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List Rendering

List rendering in Vue refers to dynamically rendering a list of elements or components using data from an array or object. Vue uses the v-for directive to efficiently render and update lists.

Vue Directives Used

• v-for :- Render and update lists

Syntax

```
    <!i v-for="item in items" :key="item.id">
         {{ item.name }}
```

Example: Loop Over Array Values

Example: Access Index While Looping

```
<script setup>
// An array of colors
const colors = ref(['Red', 'Green', 'Blue'])
</script>

<template>
  <h2>Colors with Index</h2>
```

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```
<!-- Loop through colors and also get index -->

    v-for="(color, index) in colors" :key="index">
        Index: {{ index }} → Color: {{ color }}

        </template>
```

Example: Loop Over an Object (Key-Value Pairs)

```
<script setup>
import { reactive } from 'vue'
// A reactive object representing a student
const student = reactive({
 name: 'Joshi',
 age: 25,
 grade: 'A'
})
</script>
<template>
 <h2>Student Info</h2>
 <!-- Loop through the object using key-value pair -->
   {{ key }}: {{ value }}
   </template>
```

Example: Nested Loops (Loop Inside Loop)

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