

# LU06.S07 - Events - color changing

## Solution

Source-code of the solution

### Assignment A

1. Test the code example provided to you: When moving the mouse over a list food elements each element must change the backgroundcolour to grey.
2. Make sure that you have the title `<h1>` and have the correct filename: **lu06.s07.html**
3. After moving the mouse over the color area the background-color should change randomly. Behind this effect there is a sophisticated Math-Operation.
4. Replace the math-method with a **simple increment** operation with **step-size 1**.
5. Start with the **color value of 0**.

### Assignment B

1. Add another area for the a **right-click** event.
2. Start with a **color value of 120**
3. Decrement **step-size is 2**

### Assignment C

1. Add another area for the a **left-click** event.
2. Start with a **color value of 240**
3. Increment **step-size is 5**

### Assignment C

1. Add another area for the a **left-click** event.
2. Start with a **color value of 240**
3. Increment **step-size is 5**

### Assignment D

1. Add another area for the a **mouseover** event.
2. Start with a **color value of 360**
3. Decrement **step-size is 10**

### Assignment E

1. Add to all four textareas a mouse-middle event which resets all colour to the initial values.
2. **Hint:** To get the initial values, you need to store te values in separately in the first place: either in 4 variables or in a array with all four initial values.

```
... mouse-right-click with step-size 2 count down...
<div @click.right="colorVal1--2" v-bind:style="{backgroundColor: 'hsl('+colorVal1+',60%,60%)'}">
  <!-- Assignment E -->
  <strong @click.middle="colorVal1-colorValues[1]">backgroundColor: hsl({{ colorVal1 }}, {{ s_value }}, {{ l_value }}) </strong>
</div>
<!-- Assignment C -->
<h4>C: Mouse left-click with step-size 5 count up</h4>
<div @click.left="colorVal2+=5" v-bind:style="{backgroundColor: 'hsl('+colorVal2+',60%,60%)'}">
  <!-- Assignment E -->
  <strong @click.middle="colorVal2-colorValues[2]">backgroundColor: hsl({{ colorVal2 }}, {{ s_value }}, {{ l_value }}) </strong>
</div>
<!-- Assignment D -->
<h4>D: Mouseover with step-size 10 count down</h4>
<div v-on:mouseover="colorVal3--10" v-bind:style="{backgroundColor: 'hsl('+colorVal3+',60%,60%)'}">
  <!-- Assignment E -->
  <strong @click.middle="colorVal3-colorValues[3]">backgroundColor: hsl({{ colorVal3 }}, {{ s_value }}, {{ l_value }}) </strong>
</div>
<!-- Assignment E -->
<h4>E: Mouse middle-click for reset of all background-color of concern separeately</h4>
</div>
</script>
<script src="https://unpkg.com/vue3/dist/vue.global.js"></script>
<script>
const app = Vue.createApp({
  data() {
    return {
      colorValues: [0,120,240,360],
      colorVal0: 0,
      colorVal1: 120,
      colorVal2: 240,
      colorVal3: 360,
      s_value: '90%',
      l_value: '50%'
    }
  }
})
app.mount('#app')
```

### LU06.A07: Color changing

Move the mouse pointer over the box below to change the background-color randomly with hsl color code.

- A: Simple click with step-size 1 count up  
background-color: hsl(0, 90%, 50%)
- B: Mouse right-click with step-size 2 count down  
background-color: hsl(120, 90%, 50%)
- C: Mouse left-click with step-size 5 count up  
background-color: hsl(240, 90%, 50%)
- D: Mouseover with step-size 10 count down  
background-color: hsl(360, 90%, 50%)
- E: Mouse middle-click for reset of all background-color of concern separeately



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