



Illinois Wesleyan University
Digital Commons @ IWU

John Wesley Powell Student Research
Conference

1993, 4th Annual JWP Conference

May 8th, 9:30 AM - 4:30 PM

Fractal Programming in Logo

Mariya Kutwal
Illinois Wesleyan University

Dr. Susan Anderson-Freed, Faculty Advisor
Illinois Wesleyan University

Follow this and additional works at: <https://digitalcommons.iwu.edu/jwprc>

Kutwal, Mariya and Anderson-Freed, Faculty Advisor, Dr. Susan, "Fractal Programming in Logo" (1993). *John Wesley Powell Student Research Conference*. 25.
<https://digitalcommons.iwu.edu/jwprc/1993/posters/25>

This Event is protected by copyright and/or related rights. It has been brought to you by Digital Commons @ IWU with permission from the rights-holder(s). You are free to use this material in any way that is permitted by the copyright and related rights legislation that applies to your use. For other uses you need to obtain permission from the rights-holder(s) directly, unless additional rights are indicated by a Creative Commons license in the record and/ or on the work itself. This material has been accepted for inclusion by faculty at Illinois Wesleyan University. For more information, please contact digitalcommons@iwu.edu.

©Copyright is owned by the author of this document.

FRACTAL PROGRAMMING IN LOGO

Mariya Kutwal, Dept. of Computer Science, IWU, Dr. Susan Anderson-Freed*

The programming language Logo was created specifically to help in teaching children mathematics. Because it is simple and easy to learn, the basic concepts of geometry can quickly be grasped. As a result, Logo has not been used as extensively in programming as some other languages. However, it has been underestimated. Despite its inherent simplicity, Logo is powerful enough for advanced programming.

Fractals are a set of curves that cannot easily be explained using the concepts of Euclidean geometry. Formally, a fractal is a curve whose Hausdorff-Besicovitch dimension is strictly greater than its Euclidean dimension.

This project involved translating fractal equations into Logo and comparing fractal programming in Logo to fractal programming in C.