Starting shortly

Please
wait!ActivityInfo

Learning Regular Expressions for validation rules and quality data



Presentation outline

Overview

- What is a regular expression?
- Basic Syntax
- Groups
- More questions



What is a regular expression?

Definition

REGULAR EXPRESSIONS

"A sequence of characters that specifies a search pattern"

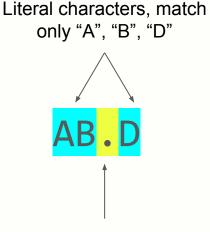




Literal and Meta- characters

REGULAR EXPRESSIONS

Example:



Metacharacter, meaning "match any character" Matches:

ABCD ABXD AB3D AB9D AB.D

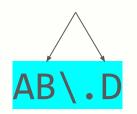


Escaping meta characters

REGULAR EXPRESSIONS

Example:

Literal characters, match only "A", "B", "." and "D"







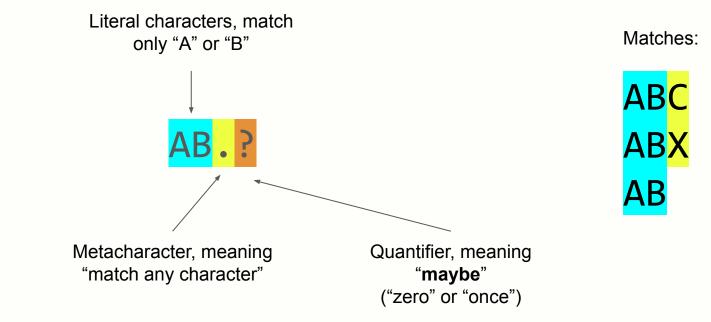


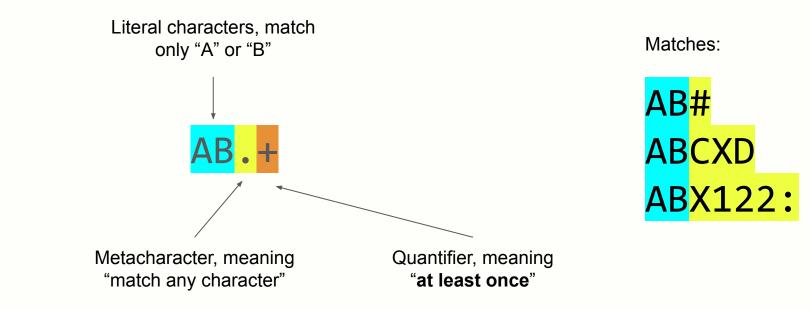




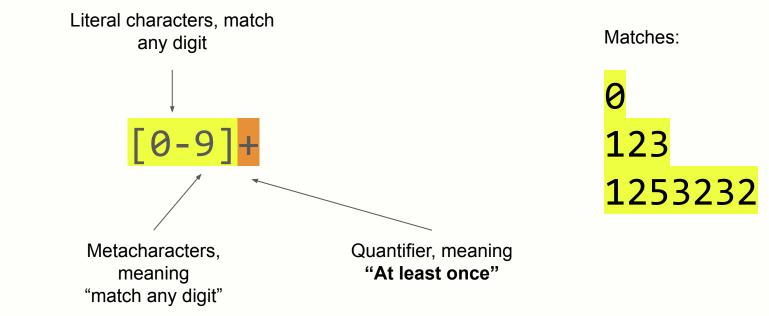
Quantifiers	
Syntax	
•	Match any character
[0123456789]	Matches any of the characters between the brackets
[0-9]	Matches any of the character ranges
[A-Z]	Matches any uppercase letter
[0-9A-Za-z]	Matches any letter or number
[^abc]	Matches any character NOT in range



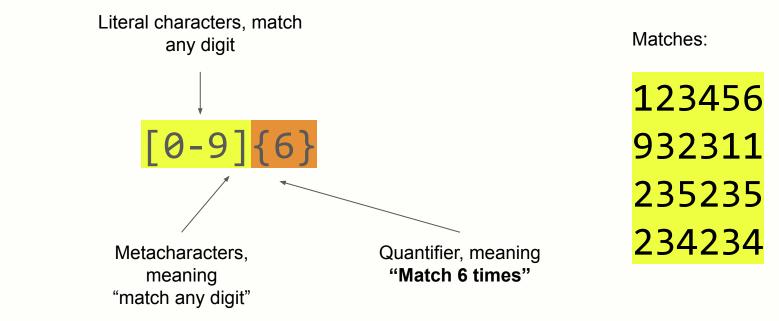


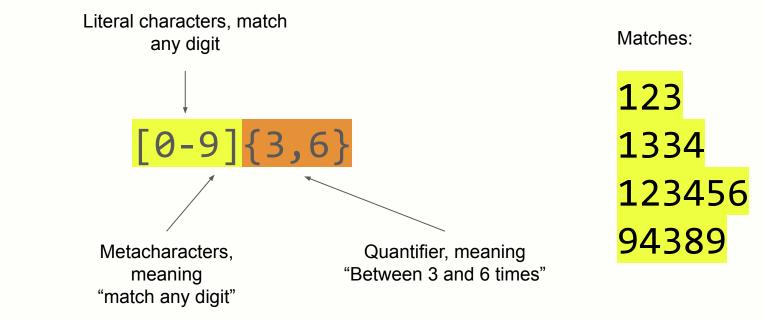












Character class shortcuts

SYNTAX

Shortcut	Description	Equivalent class
\d	Digits	[0-9]
١w	Alphanumeric and _	[A-Za-z0-9_]
\s	Whitespace	[]



Character class shortcuts - Inverse

SYNTAX

Shortcut	Description	Equivalent class
\D	NOT Digits	[^0-9]
\W	NOT Alphanumeric nor _	[^A-Za-z0-9_]
\S	NOT Whitespace	[^]



Phone number

EXAMPLES

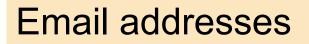
Dutch Mobile numbers:

06-47205389



https://www.activityinfo.org/support/docs/regex/test.html





EXAMPLES

alex@bedatadriven.com

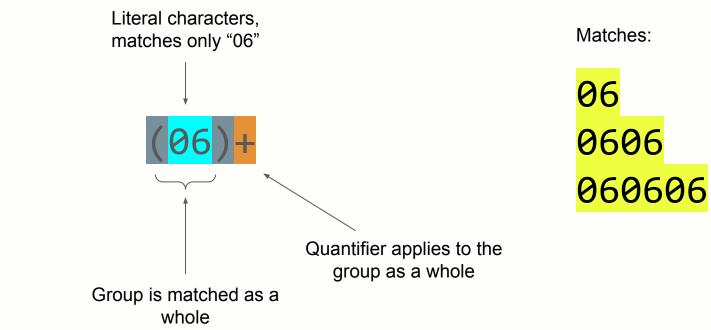


https://www.activityinfo.org/support/docs/regex/test.html



Groups

SYNTAX





Disjunctions

SYNTAX

Either the pattern on the left, or on the right

Matches:

06 07



Groups matched as a whole

Assertions - Word boundaries

SYNTAX

Requires a word boundary



Matches:

<mark>safe</mark> she is <mark>safe</mark>

Doesn't match: failsafe

vouchsafe



Assertions - Beginning of input

SYNTAX

Must match at beginning of input



Matches:

safe

<mark>safe</mark>ty

Doesn't match: failsafe

She is safe



Look-behind assertions



Must be preceded by



Matches:

bob@google.com

Doesn't match:



