Refs. React Patterns. Final project.

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01

Refs

Refs

Refs

- React is declarative and abstracts DOM manipulations
- Refs are used to get reference on the underlying DOM element
 - Access DOM element properties (e.g. height, position, ...)
- Official docs
- Returns object with current key set to DOM object or null
- useRef hook const ref = useRef(null)
- createRef method this.ref = createRef(null)
- Refs are also used to store data which should not trigger re-renders



Refs example - refs.md



Refs

usePrevious

- Sometimes we need previous prop value in current component
 - In class components componentDidUpdate could access it
 - Use case example: animations
- We don't want to re-render on update of previous value
- Solution: usePrevious hook



Refs example - usePrevious.md





React Portal

React Portal

React Portal

- Official docs
- Render children outside of DOM hierarchy
 - Used with modals, dialogs, notifications, toasts
- Commonly used with Singleton pattern
- ReactDOM specific
- ReactDOM.createPortal(child, container)
- Event propagation and Context work as if it is still in the hierarchy



Portal example - portal.md





Controlled components

Controlled components

- Components which are controlled by the parent via props
 - They receive value and onChange handler
- Often used in forms to allow the parent to always know current input values
 - Like you did in Input.tsx in your 5th homework
- Example: Tabs component
 - Controlled: receive current value and onChange/onClick as props
 - Uncontrolled: internally stores state and handles changed, only receives list of Tab instances and TabPanel instances as children (handled via context probably)
- Other React patterns: <u>High order components</u> and <u>Render prop</u>
 - Mostly made obsolete by custom hooks







Final project

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Thank you for your attention!



