

Implementation for lindenmayer systems

Steffen Knoblauch

July 16, 2020

1 Introduction

2 Lindenmayer systems

2.1 General idea

2.2 Grammar

2.3 Examples

3 Architecture

4 FileHandler

5 LSystemHandler

6 LSystem Datastructure

7 Parser for the Lsystem

8 TurtleGraphic

8.1 Abstract class

8.2 TestTurtle

8.3 CairoTurtle

8.4 Further implementations

SVG implementation

9 Outlook

1

¹P. Prusinkiewicz and A. Lindenmayer, *The Algorithmic Beauty of Plants*. 2004. [Online]. Available: <http://algorithmicbotany.org/papers/abop/abop.pdf> (visited on 07/16/2020)