Your task is to do the following:

1. Add functions to your labs 2, 3 and 4 to present your results using plots. The form and contents of plots are up to you. Choose plots that best illustrate the interesting variables found by your programs, namely areas, number of line intersections, and word frequencies.

2. Taking the program `lab5_demo.py` as a starting point, write a program to retrieve and plot the frequencies of words or phrases searched in Google as a function of time. Then run your program on some words or phrases and write a paragraph describing the trends you can identify by looking at the plot. Choose your words as follows:
   (a) Two words of phrases related to neuroscience.
   (b) Two words of phrases related to other sciences.
   (c) Two other words of phrases of your choice.

3. Given a five-minute oral presentation of your results from item 2. Prepare a slide showing each of your plots and your observations. Presentations are scheduled for Monday, November 26.

4. Write a report including (at least) the following items:
   (a) Problem description.
   (b) Algorithms implemented.
   (c) Experimental results. Show a few instances of images output by your program and messages printed to the screen.
   (d) Discussion of results. Do the algorithms work as expected? Why or why not?
   (e) Conclusions. Describe what you learned, what was challenging, what was interesting, what was boring, etc.
   (f) Appendix: Source code; make sure it is adequately documented.