

Terminal Workshop

CCNY ACM Club - Oct 22, 2015

File system basics

- `'.'`
- `'~'`
- `'..'`
- `'/'`

File system basics

- `.` - current directory
- `~` - user profile directory
- `..`
- `/`

File system basics

- `.` - current directory
- `~` - user profile directory
- `..` - parent directory
- `/` - root directory

Navigation

- `pwd`
- `cd`
- `ls`

Navigation

- `pwd` - print working directory
- `cd` - changes directory
- `ls` - list contents of a directory

File manipulation

- `mkdir`
- `cp`
- `mv`
- `rm`
- `` -r ``

File manipulation

- `mkdir` - make directory
- `cp` - copy file
- `mv`
- `rm`
- `` -r ``

File manipulation

- **mkdir** - make directory
- **cp** - copy file
- **mv** - move (or rename) file
- **rm** - remove file
- `` -r ``

File manipulation

- **mkdir** - make directory
- **cp** - copy file
- **mv** - move (or rename) file
- **rm** - remove file
- ``-r`` - needed when copying/removing a directory

File matching

- ``*``
- ``?``
- ``{a,b,c}``
- ``{0..5}``

File matching

- ``*`` - matches any zero or more char
- ``?`` - matches any one char
- ``{a,b,c}``
- ``{0..5}``

File matching

- ``*`` - matches any zero or more char
- ``?`` - matches any one char
- ``{a,b,c}`` - matches listed cases
- ``{0..5}`` - matches number/letter ranges

Text Reading

- cat
- less

Text Reading

- **cat** - display file contents
- **less** - display paginated file contents

Time savers

- Tab completion
- Arrow up
- history
- clear

Time savers

- Tab completion - complete command name or file path
- Arrow up - reuse previous commands
- **history**
- **clear**

Time savers

- Tab completion - complete command name or file path
- Arrow up - reuse previous commands
- **history** - display previous commands
- **clear** - clear output from previous commands

Pattern matching

- `grep`

Pattern matching

- **grep** - globally search a regular expression and print

Pipe

- ``a | b``

Pipe

- ``a | b`` - connect STDOUT of ``program a`` to the STDIN of ``program b``

Redirection

- ``aCommand < aFile``
- ``aCommand > aFile``
- ``aCommand >> aFile``
- ``aCommand < inFile > outFile``

Redirection

- ``aCommand < aFile`` - read in a file
- ``aCommand > aFile`` - write to a file
- ``aCommand >> aFile``
- ``aCommand < inFile > outFile``

Redirection

- ``aCommand < aFile`` - read in a file
- ``aCommand > aFile`` - write to a file
- ``aCommand >> aFile`` - append to a file
- ``aCommand < inFile > outFile`` - reading and writing combo