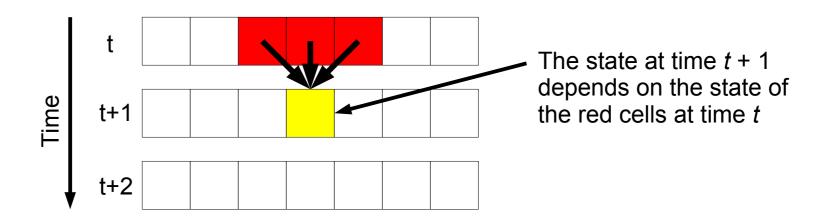
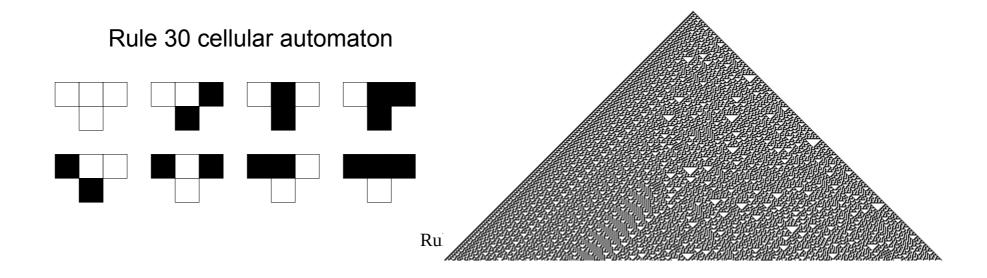
# 1D Stencil Example: Rule 30 Cellular Automaton





# Example

#### Rule 30 cellular automaton



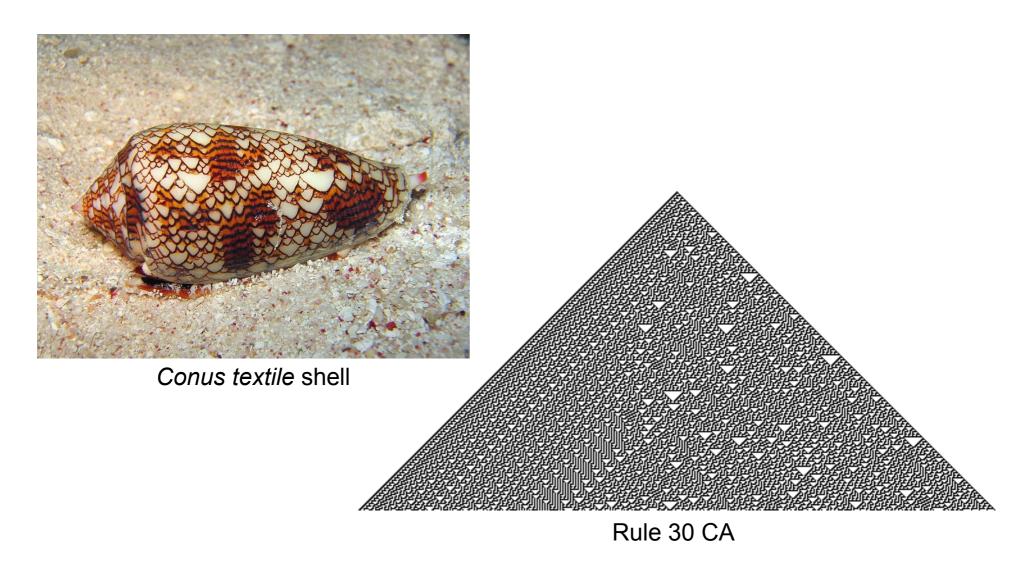
Initial configuration

Configuration at time 1

Configuration at time 2

Rule 30 CA 2

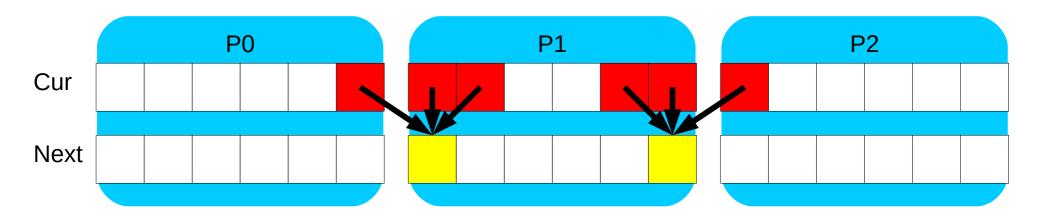
### Rule 30 cellular automaton



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

Rule 30 CA

## Example

Rule 30 cellular automaton

