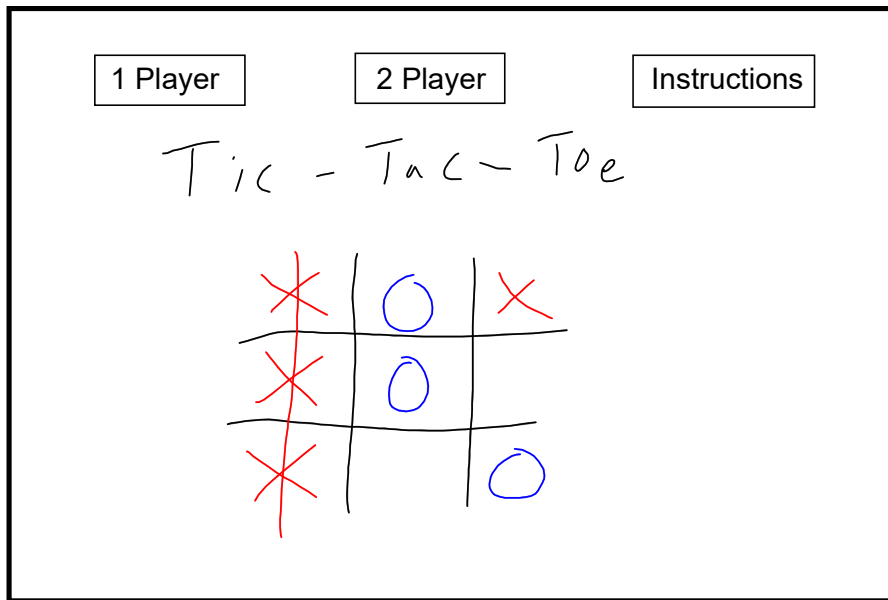


Tic-Tac-Toe Project

This project will allow either 1 or 2 players to play tic-tac-toe. In the 2 player version, players will take turns using the mouse to select the location for their next move. In the 1 player version the player uses the mouse and the computer will choose where to make its next move. When a player has clicked the mouse to place a piece that decision is final. There is no option for undoing a move. When the game starts, the user will be presented with a screen that lets them choose 1 or 2 player or to see the game instructions.








If they choose instructions they will go to a screen that gives instructions on how to use the program (in a actual proposal you should show what that screen would look like). Clicking the back button will take you back to the home screen.

2 Player Game

When the two player game starts, each player will be asked for their name and what colour they would like to use. The first player will always be X and get to go first. The second player will always be O. Here is the screen for choosing colours after the first player has entered their name:

Player 1 Name: Jane

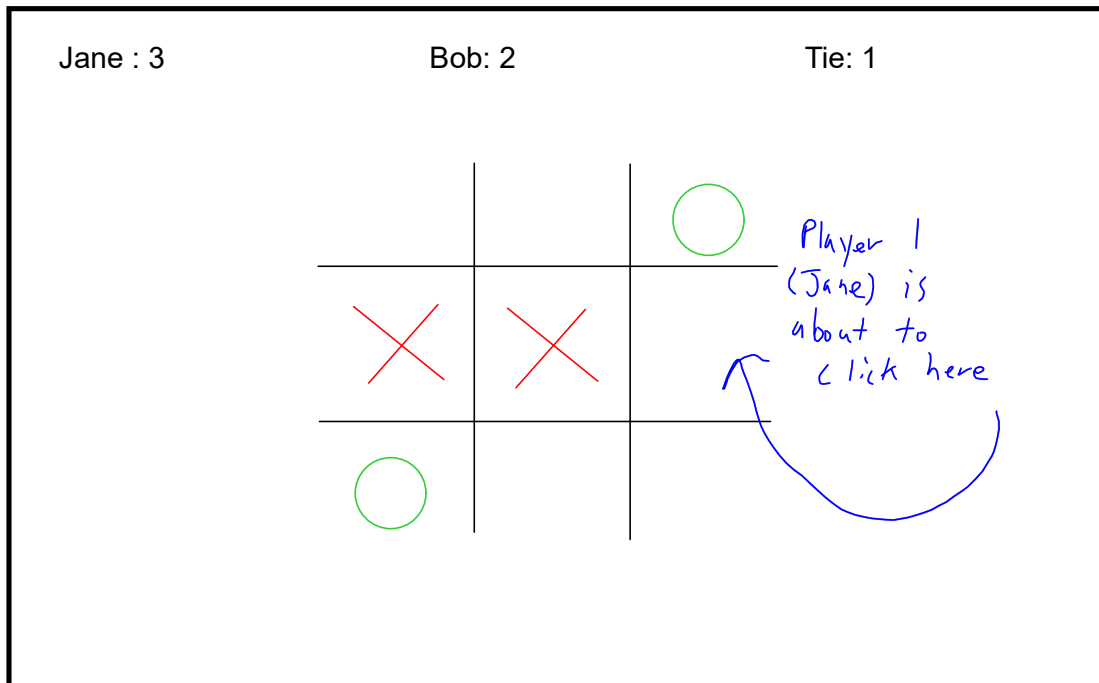
Click on colour you would like to play:



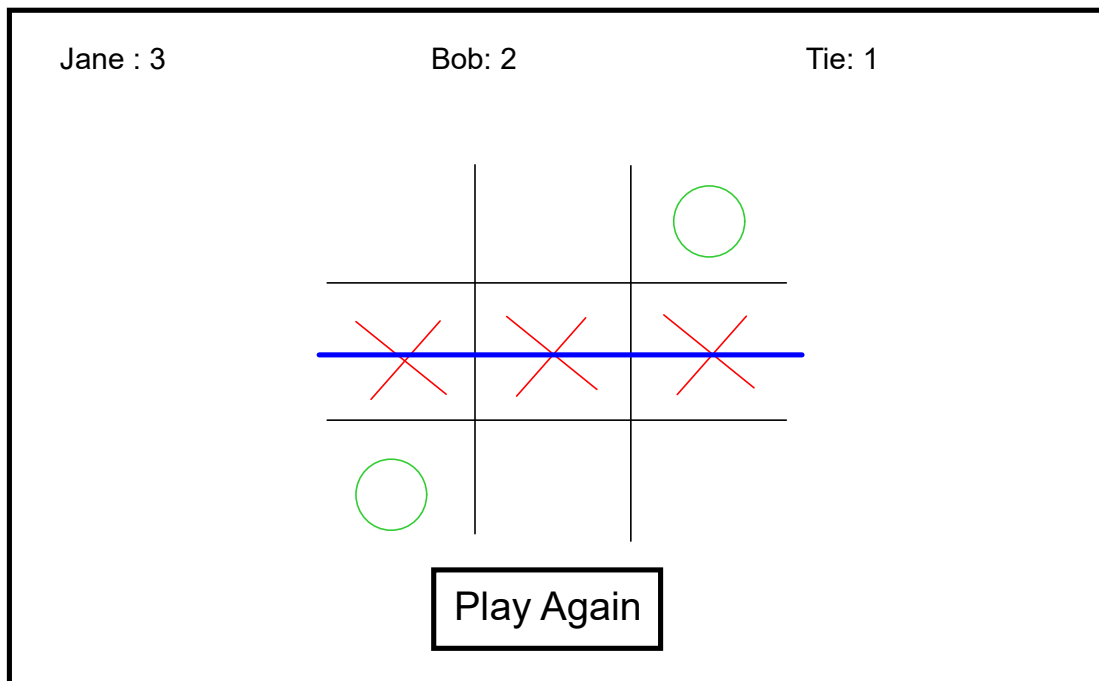
The second player will be able to choose their colour (from the same 5 colours, it is OK if they choose the same colour as Player 1) after entering their name.

The program will allow the players to play as many games as they like. It will keep track of how many games each player wins, and how many ties there are. After a game is over (either because someone won, or all the squares were used and there was a tie) a button will appear than says `Play Again`. After that button is clicked, the score will be updated and a new cleared board will appear. The program will automatically detect when one of the players has won.

An example of game play follows:



After she clicks there the game will recognize that she has won and the screen will look like this. After the `Play Again` button is clicked Jane will have a score of 4 and a blank board will appear so that another game can be played.



1 Player Game

When the one player game starts, the player will be asked for their name and what colour they would like to use, just like in the two player game. The player will always be X and get to go first. The computer player will always be O.

The computer will always make its play immediately after the player does. The computer will choose where to play based on the following rules:

- 1) If it can win it will place its piece there
- 2) If it can prevent the player from winning it will place its piece there
- 3) If neither of the above are possible, then choose a random available square

The rest is the same as the two player game. It will keep track of wins and ties and let the user play multiple games.