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Basic SVN Commands

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SVN Background





- ▶ What is SVN?
 - Version control software
 - Similar to Github, Dropbox, Bitbucket but with a few differences
- ▶ First need to install a subversion client
 - Windows: TortoiseSVN https://tortoisesvn.net/
 - ② Ubuntu: RabbitVCS http://rabbitvcs.org/
 - Can install with the following terminal commands sudo add-apt-repository ppa:rabbitvcs/ppa sudo apt-get update sudo apt-get install rabbitvcs-nautilus3 sudo apt-get install rabbitvcs-gedit sudo apt-get install rabbitvcs-cli
- ▶ Then you need your username and password for our repos

Pulling from the Repo





- ▶ We have two repositories
 - Intra-lab (primary) repo: svn://hohmann.mit.edu/acl
 - Inter-lab repo: svn://hohmann.mit.edu/acl_collab
- If there isn't one already, add your own folder to the repo
 - Example: svn://hohmann.mit.edu/acl/JackQ
- ▶ To pull from existing folders you can use "checkout" or "export"
 - "Checkout" will download the folder onto your computer AND maintain a link to the folder stored on the SVN server
 - Allows you to push new or modified material back to the SVN server and update your computer's copy of the folder if someone else changes it
 - "Export" will only download the folder onto your computer
 - It's a one-time download of the folder, no pushing or updates

Pulling from the Repo





- ▶ Once you have checkout a folder, you can update your local copy using the "Update" command
 - This will download any changes you or anyone else had uploaded to the SVN server onto your local copy of the material
- ▶ Sometimes you might want to reverse changes you made to the local (your computer's) copy of the fiile(s)
 - Use the "Revert" command to reverse any local changes you made and revert the file(s) back to the copy on the SVN server
- If you accidentally made changes to an outdated local copy and want to incorporate them into the more-up-to-date SVN copy, it's a little trickier
 - Google "resolve conflicts SVN" and look at the particular issue you're having

Pushing to the Repo





- ▶ Once you're ready to add new file(s) or folders to the SVN server, it's a two-step process
- First, need to use the "add" command on each file/folder you want to add
 - When "adding" a folder, be careful because it will also select all files/folders within the folder - make sure you deselect those you don't want added to the SVN server
- ② Once you "added" the file or folder, use the "commit" command to actually add the file/folder to the SVN server
 - You can also add a comment in the commit detailing what is being added and why

Removing from the Repo





- ▶ If you want to remove files from the repository, there are two ways of doing so
- "Unversion" the file
 - Remove the file from the repository, but does NOT delete your local copy
- ② "Delete" the file note it's "SVN → delete" not just the normal Windows/Ubuntu delete
 - Removes the file from the repository, but will also delete your local copy
- ▶ You will also need to "commit" these commands before they take effect
- ▶ Before it's committed, you can undo a deletion with "Revert"

Graphical Icons





