

ner_fuhrer.py Interface Testing

2021-03-31

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 arguments:

In> python ner_fuhrer.py

Out> ----- Grier-NER -----

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:

In> python ner_fuhrer.py "My name is Sir Lancelot of Camelot."

Out> ----- PROPON Tokens Found in Text -----

Camelot
Lancelot
Sir

Default Interpreter w/ File:

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

Out> ----- PROPON 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> ----- PROPON Tokens Found in Text -----

Allan
Annie
Design215
Edgar
(Rest of output is omitted to save space)

Interpreter parsing for all nouns:

In> python ner_fuhrer.py -p noun "An apple may not be proper, but it is a noun."

Out> ----- NOUN Tokens Found in Text -----

apple

noun

German Interpreter w/ File:

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

Out> ----- PROPON 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> ----- PROPON 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"

File Read – Web flag already called:

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.

Language Flag – Invalid Language:

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

Out> Parse error: Given language was not recognized.

File write – Not enough arguments:

In> python ner_fuhrer.py -w

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.

----- PROPON Tokens Found in Text -----

Apple

Dave

Mr.

Noel

Wall

Text argument with Web read:

In> python ner_fuhrer.py -web http://google.com google.txt "Extraneous text."

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

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

Advanced

Drive

Gmail

Google

GoogleSearch

Images

Maps

News

ProgramsBusiness

Sign

SolutionsAbout

YouTube

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.)