

# LU05d - v-if

## Learning objectives

1. I can explain what function v-if directives fulfil within the DOM.
2. I can name the three v-if variants that are possible in principle.
3. I can apply v-if to specific examples.

## Sources

- [W3School - v-if](#)
- [Vue.org - v-if](#)

## Introduction

The v-if directive in Vue.js is used to conditionally render elements in the DOM. If the condition provided in the *v-if* evaluates to true, the element is rendered; otherwise, it is removed from the DOM entirely. This makes v-if a powerful tool for controlling the visibility of elements based on dynamic data.

```
<div id="app">
  <button @click="toggleMessage">Toggle Message</button>
  <p v-if="isVisible">Hello, Vue.js!</p>
</div>
<script>
  new Vue({
    el: '#app',
    data: {
      isVisible: true
    },
    methods: {
      toggleMessage() { this.isVisible = !this.isVisible;
    }
  }
});
</script>
```

In this example above, the paragraph element (<p>) is conditionally displayed based on the value of the *isVisible* data property. Clicking the button toggles the message's visibility.

## Variants

There are basically three variants of *v-if*:

1. v-if
2. v-else-of
3. v-else

## 1. v-if

- Used to conditionally render an element based on whether the condition evaluates to *true*.
- If the condition is *false*, the element is completely removed from the DOM.

### Example:

```
<p v-if="isVisible">This is visible when isVisible is true.</p>
```

## 2. v-else-if

- Used to create an additional condition in conjunction with *v-if*.
- works like an *else-if* statement in programming, allowing multiple conditions to be checked.

```
<p v-if="condition === 'A'">Condition A is true.</p>  
<p v-else-if="condition === 'B'">Condition B is true.</p>
```

## 3. v-else

- Provides a fallback for when none of the *v-if* or *v-else-if* conditions are met.
- It does not accept any condition and must directly follow *v-if* or *v-else-if*.

```
<p v-if="condition === 'A'">Condition A is true.</p>  
<p v-else-if="condition === 'B'">Condition B is true.</p>  
<p v-else>Neither condition A nor B is true.</p>
```

## Additional Material

[Youtube-Tutorial: conditional rendering](#)

## Vocabulary

English	German
to render	ausführen, wiedergeben
conjunction	verbindung



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