

A Gentle Introduction to L-Systems

Galen Seilis¹

Lindenmayer systems are parallel rewriting systems that have fascinated biologists, computer scientists, and mathematicians for decades. When interpreted as drawing instructions under a certain collection of assignments, they produce fascinating structures with a strong resemblance to plants, space filling curves, and other self-similar patterns. I will be giving an introduction to Lindenmayer systems that assumes minimal background knowledge of formal systems.

¹Department of Computer Science, University of Northern British Columbia, Prince George, B.C., V2N4Z9, Canada (seilis@unbc.ca).