

## Github URL

**W02-P1: checkWin to determine who wins, you need to create four images as said in class**

The image displays a web development project in Visual Studio Code and a browser preview. The project is titled "tictactoe\_xx.html" and "tictactoe\_xx.js".

**HTML File (tictactoe\_xx.html):**

```
1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <meta charset="UTF-8" />
5     <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
6     <meta http-equiv="X-UA-Compatible" content="IE=edge"/>
7     <title>TicTacToe</title>
8     <link rel="stylesheet" href="style.css"/>
9   </head>
10  <body>
11    <div id="container">
12      <header>
13        <h1>Tic Tac Toe - 123456789</h1>
14      </header>
15      <ul id="board">
16        <li class="o">O</li>
17        <li></li>
18        <li class="o">O</li>
19        <li class="x">X</li>
20        <li class="x">X</li>
21        <li class="x">X</li>
22        <li class="o">O</li>
23        <li></li>
24        <li></li>
25      </ul>
26      <div>
27        <button id="reset">Reset</button>
28      </div>
29    </div>
30    <script src="tictactoe_xx.js"></script>
31  </body>
32 </html>
```

**JavaScript File (tictactoe\_xx.js):**

```
4 console.log(allli, allli);
5
6 const checkWin = (player) => {
7
8   let p = [];
9   allli.forEach( (item) => {
10     p.push(item.classList.contains(player));
11   });
12   console.log('p', p);
13
14   const [p1, p2, p3, p4, p5, p6, p7, p8, p9] = p;
15
16   if(
17     (p1 && p2 && p3) ||
18     (p4 && p5 && p6) ||
19     (p7 && p8 && p9)
20   ) {
21     return true;
22   }
23   else {
24     return false;
25   }
26 }
27
28 const reset = () => {
29   allli.forEach( (item) => {
30     item.textContent = '+';
31     item.classList = '';
32   });
33 }
34
35 console.log('checkWin(o)', checkWin('o'));
36 console.log('checkWin(x)', checkWin('x'));
```

**Browser Preview:**

The browser shows a Tic Tac Toe game interface titled "Tic Tac Toe - 123456789". The board is a 3x3 grid. The first row contains 'O', '+', 'O'. The second row contains 'X', 'X', 'X'. The third row contains 'O', '+', '+'. A "Reset Game" button is at the bottom. A red box highlights the second row, indicating a win for 'X'.

**DevTools Console:**

```
allli > NodeList(9) [li.o, li, li.o, li.x, li.x, li.x, li.o, li, li]
p > (9) [true, false, true, false, false, false, true, false, false]
checkWin(o) false
p > (9) [false, false, false, true, true, true, false, false, false]
checkWin(x) true
```

## W02-P2: O win (9 times), X wins (8 times), tie (9 times)

← → ↻ ⓘ 127.0.0.1:5501/demo/w02-tictactoe/tictactoe\_xx... 📄 🔍 📁 ☆ ⚙️ 🖼️ 👤 ⋮

Tic Tac Toe - 123456789

O	O	X
X	O	O
X	O	X

Reset Game

DevTools is now available in Chinese!

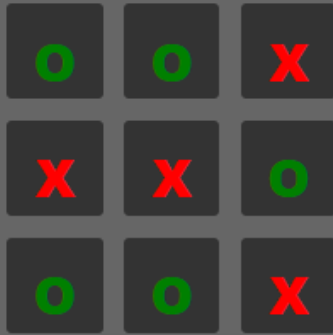
Always match Chrome's language Switch DevTools to Chinese

Don't show again

🔍 📄 Elements Console >> 1 ⚙️ ⋮

```
<!DOCTYPE html>
<html lang="en">
  <head>...</head>
  <body>
    <div id="container" style="background-color: rgba(
      4, 238, 144, 0.5);">
      <header>...</header>
      <ul id="board"> flex
        <li class="o disabled">O</li>
        <li class="o disabled">O</li>
        ... <li class="x disabled">X</li> == $0
        <li class="x disabled">X</li>
        <li class="o disabled">O</li>
        <li class="o disabled">O</li>
        <li class="x disabled">X</li>
        <li class="o disabled">O</li>
        <li class="x disabled">X</li>
      </ul>
      <footer>...</footer>
    </div>
    <script src="./tictactoe_xx.js"></script>
    <!-- Code injected by live-server -->
    <script>...</script>
  </body>
</html>
```

## Tic Tac Toe - 123456789



Reset Game

DevTools is now available in Chinese!

Always match Chrome's language

Switch DevTools to Chi

Don't show again

Elements Console >> 1

```
<!DOCTYPE html>
<html lang="en">
  <head>...</head>
  <body>
    <div id="container">
      <header>...</header>
      <ul id="board"> flex
        <li class="o disabled">O</li>
        <li class="o disabled">O</li>
        ... <li class="x disabled">X</li> == $0
        <li class="x disabled">X</li>
        <li class="x disabled">X</li>
        <li class="o disabled">O</li>
        <li class="o disabled">O</li>
        <li class="o disabled">O</li>
        <li class="x disabled">X</li>
      </ul>
      <footer>...</footer>
    </div>
    <script src="./tictactoe_xx.js"></script>
    <!-- Code injected by live-server -->
    <script>...</script>
  </body>
</html>
```

Tic Tac Toe - 123456789

O

+

O

X

O

O

X

X

X

Reset Game

DevTools is now available in Chinese!

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Switch DevTools to Chinese

Don't show again

Elements

Console

1

<!DOCTYPE html>

<html lang="en">

<head>

</head>

<body>

<div id="container" style="background-color: rgba(0, 118, 128, 0.725);">

<header>

<ul id="board">

flex

<li class="o disabled">O</li>

<li>+</li>

<li class="o disabled">O</li> == \$0

<li class="x disabled">X</li>

<li class="o disabled">O</li>

<li class="o disabled">O</li>

<li class="x disabled">X</li>

<li class="x disabled">X</li>

<li class="x disabled">X</li>

</ul>

<footer>

</div>

<script src="./tictactoe\_xx.js"></script>

<!-- Code injected by live-server -->

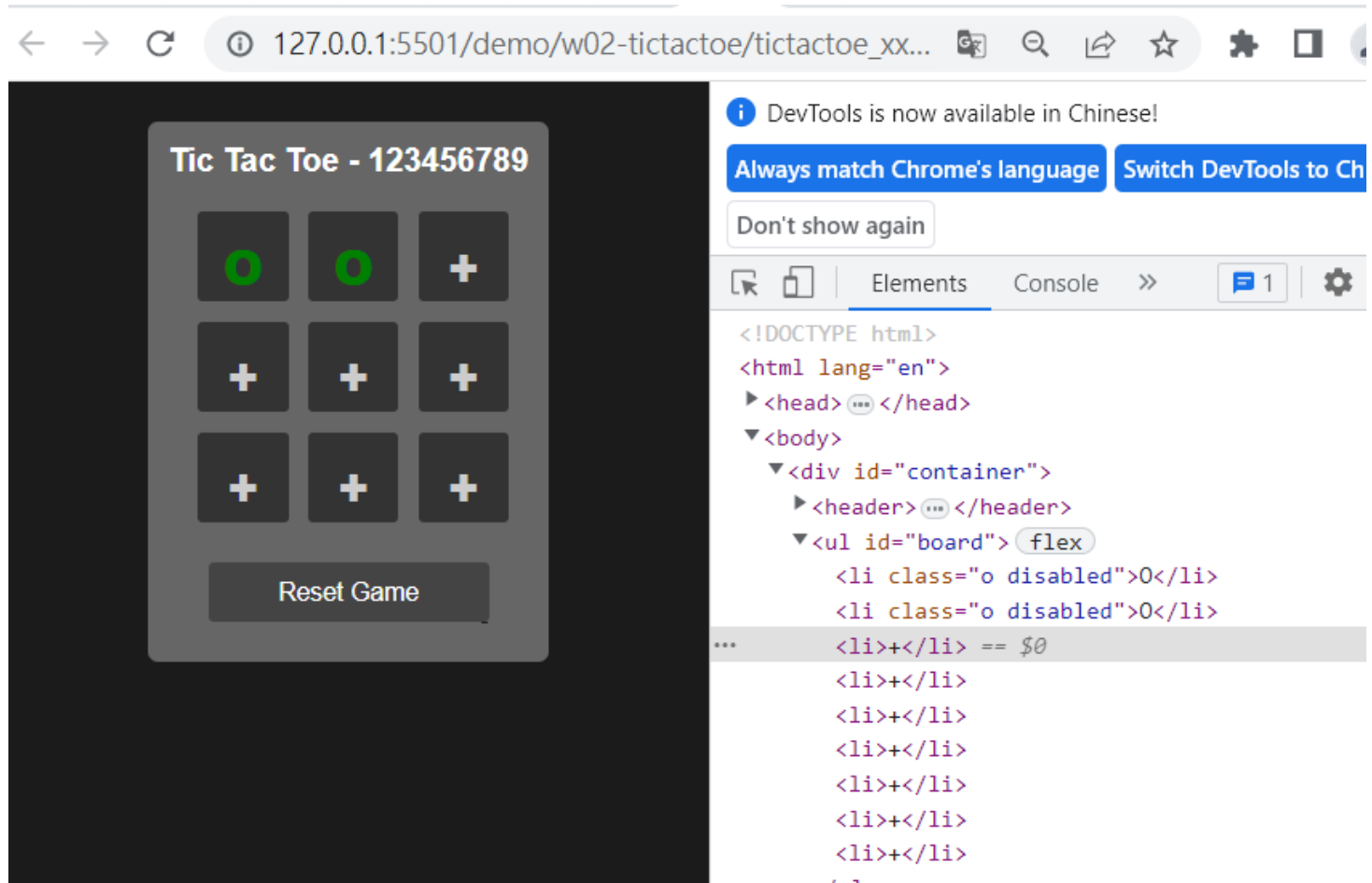
<script>

</script>

</body>

</html>

**W02-P3: debug -- 已經走過的，不能走，但是 turn 加 1，下一步還是同一個 player**



## W02-P4: debug -- 已經贏了，還可以繼續往下玩

← → ↻ ⓘ 127.0.0.1:5501/demo/w02-tictactoe/tictact... 📄 🔍 🔗 ☆ ⚙️ 🗑️ 👤 ⋮

Tic Tac Toe - 123456789

O	X	X
+	O	+
O	O	O

Reset Game

DevTools is now available in Chinese!

Always match Chrome's language Switch DevTools to Chinese

Don't show again

Elements Console >> 1 ⚙️ ⋮ 🔍

```
<!DOCTYPE html>
<html lang="en">
  <head>...</head>
  <body>
    <div id="container" style="background-color: rgba(4, 238, 144, 0.5);">
      <header>...</header>
      <ul id="board"> flex
        <li class="o disabled">O</li>
        <li class="x disabled">X</li>
        ...
        <li class="x disabled">X</li> == $0
        <li>+</li>
        <li class="o disabled">O</li>
        <li>+</li>
        <li class="o disabled">O</li>
        <li class="o disabled">O</li>
        <li class="o disabled">O</li>
      </ul>
      <footer>...</footer>
    </div>
    <script src="./tictactoe_xx.js"></script>
    <!-- Code injected by live-server -->
    <script>...</script>
  </body>
</html>
```