More Pattern Matching

Pattern Matching	
Operator	***Meaning***
*	Matches any string including the null.
?	Matches single character
[a-Z]	Matches case insensitive letters a - z
[0-9a-Z]	Matches case insensitive letters and numbers
**/*	Matches all files and zero or more directories and subdirectories
/	Matches only directories and subdirectories
Posix Classes	
Operator	***Meaning***
`[[:alnum:]]`	matches alphabetic or numeric characters. This is equivalent to **`[A-Za-z0-9]`**
`[[:alpha:]]`	matches alphabetic characters. This is equivalent to **`[A-Za-z]`**
`[[:space:]]`	matches whitespace characters (space and horizontal tab)
`[[:cntrl:]]`	matches control characters
`[[:digit:]]`	matches (decimal) digits. This is equivalent to **`[0-9]`**
`[[:lower:]]`	matches lowercase alphabetic characters. This is equivalent to **`[a-z]`**
`[[:print:]]`	Matches characters in the range of ASCII 32 – 126 (printable characters)
`[[:upper:]]`	matches uppercase alphabetic characters. This is equivalent to **`[A-Z]`**
`[[:xdigit:]]`	matches hexadecimal digits. This is equivalent to **`[0-9A-Fa-f]`**
`ls [[:digit:]]` `grep [[:digit:]] test.file`	
Extended Pattern Matching	
Operator	***Meaning***
*(pattern)	Matches zero or more occurrences of the given pattern
+(pattern)	Matches one or more occurrences of the given pattern
?(pattern)	Matches zero or one occurrence of the given pattern
@(pattern)	Matches exaclty one of the given pattern
!(pattern)	Matches anything except one of the given pattern

`ls -d !(*.html|*gif|*jpg) # everything but .html, .jpg or ,gif files`
`ls file+([0-9])  # list file9, file22 but not fileit`
`ls -d +(apl*|un*)  # begins with apl or un only`	