# Tic tac toe game

A simple tic tac toe game using vanilla javascript. This repo is used for teaching purpose.

Demo: https://paultictactoe.surge.sh/
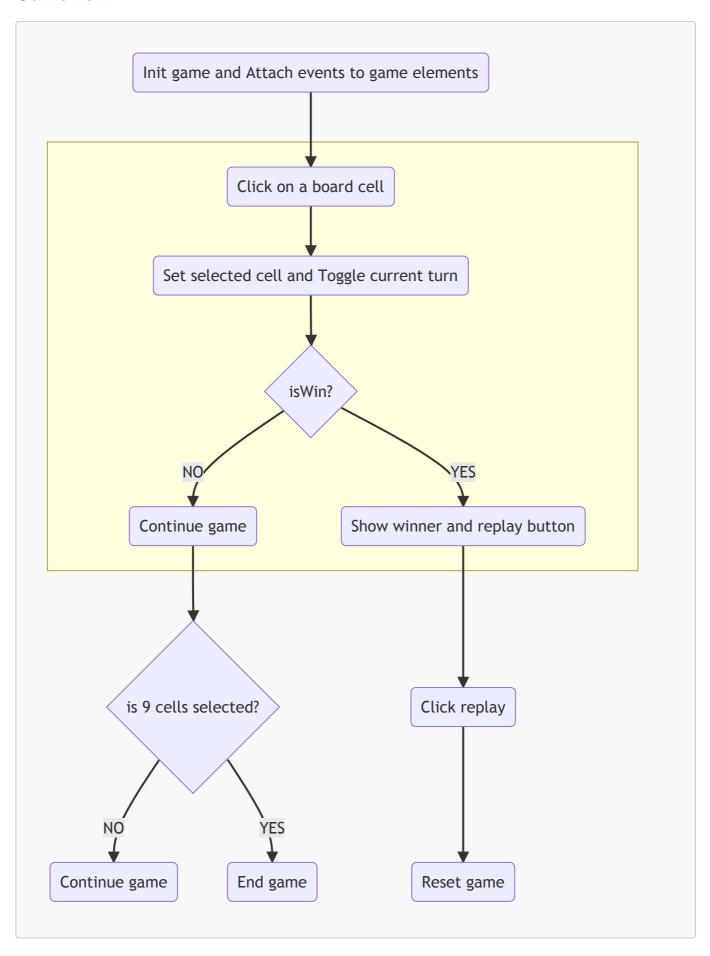
## Game elements

| Element | Available class | Desc |
|---|---|---|
| span#currentTurn | cross, circle | Show current turn |
| span#gameStatus | | Game status |
| button#replayGame | show | Show/Hide replay game (hide by default) |
| ul#cellList > li | cross, circle, win | Cell element |

## Folder structure

```
js-tic-tac-toe
|__ css
|__ images
|__ js
|   |__ main.js      # entry point
|   |__ constants.js # where all constants are defined
|   |__ selectors.js # selectors to get all DOM elements needed
|   |__ utils.js     # having shared functions to reuse
|
|__ index.html
```

# Game flow

```mermaid
flowchart TD
    A[Init game and Attach events to game elements] --> B[Click on a board cell]
    B --> C[Set selected cell and Toggle current turn]
    C --> D{isWin?}
    D -- NO --> E[Continue game]
    D -- YES --> F[Show winner and replay button]
    E --> G{is 9 cells selected?}
    G -- NO --> H[Continue game]
    G -- YES --> I[End game]
    F --> J[Click replay]
    J --> K[Reset game]
```

Happy Coding! 💪