

- ✓ Regular Expression in short regex
- ✓ Regex is a sequence of characters that define a search pattern
- ✓ Usually this pattern is used by string searching algorithms for "find" or "find and replace" or for input validation
- ✓ PHP has built in functions that allow us to work with regular expression
- ✓ `preg_match($pattern, $input);`
- ✓ It returns true if a match is found and false if a match is not found.
- ✓ Metacharacters (some character with special meaning)
- ✓ Character Classes (Matching any one of several character)
- ✓ Quantifiers (Repetition)



✓ Metacharacters

- ✓ `^` (caret) => Match the position of start of line
- ✓ `$` (dollar) => Match the position of end of line
- ✓ `.` (period) => Match any one character
- ✓ `-` (dash) => Match a range of elements inside []
- ✓ `[]` (character class) => Match any one character listed
- ✓ `[^]` (negate character class) => Match anything's except listed inside
- ✓ `\char` (escape metacharacter) => It escape metacharacter in strings
- ✓ `*` (star) => 0 or more times
- ✓ `+` (plus) => 1 or more times
- ✓ `{min, max}` (specified range) => Min required, max allowed
- ✓ `()` (grouping) => Groups a different pattern elements together
- ✓ `/pattern/` (pattern) => Pattern always goes inside double slashes



- ✓ [a-z] => Match any one from 'a to z' lowercase
- ✓ [A-Z] => Match any one from 'A to Z' uppercase
- ✓ [0-9] => Match any one from '0 to 9' number
- ✓ [a-zA-Z] => Match any one from 'a to z or A to Z'
- ✓ [a-zA-Z0-9] => Match any one from 'a to z or A to Z or 0 to 9'
- ✓ [a-z]* => Match zero or many from 'a to z'
- ✓ [a-z]+ => Match one or many from 'a to z'
- ✓ .* => Match zero or many from any
- ✓ (?=) => Positive look ahead
- ✓ [a-z]{1, 2} => Match one or two from 'a to z'
- ✓ [a-z]{1, } => Match one or unlimited from 'a to z'
- ✓ /pattern/i => i means case insensitive matches

