

Notes 3: Managing Files and Directories

Each of the commands for Managing Files and Directories

mkdir

Definition

Mkdir is used for creating a single directory or multiple directories.

Usage

`mkdir +`

Examples

- Display of mkdir using relative path
 - `mkdir wallpapers/ocean`
 - Display of mkdir using absolute path
 - `mkdir ~/wallpapers/forest`
 - Display of mkdir creating multiple directories
 - `mkdir wallpapers/cars wallpapers/cities/ wallpapers/forest`
-

touch

Definition

Touch is used for creating files

Usage

`touch +`

Examples

- Display of touch creating a file called "list"
 - `touch list`
 - Display of touch creating several files
 - `touch list_of_cars.txt script.py names.csv`
 - Display of touch using absolute path
 - `touch ~/Downloads/games.txt`
-

rm

Definition

rm removes files

Usage

```
rm -r +
```

Examples

- Display of rm removing a file called "list"
 - `rm list`
 - Display of rm removing a file and prompt confirmation before removal
 - `rm -i list`
 - Display of rm removing all files inside a directory and ask before removing more than 3 files
 - `rm -i Downloads/games/*`
-

rmdir

Definition

rmdir is used to remove empty directories

Usage

```
rmdir +
```

- Display of rmdir removing an empty directory
 - `rmdir Downloads/games`
-

mv

Definition

mv moves and renames directories

Usage

```
mv + source + destination
```

Examples

- Display of mv moving a file using relative path
 - `mv Downloads /homework.pdf Documents/`
 - Display of mv moving a file using absolute path
 - `sudo mv ~/Downloads/theme /usr/share/themes`
 - Display of mv moving a file from one directory to another combining absolute path and relative path
 - `mv games/ wallpapers/ rockmusic/ /media/students/flashdrive/`
-

cp

Definition

cp copies files/directories from a source to a destination

Usage

cp + files to copy + destination, cp -r + directory to copy + destination

Examples

- Display of cp copying directories, you must use the -r option
 - `cp -r + cp -r + directory to copy + destination`
 - Display of cp copying a file
 - `cp Downloads/wallpapers.zip Pictures/`
 - Display of cp to copy using absolute path
 - `cp -r ~/Downloads /wallpapers ~/Pictures/`
-

file

Definition

file determines the file type of a file

Usage

file + file type name

Examples

- Display of file type
 - `file type`
 - Display of file type without the file name
 - `file -b filename`
-

pdftinfo

Definition

displays information about pdf files

Usage

pdftinfo filename.pdf

Examples

- Display of pdftinfo
 - `pdftinfo homework1.pdf`
-

mediainfo

Definition

command line utility to display information about audio/video files

Usage

```
mediainfo whatever.png
```

Examples

- Display information about a media file
 - `mediainfo example.png`
 - Display full information of a media file
 - `mediainfo -f example.png`
 - Display of Output information to an html file
 - `mediainfo --output=HTML example.png > file.html`
-

exiv2

Definition

image metadata manipulation tool

Usage

```
exiv2 [option] [action] [file]
```

Examples

- Displaying information about an image file
 - `exiv2 example.png`
 - Display all exif data about an image file
 - `exiv2 -pt example.png`
-

exiftool

Definition

read and write meta information in files

Usage

```
exiftool
```

Examples

- Display information about a file
 - `exiftool example.png`
- Writing to all files in a directory

- `exiftool -artist=me c:/images`
- Writning mutiple tags with exiftool
 - `exiftool -artist="Phil Harvey" -copyright="2011 Phil Harvey" a.jpg`