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What is Battleship?

- A classic two-player game.
- Each player sets up their five ships on a screen the other can't see, and then they try to sink each other's ships; whoever sinks them all first wins.



Data Structures

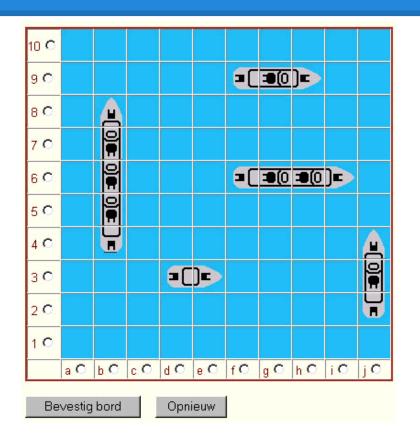
 LinkedList - list of top 5 scores, percentage of games won, average score. Note: score by number of shots required to win.

 Stack - undo purposes; will only remember the last 3 moves. May also add another stack for redo purposes.

Stages of Creation

Stages of Creation

- Boat size: 1x1, Grid size: 5x5
- Boat size increases, Grid size: 5x5
- Boat size varies, Grid size: 10x10



User Interface

Player

Hex: # 0080FF

Red: 0

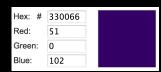
Green: 128

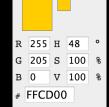
Blue: 255

Instructions

- 1)...
- 2)... 3)...

Banner





Computer

CC6600 Hex: #

Red: 204

Green: 102

Blue: 0

Sea (with white grid outline)

003366 Red: 0 Green: 51 Blue: 102

Hex: CC0000 Red: 204 Green: 0 Blue: 0

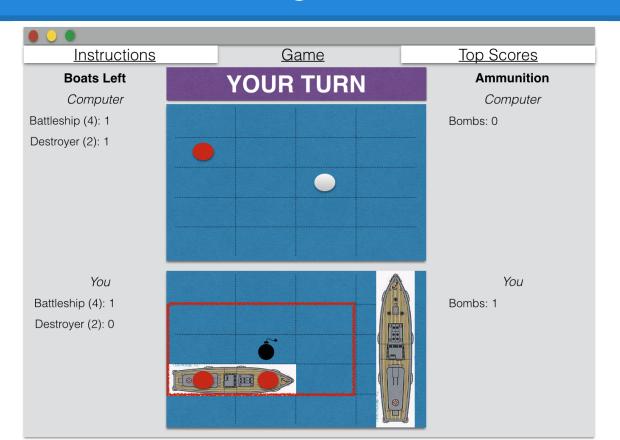
Miss

C0C0C0 Red: 192 Green: 192 Blue: 192

UI: GamePanel.java



UI: WelcomePanel.java



UI: StatsPanel.java

<u>Instructions</u>	<u>Game</u>	Top Scores
Top Scores		
	op ocore	3
Top E Coores	% of Compa Man	Avorage Coore
<u>100 5 5001es</u>	% of Games Won	Average Score
1		
2		
3		
4		
5		

Interesting and difficult parts

- Clickable cells to select where the start and end coordinates of the boat are (need to coordinate with underlying 2D array)
- Bombs (3x3 radius)
- Undo (and potential redo)

- Layering of cell and boat
- Computer shooting behavior

