

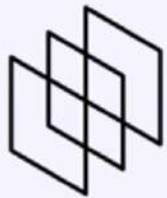
Skills
Network

Working with React Class Components-Props and Event Handling

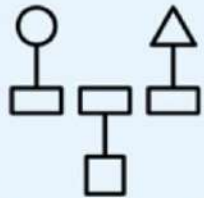
Working with React Class Components-Props and Event Handling

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What you will learn



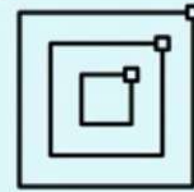
Define a class component



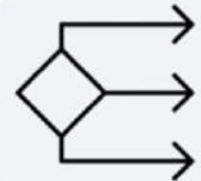
Describe how a class component works



Describe how to manage the state in the React class component

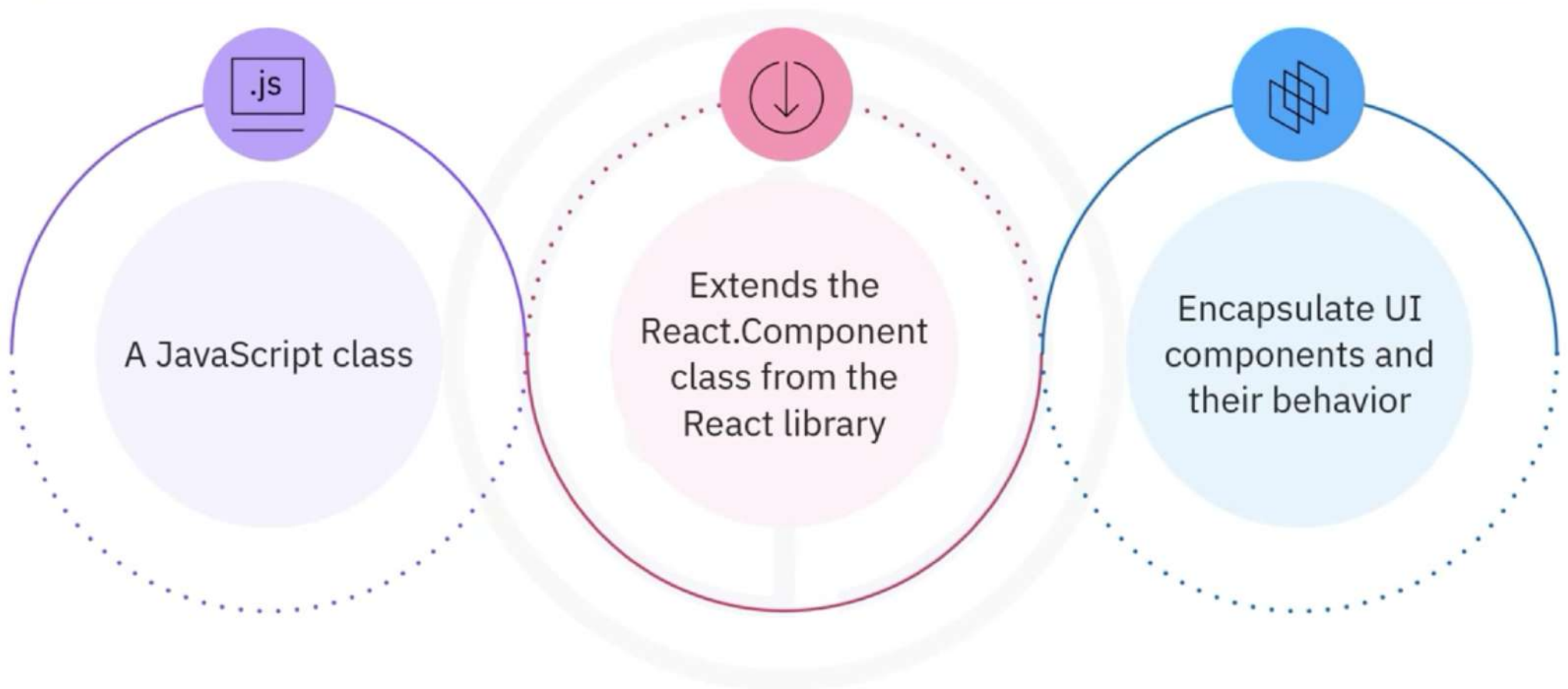


Describe how to use props in a class component in React



Describe how to handle events in class components

What is a class component?



What is a class component?



Class component example

```
import React, { Component } from 'react';
class MyComponent extends Component {
  render() {
    return (
      <div>
        <h1>Hello, world!</h1>
      </div>
    );
  }
}
export default MyComponent;
```

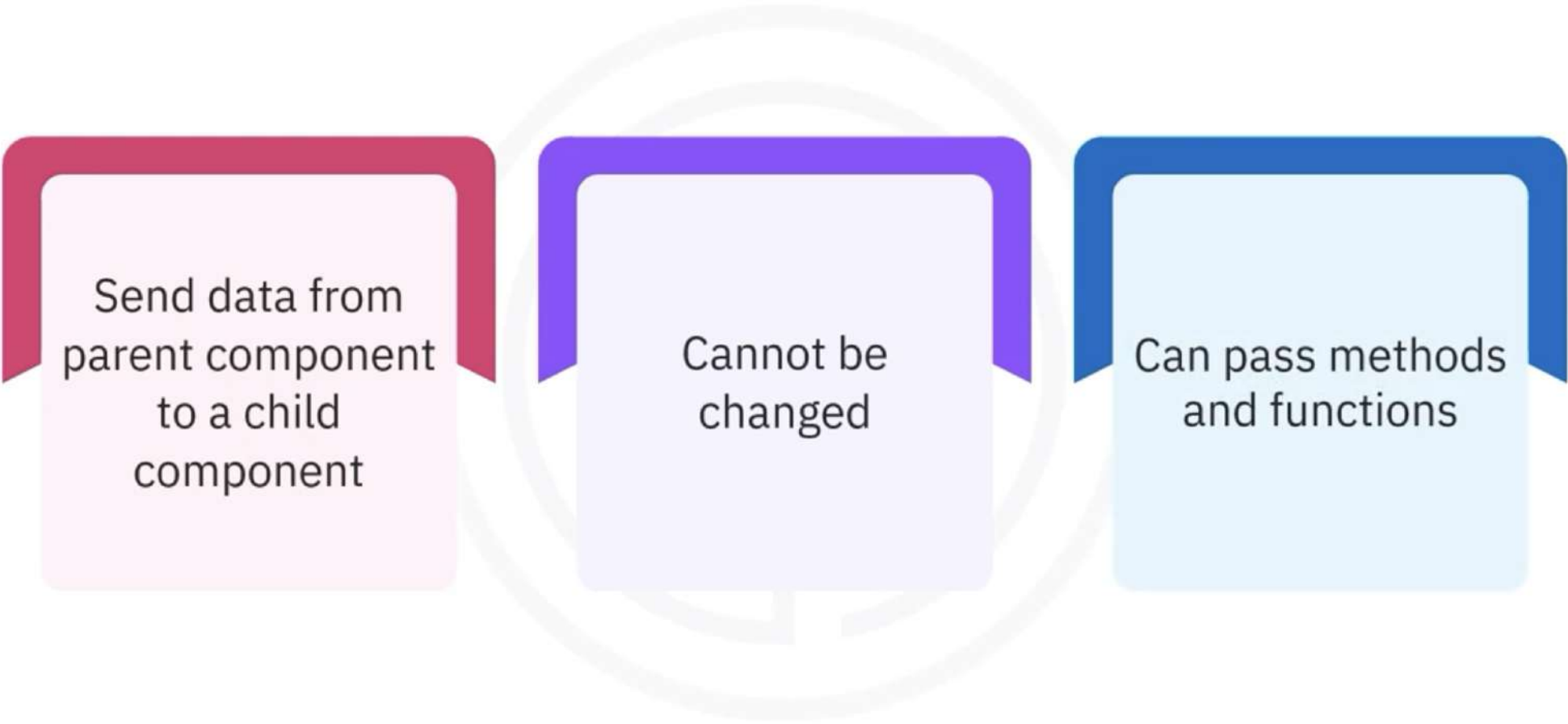
Managing state

```
import React, { Component } from 'react';
class EmployeeDetails extends Component {
  constructor(props) {
    super(props);
    → this.state = { emp_id: '', emp_email: '' };
  }
  handleInputChange = event => {
    const { name, value } = event.target;
    → this.setState({ [name]: value });
  };
  //render() method next slide
```


Managing state

```
//EmployeeDetails component con't from previous slide
render() {
  const { emp_id, emp_email } = this.state;
  return (
    <div className="EmployeeDetails">
      <input type="text" name="emp_id" value={emp_id}
        onChange={ this.handleChange } placeholder='Enter Employee Id' />
      <input type="email" name="emp_email" value={emp_email}
        onChange={ this.handleChange }
        placeholder='Enter Employee Email' />
      <button onClick={ () => alert(`Employee ID: ${emp_id},
        Email: ${ emp_email }`) }>Show Details</button>
    </div>
  );
}
} export default EmployeeDetails;
```


Props in-class component



Send data from
parent component
to a child
component

Cannot be
changed

Can pass methods
and functions

Props in parent class component

```
import React from 'react'
import EmployeeDetails from './EmployeeDetails'

function OrganizationDetails () {
  let employee_designation = 'Project Manager';
  return (
    <>
      <EmployeeDetails employee_designation = { employee_designation } />
    </>
  )
}
export default OrganizationDetails
```

Passing of props to the child class

```
class EmployeeDetails extends Component {  
  //Constructor() and handleInput() methods here  
  render() {  
    const { emp_id, emp_email } = this.state;  
    const { employee_designation } = this.props;  
    return (  
      <div className="EmployeeDetails">  
        <input type="text" name="emp_id" value={ emp_id }  
          onChange={ this.handleInputChange } placeholder='Enter Employee Id' />  
        <input type="email" name="emp_email"  
          value={ emp_email } onChange={ this.handleInputChange }  
          placeholder='Enter Employee Email' />  
        <button onClick={() =>  
          alert(`Employee ID: ${ emp_id }, Email: ${ emp_email },  
            Designation: ${ employee_designation }`) }>Show Details  
        </button>  
      </div>  
    ); } } export default EmployeeDetails;
```

Event Handling

<button> from **EmployeeDetails** component

```
<button onClick={ () =>
  alert(
    `Employee ID: $ {emp_id },
    Email: ${ emp_email },
    Designation: ${ employee_designation }`
  )}>
  Show Details
</button>
```

Recap

In this video, you learned that:

- A class component in React is a JavaScript class that extends the `React.Component` class from the React library
- Class components encapsulate UI components and their behavior into reusable building blocks
- Class components manage state, handle lifecycle events, and define component methods
- State represents the data that the component needs to render and respond to user interactions
- In React, props or properties send data from parent to child components
- Event handling in React is the process of responding to user interactions, such as clicks, mouseover, mouseout, form submissions, and so on, within a React application