

# Useful Shortcuts

## Resource files

- Resource files are hidden files in your home directory that start with '.' and end with 'rc'. Some examples are .bashrc and .cshrc
  - Are there any other resource files in your home directory?
- .bashrc and .cshrc are special resource files for your shell (.bashrc if you use bash and .cshrc if you use csh or tcsh (default))
  - Which shell do you use?
- Your shell's resource file contains a list of command that get run every time your shell starts up
  - Open up your shell's resource file (.bashrc or .cshrc) and take a look
  - Find the place in the resource file that sets your prompt, try changing it, see what happens.
- One common thing to put in resource files are environment variables that are always the same
  - Can you think of any environment variables like this that we've used in class?
  - Insert a line in your resource file to set the environment variable SVN\_SSH. Now close and reopen your terminal. Print out the value of SVN\_SSH.
- By editing your resource file you can save yourself valuable time
  - Try setting the variable SVN\_EDITOR to the command you use to open your text editor. Now try and make an svn commit without putting the '-m' option.

## Makefiles Part 1

- Makefiles are composed of variables, targets, dependencies, and commands
  - Look on the internet and existing makefiles, try and figure out what these are
  - How do you get the value of a variable?
  - What character comes after a target name?
  - What character do dependencies come after?
  - What character should always precede a command?
- Makefiles allow you to automate several commonly performed tasks. One such task that might come in handy to automate is submitting your assignment.
  - Open up the Makefile that came with PA1. Create a new target named submit.
  - What files should this target depend on? Create a variable to store these files.
  - Add this variable as a dependency to the submit target.
  - Under the submit target write commands to submit your assignment. This command should make clean, create subversion.txt, tar up your directory, and submit your assignment. Try and use variable names as much as possible so that this command can be generalized for future assignments (PA2, PA3, etc.)
  - Try running make submit and see if it works.