Homework5

Corley Herman

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Question 1i:
The higher the n_colors, the more detail appears in the resulting image. When the n_colors are lower, the resulting image is blended a bit more. The reason behind this is because n_colors is basically setting the amount of colors used to draw the image, so when it has a wider palette of colors, it gains the option to add more details through the slight variance of the colors.

Question 1ii:
It could be used as a filter for cameras. There are filters that do something like this already, actually, if I'm not mistaken. That's all I can think of at the moment.

Question 1iii:
I think the resulting picture chosen is funny because I find a certain humor in an image that can be drawn decently while only using 2 colors.

Question 2A:
Ran this multiple times and then submitted them on the forms because I got ahead of myself. The results each time had eta at 0.1, but the neurons varied from 19 to 30 during these tests.

Question 2C:
As I mentioned in the last one, I submitted multiple entries before realizing my mistake. For the google form, the only answer that had N=1000 was 95 neurons with an eta of 0.1