学习

TS

https://typescript.bootcss.com/tutorials/react.html TS文档

```
1 // TS高级类型
 2
 3 // 1.Intersection Types(交叉类型)
 5 type LeftType = {
    id: number;
     left: string;
 8 };
 9 type RightType = {
     id: number;
10
     right: string;
11
12 };
13 type IntersectionType = LeftType & RightType;
14
15 function showType(args: IntersectionType) {
     console.log(args);
16
17 }
18 showType({ id: 1, left: 'test', right: 'test' });
19
20
21 // 2.Union Types(联合类型)
22
23 type UnionType = string | number;
24
25 function showType(arg: UnionType) {
       console.log(arg);
27 }
28
29 showType('test');
30 showType(7);
31
32 // 3.Generic Types(泛型)
33
34 function showType<T>(args: T) {
     console.log(args);
36 }
```

```
37
38 showType('test');
39 showType(1);
40
41 // 泛型接口
42
43 interface GenericType<T> {
44
     id: number;
45
     name: T;
46 }
47
48 function showType(args: GenericType<string>) {
   console.log(args);
50 }
51
52 showType({ id: 1, name: 'test' });
53
54 // Partial<T>: 将T类型的所有属性设为可选
55
56 interface PartialType {
57 id: number;
    firstName: string;
58
     lastName: string;
59
60 }
61
62 function showType(args: Partial<PartialType>) {
   console.log(args);
63
64 }
65
66 showType({ id: 1 });
67
68 // Required<T>: 将某个类型里的属性全部变为必选项
69
70 interface RequiredType {
71
    id: number;
72
     firstName?: string;
73
     lastName?: string;
74 }
75
76 function showType(args: Required<RequiredType>) {
     console.log(args);
77
78 }
79
80 showType({ id: 1, firstName: 'John', lastName: 'Doe' });
81
82 // Readonly<T>: 将属性变为只读
```

```
84 interface ReadonlyType {
 85
      id: number;
 86
      name: string;
 87 }
 88
 89 function showType(args: Readonly<ReadonlyType>) {
      args.id = 4; // 报错
 90
      console.log(args);
 91
 92 }
 93
 94 showType({ id: 1, name: 'Doe' });
95
 96 // Pick<T, K>: 从一个已存在的类型 T中选择一些属性作为K, 从而创建一个新类型
 97
 98
99 interface PickType {
      id: number;
100
101
      firstName: string;
      lastName: string;
102
103 }
104
105 function showType(args: Pick<PickType, 'firstName' | 'lastName'>) {
      console.log(args);
106
107 }
108
109 showType({ firstName: 'John', lastName: 'Doe' });
110
111 // Omit<T, K>: 从类型T中删除K个属性。
112
113 interface PickType {
114
      id: number;
      firstName: string;
115
      lastName: string;
116
117 }
118
119 function showType(args: Omit<PickType, o'firstName' | 'lastName'>) {
120
      console.log(args);
121 }
122
123 showType({ id: 7 });
124
125 // Extract<T, U>: 从T中提取所有可分配给U的属性。
126
127 interface FirstType {
128
      id: number;
129
      firstName: string;
130
      lastName: string;
```

```
131 }
132
133 interface SecondType {
      id: number;
134
      address: string;
135
136
    city: string;
137 }
138
139 type ExtractType = Extract<keyof FirstType, keyof SecondType>;
140 // Output: "id"
141
142 // Exclude<T, U>: 从 T 中剔除可以赋值给 U 的类型。
143
144 interface FirstType {
145
      id: number;
146
      firstName: string;
147
      lastName: string;
148 }
149
150 interface SecondType {
151
   id: number;
      address: string;
152
      city: string;
153
154 }
155
156 type ExcludeType = Exclude<keyof FirstType, keyof SecondType>;
157 // Output; "firstName" | "lastName"
158
159 // Record < K , T >: 构造具有给定类型T的一组属性K的类型
160
161 interface EmployeeType {
      id: number;
162
      fullname: string;
163
      role: string;
164
165 }
166
167 let employees: Record<number, EmployeeType> = {
      0: { id: 1, fullname: 'John Doe', role: 'Designer' },
168
      1: { id: 2, fullname: 'Ibrahima Fall', role: 'Developer' },
169
      2: { id: 3, fullname: 'Sara Duckson', role: 'Developer' },
170
171 }; ..., 15:00
172
173 // NonNullable<T>: 从 T 中剔除 null 和 undefined
174
175 // Mapped Types(映射类型)
176
177 // Type Guards(类型保护)
```

```
178 使用in检查参数对象上是否存在属性x。
179
180 // Conditional Types(条件类型)
181 T extends U ? X : Y ,即如果类型T可以被赋值给类型U,那么结果类型就是X类型,否则为Y类型。
```

- 3.https://ahooks.gitee.io/zh-CN/hooks/use-request/index ahooks文档
- 4.https://usehooks-ts.com/react-hook/use-countdown usehooks-ts

useCountDown

实现

```
1 import { useBoolean, useCounter, useInterval } from 'usehooks-ts'
 2
 3 interface CountdownOption {
     countStart: number
   intervalMs?: number
     isIncrement?: boolean
     countStop?: number
 7
8 }
9 interface CountdownControllers {
10 startCountdown: () => void
     stopCountdown: () => void
11
     resetCountdown: () => void
12
13 }
14
15 export function useCountdown(
     countdownOption: CountdownOption,
16
17 ): [number, CountdownControllers] {
18
19
     let isDeprecated = false
20
     let countStart,
21
22
       intervalMs,
23
       isIncrement: boolean | undefined,
       countStop: number | undefined
24
25
     ;({ countStart, intervalMs, isIncrement, countStop } = countdownOption)
26
27
28
     intervalMs = intervalMs ?? 1000
29
     isIncrement = isIncrement ?? false
30
31
     countStop = countStop ?? 0
```

```
32
33
     // count == countStart, increment +1 ,decrement -1
     const {
34
       count,
35
       increment,
36
37
       decrement,
       reset: resetCounter,
38
     } = useCounter(countStart)
39
40
41
     const {
    value: isCountdownRunning,
42
       setTrue: startCountdown,
43
       setFalse: stopCountdown,
44
     } = useBoolean(false)
45
46
     const resetCountdown = () => {
47
       stopCountdown()
48
49
       resetCounter()
50
     }
51
     const countdownCallback = useCallback(() => {
52
       if (count === countStop) {
53
         stopCountdown()
54
55
         return
       }
56
57
58
       if (isIncrement) {
         increment()
59
       } else {
60
         decrement()
61
62
     }, [count, countStop, decrement, increment, isIncrement, stopCountdown])
63
64
     // 定时器,如果true,则执行一次
65
     useInterval(countdownCallback, isCountdownRunning ? intervalMs : null)
66
67
68
     return
69
70
           count,
            {
71
72
             startCountdown,
73
             stopCountdown,
             resetCountdown,
74
           } as CountdownControllers,
75
76
         1
77 }
```

useDebounce

实现

```
1 import { useEffect, useState } from 'react'
 3 export function useDebounce<T>(value: T, delay?: number): T {
     const [debouncedValue, setDebouncedValue] = useState<T>(value)
 5
     useEffect(() => {
 6
       const timer = setTimeout(() => setDebouncedValue(value), delay || 500)
 7
 8
       return () =>_{asa 15.00
 9
         clearTimeout(timer)
10
       }
11
12
     }, [value, delay])
13
     return debouncedValue
14
15 }
```

useEventListener

```
1 import { useEventListener } from 'usehooks-ts'
 2
 3 export default function Component() {
     const buttonRef = useRef<HTMLButtonElement>(null)
     const documentRef = useRef<Document>(document)
 5
 6
     const onScroll = (event: Event) => {
 8
       console.log('window scrolled!', event)
 9
10
     const onClick = (event: Event) => {
11
   console.log('button clicked!', event)
12
13
14
     const onVisibilityChange = (event: Event) => {
15
       console.log('doc visibility changed!', {
16
         isVisible: !document.hidden,
17
         event,
18
       })
19
20
     useEventListener('scroll', onScroll)
21
22  useEventListener('visibilitychange', onVisibilityChange, documentRef)
23
     useEventListener('click', onClick, buttonRef)
```

```
25 return (
26 <div style={{ minHeight: '200vh' }}><button ref={buttonRef}>Click me</button
27 )
28 }
```

实现

```
1 import { RefObject, useEffect, useRef } from 'react'
 3 import { useIsomorphicLayoutEffect } from 'usehooks-ts'
 4
 5 // Window Event
 6 function useEventListener<K extends keyof WindowEventMap>(
     eventName: K,
 7
     handler: (event: WindowEventMap[K]) => void,
     element?: undefined,
 9
     options?: boolean | AddEventListenerOptions,
10
11 ): void
12
13 // Element Event
14 function useEventListener<
     K extends keyof HTMLElementEventMap,
15
     T extends HTMLElement = HTMLDivElement,
16
17 >(
     eventName: K,
18
19
     handler: (event: HTMLElementEventMap[K]) => void,
     element: RefObject<T>,
20
21
     options?: boolean | AddEventListenerOptions,
22 ): void
23
24 // Document Event
25 function useEventListener<K extends keyof DocumentEventMap>(
26
     eventName: K,
27
     handler: (event: DocumentEventMap[K]) => void,
     element: RefObject<Document>,
     options?: boolean | AddEventListenerOptions,
29
30 ): void
31
32 function useEventListener<
     KW extends keyof WindowEventMap,
33
     KH extends keyof HTMLElementEventMap,
34
     T extends HTMLElement | void = void,
35
36 >(
     eventName: KW | KH,
```

```
38
     handler: (
39
       event:
         | WindowEventMap[KW]
40
         | HTMLElementEventMap[KH]
41
         | Event,
42
43
     ) => void,
     element?: RefObject<T>,
44
     options?: boolean | AddEventListenerOptions,
45
46 ) {
     const savedHandler = useRef(handler)
47
48
     // 判断当前是浏览器环境还是服务器环境
49
     useIsomorphicLayoutEffect(() => {
50
       savedHandler.current = handler
51
     }, [handler])
52
53
     useEffect(() => {
54
       // 获取当前DOM元素
55
       const targetElement: T | Window = element?.current ?? window
56
       // 目标元素不存在
57
58
      if (!(targetElement && targetElement.addEventListener)) return
       // linstener处理函数: 类型是handler, 执行handler
59
       const listener: typeof handler = event => savedHandler.current(event)
60
61
       targetElement.addEventListener(eventName, listener, options)
62
63
       return () => {
64
         targetElement.removeEventListener(eventName, listener, options)
65
66
     }, [eventName, element, options])
67
68 }
69
70 export { useEventListener }
```

useScroll

实现

```
1 import { RefObject, useEffect, useRef, useState } from 'react';
2
3 interface State {
4     x: number;
5     y: number;
6 }
7
8 const useScroll = (ref: RefObject<HTMLElement>): State => {
```

```
const frame = useRef(0);
     const [state, setState] = useState<State>({
10
11
       x: 0,
12
      y: 0,
13
14
    useEffect(() => {
15
       // 在这个新的动画帧中,它会获取一个元素的滚动位置并更新状态。
16
       // 取消之前的动画帧请求并创建一个新的动画帧请求。
17
       const handler = () => {
18
        // 取消了当前正在等待执行的动画帧。
19
        cancelAnimationFrame(frame.current);
20
        // 告诉浏览器在下次重绘之前调用指定的回调函数来更新动画
21
        frame.current = requestAnimationFrame(() => {
22
          if (ref.current) {
23
            setState({
24
              x: ref.current.scrollLeft,
25
26
              y: ref.current.scrollTop,
27
            });
28
29
      15:00 });
      };
30
31
32
       if (ref.current) {
         ref.current.addEventListener('scroll', handler, {
33
          // 在冒泡阶段处理
34
          capture: false,
35
          // 浏览器可以在没有用户交互的情况下进行滚动
36
          passive: true,
37
        });
38
39
       }
40
       return () => {
41
42
        if (frame.current) {
43
          cancelAnimationFrame(frame.current);
44
        }
45
        if (ref.current) {
46
           ref.current.removeEventListener('scroll', handler);
47
        }
48
49
      };
     }, [ref.current]);
50
51
52
    return state;
53 };
55 export default useScroll;
```

https://github.com/rollup/plugins/blob/master/packages/dynamic-import-vars/src/index.js rollup-plugin-inline-dynamic-imports插件

https://cn.vitejs.dev/guide/api-plugin.html#vite-specific-hooks vite插件开发 https://cn.rollupjs.org/plugin-development/ rollu插件开发

实现一个插件,将文件中所有console.log移除

https://github.com/xiaoxian521/vite-plugin-remove-console/tree/main 移除console.log插件

- 7.动画
 - 1.Web Animation API https://developer.mozilla.org/zh-CN/docs/Web/API/Web_Animations_API
- 8.框架
 - 1.Svelte https://www.svelte.cn/tutorial/basics
 - 2.Vue
 - 1.https://vue3js.cn/ Vue3生态文档, Vue3源码
 - 。 3.https://zh-hans.react.dev/ React文档
- 9.Web Components
 - 1.Lit https://lit.dev/docs/
- 10.Form
 - 。 1.https://react-hook-form.com/get-started 处理Form表单



ΑI

1.https://github.com/Pythagora-io/gpt-pilot#how-to-start-using-gpt-pilot

Gpt pilot加快代码构建速度

2.https://open.bigmodel.cn/overview

智谱AI 开发AI应用



1.https://github.com/afatcoder/LeetcodeTop

高频笔试算法题

2.https://github.com/geekxh/hello-algorithm

算法学习路线

3.https://github.com/krahets/hello-algo

含jsPDF的算法学习



项目部署

1.https://vercel.com/sunnyyees-projects/vercel-vite-project/8gJpQNj6MfGWgfjbgtXFG1NkJdfA Vercel



工 无代码开发

1.https://zion.functorz.com/userCenter/personal

Zion



自动化

1.http://doc.autoxjs.com/#/?id=%e7%bb%bc%e8%bf%b0

AutoX.js