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Battleship User Guide

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Introduction

The purpose of this document is to familiarize the user with the operation of the Battleship software project. Battleship is a software simulation of a popular board game, also called Battleship. Its purpose is to entertain a user, providing all the fun of the original Battleship game, even when the board game is not available. This makes it especially suited to situations such as meetings and waiting for airplanes. Battleship is supported on any platform that supports the Java Standard Edition 10.0.2 Runtime Environment, including support for the Swing Application Programming Interface.

Battleship was analyzed, designed, and implemented by Sam Haskins, a high school student residing in Ottawa, Ontario, Canada.

The most recent version of Battleship, 1.0.1, was released on November 27th, 2018, with two future releases anticipated.

Loading Instructions

Battleship may be loaded via clicking a provided shortcut or via launching the Battleship Java Archive directly. The first method, using a shortcut, is only available on platforms on which Battleship was installed using the Windows Installer method. For more details, consult Battleship's Installation Instructions. Procedures for both methods are provided in this section.

Text Instructions	Visual Instructions
 Ensure that Battleship was installed on the platform using the Windows Installer method. If it was not, this procedure cannot be used. For more details, consult the Battleship Installation Instructions. 	(Berg, 2015)

Procedure 1: Launching Battleship using a Shortcut

2) Double click the start menu or desktop shortcut. Both shortcuts work; it is recommended to use whichever is more convenient.	Image: segular all im
3) Battleship will start.	Alaman - 3 x. Hone ma
The procedure is complete.	ABCDEFGHIJ AA A A A A A A A A A A A A

Procedure 2: Launching Battleship's Java Archive

Text Instructions	Visual Instructions
1) Locate the "Battleship.jar" file in the directory where Battleship was installed. For more information, consult the Battleship Installation Instructions.	Games Calculator Sticky Notes Snipping Tool Paint Paint Remote Desktop Connection All Programs and files Search programs and files (Dodd)
2) Invoke the "Battleship.jar" file. On Windows platforms, this is accomplished via two clicks in rapid succession. This is referred to as a "double-click".	op ments loads s batteshipjar loads s batteshipjar loads s batteshipjar loads s batteshipjar loads s batteshipjar loads s batteshipjar loads s batteshipjar loads s batteshipjar loads s batteshipjar loads s batteshipjar loads s batteshipjar loads s batteshipjar loads s batteshipjar loads s batteshipjar loads s batteshipjar loads s batteshipjar loads s batteshipjar loads s batteshipjar loads s batteshipjar loads loads loa
3) Battleship will start. The procedure is complete.	ABCDEFGHIJ ABCDEFGHIJ 1 AA 2 A 3 A 4 A 5 6 7 8 9 0

Using Battleship's Features

This section of the User Guide describes Battleship's features and the procedures for using them. Before utilizing any of Battleship's features, the Battleship application must be launched; to do this, consult the previous section.

Select Type of Game

Description

The Select Type of Game dialog allows the user to select a game against the AI, or a two-player game.

Procedure 3: Select Type of Game

Text Instructions	Visual Instructions
1) To reach the "Select Type of Game" dialog, invoke the "Battleship > Select game type" menu entry. The dialog will also be shown when Battleship is first run.	Battleship Rotate Help Select game type Start new game Exit
2) Enter the desired selection using the provided radio buttons.	Select Type of Game Select Type of Game Select Type of Game Select Select



Sample Input

Sample input for the "Select Type of Game" dialog is "Game against the AI" or "Two-player game."

Sample Output

Sample output for the "Select Type of Game" dialog is a game against the Battleship AI or a two-player game.

The Battleship Boards

The Battleship Boards are the main component of Battleship's Graphical User Interface. A board is displayed for each player, including the AI if necessary. Two features of Battleship, placing a ship and firing, are exposed through the Battleship Boards.

Figure 1: The Battleship Boards (Game Start)

An annotated image of the Battleship Boards, describing the association of players to a board.



Figure 2: The Battleship Boards (Game End) Red squares are hit ships; Grey squares are hit yet empty.



Place Ship

Description

Placing ships is an important feature within the Battleship software project. To place a ship, click on the Battleship Board at the desired position. This can only be done on the board belonging to the current player. For example, on Player 1's turn, click on the first Battleship Board. Ships are always placed in the sequence of Aircraft Carrier, then Battleship, then Cruiser, then Submarine, then Destroyer.

Table 1: Types of Ships

This table contains information about the types of ships available in Battleship. It is organized by the order in which they are placed.

Name	Image
Aircraft Carrier	
Battleship	BBBB
Cruiser	CCC
Submarine	SSS

Destroyer

DD

Procedure 4: Place Ship

Text Instructions	Visual Instructions
1) Rotate the ship to the desired position using the keys "a" and "d" or the menu items "Rotate > Forward" and "Rotate > Backward".	ABCDEFGHIJ 1AAAA 2A 34 56 67 8 99 10
2) Place the ship at the desired position by clicking on the desired grid square.Hovering the cursor will preview the ship's placement.If the placement succeeds, the other player will subsequently be allowed to place a ship.	ABCDEFGHIJ ABCDEFGHIJ 12 3 3 4 5 AAAA 67 8 90 10
3) If the previous step did not succeed, go to step 2. Otherwise, the procedure is complete. The ship has been placed.	(Ciciliano, 2018)

Table 2: Place Ship Sample Input

Description	Image		
Player 1 placing an Aircraft Carrier with the default rotation at E-5.	ABCDEFGHIJ ABCDEFGHIJ 1 1 2 4 5 AA 6 A 7 A 9 0		
Player 1 placing a rotated Submarine at H-10.	ABCDEFGHIJ ABCDEFGHIJ 12 34 5 4 5 4 5 6 7 8 9 9 12 3 4 5 6 7 8 9 9 12 12 3 4 5 6 7 8 9 9 12 12 3 4 5 6 7 8 9 9 12 12 3 4 5 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8		
Player 2 placing a Destroyer with the default rotation at F-5.	ABCDEFGHIJ ABCDEFGHIJ ABCDEFGHIJ ABCDEFGHIJ AABBBBB AASSS A ASSS A A A A A A A A A A A A A		

Table	3:	Place	Ship	Sample	Output

Description	Image		
Player 1 placed an Aircraft Carrier with the default rotation at E-5.	ABCDEFGHIJ 1 3 4 5 4 5 4 5 6 7 8 9 10 10 10 10 10 10 10 10 10 10		
Player 1 placed a rotated Submarine at H-10.	ABCDEFGHIJ ABCDEFGHIJ BBBB CCC 4 5 AA 5 AA 5 AA 7 A 8 9 9 10 10 10 10 10 10 10 10 10 10		
Player 2 placed a Destroyer with the default rotation at F-5.	ABCDEFGHIJ ABCDEFGHIJ ABCDEFGHIJ AABBBBB AASSS 4 4 5 6 7 8 9 9 10		

Fire

Description

The "fire" feature of Battleship allows a player to fire at their opponent's board, once on each turn. This feature can only be initiated if it is the initiating player's turn. To fire, click on the desired cell on the opponent's board. After firing, the player's turn ends and control is passed to the other player.

Procedure 5: Fire

Text Instructions	Visual Instructions
1) Click on the cell to be fired upon. This cell must be on the opponent's board.	ABCDEFGHIJ A BBBB A CCC SSS 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2) If the cell fired upon had a ship in it, it will be colored red. Otherwise, it will be colored grey.	

3) If the game has not been won, control passes to the other player.		
The procedure is complete.	ABCDEFGHTJ 12 33 4 55 67 7 8 99	ABCDEFGHTJ 2 CCC 3 AA 5 DD 6 A 7 8 SSS 9 BBBB

Table 4: Fire Sample Input



Table 5: Fire Sample Output

Description	Image
Player 1 fired on A-4, but it was not a hit.	ABCDEFGHIJ ABBBB ABBBB ABBBB ABBBB ABBBB ABBBB ABBBB ABBBB ABBBB ABBBB ABBBB ABBBB ABBBB ABBBB ABBBB ABBBB ABBBB ABBBB ABBBB ABCDEFGHIJ ABCDEFG
Player 1 fired on J-5; it hit a ship.	ABCDEFGHIJ 123456789 10
Player 2 fired on F-9; it hit a ship.	ABCDEFGHIJ ABCDEFGHIJ 1 2 4 5 6 7 8 9 10 SSS 10 SSS

Start New Game

Description

The Start New Game feature of Battleship allows the user to start a new game of Battleship against the previously-selected opponent. For information on selecting an opponent, consult the "Select Type of Game" section of Battleship's User Guide.

Text Instructions	Visual Instructions
1) Invoke the "Battleship > Start new game" menu entry.	Battleship Rotate Help Select game type Start new game Exit
2) A new game of Battleship will be started against the previously-selected opponent.The procedure is complete.	ABCDEFGHIJ 1 3 4 5 6 7 8 9 10 1 1 1 3 4 5 6 7 8 9 10 10 10 10 10 10 10 10 10 10

Procedure 6: Start New Game

Sample Input

Sample inputs for the "Start New Game" feature include: start new game with an Al opponent selected, and start new game with a two-player game selected.

Sample Output

Samples outputs for the "Start New Game" feature include: a new game against an Al opponent, and a new two-player game.

About

Description

To find information about Battleship and the environment upon which it is running, use the "About" feature. This feature displays information about Battleship, Battleship's version, the version of the Java platform, and the operating system's architecture and version. To use this feature, consult procedure 7.

Text Instructions	Visual Instructions
1) To open the "About" dialog, invoke the "Help > About" menu item.	Battleship Rotate Help About
2) The about dialog will open, displaying information about Battleship and the platform.	About BattleshipImage: Strain S
3) To close the about dialog, click the "Close" button.	About Battleship × About Battleship × About Battleship is a fun Java Swing game Version 1.0.1 Author Sam Haskins Java RE Version 10.0.2 Version 10.1 Construction of Battleship icon is licensed from Icons8. For more details, please see THIRD-PARTY bt, included in your third of Battleship.

Procedure 7: About Battleship

Sample Input

Sample input for the "About" feature is limited to invoking the "Help > About" menu item.

Sample Output

The "About" feature will open the about dialog, displaying information about Battleship and the platform.

Rotate Menu

Battleship contains a "Rotate" menu. This menu can be used to rotate ships during ship placement. For more information, consult Procedure 4: Place Ship.

Exit

Description

Battleship contains an "Exit" menu item. This item, when invoked, exits the program. The operation of this feature is detailed in this section of the Battleship User Guide.

Procedure 8: Exit

Text Instructions	Visual Instructions
1) To exit Battleship, invoke the "Battleship > Exit" menu item.	Battleship - 0 × Battleship Rotate Help Select game type Start new game Ext
Alternatively, the exit button provided by the platform's window manager may be invoked with the same effect.	
2) Battleship will exit immediately.	
The procedure is complete.	
	(Gothelf, 2016)

Sample Input

Sample inputs for the "Exit" feature include clicking the menu item "Battleship > Exit" and clicking a platform window-manager defined close button.

Sample Output

The output of the "Exit" feature is Battleship immediately exiting.

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