Assignment # 1, CSCI 480 Fall 2015

Due date: Wednesday, Oct 14, midnight.

- Implement a value noise function in python as outlined in the lecture notes and on the "Perlin Noise" website which actually discusses value noise, and not true Perlin noise: http://freespace.virgin.net/hugo.elias/models/m_perlin.htm
- Use a shuffled array for random numbers rather than a pseudo-random number generator like the one on the website.
- Implement a pink noise function which uses your value noise function.
- Use the pink noise function, together with the framework for making images I gave you in pygamecolors.py, to make some cool pictures.
 - Try to be creative! Make marble, dirt, clouds, landscapes, something interesting!
- Write modular, well-documented code. Some of you are new at Python, so I don't expect objects/etc. However, decomposing the main algorithm into intelligible pieces is mandatory.
- Create a main.py folder (it can be your entire program, if you like), which, when run, will open a pygame window and create your most interesting image. This will save me time grading and trying to figure out the parameters I need to call your function, etc.
- Zip your code and best images together (don't use tar or anything else—I will be writing scripts to unzip and then run main.py) and submit to Canvas by the due date.