

Part 3: Filtering

(10/10 points)

At this point, you can run `ps7.py`, and it will fetch and display Google and Yahoo news items for you in little pop-up windows. How many news items? *All of them.*

Right now, the code we've given you in `ps7.py` gets all of the feeds every minute, and displays the result. This is nice, but, remember, the goal here was to filter out only the the stories we wanted.

PROBLEM 10

Write a function, `filterStories(stories, triggerlist)` that takes in a list of news stories and a list of triggers, and returns a list of only the stories for which *any* of the triggers fires on. The list of stories should be unique - that is, do not include any duplicates in the list. For example, if 2 triggers fire on StoryA, only include StoryA in the list one time.

After completing Problem 10, run the file `ps7_test.py`. All the tests should now 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.

Also after completing Problem 10, you can try running `ps7.py`, and various RSS news items should pop up, filtered by some hard-coded triggers defined for you in some code near the bottom. The code runs an infinite loop, checking the RSS feed for new stories every 60 seconds. Press "Exit" at the bottom of the popup window to exit out of the program.

Note: In addition to the function `filterStories`, please provide your definitions of `WordTrigger`, `TitleTrigger`, `SubjectTrigger`, `SummaryTrigger`, and `PhraseTrigger` in the following box.

```
1 class WordTrigger(Trigger):  
2     def __init__(self, word):
```