

RGB Mixer

Your task is to create a small app for mixing RGB colors.

Under „Mixed color“ is the rectangle which will show the current mixed color.

By clicking on + or – you should change the value of the color depending on the „Change by“ value.

If the Change by value is 15 and the user clicks two times on the + button for the red color you should set RGB values to 30, 0, 0.

Users can also set the Opacity and the results should be visible in the mixed color box.

Change by and Opacity are input fields.

Under the Color box is the „Randomize“ button, on the click it should generate random RGB values and show that color in the box above. The right of the button shows current random color RGB values.

Initial values:

Change by: 15

Opacity: 1

Mixed color: 0, 0, 0

Validations:

„Change by“ can be between 0 and 255. If the values are below 0 or above 255 in the mixed color box add a big error message: Wrong value.

„Opacity“ can be set between 0 and 1. Same validation like for the „Change by“.

Red, Green, Blue + - buttons should have validation to go from 0 until 255. For example, if the red is 255 and the user clicks on the + button, nothing should happen and the value should stay at 255. Similar for the – button and the 0. It can't go below 0.

Provided mockup can give you an overview of the app but you are free to design it as you like.

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Change by:


Opacity:

Red

Green

Blue

Mixed color



Randomize

R: 0, G: 36, B: 60