Game of Life Project

By Malaika Awoko

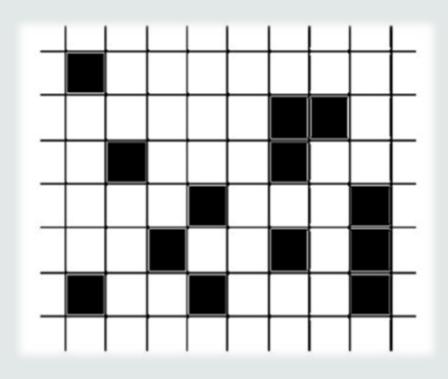
Antanya Lindsay, and Abigail Graham

Project Goals

- Original/ Unique
 - Different color and shape
 - •Create new and future generations
 - Count population

What the code looks like

- Square grid
- Shows current generation of the population
- Each square is either
 - Alive or dead



Cell Class

Game class

Board Class

```
class Cell:
    def init (self,state):
       self.state = state
       self._future_state = state
    def state(self):
       return self._state
    @state.setter
    def state(self, new_state):
       self._state = new_state
    def switch_state(self):
        self._state = not self._state
    def update_future_state(self, new_state):
        self._future_state = new_state
    def next_gen(self):
       self._state = self._future_state
   def __str__(self):
    if self._state:
            return "*"
        else:
           return " "
```

```
def __init__(self,state):
    self.state = state
    self._future_state = state
def state(self):
   return self._state
@state.setter
def state(self, new_state):
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def __str__(self):
    if self._state:
       return "*"
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```

How it works?

- · Each cell can either be dead or alive
- The status of each cell changes how the game will play out
- Each cell's status depends on the status of its 8 neighbors

Rules as the different cell shapes

- We did three different cell shapes
- Oscillators
- Gliders
- Blinkers