

Additional Regex commands

Today we are going to use our regexes in Notepad++. We are going to learn about boundaries and anchors first to help us.

The word boundary \b matches positions where one side is a word character (usually a letter, digit or underscore) and the other side is not a word character (for instance, it may be the beginning of the string or a space character).

The example \bcat\b will therefore only match with the word cat and not with the words tomcat or catfish. If we change it to \bcat, it will still match with cat, but it will also match with catfish.

Use the list below to test each of different combinations to see how they work.

catatonic cat black cat catfish tomcat certificate

In addition to \b for the boundaries, we also have two anchors worth knowing. These anchors check if the pattern is at the beginning or the end of a piece of text.

To check if it is at the beginning we use the ^ symbol. Remember that this is same symbol that can be used in [] to say not.

To check if the word is at the end of the sentence we use the \$ symbol.

Try using these symbols with the list above.



Using regexes in the real world

Use notepad++ and regexes to complete each of these tasks. You will need to reuse the sample text.

Lorem ipsum dolor sit sit amet, joe@gmail.com consectetur adipiscing elit. Donec et molestie risus, ac vulputate turpis. Maecenas hendrerit enim the the ac nisl 087-100-4543 viverra, in pellentesque diam sodales. Aliquam james@yahoo.com dui dui ac massa maximus tincidunt. Maecenas et et malesuada risus. Aliquam (084 123 4522) vitae dignissim 0826584393 eu non non ipsum. jane_doe123@hotmail.com eget fringilla nulla. 1000 Sed at @aoc luctus orci.

- 1. Change all phone numbers in the text to *.
- 2. Change all email addresses in the text to \$.
- 3. Remove all of the vowels in the text and replace with #.
- 4. Change words that end in s to words that end es. Avoid ending a word in ees.
- 5. Change the first word in each line to THE. You can use the ^ symbol to match the start of a line.
- 6. Add END to the end of each line. You can use the \$ symbol to match the end of a line.
- 7. Remove duplicated words right after each other. E.g. the the and replace with one instance of the word.



Using regexes in the real world

Use notepad++ and regexes to complete each of these tasks. You will need to reuse the sample text.

```
<root>
<language>
  <catch>rush</catch>
  <molecular>almost</molecular>
  <funny>population</funny>
  #<positive>getting</positive>
  <lower>
   #<able>stopped</able>
   <union>1070380968</union>
   #<parts>1750477936</parts>
  </lower>
  <wave>1537085162.9553623</wave>
</language>
#<fair>attached</fair>
<whatever>-506540167.75162697</whatever>
<man>spread</man>
<farther>car</farther>
liquid>1792049459
</root>
```

- 1. Change comments from # to //
- 2. Remove the comments
- 3. Remove all tags. You may need to use lazy match (?).
- 4. Match lines containing opening and closing tags. Add a second set <> around each tag.

Additional Resources

Games

- https://regexcrossword.com/ nice range Recommended
- https://alf.nu/RegexGolf very difficult

Regular Expression

https://regex101.com/

Cheat sheets and generators

- https://www.rexegg.com/regex-quickstart.html Recommended
- https://ihateregex.io/
- https://medium.com/factory-mind/regex-tutorial-a-simple-cheatsheet-by-examples-649dc1c3f285
- https://medium.com/factory-mind/regex-cookbook-most-wanted-regex-aa721558c3c1
- https://onlinerandomtools.com/generate-random-xml
- https://www.lipsum.com/feed/html Random text generator

More info

- https://www.rexegg.com/ Recommended
- https://www.regular-expressions.info/ Recommended
- https://regexone.com/
- https://javascript.info/regular-expressions
- https://realpython.com/regex-python/
- https://www.sitepoint.com/demystifying-regex-with-practical-examples/

Practice

- https://www.hackerrank.com/domains/regex HackerRank Regex questions and explanations Recommended
- https://regex101.com/quiz Sign up required May be a little difficult
- https://regex.sketchengine.co.uk/

Miscellaneous

- https://blogtitle.github.io/regexp-fun/
- https://frontend.turing.io/lessons/module-3/regex-fun-times.html
- https://www.loggly.com/blog/regexes-the-bad-better-best/
- https://medium.com/smelly-code/level-up-your-regex-game-39b0b56fef2a

Video Explanation

https://www.voutube.com/watch?v=7DG3kCDx53c&list=PLRgwX-V7Uu6YEvpLuls7iidwHMdCM6o2w