10.02 Assignment Instructions

Instructions: Create an image representative of the Neoplasticism style, using a recursive design algorithm.

An image rendered in the Neoplastic style complies with the following rules:

- The image can only contain the colors red, yellow, blue, black, white, and gray.
- The image can only contain rectangular-shaped planes and lines.
- If two lines run in the same plane, they are parallel.
- Lines may only intersect at 90° angles.
- The ratio of white space to color (red, blue, and yellow) needs to be 2:1.
- Areas of complexity and simplicity must be placed in opposite corners.
- Mondrian art may not contain symmetry.

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1. Use a graphics drawing program (e.g., Windows Paint) or an online Mondrian art generator to create your image.
2. Save your image. If needed, take a screen capture and then save the image.
3. Give your image an appropriate name to reflect your vision of what the abstract image represents.
4. In a word processing document, answer the following:
   - Explain how you used the principle of recursion to create your image.
   - Briefly describe a plan for how you might write a program to produce Mondrian art.
   - Who should get the copyright credit for a piece of computer art: the CPU, the software, or the programmer? Explain your reasoning.
   - If a computer, with no human intervention, produced Mondrian art indistinguishable from an original masterpiece, would it be a sign of artificial intelligence?
   - If a computer, with no human intervention, produced Mondrian art indistinguishable from an original masterpiece, would it diminish the accomplishments of a human?

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