Crystal: Proactive Collaboration Conflict Detector

www.cs.washington.edu/homes/brun/research/crystal

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	master	Paul	Ringo	John	
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	master	Jeff	Roy	Bob	Tom
Handle with Care			Î	1	

Steps for installation (for CSE 403 students):

- 1. Crystal only works with mercurial, so if you want to use Crystal, you'll need to use mercurial for version control.
- 2. Each member of the team needs to get a dropbox account. <u>http://www.dropbox.com</u>
- 3. One member needs to create a folder for the project and share it, via dropbox, with the whole team.
- 4. Each team member needs to create a personal subfolder in the project folder. Also, there needs to be a single folder for the master repository. So the directory structure might look like this:



Don't do this by hand, but rather use mercurial to do this. First, clone the master repository into the "master" folder:

cd 403Project

hg clone path_to_repo master

Then, make the individual clones:

cd 403Project

hg clone master Alice

5. Download Crystal: http://www.cs.washington.edu/homes/brun/research/crystal/crystal.jar

6. Double click the .jar or run it from the command line via java –jar crystal.jar

(The command line version will print informative error messages if something goes wrong.)

- 7. Crystal will open with a bunch of X icons. It needs to be set up!
- 8. Select the File->Edit Configuration menu and fill out the dialog with your project information. Example:

Crystal Configuration Editor							
Closing this window will save the configuraion settings.							
Path to scratch space: C:/temp/conflictClient/							
Add New Project							
403Project							
Project Name: 403Project							
Parent Name (optional): MASTER							
Repo Type: HG 🔹							
Clone Address: C:/Users/Yuriy/403Project/Yuriy							
Add New Repository							
Short Name Hide? Parent Clone Address							
MASTER MASTER C:/Users/Yuriy/403Project/master Delete							
Alice Alice MASTER C:/Users/Yuriy/403Project/Alice Delete							
Bob MASTER C:/Users/Yuriy/403Project/Bob Delete							
Eve MASTER C:/Users/Yuriy/403Project/Eve Delete							
Delete This Project							

9. Quit and restart crystal. It should look like this:



- 10. Work in the individual folders (set up your IDE to use them) and Crystal will warn you as soon as you might be creating a conflict.
- 11. Report bugs and feature requests to Yuriy Brun <u>brun@cs.washington.edu</u>. Check back for new releases!