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1. mkdir (Make Directory)

Description: Creates a new directory in the specified location. **Usage/Formula:** `mkdir [options] [directory]` **Examples:**

- `mkdir Pictures` - Creates a new directory named "Pictures".
- `mkdir -p Documents/2024/Photos` - Creates a nested directory structure (2024/Photos inside Documents), creating any necessary parent directories.

2. touch

Description: Updates the access and modification times of a file to the current time. If the file does not exist, it is created. **Usage/Formula:** `touch [file]` **Examples:**

- `touch newfile.txt` - Creates a new file named `newfile.txt` if it does not exist or updates its timestamp.

3. rm (Remove)

Description: Removes files or directories. **Usage/Formula:** `rm [options] [file]` **Examples:**

- `rm report.txt` - Removes the file `report.txt`.
- `rm -r old_photos` - Recursively removes the directory `old_photos` and all its contents.

4. rmdir (Remove Directory)

Description: Removes empty directories. **Usage/Formula:** `rmdir [directory]` **Examples:**

- `rmdir empty_folder` - Removes the directory `empty_folder` if it is empty.

5. mv (Move)

Description: Moves or renames files and directories. **Usage/Formula:** `mv [source] [destination]` **Examples:**

- `mv initial.txt final.txt` - Renames `initial.txt` to `final.txt`.
- `mv report.pdf ~/Documents/` - Moves `report.pdf` to the `Documents` directory.

6. cp (Copy)

Description: Copies files and directories. **Usage/Formula:** `cp [options] [source] [destination]` **Examples:**

- `cp source.txt destination.txt` - Copies `source.txt` to `destination.txt`.
- `cp -r source_folder destination_folder` - Recursively copies a directory and its contents to a new location.

7. file

Description: Determines the type of a file based on its contents and the file signature. **Usage/Formula:** `file [file]` **Examples:**

- `file image.jpg` - Displays the file type of `image.jpg`.
- `file script.sh` - Displays the file type of `script.sh`, indicating if it's a shell script.