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The * Wildcard Will match anything or nothing so it should be used in addition to characters you know you're looking for otherwise your search will return everything

- ex 1: ls *.md Will list everything the ends with the .md file extension
- ex 2: ls Jerry* If you're using a naming convention that starts with a person's name it will list all the files attributer to "Jerry"
- ex 3: ls File.* Will list everything named "File" under any file extension
- The? Wildcard The? wildcard matches one character. Can be used to find hidden files
- ex 1: ls ./.??* Lists all hidden files in the current directory
- ex 2: ls ../.??* Lists all the hidden files in the parent directory
- ex 3: ls *.?? Lists all files with a two character file extension
- ex 4: 19??.txt Will search for all files dated 1900-1999
- **The [] Wildcard** Brackets allow you to specify a set or range in which a single character may exist can be modified with! to specify a set or range of characters to exclude from the search. Letters are case sensitive. Can be used with character classes
- ex 1: ls [0-9]* will list any file that starts with a number
- ex 2: ls [a-zA-Z]* will list any file starting with any letter, upper or lower case
- ex 3: ls [!0-9][!0-9][!0-9]* will list files whose first three characters are not numbers
- ex 4: ls [[:space:]] will list any file with a whitespace character in the middle
- **Brace Expansion** Brace expansion is a bash feature that allows you to generate arbitrary strings to use with commands
- ex 1: touch weeklyreport{1..8}.md Will generate 8 weekly report files numbered 1 through 8
- ex 2: mkdir -p roms/{snes,genesis,tg16}/{rpg,shmup,platformer} Will create a file structure. *note* -p option allows mkdir to create the necessary parent folders
- ex 3: rm -r {poem.txt,dog.png,homework.py} Remove multiple files in a directory

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```
Connecting to cis106.com (cis106.com)|185.199.108.153|:443... connected.
HTTP request sent, awaiting response... 200 OK
_ength: 3520 (3.4K) [image/png]
Saving to: 'logo100x100.png'
logo100x100.png
                  in 0.004s
2023-11-18 19:52:49 (944 KB/s) - 'logo100x100.png' saved [3520/3520]
jcpachtinger@cis106:~$ cd wildcardpractice/
jcpachtinger@cis106:~/wildcardpractice$ ls *random*
_random.csv random_text.md randomtext.txt
icpachtinger@cis106:~/wildcardpractice$ ls *.csv
random.csv Sample1234.csv sample123.csv
jcpachtinger@cis106:~/wildcardpractice$ ls *.txt
78food.txt randomtext.txt
jcpachtinger@cis106:~/wildcardpractice$ ls random*.md
random_text.md
jcpachtinger@cis106:~/wildcardpractice$ ls *sample*
sample123.csv sample1.xls
                            samplejsonfile.json samplesite.html
sample1.doc
              sample99.docx
                            sample.pdf
jcpachtinger@cis106:~/wildcardpractice$ ls *.md
jcpachtinger@cis106:~/wildcardpractice$
```

```
jcpachtinger@cis106:~/wildcardpractice$ ls *.???
                                  bk.pdf
2020-08-27-capture.raw baik.pdf
                                            file.log
                                                             sample1.doc
2022-02-02-camera.jpg
                       baik.xml
                                  bk.xml
                                            logo100x100.png
                                                             sample1.xls
                                                             sample.pdf
                       beatk.exe
78food.txt
                                  book.exe _random.csv
                                                             Sample.pdf
allfiles.lst
                       beatk.pdf
                                  book.pdf
                                            randomtext.txt
Allfiles.lst
                       beatk.xml
                                  book.xml Sample1234.csv
baik.exe
                       bk.exe
                                  fail.log sample123.csv
jcpachtinger@cis106:~/wildcardpractice$ ls ./.??*
./.bash_history ./.hidden1.py
                                ./.hidden2.py
                ./.hidden2.doc ./.hiddenFile.txt
./.hidden1.doc
jcpachtinger@cis106:~/wildcardpractice$ ls b??.???
ls: cannot access 'b??.???': No such file or directory
icpachtinger@cis106:~/wildcardpractice$ ls b??*.???
baik.exe baik.xml beatk.pdf book.exe book.xml
baik.pdf beatk.exe beatk.xml
                               book.pdf
jcpachtinger@cis106:~/wildcardpractice$ ls sample?.*
sample1.doc sample1.xls
jcpachtinger@cis106:~/wildcardpractice$ ls ./.??*.??
jcpachtinger@cis106:~/wildcardpractice$
```

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```
1/1 ~ + 1 4
                                  Tilix: jcpachtinger@cis106: ~/wildcardpractice
                                                                          Q = -
jcpachtinger@cis106:~/wildcardpractice$ ls [a-z]*.???
allfiles.lst
              beatk.exe
                         bk.pdf
                                    book.xml
                                                      randomtext.txt
                                                                      sample.pdf
baik.exe
                         bk.xml
                                    fail.log
              beatk.pdf
                                                      sample123.csv
baik.pdf
              beatk.xml
                         book.exe
                                    file.log
                                                      sample1.doc
baik.xml
              bk.exe
                          book.pdf logo100x100.png
                                                      sample1.xls
jcpachtinger@cis106:~/wildcardpractice$ [A-Z]*[0-9]*.*
Sample1234.csv: command not found
jcpachtinger@cis106:~/wildcardpractice$ ls [A-Z]*[0-9]*.*
Sample1234.csv
jcpachtinger@cis106:~/wildcardpractice$ [0-9][0-9][0-9]*
2020-08-27-capture.raw: command not found
jcpachtinger@cis106:~/wildcardpractice$ ls [0-9][0-9][0-9][0-9]*
2020-08-27-capture.raw 2021-04-10-screenshot.jpeg 2022-02-02-camera.jpg
jcpachtinger@cis106:~/wildcardpractice$ ls [!aeiouAEIOU]*
2020-08-27-capture.raw
                             beatk.pdf fail.log
                                                          sample1.doc
2021-04-10-screenshot.jpeg
                             beatk.xml
                                        file.log
                                                          sample1.xls
2022-02-02-camera.jpg
                             bk.exe
                                        logo100x100.png
                                                          sample99.docx
78food.txt
                             bk.pdf
                                                          sample;sonfile.;son
                                        _random.csv
baik.exe
                             bk.xml
                                        random text.md
                                                          sample.pdf
baik.pdf
                             book.exe
                                        randomtext.txt
                                                          Sample.pdf
baik.xml
                             book.pdf
                                                          samplesite.html
                                        Sample1234.csv
beatk.exe
                             book.xml
                                        sample123.csv
jcpachtinger@cis106:~/wildcardpractice$ ls [[:punct:]]*
_random.csv
jcpachtinger@cis106:~/wildcardpractice$
```