CS320 Web and Internet Programming
Development on a Linux Server

Chengyu Sun
California State University, Los Angeles

.bashrc

- Executed every time you log into your account
- A good place to put some commands that help you set up your environment
- wget http://www.calstatela.edu/faculty/csun/teaching/cs320/extras/.bashrc

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Directory Structure

- root directory /
- current directory .
- Parent directory . .
- home directory ~

Moving Around

- `cd` /absolute/path
- `cd` relative/path
- `cd`

Directory and File Commands

- Find current directory: pwd
- List directory content: ls
  - list all files -a
  - list files in long format –l
- Copy files
  - cp file1 file2
  - cp file1 file2 dir
- Move/rename file
  - mv file1 file2
  - mv file1 file2 dir

Some Useful Commands

- Reference the manual pages
  - man <command>
- Create command aliases
  - alias dir="ls –lX"

Choices of Editors

- Console
  - vi, vim
  - emacs
  - pico
- With X Forwarding
  - gvim
  - xemacs
  - gedit
  - IDEs
    - Netbeans
    - Eclipse
    - KDevelop

Environment Variables

- Set an environment variable X
  - export X="something"
- Show an environment variable X
  - echo $X
- Common environment variables
  - $HOME, $PATH
  - $JAVA_HOME

File Permissions

- Three categories of users:
  - owner, group, other
- Three privileges
  - read, write, execute

File Permission Example

```
-rw-------   1 cs320stu31 cs320stu31    116 Sep 24 14:53 .mysql_history
drwx------   2 cs320stu31 cs320stu31   4096 Sep 24 14:43 .ssh
-rw-------   1 cs320stu31 cs320stu31    790 Sep 24 14:52 .viminfo
-rw-------   1 cs320stu31 cs320stu31     63 Sep 28 10:09 .Xauthority
drwxr-xr-x   2 cs320stu31 cs320stu31   4096 Sep 24 14:32 .xemacs
```

Change File Permissions

- chmod