

# LU05a - VUE Directives

## Learning objectives

1. I can explain what *Vue Directives* are.
2. I can explain what *Vue Directives* are used for.
3. I can name and explain at least four types of directives.
4. I can use VUE directives as an example.

## Introduction

Vue directives are special tokens in *Vue.js* that extend the functionality of HTML by providing dynamic behavior to DOM elements. They are prefixed with *v-* and are used to bind data, manipulate DOM attributes, or listen to events. Common directives include *v-bind* for binding attributes, *v-if* for conditional rendering, and *v-for* for looping over data. By leveraging directives, developers can create highly interactive and reactive user interfaces with minimal effort.

## Key Features

- 1. Reactivity:** Automatically update the DOM when the underlying data changes.
- 2. Extensibility:** You can create custom directives for advanced behavior.
- 3. Simplicity:** Integrate seamlessly into templates for common tasks like event handling or conditional rendering.

## Examples

1. **v-if:** Conditionally renders an element or removes it from the DOM based on the truthiness of an expression.
2. **v-for:** Iterates over a list or object, generating a new element for each item in the collection.
3. **v-bind:** Dynamically binds an attribute (e.g., ``src``, ``class``, ``style``) to an expression, allowing for reactive updates.
4. **v-model:** Creates a two-way binding between a form input or component and a Vue instance's data property.

## Source

- [W3School - VUE Directives](https://www.w3schools.com/vue/)

## Vocabulary

English	German
token	Merkmal, Eigenschaft
to leverage	einsetzen, anwenden

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Volkan Demir

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