notes.md 2024-11-11

# Notes 6

POSIX class	Represents	Means	Example using ls
[:upper:]	[A-Z]	Uppercase letters	ls *[[:upper:]]* - List files with uppercase letters
[:lower:]	[a-z]	Lowercase letters	ls *[[:lower:]]* - List files with lowercase letters
[:digit:]	[0-9]	Digits	ls *[[:digit:]]* - List files containing digits
[:alpha:]	[A-Za-z]	Alphabetic characters	ls *[[:alpha:]]* - List files with alphabetic characters
[:alnum:]	[A-Za-z0-9]	Alphanumeric characters	ls *[[:alnum:]]* - List files with alphanumeric characters
[:space:]	[ \t\n\r\f\v]	Whitespace characters	ls *[[:space:]]* - List files with spaces in names
[:punct:]	Punctuation	Punctuation characters	ls *[[:punct:]]* - List files with punctuation characters
[:blank:]	[ \t]	Space and tab	ls *[[:blank:]]* - List files with spaces or tabs
[:xdigit:]	[0-9A-Fa-f]	Hexadecimal digits	ls *[[:xdigit:]]* - List files with hexadecimal characters
[:cntrl:]	Control characters	Control characters	ls *[[:cntrl:]]* - List files with control characters
[:print:]	Printable	Printable characters	ls *[[:print:]]* - List files with printable characters
[:graph:]	Graphical	Visible characters (not spaces)	ls *[[:graph:]]* - List files with graphical characters
[:word:]	[A-Za-z0-9_]	Word characters (alphanumeric + underscore)	ls *[[:word:]]* - List files containing word characters
[:ascii:]	ASCII characters	All ASCII characters (0-127)	ls *[[:ascii:]]* - List files containing ASCII characters

## \* Wildcard

<sup>\*</sup> matches 0 to any number of characters

notes.md 2024-11-11

#### Example:

```
* ls -1d wildcard_extra_practice/*/

* mv wildcard_extra_practice/*.sh wildcard_extra_practice/scripts/

* mkdir wildcard_extra_practice/images/
```

#### ? Wildcard

```
* matches 1 character
```

#### Example:

```
* ls -1X wildcard_extra_practice/*.????

* ls -1X wildcard_extra_practice/i*.????

* ls -1X wildcard_extra_practice/*.???x
```

### [] WIldcard

```
* matches 1 character from a set
```

#### Example:

```
* ls *[[:upper:]]*
* ls *[[:lower:]]*
* ls *[[:digit:]]*
* ls f[a-z]*
```

### Brace Expansion

```
* allows you to generate aribiturary strings to use with commands
```

#### Example:

notes.md 2024-11-11

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

* touch webdite{1..5}.html

*rm -r {dir1,dir2,dir3,file.txt.file.py}
```