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DGMD E-28 – Developing Single-Page Web Applications
Assignment 2 – Tic-Tac-Toe
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Web Link: https://dcardonab.github.io/DGMDE-28 SPA/assignments/A2/assignment2.html

The section of code that I'm most proud of is the communication between Javascript and CSS. I set an <code>empty</code> class to change background color as the player hovers over empty cells. When a cell is played, the <code>empty</code> class is removed (removing the hovering effect), and an <code>X_player</code> or an <code>O_player</code> class is added to indicate the color of the displayed text. If the player plays an occupied cell, they are notified that the cell is occupied. The manipulation of classes can be seen in the <code>play_move</code> function below, which uses string concatenation and a ternary operator:

```
function play_move() {
   // Only allow user to input moves in PLAY state
   if (PLAY STATE) {
       cell = this;
       // Clear messages on each move
       document.getElementById('messages').innerHTML = '';
       if (cell.classList.contains('empty')) {
           // Style and add player's the icon to the cell
           cell.classList.add(CURRENT_PLAYER + '_player');
           cell.innerText = CURRENT_PLAYER;
           // Switch player
           CURRENT_PLAYER = CURRENT_PLAYER === 'X' ? '0' : 'X';
           // This will also prevent changing background when hovering
           cell.classList.remove('empty');
           // Check if the move caused a player to win.
           check winner();
       }
       else
           display_message("You must play and empty cell!");
```