

Conflict with Grader

To avoid getting an error from the grader about using the class variables `title`, `subject`, or `summary`, rename any variable you have used with these names to something else. Thank you!

PART II: PHRASE TRIGGERS (5/5 points)

PHRASE TRIGGERS

At this point, you have no way of writing a trigger that matches on "New York City" -- the only triggers you know how to write would be a trigger that would fire on "New" AND "York" AND "City" -- which also fires on the phrase "New students at York University love the city". It's time to fix this. Since here you're asking for an exact match, we will require that the cases match, but we'll be a little more flexible on word matching. So, "New York City" will match:

- New York City sees movie premiere
- In the heart of New York City's famous cafe
- New York City random text to prove a point here

but will not match:

- I love new york city
- I love New York City!!!!!!!!!!!!!!

PROBLEM 9

Implement a phrase trigger (`PhraseTrigger`) that fires when a given phrase is in **any** of the story's subject, title, or summary. The phrase should be an argument to the class's constructor. You may find the Python operator `in` helpful, as in:

```
>>> print "New York City" in "In the heart of New York City's famous cafe"
True
>>> print "New York City" in "I love new york city"
False
```

When this is done, the `PhraseTrigger` unit tests should pass.

Canopy specific instructions: Every time you modify code in `ps7.py` go to

Run -> Restart Kernel (or hit the CTRL with the dot on your keyboard)

before running `ps7_test.py`. **You have to do this every time you modify the file `ps7.py` and want to run the file `ps7_test.py`**, otherwise changes to the former will not be incorporated in the latter.

Note: In addition to the class in this problem (`PhraseTrigger`), please provide your definitions of `WordTrigger` , `TitleTrigger` , `SubjectTrigger` , and `SummaryTrigger` in the following box.

```
1 # Enter your code for WordTrigger, TitleTrigger,
2 # SubjectTrigger, SummaryTrigger, and PhraseTrigger in this box
3 # TODO: WordTrigger
4
5 class WordTrigger(Trigger):
6
7     def __init__(self, word):
8         self.word = word
9
10     def isMatch(self, text):
```

Correct

Test results

Hide output

CORRECT

Test: PhraseTrigger Should Fire

Output:

```
PhraseTrigger('Angela Merkel')
Evaluating story with title 'Angela Merkel Meets With World Leaders': True
Evaluating story with subject 'xcvoiwnadaAngela Merkelaoiubazxcvoup': True
Evaluating story with summary '!?!?!Angela Merkel!?!!.': True
```

```
PhraseTrigger('Panama canal')
Evaluating story with subject '?!Panama canal!aobiuadsf': True
Evaluating story with summary 'The Panama canal sees massively increased traffic in past 10
years.': True
```

Test: PhraseTrigger Should Not Fire

Output:

```
PhraseTrigger('Panama canal')
Evaluating story with title 'Construction To Widen Panama Canal Begins': False
Evaluating story with subject 'Panama. canal.': False
Evaluating story with summary 'Panama's canal sees massively increased traffic in past 10 years.':
False
```

```
PhraseTrigger('Angela Merkel')
Evaluating story with subject '?!AngelaMerkel!!': False
Evaluating story with summary 'Today, ANGELA MERKEL announced a new coalition between GERMAN
political parties.': False
```

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