



链滴

# 在 React 中获得纯粹的函数式编程体验

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原文链接: <https://ld246.com/article/1625105723868>

来源网站: [链滴](#)

许可协议: [署名-相同方式共享 4.0 国际 \(CC BY-SA 4.0\)](#)

使用React Hooks以及Typescript, 采用函数式编程风格编写组件

## Todo组件

Todo.tsx

```
import React, { useState } from 'react'

interface TodoItem {
  label: string;
  date: string;
}

type TodoList = TodoItem[];

interface TodoPropType {
  todoList: TodoList;
  onTodoListChange: (newTodoList: TodoList) => void;
}

const Todo: React.FC<TodoPropType> = ({ todoList, onTodoListChange }) => {
  const [item, setItem] = useState<TodoItem>({
    label: "",
    date: ""
  })
  const addTodoItem = () => {
    const newTodoList = [...todoList, item]
    onTodoListChange(newTodoList)
  }
  const removeItem = (idx: number) => {
    onTodoListChange([...todoList.slice(0, idx), ...todoList.slice(idx + 1)])
  }
  const itemChange = (prop: keyof TodoItem, value: string) => {
    setItem({
      ...item,
      [prop]: value
    })
  }
  return (
    <>
      <ul>
        {todoList.map(({ label, date }, i) =>
          <li key={i}>
            <strong>
              Label:
            </strong>
            {label}
            <strong>
              Date:
            </strong>
            { date }
            <button onClick={() => removeItem(i)}> - </button>
          </li>
        )}
      </ul>
    </>
  )
}
```

```
    })
  </ul>
  <input type="text" value={item.label} onChange={e => itemChange('label', e.target.value)}
/>
  <input type="date" value={item.date} onChange={e => itemChange('date', e.target.value)}
/>
  <button onClick={() => addTodoItem()}> + </button>
</>
)
}

export { Todo, TodoItem }
```

## 父组件

Parent.tsx

```
import React, { useState } from 'react'
import { Todo, TodoList } from '/path/to/Todo'

export { Page }

const Page = () => {
  const [todoList, setTodoList] = useState<TodoList>([
    {
      label: 'Event1',
      date: '2021-07-01'
    }
  ])

  return (
    <>
      <h1>Welcome</h1>
      <Todo todoList={todoList} onTodoListChange={setTodoList} />
    </>
  )
}
```

## 提个小建议

好像编辑器不支持 `jsx` 跟 `tsx` 语法高亮，希望可以支持@88250