# Breaking down the project

#### + psuedocode

# **Keywords:**

- · Hosted game
- Switch between players
- · Display winner

- JS DOM manipulation
- HTML, CSS, JS files separate

### **HTML Breakdown:**

- · Grids divs
- Display 'Player 1' and 'Player 2'

```
<body>
section.grid-container>div*9
</body>
```

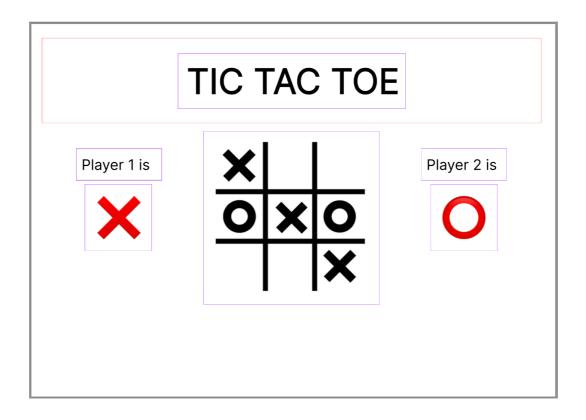
## **CSS Breakdown:**

- Style the divs to show grid
  - Display appropriate border
  - Can you use display: grid for the grid? And colour the gap in to show grid lines?

```
.grid-container {
  display as grid
  3 columns 3 row
  gap-color black???
}
```

Spacing between grid and winner text

#### Wireframe:



### JS Breakdown:

- Store each player's score
  - The value with then be displayed on HTML
  - o This will act as a scoreboard

```
var player1Score
var player2Score
var newParagraph1
var newParagraph2

if player1 wins > player1Score++
if player2 wins > player2Score++

newParagraph1 = player1Score
newParagraph2 = player2Score

body.appendChild.(newParagraph1) // add to scoreboard
body.appendChild.(newParagraph2) // add to scoreboard
```

- Add event to user's click -
  - link click to each square of the grid via DOM
  - Each alternating click is 'O' and other clicks are 'X'
     e.g click 1 = X, click 2 = O, click 3 = X, click 4 = other

```
var allDivContainer = divContainer.DOM

// first click = always player1, second click = player2

allDivContainer.click {
   gridSquare = event.target

if player1Click is div# {
   print 'X'}
}

if player2Click is div# {
   print '0'
}

// Breaking 'player click' down further:
player1Click = every odd click
player2Click = every even click
// Can you target each click like that?
```

- Switch between players:
  - Display text to show which player's turn, depending on which mark was left on previous click - if statement
    - e.g if 'X' is player 1 and last click was 'X', then display player 2's turn (next click is 'O')

```
// Following from above psuedocode:

if player1Click is div# {
   print 'X'}
   display "player 2's turn"
}

if player2Click is div# {
   print '0'
   display "player 1's turn"
}

// Breaking 'display' down further:
HTML:
```

```
Create  tag:
"It's player 1's turn"
"It's player 2's turn"

CSS:
.p {
    display: none;
}
.show-turn {
    display: block;
}

JS:
Toggle 'show-turn' class to display whose turn it is.
```

- · Display winner:
  - When 3 in a row, show a message (new modal, new text)
  - Append to HTML