

[toc]

pinia学习

快速入门

1.1.安装

```
yarn add pinia
# or with npm
npm install pinia
```

提示：如果您使用的是Vue2,您还需要安装组合式API包：[@vue/composition-api](#)

如果你使用的是vue CLI，你可以试试[非官方插件](#)

1.2.初始化配置

Vue3:

```
import { createPinia } from 'pinia'

app.use(createPinia())
```

1.2.1应用示例

mian.js代码示例：

```
import { createApp } from 'vue'
import App from './App.vue'
import { createPinia } from 'pinia'

// 创建 pinia实例
const pinia = createPinia()

const app = createApp(App)

// 挂载到 Vue 根实例
app.use(pinia)
app.mount('#app')
```

index.ts代码示例：

```

import { defineStore } from 'pinia'

// 1.定义容器
// 参数1: 容器的id , 必须唯一, 将来 pinia 会把所有的容器挂载到跟容器
// 参数2: 选项对象
// 返回值: 一个函数, 调用得到容器实例
export const useMainStore = defineStore({
  /**
   类似于组件的 data , 用来存储全局状态的
   1.必须是函数, 这样是为了服务端渲染时避免交叉请求数据导致数据污染
   2.且是箭头函数: 为了更好地 TS 类推导
  */
  state: () => {
    return{
      count: 100
      foo: 'bar'
    }
  },

  /**
   类似于组件的 computed, 用来封装计算属性, 有缓存功能
  */
  getters: {
    //注意事项: 函数接受可选参数state
    count10(state){
      return state.count+10
    }
  },

  /**
   类似于组件的 methods , 用于封装业务逻辑
  */
  actions: {
    //注意不能使用箭头函数定义action
    changeState(){
      this.count++
      this.foo='hello'
      // $patch 也可使用
      // this.$patch({}) this.$patch(state=>{})
    }
  }
})
// 2.使用容器中的 state

// 3.修改 state

//4.容器中的 action 的使用

```

```

<template>
  <p>
    {{mianStore.count}}
  </p>
  <p>
    {{mianStore.foo}}
  </p>
  <hr>
  <!-- 解构赋值 ----->
  <p>
    {{foo}}
    {{count}}
  </p>

  <hr>
  <button @click='handleChangeState'>
    修改数据
  </button>
</template>
<script lang='ts' setup>
  import { useMianStore } from './index.ts'
  //解决解构赋值后数据响应式
  import { storeToRefs } from 'pinia'

  const mianStore = useMianStore()
  console.log(mianStore.count)
  console.log(mianStore.foo)

  //解构赋值(这是有问题的, 非响应式的)
  const {count,foo}= mianStore
  //解决方案
  //pinia将数据作响应式处理
  const store=storeToRefs( mianStore)
  const {count,foo} = store

  const handleChangeState = () => {
    //方式一: 最简单的方式
    mainStore.count++
    //方式二: 如果需要修改多个数据, 建议使用$patch 批量更新 不太建议
    mianStore.$patch({
      count:mianStore.count+1,
      foo:'hello'
    })
    //方式三: $patch 一个函数 建议使用
    mianStore.$patch(state => {
      state.count++
      state.foo='hello'
    })

    //方式四: 逻辑较多, 用actions
    mianStore.changeStore()
  }

```

```
}  
</script>
```

1.2.2composing API示例:

Composing stores is about having stores that use each other, and this is supported in Pinia. There is one rule to follow:

If **two or more stores use each other**, they cannot create an infinite loop through *getters* or *actions*. They cannot **both** directly read each other state in their setup function:

```
const useX = defineStore('x', () => {  
  const y = useY()  
  
  // ✗ This is not possible because y also tries to read x.name  
  y.name  
  
  function doSomething() {  
    // ✓ Read y properties in computed or actions  
    const yName = y.name  
    // ...  
  }  
  
  return {  
    name: ref('I am X'),  
  }  
})  
  
const useY = defineStore('y', () => {  
  const x = useX()  
  
  // ✗ This is not possible because x also tries to read y.name  
  x.name  
  
  function doSomething() {  
    // ✓ Read x properties in computed or actions  
    const xName = x.name  
    // ...  
  }  
  
  return {  
    name: ref('I am Y'),  
  }  
})
```

Nested Stores

Note that if one store uses another store, you can directly import and call the `useStore()` function within *actions* and *getters*. Then you can interact with the store just like you would from within a Vue component. See

Shared Getters and Shared Actions.

When it comes to *setup stores*, you can simply use one of the stores **at the top** of the store function:

```
import { useUserStore } from './user'

export const useCartStore = defineStore('cart', () => {
  const user = useUserStore()

  const summary = computed(() => {
    return `Hi ${user.name}, you have ${state.list.length} items in your cart. It costs ${state.price}.`
  })

  function purchase() {
    return apiPurchase(user.id, this.list)
  }

  return { summary, purchase }
})
```

Shared Getters

You can simply call `useOtherStore()` inside a *getter*:

```
import { defineStore } from 'pinia'
import { useUserStore } from './user'

export const useCartStore = defineStore('cart', {
  getters: {
    summary(state) {
      const user = useUserStore()

      return `Hi ${user.name}, you have ${state.list.length} items in your cart. It costs ${state.price}.`
    },
  },
})
```

Shared Actions

The same applies to *actions*:

```
import { defineStore } from 'pinia'
import { useUserStore } from './user'

export const useCartStore = defineStore('cart', {
```

```
actions: {
  async orderCart() {
    const user = useUserStore()

    try {
      await apiOrderCart(user.token, this.items)
      // another action
      this.emptyCart()
    } catch (err) {
      displayError(err)
    }
  },
},
})
```

如果您使用的是