## Homework \#I

Google Trends is pretty awesome, except that on the site you cannot do more than overlay plots. Here we'll play with search term data downloaded from Google and draw our own conclusions.
I. Use trends.csv file and matplotlib.pylab.csv2rec to import the data and reproduce this plot:


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2. determine in which week of each year (for all five search trends including "global warming") that search reached its peak and its minimum. Are there any trends you can spot with any of the terms?
3. which term has the largest scatter about it's median value? which term has the smallest scatter?
4. Determine the time lag, in units of weeks, that maximizes the cross-correlation between "skiing" and "spring break". Do this also for "skiing" and "global warming"
5. Download trend data on two terms of your choosing and redo the questions above http://www.google.com/insights/search/\#

## Hints:

## I. you might start your script with:

import matplotlib
from matplotlib.pylab import csv2rec,plot,legend
2. numpy has tools for cross-correlation
result = numpy.correlate(a['spring_break'],a['spring_break'], mode='full') plot(arange(result.size) - result.size/2,result)

## BTW...Python jobs are in growing demand...

## Job Trends

Job Trends
Job Postings Per Capita Job Market Competition Industry Employment Trends
python, java, IDL, matlab Job Trends

Scale: Absolute - Relative

Job Trends from Indeed.com

- python - java - IDL — matlab


Indeed.com searches millions of jobs from thousands of job sites.
This iob trends araph shows relative arowth for iobs we find matchina vour search terms.

