OCR Computer Science H446

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## Project Overview

My project is a piece of software designed to visualise complicated mathematical systems, such as the Lorenz attractor, and other similarly complex “chaotic” systems.

* . The project should visualise these by rendering high-resolution high-fidelity images which trace a point in the system as time progresses.
* The project should prioritise quality of image, as well as efficiency.
* The project should also be highly configurable, such as changing scale, colours and rendering algorithms easily.
* Users should be able to enter their own custom governing equations for systems
* Users should be able to save and load configuration files so that they can easily recreate images with slight changes if needed.
* The project should also have a graphical user interface, and could include a small preview window.

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# Analysis – Computational Methods

Why is this project suited to a computational approach?

* Rendering images is a uniquely computational idea

# Analysis – Stakeholders

# Analysis – Existing Solutions

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# Design - Decomposition

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