

VUE 3 + TYPESCRIPT CHEAT SHEET

```
Activate TypeScript ,
        <script setup lang="ts">
        import { reactive } from 'vue'
        import Counter from './components/Counter.vue'
Create custom type
        interface AppInfo {
         name: string,
          slogan: string
        }
Use custom type
        const appInfo: AppInfo = reactive({
          name: 'Counter',
          slogan: 'an app you can count on'
        </script>
        <template>
          <div>
            <h1>{{ appInfo.name }}</h1>
            <h2>{{ appInfo.slogan }}</h2>
          </div>
          <Counter :limit="10" ></Counter>
        </template> TYPE-SAFE
```

```
<script setup lang="ts">
        import { ref, onMounted } from 'vue'
        import fetchCount from '../services/fetchCount'
        import ControlBar from './ControlBar.vue'
Type your props_
        interface Props {
          limit: number,
          alertMessageOnLimit?: string
        const props = withDefaults(defineProps<Props>(), {
          alertMessageOnLimit: 'can not go any higher'
Type your nullable ref
        const count = ref<number | null>(null)
        onMounted(() => {
          fetchCount((initialCount) => {
            count.value = initialCount
          })
        })
Type your function parameter,
        function addCount(num: number) {
          if (count.value !== null) {
            if (count.value >= props.limit) {
              alert(props.alertMessageOnLimit)
            else {
              count.value += num
          }
        </script>
        <template>
          {{ count }}
          <ControlBar
            @add-count="addCount"
           @reset-count="count = 0"
          ></ControlBar> TYPE-SAFE
        </template>
```

