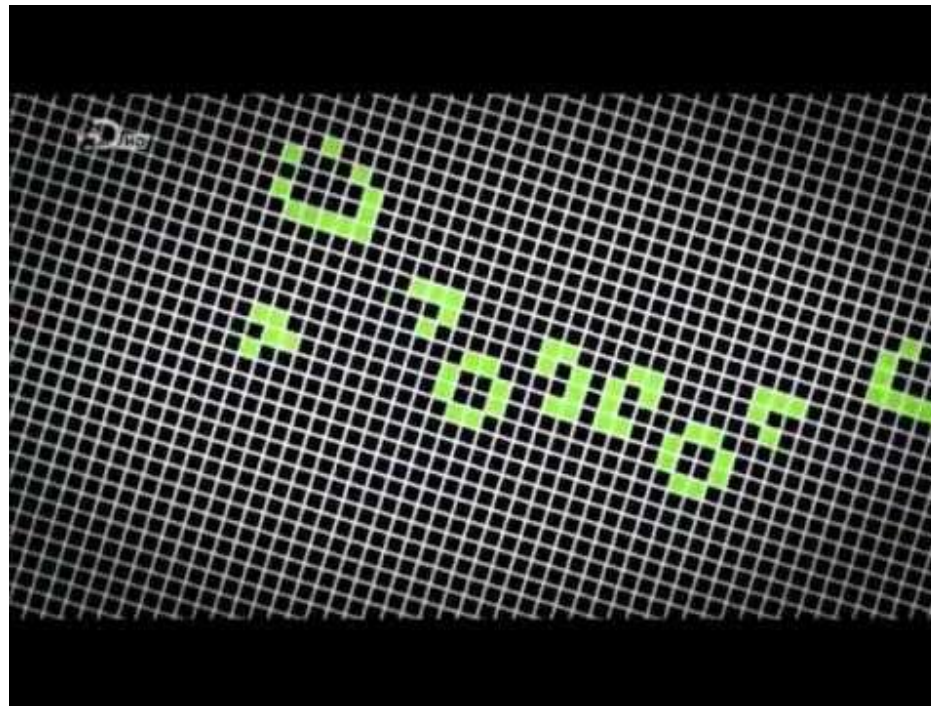


BU CodeBreakers 2017

Python Project: Game of Life

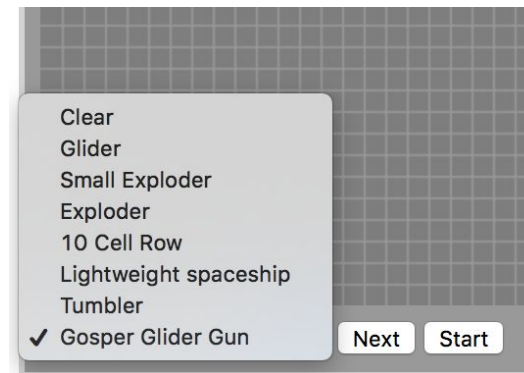
CONWAY'S GAME OF LIFE

Conway's game of life



Exercise (~10 mins)

1. Go to: <https://bitstorm.org/gameoflife/>
2. Run different simulations of the game



3. Try your own starting points in the *Clear* mode
4. Can you combine different combinations from before?
5. Can you find any configurations that run forever?



Form a group of 2/3 and discuss how
you'd code these game-rules

[~10 mins]

**Each group will come up, introduce
themselves and present their ideas**

Rules review

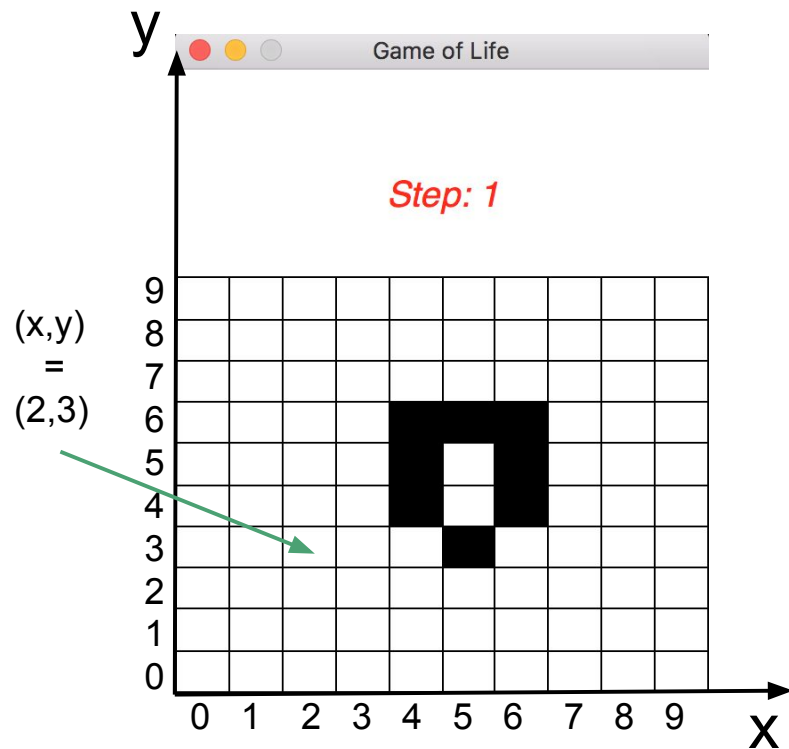
For each cell in the grid,

- What are the two states it can exist in?
 - alive & dead
 - What happens if the cell has less than 2 alive neighbors?
 - It dies due to isolation! :(
 - What happens if an 'alive' cell has 2-3 neighbors?
 - It stays alive! :)
 - What happens if a 'dead' cell has 3 neighbors?
 - It becomes alive! :D
 - What happens if the cell has more than 3 neighbors?
 - It dies due to overpopulation! :(
-

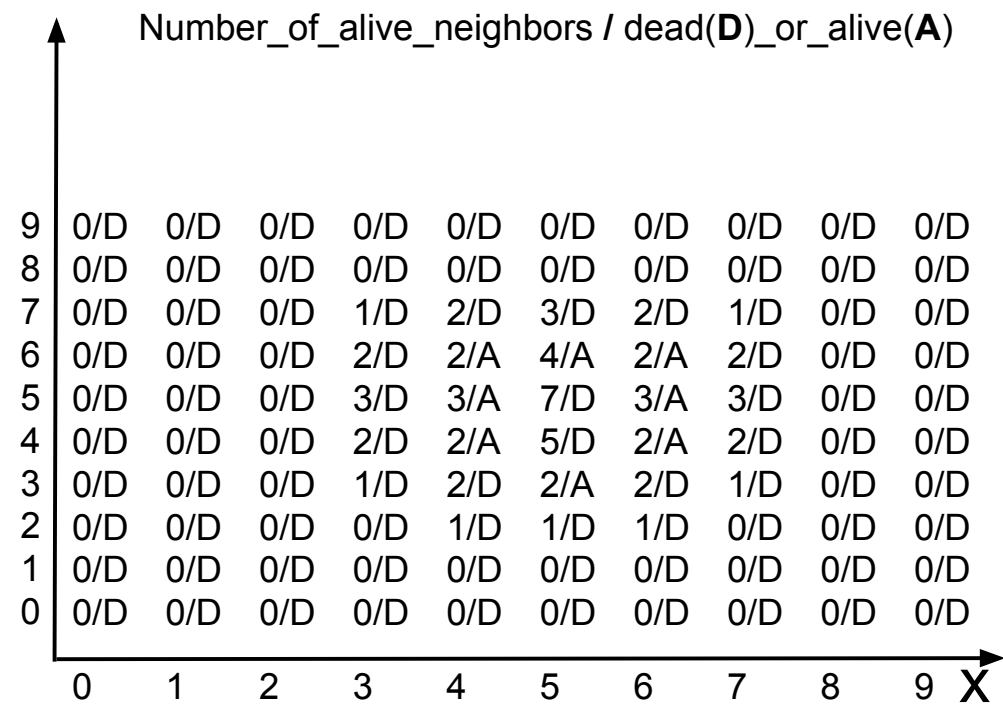
CODE DESCRIPTION

graphics.py + play.py

Grid



Matrix



LET'S START CODING!!



Week1 Survey

- Anything you'd like to share?
 - Suggestions
 - Complaints
 - Stories?
- End of Week-1 survey: <https://www.surveymonkey.com/r/S79W3FR>

