

**Project #1**

1. **(15 points)** Develop a code-framework which is general enough to implement multiple simple cellular automata simulations (take Conway and Wire-world as two examples), including:
  - a. File-save/load to save state
  - b. Pause and step simulation
  - c. Display graphically on-screen.
2. **(5 points)** Implement one of these simple CA's (you can do others besides Conway / Wire-world – just run it by Jason first)
3. **(5 points)** Implement a second simple CA (using the same framework)

**Project #2**

4. **(20 points)** Implement the reaction-diffusion simulation discussed in class with at least one of these seeding methods:
  - a. Checkerboard
  - b. Image-based
5. **(5 points)** Allow per-pixel based values for feed-rate, kill-rate, diffA, and / or diffB using an image.
6. **(5 points)** *Elegantly* expand your framework from part 1 to accommodate this type of cellular-automata-like simulation.