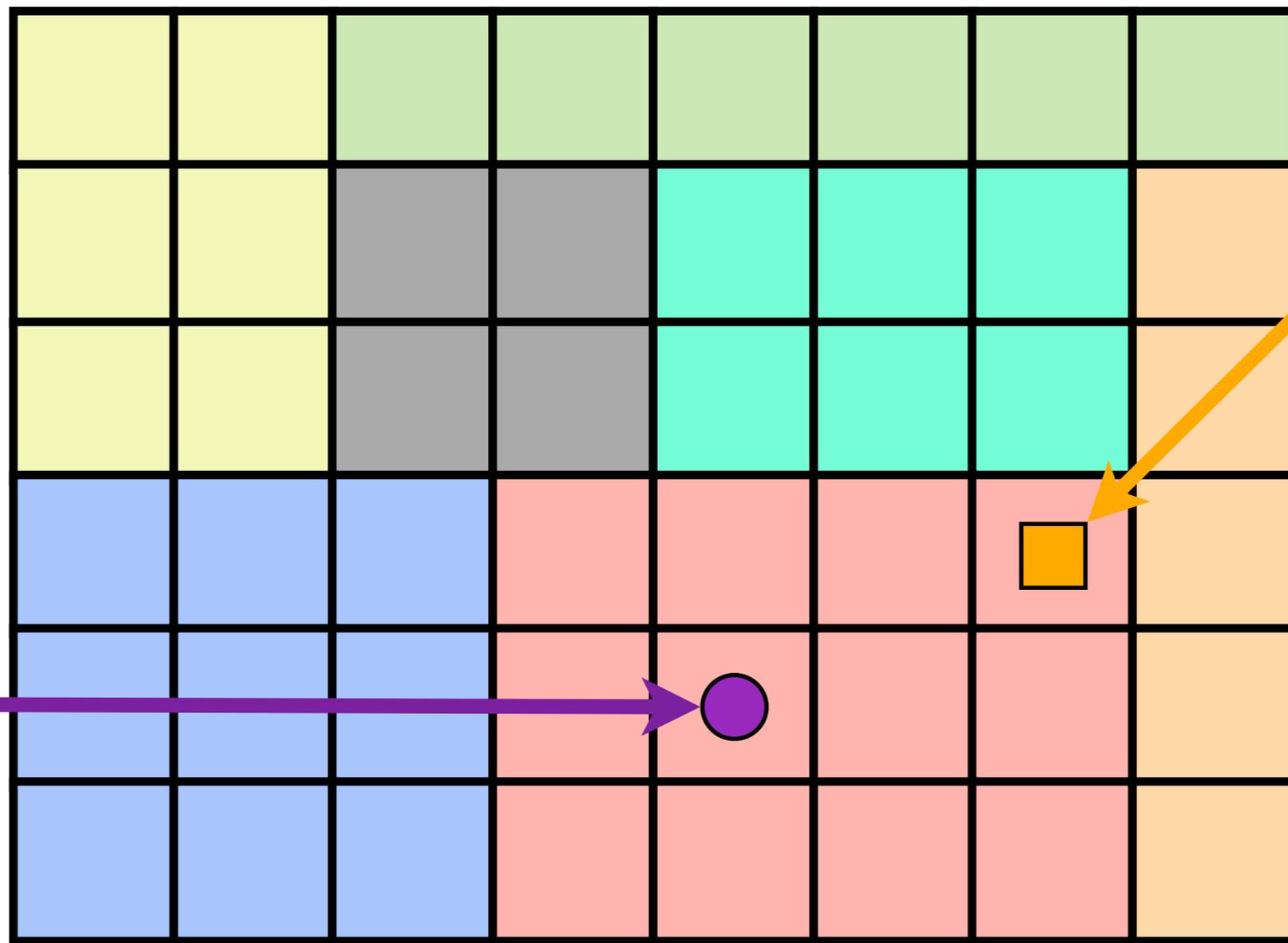
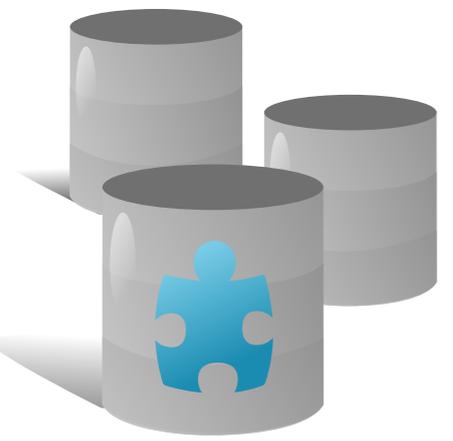


2. unlock

reject!

File Locking (old school)

Case #2: different part of the same file



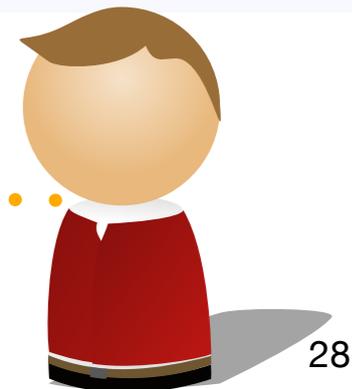
Automatic merge

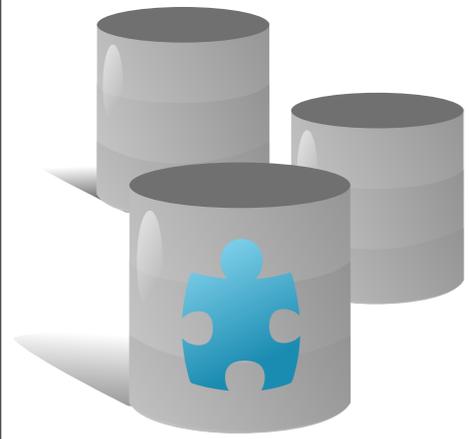


```

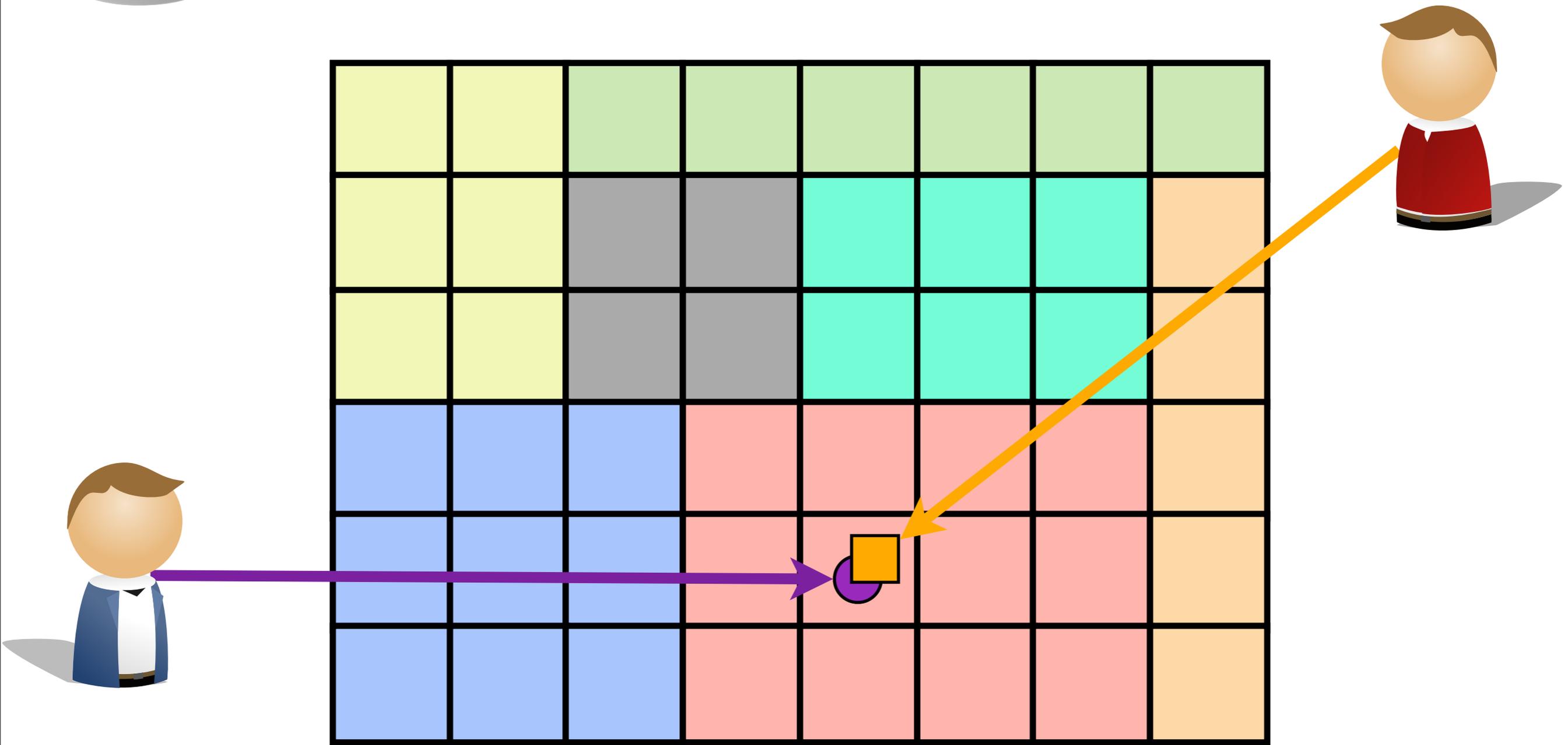
...  ... @@ -45,8 +48,8 @@ class Operation extends TypedElement with MultiplicityElement {
45  48    */
46  49    def `class`: Class = _class
47  50    def class_(c: Class) {
48      -   require(c != null)
49      -   require(c.ownedOperations contains this)
51      +   require(c != null, "`class` attribute cannot be null")
52      +   require(c.ownedOperations contains this, "`class` must contain this operation")
50  53    _class = c
51  54  }
52  55  private[this] var _class: Class = _
...  ... @@ -54,7 +57,7 @@ class Operation extends TypedElement with MultiplicityElement {
54  57  /**
55  58    * <em>"The parameters to the operation."</em>
56  59    */
57      -   def ownedParameters: Seq[Parameter] = _ownedParameters
60      +   def ownedParameters: Seq[Parameter] = _ownedParameters.reverse
58  61  private[this] var _ownedParameters = List[Parameter]()

```



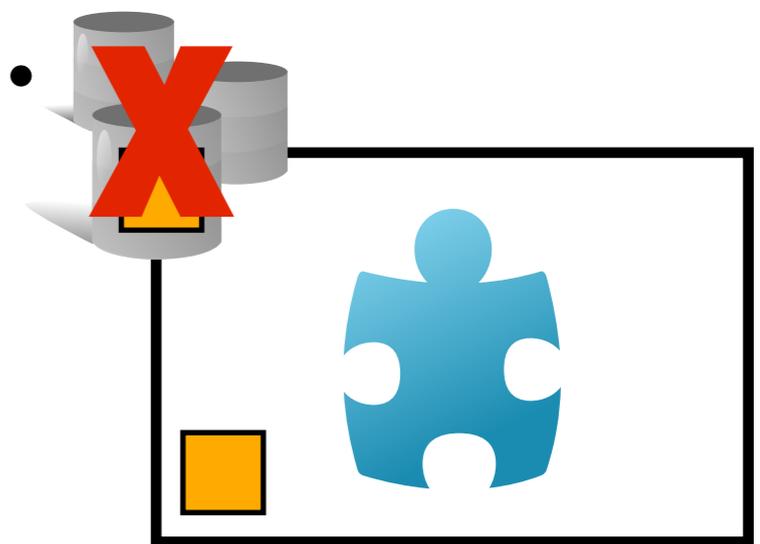
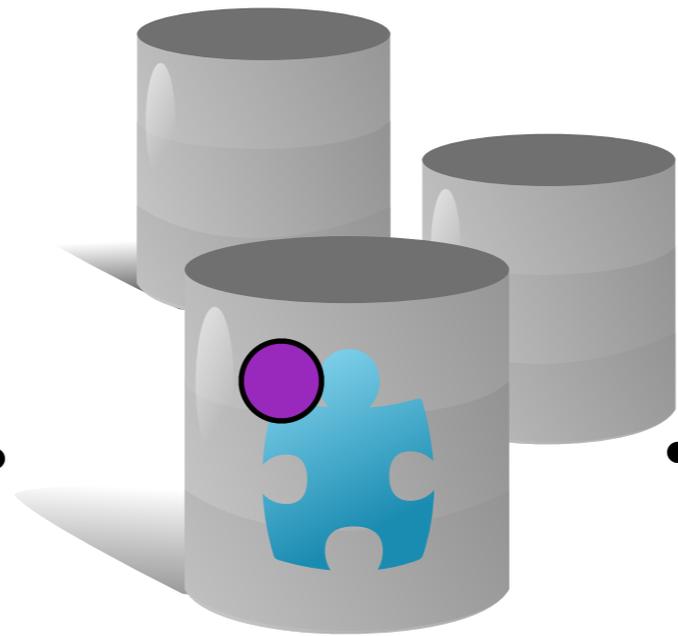
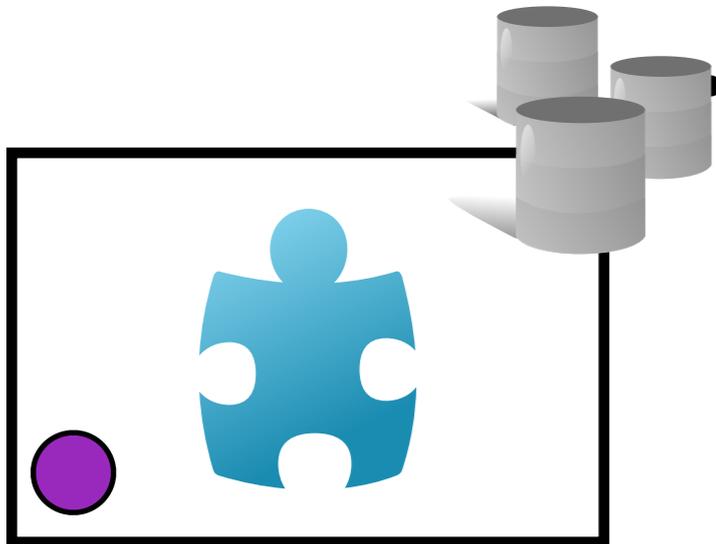


Case #3: **same** part of the **same** file



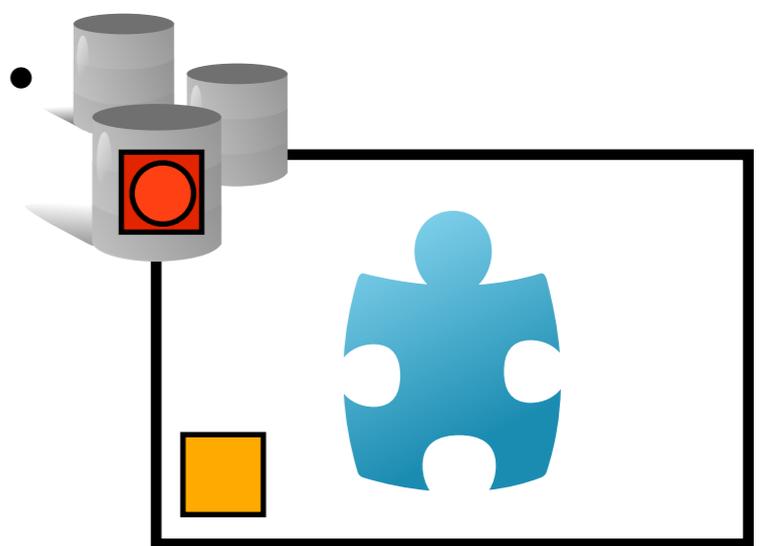
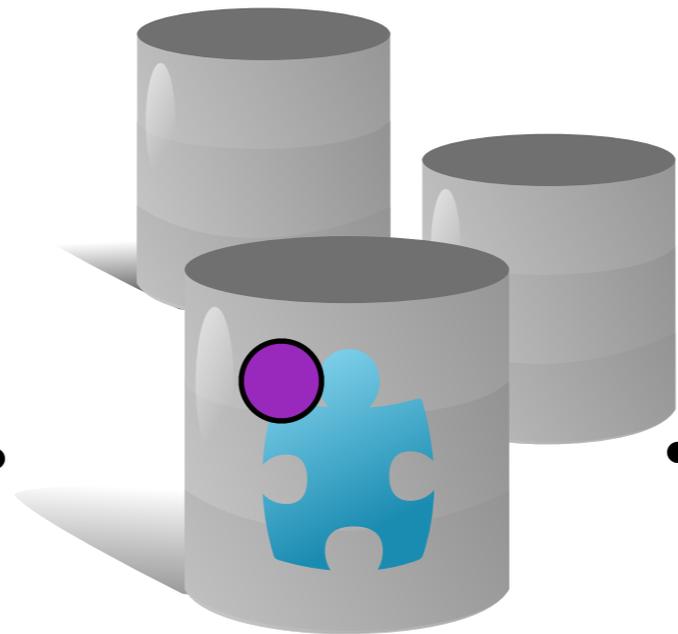
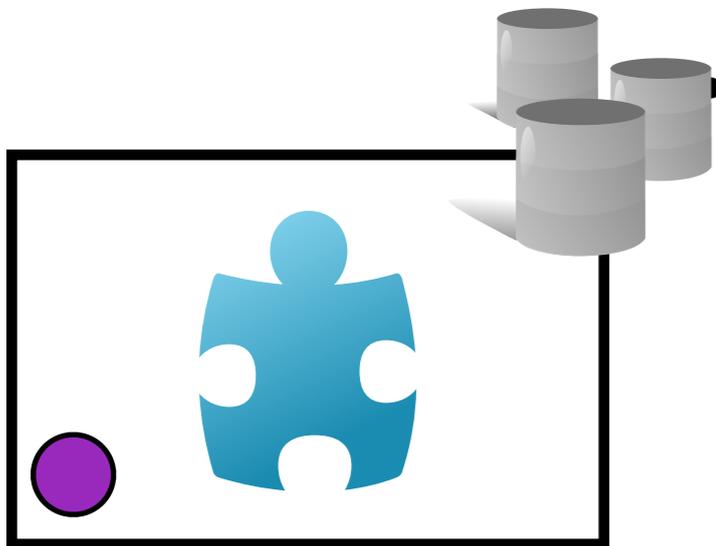
Conflict!

Shared Repository



commit

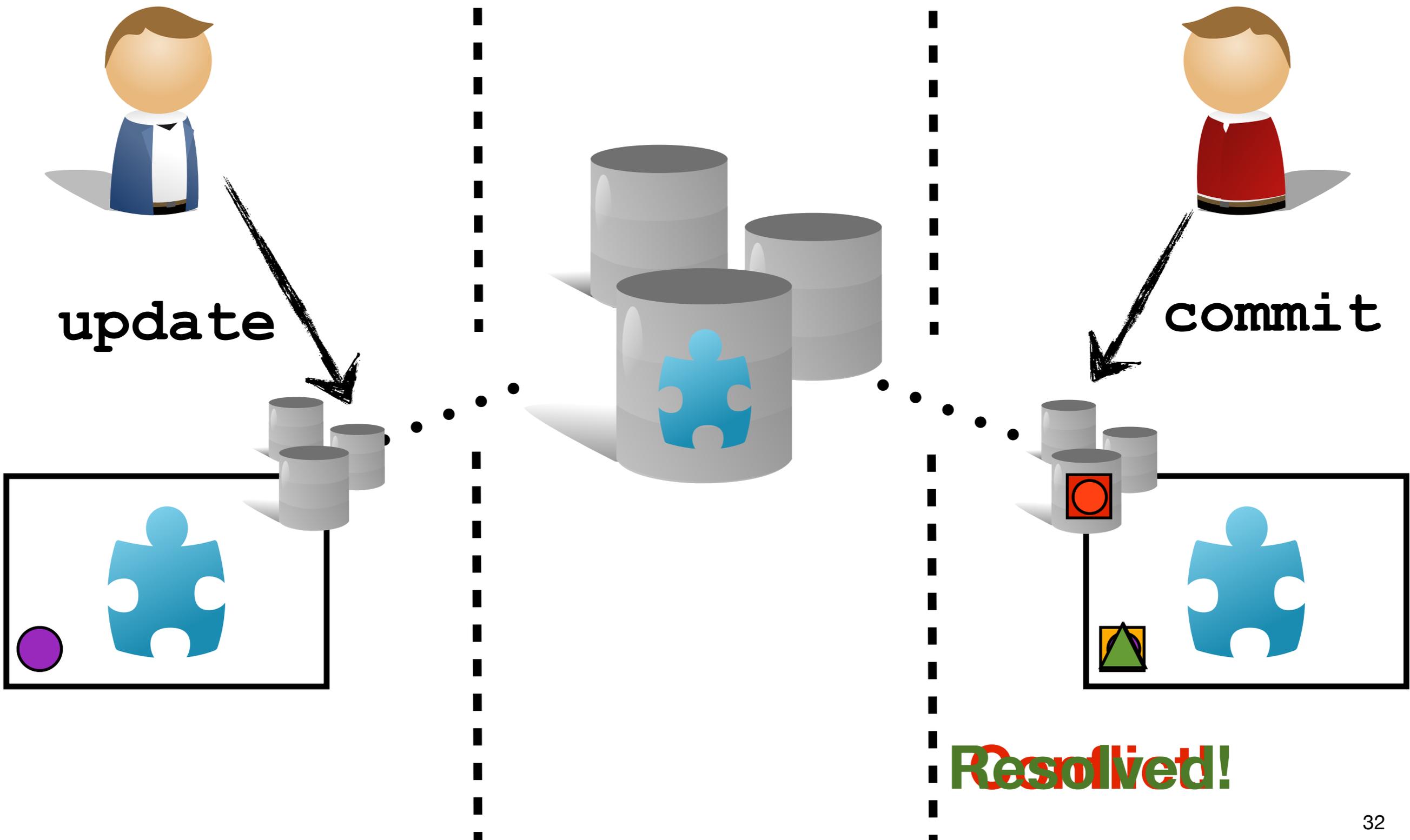
Shared Repository



update

Conflict!

Shared Repository





Attention, ...

Anti-informative Commit Messages



 master ▾

Author	Commit	Message
 [REDACTED]	2285889	Version 22/02/2013
 [REDACTED]	4e06542	Version 21/02/2013
 [REDACTED]	5798097	Version 2 16/02/2013
 [REDACTED]	775f97a	Version 16/02/2013

Commit message = Intention of the version

 master ▾

Author

Commit

Message



[REDACTED]

[6ad5d7a](#)

Correction des warnings



[REDACTED]

[a2bd26c](#)

Correction des erreurs de nom de methode

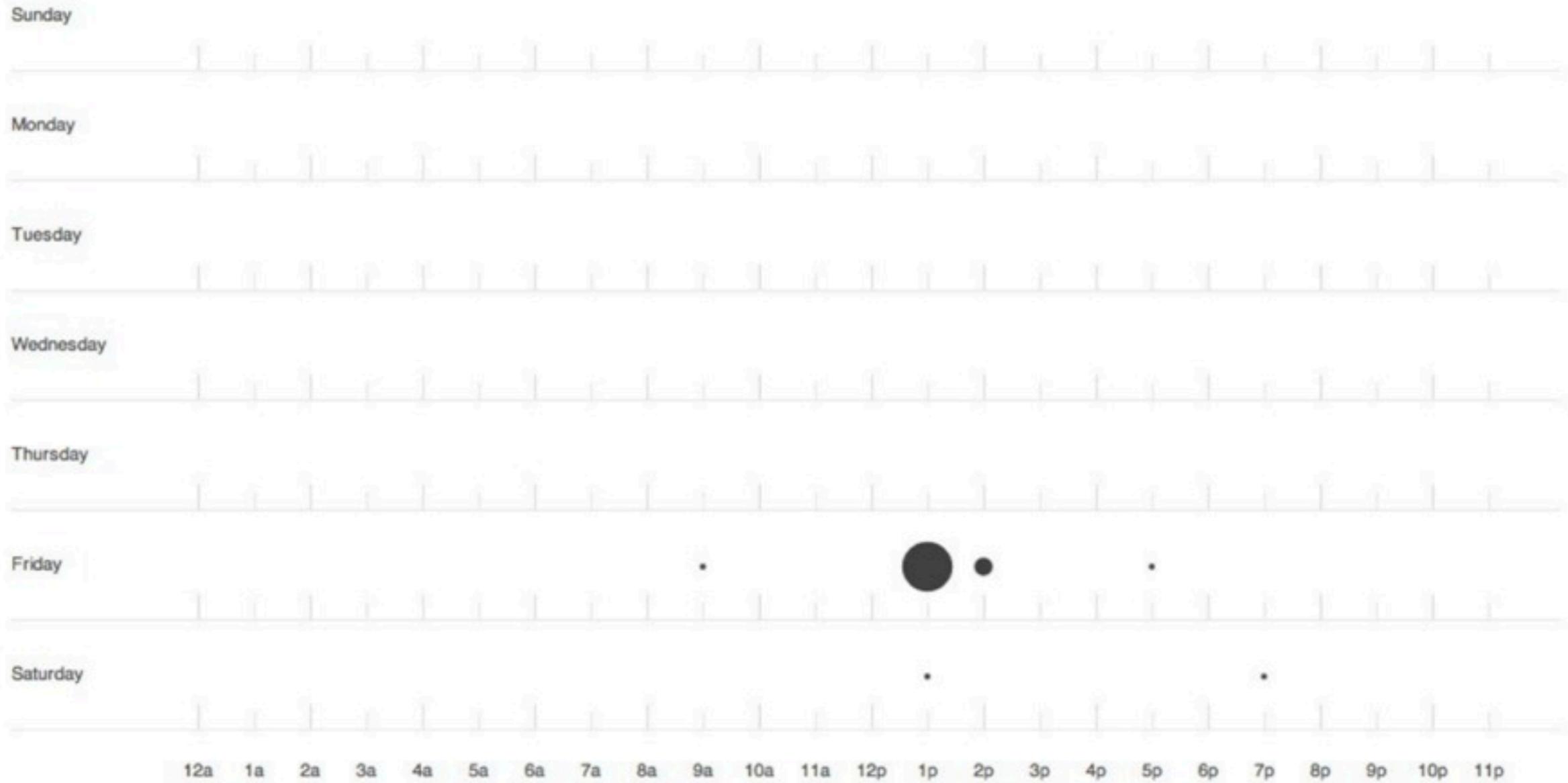


[REDACTED]

[7a3e625](#)

Suppression de fourmilieres.java dans le pack

One-shot activity



Activités dans Redmine aussi...

Activité

Du 23/03/2013 au 21/04/2013

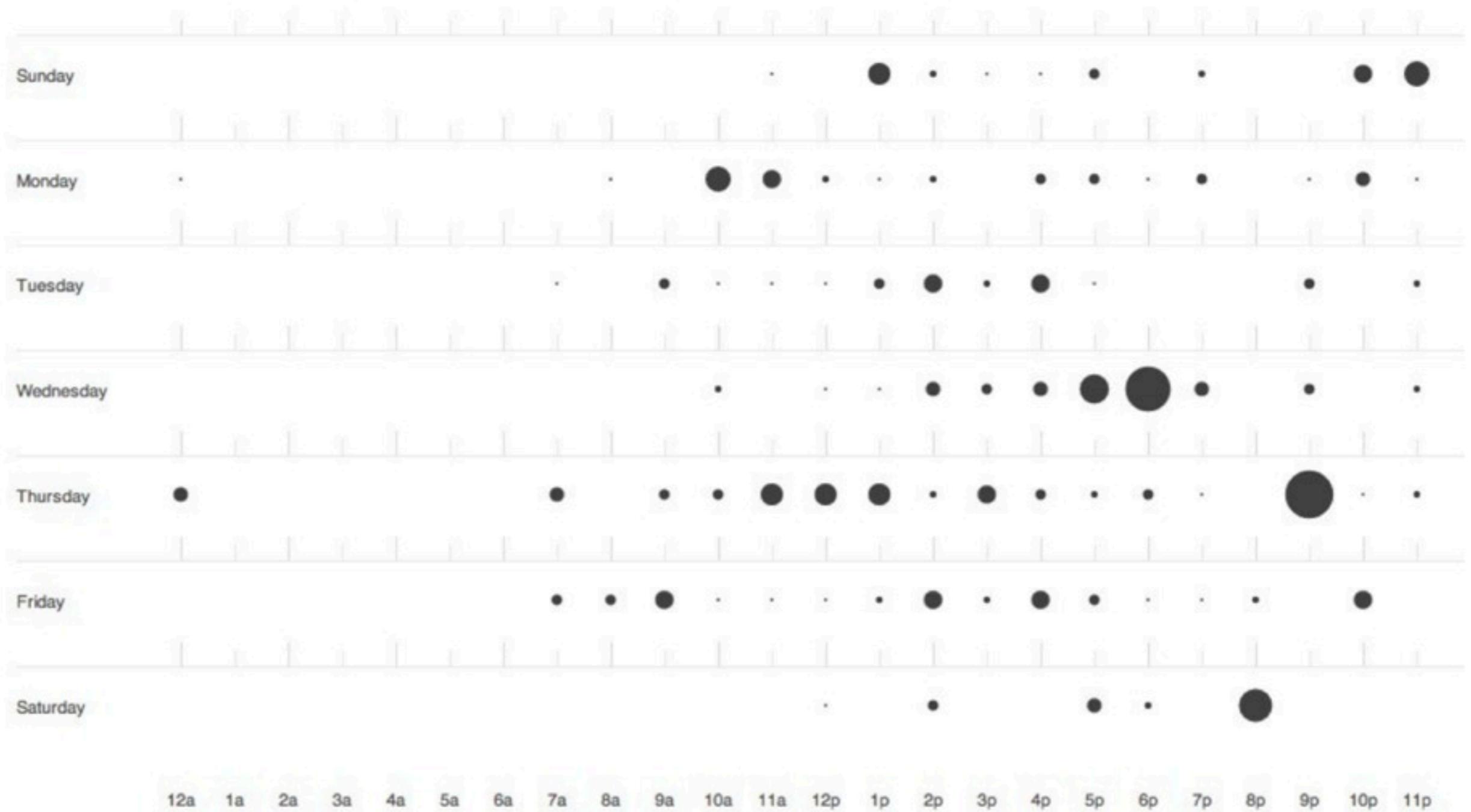
29/03/2013

-  15:02 Document: Code Source Application Protocole Metier Version 1.0
Axel brethes
-  15:02 ProtocolesMetier.rar
Axel brethes

[« Précédent](#)

[Suivant »](#)

Expected: Continuous Development



The Archive Commit

 **master** ▾

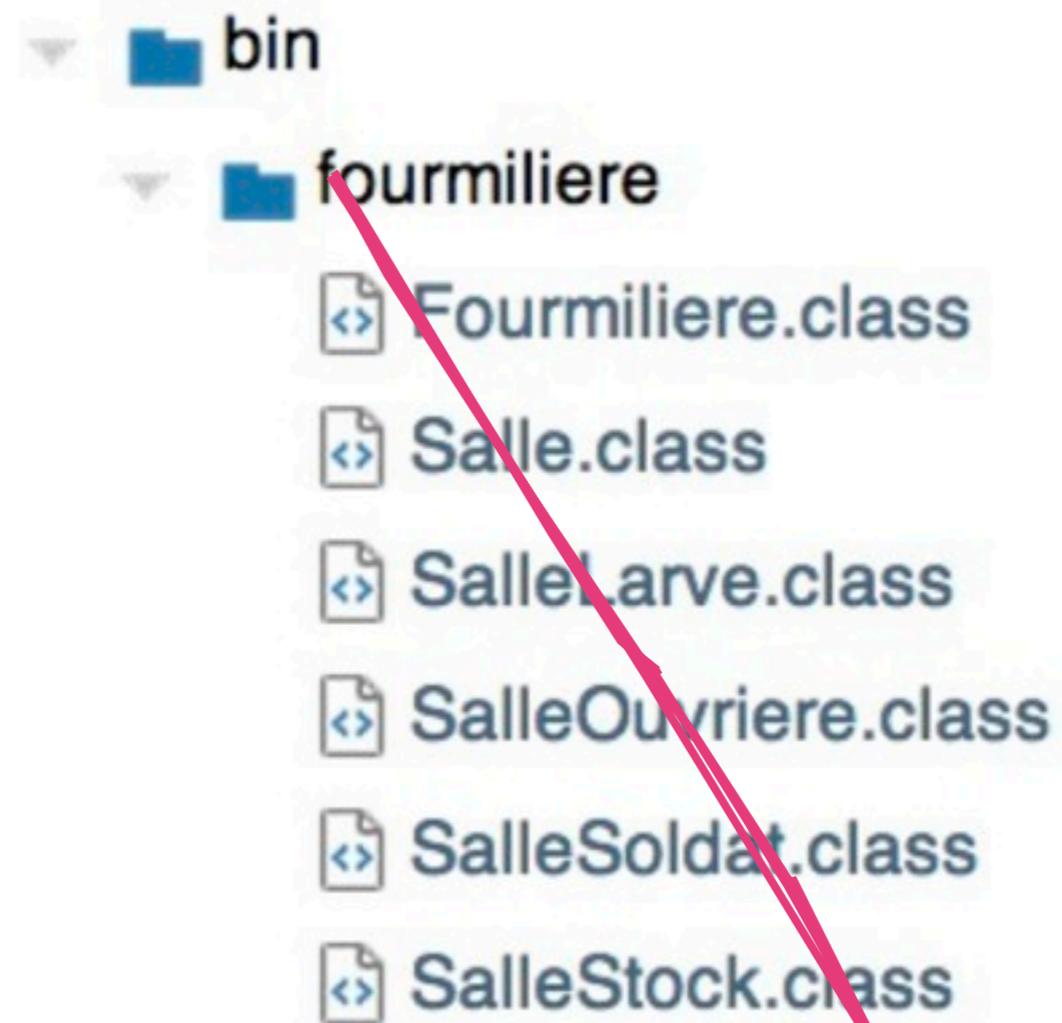
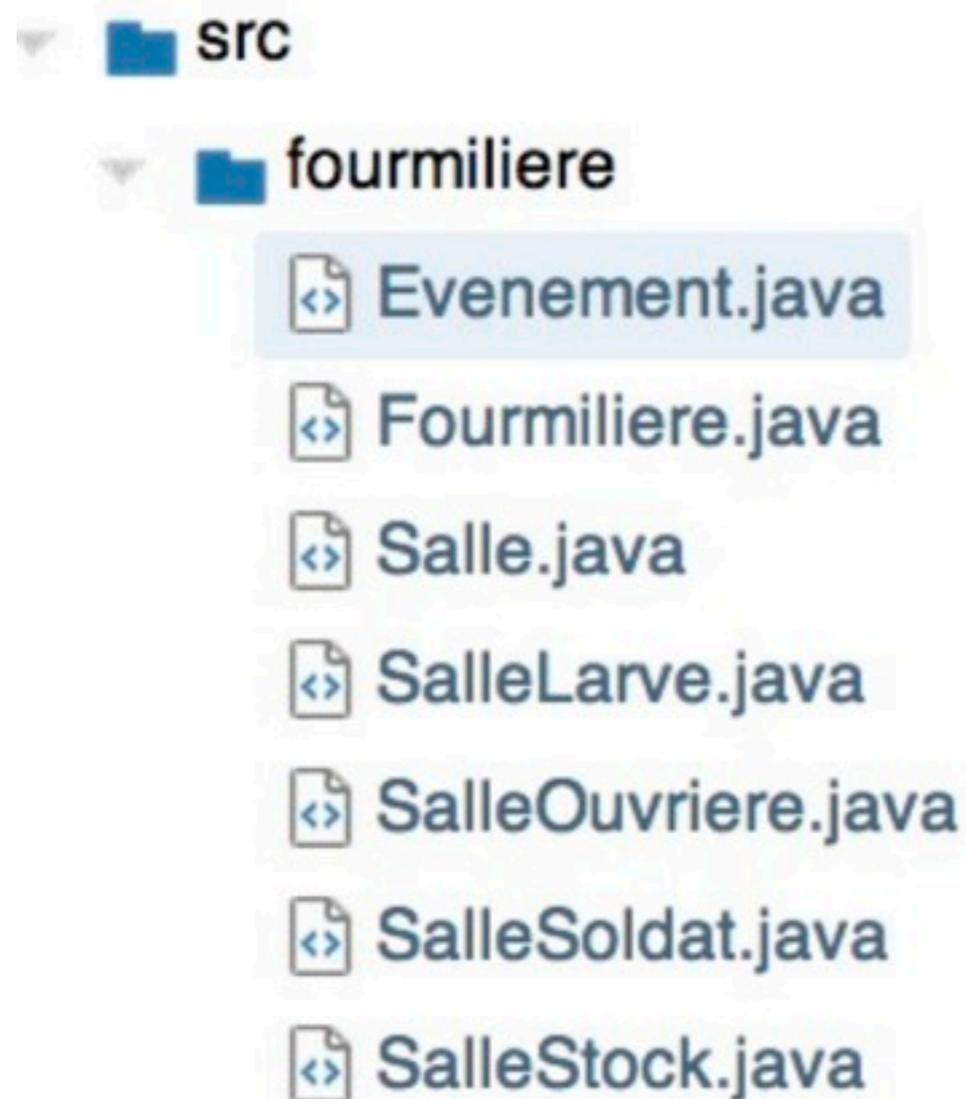
public /

 **Myrmes**  **.zip**

 **test.txt**



Versioned Binary Files



svn propset svn:ignore bin

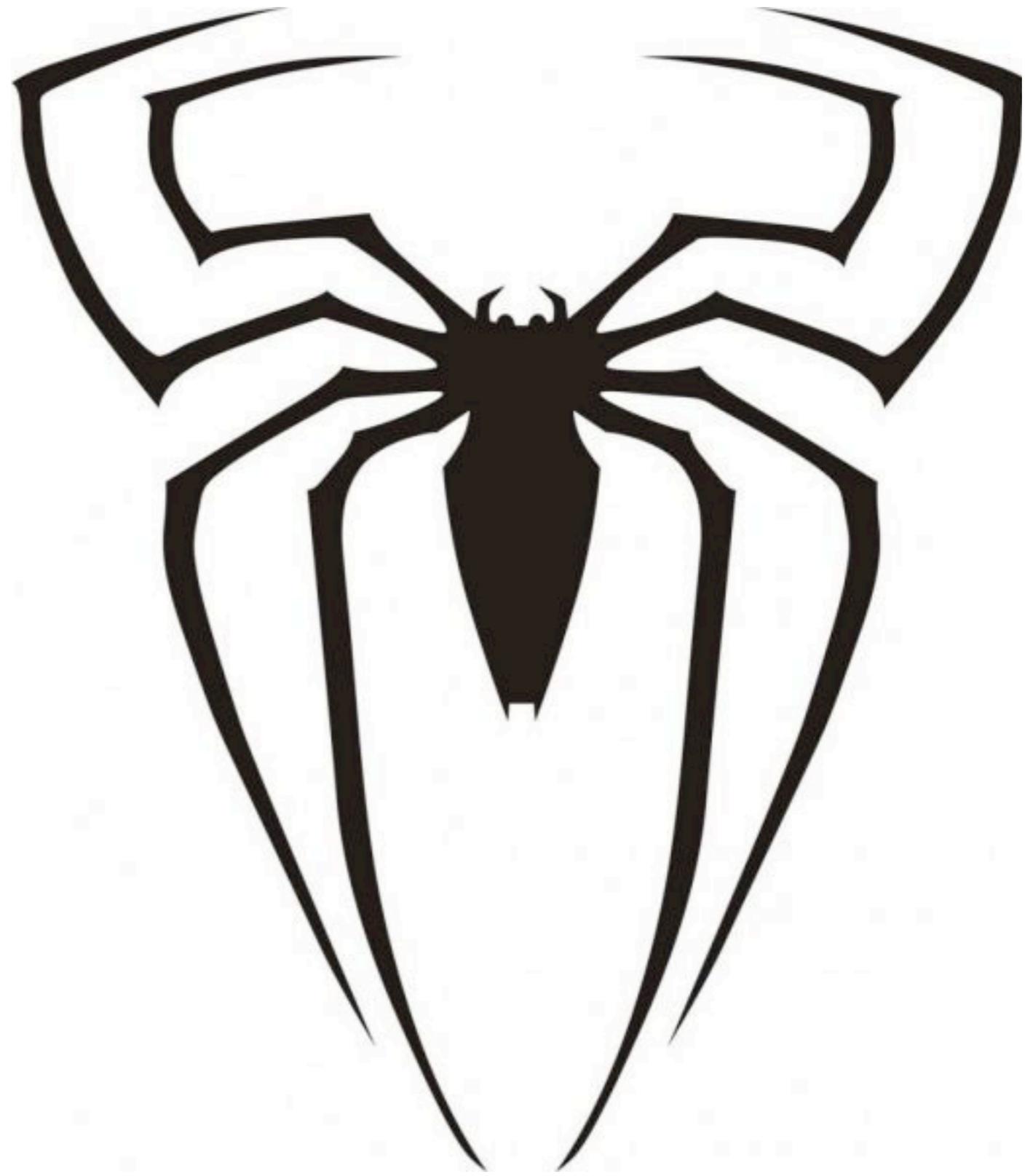
Commits must be related to tickets!

6f09558	TWTWGMM-38 Modification de la salle stock en fonction des ressources	🕒 2 days ago	TWTWGMM-38
336da47	TWTWGMM-40 Creation et implementation de la classe	🕒 2 days ago	TWTWGMM-40
daa568d	TWTWGMM-39 Creation et implementation de la classe	🕒 2 days ago	TWTWGMM-39
7084534	TWTWGMM-25 Modification de methode	🕒 2 days ago	TWTWGMM-25
eab5591	TWTWGMM-26 Modification de l'enum	🕒 2 days ago	TWTWGMM-26
b876abf	TWTWGMM-5 Modification des methodes	🕒 2 days ago	TWTWGMM-5
af70391	TWTWGMM-8 Definition d'un des	🕒 2 days ago	TWTWGMM-8
903a5f5	TWTWGMM-21 Definition d'un soldat	🕒 2 days ago	TWTWGMM-21
d7ca130	TWTWGMM-20 Definition d'une ouvriere	🕒 2 days ago	TWTWGMM-20
84be5fb	TWTWGMM-3 Definition d'une nourrice	🕒 2 days ago	TWTWGMM-3
399e9b0	TWTWGMM-22 Definition d'une larve	🕒 2 days ago	TWTWGMM-22
802fb3c	TWTWGMM-2 Definition d'une fourmi	🕒 2 days ago	TWTWGMM-2

Seriously?

Spiderman's Theorem

«With great power
comes great
responsibility»





\$ STOP

Conclusions

Why do we version code?

To trace changes!

To rollback changes!

To share changes!

Redmine

<http://www.redmine.org>

qq extraits du Cours de **Philippe Collet**, Licence 3 Informatique
2011-2012



□ Besoins généraux

- Collaboration d'une équipe structurée sur un même projet
- Gestion de tâches, features, tickets...
- Gestion de configuration/version/sources
- Plate-forme web collaborative à distance (web)
- Outillage de partage d'information pour le suivi du projet
 - ◆ Wiki
 - ◆ Forum, news

□ Mais aussi

- Customisable aisément
- Multi-projets

☐ Fonctionnalités

- Multi-projets (admin) 
- Contrôle d'accès flexible par rôle 
- Système de tracking (ticket) flexible 
- Calendrier et diagramme de Gantt 
- News, documents attachés, et gestion de fichiers 
- Notifications par flux ou email Wiki (géré par projet) 
- Forums (par projet) 
- Suivi du temps passé 
- Champs customisable pour les tickets, les projets, les utilisateurs... 
- Intégration avec divers gestionnaires de configuration (SVN, CVS, Git, Mercurial, Bazaar, Darcs) 
- Authentification par LDAP multiples 
- ...

Redmine : aperçu

Redmine

Recherche:

[Aperçu](#) [Download](#) [Activité](#) [Roadmap](#) [Demandes](#) [Annonces](#) [Wiki](#) [Forums](#) [Dépôt](#)

Aperçu

Redmine is a flexible project management web application written using Ruby on Rails framework.

Suivi des demandes

- Defect: 351 ouverts sur 1851
- Feature: 1302 ouverts sur 2092
- Patch: 254 ouverts sur 886

[Voir toutes les demandes](#)

Membres

Administrator: Jean-Philippe Lang

Contributor: Azamat Hackimov, Chaoqun Zou, Christian Bradley, Eric Davis, Felix Schäfer, Jean-Baptiste Barth, Jim Mulholland, Karl Heinz Marbaise, Martin Herr, Maxim Krušina, Mischa The Evil, Nicolas Chucho, Paul Rivier, Russell Hind, Thomas Lecavelier

Dernières annonces

Redmine 0.9.3 released (1 commentaire)

Ajouté par Eric Davis il y a 13 jours

Redmine 0.9.2 released (7 commentaires)

Ajouté par Jean-Philippe Lang il y a environ un mois

Redmine 0.9.1 released (10 commentaires)

Ajouté par Jean-Philippe Lang il y a environ un mois

Redmine 0.9 release candidate (19 commentaires)

Ajouté par Jean-Philippe Lang il y a 2 mois

0.9 feature freeze (13 commentaires)

Ajouté par Jean-Philippe Lang il y a 3 mois

[Voir toutes les annonces](#)

[Donate](#)

Redmine : aperçu

Accueil Ma page Projets Aide

dutinfo ACSI 2013

Recherche :

Aperçu Activité Demandes Nouvelle demande Gantt Calendrier Annonces Documents Wiki Fichiers Configuration

Aperçu

[+](#) Nouv

- Sous-projets: Groupe 1 -, Groupe 10 -, Groupe 11 -, Groupe 12 -, Groupe 2 -, Groupe 3 -, Groupe 4 -, Groupe 5 -, Groupe 6 -, Groupe 7 -, Groupe 8 -, Groupe 9 -

Suivi des demandes

- Tâche initiale: 1 ouverte sur 1
- Anomalie: 0 ouverte sur 0
- Evolution: 0 ouverte sur 0
- Assistance: 0 ouverte sur 0
- Tests: 0 ouverte sur 0
- Réunion: 0 ouverte sur 0
- Livrable: 0 ouverte sur 0

[Voir toutes les demandes](#) | [Calendrier](#) | [Gantt](#)

Membres

Manager Plus: Mireille Blay

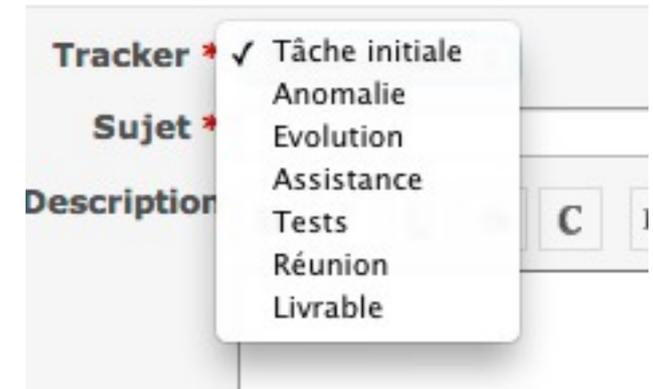
Le ticket à tout faire (demande)

□ Principe

- Utilisé pour tous les éléments de gestion du projets

□ Tickets pour

- Tâches du projet
- Demandes de fonctionnalités (par utilisateur ou autre développeur)
- Rapports de bug
- Problème de support (client)



□ Etats du ticket (par défaut, car customisable)

- New ,
- Assigned , Resolved, Feedback , Closed
- Rejected



Ticket : fonctionnalités avancées

- ❑ Description wiki des tickets
- ❑ Historique de toutes les modifications
- ❑ Tickets liés
- ❑ Commits liés au ticket, fermeture automatique des tickets
 - (mots clefs dans le commentaire de commit)
- ❑ Notification mail (« watch ») ou flux RSS

Livrable #921 Mettre à jour Saisir temps Ne plus surveiller Copier Supprimer

Rendu du projet pour évaluation « Précédent | 1 sur 2 | Suivant »

Ajouté par Mireille Blay il y a 1 minute.

Statut:	Nouveau	Début:	18/09/2013
Priorité:	Normal	Echéance:	28/10/2013
Assigné à:	-	% réalisé:	<div style="width: 0%;"></div> 0%
Catégorie:	-	Temps passé:	-
Version cible:	-	Temps estimé:	30.00 heures

Description Citer

Voir la description précise de ce qui est attendu sur le wiki du cours

Demandes liées Ajouter

Mettre à jour Mettre à jour Saisir temps Ne plus surveiller Copier Supprimer

Ticket : exemple complet

Overview Download Activity Roadmap Issues **New issue** News Wiki Forums Repository

Defect #663 Update Watch Copy

homepage link in project settings is too short

Added by Stuart George [128 days](#) ago. Updated 22 days ago.

Status :	Closed	Start :	2008-02-14
Priority :	Low	Due date :	
Assigned to :	-	% Done :	<input type="text"/> 0%
Category :	Projects	Resolution :	Fixed
Target version :	0.8		
Affected version :	devel		

Description Comment

When setting a url for a project, it seems to be very short

I had a url that was 69 characters and was too long. I would suggest bumping it to 128 or something.

Related issues

duplicated by Defect #1095	Homepage length limit for Projects	Closed	2008-04-23
----------------------------	------------------------------------	--------	------------

History

2008-05-25 15:35 - Jean-Philippe Lang #1

- **Status** changed from *New* to *Closed*
- **Target version** set to *0.7.2*
- **Resolution** set to *Fixed*

Fixed in [r1457](#) (migration required). Limit is now 255 chars. Comment

2008-05-29 19:59 - Jean-Philippe Lang #2

- **Target version** changed from *0.7.2* to *0.8*

Associated revisions

Revision 1457
Added by jplang [26 days](#) ago

Change projects homepage limit to 255 chars ([#663](#), [#1095](#)).

Also available in: [Atom](#) | [PDF](#)

Gantt

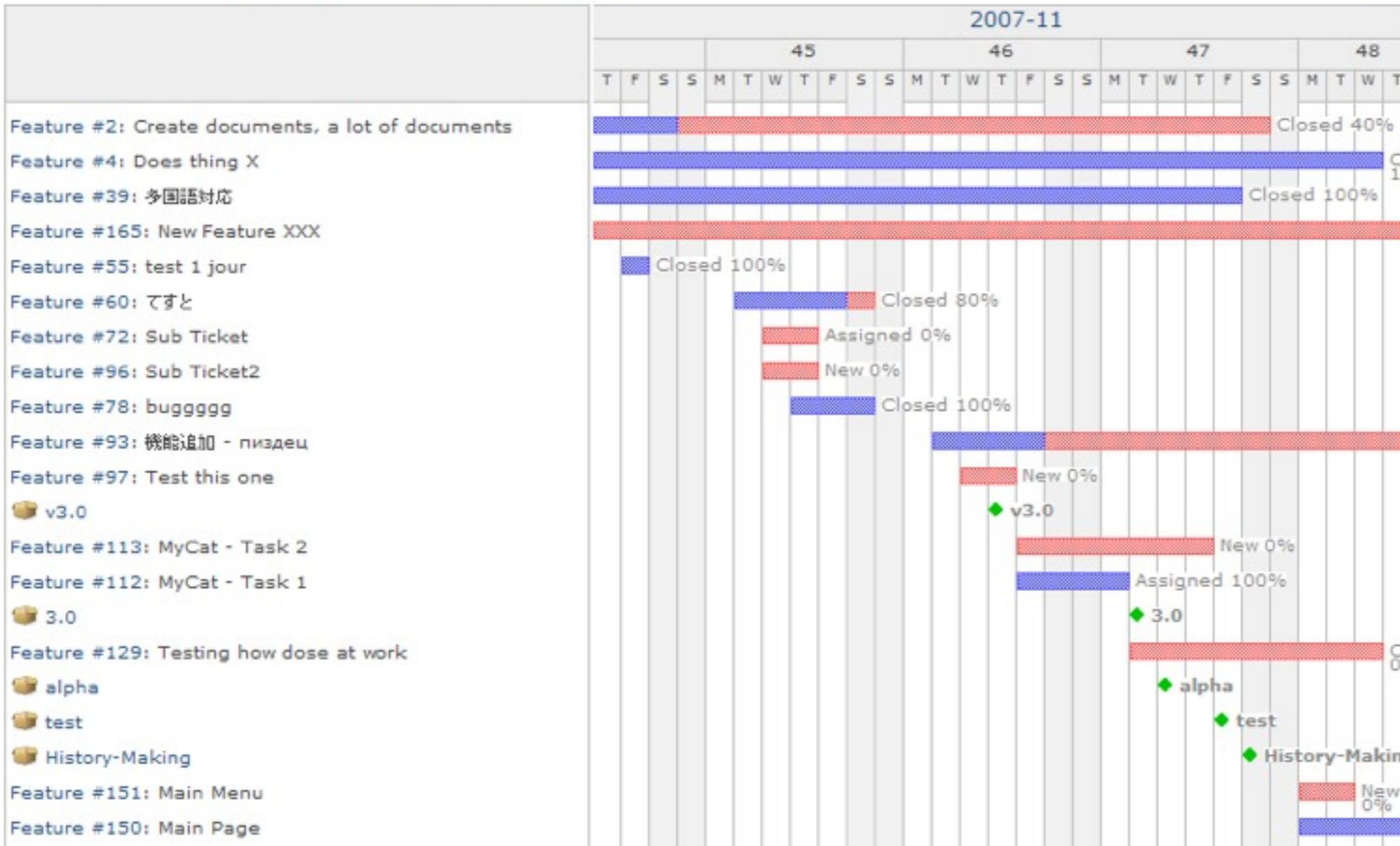
Sandbox

Search: Jump to a project..

- Overview
- Activity
- Roadmap
- Issues
- News
- Documents
- Wiki
- Forums
- Files
- Repository
- Settings

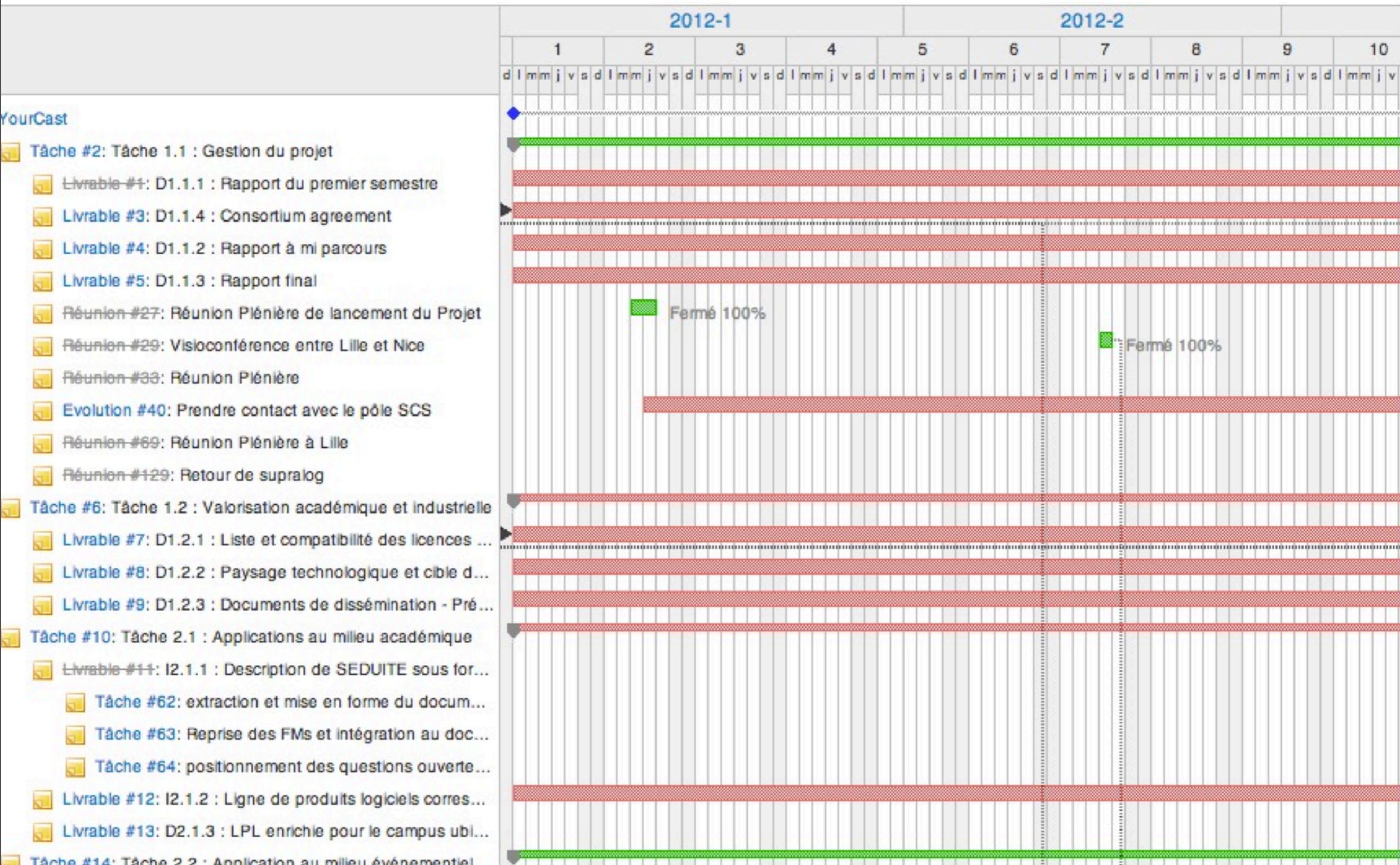
Gantt

1 months from November 2007



Gantt

- Bug
- Feature
- Support
- Marketing



- wiki
 - Système de gestion de contenu de site web rendant ses pages web librement modifiables par tous les visiteurs y étant autorisés
 - Facilite l'écriture collaborative de documents avec un minimum de contraintes

- Assimilé à un système de gestion de contenu
 - *à la web2.0* : liberté d'édition, même droit pour tous

- Fonctionnalités
 - Identification
 - Edition, facile et collaborative
 - Liens et création de pages
 - Suivi de modifications

Download



Text formatting: [Help](#)

```
h1. Download

h2. Latest stable release: 0.6.3 (2007-12-18)

Redmine releases can be found at "RubyForge":http://rubyforge.org/frs/?group_id=1850. See the [[Changelog]] for
details.

h2. Latest source code

You can get the latest source code of Redmine from the Subversion repository hosted at Rubyforge. The repository URL
is:

http://redmine.rubyforge.org/svn
```

Comment

Preview

Download

Latest stable release: 0.6.3 (2007-12-18)

Redmine releases can be found at [RubyForge](#). See the [Changelog](#) for details.

Latest source code

Navigation dans un référentiel

Home My page Projects Administration Help

Logged as jplang - My account Sign out

Redmine

Search: Jump to a project..

Overview Download Activity News Wiki Repository Settings

root / trunk / config / environment.rb

```
1 4 jplang # Be sure to restart your web server when you modify this file.
2 4 jplang
3 4 jplang # Uncomment below to force Rails into production mode when
4 4 jplang # you don't control web/app server and can't set it the proper way
5 772 jplang # ENV['RAILS_ENV'] ||= 'production'
6 4 jplang
7 4 jplang # Bootstrap the Rails environment, frameworks, and default configuration
8 4 jplang require File.join(File.dirname(__FILE__), 'boot')
9 4 jplang
10 4 jplang Rails::Initializer.run do |config|
11 4 jplang   # Settings in config/environments/* take precedence those specified here
12 4 jplang
13 4 jplang   # Skip frameworks you're not going to use
14 4 jplang   # config.frameworks -= [ :action_web_service, :action_mailer ]
15 4 jplang
16 515 jplang   # Add additional load paths for sweepers
17 515 jplang   config.load_paths += %W( #{RAILS_ROOT}/app/sweepers )
18 4 jplang
19 4 jplang   # Force all environments to use the same logger level
20 4 jplang   # (by default production uses :info, the others :debug)
21 4 jplang   # config.log_level = :debug
22 4 jplang
23 4 jplang   # Use the database for sessions instead of the file system
24 4 jplang   # (create the session table with 'rake create_sessions_table')
25 4 jplang   # config.action_controller.session_store = :active_record_store
26 975 jplang   config.action_controller.session_store = :PStore
27 4 jplang
```

Diff intégré

Home My page Projects Administration Help

Logged as jplang - My account Sign out

Redmine

Search:

Jump to a project..

Overview Download Activity News Wiki Repository Settings

Revision 1022:

View differences

inline

trunk/app/views/layouts/base.rhtml (revision 1022)

@1022	@1021
	1
	1 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN" "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
1	1 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
2	2 <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en">
3	3 <head>
4	4 <title><%=h html_title %></title>
73	73 <div id="ajax-indicator" style="display:none;"><%= l(:label_loading) %></div>
74	74
75	75 <div id="footer">
	76 Powered by <%= link_to Redmine::Info.app_name, Redmine::Info.url %> <%= Redmine::VERSION %> © 2006-2007 Jean-Philippe Lang
76	76 Powered by <%= link_to Redmine::Info.app_name, Redmine::Info.url %> <%= Redmine::VERSION %> © 2006-2007 Jean-Philippe Lang
77	77 </div>
78	78 </body>

trunk/app/views/layouts/_project_selector.rhtml (revision 1022)

@1022	@1021
1	1 <%= user_projects_by_root = User.current.projects.find(:all, :include => :parent).group_by(&:root) %>
2	2 <select onchange="if (this.value != '') { window.location = this.value; }">
	3 <option selected><%= l(:label_jump_to_a_project) %></option>
	4 <option disabled>---</option>
3	3 <option selected="selected"><%= l(:label_jump_to_a_project) %></option>
4	4 <option disabled="disabled">---</option>
5	5 <%= user_projects_by_root.keys.sort.each do root %>

Ma page (customisable)

Ma page Personnaliser cette page

Calendrier

	Lundi	Mardi	Mercredi	Jeudi	Vendredi	Samedi	Dimanche
	7	8	9	10	11	12	13
15	<ul style="list-style-type: none">Sfer - Assistance #3: Install ANTSfer - Assistance #2: Install redmine as a service		<ul style="list-style-type: none">Sfer - Assistance #2: Install redmine as a service <p>Début: 07/04/2008 Date d'échéance: 09/04/2008 Assigné à: Guillaume Tardif Priorité: Normal</p>				

Temps passé (les 7 derniers jours)

Total: 0.50

Activité	Projet	Commentaire	Heures
Aujourd'Hui			
Conception	Sfer - Assistance #3		0.50  

Demandes soumises

#	Tracker	Sujet
3	Sfer - Assistance Fermé - 07/04/2008 16:25	Install ANT
2	Sfer - Assistance Nouveau - 07/04/2008 10:29	Install redmine as a service

[Voir toutes les demandes](#)

Demandes surveillées

Aucune donnée à afficher

Demandes qui me sont assignées

#	Tracker	Sujet
2	Sfer - Assistance Nouveau - 07/04/2008 10:29	Install redmine as a service

[Voir toutes les demandes](#)

Dernières annonces

Ma page (customisable)

Ma page

Personnalise

Demandes soumises (31)

#	Projet	Tracker	Sujet
921	dutinfo ACSI 2013	Livrable	Rendu du projet pour évaluation (Nouveau)
903	dutinfo S2S3S4D MBF 2012	Livrable	Soutenance finale de projet (Nouveau)
806	dutinfo S3S4 MBF 2012	Anomalie	Recommandations apres analyse des codes (Nouveau)
375	dutinfo S2S3S4D MBF 2012	Tâche initiale	Mettre à jour le wiki (Résolu)
373	dutinfo S2S3S4D MBF 2012	Réunion	Rencontre avec Sébastien Mosser (Résolu)
374	dutinfo S2S3S4D MBF 2012	Réunion	Points sur les avancés réalisées dans la semaine (Résolu)
407	dutinfo S2S3S4D MBF 2012	Evolution	regarder la bibliothèque exhibit (Nouveau)
361	LP MBF 2012	Livrable	Analyse/conception des Business Process (Nouveau)
325	dutinfo S3S4 MBF 2012	Réunion	Points sur les avancés dans la semaine (Résolu)
372	dutinfo S3S4 MBF 2012	Tâche initiale	Mettre à jour le wiki (Nouveau)

[Voir toutes les demandes](#)

Calendrier

	lundi	mardi	mercredi	jeudi	vendredi	samedi	dimanche
38	16	17	18	19	20	21	
			<ul style="list-style-type: none">dutinfo S2S3S4D MBF 2012 - Evolution #909: Icon google mapsdutinfo ACSI 2013 - Livrable #921: Rendu du projet pour évalua...				