

Space Invaders Domain Analysis

Constants

- Images and sizes of tank, alien, and lasers
- Dimensions of board
- Dimensions of MTS
- different speeds of pieces
 - tank
 - lasers
 - aliens
- frequency of new aliens

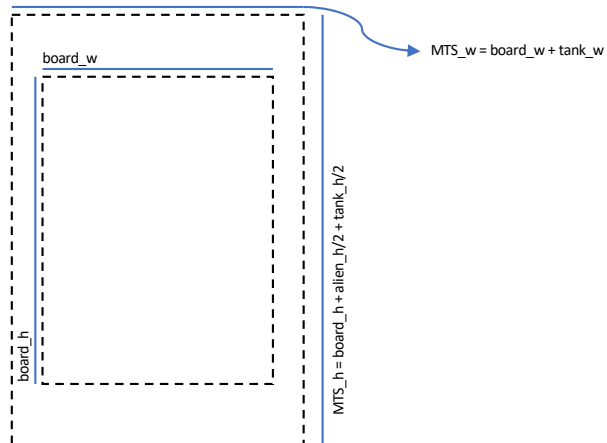
Changing

- Positions of tank, alien, and lasers
 - x position of tank
 - y position of lasers
 - x and y positions of aliens
- # of lasers and aliens that are on the board

Big-Bang

- On-tick
 - move existing pieces
 - check for laser and alien intersections
 - generate new alien piece
- To-draw
 - draw all the pieces from the current state
- On-key
 - on space shoot a laser from the tank
 - on left or right key change the direction the tank moves
- Stop-when
 - alien reaches the bottom of the board

Pictures



Alien



Tank