Meta Characters:

( ) [ ] { } ^ $. \ ? * + |

Escape Character: ****

Within square brackets, you only have to escape (1) an initial ^, (2) a non-initial or non-final -, (3) a non-initial], and (4) a \.

- **Validate** that a piece of text (or a portion of that text) matches some pattern
- **Find** fragments of some text that match some pattern
- **Extract** fragments of some text
- **Replace** fragments of text with other text

`hello`	contains {hello}
`gray|grey`	contains {gray, grey}
`gr(a|e)y`	contains {gray, grey}
`gr[ae]y`	contains {gray, grey}
`b[aeiou]bble`	contains {babble, bebble, bibble, bobble, bubble}
`[b-chm-pP]at|ot`	contains {bat, cat, hat, mat, nat, oat, pat, Pat, ot}
`[a-zA-Z]`	a through z or A through Z, inclusive (range)
`colou?r`	contains {color, colour}
`rege(x(es)?|xps?)`	contains {regex, regexes, regexp, regexps}
`go*gle`	contains {ggle, gogle, google, gooogle, goooogle, ...}

`go+gle`	contains {gogle, google, gooogle, goooogle, ...}
`g(oog)+le`	contains {google, googoogle, googoogoogle, googoogoogoogle, ...}
`z{3}`	contains {zzz}
`z{3,6}`	contains {zzz, zzzz, zzzzz, zzzzzz}
`z{3,}`	contains {zzz, zzzz, zzzzz, ...}
`[Gg]o\*\*le`	contains {Go**le, go**le }
`\d`	contains {0,1,2,3,4,5,6,7,8,9}
`1\d{10}`	contains an 11-digit string starting with a 1
`Hello\nworld`	contains Hello followed by a newline followed by world
`mi.....ft`	contains a nine-character (sub)string beginning with mi and ending with ft (Note: depending on context, the dot stands either for “any character at all” or “any character except a newline”.) Each dot is allowed to match a different character, so both microsoft and minecraft will match.
`^dog`	begins with "dog"
`dog$`	ends with "dog"
`^dog$`	is exactly "dog"

`[^i*&2@]`	contains any character other than an i, asterisk, ampersand, 2, or at-sign.

([A-Z])\w+ Finds all words starting with uppercase letter

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regex101.com