

12.02 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.
-

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?
-