

# Notes 5

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## mkdir

**Usage:**

Creates one or more directories.

**Formula:**

```
mkdir [option] [directory_name]
```

**Examples:**

- `mkdir projects`  
Creates a directory named `projects`.
  - `mkdir -p projects/java`  
Creates a parent directory and a subdirectory.
  - `mkdir -v mydir1 mydir2 mydir3`  
Creates multiple directories and displays each creation.
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## touch

**Usage:**

Used to create empty files or update file timestamps.

**Formula:**

```
touch [file_name]
```

**Examples:**

- `touch notes.txt`  
Creates an empty file named `notes.txt`.
  - `touch file1.txt file2.txt file3.txt`  
Creates multiple files at once.
  - `touch ~/Desktop/logs/output.log`  
Creates a file at a specific path.
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## rm

**Usage:**

Deletes files and directories.

**Formula:**

```
rm [option] [file_or_directory]
```

**Examples:**

- `rm file1.txt`  
Deletes a single file.
  - `rm -i important.txt`  
Prompts before deleting the file.
  - `rm -r old_projects`  
Recursively removes a directory and its contents.
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## `rmdir`

**Usage:**

Deletes empty directories only.

**Formula:**

```
rmdir [option] [directory_name]
```

**Examples:**

- `rmdir temp`  
Removes an empty directory named `temp`.
  - `rmdir -p work/project/final`  
Removes nested directories if they're all empty.
  - `rmdir -v folder1 folder2`  
Removes multiple directories and shows a message for each.
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## `mv`

**Usage:**

Moves or renames files and directories.

**Formula:**

```
mv [source] [destination]
```

**Examples:**

- `mv report.docx archive/`  
Moves `report.docx` into the `archive` folder.
  - `mv photo1.jpg photo_backup.jpg`  
Renames the file.
  - `mv file1 file2 folder/`  
Moves multiple files into a folder.
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## cp

**Usage:**

Copies files or directories from one location to another.

**Formula:**

```
cp [option] [source] [destination]
```

**Examples:**

- `cp todo.txt backup/`  
Copies a file to another directory.
  - `cp -r projects/ projects_backup/`  
Copies a directory and its contents recursively.
  - `cp *.jpg images/`  
Copies all `.jpg` files to the `images` folder.
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## file

**Usage:**

Displays the file type of a specified file.

**Formula:**

```
file [option] [file_name]
```

**Examples:**

- `file script.sh`  
Shows the type of the file `script.sh`.
- `file -b image.png`  
Displays the file type only (no filename).
- `file /etc/*`  
Lists the type of each file in the `/etc` directory.