# **VUE 3 COMPOSITION API CHEAT SHEET**



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

## **CAN ALSO BE WRITTEN AS:**

# VUE 3 COMPOSITION API CHEAT SHEET



# **TO ORGANIZE BY FEATURE:**

# **TO EXTRACT SHARED CODE:**

```
■ use/sorting.js

export default function useSorting({ input, options }) {

□
}
```



Watch the Vue 3 Essentials course at **VueMastery.com**, taught by Gregg Pollack.

### The setup() method

Called after beforeCreate hook and before created hook. Does not have access to this.

### props

The first optional argument of setup:

# context

The second optional argument of setup:

```
setup(props, context) {
  context.attrs;
  context.slots;
  context.emit;
  Exposes properties previously
  accessed using this
}
```

#### life-cycle hooks

Declare them inside setup

```
setup() {
  onMounted(() => { ... });
  onUpdated(() => { ... });
  onUnmounted(() => { ... });
}
```

Instead of using beforeCreate or created hooks, just write code or call functions inside setup() instead.

See the API documentation for additional info.