PHP working with regular expressions

PHP web development 2019/2020

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A regular expression,

regex or

regexp

is a sequence of characters that define a search pattern.





- telephone pattern: +1 - (800)-555-2468

- link pattern: http://foo.co.uk/

- date pattern: 14 - 07 - 2015





Usage

- "find" or "find and replace" operations on strings,
 - input validation.

Regular expressions are used in search engines, search and replace dialogs of word processors and text editors, in text processing utilities such as sed and AWK and in lexical analysis.

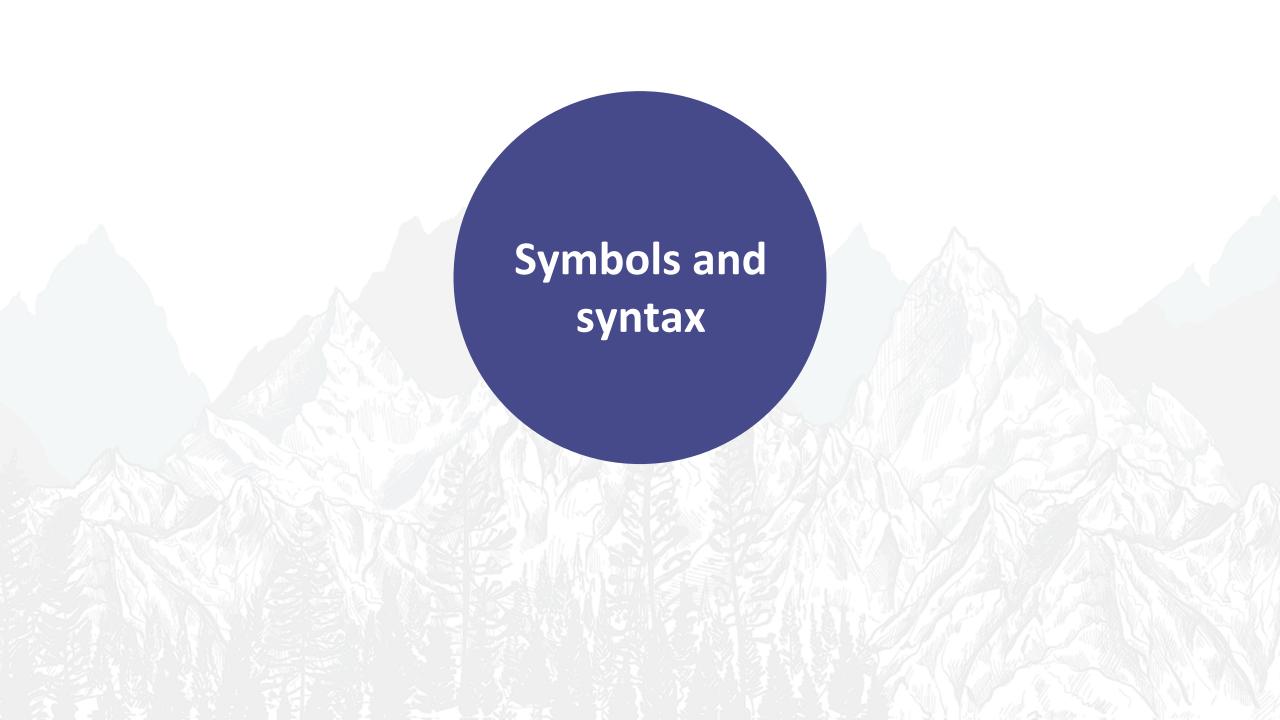




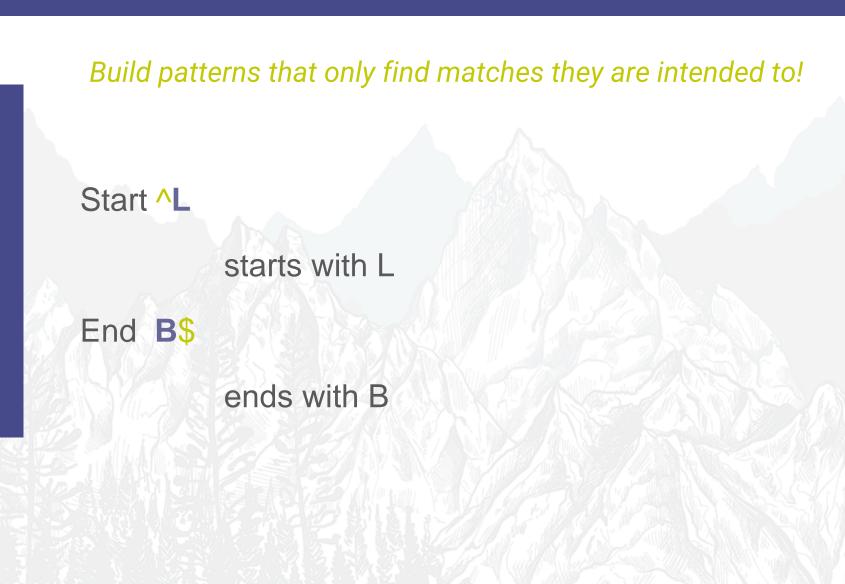
Many programming languages provide regex capabilities either built-in or via libraries.

Principles and techniques for building regular expressions are the same for all programming languages that use them.





Start End RegExr



flags RegExr Build patterns that only find matches they are intended to!

g – global search

i - case-insensitive search

m - multiline search

letters, digits
RegExr

Build patterns that only find matches they are intended to!

any symbol

[bgi] - look for the symbols specified in brackets

[a-zA-Z] – look for the symbol interval specified in brackets - all small and uppercase letters

[0-9] – all digits 0 to 9

[^abc] - all but the specified in brackets

general symbols

RegExr

Build patterns that only find matches they are intended to!

```
    /s – matches a single white space character,
    including space, tab, form feed, line feed
    /s – matches a single character other than white space
```

```
/d — same as [0-9]
/D — еквивалентно с [^0-9]
```

```
/w – all letters - small and uppercase, digits and _/W – all but letters - small and uppercase, digits and
```

symbol repeats

RegExr

Build patterns that only find matches they are intended to!

- + symbol repeats 1 or many times
- ? symbol repeats 0 or 1 time
- first or the second pattern
- **(5)** number of repeats 5 times exactly
- {1, 5} number of repeats from 1 to 5 times

grouping RegExr

Build patterns that only find matches they are intended to!

use () to make a group for the pattern

grouping RegExr

Build patterns that only find matches they are intended to!

Task Make pattern that matches telephone numbers in the format

555,123,4567

The pattern is

 $(([0-9] {3} \.)){2}([0-9] {4})$



PHP regex functions



preg_match() - searches in
string for match of the given
pattern. Returns only the first
match.

preg_match_all() - searches
in string for match of the
given pattern. Returns all
matches.

preg_replace() - searches and
replaces in string matching given
pattern

preg_split() - splits a string
according to given pattern



Learn to Search in Internet



- The course assignments require to search in Internet
 - This is an important part of the learning process
 - Some exercises intentionally have no hints
- Learn to find solutions!
 - Software development includes everyday searching and learning
 - No excuses, just learn to study!
 - Developers learn new technologies, tools, languages every day!





Questions?



Partners















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