The Linear Lunatics

Group members (from left-to-right)

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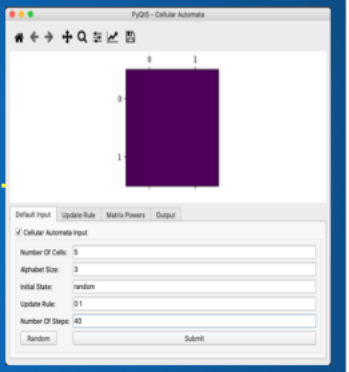

What our software app is about

Our application displays information for a user-defined cellular automata system. We use our custom-defined matrix operations to compute statistical information for the system; such as:

- **Nullspace(s) of the automata system**
- **Row-reduced echelon form for transition-matrix of the automata system**
- **If a cellular automata system is reversible or irreversible**
- **Number of cycles within an automata system**

Automata over n-steps!

Technologies we used

Python3 with following modules:

- **PyQt5** for creating our GUI
- **numpy** for our arithmetic
- **matplotlib** for cell representation

What we have learned & gained

- How to create user interface applications
- Work on code and maintain versions amongst our team
- Gained experience working with a client and meeting required expectations

Scan our QR To visit our git and download our software!