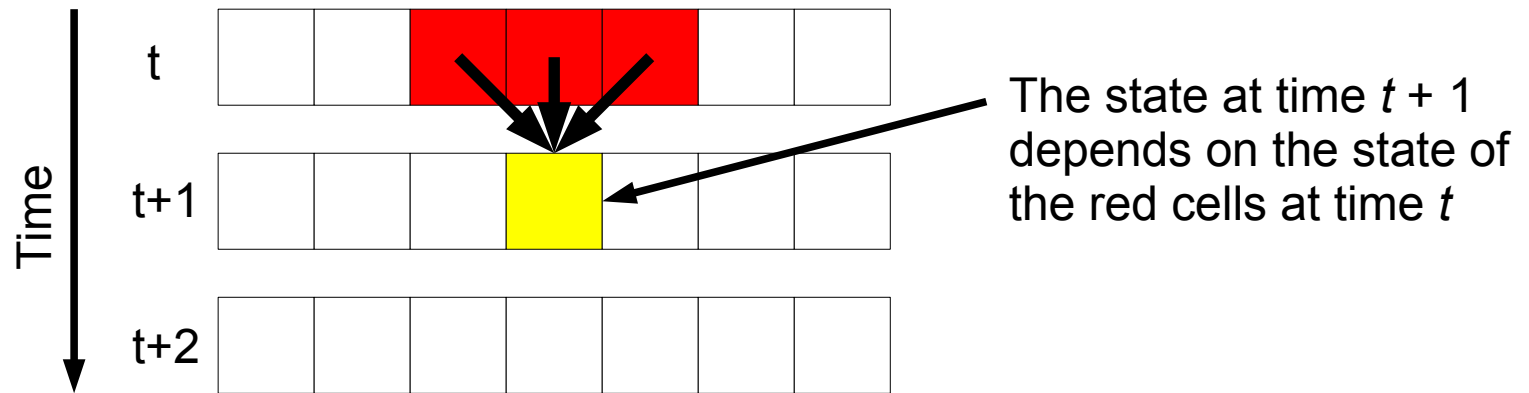
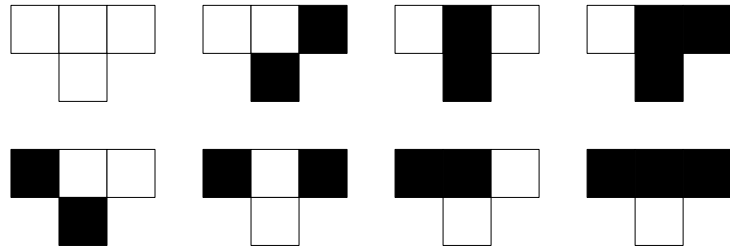


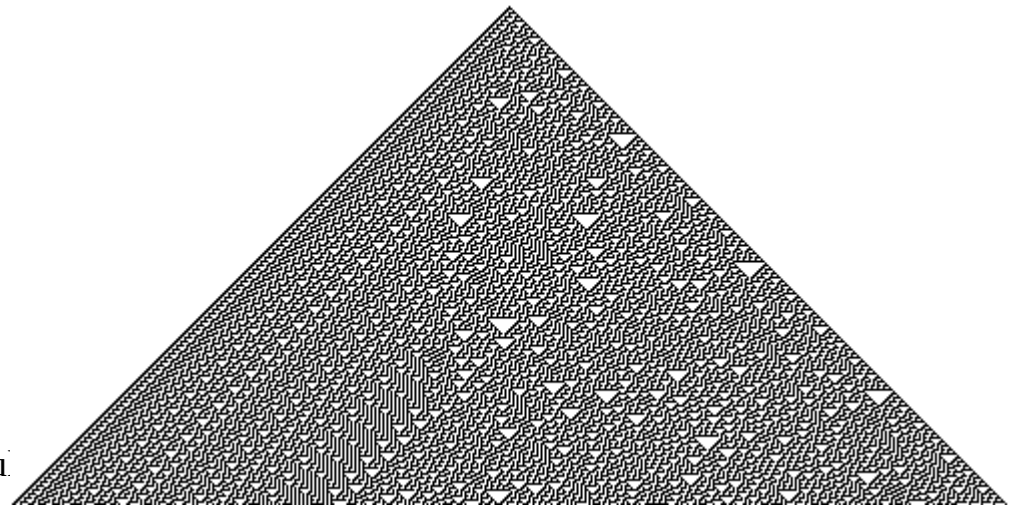
# 1D Stencil Example: Rule 30 Cellular Automaton



Rule 30 cellular automaton

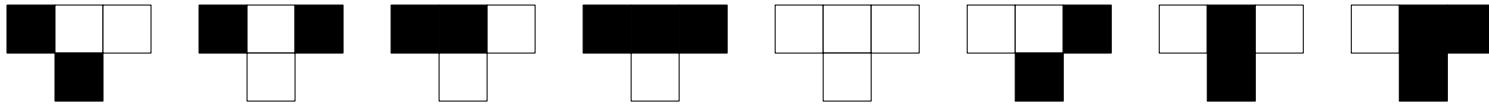


Rule



# Example

Rule 30 cellular automaton



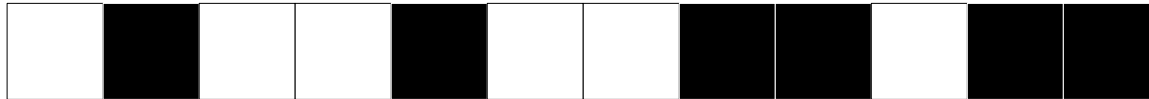
Initial  
configuration



Configuration  
at time 1



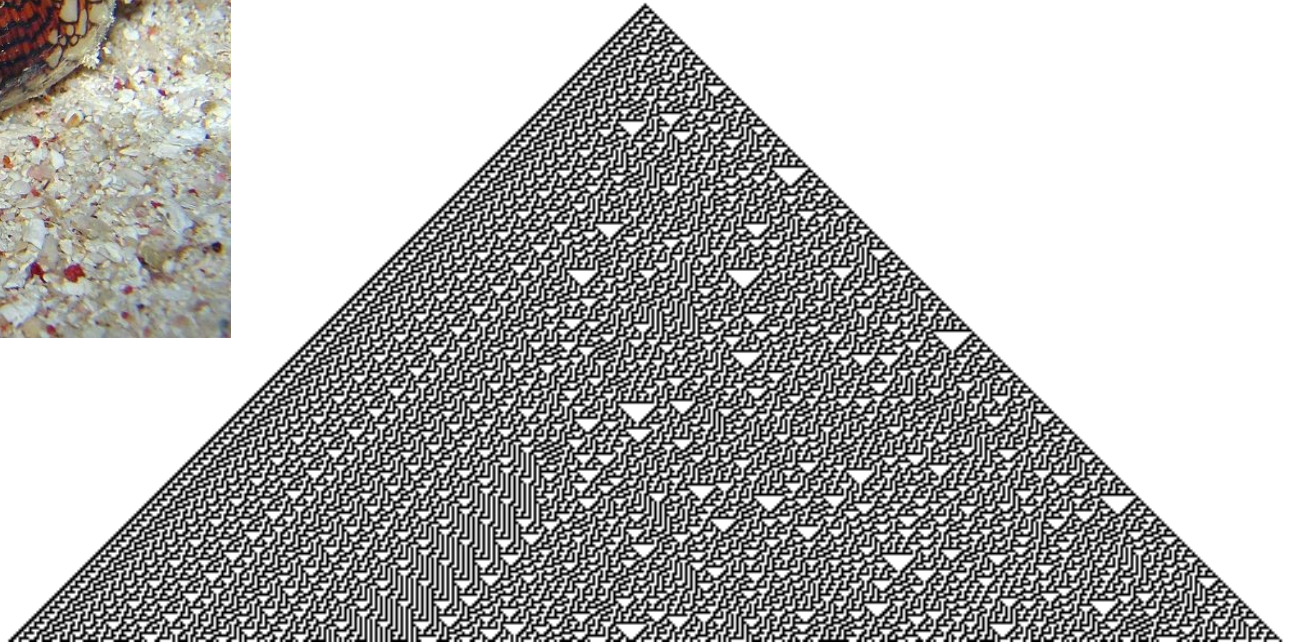
Configuration  
at time 2



# Rule 30 cellular automaton



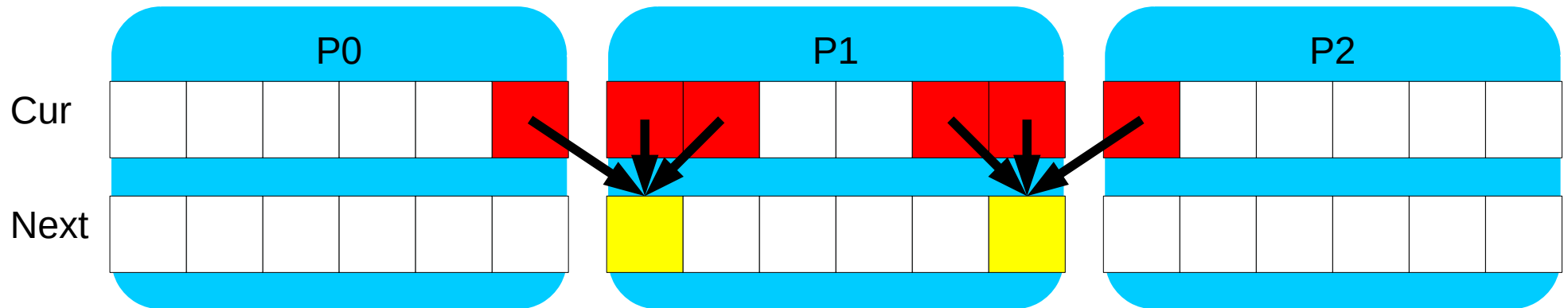
*Conus textile* shell



Rule 30 CA

# 1D Cellular Automata

- On distributed-memory architectures, care must be taken to properly handle cells on the border



- We use *ghost cells* to augment each sub-domain

# Example

Rule 30 cellular automaton

