

Session: File System and Commands  
Topic: Wildcards

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## Wildcards

- Used to specify files that fit a pattern
- Used to specify multiple files

## Valid Filename Characters

- Alphanumeric (A-Z, a-z, 0-9)
- Dot (.)
- Some others
- UNIX is case-sensitive

?	Matches a single character
*	Matches zero or more characters
[ <set> ]	Matches one of the characters in <set>

## Sets

- A set can contain any series of characters to be matched
- A hyphen (-) may be used to specify a range of characters

[V1046r]	Matches one or more of the characters 'V', '1', '0', '4', '6', or 'r'
[A-Za-z]	Matches one or more upper or lowercase letters
[0-9a-d]	Matches one or more digits and the characters 'a', 'b', 'c', or 'd'

## Examples

```
ls -l auto*
ls *.zip
rm catch?2
ls [fmt]ile[0-9]
rm * (Beware of using this command)
```

## Example directory

```
dchang@quake:~/sample/wildcards>ls -l
total 9
-rw-r--r--    1 dchang   fac    10 Aug 29 23:02 brucelee
-rw-r--r--    1 dchang   fac     9 Aug 29 23:03 bruceleli
-rw-r--r--    1 dchang   fac     8 Aug 29 23:08 brucexx
-rw-r--r--    1 dchang   fac     0 Aug 29 23:11 rx
-rw-r--r--    1 dchang   fac    15 Aug 29 23:06 strike.gundam
-rw-r--r--    1 dchang   fac     7 Aug 29 23:03 tokyox
-rw-r--r--    1 dchang   fac     7 Aug 29 23:03 tokyoy
-rw-r--r--    1 dchang   fac     7 Aug 29 23:04 tokyoz
-rw-r--r--    1 dchang   fac    15 Aug 29 23:06 wing.gundam
-rw-r--r--    1 dchang   fac    15 Aug 29 23:05 zero.gundam
dchang@quake:~/sample/wildcards>
```