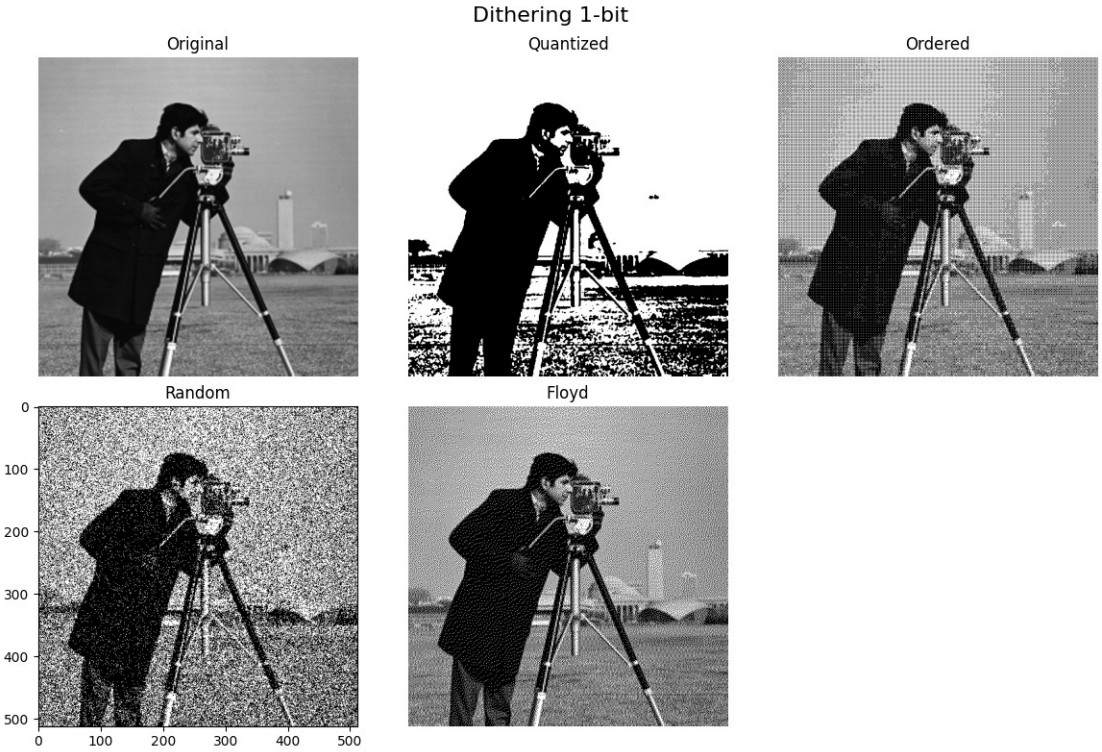
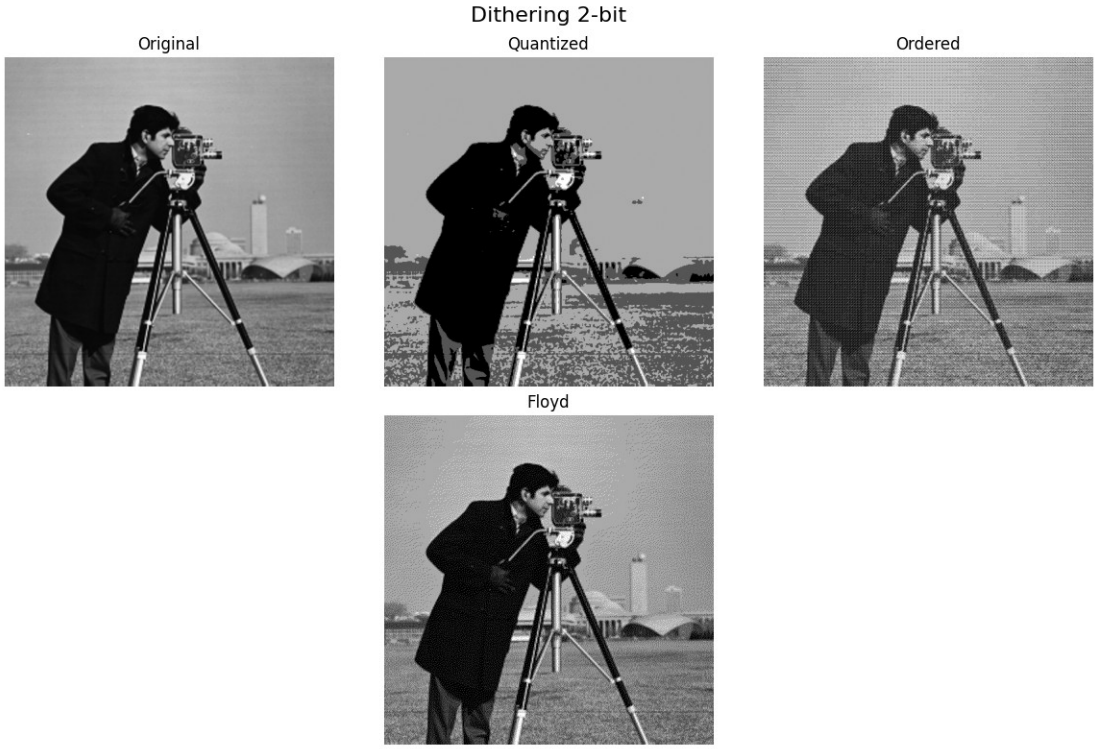
Quantization and Dithering Report

Po przetestowaniu działania kwantyzacji i metod ditheringu można zauważyć wyraźne różnice w jakości obrazów. Sama kwantyzacja powoduje utratę szczegółów i efekty plakatowe. Każda kolejna metoda ditheringu poprawiała jakość – zwłaszcza metoda Floyd–Steinberga, która przy większej liczbie kolorów daje rezultat bardzo zbliżony do oryginału. Losowy dithering nie nadaje się do odwzorowania detali, ale częściowo przypomina oryginalny obraz. Wyniki uzyskane podczas testów są zgodne z przykładami z instrukcji.

File: GS_0001.tif





Dithering 4-bit

Original

Quantized

Ordered

Floyd

File: GS_0002.png

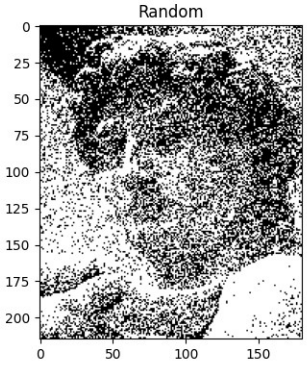
Dithering 1-bit

Original

Quantized

Ordered

Random



Floyd

Dithering 2-bit

Original

Quantized

Ordered

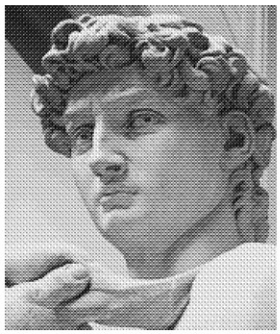
Floyd

Dithering 4-bit

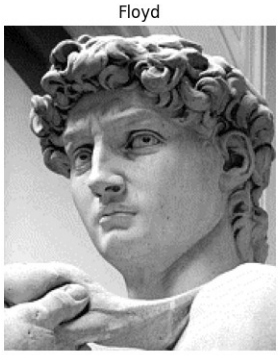
Original

Quantized

Ordered



Floyd



File: GS_0003.png

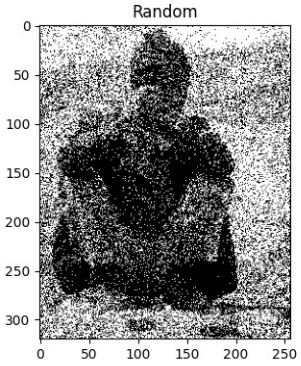
Dithering 1-bit

Original

Quantized

Ordered

Random



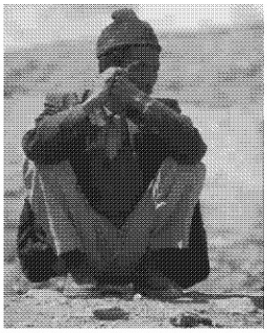
Floyd

Dithering 2-bit

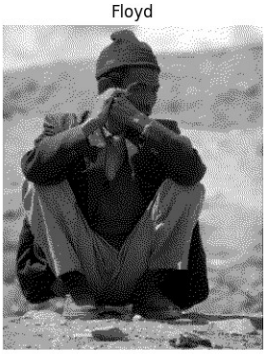
Original

Quantized

Ordered



Floyd

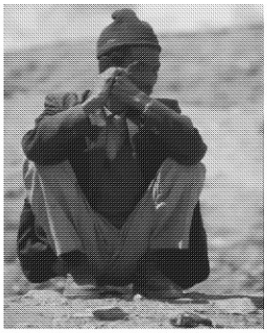


Dithering 4-bit

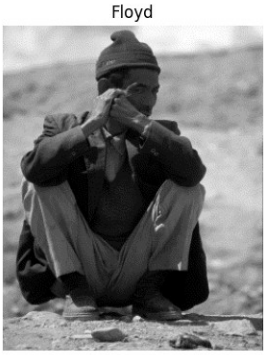
Original

Quantized

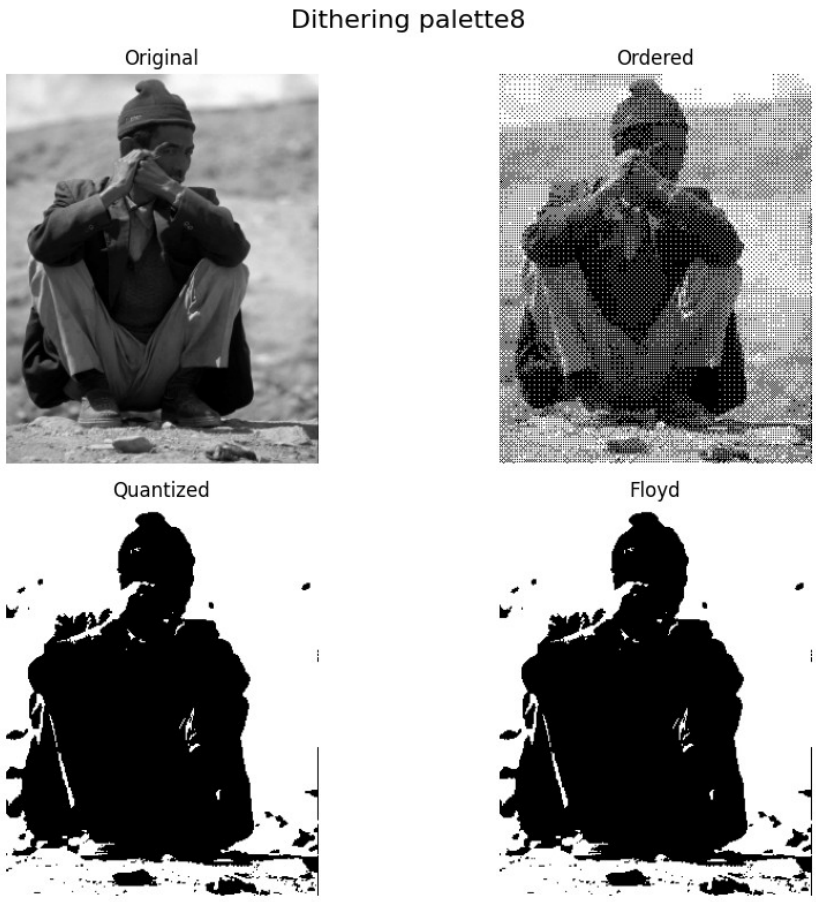
Ordered



Floyd



File: SMALL_0003.png



Dithering palette16

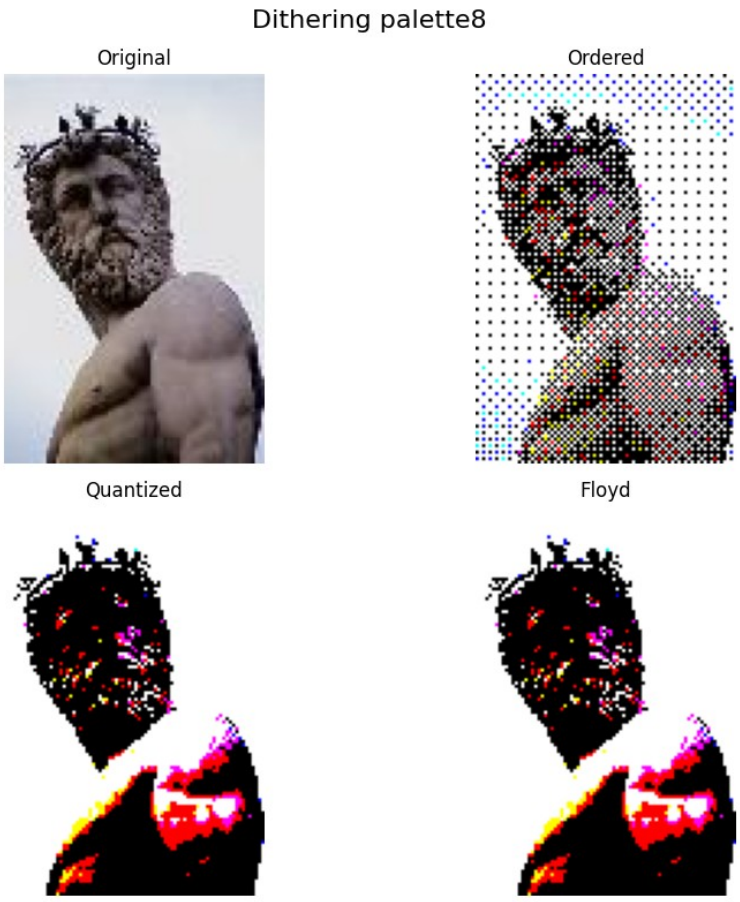
Original

Ordered

Quantized

Floyd

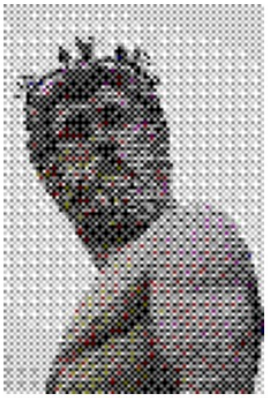
File: SMALL_0005.jpg



Dithering palette16

Original

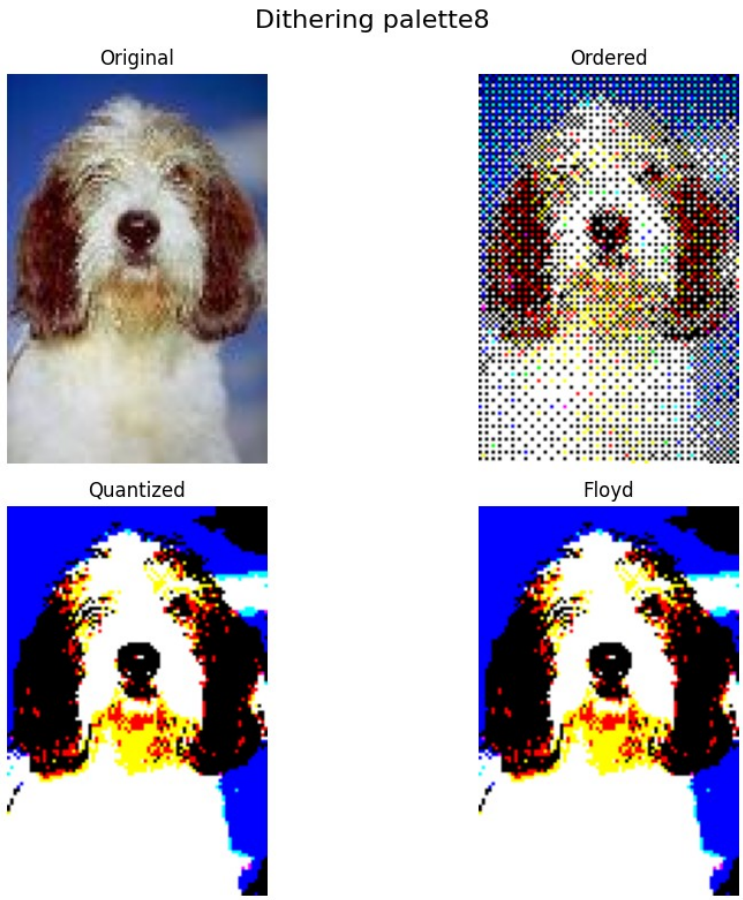
Ordered



Quantized

Floyd

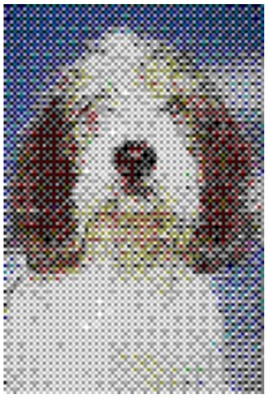
File: SMALL_0007.jpg



Dithering palette16

Original

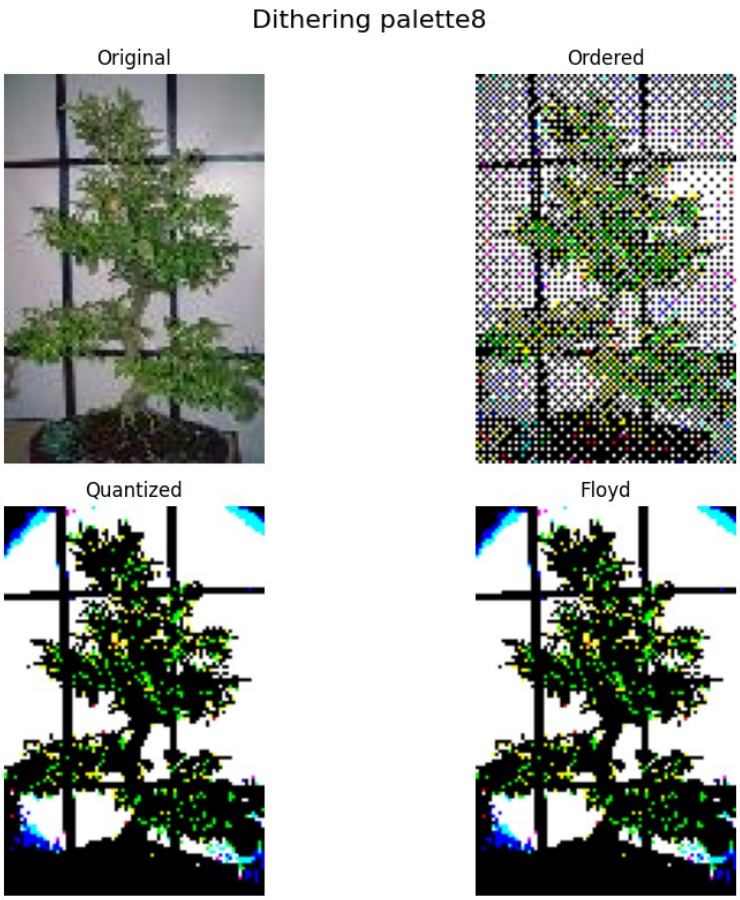
Ordered



Quantized

Floyd

File: SMALL_0009.jpg



Dithering palette16

Original

Ordered

Quantized

Floyd