RegexOne

These notes have been taken from https://regexone.com. a

Lesson 1: An Introduction, and the ABC's

Regular expressions are extremely useful in extracting information from text. The first thing to recognize is that **everything is a character**.

regex allows you to match characters anywhere in the string.

regex: abc abcde abcd abc

regex: 123 abc 123 xyz define "123" var g = 123;

Lesson 2: The Dot

The dot operator . is a wildcard and can match any *single* character. In order to match an actual period character, we need to escape the operator by using a slash, ie. \.. The following shows a way to match the first three strings but now the last.

regex: match: cat. match: ?=+. match: 896. skip: abc1

Lesson 3: Matching Specific Characters

Sometimes . is too powerful for our use. For example, if we wanted to validate a phone number but we used ., it would allow (abc) def-ghif as being a valid phone number!

In order to match specific characters, we define then inside square brackets. For example, the patter [abc] will only match a **single** 'a', 'b', or 'c' letter and nothing else.

Below are a few lines, match only the first three strings using regex, but not the last three.

regex: [cmf]an match: **can** match: **man** match: **fan** skip: dan skip: ran skip: pan

Lesson 4: Excluding Specific Characters

In other cases, we might want to exclude specific characters instead of including them. To represent this, we use the hat operator $\hat{}$. For example, the pattern [^abc] will match any **single** character *except for* the letters 'a', 'b', or 'c'.

Match the lines that match with hog and dog, but not bog

regex: [^b]og match: hog match: dog skip: bog

Lesson 5: Character Ranges

Use a dash to indicate a character range of sequential characters to match. For example, the pattern [0-6] will match a single digit from 0 to 6, and the pattern $[^n-p]$ will match a single character **except** for the letters from n through p.

Multiple character ranges can be used in the same set of brackets, along with individual characters. An example of this is the alphanumberic \w metacharacter which is equivalent to the character range [A-Za-z0-9_] and is often used to match characters in English text.

Lesson 6: Repititions of Characters to Match

Instead of