

Name: Victor Nomwesigwa

Assignment: Regex

Write a regular expression that matches people's full names.

Describe in what situations your solution will fail.

- It is practically impossible to match everything, especially specifying that all names should start with capital letters
- some names e.g. John von Neumann have a middle name that starts with a small letter
- the other problem is some names have special characters in between eg Gordon-Levitt, this is hard to resolve in the same regular expression
- and the largest problem is how to differentiate a non-name word like the from a real name, this is difficult to resolve

Develop a regular expression that matches all gerunds within a text.

Describe in what situations your solution will fail.

- it will also fail if 'ing' is used as a single full word e.g. 'ing'
- it will fail if a word ending with 'ing' is not preceded by at least one vowel(a,e,i,o,u,y) beforehand e.g. sing and ping will fail.
- It will fail for words ending with 'ing' preceded by a double y e.g., 'yying'

Generate a regular expression that matches each capturing group in a (Python) regular expression

Describe in what situations your solution will fail

- It will fail for non-name capturing groups
- It will fail for non-capturing groups for example, "people" a single string something that does not start with and end with a parenthesis
- It will fail for capturing groups that start with a question mark followed by a bunch of characters that are not capital P e.g. (?p)