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N220
Aug 8th, 2023

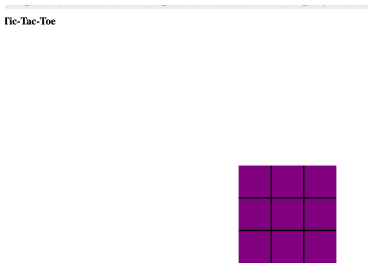
Final Project

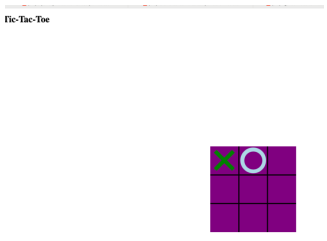
https://rkkuhn.github.io/N220Spring2023/

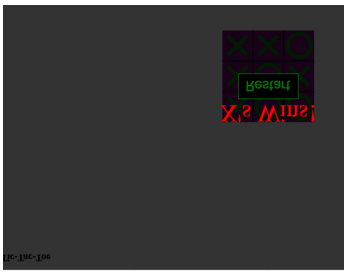
Algorithm 1st Project – Tic-Tac-Toe

Requirements: Typical Tic-Tac-Toe game. X will always go first. Created three files, index.htm for the div files, style.css to add all the style designs, and app.js, where we find all the JavaScript (JS). I removed the outside border to show how kids usually draw the game. Then I used the background color purple, as if the kids were using colored paper for the game. The X and O's are each a green color. I also spent time and ensured the 0 on the inside was purple. Then I created a hover feature that shows whose turn it is. It will show whether the person can put their letting in that square. Finally, the program runs through a JS algorithm to determine if there is a winner, which is the winner or a DRAW. Once this happens, a popup menu will appear with text and reset the board to empty.

Expected Output:







Sudo Code:

Create the div ID = “myDiv”

The style will be set with width and height to 100px and the background color to blue.

Create two scripts:

One that changes the color to black when the mouse is inside the square.

Two changes back to blue when the mouse is outside the square.

Reflection: I think the hardest one to code was the first assignment, “FizzBuzz.” I had to research on the internet to get my circles, squares, and colors to work correctly. I did use Stack Overflow. I enjoyed the challenge and kept at it until I found a working solution. The “Circles Inside of Circles” was easy. I remembered it from our lecture. For the “Pyramid” one, I had to laugh when I saw the comment, “Use nested loops”. Professor Harris docked me on my final project for using nested loops. I am pretty good at writing nested loops. I know he wanted me to expand my knowledge and try to code it in a different way.