

Note 6

The * Wildcard

It can represent any number of characters, including none.

Examples

1. List all txt and python files
`->> ls -A *.txt *.py`
2. List all the files that have 'demo' in the name
`->> ls -A *demo*`
3. Move all the files inside a directory
`->> mv Pictures/* ~/Backup/`

The ? Wildcard

Useful for targeting files with single-character differences.

Examples

1. Copy all the files that have 2 characters between letters.
`->> cp Downloads/b?k.pdf Documents/`
2. List all the files with a 2 letters file extension
`->> ls -A Scripts/*.?? Programs/program.?? Downloads/setup*.??`
3. Remove all the hidden files in a given directory
`->> rm Documents/.??*.doc`

The [] Wildcard

You can define a set or a range of characters.

Examples

1. List all the text files that start with an uppercase letter and all the python files that start with a number.
`->> ls -A[A-Z]*.txt [0-9]*.py`
2. List all the ruby file that do not start a number.

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->> ls -A[!0-9]*.rb
3. List all the files that have one of the characters in a set before the
extension.
->> list *[xyz].*
```

Brace Expansion {}

The brace expansion {} allows you to automatically generate a series of text strings from a pattern. It doesn't search for files like wildcards (*, ?, []), but instead creates multiple words or commands before executing them.

Examples:

1. The braces {1,2,3} are expanded in several versions of the word fileThe braces
 {1,2,3} are expanded in several versions of the word file.
 ->> echo file{1,2,3}.txt
2. We use {1..5} to generate a sequence from 1 to 5.
 ->> echo file{1..5}.txt
3. This generates files with letters from A to C.
 ->> echo file{A..C}.txt