

LU06.A08 - Events - basic calculator - TBD

Prerequisites

- Work type: Individual
- Means of aid: only teaching materials, no websearch, no use of ai.
- Timeframe: 30 Minutes
- Expected result: Changing the colour of a area which the reacting to events e.g.
 - simple-click
 - mouseover
 - mouse.right-click
 - mouse-left-click
 - mouse-middle-click

Source

- [Source-code for the assignment](#)

Assignments

The idea of this assignment is to exercise on the one hand the four basic events, and on the other hand the increment and decrement-operators with various step-sizes. As a base for our exercise we are going to change the appearance of html-visual-elements such as background colour. Your result should look as following

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

`backgroundColor: hsl(0, 90%, 50%)`

B: Mouse right-click with step-size 2 count down

`backgroundColor: hsl(120, 90%, 50%)`

C: Mouse left-click with step-size 5 count up

`backgroundColor: hsl(240, 90%, 50%)`

D: Mouseover with step-size 10 count down

`backgroundColor: hsl(360, 90%, 50%)`

E: Mouse middle-click for reset of all background-color of concern seperately

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 colour area the background-colour 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 **colour value of 0**.

Assignment B

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

Assignment D

1. Add another area for the a **mouseover** event.
2. Start with a **colour 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.

Solution

[Lösung](#)

Vocabulary

English	German
to compraise	beinhalten
sophisticated	raffiniert, anspruchsvoll
appearance	Erscheinung



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