Exercises

Download the dictionary from benschmidt.org/words.txt and load it into a text editor.

Searches

- 1. The word "picalilli" contains five consecutive "l" or "i" letters. What word contains 6 consecutive "i" or "ls"?
- 2. What is the longest substring of your name for which a word contains all the matches? For example, my name is "Ben Schmidt" and I can match the first five letters with the capitalized letters in the word BirkENStoCk. What is the regex for it?
- 3. What dictionary words contain the same letter, three times in a row?
- 4. Besides the word found in question 1, are there any other words in the dictionary that contain two identical letters 6 times in a row? 7 times in a row?

Replacements

5. Design a regex that replaces the text strings "NU" and "NEU" with the word "Northeastern." **For example,** it would transform

```
The NU huskies are competing in Thursday's game: email m.meehan@husky.neu.edu for more information.
```

into

The Northeastern huskies are competing in Thursday's game: email m.meehan@husky.Northeastern.edu for more information.

- 6. Improve your regex so that it doesn't replace strings that are part of longer words; for example, it should not replace "entrepreneur" with "entrepreNortheaternr".
- 7. Sometimes documents have excessive spaces in them. (For instance, if you copy and paste from the Internet). Write a regex that reduces any string of spaces down to just one. **For example,** this text:

```
Good day, everyone.

1 4 6

3 4 10

Good night, ladies
```

Would be reduced to:

```
Good day, everyone. 1 4 6 3 4 10 Good night, ladies
```

8. Write a regex that changes the spelling of all words in a document so that they conform to the rule "I before e, except after c."

Concordances

An online version of the bible is at dighist15.benschmidt.org/bible. It allows you to filter and replace at once on the bible. This may take some time to run, so it initially will only show values for the book of Matthew.

- 9. Create a regex that reduces the bible to a concordance for the word "love" that shows 3 words before and 3 words after.
- 10. Edit that regex so that it includes the book/line/verse number as the beginning.