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Taking the L



Create a generative art piece using an L-system.

Learning Goals:

• To experiment with and explore L-systems, a powerful generative algorithm for creating complex and interesting patterns.

Deliverables:

- 1. A final generative art piece, generated using an L-system.
 - If you use HTML/JS, you may use either canvas or SVG (though continuing practice with SVG is encouraged)
- 2. The generative program, executable with basic instructions
- 3. A brief artist statement reflecting on the creative process and the aesthetic decisions made.

Instructions:

- 1. Read up on the basic principles of L-systems and generative art.
 - Wikipedia
 - The OG book
- 2. Choose an L-system to use for your generative art piece.
 - You may choose a known example or create your own.
 - You should add some degree of sophistication to our basic L-system program. For example:
 - Adding a random component to the production rules, such that the resulting pattern is slightly different each time the program is run.
 - Adding a color scheme to the resulting pattern, such that different elements of the pattern are colored differently.
 - Adding overlapping production rules, such that the resulting pattern is more complex and layered.
 - Using interactive parameters to create a more dynamic and interactive program, such that the user can adjust certain variables and see how the resulting pattern changes.
 - Combining multiple L-systems to create a more complex and interesting generative art piece.
- 3. Write a program to produce strings with the chosen set of rules/alphabet/axiom, and then convert this string into a graphical form.
 - Your program should not immediately produce graphical effect from the rules themselves. It
 must produce a string first using the rules, and then convert this string into graphical form.
- 4. Your artwork should be visually interesting and engaging, should demonstrate creative risk-taking and artful effort, and be attractively presented within your chosen medium (screen, plot, etc).

Grading Criteria:

• The theme of the piece is clear and makes a poetic statement or inspires poetical thought.

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- B One of the required components is missing.
- You did not participate in critique, or the work does not reflect your capacity.

D

F Multiple components are missing entirely, the work is incomplete, or the work is clearly phoned in (well below your capacity).

If a grade of C or lower is given, you may be given an opportunity to try again for full credit. However, I may then require you to start over with a brand new piece.