

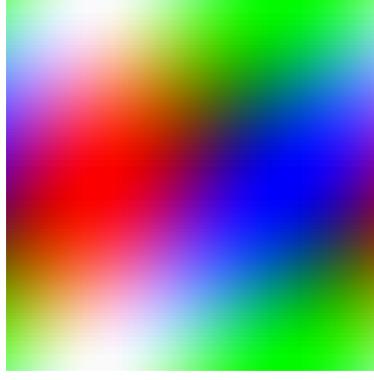
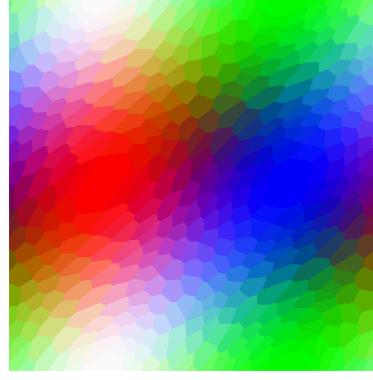
## CS 214 Extra Credit 2

April 4th, 2025

### Project Members:

Shahmeer Rauf  
Michael Lopresti  
Shawn Ebenezer

### Images Used:

Image Name	Original	C kernel 8-bit colormap
Input.png		
battleofwaterloo.jpg		
cartoon_ec2.png		



### Computer Specifications:

Processor: Apple M1

Memory: 8GB

Operating System: macOS

### Language Performance:

Image Name	Width	Height	Pixels	Seed	Iterations	Python (Time)	C(Time)
Input.png	963	964	928332	214	3	20.954	0.98
battleofwaterloo.jpg	1260	906	1,141,560	214	3	25.430	1.045
cartoon_ec2.p	1920	1080	2,073,600	214	3	48.734	2.108

ng							
bug.jpg	800	600	480,000	214	3	23.724	1.025
napoleon.png	640	480	307,200	214	3	12.809	0.644
images.png	400	300	120,000	214	3	1.100	0.046

**Average Time per pixel(usec):**

Python: 23.14

C Kernel: 1.02