ner_fuhrer.py Interface Testing

Test Case Format:

In>Console Input Out>Console Output Notes/Unexpected Behavior (if any)

Note: All test cases' outputs matched expected output unless otherwise stated.

Base Cases – Showcase the operation of each interface function

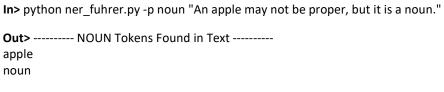
No argu

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No arguments:	
1	In> python ner_fuhrer.py
	Out> Grier-NER is a Python Named Entity Recognition (NER) project for Grier Forensics 2021 Intern Software Engineer coding challenge (Rest of output is omitted to save space)
Default Interpreter w/ Text:	
1	In> python ner_fuhrer.py "My name is Sir Lancelot of Camelot."
(Out> PROPN Tokens Found in Text Camelot Lancelot Sir
<u>Default Interpreter w/ File:</u>	
1	In> python ner_fuhrer.py -f ./tests/test-simple.txt
, - 	Out> PROPN Tokens Found in Text Apple Dave Julie Mr. Wall

Default Interpreter w/ Website:

In> python ner_fuhrer.py -web https://poestories.com/read/annie for-annie.txt Out> ----- PROPN Tokens Found in Text -----Allan Annie Design215 Edgar (Rest of output is omitted to save space)

Interpreter parsing for all nouns:



German Interpreter w/ File:

In> python ner_fuhrer.py -l german -f ./tests/test-german-simple.txt

Out> ------ PROPN Tokens Found in Text ----
Apple

Dave

Mauer

Noel

Write output to file:

In> python ner_fuhrer.py -f ./tests/test-simple.txt -w simple-named-entities.txt

Out> ------ PROPN Tokens Found in Text ----
Apple
Dave
Mr.
Noel
Wall

simple-named-entities.txt contents:

Apple Dave Mr. Noel Wall

Edge Cases – Showcase interface's ability to handle unexpected inputs

File Read - Not enough arguments:

In> python ner_fuhrer.py -f

Out> Parse error: "-f" needs one argument; none were given.

In> python ner_fuhrer.py -f -a

Out> Parse error: "-f" needs one argument; none were given.

(Note: interface correctly recognizes flags as invalid arguments)

File Read – Multiple Flags:

In> python ner_fuhrer.py -f ./tests/test-simple.txt -f ./tests/test-german-essay.txt

Out> Parse error: Multiple instances of "-f"

<u>File Read – Web flag already called:</u>

In> python ner_fuhrer.py -web google.com google.txt -f ./tests/test-simple.txt

Out> Parse error: "-f" cannot read file. Already specified a website to read from.

Web Read – Not enough arguments:

In> python ner_fuhrer.py -web

Out> Parse error: "-web" needs two arguments: website and filename.

In> python ner_fuhrer.py -web google.com

Out> Parse error: "-web" needs two arguments: website and filename.

In> python ner_fuhrer.py -web -p adjective

Out> Parse error: "-web" needs two arguments: website and filename.

(Note: interface correctly recognizes flags as invalid arguments)

Web Read – Multiple Flags:

In> python ner_fuhrer.py -web google.com google.txt -web twitter.com twitter.txt

Out> Parse error: Multiple instances of "-web"

Web Read – Read flag already called:

In> python ner_fuhrer.py -f ./tests/test-simple.txt -web google.com google.txt

Out> Parse error: "-web" cannot read site. Already specified a file to read from.

Part-Of-Speech Flag – Invalid POS:

In> python ner_fuhrer.py -p super-noun "This is a test sentence."

Out> Parse error: Given part-of-speech was not recognized.

<u>Language Flag – Invalid Language:</u>

In> python ner_fuhrer.py -l pig_latin "l-way eak-spay Atin-lay."

Out> Parse error: Given language was not recognized.

File write – Not enough arguments:

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In> python ner_fuhrer.py -w
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Out> Parse error: "-w" needs one argument; none were given.

In> python ner_fuhrer.py -w -l french

Out> Parse error: "-w" needs one argument; none were given.

(Note: interface correctly recognizes flags as invalid arguments)

File write – Multiple Flags:

In> python ner_fuhrer.py -w here.txt -w no-here.txt "Which do I save to?"

Out> Parse error: Multiple instances of "-w"

Text argument with File read:

In> python ner_fuhrer.py -f ./tests/test-simple.txt "Extraneous text."

Out> Parse warning: cannot parse text and file/website. Ignoring text and any arguments after.

----- PROPN Tokens Found in Text -----

Apple

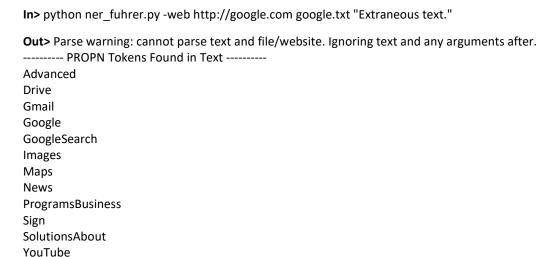
Dave

Mr.

Noel

Wall

Text argument with Web read:



Text argument with flags after:

In> python ner_fuhrer.py "Dieses Satz ist auf Deutsch, aber das Programm weiß das nicht." -l
german

Out> Parse warning: arguments after read text have been ignored.
------ PROPN Tokens Found in Text ----Deutsch
Dieses
Programm
Satz
auf

(Note: model incorrectly labeled Named Entities because the language was not set, as the language flag came after the provided text.)