

## Www. Pattern Matching ? Explain in detail.

Shell patterns are used in animber of contents. In a pattern, most characters match themselves and only themselves. The coord hello is a prefetly valid pattern It matches the word hello and nothing else. A pattern that matches only part of a string is not considered to have matched that string. The word hello does not match the tent hello, would. For a pattern to match a string, two things must be true:

Every character in the pattern must match the string.

Now, if this were all there where to pattonis, a would be another way describing sterling comparision an the nest of this chapter would consists of felter tent like a consist of sequences of nondonk characters separated by blanks or possibly some wonderful cookies necepes. Sadly the Ps not so Instead , there are some characters in a pattern that have special meaning and can match something other than themselves Characters that have special meaning and can match something other than themselves. Charaters that have special meaning in a pattern are called wildcoold or metacharacters. Some users prefer to nesterict the town wildcand to refer only to the special character that can match anything. In Laking about patiens, I perfer to call their all wild card to avoid confusion with character that have special meaning to the shell. Wildcards make these two simple sules much more complicated a single character in a pattern could match a vory long stying or a group of characters in the

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patt on might match only the one character or even none at all what matters is that there is no mis matches and nothing left over of the string after the match

The most command wildwards are the guestion markets which matches any character, and asterisks we which matches anything at all, even an empty stering.

Y what are wildcard characters? How can we weith

A wild card is a symbol that takes the place of an unknown character or set of characters commonly used wild cards and the asterish(\*) and the question mark(3), Depending on the software or the search engine you are using other wild card characters a may be defined.

When you are searching for files in Unix, DOS or when you are searching for files in Unix, DOS or windows or on the web, you can simply you search by using a wild card. Wild cards may also simplify commands is used from the command line in UNIX or DOS.

the asterisk (+)

The asterisk preparents any number of unknown Chanacters. Use it when searching for downers or files for which you have only provided name.

Ex:

Create 3 files name file 1 file & file 3. 10

list out all the files with above coneated.

Just enter file\*

Olp -> file1 file2 file3 all of them will be listed.

The question mark(2)

The question mark represents only one unknown character . Use it when you have a list of files with a very similar name, or when you are unsure of a few characters.

Coneate & files named take 1.44 taken +44 e 2 + 44 take 22 + 44 take 22 + 44 take 24 + 15xt

If you enter take? +xt

of take, txt taken txt

well be displayed after & take only one character will be matched and displayed.

tarke ?? .txt

take 22-txt

take 33-txt

will be displayed as 3? 2 characters are being matched and displayed.

Combining (\*) and?

You can we the asterish (\*) and the question mork (3) unjushere in a search, and you can also use them together. For example if you want to find all the files that starts with home followed by one or two characters and ending with the

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any entension enter home?? \* as you search term Your search may on might return home 45.bah or homely-txt but not homeloan-doc as it more than a characters.

Assumption file names as about about, about about about about the files using mange in the draw dass hemove the files using the day and files. name.

Assume you have parcent /, parent 2, parent 3
as disrectories.
Copy to the parent dir thoes files having entension with at least I character. At least one char before the but not having 1238 as last char.

Intedia purent -> cd parent 1
Intedia purent d -> cd parent d.

White parent d -> cd parent 1

Touch abc 1

Touch abc 3

Touch abc 4

Touch abc 5

Touch abc 7

Touch abc 8

cp? \* . \* [1238] ...