

# Graphics Corner — Image Permutation

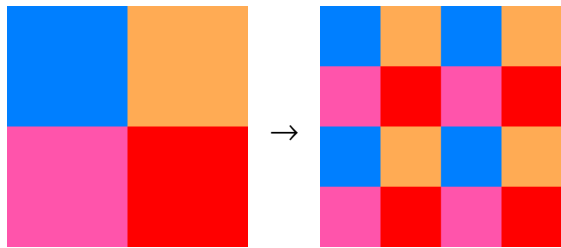


Figure 1. MultiReduce Applied to an Image

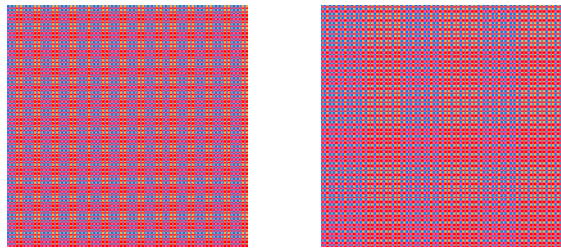


Figure 2. Further Applications of MultiReduce

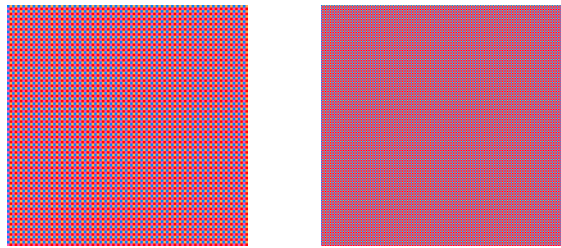


Figure 3. The Last Two Permutations

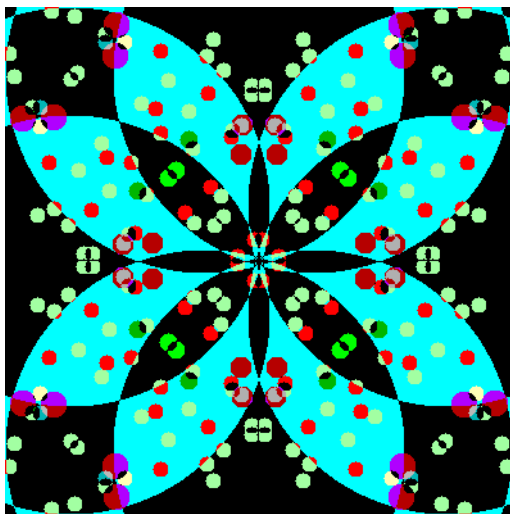


Figure 4. A Symmetric Image

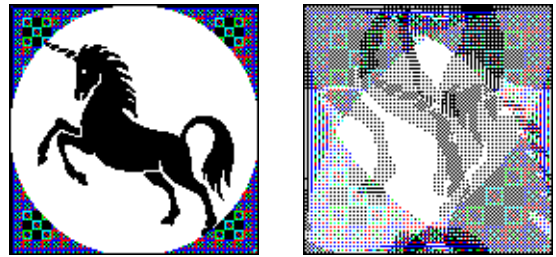


Figure 5. Unicorn Fantasies

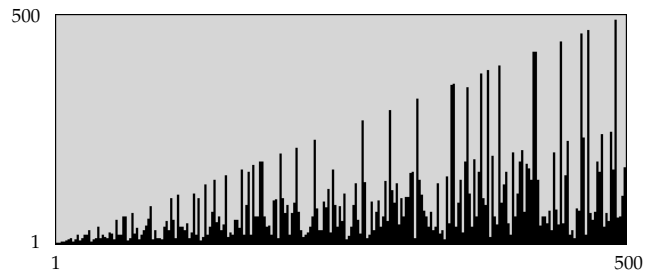


Figure 6. MultiReduce Periods

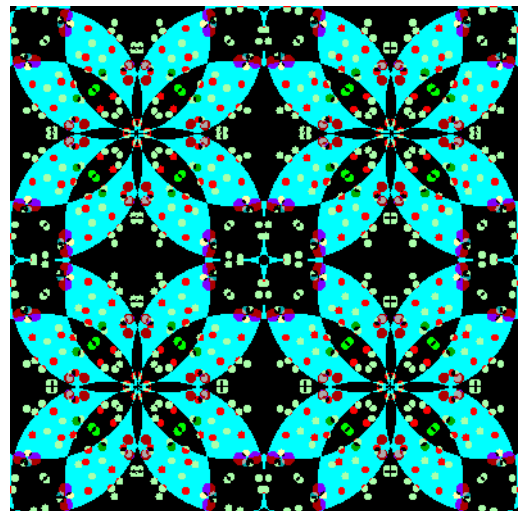


Figure 7. 2 x 2 MultiReduce

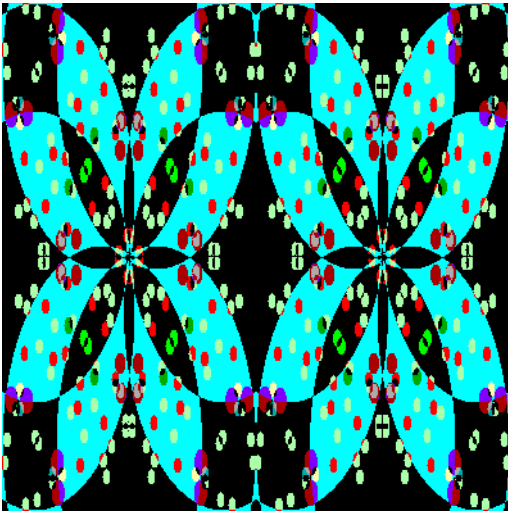


Figure 8.  $1 \times 2$  MultiReduce

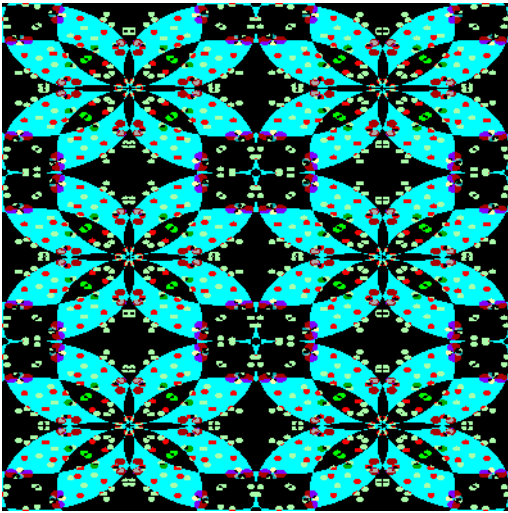


Figure 9.  $2 \times 3$  MultiReduce

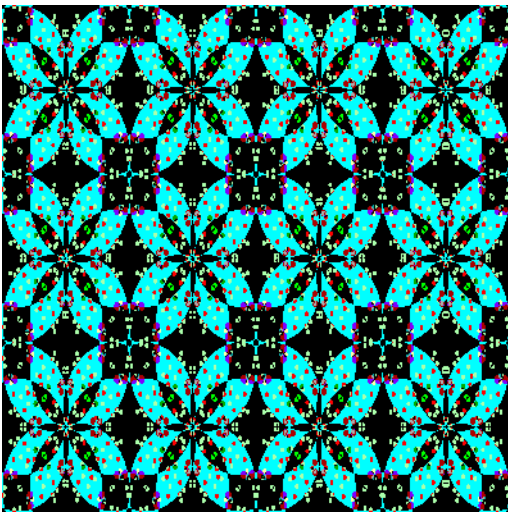


Figure 10.  $4 \times 3$  MultiReduce



Figure 11. MultiReduce Applied to a Weavable Image

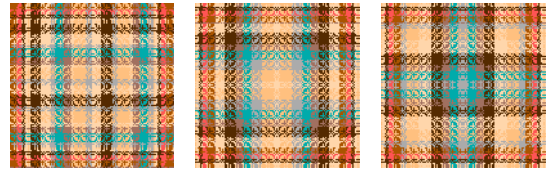


Figure 12. Block Permutations Applied to a Weavable Image