Subversion

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Subversion

Open Source Version Control System

- a central place to store your code

- all committed versions are maintained and accessible forever
  $\rightarrow$ easy to check out prior code, undo and track changes

- facilitates collaboration

  - *different* people may edit all repository documents on
  - *different* computers and places.

  Subversion keeps track of all changes and the people who have committed them.

Benefits

- solves the problem of importing/exporting Java projects, working at home, on different computers, etc.

- you can undo changes any time

- many people may work on the same program (changes made to the same document by different users can be merged)
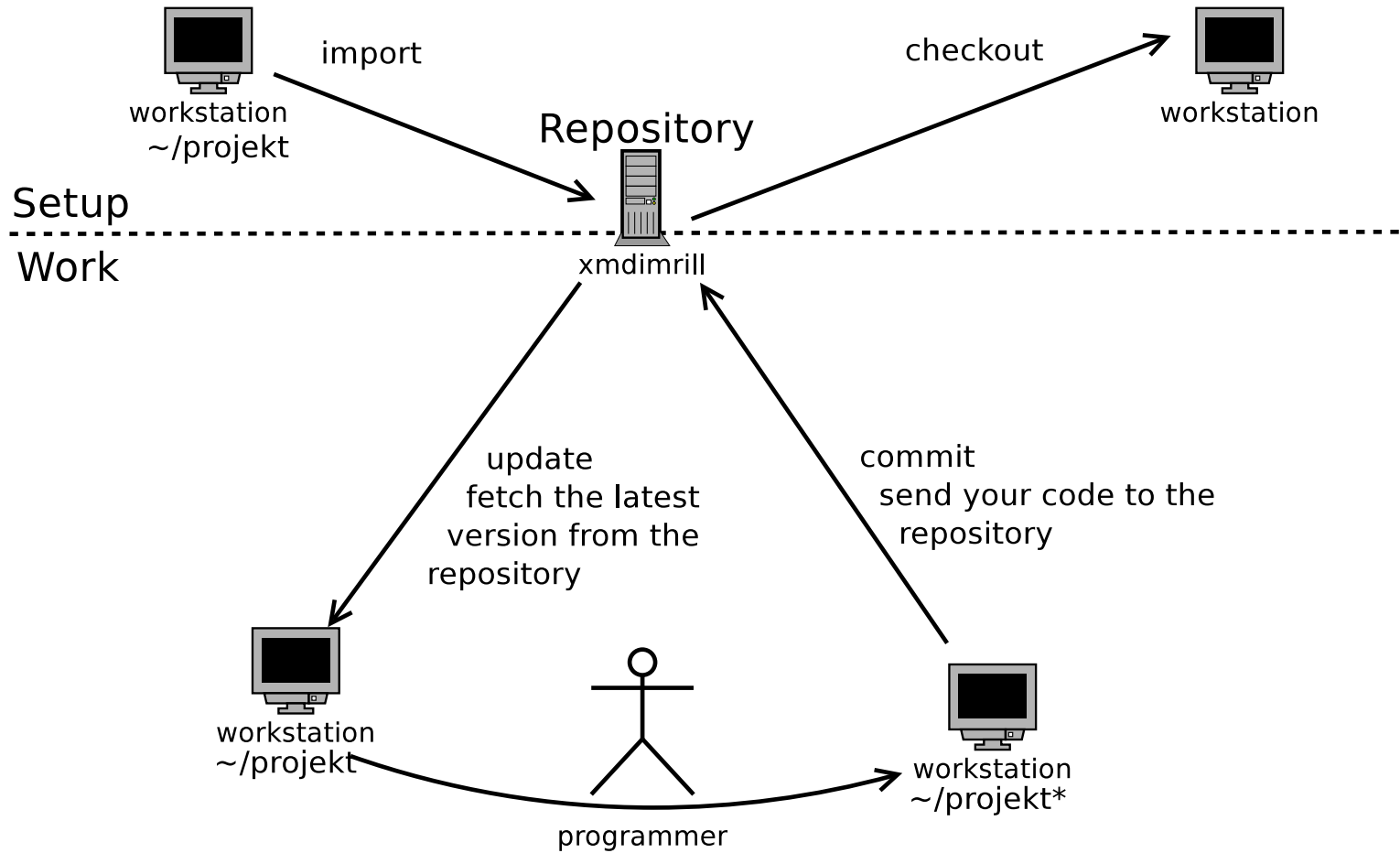
- all changes are recorded

Requirements

- You need to install the Subversive plug-in to enable subversion in eclipse.

- Checkout your project from the Subversion repository:

- `File -> New -> SVN`
  `→Project from SVN`

- `Create a new repository location.`

  ```
  URL : http://xmdimrill.ai.wu.ac.at/svn/projects/java
  User: j1050128@AI.WU-WIEN.AC.AT
  Pwd : ******
  ```

- **Folder:** `Moelltal`

Working with SVN

- all SVN related function are in the `Team` section of the context menu

- *always* do a `Team -> update` before starting with your edits

- edit your files as usual (changed files will be indicated accordingly)

- commit your changes using `Team -> commit`

Subversion Workflow

Eclipse - Resolve conflicts

What are conflicts?

Different incompatible changes to the same file which cannot be resolved automatically

How to resolve a conflict?

Select the affected file and perform the following steps:

1. `Team -> Resolve conflict`
   Compare the two versions and apply corrections if necessary.

2. `Team -> Mark resolved`
   Indicate that the conflict in that file has been resolved.

3. `Team -> Commit` - Commit your changes.