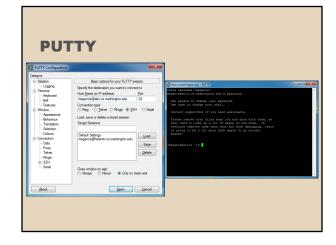
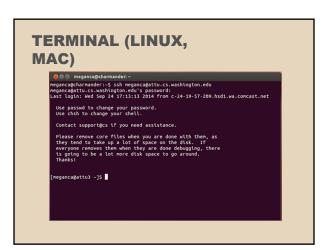
SECTION 2: HW3 Setup cse331-staff@cs.washington.edu slides borrowed and adapted from Alex Mariakis and CSE 390a

DEVELOPER TOOLS Remote access Eclipse and Java versions Version Control







ECLIPSE and Java

.java files

- Human readable 'code' file



.class files

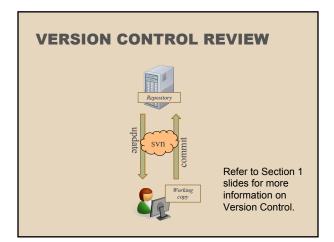
 Compiled version of .java files. Typically represented as Byte code to run on the Java Virtual Machine (JVM)

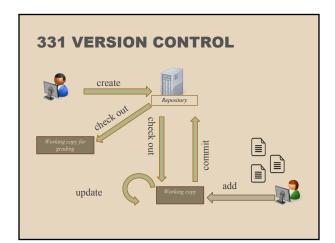


.jar files

 Packaged aggregate of .class files and metadata







VERSION CONTROL: COMMAND-LINE command description svn co *repo* check out commit / check in changed files svn ci [files] svn add *files* schedule files to be added at next commit svn help [command] get help info about a particular command svn merge source1 source2 merge changes svn revert *files* restore local copy to repo's version svn resolve files resolve merging conflicts svn update [files] update local copy to latest version others: blame, changelist, cleanup, diff, export, ls/mv/rm/mkdir, lock/unlock, log, propset

THIS QUARTER

- We distribute starter code by adding it to your repo
- You will code in Eclipse
- The version control system we will be using is subversion
 - You turn in your files by adding them to the repo and committing your changes
- You will validate your homework by SSHing onto attu and running an Ant build file

331 VERSION CONTROL

- Your main repository is at /projects/instr/15sp/cse331/YourCSENetID /REPOS/cse331
- Only check out once (unless you're working in a lot of places)
- Don't forget to add files!!
- Check in your work!

HOW TO USE SUBVERSION

 Eclipse plugin: Subclipse o Recommended!

GUI interface: TortoiseSVN Command line: PuTTY

IMPORTANT DETAILS

- Windows users
 - Need to download <u>TortoiseSVN</u> and <u>Putty</u> anyways, to avoid errors known to come up in the Eclipse plug-in, Subclipse
- Mac users do not need to do this step.

CHECKING OUT YOUR REPO

- To check out a local copy of your repository on Eclipse
 - o First need to install Subclipse: http://courses.cs. washington. edu/courses/cse331/15sp/tools/WorkingAtHo me.html#Step3Eclipse
 - Next, need to checkout a local copy of your repository through Subclipse: https://courses. cs.washington. edu/courses/cse331/15sp/tools/versioncontro I.html#SetUpEclipse

HW 3

- Many small exercises to get you used to version control
- //courses.cs.washington. edu/courses/cse331/15sp/hws/hw3/hw3.html
- Committing changes: Instructions How you turn in your assignments
- Updating changes: Instructions
 - How you retrieve new assignments

Turning in HW3

- Instructions
- Done by simply committing your changes
 - o Good to do this early and often
 - Most recent commit before the deadline will be used for grading
- Before final commit, remember to run ant validate

Ant Validate

- What will this do?
 - Checks out a fresh local copy of your repository with all your changes
 - o Makes sure you have all the **required** files such as hw3/answers/problem6.txt
 - Make sure your homework builds without errors
 - o Passes specification and implementation tests in the repository
 - Note: this does not include the additional tests we will use when grading
 - This is just a sanity check that your current tests pass

Ant Validate

- How do you run ant validate?
 - Has to be done on attu from the command line since that is the environment your grading will be done on
 - o Do not use the Eclipse ant validate build tool!

Ant Validate

- . How do you run ant validate?
 - Steps
 - Log into attu via SSH
 - In attu, checkout a local copy of your repository through the command-line if you have not already
 - Note: Now, you should have two local copies of your repository, one on your computer through Eclipse and one in attu
 - Go to the hw folder which you want to validate through the 'cd' command
 - For example: cd ~/cse331/src/hw3
 - Run ant validate

Ant Validate

- How do you know it works?
 - If successful, will output Build Successful at the bottom
 - If unsuccessful, will output Build Failed at the bottom with information on why
 - If ant validate failed, fix and commit changes through eclipse, go to the copy of your repo on attu, and do 'svn update', and try ant validate again

Ant Validate

- For the future
 - Now have two local copies of your repository
 - One on your computer through Eclipse
 - One on attu through the command-line
 - $\circ \;\;$ Code and commit changes through Eclipse
 - Afterwards, go to repo on attu and do a 'svn update' command to retrieve all the changes you made from Eclipse
 - o Run ant validate