

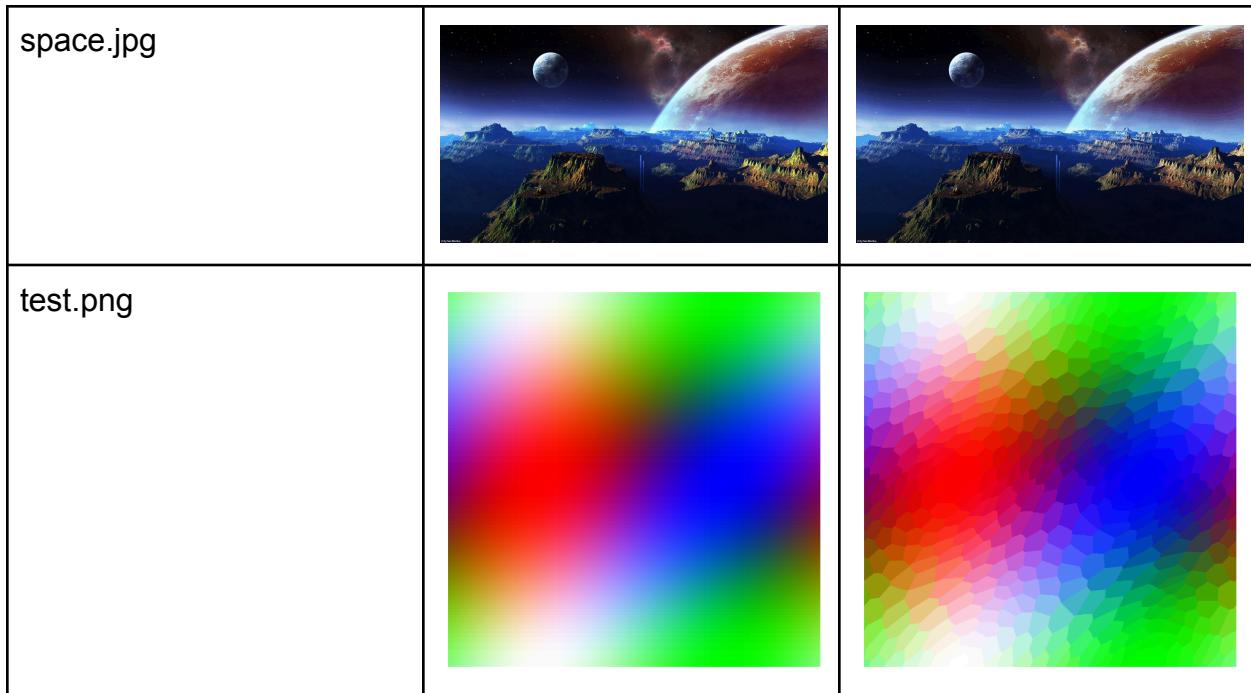
CS 214 Extra Credit 2
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Project Members

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Images Used

<i>Image Name</i>	<i>Original</i>	<i>C kernel 8-bit colormap</i>
bear.jpg		
cartoon.jpg		
spaceman.jpg		



Computer Specification:

Processor: Intel(R) Core(TM) i9-10900 CPU @ 2.80GHz

Memory: 32394136 kB

Operating System: Ubuntu 22.04.5 LTS

Language Performance

Image Name	Width	Height	Pixels	Seed	Iterations	Python time (sec)	C kernel time (sec)
bear.jpg	980	980	960,400	214	3	35.434051	0.910333
cartoon.jpg	626	417	261,042	214	3	9.567134	0.248000
spaceman.jpg	1280	720	921,600	214	3	33.513552	0.876460

space.jpg	1920	1080	2,073, 600	214	3	77.07264 8	1.965591
test.png	963	964	928,33 2	214	3	35.44803 1	0.889021

Average time per pixel:

Python: 37.2 microseconds per pixel

C kernel: 0.95 microseconds per pixel