

# LU07.S02 - Methods with arguments

## Prerequisites

- Work type: Individual
- Means of aid: only teaching materials, no websearch, no use of ai.
- Timeframe: 15 Minutes
- Expected result: A Vue-Script, which uses methods to display messages on the screen and increments and decrements a counter.

## Learning Objectives

1. Implementing VUE methods by using arguments.
2. Increment and decrement a counter within a method.
3. Writing own methods and making use of them.

## Assignment A - 2'

- A01: Test the code example above which was provided to you. Describe the behaviour of the script using HTML comments.
- A02: Make sure that everything is working correctly: The moose-count uses the method **addMoose** by processing the number we need to count up or down
  1. increments by 1
  2. decrements by -1
  3. increments by +5

A03: Make sure that you have the title `<h1>` and have correctly named the file: **lu07.s02.html**

## Assignment B - 5'

- B01: Currently we can increment by +1 and +5, and decrement by -1.
- B02: Similar to **addMoose** add method **removeMoose** which manages the decrement operations and use it.
- B03: Test your results and save it.
- B04: Add more buttons which can
  1. increment by +10
  2. decrement by -10
  3. decrement by -5
- B05: The aim is to have 3 increment-buttons (+1, +5, +10) and 3 decrement-buttons (-1, -5, -10)

## Assignment C: Catching numbers below zero (0) - 8'

- C01: At 0 we must stop counting, when the count reaches the zero.
- C02: Add the case below zero to your **removeMoose-method** by checking the **count** with a if-statement
- C03: Check the result: It must stop at zero when the button **removeMoose** when the count reaches 0.
- C04: In the case below zero the user must be informed accordingly.


## Solution

```
<html lang="en"> Show component usages
<body>
<div id="app">
</div>

<script src="https://unpkg.com/vue@3/dist/vue.global.js"></script>
<script>
  const app = Vue.createApp( rootComponent: {
    data() {
      return {
        count: 0,
        message: ""
      };
    },
    methods: {
      // Method to add moose
      addMoose(number) {
        this.count += number;
        this.message = "";
      },
      // Method to remove moose including
      // check of stop at 0
      removeMoose(number) {
        if (this.count - number >= 0) {
          this.count -= number;
          this.message = "";
        } else {
          this.message = "Sie dürfen nicht weniger als 0 Moose haben!";
        }
      }
    }
  });
  app.mount("#app");
</script>
```

### LU07.A02 - MooseCount, implemented with methods

Example: Passing Arguments  
with Methods



Moose count: 0

+1 +5 -1 -5 +10  
-10

lu07.s02.zip

## Vocabulary

English	German
corresponding number of times	entsprechend oft
to increment	erhöhen, hochzählen
to decrement	vermindern, herunterzählen
thus	somit, dadurch



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