

CS320 Web and Internet Programming

Development on a Linux Server

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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

.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>