OVERVIEW

This lab reviews the linear algebra and Python necessary to successfully complete this course.

The lab is due July 11, 2015 at 07:00 UTC. There is a three day grace period for late submissions until July 14, 2015 at 07:00 UTC. Submissions after that time will lose 20 points.

NOTEBOOK DOWNLOAD

The notebook can be found on GitHub at the following link: [Lab1 Review](https://raw.githubusercontent.com/spark-mooc/mooc-setup/master/ML_lab1_review_student.ipynb).

When working on these notebooks, out of respect for current (and future) students taking this course, please**do not store your solutions in publicly visible repositories** such as GitHub.  Similarly, please**do not post code snippets on Piazza**.

VIEW NOTEBOOK

GitHub automatically renders IPython notebooks.  To view the notebook follow this GitHub link: [Lab1 Review](https://github.com/spark-mooc/mooc-setup/blob/master/ML_lab1_review_student.ipynb).  Note: this link should not be used to download the notebook.  Use the raw link in the Notebook Download section when downloading.

DETAILED INSTRUCTIONS FOR RUNNING NOTEBOOKS IN VM

1. Start the VM - To start the VM, from a DOS prompt (Windows) or Terminal (Mac/Linux), issue the command "vagrant up", while in the custom directory created for this course (you should have created this directory as part of the Week 0 segment on "Downloading and Installing the VM Image").
2. Once the VM is running, access the Jupyter web UI for running IPython notebooks by navigating your web browser to "<http://localhost:8001/>" (or "<http://127.0.0.1:8001/>").
3. Shut down any notebooks you have running, as only **ONE** notebook should run at a time.  Running notebooks have a green icon to the left of the notebook name and green text to the right of the screen that says "Running".  Shutdown running notebooks by clicking the checkbox next to the notebook and then clicking the orange "Shutdown" button.
4. Download the Lab1 IPython notebook.  **Make sure that the file extension is .ipynb**.  If the download adds an extension (e.g. ".txt"), rename the file so that the extension is just .ipynb.
   * Lab1 Math and Python Review: <https://raw.githubusercontent.com/spark-mooc/mooc-setup/master/ML_lab1_review_student.ipynb>.
5. Upload the IPython notebook.  This process was explained during "Setting up the Course Software Environment" in the Week 0 courseware.
6. For the **Lab1 Math and Python Review** notebook, please follow the instructions in the notebook and replace <FILL IN> sections with your solutions, and submit to the autograder, following the same [guidelines](https://courses.edx.org/courses/BerkeleyX/CS190.1x/1T2015/wiki/BerkeleyX.CS190.1x.1T2015/autograder/) as in previous weeks.
7. When you have submitted successfully, you can shutdown the VM by issuing the command "vagrant halt".