Resources:

<https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Regular_Expressions>

<https://en.wikipedia.org/wiki/Regular_expression>

**Notes from coding train regex 2.2**

Literal characters - I want to match a literal letter ‘a’

Meta characters - a character of a particular kind

**Single character**:

\d = 0 - 9 (the d stands for digit)

\w = A-Za-z0-9 (the w stands for word)

\s = white space (a space or a tab) there are strange settings for line breaks that require flags

. = matches any character whatsoever ( dot character, it is a greedy matcher, so use carefully)

\W = anything that is not a word character

\S = any non-white space characer

**Quantifiers** - are metacharacters that modify the previous characters (they indicate how many of a single character you want to use)

\*is 0 or more (asterix)

+is 1 or more (at least one)

?is 0 or 1 (used for optional items like color or colour)

{min, max} curly brackets with minimum or maximum

{n} a single character n

Ex:

\w+ (one or more word characters in a row)

\w\d+ (word character followed by one or more digits)

colou?rs? = find literal characters colo followed optionally by u literal r followed by optional s

**Position** = a metacharacter that matches the position of a character in the string itself

^ = beginning of a line

$ = end of a line

\b = word boundary

Ex:

^\w+ = show all first words of at the beginning of a line

\w+$ = find all the last words of a line

^\w+$ = find words that are the first and last words of a line (a single word in a line)

\b\w{4}\b = word boundary, followed by four word characters followed by boundary

\b\w{4,6}\b = words between four and six characters

The boundary is the space in between a word and where it ends