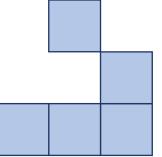
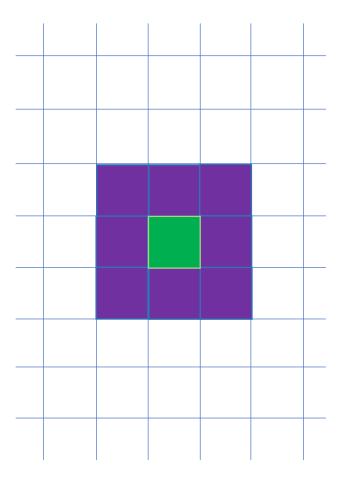
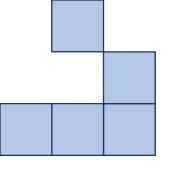


What is Conway's Game of Life?

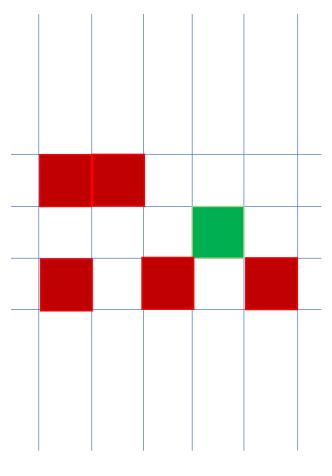


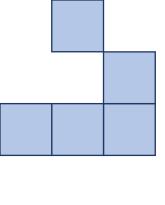




Underpopulation

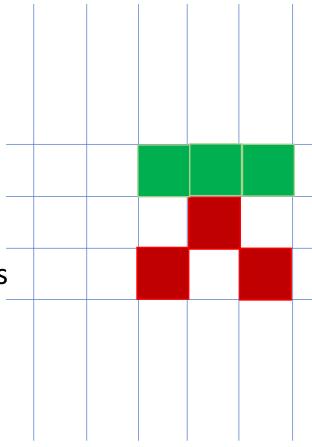
Any live cell with fewer than two live neighbors dies

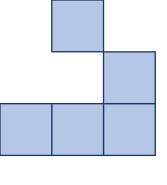




Overcrowding

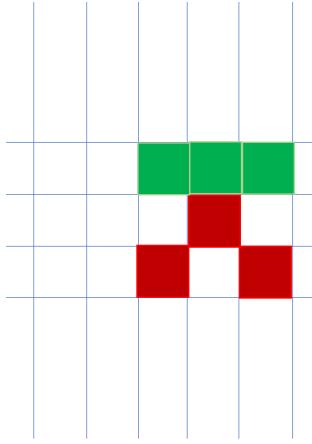
Any live cell with more than three live neighbors dies

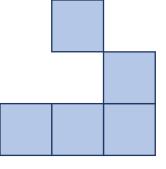




Survival

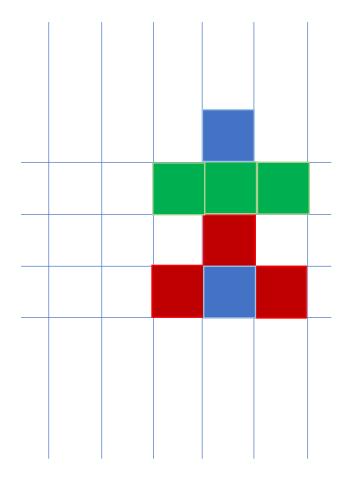
Any live cell with two or three live neighbors lives on





Birth

Any dead cell with three live neighbors will be born



Object examples:

Stable:













Oscillating:

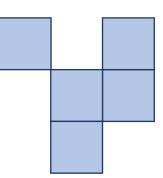


Glider:

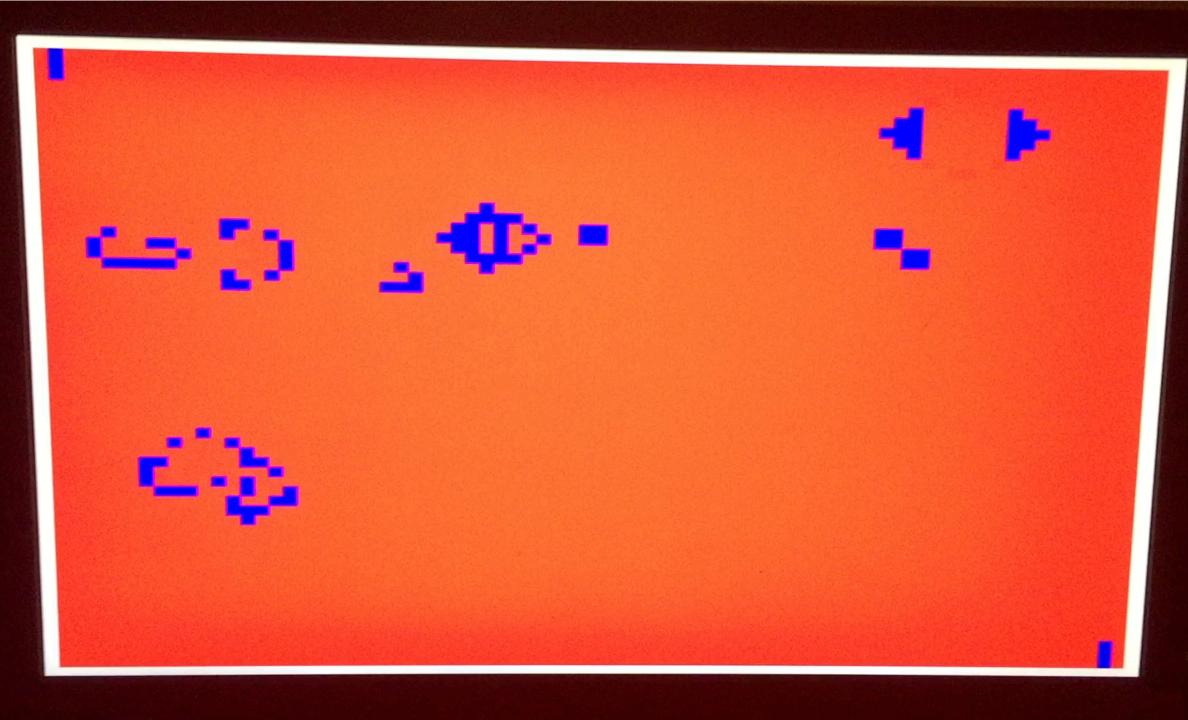
ù

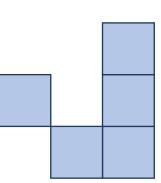
Special cases (f-Pentomino):

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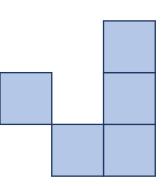


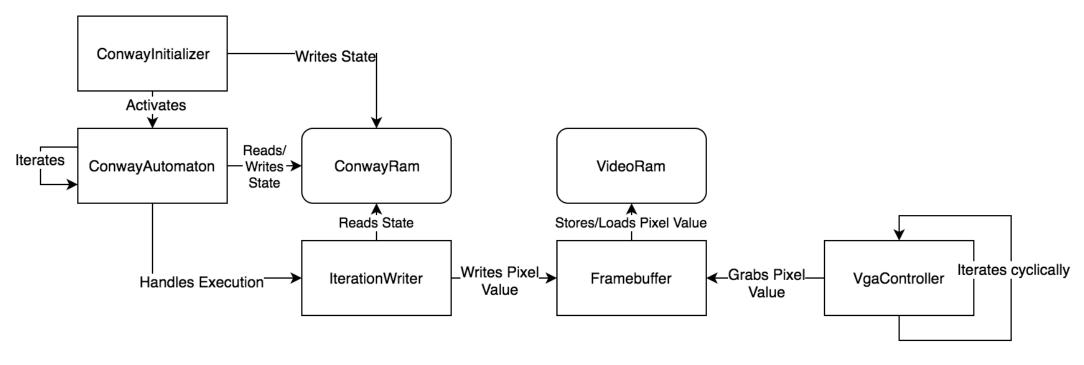
Live Demo

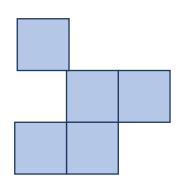




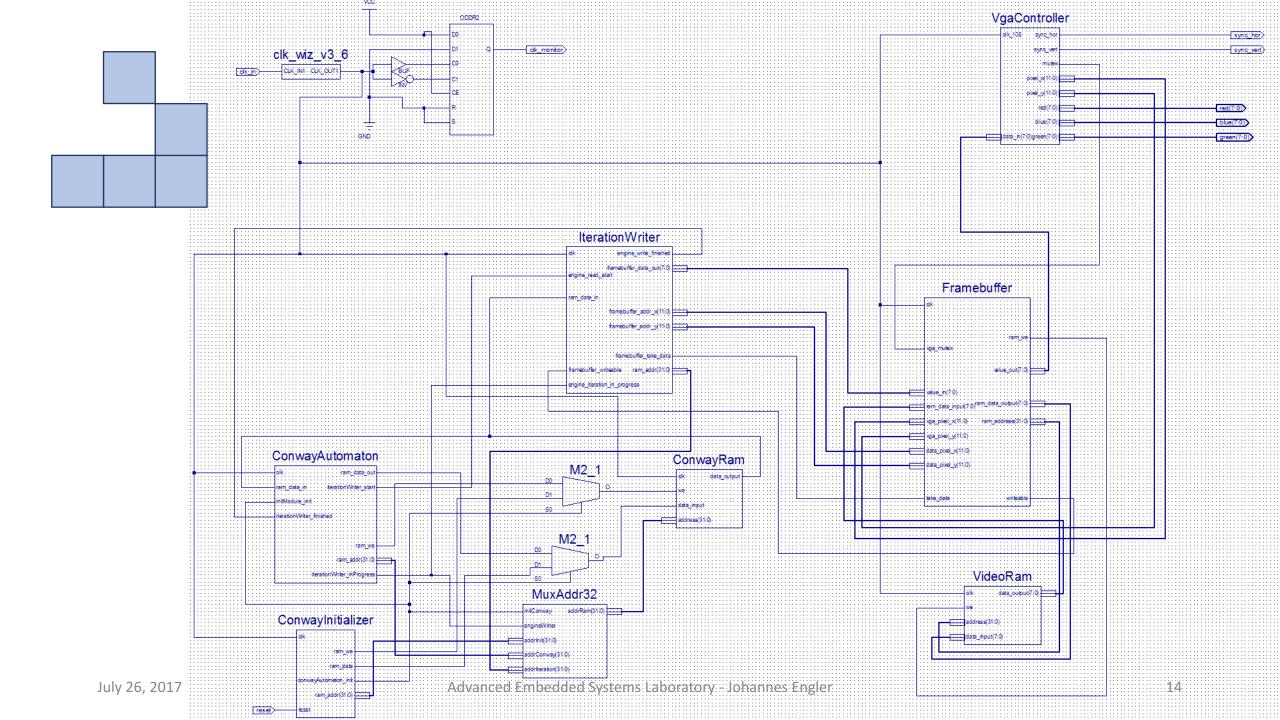
Process

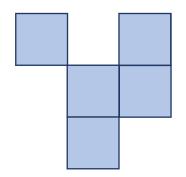






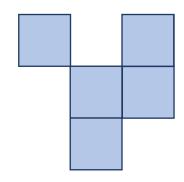
Implementation



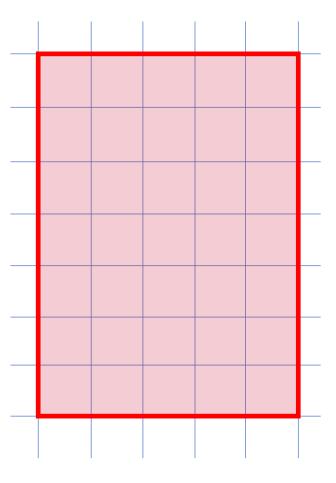


Design stupidity?

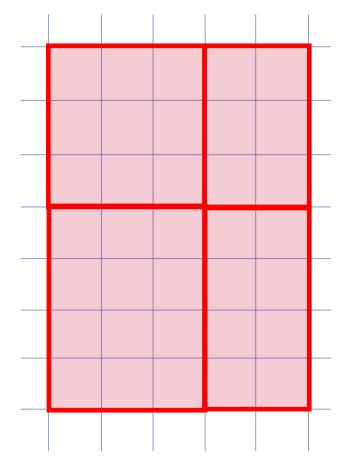
How the automaton could be even faster than it is right now?

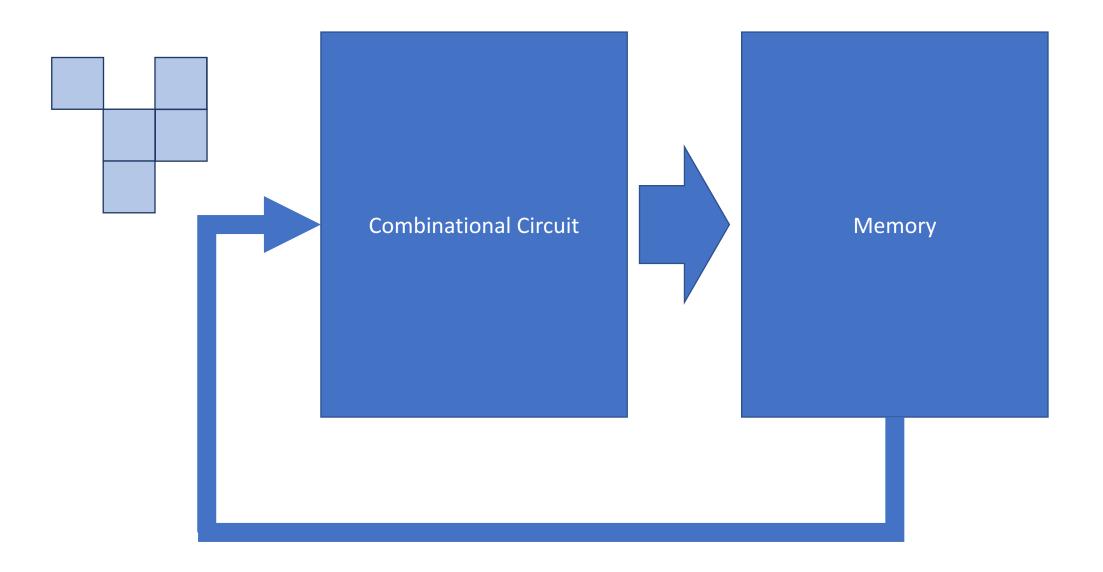


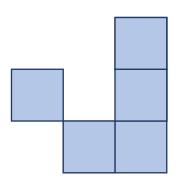
Current



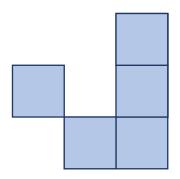
Possible

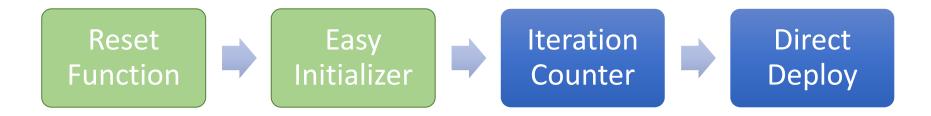


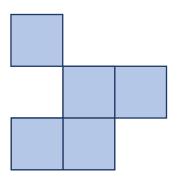




Possible Extensions







Thank you!

Feel free to checkout the project on GitHub:

https://github.com/johannes5117/ConwayVHDL-Spartan6

Images:

- Images on slide 8 are from Wikipedia:
 - https://de.wikipedia.org/wiki/Conways_Spiel_des_Lebens
- The other images were self-painted