1.通过autoRun触发get拦截。

思路

```
2.通过get注册target,key和autoRun的一一对应关系。
3.通过set去更新属性,执行autoRun。
Mobx.js
       let proxies = new WeakMap();
       let observers = new WeakMap();
       let currentObserver = null;
   3
   4
   5
       const isObserver = (obj) => {
           return obj === proxies.get(obj);
   6
    7
       }
   8
   9
       const toObserver = (obj ,_fun) =>{
   10
           return new Proxy(obj,{
   11
               get (target,key,receiver) {
   12
                   console.log('获取值');
                   // 判断代理是否存在
   13
   14
                   const targetProxy = proxies.get(target);
                   const observer = observers.get(target)
   15
                   const autoFunSet = observer && observer.get(key);
   16
   17
                   if(currentObserver && targetProxy && !autoFunSet){
                       observer.set(key, new Set().add(currentObserver));
   18
   19
                   }
   21
                   if(currentObserver && targetProxy && autoFunSet){
                       autoFunSet.add(currentObserver);
                   }
                   // 看看 这个target -> key - currentFunc是否是一一对应关系,如果不是,则添
   24
       加,如果是这不作为。
                   return Reflect.get(target, key, receiver);
   26
               },
               set (target, key, value, receiver) {
   27
                   console.log('设置值');
   29
                   // 查看这个target , key 是否是代理, 如果是则找其相关的对应关系, 执行对应关系,
       不是则直接返回值
                   const targetProxy = proxies.get(target);
                   const observer = observers.get(target);
   31
                   const autoFunSet = observer && observer.get(key);
   34
                   if(typeof target !== 'object' && !targetProxy){
                       return Reflect.set(target, key, value, receiver);
                   }
                   if(targetProxy && observer && autoFunSet){
                       const autos = observer.get(key);
                       for ( let _func of [...autos]){
                           _func();
   41
```

```
42
                        }
   43
                    }
   44
                    return Reflect.set(target, key, value, receiver);
                }
   45
   46
            })
   47
       }
   48
   49
       const registerObserver = (target, key) => {
            observers.set(target, new Map(key, this.currentObserver));
   51
       }
   53
       const autoRun = (_fun) => {
   54
            console.log('autoRun')
            currentObserver = _fun;
            if(typeof _fun === 'function'){
   56
   57
                _fun();
   58
   59
            currentObserver = null;
   60
       }
   61
   62
       const observable = (obj) => {
            const proxy = proxies.get(obj);
   63
   64
            if(proxy){
   65
                return proxy;
   66
            }
   67
            const observer = toObserver(obj);
            proxies.set(obj,observer);
   68
   69
            observers.set(obj, new Map());
           return observer;
   71 }
test.html
       <!DOCTYPE html>
    2
       <html lang="en">
    3
       <head>
    4
            <meta charset="UTF-8">
    5
            <meta name="viewport" content="width=device-width, initial-scale=1.0">
    6
            <meta http-equiv="X-UA-Compatible" content="ie=edge">
           <title>Document</title>
    7
           <style>
    8
                div {
    9
   10
                    width: 500px;
   11
                    height: 500px;
   12
                    margin: auto;
   13
                }
   14
            </style>
       </head>
   15
       <body>
   16
   17
            >
                颜色: <input id="input"/>
   18
   19
           >
```

```
文案: <input id="text"/>
21
22
        23
       ul id="list">
24
        <script type="text/javascript" src="./Mobx.js"></script>
25
        <script>
26
            const input = document.querySelector('#input');
27
            const text = document.querySelector('#text');
28
            const list = document.querySelector('#list');
29
            const obj = observable({
31
                text: 'hehe',
                color: 'red'
            });
34
            input.oninput = (e) => {
                const value = e.target.value;
36
37
                console.log(value)
                obj.color = value;
38
39
            }
40
41
            text.onblur = (e) => {
42
                const value = e.target.value;
43
                console.log(value)
44
                obj.text = value;
            }
45
46
47
            autoRun(() =>{
48
                input.style.color = obj.color;
49
            });
50
            autoRun(() =>{
51
52
                let li = document.createElement('li');
53
                li.innerText = obj.text;
54
                list.appendChild(li);
55
            })
56
            console.log(obj.a,input);
        </script>
57
58 </body>
59 </html>
```