## Tic Tac Toe

Tuesday, March 22, 2022 5:10 PM

- State should be managed in board
- Board should know
  - What each cell should display
  - o What will be next value
  - o Should current cell be updated on the click or not
- We need to upgrade the board component from function component to class component
- Cell doesn't need to maintain it's own state.
- It should display the state passed by the parent

```
export default Cell;
```

- Now this component doesn't have any state. It can be downgraded to a function component
  - o You may keep it as class component
  - o But function components are easier to maintain

```
export default Cell;
```

## Child sending message to parent

- When cell is clicked, it should inform Board that it has been clicked.
- Board must know which cell is clicked.
  - o Cell should pass it's id to Board
- 1. Board should pass a function to Child: onCellClick

```
<div className='board'>

<Cell value={this.state.cells[0]} id={0} onCellClick={this.handleCellClick}/>
<Cell value={this.state.cells[1]} id={4} onCellClick={this.handleCellClick}/>
<Cell value={this.state.cells[2]} id={7} onCellClick={this.handleCellClick}/>
```

2. Child should call this function and pasy the id

```
const Cell=(props)=>{
    return <button
    onclick={ ()=> props.onCellClick(props.id)
    className="cell">{props.value}</button>;
```

- When button is clicked we pass a lambda function
- This function calls onCellClick with proper id

## Dynamic Style

- Sometimes we want to apply some style dynamically and can't be written in CSS
- We can create a JavaScript object to represent the style
- Pass this object as style props in JSX

- No value in button is breaking the alignment
  - O We use a dummy text instead null
- Since we don't really want to show anything, we change the style color to transparent which will make it invisible