

ayyi function kay qdar yeqra valeurs d attributs li meah f html

```
import React, { useState } from "react";

import "../Game.css";

import Header from "../Header";
import Footer from "../Footer";
import GameCircle from "../GameCircle";
```

```
import { isDraw, isWinner, getComputerMove } from "../helper";
import {
  GAME_STATE_PLAYING,
  GAME_STATE_WIN,
  NO_PLAYER,
  PLAYER_1,
  PLAYER_2,
  NO_CIRCLES,
  GAME_STATE_DRAW,
} from "../Constants";
```

useState how getter w setter + init

```
const GameBoard = () => {
  const [gameBoard, setGameBoard] = useState(Array(NO_CIRCLES).fill(NO_PLAYER));
  const [currentPlayer, setCurrentPlayer] = useState(PLAYER_1);
  const [gameState, setGameState] = useState(GAME_STATE_PLAYING);
  const [winPlayer, setWinPlayer] = useState(NO_PLAYER);
```

gameBoard(1)=0 etc

haddo yaeni default  
init vars

```
const initGame = () => {
  setCurrentPlayer(PLAYER_1);
  setGameBoard(Array(NO_CIRCLES).fill(NO_PLAYER));
  setGameState(GAME_STATE_PLAYING);
}
```

ki rej3o boyat w id player 0 teqdar tclicker f circle  
teqdar tclicker

```
const initBoard = () => {
  const circles = []; //array

  for (let i = 0; i < NO_CIRCLES; i++) {
    circles.push(renderCircle(i));
  }
  return circles;
};
```

circles with there id

id attribut f html

```
const circleClicked = (id) => {
  console.log("circle clicked:" + id);

  if (gameBoard[id] !== NO_PLAYER) return;
  if (gameState !== GAME_STATE_PLAYING) return;

  if (isWinner(gameBoard, id, currentPlayer)) {
    setGameState(GAME_STATE_WIN);
    setWinPlayer(currentPlayer);
  }
  if (isDraw(gameBoard, id, currentPlayer)) {
    setGameState(GAME_STATE_DRAW);
    setWinPlayer(NO_PLAYER);
  }
```

may eml walo ida deja tclicka fih  
maykmlshi ida wqaf laeb

f dik saea n testew wn emlo set direct  
ida true

t afficha l winner f header, wiy wqaf laeb

```
setGameBoard((prev) => {
  return prev.map((circle, pos) => {
    if (pos === id) return currentPlayer;
    return circle;
  });
});
```

Array(gameboard) of circles(pos of circle)

kayftesh f circles, f chaque pos, ida pos=id clicked,  
pos recoit current player

return new updated gameBoard

```
setCurrentPlayer(currentPlayer === PLAYER_1 ? PLAYER_2 : PLAYER_1);
```

function kikon dial player1  
matalan, takisali ad kan  
qelbo l player 2  
function li majji ghaykon d  
player 2

```
console.log(gameBoard);
console.log(currentPlayer);
```

```

};
const renderCircle = (id) => {
  return (
    <GameCircle
      key={id} //daroria f react bash ki farraq
      id={id} color f had pos ghan affectiw id dial player
      className={`player_${gameBoard[id]} `}
      onClicked={circleClicked}
    />
  );
};

const onSuggestClick = () => {
  circleClicked(getComputerMove(gameBoard));
}

const onNewGameClick = () => {
  initGame();
}

return (
  <>
    <Header gameState={gameState} currentPlayer={currentPlayer} winPlayer={winPlayer} />
    <div className="gameBoard">{initBoard()}</div> circles liki tghayar b sebba d states dima ki tfaeal
    <Footer onSuggestClick={onSuggestClick} onNewGameClick={onNewGameClick} gameState=
      {gameState}/>
  </>
);
};

export default GameBoard;

```

1 2 3 4 emlna for foqi push

ki qdar yqra attributs kamlin 3adi

ghayclicker f circle li genera

PLAYING WIN DRAW bash kit affichaw

INIT 1 w 2

le plus important tjrs

init default values