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Topic: Lecture 8 Source: Lecture 8

Why should you get into the habit of using "with open()"? Are there any downsides? (1)

Topic: Lecture 7 Source: Lecture 7

In class, we built a POS tagger that tries to give a majority tag to a word; if it's out-of-vocabulary, it backs-off to Regexes. This is clearly overly simplistic. List two assumptions that are being violated by this model. (1)

Topic: Lecture 6 Source: Lecture 6

XML can be opened by most plain-text text editors. Name a benefit and a disadvantage of this feature. (1)

Topic: Lecture 7 Source: Lecture 7

Can you think of any classes of words in English where the stem and the lemma will always be identical? Why is that of little interest to us? (1)

Topic: Lecture 6 Source: Lecture 6

Why is XML well-suited to representing linguistic data? (1)

Topic: Lecture 5 Source: Lecture 5

Imagine we have a spell-checker that can identify common misspellings of words by replacing certain letters with a capture group that contains letters that are nearby on the keyboard. How aggressive of a regex would we want to write for this (ie, how many letters in the word would we want to replace with a group)? Explain. (2)

Topic: Lecture 5 Source: Lecture 5

Imagine you are processing a text document where dates are written in multiple formats, such as "12-05-2024", "05/12/2024", or "12 December 2024". How would you write a regex to capture these date formats (just the logic)? What assumptions would you make? (2)

${\bf Question} \ 8$

Topic: Lecture 8 Source: Lecture 8

Imagine that you're working with a linguist who is not very good with technology. They store all of their data in .docx files, scattered across their desktop. What arguments would you make for them to convert to .tsv or .json, and how would you alleviate their worries that they wouldn't be able to access or modify their information (no, you can't teach them Python)? (2)

Topic: Long

Source: Lecture 8

Imagine that you find an important file buried on a hard drive found in the basement of a university. You are trying to access the data, but realize it is corrupted. Some of the bits have been flipped (switched from 0 to 1, or 1 to 0), and others have been completely deleted. You don't know the encoding, and you don't know the language the data is written in. What are some tests you could run to try to establish and restore at least some of the data? (Hint: remember that a "byte" is 8-bits, and that UTF-8 is 1 byte, or 8 bits, UTF-16 is 2 bytes, or 16 bits, and UTF-32 is 4 bytes, or 32 bits). (3)

END OF QUIZ