

# LU05d - v-show

## Learning objectives

1. I can explain what directive v-show fulfil within the DOM.
2. I can prove the visibility of objects using v-show.
3. I can use the v-show directive.

## Sources

- [W3School | W3School | Conditional Rendering - v-show](#)
- [Vuejs.org | Conditional Rendering - v-show](#)

## Introduction

The v-show directive in Vue.js is used to conditionally display elements based on a boolean expression. *Unlike v-if, which completely removes elements from the DOM when the condition is false, v-show toggles the CSS display property, keeping the element in the DOM but hiding it visually.* This makes v-show more efficient when elements need to be frequently shown or hidden without re-rendering. It is best suited for UI toggles, such as modals, dropdowns, or tooltips.

The syntax is simple: isVisible controls the visibility of the element dynamically

```
<div v-show="isVisible">Content</div>
```

## Example

```
<template>
  <div>
    <button @click="isVisible = !isVisible">
      Toggle Message
    </button>
    <p v-show="isVisible">Hello, Vue.js!</p>
  </div>
</template>
```

```
<script>
  export default {
    data() {
      return {
        isVisible: true
      };
    }
  };
</script>
```

```
}
};
</script>
```

### Explanation:

- The v-show=„isVisible“ directive controls the visibility of the <p> element.
- Clicking the button toggles isVisible between true and false.
- Instead of removing the element from the DOM, Vue modifies its display property.

## v-if VS v-show

Both, v-if and v-show are conditional rendering, but unlike v-if, the v-show directive **only** make the object of concern **invisible**, for it is yet hidden part of the HTML-DOM.

## Demonstration

### v-show VS v-if

- **v-show:** Hides only an object, it is still accessible for fold-in or fold-out
- **v-if:** The object of concern is no longer existing, as it was destroyed from the HTML-DOM.

Feature	v-if	v-show
DOM Behavior	Completely adds/removes elements from the DOM	Only toggles the display property (keeps elements in the DOM)
Performance	Better for infrequent changes (expensive re-rendering)	Better for frequent toggling (faster updates)
Usage Case	When elements are rarely shown/hidden	When elements need to be toggled frequently

## Vocabulary

English	German
conditionally	bedingt
to fold in/out	einklappen/ausklappen



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