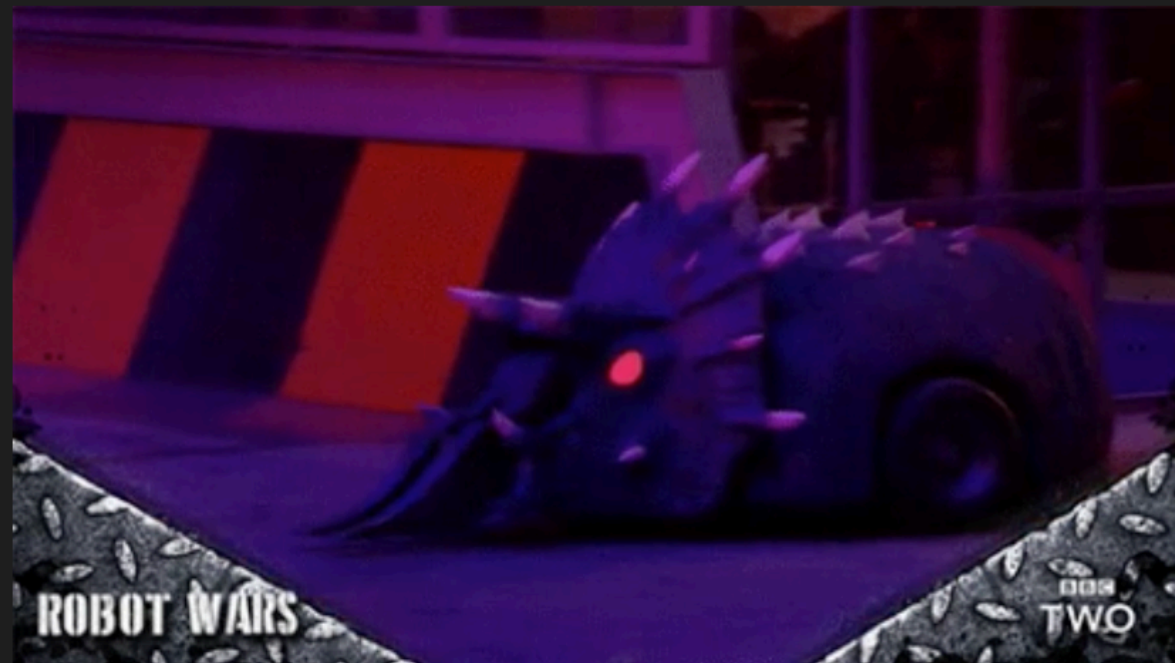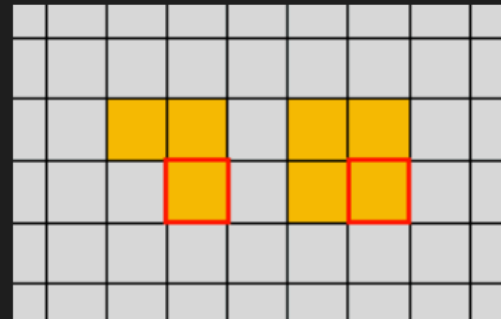# TEAM ROBOTWARS
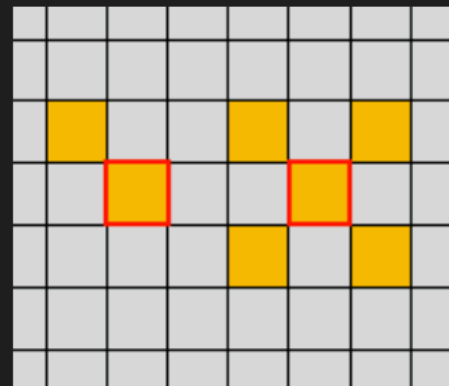

Peter Johnstone , Robert Clayton , Suzanne Huldt & Tiago Sousa

THE GAME OF LIFE AND DEATH

WILL STAY ALIVE NEXT ROUND :

WILL DIE NEXT ROUND :

WILL BIRTH NEXT ROUND :

1 **ROBOT VS ROBOT**

- The machines decide which move to make
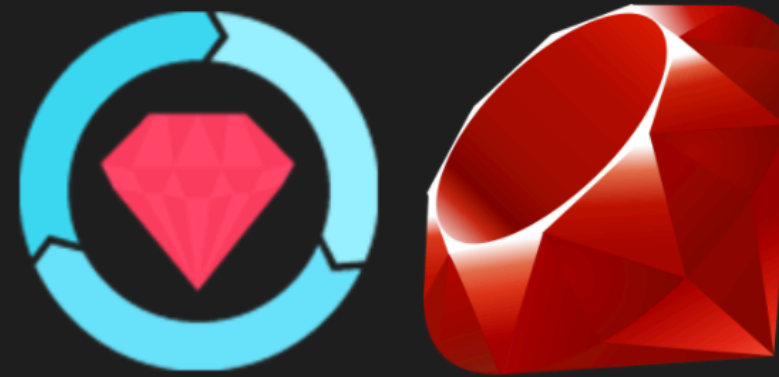
2 **TURN BASED**

- Kill
  - kill one square
- Birth
  - sacrifice two of your own cells to birth one
- Pass

3 **LAST ROBOT SURVIVING**

TECH
STACK

Our MVP is now available as the Ruby starter bot riddles.io

Programming languages & Starter bots

No starter bot available		>
Perl No starter bot available	⬇	>
Python 3 Starter bot by Riddles.io	⬇	>
Reason No starter bot available	⬇	>
Ruby Starter bot by robot-wars	⬇	>
Rust No starter bot available	⬇	>

Ruby

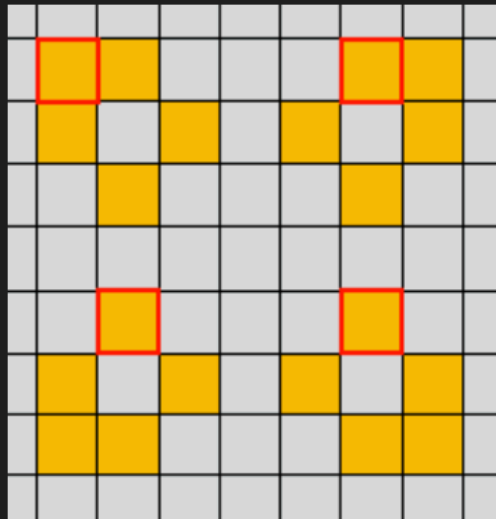**Version**
2.4.1

Particulars
The main .rb file should start with `#!/usr/bin/env ruby`, so the compiler can recognize it.
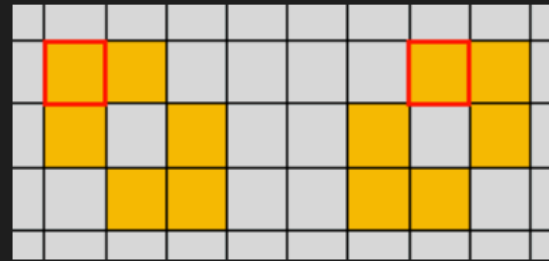
Starter bot
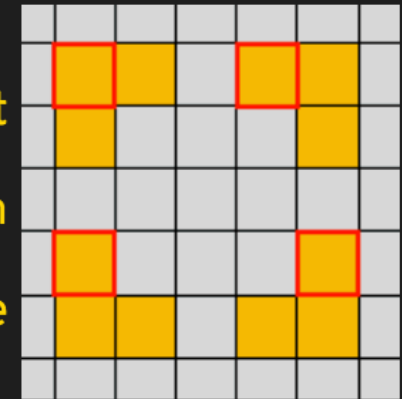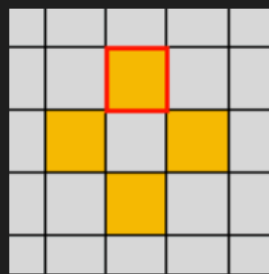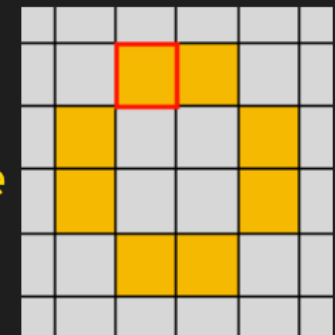Created by robot-wars

DOWNLOAD STARTERBOT

PATTERN MATCHING

Some cell patterns will be self-sustaining
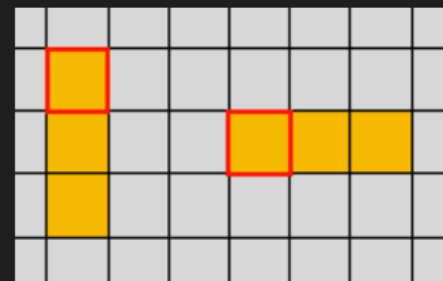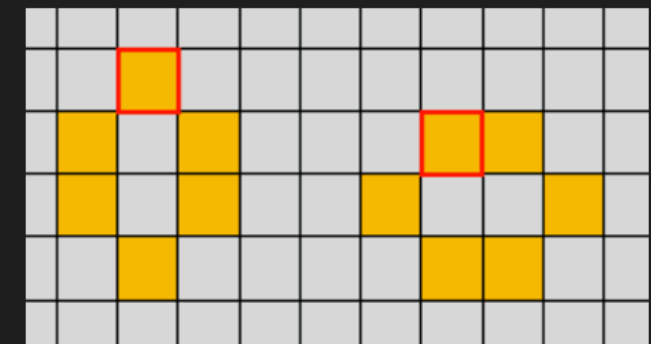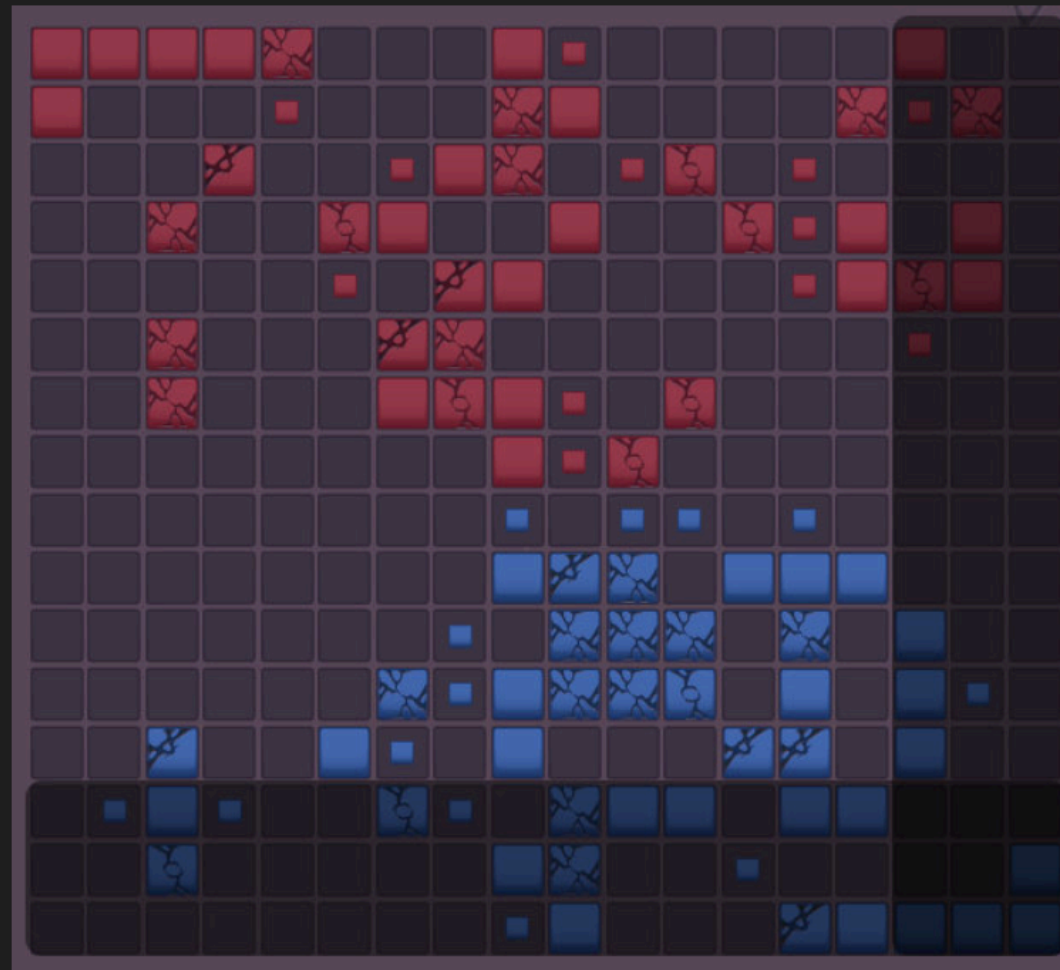
Boat

Ship

Next Gen Square

Tub

Package
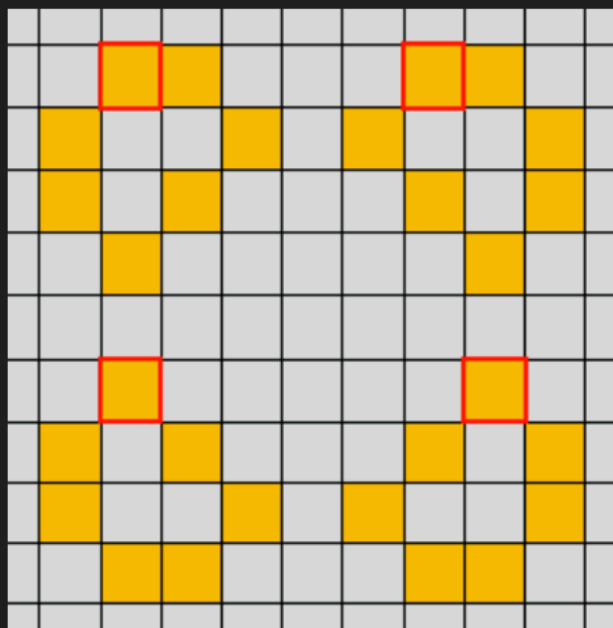
Loaf
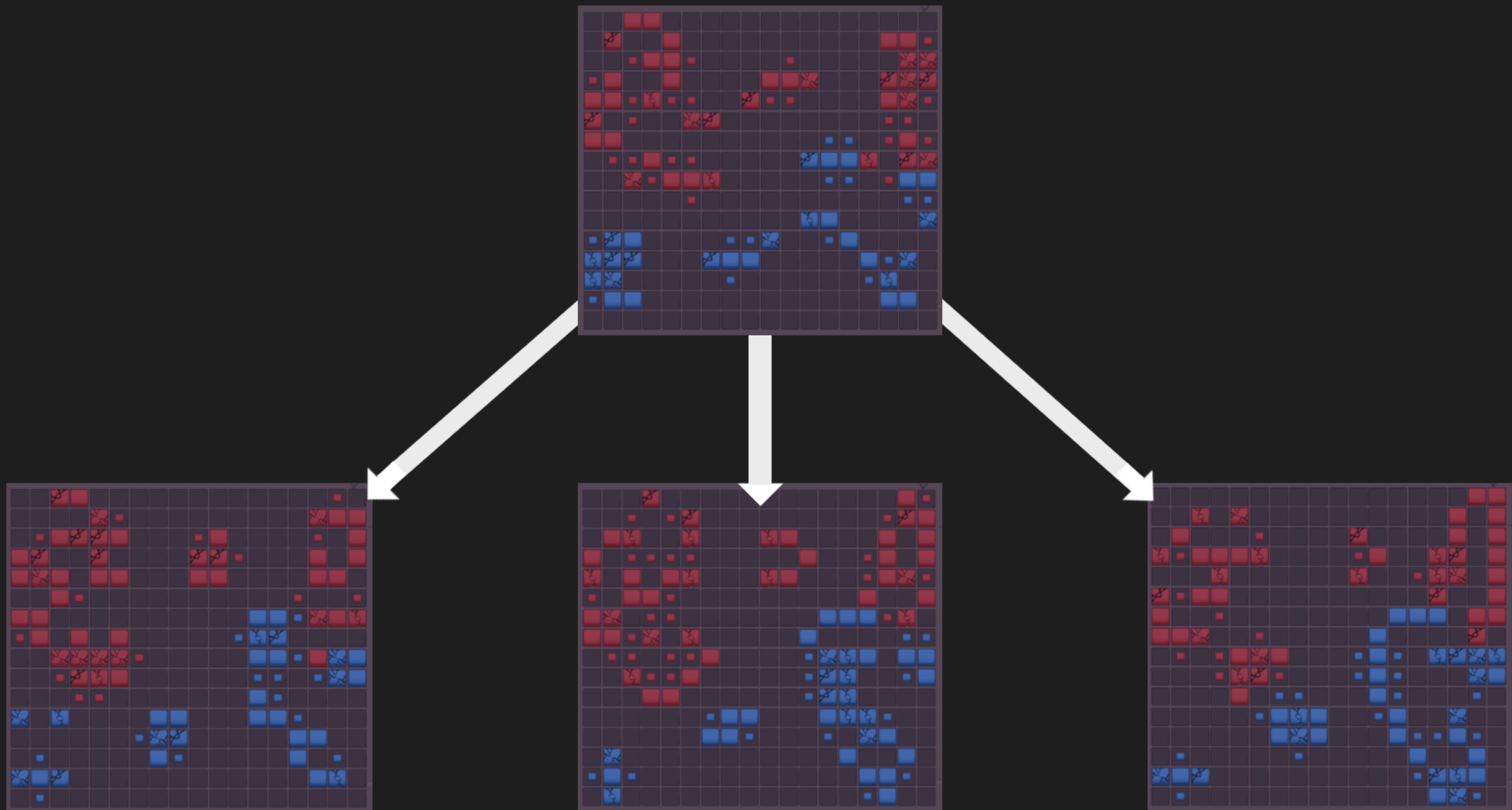
Blinker

Beehive

EFFICIENCY

1000 millisecond limit to make a move

93 searches less for each pattern

20 total pattern variations

DECISIONING
## LOOKING INTO THE FUTURE

TECHNICAL CHALLENGES & SOLUTIONS

1 **LINKING BOT TO WEBSITE FOR CONTINUOUS INFORMATION FLOW**

2 **OPTIMISING FOR DIFFERENT TYPE OF PERFORMANCE**

TEAMWORK SUCCESSES

1 GOOD BALANCE BETWEEN INDEPENDENCE AND COMMUNICATION

2 ACCOMMODATE DIFFERENT PERSONALITY TYPES AND WORKING STYLES

3 RELAXED AND FOCUSSED TEAM DYNAMIC MEANT WE HAD A LOT OF FUN

MEET FRANCINE