2048

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DESCRIPTION

2048 is a game where you move tiles of small values into tiles of the same value in order to combine them into bigger values. The goal is to combine tiles until a tile with the value of 2048 is achieved.

SPECIAL FEATURES
- **Auto-merge:** this will mean that your tiles, when moved, will automatically merge with each other as they move up. If you have a column with a tile of value 4 at the top, and 2 tiles with value 2 underneath that, if you click up the tiles will automatically merge together and you will end up with a tile of value 8.
- **Multiple passes:** Every time you click a movement (up, down, left, right) button, the game will make two passes of that button press. You click up, it will move the tiles up twice by making use of while loops.
- **High scores:** This game can keep scores, and can also show you your high score.
- **More tiles:** When you run out of moves to make, but the board is not yet full, just click a direction button. Regardless of whether any tiles move, a new tile of value 2 will be created randomly.
- **Carefully make your last move:** When the board is full, make sure you plan your move. If you pick an incorrect move that does not result in tiles moving, you will lose the game. If you pick a move that results in a tile merging, you can keep going.

INSTALL INSTRUCTIONS

1. Install Java 8 (If you know you have it, go to step 2). To do so, go to https://java.com/en/download/ and click "Free Java Download". Follow the instructions there. If any help is needed, be sure to check the "Installation Instructions" or "System Requirements" on that page (after clicking "Free Java Download").
2. For your convenience, in the folder 2048App (under this folder) there is a file called "2048.jar". Double-click to start it. (If it does not launch, go to the troubleshooting section further down the guide). For usage instructions, see the next page. Alternatively, the source code is provided for you to build 2048 yourself should you wish to do that.

USAGE INSTRUCTIONS

1. Upon launching, you will see an introduction screen. This will have some brief information, and some buttons. If you have already played a game, you can view your high scores by pressing that button. Otherwise, press the Play 2048 button to start playing the game.
2. Use the buttons at the bottom (Up, Left, Right, Down) to move the tiles. A text area on the left will display each move you have done, and what happened during that move. Play until you reach 2048 and win, or lose by filling up the board.
3. If you fill up the board with tiles, simply pressing a button will cause the game to end in a loss if it is not a valid move.
4. When you win/lose, a dialog box will pop up for you to enter your name. Enter your name, and the high scores box will pop up.
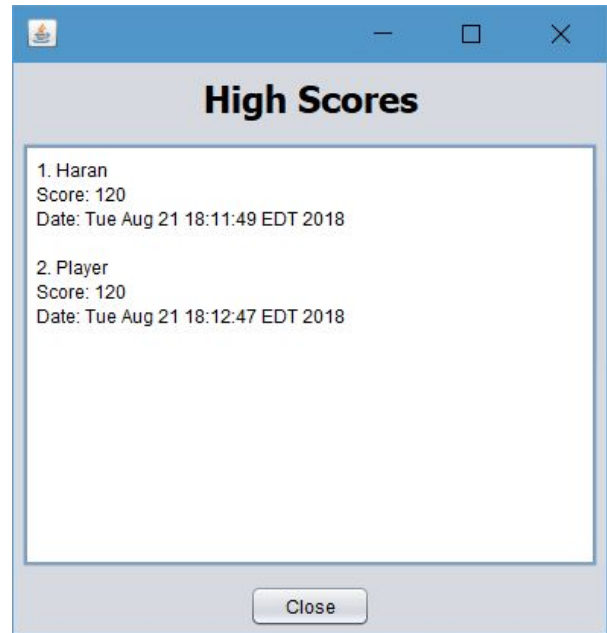
TROUBLESHOOTING

The program doesn't launch!

Chances are that the .jar file isn't set to run with Java. To do this (on Windows 10), right click the jar file, and click properties. Next to where it says "Opens with: ", there should be a chance button next to it. Click that, and if you see Java(TM) Platform SE binary in the list that pops up, click that. Otherwise, click more apps, scroll to the bottom, and click "Look for another app on this PC". Once you do that, a window should pop-up asking for a location. Look for a folder called Java, go into it, go into the folder that starts with "jre", go into the folder named "bin", and double click the file called "javaw". Now you should be able to run the program!
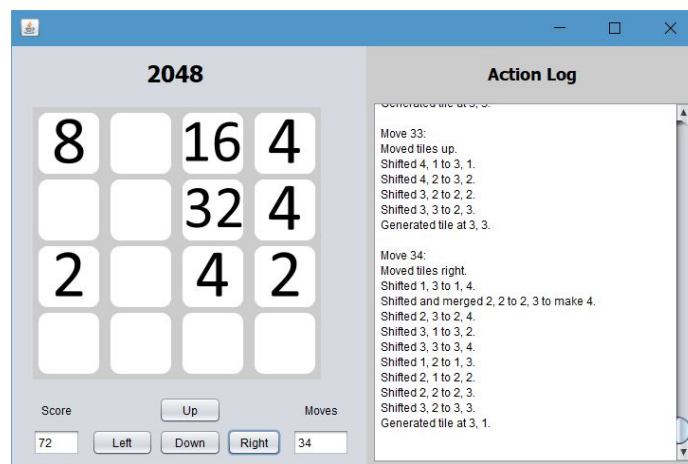
SCREENSHOTS

Introduction screen

The high score screen

Game screen

ACKNOWLEDGEMENTS