VUE 3 COMPOSITION API

CHEAT SHEET (Part 1)



```
<script setup>
                                                  If using Vue 2 with Composition API plugin configured:
import { ref, computed } from "vue" -
                                                  import { ref, computed } from "@vue/composition-api";
const capacity = ref(4);
const attending = ref(["Tim", "Bob", "Joe"])
                                                             Reactive Reference
                                                             Wraps primitives/array in an object to track changes
const spacesLeft = computed(() => { -
                                                             Computed Property
  return capacity.value - attending.value.length
});
                                                  Access the value of a Reactive Reference by calling .value
const increaseCapacity = () => {
  capacity.value++
                                                  Methods declared as functions
}
                                                  The template has access to all <script> variables automatically
</script>
<template>
 <div>
    Spaces Left: {{ spacesLeft }} out of {{ capacity }}
                                                                           Use the composition API when:
    <h2>Attending</h2>
                                                                           The component is too large, and
   ul>
                                                                           should be organized by logical
      concerns(feature).
        {{ name }}
                                                                           AND / OR
      Code needs to be extracted and reused
    across mulitiple components, as an
                                                                           alternative to Mixins/Scoped Slots.
    <button @click="increaseCapacity()">Increase Capacity</button>
 </div>
                                                                           AND / OR
</template>
                                                                           Type safety in TypeScript is important.
```

CAN ALSO BE WRITTEN AS:



VUE 3 COMPOSITION API

CHEAT SHEET (Part 2)



TO ORGANIZE BY FEATURE:

```
<script setup>
function useSearch(getResults) {
function useSorting({ input, options }) {
const productSearch = useSearch(  )
</script>
<template>
</template>
```

TO EXTRACT SHARED CODE:

```
<script setup>
import { useSearch } from '@use/search'
import { useSorting } from '@use/sorting'
const productSearch = useSearch(\mathbb{Q})
const resultSorting = useSorting(\{ \equiv \downarrow \})
</script>
<template>
</template>
```

```
use/search.js
 export const useSearch = function(getResults) {
   Q
 }
```

```
use/sorting.js
 export const useSorting = function({ input, options }) {
   ≡↓
```



Missing hooks in <script setup>

There are no onBeforeCreated and onCreated hooks. Just put the corresponding code inside <script setup>.

```
The defineProps compiler macro:
props
<script setup>
                                 Props are reactive
const props = defineProps({
                                 and can be watched
  name: String
})
watch(() => {
  console.log(`name is: ` + props.name)
</script>
```

```
Use the context-related composables
context
<script setup>
import { useSlots, useAttrs } from "vue";
const slots = useSlots()
const attrs = useAttrs()
</script>
```

```
Write them inside <script setup>
life-cycle hooks
<script setup>
import { onMounted, onUpdated } from "vue";
onMounted(() => { ... })
onUpdated(() => { ... })
</script>
Instead of using mounted or updated hooks, just
write code or call functions inside setup() instead.
```

See the API documentation for additional info.