L-systems

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CS151: Computational Thinking: Visual Media

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Lindenmayer Systems (L-systems)

Idea: Use characters in a string to tell turtle what to do.

• Example: F means go forward, - means turn right, + means turn left.

• Drawing a square: 'F+F+F+F+'
Can be used to draw photo-realistic trees/plants
Can be used to draw fractals

What is a fractal?

Mandelbrot Set
Mandelbrot Set
Let's see how we can use L-system to make a Koch snowflake fractal