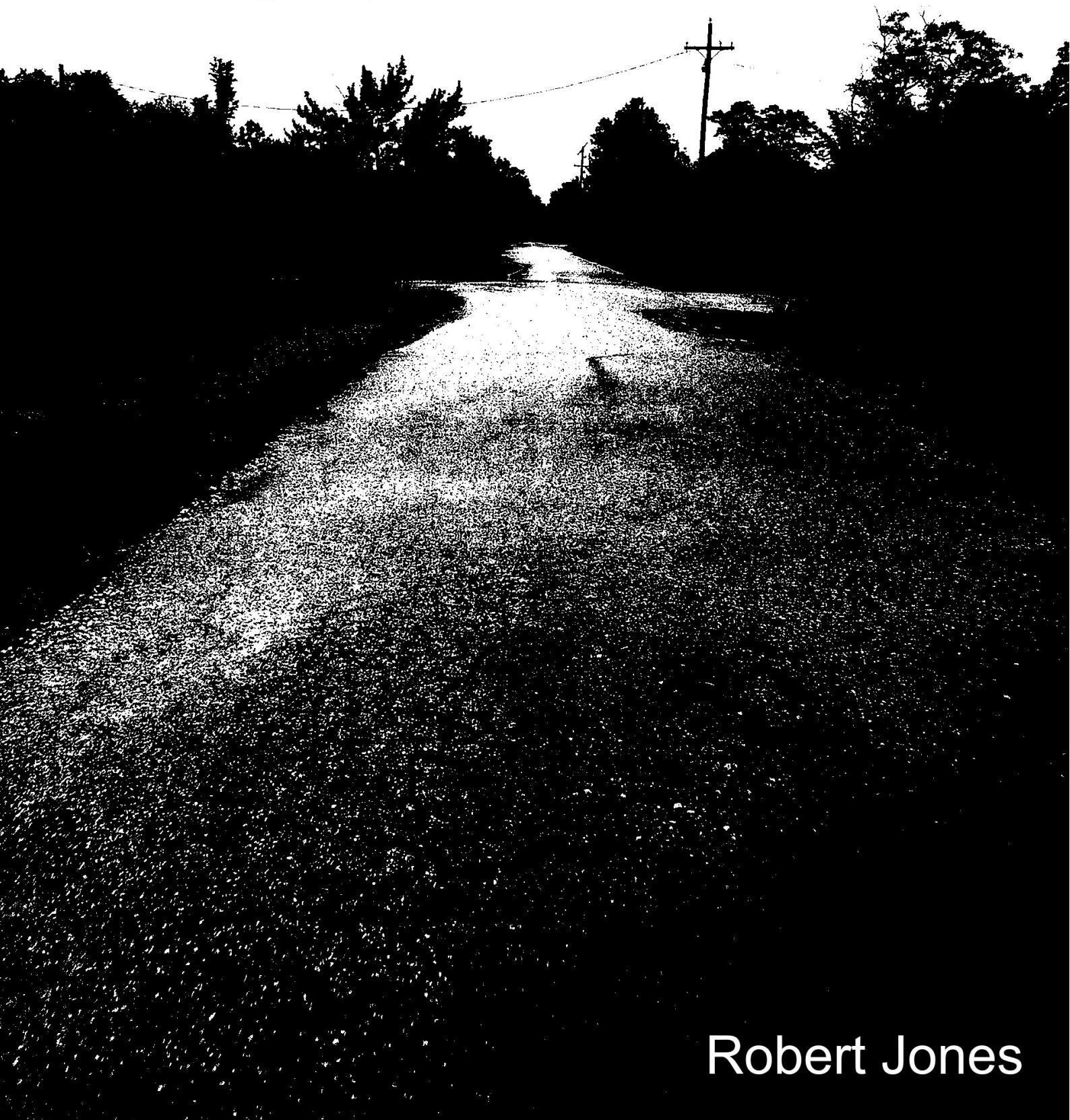


# Color and Compression Effects on a Self-Portrait Photograph



Robert Jones



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**c:**

color count (when reduced)

**mono:**

monochromatic conversion

**quality:**

JPEG compression quality setting

**x:**

The number of repeated recompression iterations.

## Base Image

### Color Depth:

24-bit (16.7 million colors)

### Hues:

polychromatic

### Dithering:

n/a

### JPEG Compression:

100% quality

### Iterations:

1 iteration

### File size:

6070 KB



**Variant Image, quality 10**

**Color Depth:**

24-bit (16.7 million colors)

**Hues:**

polychromatic

**Dithering:**

n/a

**JPEG Compression:**

10% quality

**Iterations:**

1 iteration

**File size:**

349 KB



## Variant Image, quality 0

### Color Depth:

24-bit (16.7 million colors)

### Hues:

polychromatic

### Dithering:

n/a

### JPEG Compression:

0% quality

### Iterations:

1 iteration

### File size:

197 KB



## Variant Image, 100x

### Color Depth:

24-bit (16.7 million colors)

### Hues:

polychromatic

### Dithering:

n/a

### JPEG Compression:

0% quality

### Iterations:

100 iterations

### File size:

165 KB



## Variant Image, 256c

### Color Depth:

8-bit (256 colors)

### Hues:

polychromatic

### Dithering:

yes

### JPEG Compression:

100% quality

### Iterations:

1 iteration

### File size:

9900 KB



**Variant Image, 256c, quality 10**

**Color Depth:**

8-bit (256 colors)

**Hues:**

polychromatic

**Dithering:**

yes

**JPEG Compression:**

10% quality

**Iterations:**

1 iteration

**File size:**

349 KB



**Variant Image, 256c, quality 0**

**Color Depth:**

8-bit (256 colors)

**Hues:**

polychromatic

**Dithering:**

yes

**JPEG Compression:**

0% quality

**Iterations:**

1 iteration

**File size:**

196 KB



## Variant Image, 256c, 100x

### Color Depth:

8-bit (256 colors)

### Hues:

polychromatic

### Dithering:

yes

### JPEG Compression:

0% quality

### Iterations:

100 iterations

### File size:

165 KB



## Variant Image, 16c

### Color Depth:

4-bit (16 colors)

### Hues:

polychromatic

### Dithering:

yes

### JPEG Compression:

100% quality

### Iterations:

1 iteration

### File size:

11500 KB



## Variant Image, 16c, quality 10

### **Color Depth:**

8-bit (16 colors)

### **Hues:**

polychromatic

### **Dithering:**

yes

### **JPEG Compression:**

10% quality

### **Iterations:**

1 iteration

### **File size:**

349 KB



## Variant Image, 16c, quality 0

### Color Depth:

4-bit (16 colors)

### Hues:

polychromatic

### Dithering:

yes

### JPEG Compression:

0% quality

### Iterations:

1 iteration

### File size:

194 KB



## Variant Image, 16c, 100x

### Color Depth:

4-bit (16 colors)

### Hues:

polychromatic

### Dithering:

yes

### JPEG Compression:

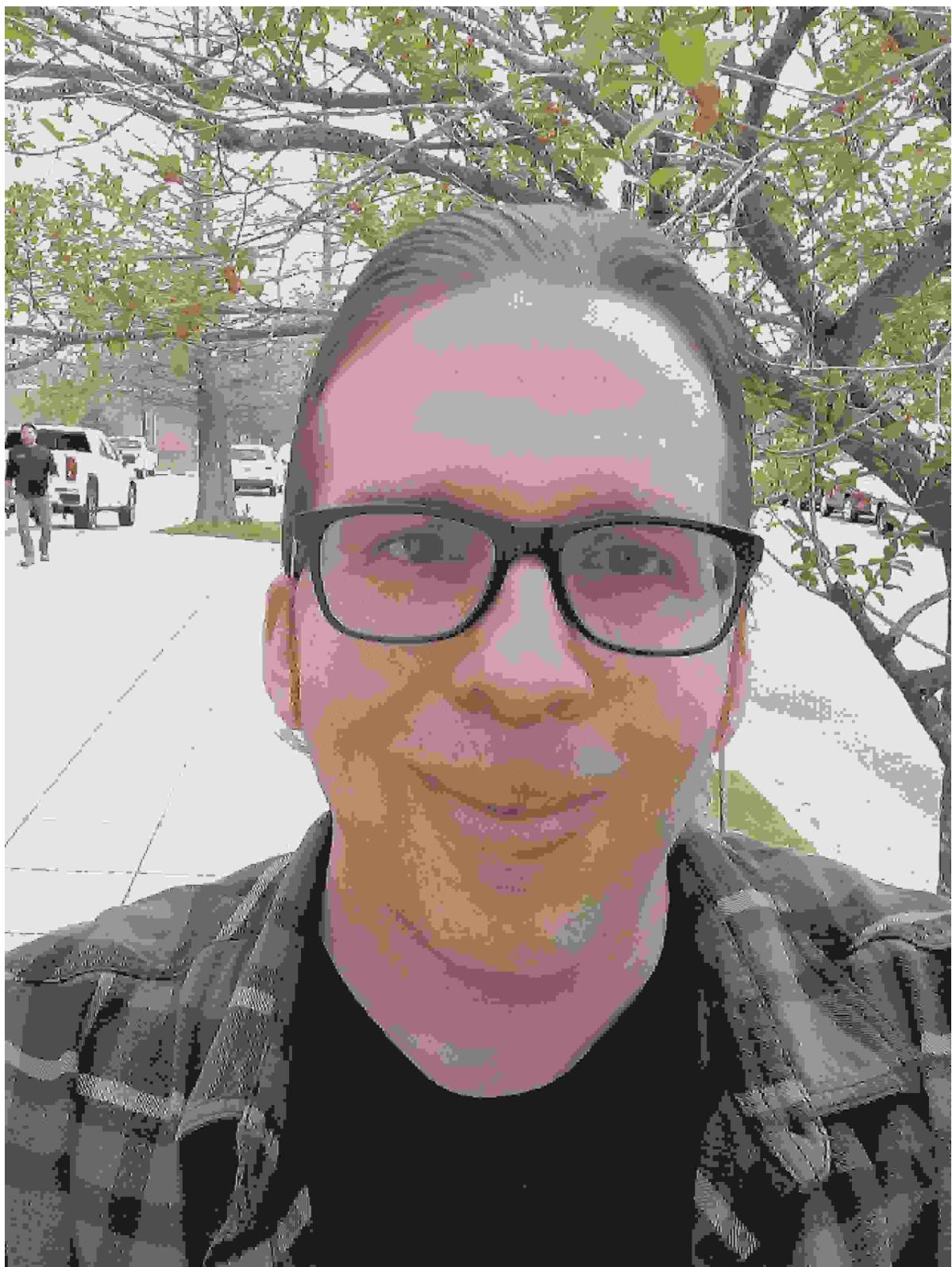
0% quality

### Iterations:

100 iterations

### File size:

164 KB



**Variant Image, mono**

**Color Depth:**

8-bit (256 colors)

**Hues:**

monochromatic

**Dithering:**

yes

**JPEG Compression:**

100% quality

**Iterations:**

1 iteration

**File size:**

4950 KB



**Variant Image, mono, quality 10**

**Color Depth:**

8-bit (256 colors)

**Hues:**

monochromatic

**Dithering:**

yes

**JPEG Compression:**

10% quality

**Iterations:**

1 iteration

**File size:**

343 KB



**Variant Image, mono, quality 0**

**Color Depth:**

8-bit (256 colors)

**Hues:**

monochromatic

**Dithering:**

yes

**JPEG Compression:**

0% quality

**Iterations:**

1 iteration

**File size:**

196 KB



**Variant Image, mono, 100x**

**Color Depth:**

8-bit (256 colors)

**Hues:**

monochromatic

**Dithering:**

yes

**JPEG Compression:**

0% quality

**Iterations:**

100 iterations

**File size:**

165 KB



## Variant Image, mono, 256c

### Color Depth:

8-bit (256 colors, quantized)

### Hues:

monochromatic

### Dithering:

yes

### JPEG Compression:

100% quality

### Iterations:

1 iteration

### File size:

4950 KB



**Variant Image, mono, 256c, quality 10**

**Color Depth:**

8-bit (256 colors, quantized)

**Hues:**

monochromatic

**Dithering:**

yes

**JPEG Compression:**

10% quality

**Iterations:**

1 iteration

**File size:**

343 KB



**Variant Image, 256c, quality 0**

**Color Depth:**

8-bit (256 colors, quantized)

**Hues:**

monochromatic

**Dithering:**

yes

**JPEG Compression:**

0% quality

**Iterations:**

1 iteration

**File size:**

196 KB



**Variant Image, mono, 256c, 100x**

**Color Depth:**

8-bit (256 colors)

**Hues:**

monochromatic

**Dithering:**

yes

**JPEG Compression:**

0% quality

**Iterations:**

100 iterations

**File size:**

165 KB



## Variant Image, mono, 16c

### Color Depth:

4-bit (16 colors)

### Hues:

monochromatic

### Dithering:

yes

### JPEG Compression:

100% quality

### Iterations:

1 iteration

### File size:

6410 KB



**Variant Image, mono, 16c, quality 10**

**Color Depth:**

4-bit (16 colors)

**Hues:**

monochromatic

**Dithering:**

yes

**JPEG Compression:**

10% quality

**Iterations:**

1 iteration

**File size:**

344 KB



**Variant Image, mono, 16c, quality 0**

**Color Depth:**

4-bit (16 colors)

**Hues:**

monochromatic

**Dithering:**

yes

**JPEG Compression:**

0% quality

**Iterations:**

1 iteration

**File size:**

195 KB



**Variant Image, mono, 16c, 100x**

**Color Depth:**

4-bit (16 colors)

**Hues:**

monochromatic

**Dithering:**

yes

**JPEG Compression:**

0% quality

**Iterations:**

100 iterations

**File size:**

165 KB



## Variant Image, mono, 2c

### Color Depth:

1-bit (2 colors)

### Hues:

monochromatic

### Dithering:

yes

### JPEG Compression:

100% quality

### Iterations:

1 iteration

### File size:

7230 KB



**Variant Image, mono, 2c, quality 10**

**Color Depth:**

1-bit (2 colors)

**Hues:**

monochromatic

**Dithering:**

yes

**JPEG Compression:**

10% quality

**Iterations:**

1 iteration

**File size:**

555 KB



Variant Image, mono, 2c, quality 0

**Color Depth:**

1-bit (2 colors)

**Hues:**

monochromatic

**Dithering:**

yes

**JPEG Compression:**

0% quality

**Iterations:**

1 iteration

**File size:**

381 KB



**Variant Image, mono, 2c, 100x**

**Color Depth:**

1-bit (2 colors)

**Hues:**

monochromatic

**Dithering:**

yes

**JPEG Compression:**

0% quality

**Iterations:**

100 iterations

**File size:**

349 KB



**Variant Image, mono, 2c, no dither**

**Color Depth:**

1-bit (2 colors)

**Hues:**

monochromatic

**Dithering:**

no

**JPEG Compression:**

100% quality

**Iterations:**

1 iteration

**File size:**

3220 KB



Variant Image, mono, 2c, no dither, quality 10

**Color Depth:**

1-bit (2 colors)

**Hues:**

monochromatic

**Dithering:**

no

**JPEG Compression:**

10% quality

**Iterations:**

1 iteration

**File size:**

337 KB



Variant Image, mono, 2c, no dither, quality 0

**Color Depth:**

1-bit (2 colors)

**Hues:**

monochromatic

**Dithering:**

no

**JPEG Compression:**

0% quality

**Iterations:**

1 iteration

**File size:**

207 KB



Variant Image, mono, 2c, no dither, 100x

**Color Depth:**

1-bit (2 colors)

**Hues:**

monochromatic

**Dithering:**

no

**JPEG Compression:**

0% quality

**Iterations:**

100 iterations

**File size:**

176 KB



