

Code Puzzles

Pick any of these puzzles if you want to train your web development or JavaScript skills.

Repeating input

Create a new HTML file with an input and a paragraph element. When typing into the input the paragraph should update and show `You typed: X` (`X` is what the user actually typed).

To listen to to these events use a `change` listener:

```
inputElement.addEventListener('change', event => {  
  /* ... */  
})
```

Reverting input

Basically the same mini-app as the repeating input but this time the user input is shown reversed in the paragraph.

Password Strength detector

Create a new HTML file with an input and a paragraph element. When typing into the input the paragraph should update and show the strength of the password:

- Less than 6 characters: `Weak`
- More than 6 and less than 10: `Medium`
- More than 10: `Strong`
- More than 20: `Very Strong`

If you feel like it you can add more rules like:

- `Medium` should at least have upper and lower case letters
- `Strong` should have upper and lower case letters and a number
- `Very Strong` should have upper and lower case letters, a number and a special character

Random Color

Create a new HTML with a div and a button. Each time the button is clicked the background color of the div should change to a new random color.

You can use this array of colors if you don't want to make up your own:

```
const colors = [
  "palegoldenrod",
  "palegreen",
  "paleturquoise",
  "palevioletred",
  "papayawhip",
  "limegreen",
  "red",
  "blue",
  "green",
  "yellow",
  "yellowgreen",
  "greenyellow",
  "aqua",
]
```

Start Stop Button

Create a new HTML file with a paragraph and a button. Initially, the paragraph should say `Running` and the button `Stop`. When the button is clicked the paragraph should switch to `Paused` and the button to `Start`. When clicking it again the initial texts (`Running` and `Stop`) should be shown.

Color Chooser

Create a new HTML file with a div, 3 inputs and a button. The three inputs should accept numbers between 0 and 255. One is labeled `red`, one `blue` and one `green`. When the button is clicked you should read the values of the inputs and set the background color of the div with them.

```
divElement.style.backgroundColor = `rgb(${red}, ${green}, ${blue})`
```

Alternating row colors

Create a new HTML file with a long list (`ul`) of items (`li`). Select all items in JavaScript and apply a CSS class to every second item. The CSS should set the background color of the element.

Random Cat images

Create new HTML file and use fetch to load and display a random cat image from `https://aws.random.cat/meow`.

You can also add a button to load a new image.

PS: There's also an API for dogs if that's your thing: `https://random.dog/woof.json`

PPS: There's also one for foxes: <https://randomfox.ca/floof/>