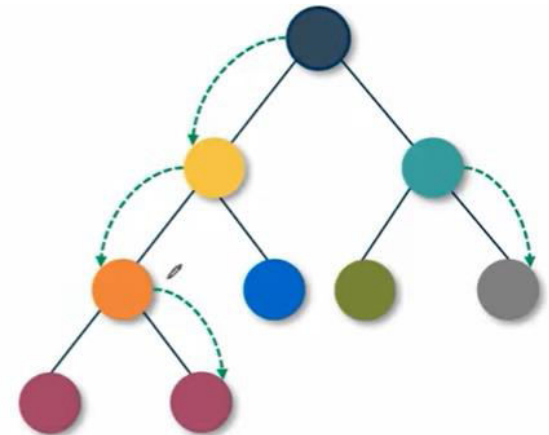
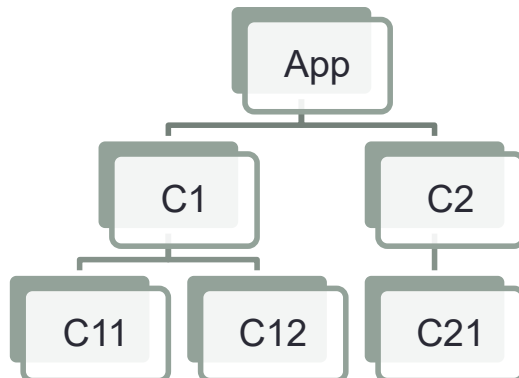


LIFTING STATE UP

Lifting state up in React.js

- In a typical application, you pass a lot of state down to child components as props.
 - These props are often passed down multiple component levels.
 - That's how state is shared vertically in your application.
- Often there will be a need to **share state between different components**.
 - The common approach to share state between two components is to move the state to common parent of the two components.
 - This approach is called **as lifting state up** in React.js
- React components can manage their own state
- Often components need to communicate state to others
- Siblings do not pass state to each other directly
- State should pass through a parent, then trickle down



Lifting state up – simple example

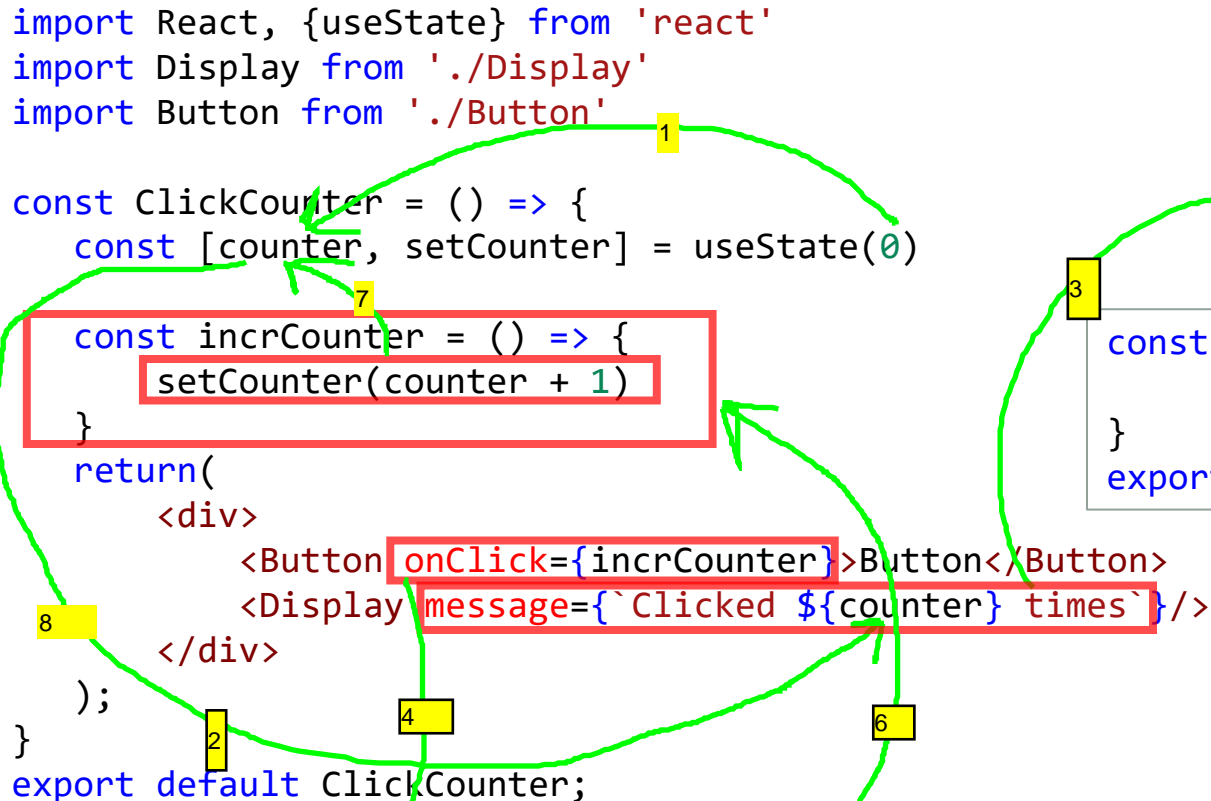
```
import React, {useState} from 'react'
import Display from './Display'
import Button from './Button'

const ClickCounter = () => {
  const [counter, setCounter] = useState(0)

  const incrCounter = () => {
    setCounter(counter + 1)
  }

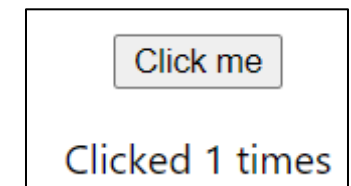
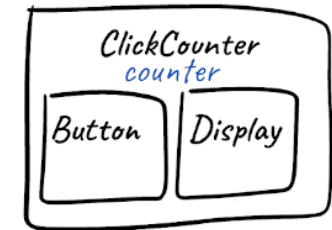
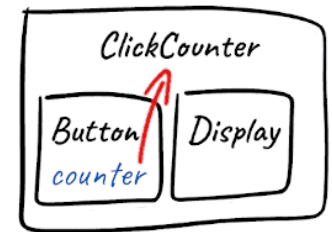
  return(
    <div>
      <Button onClick={incrCounter}>Button</Button>
      <Display message={`Clicked ${counter} times`} />
    </div>
  );
}

export default ClickCounter;
```



```
const Button = (props) => {
  return <button onClick={props.onClick}>Click me</button>;
}

export default Button;
```



A small aside – add filter to date

```
const ExpensesFilter = (props) => {  
  
  const selectChangeHandler = (event) => {  
    console.log(event.target.value)  
    props.onSelectYear(event.target.value)  
  }  
  
  return (  
    <div className='expenses-filter'>  
      <div className='expenses-filter__control'>  
        <label>Filter by year</label>  
        <select onChange={selectChangeHandler}>  
          <option value='2022'>2022</option>  
          <option value='2021'>2021</option>  
          <option value='2020'>2020</option>  
          <option value='2019'>2019</option>  
        </select>  
      </div>  
    </div>  
  );  
};  
export default ExpensesFilter;
```

Welcome to React!

2020

2022

2021

2020

2019

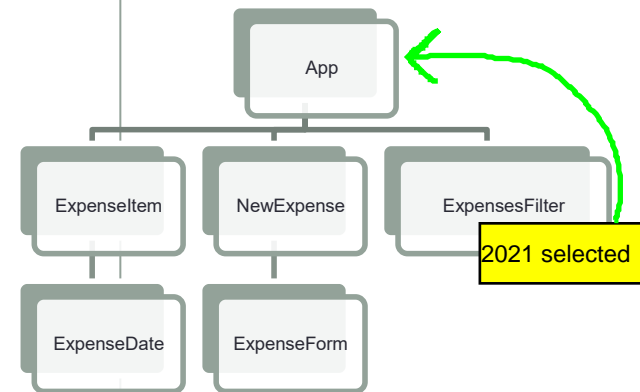
Title

Amount

[HMR] Waiting

src\components
tateEg\Parent0
Line 5:18:
used no-unuse
Line 6:18:
used no-unuse

2021
2020



```
function App() {  
  const [filteredYear, setFilteredYear] = useState(2020);  
  
  const selectYearHandler = (filteredValue) => {  
    setFilteredYear(filteredValue)  
  }  
  
  return (  
    <div className="App">  
      <h2>Welcome to React!</h2>  
      <ExpensesFilter onSelectYear={selectYearHandler}/>  
    </div>  
  );  
}
```