



My Notebook

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Chapter 1: Introduction to React

Topic 1: Components

React components are the building blocks of React applications. They are reusable pieces of code that return JSX elements to be rendered to the screen.

Key Points:

- Components can be functional or class-based
- Props are used to pass data to components
- State manages component data that can change over time

Topic 2: JSX

JSX is a syntax extension for JavaScript that looks similar to HTML. It allows you to write HTML-like code in your JavaScript files.

```
`jsx const element =
```

Hello, world!

```
;
```

JSX gets compiled to `React.createElement()` calls.

Chapter 2: Advanced React

Topic 1: Hooks

Hooks are functions that let you use state and other React features in functional components.

Common Hooks:

- `useState`: Manages component state
- `useEffect`: Handles side effects
- `useContext`: Consumes context values
- `useReducer`: Manages complex state logic

Topic 2: Context API

The Context API provides a way to pass data through the component tree without having to pass props down manually at every level.

```
`jsx const ThemeContext = React.createContext();`
```