TIC-TAC-TOE

Project 1 for SEI

The Plan

- To create a # column in html using css and to allow two players to switch their turns
- 2. Each player will have their own symbol in the game
- When one player place his/her symbol in one block, he/she is not allow to change decision. Another player is not allow to choose those occupied blocks
- 4. To have a function to check whether there is another matching line after each player's turn
- 5. If there is a winner, immediately disable all blocks and announce the winner. If all blocks taken up, announce draw.
- To record the score for each player or time of draw. Scores will continue to increase unless you refresh the page.

Challenges

- 1. How to check matching line? If there is matching line, how do we know who is the winner?
- 2. To insert audio
- 3. To assign score
- 4. To strike through the winning line / to change color for the winning line Fail
- 5. To put timer so that each player only have 10 seconds to make decision on which block to place their symbol Fail
- 6. A pop out to announce winner Fail

How to check for win

How to define matching line? - To have three same symbol in a line.

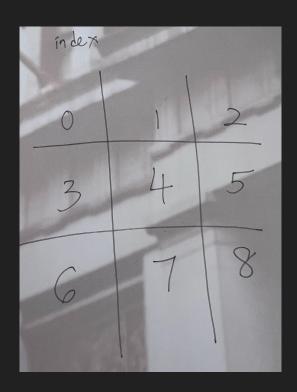
Eg. indexA = indexB = indexC

2. List out which line to check

$$[0,1,2]$$
, $[3,4,5]$, $[6,7,8]$

$$[0,3,6]$$
, $[1,4,7]$, $[2,5,8]$

[2,4,6], [0,4,8]



How to check line by line for those indexes?

- 1. Create a function to check for same text content first.
- 2. Create a function to check for matching for those possible lines.
 - A for loop to check row by row
 - Another for loop to check column by column
 - And also to check the two cross lines
- 3. Once we have a matching line, return the first block in the winner line.
- Extract the text content in the winner block and check whether it is player 1 or player 2

Lessons Learned

- 1. Don't rush into coding
- 2. Do some research and drop down all the important parts
- 3. Keep it simple

How would you do it differently

- 1. To let user insert their preferred symbol to represent themselves
- 2. To create a game mode for letting 1 player to play with the computer
- 3. To think of another method for checking the matching line
- 4. Put more effort in researching so that I can do more with CSS eg. fancy background, pop out to show winner, nicer font

The End

Thank You