# References/Research

## https://docs.python.org/2/library/re.html

* Regular expressions can be concatenated to form new regular expressions; if A and B are both regular expressions, then AB is also a regular expression. In general, if a string p matches A and another string q matches B, the string pq will match AB.
* This logic can be used in the project to build small NFA’s for the regular expression

**Characters that have a special meaning when using the re library**

|  |  |
| --- | --- |
| **Dot (.)** | Any character except a newline |
| **Caret (^)** | The start of a string |
| **Dollar ($)** | The end of a string |
| **Asterisk (\*)** | Match 0 or more repetitions as possible of the RE |
| **Plus (+)** | Match 1 or more repetitions as possible of the RE |
| **Question (?)** | Match 1 or 0 or more repetitions as possible of the RE |
| **Square Brackets ([])** | A set of characters |
| **Pipe (|)** | Either or |
| **Back slash (\)** | Special sequence |
| **Round Brackets ()** | A group |

**Functions used in the re library**

|  |  |
| --- | --- |
| **findall** | Returns list of all matches |
| **search** | Returns an object that if there’s a match in the string |
| **split** |  |
| **sub** |  |