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# Notes 4

### Wildcards

#### \* Wildcard

the \* wildcard matches from 0 to any number of characters.

- Examples:
  - list all txt files in the directory
    - 'ls \*.txt '
  - list all files that start with the word file
    - 'ls file\*'
  - Copy all the mp4 files
    - 'cp Downloads/\*.mp4 ~/Videos/Movies/'

#### ? Wildcard

the? wildcard matches only one character

- Examples:
  - list all hidden files in current directory
    - 'ls ./.??\* '
  - list all hidden files in the parent directory
    - 'ls ../.??\* '
  - list all files that have two characters between letter b and k
    - 'ls b??k\*'

### [] Wildcard

the {} wildcard match a single character in a range

- Examples:
  - o match all files that have a vowel after letter f
    - 'ls f[aeiou]\*'
  - match all files that do not have a vowel after letter f
    - 'ls f[!aeiou]\* '
  - match all files whose name begins with any 3 combinations of numbers and the current user's
    - 'ls [0-9][0-9]\$USER '

# **Brace Expansion**

Brace expansion is not a wildcard but another feature of bash that allows you to generate arbitrary strings to use with commands.

- Examples:
  - o create a whole directory structure in a single command

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mkdir-p music/{jazz,rock}/{mp3files,videos,oggfiles}/new{1..3}

- create N number of files
  - touch website {1..5}.html
- remove multiple files in a single directory
  - rm -r {dir1,dir2,dir3,file.txt,file.py}