**Regex Notes**

[**https://regexone.com/**](https://regexone.com/)

**\d :-** can be used in place of any digit from 0 – 9

**NOTE: \** indicated a metacharacter

**\d+** for all digits

**Wildcard:-** represented by *.(dot)* metacharacter , can match any *single* character

Eg:- letter , digit, whitespace, everything, to escape *period* use **\.** for only period

**Matching square characters: [abc]** will only match *single* a, b, **or** c letter

**Exclude Specific Characters ^(hat):** match any single character except [^abc]

**Sequential Characters –(dash):** [0-6] and [^n-p] **Alphanumeric \w** [A-Za-z0-9\_]

**Repetitions: a{3}, [ab]{5}, .{2, 6}, a{1, 3} =** allows repetitions atleast once and less than 4

**Kleene Star \*: 0 or more AND Kleene Plus +: 1 or more**

**Optionality ?: ab?c** here b is considered optional , therefore for question mark **\?**

**White Space: space(\_)**, **tab(\t), new line(\n), carriage return (\r)**

**Special Whitespace** **\s** will match any of the specific whitespace

**Starting and ending(^ and $):** describes must start with and must end with

Eg: ^Mission: successful$

**( and )Matching Group:** file name without extension ^(IMG\d+)\.png$ for full file

name ^(IMG\d+)\.png$

**Nested Groups:** ^(IMG(\d)+)\.png$ where \d+ is a subgroup, mainly for complex data

**Conditional Pipe(|):** I love (cats|dogs)

**Anti-For everything:** \D, \S, \W, **\b** boundary b/w word and non-word character

**Back referencing: \0** usually the full matched text , **\1** (group 1) ,**\2** (group 2) for

Substituting and duplicate