PS1-3: Gamma Correction:

CODE:

The given code is used to apply gamma correction to an image taken as input.

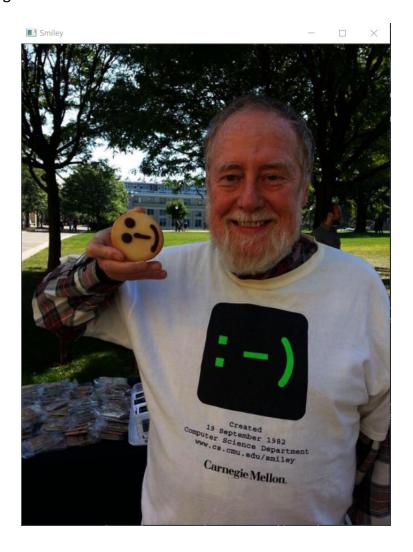
After accepting the gamma value, it is inverted and is used to resize each pixel of the input image to [0,1]. After scaling and applying the gamma value, it is rescaled and stored in an array called "t".

A look up table is used to map each pixel of the original image to its gamma corrected value.

The Images are rescaled to fit the screen and the displayed.

Image 1: Smiley.jpg

Original Image:



Gamma Corrected Image(Gamma: 2):

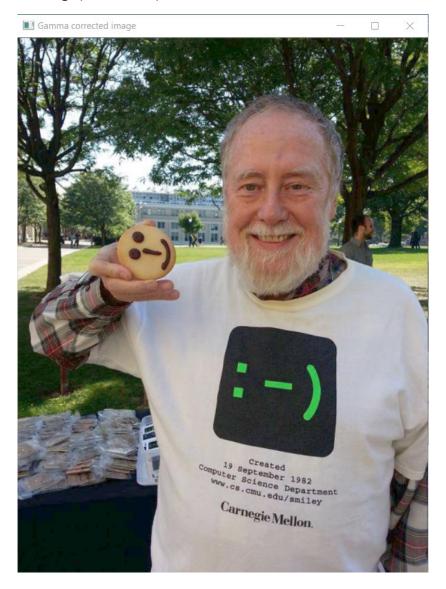
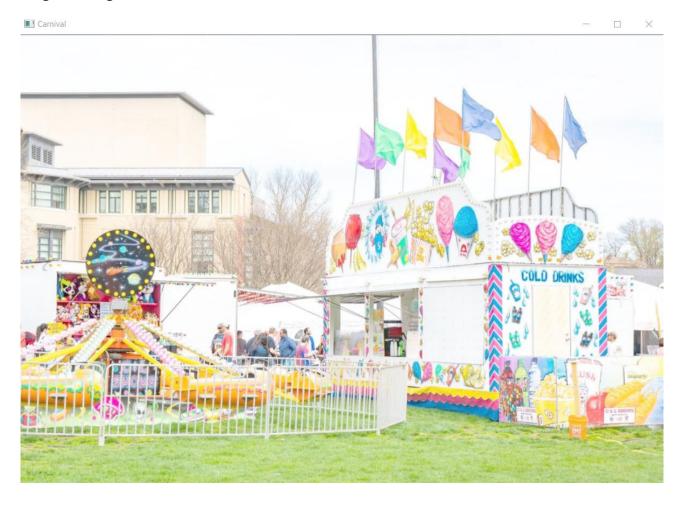


IMAGE 2: CARNIVAL.JPG

Original Image:



Gamma Corrected Image (Gamma= 0.2):



Operating System: Windows 10

IDE used:

For test runs: Jupyter Notebook

For original work with commenting: Spyder

Number of Hours spent: 6.5 Hours