

Project 0

I ran my code on 3 different images:

1. 'input1.jpg' that was included in the HW files to compare the results
2. 'coaster.jpg'
3. 'ducks.jpg'

I ran the program with various different parameters. The output images are saved in the outputs folder of the homework zip while the original images are in the images folder.

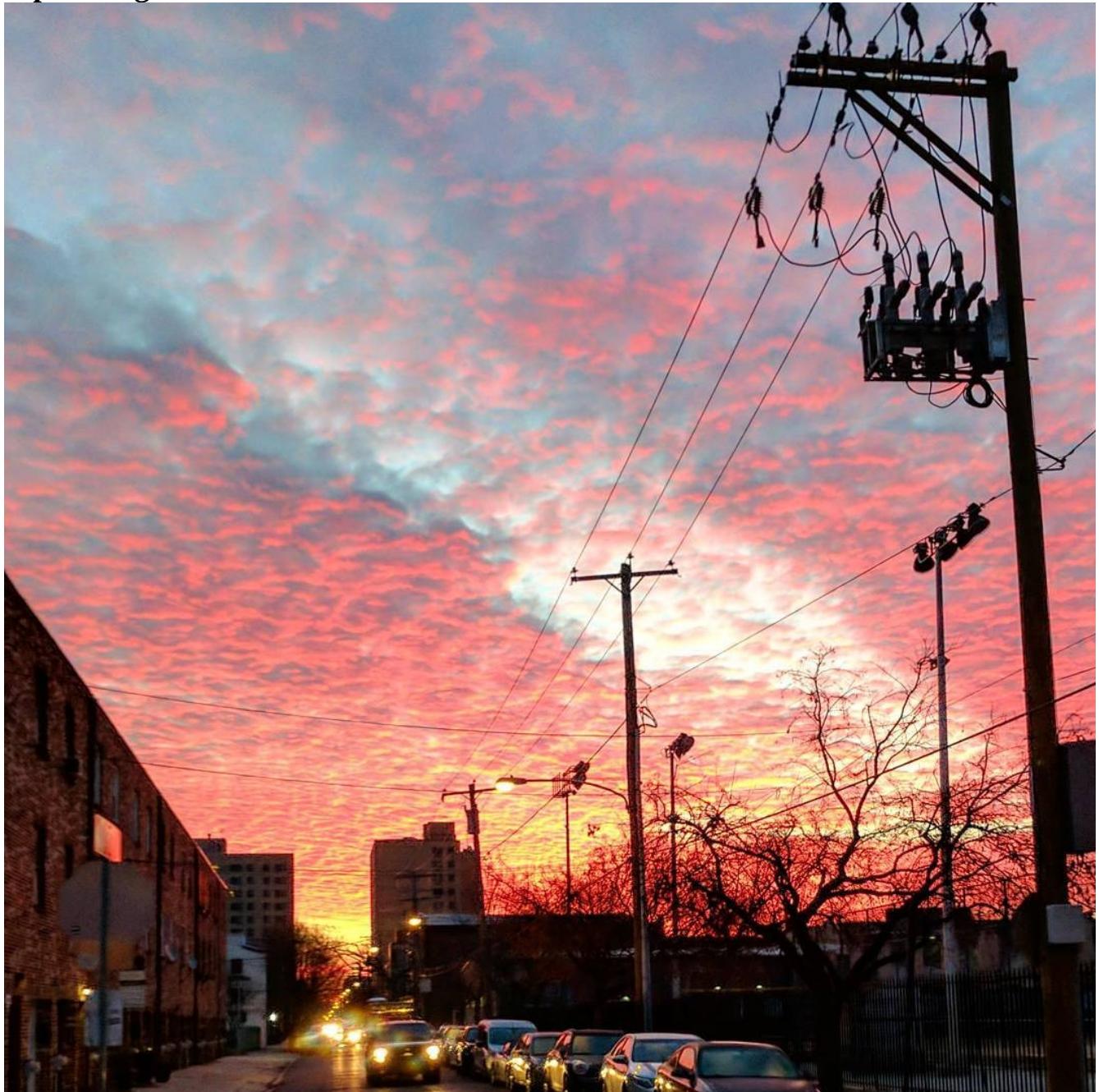
The functions that increase the value of the image darken the image, while those that lower it lighten it.

The thing I struggled with was that the project skeleton said log inverse is $\log(1 - \text{inputchannel})$, this gave me an incorrect output and all my searches showed me that the inverse of log is $\exp()$. I'm not sure if I misunderstood something or if the comment was incorrect.

Also, for npow it says parse arguments to find n and then "# compute inputChannel to the power of x". I assume 'x' was a typo and it was supposed to be 'n'.

In powerLaw since C is provided as a parameter, I assumed we did not need to scale result channel to 0 to 1.

Pictures:
Input images



Input1

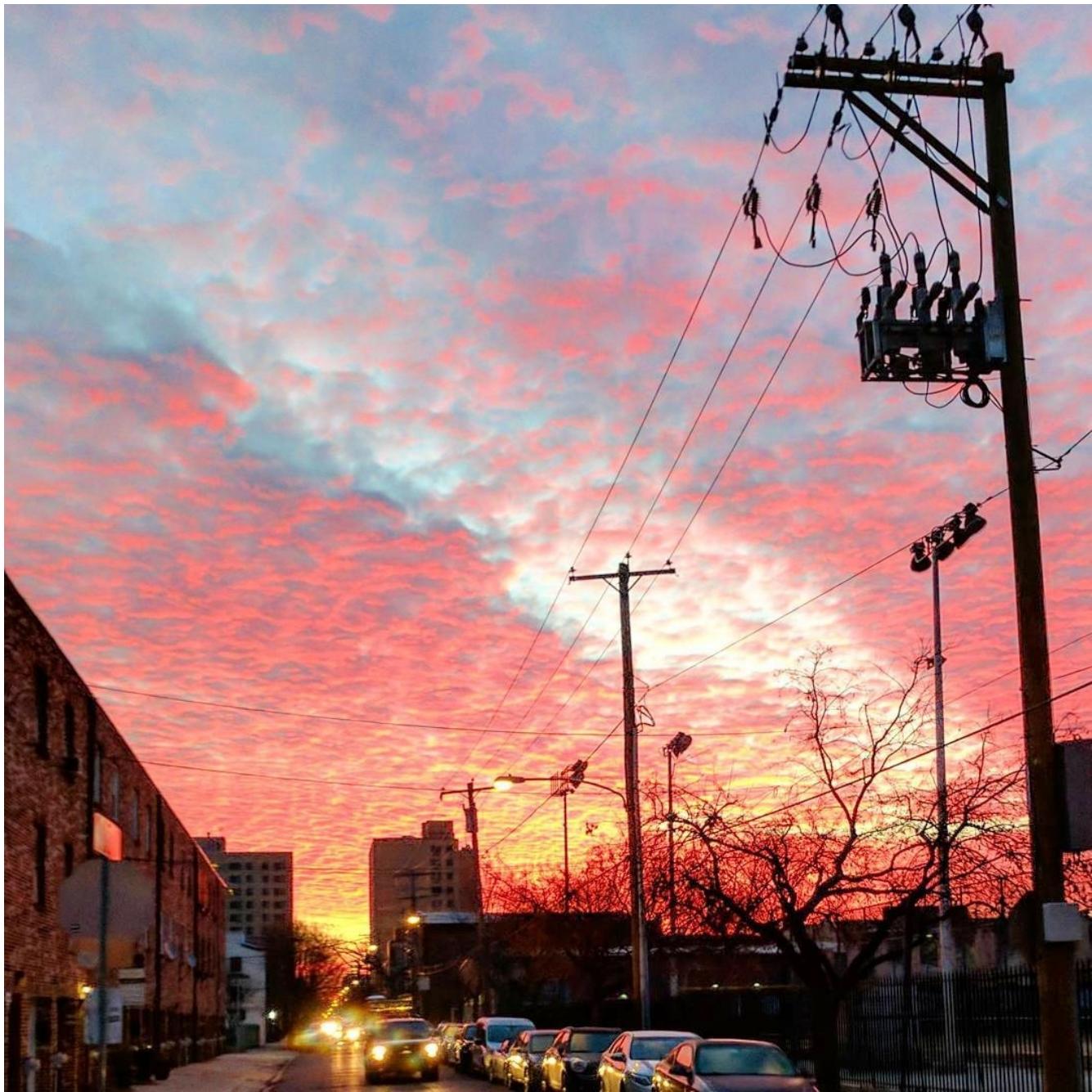


Coaster



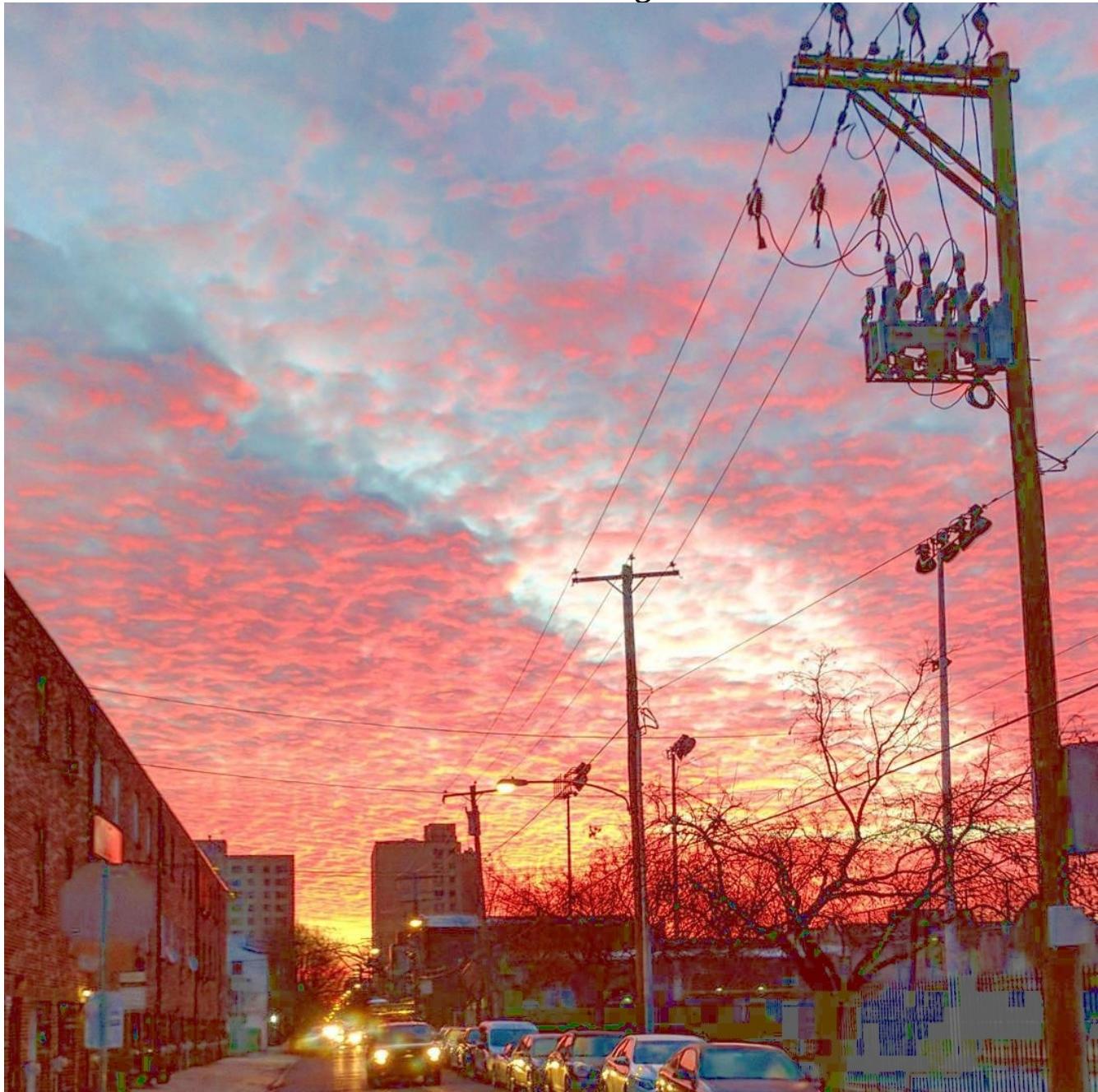
Ducks

Output Images:
1. LOG



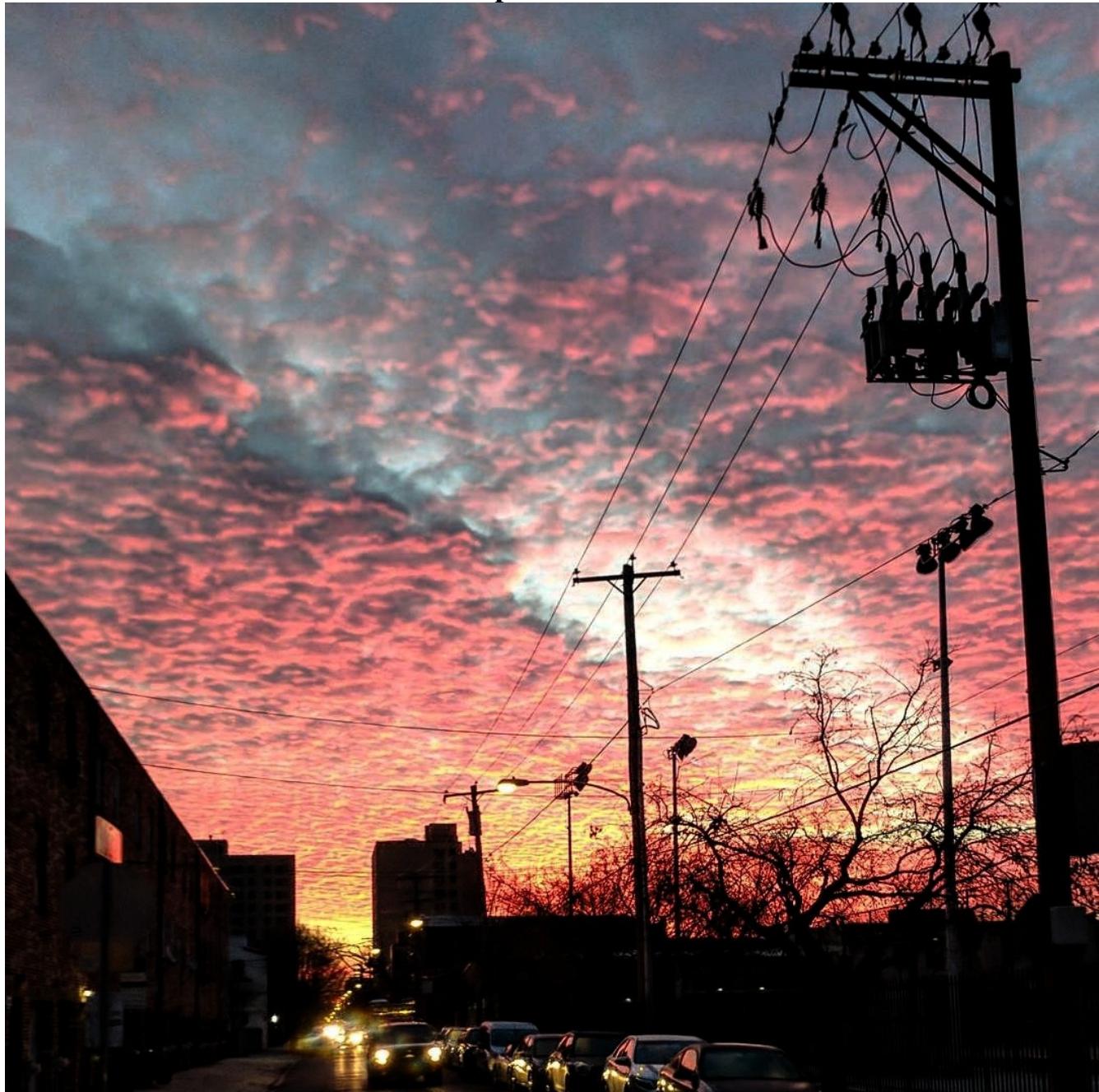


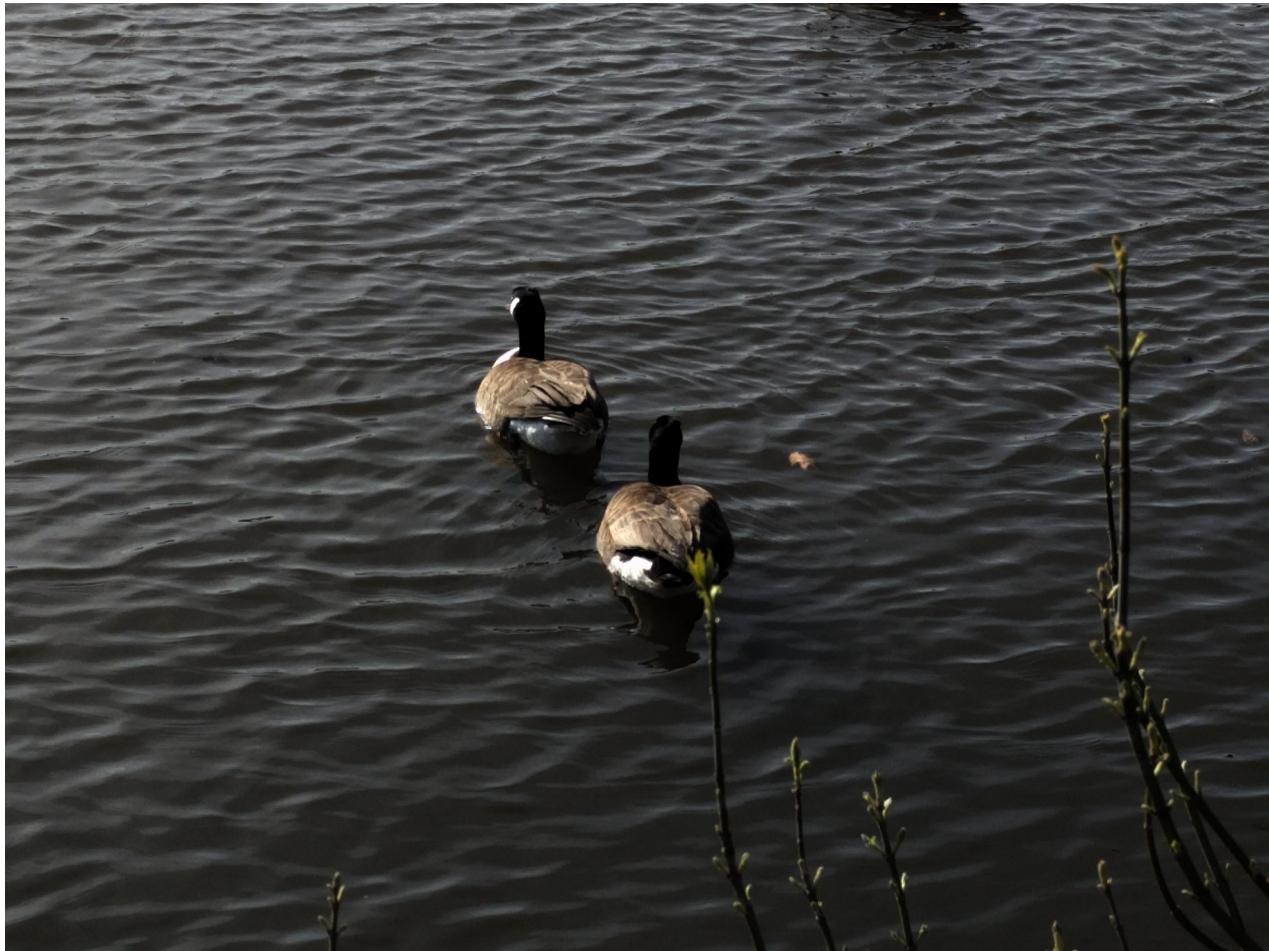
2. Inverse Log



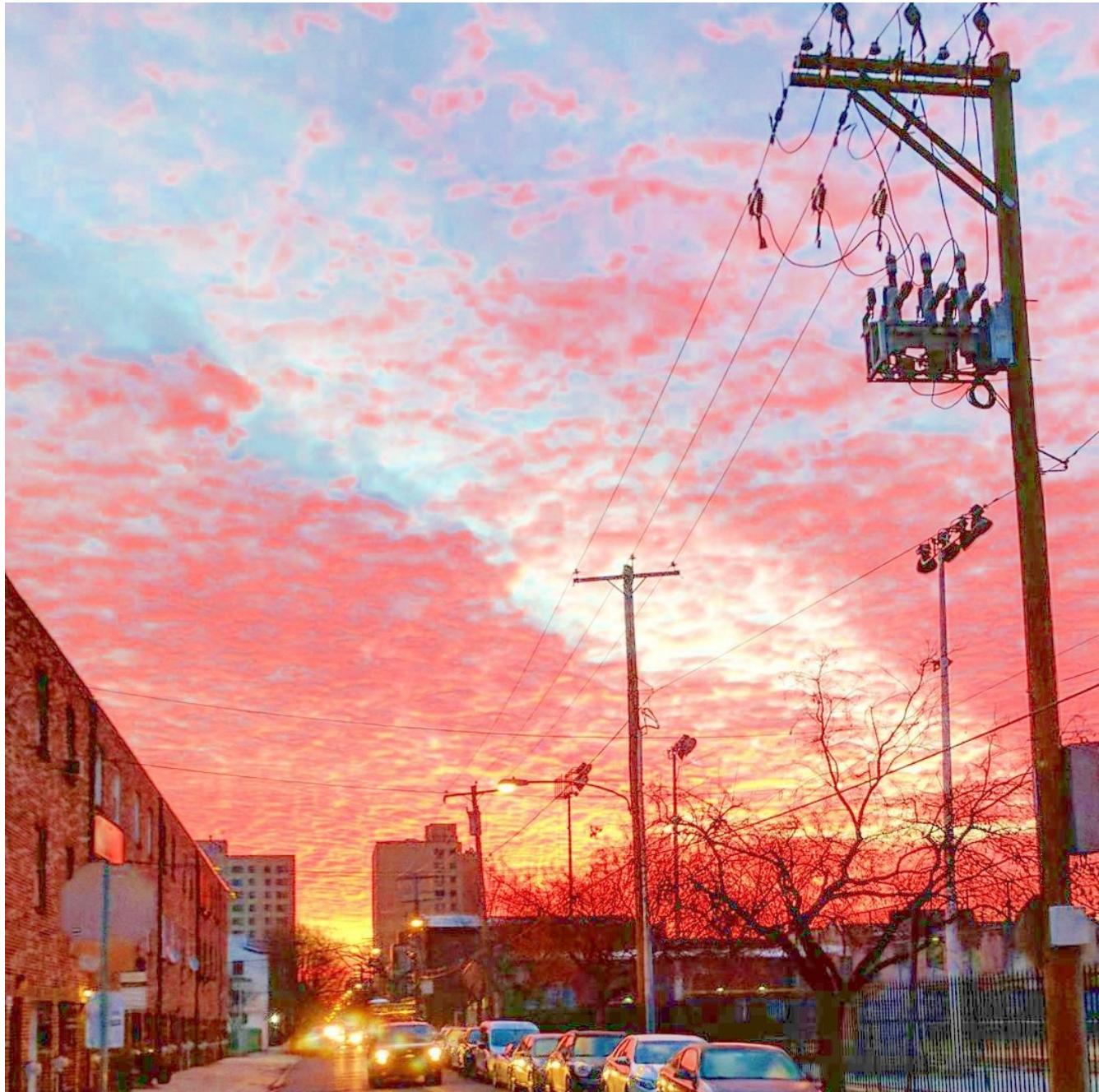


3. power to 2





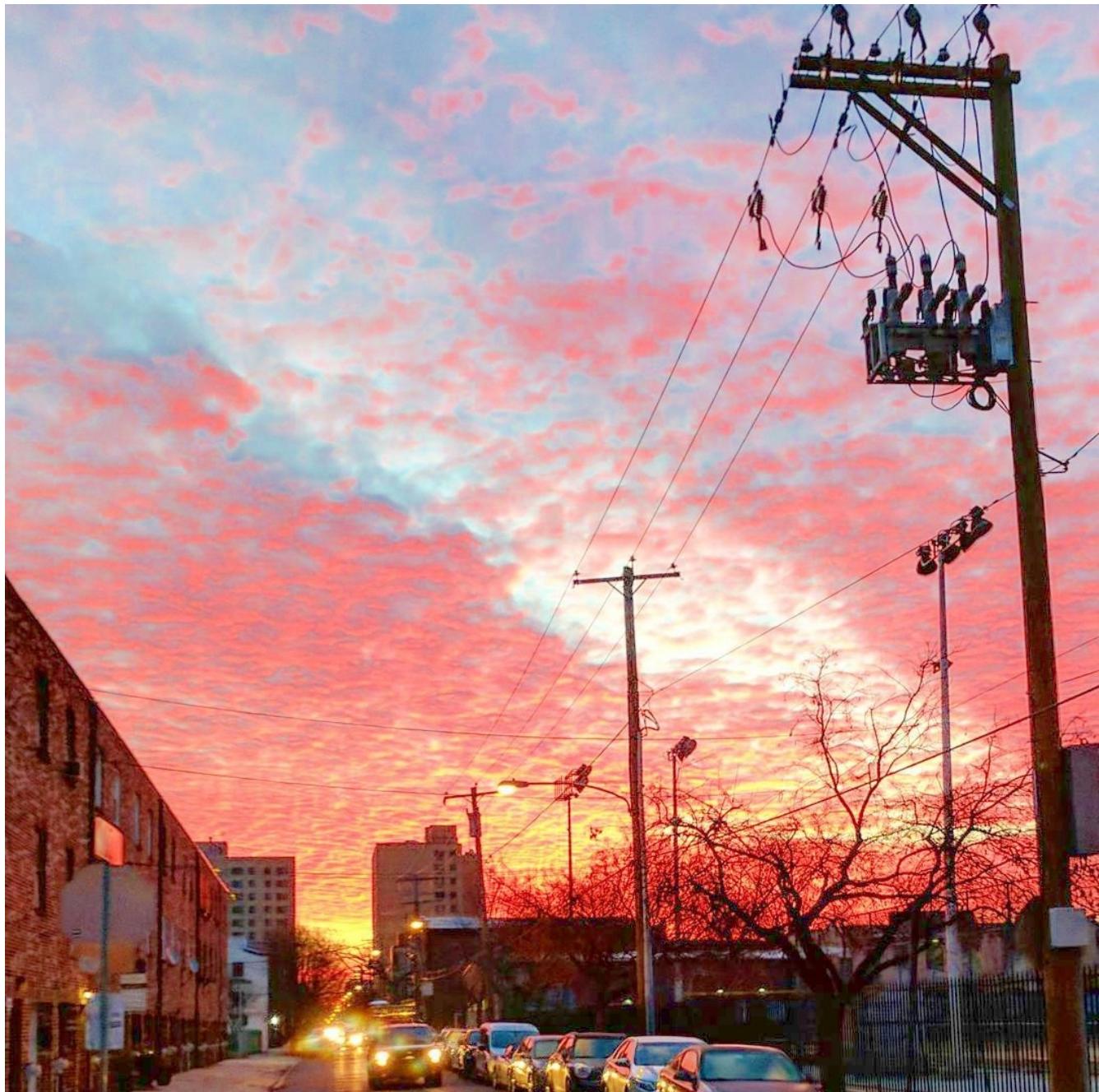
4. Power to 3



5. Power to 4



6. Root two

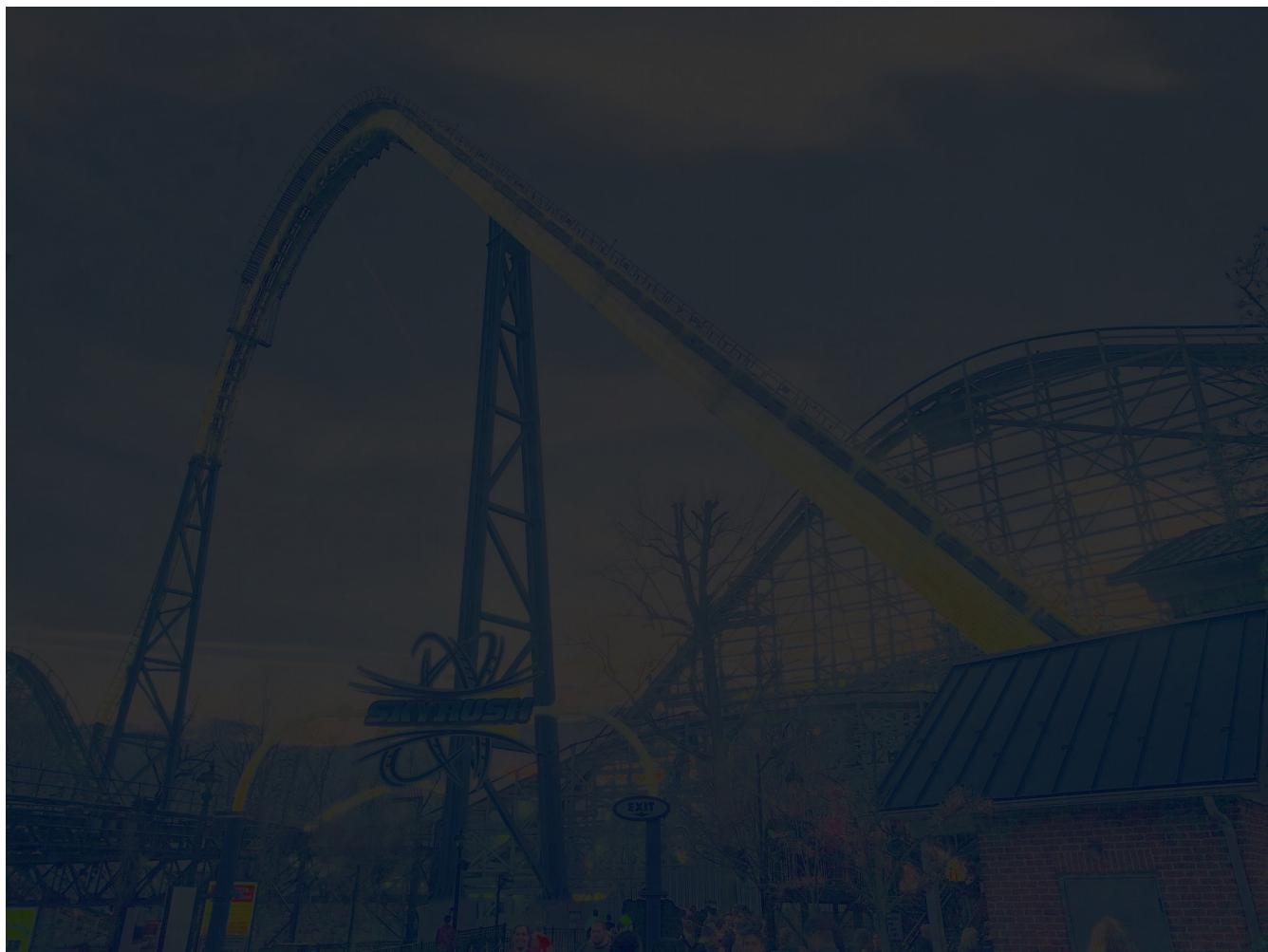




7. Root 4



8. Powerlaw 0.2 0.05



9. Powerlaw 1 0.02



11. Powerlaw 2 2 (not scaled)



12. Negatives



