Report: 1
Date: 02.02.2024

Ajay Satish Patil | Registration No.: 126655

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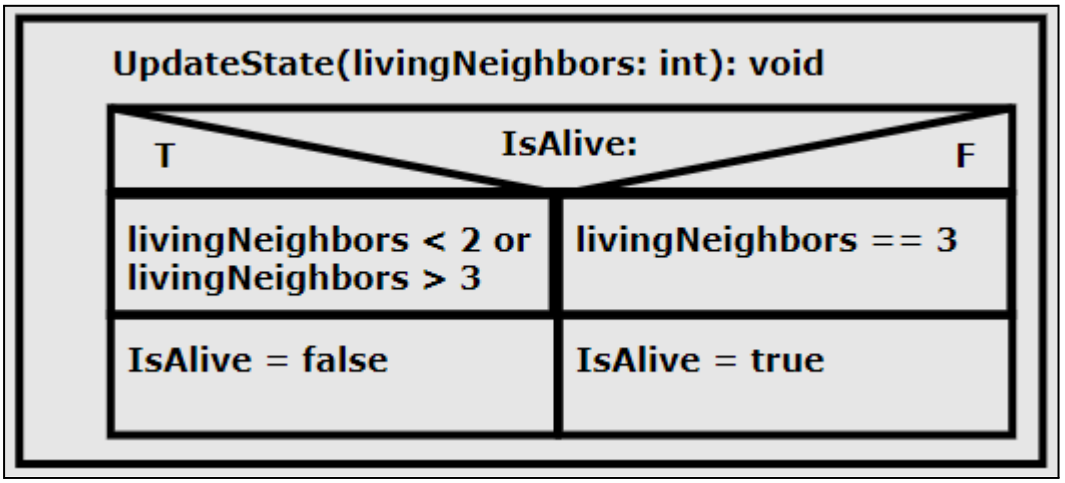
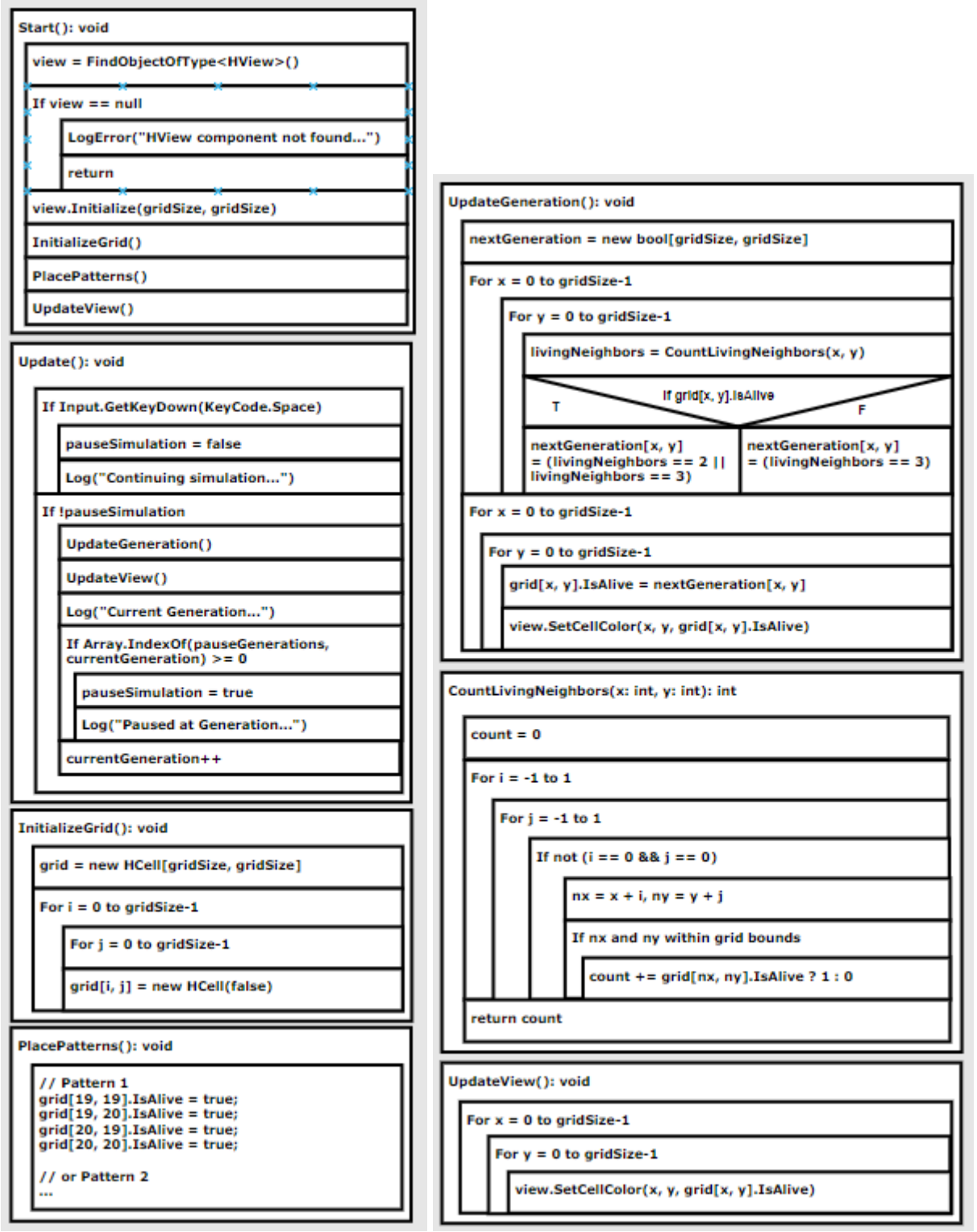
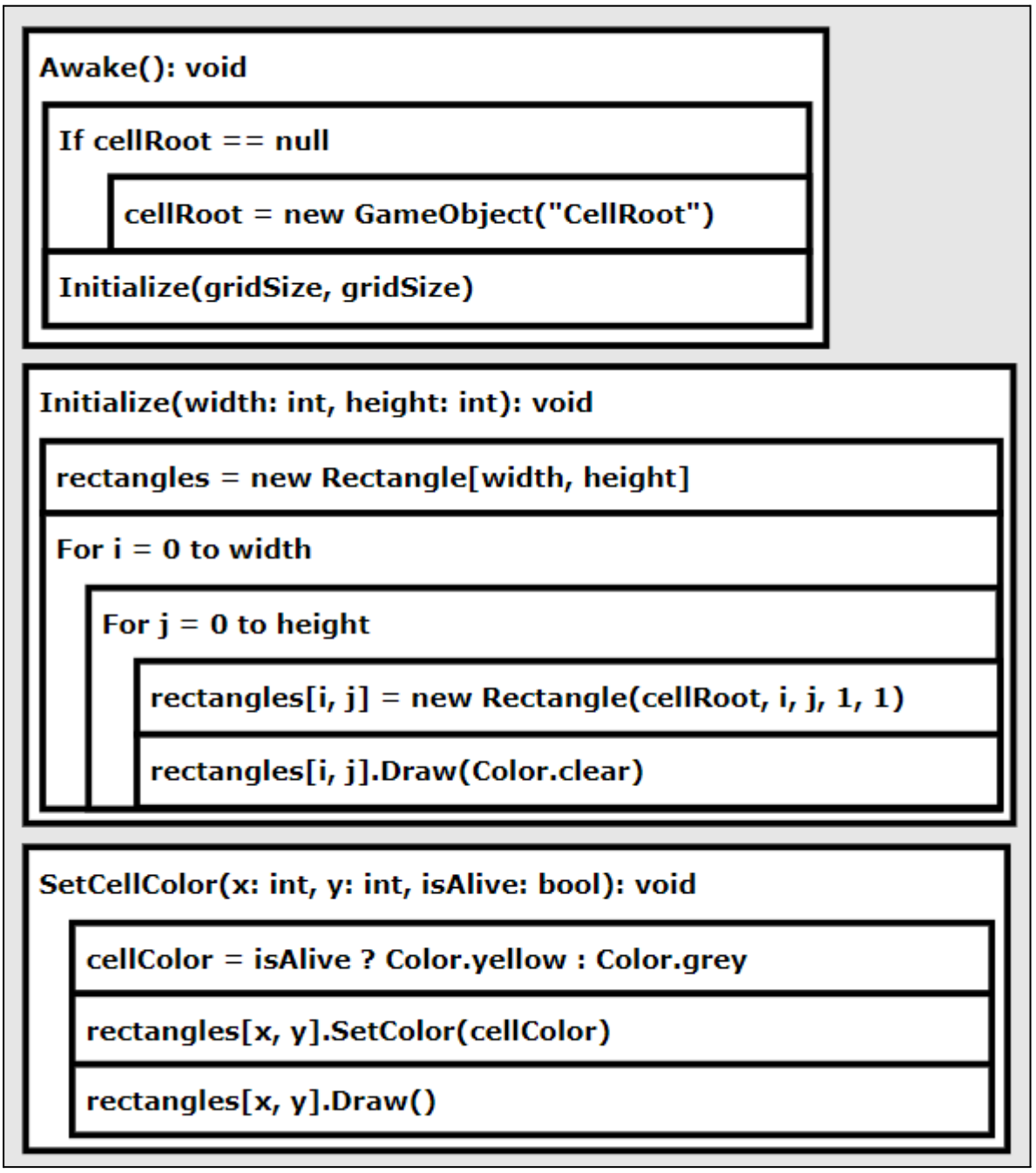
1. **Graph to represent the behavior of a single automat via Nassi-Shneiderman**



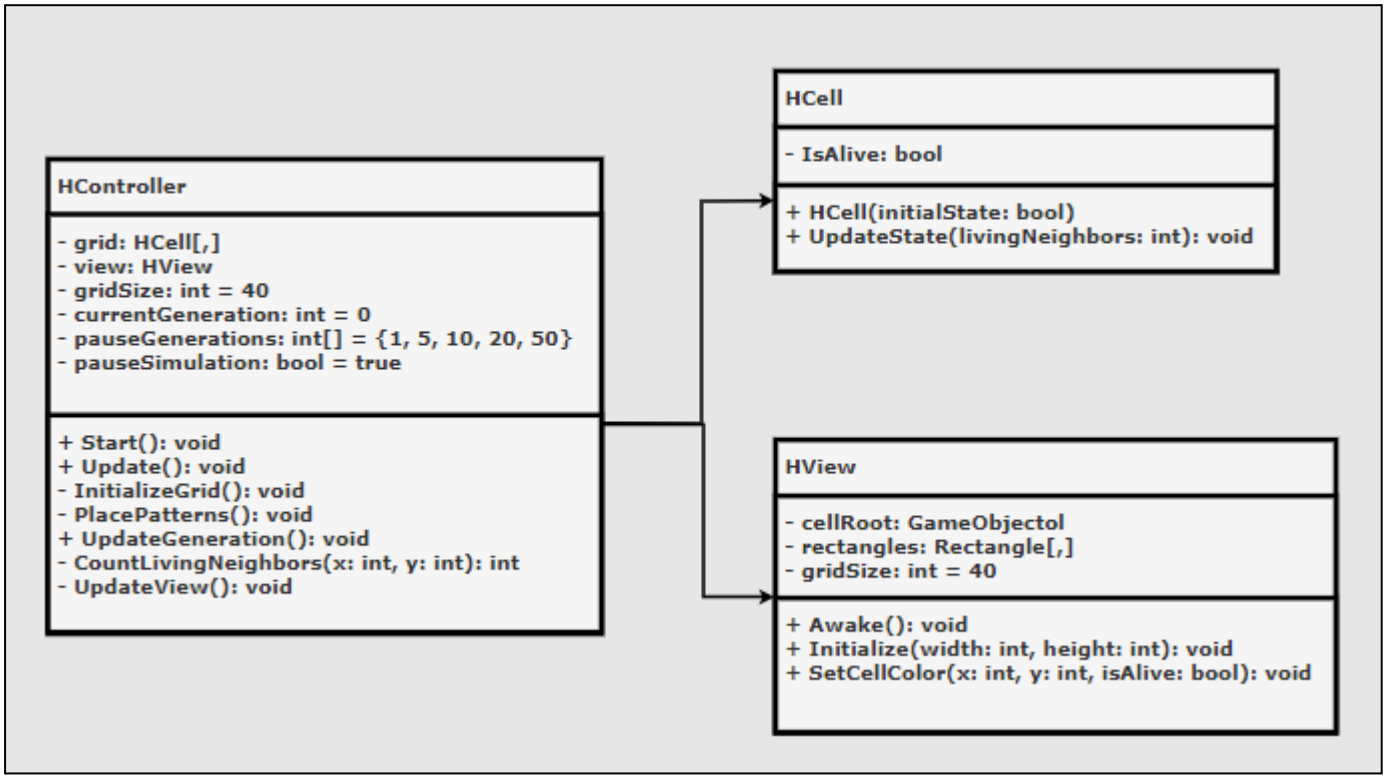
2. **The Nassi-Shneiderman diagram for the calculation of the whole field** (method wise NSDs)



3. **The Nassi-Shneiderman diagram for the visualization of the field**
(method wise NSDs)

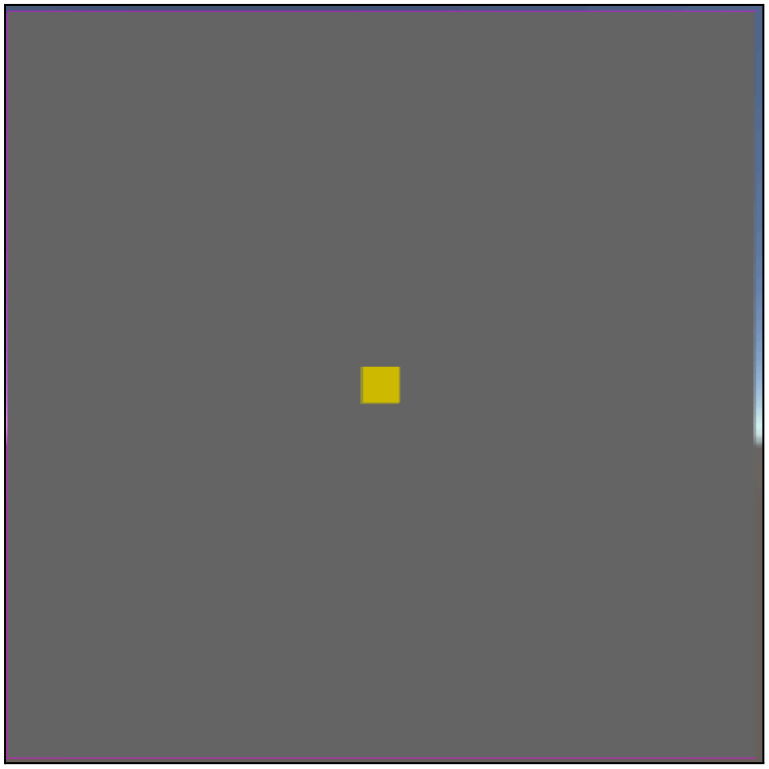


4. Class diagrams for the implemented classes



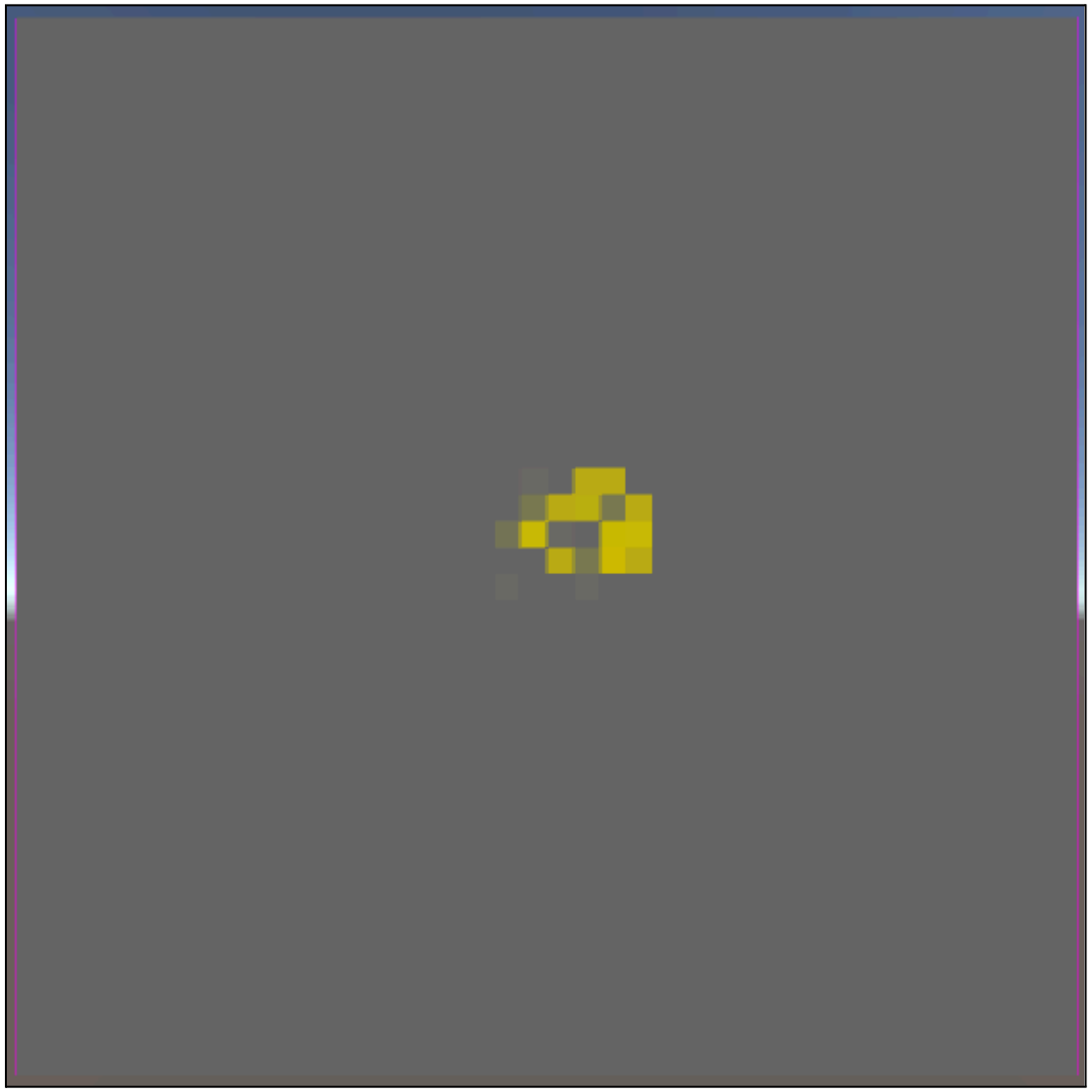
5. Screenshots of the evolution results:

[1] Pattern 1:
Same pattern for all generations -

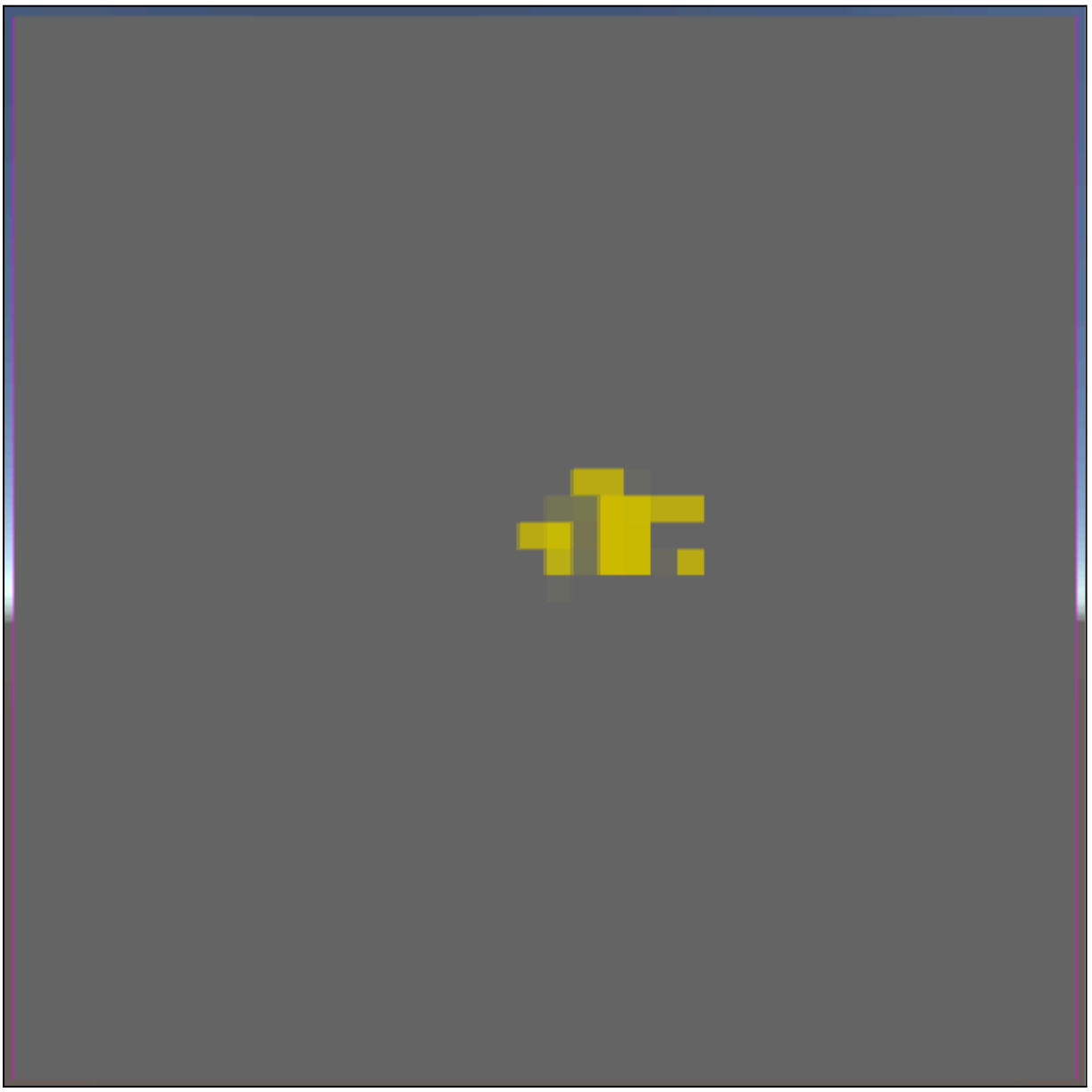


[2] Pattern 2:

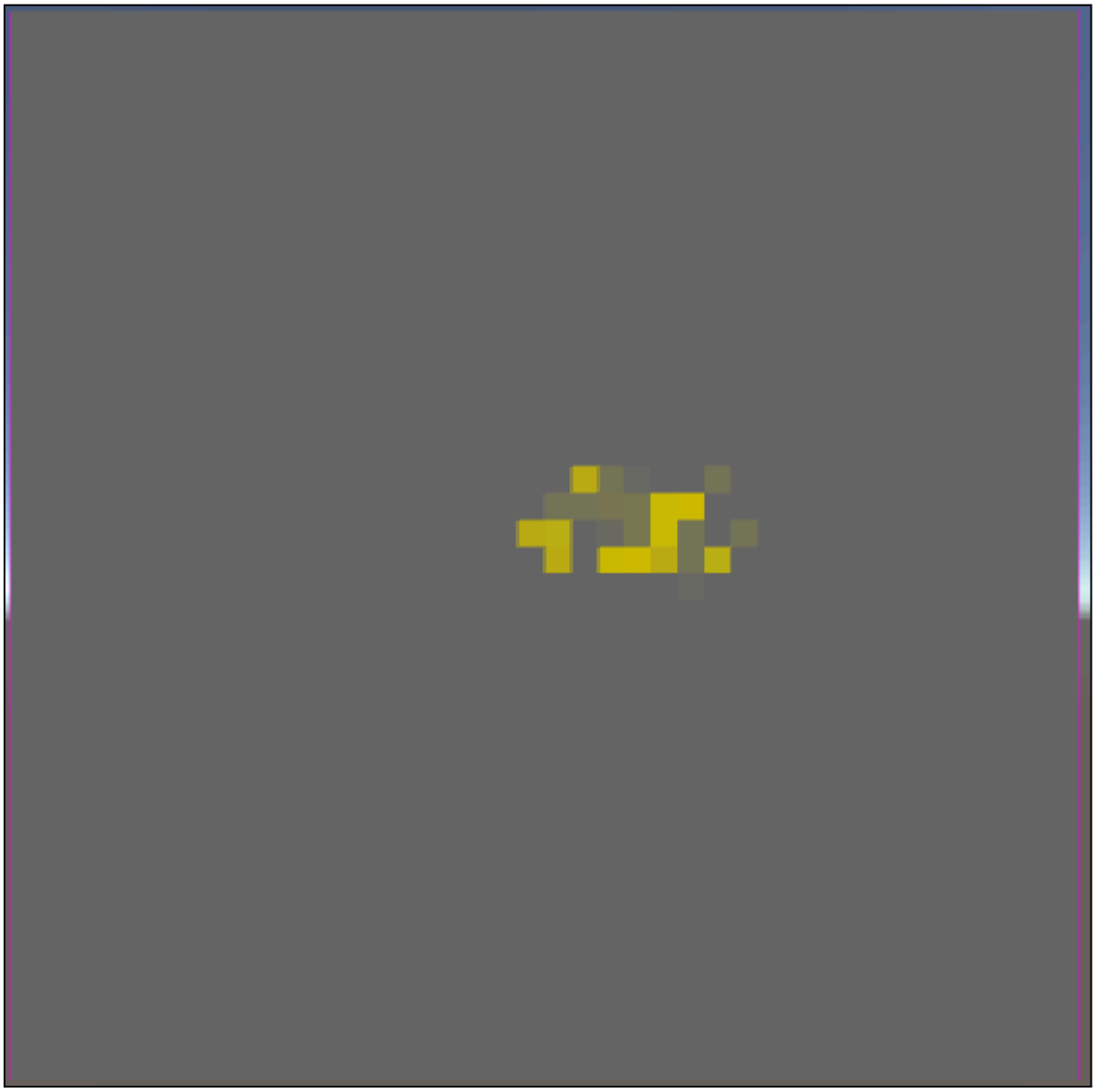
At the 1st generation (Initial):



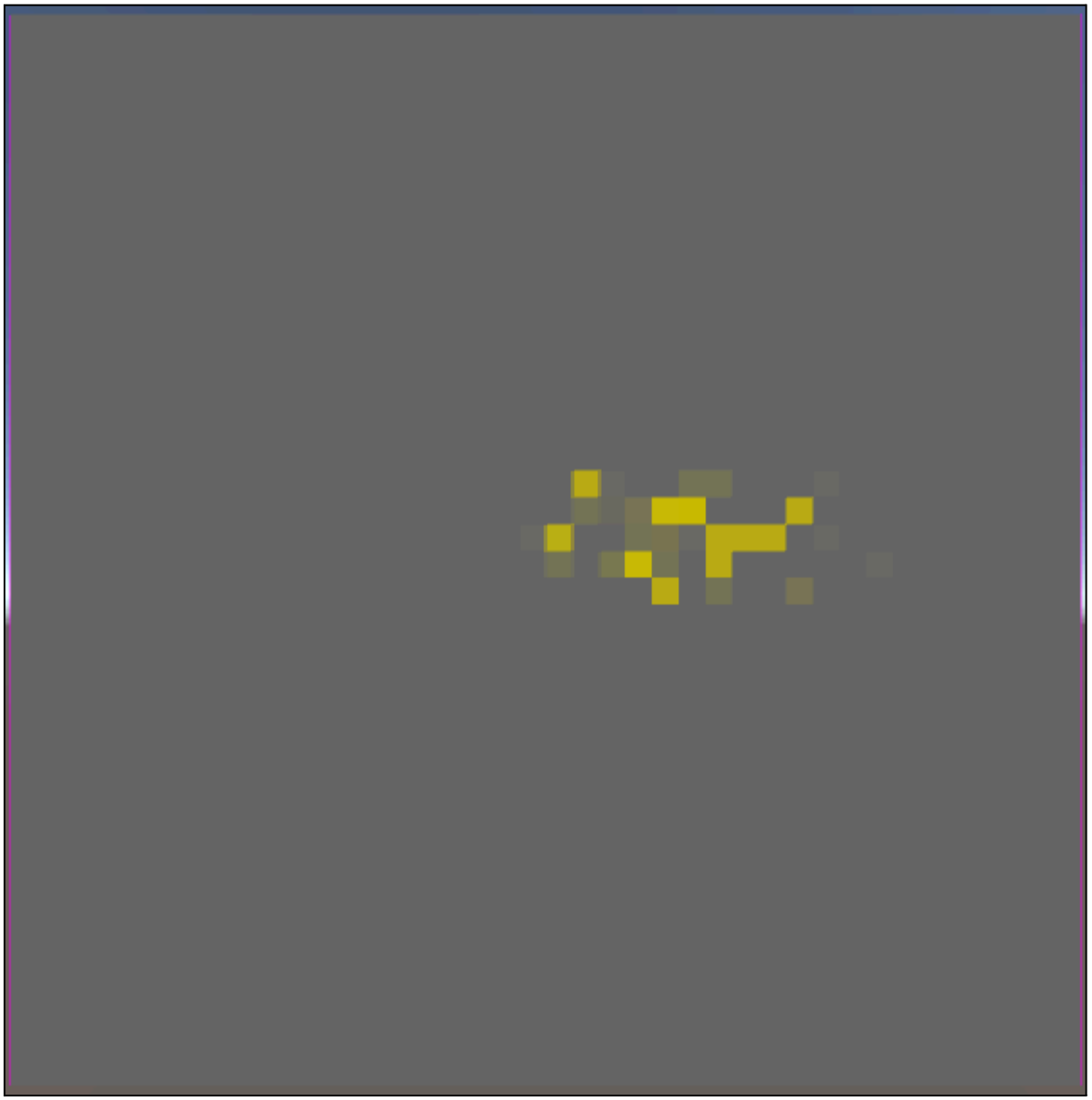
At the 5th generation:



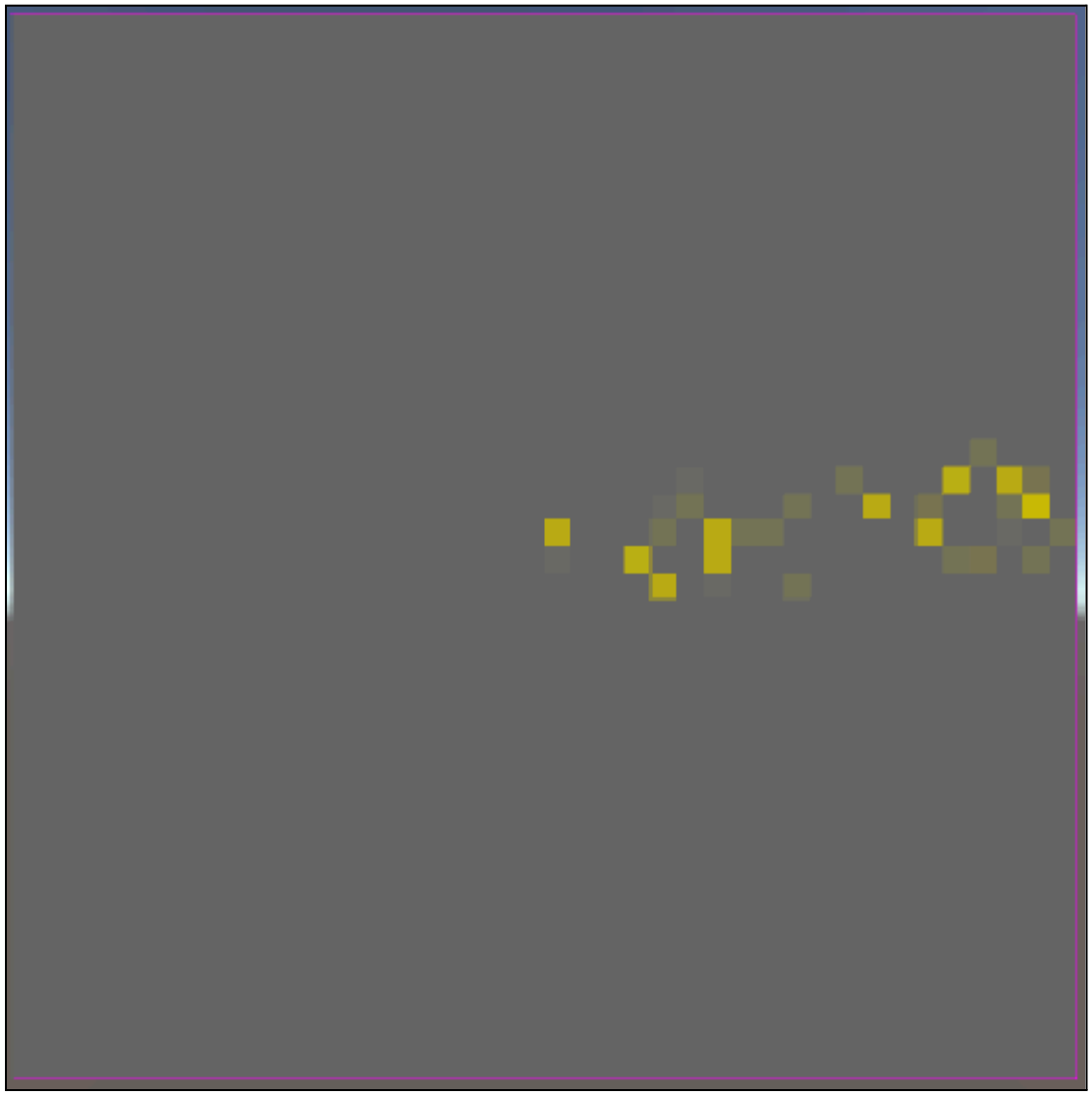
At the 10th generation:



At the 20th generation:

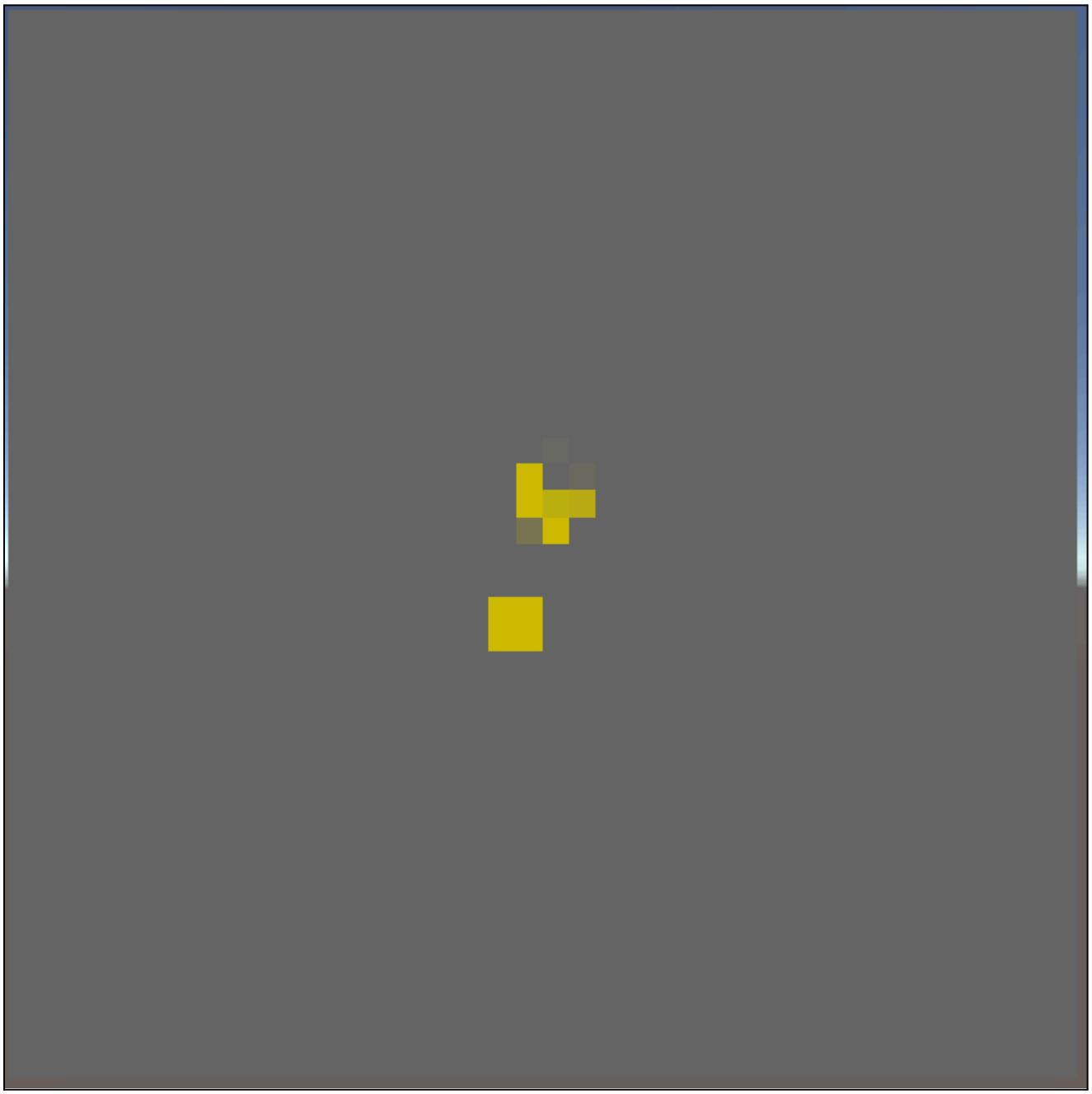


At the 50th generation:

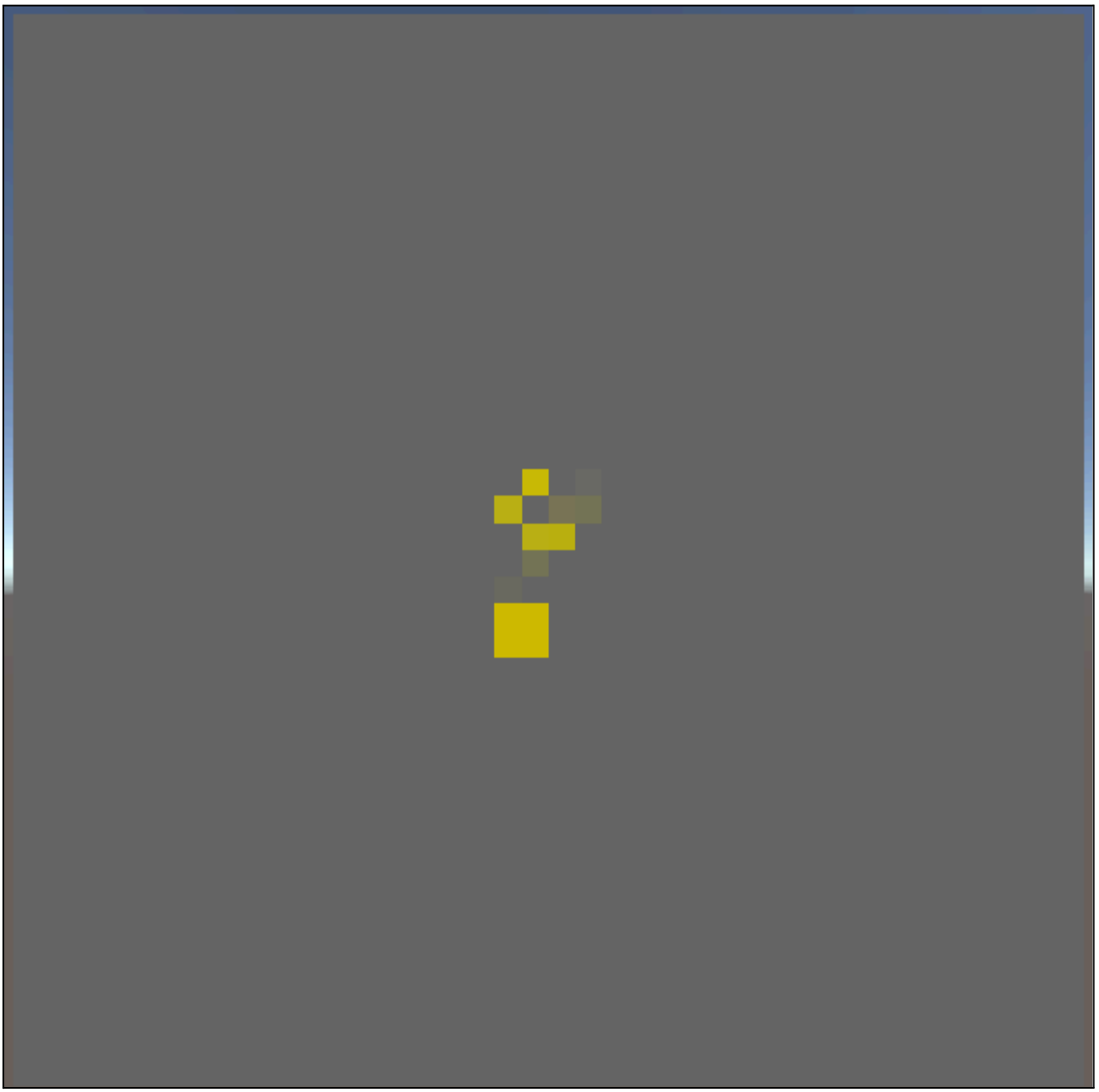


[3] Pattern 3:

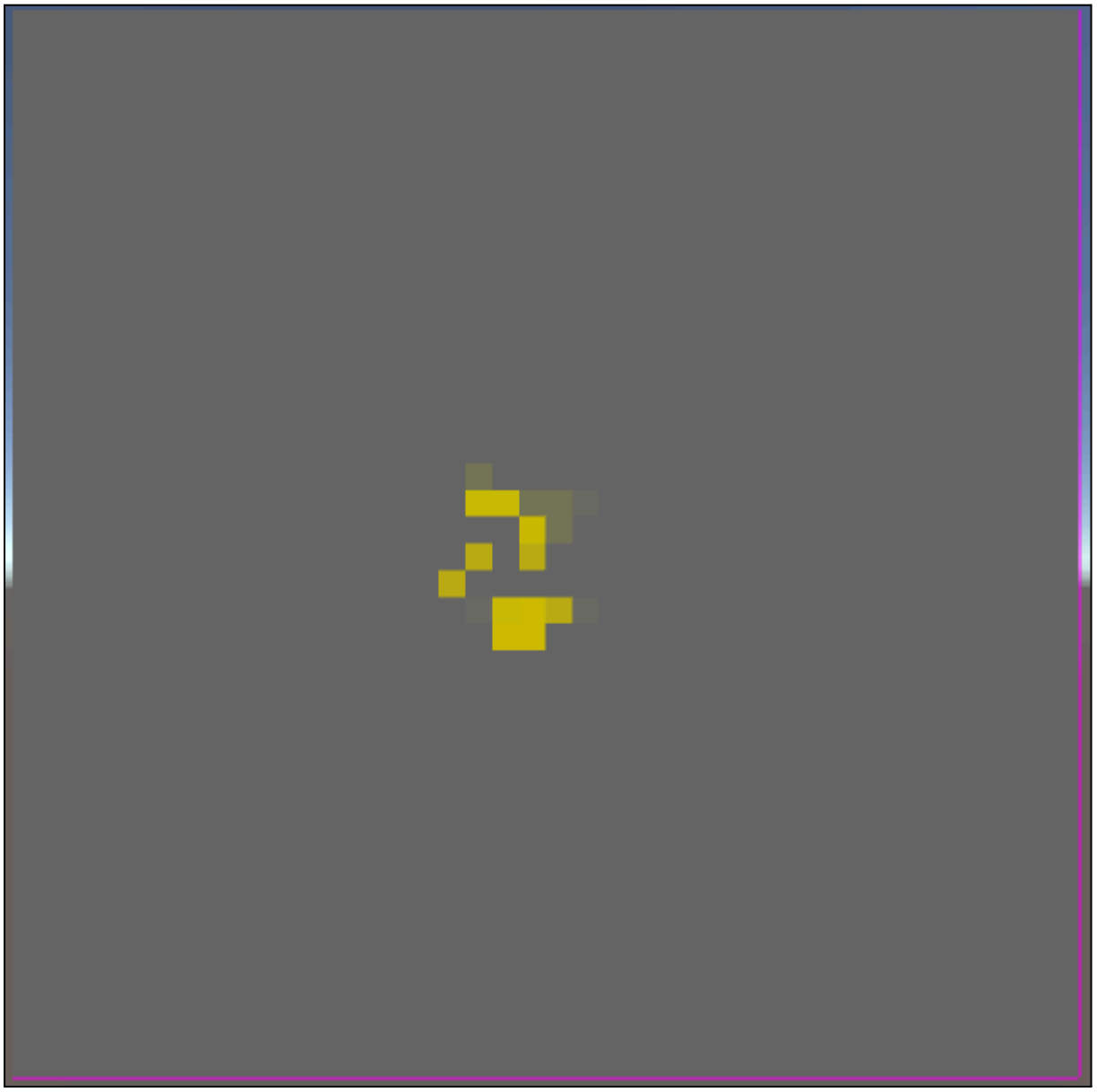
At the 1st generation (Initial):



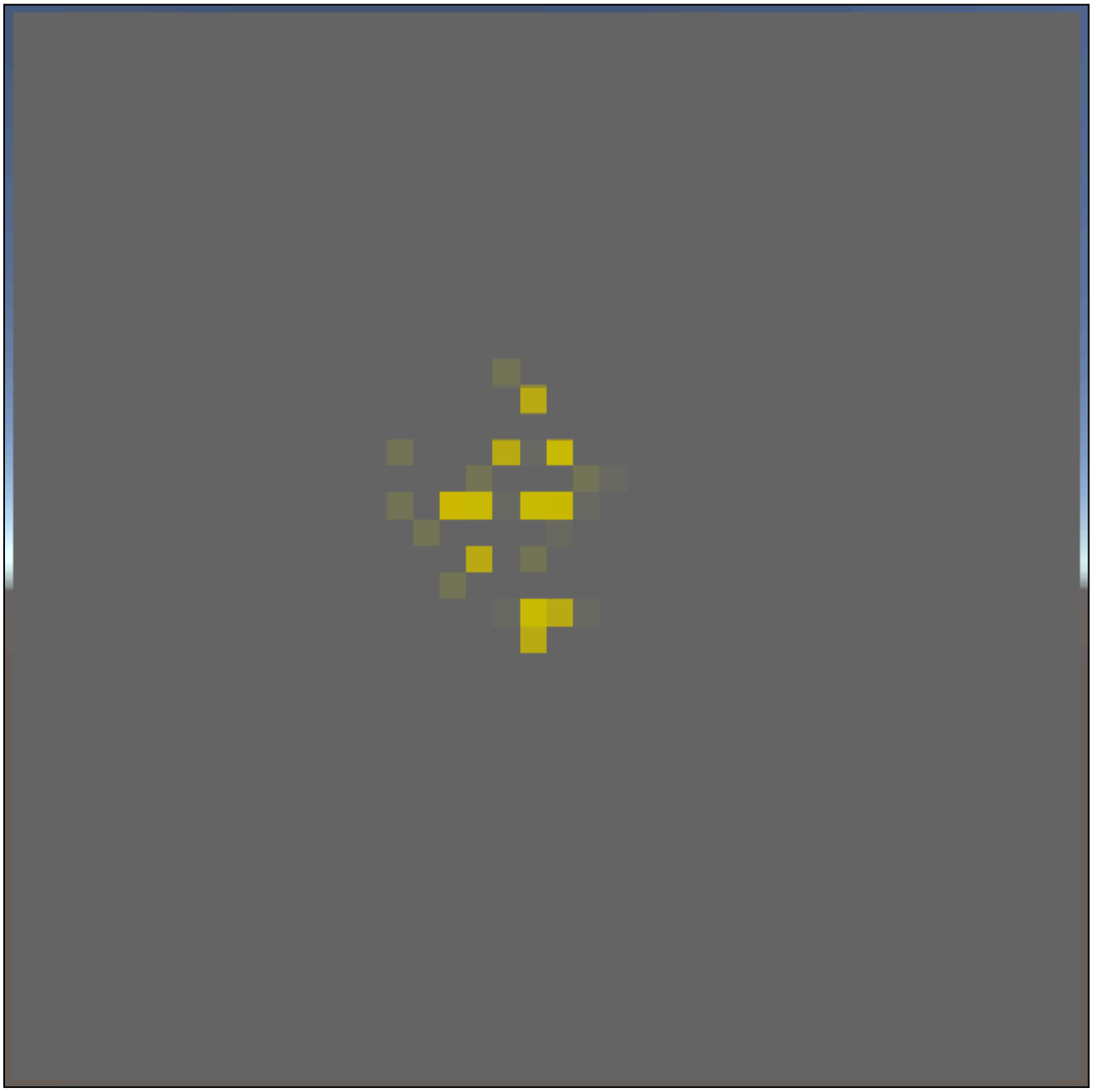
At the 5th generation:



At the 10th generation:



At the 20th generation:



At the 50th generation: