

Interactive
classes with

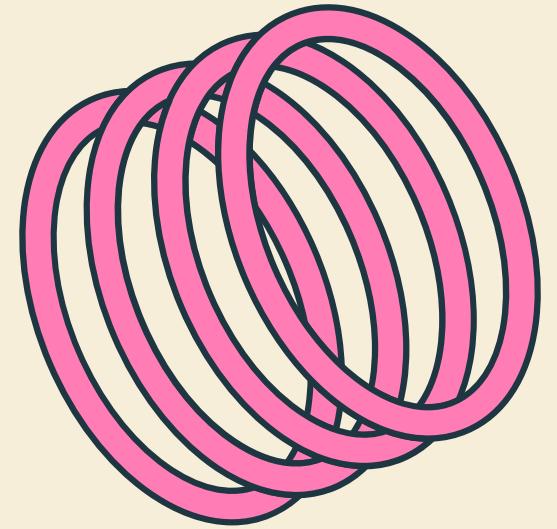
PROGRAMMING

@felipeschaitel

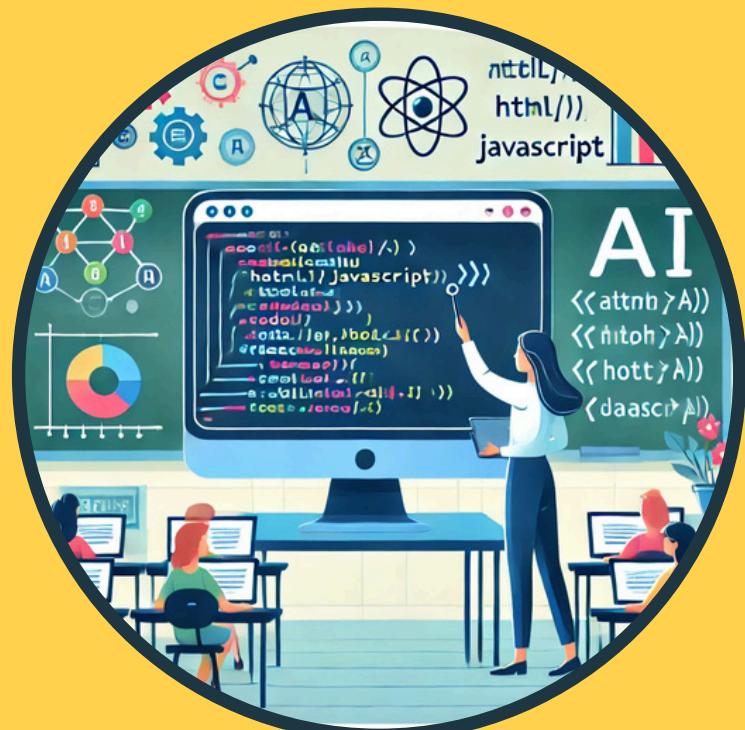
```
1 <!oficina>
2 <html lang="pt">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>AULAS INTERATIVAS COM PROGRAMAÇÃO</title>
7   <style>
8     body {
9       font-family: Arial, sans-serif;
10      background-color: #f4f4f9;
11      display: flex;
12      justify-content: center;
13      align-items: center;
14      height: 100vh;
15      margin: 0;
16    }
17    .container {
18      text-align: center;
19      background-color: #fff;
20      padding: 40px;
21      border-radius: 10px;
22      box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
23    }
24    h1 {
25      color: #333;
26    }
27    .button {
28      background-color: #4CAF50;
29      color: white;
30      padding: 15px 32px;
31      font-size: 16px;
32      border: none;
33      border-radius: 5px;
34      cursor: pointer;
35      transition: 0.1s;
36      min-top: 20px;
37    }
38    .button:hover {
39      background-color: #45a049;
```

WHAT WILL WE LEARN?

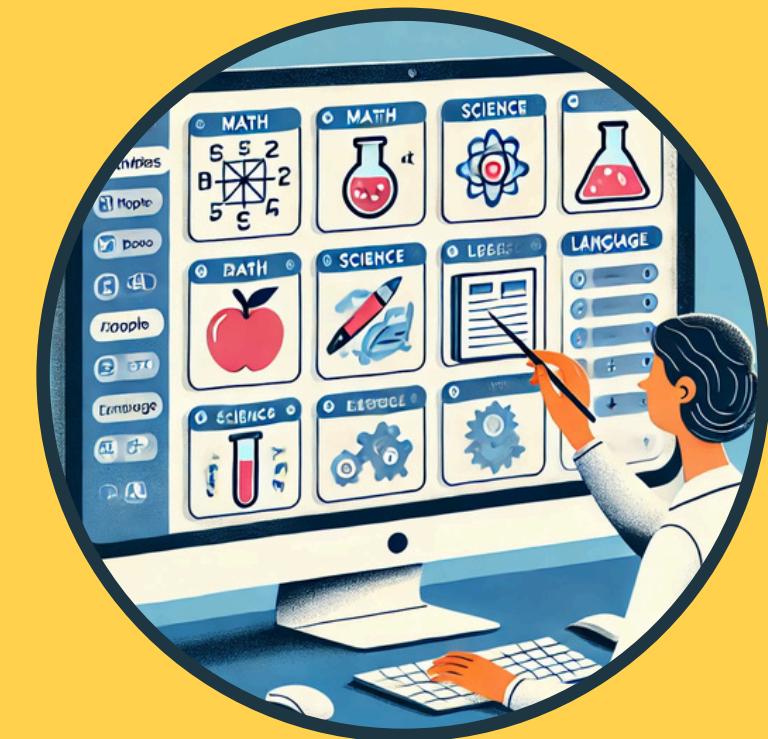
In this workshop, we will explore how Artificial Intelligence can help teachers create interactive tools in HTML and JavaScript to make lessons more dynamic and personalized.



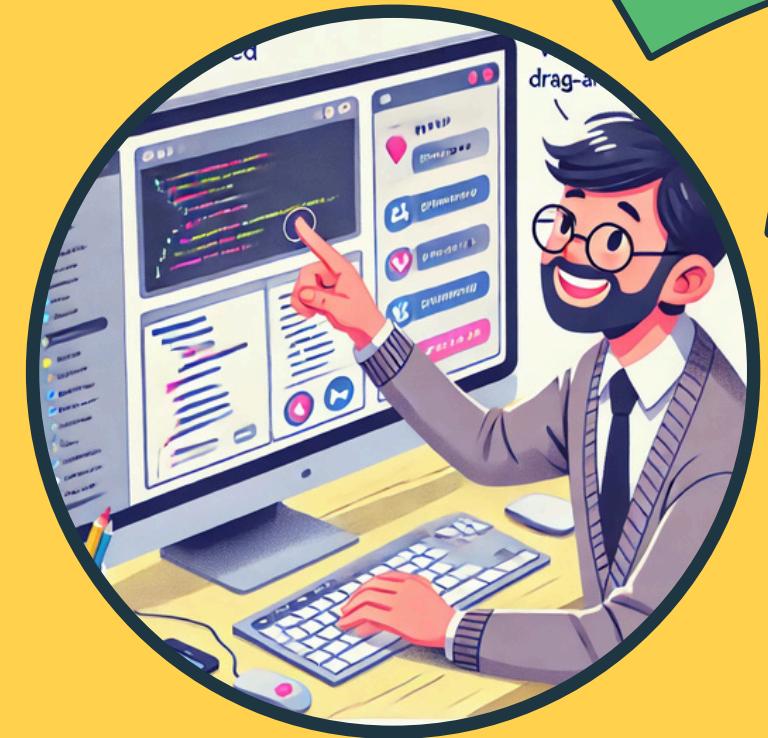
WHY USE AI TO GENERATE CODE?



Quick creation of interactions without needing to code from scratch.



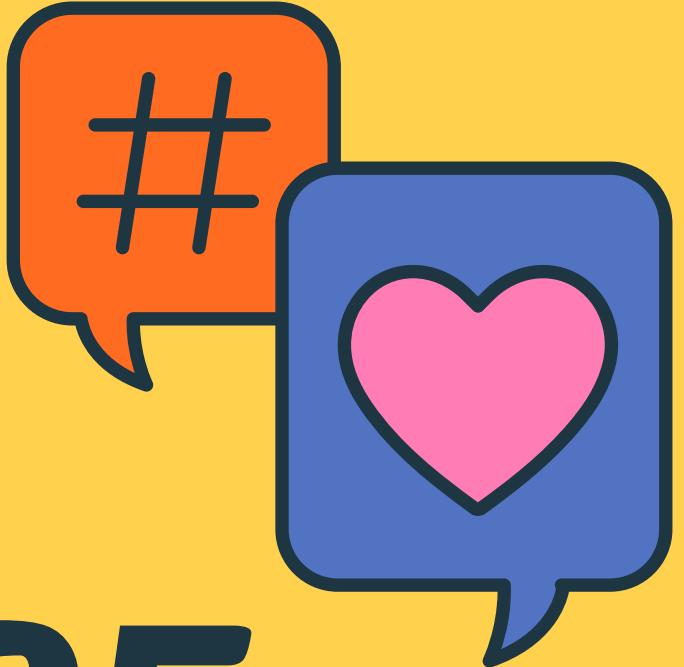
Customization of activities according to the subject.

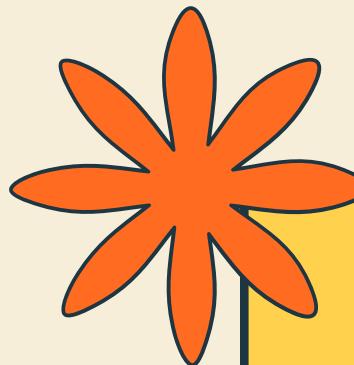


Time-saving in the preparation of teaching materials.



BASIC FUNDAMENTALS OF HTML, CSS, AND JAVASCRIPT





HTML - BUILDING THE STRUCTURE

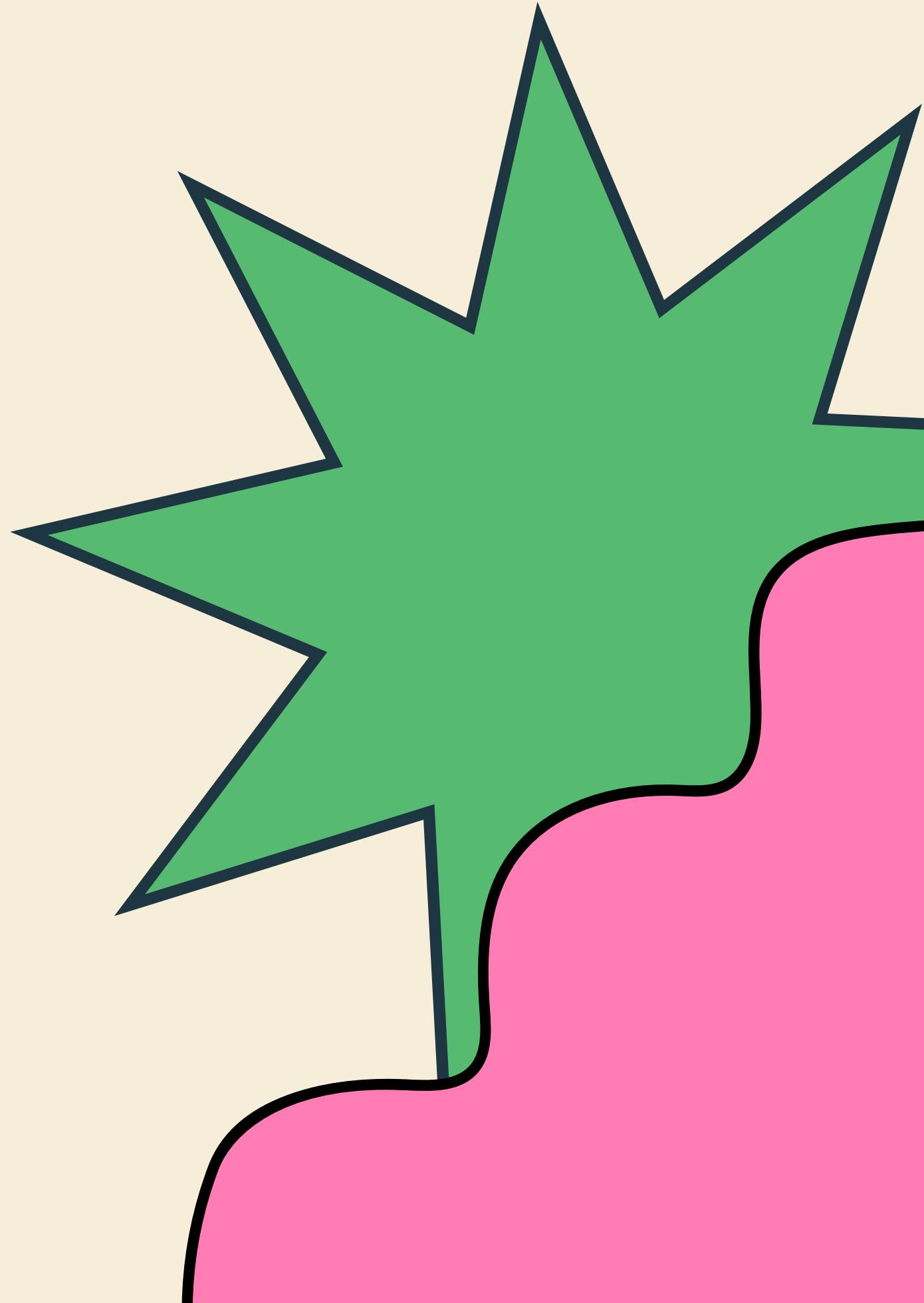
HTML is the foundation of any web page.

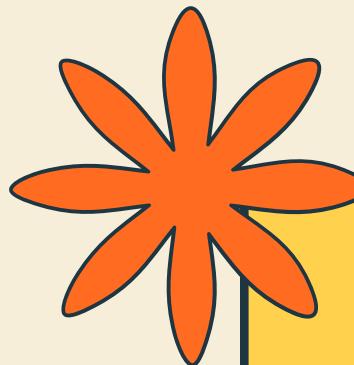
Main elements:

- `<button>` to create interactive buttons.
- `<div>` to organize content.
- `<script>` to add interactivity with JavaScript.

Example of a simple button:

```
<button onclick="alert('Hello, world!')">Click here</button>
```



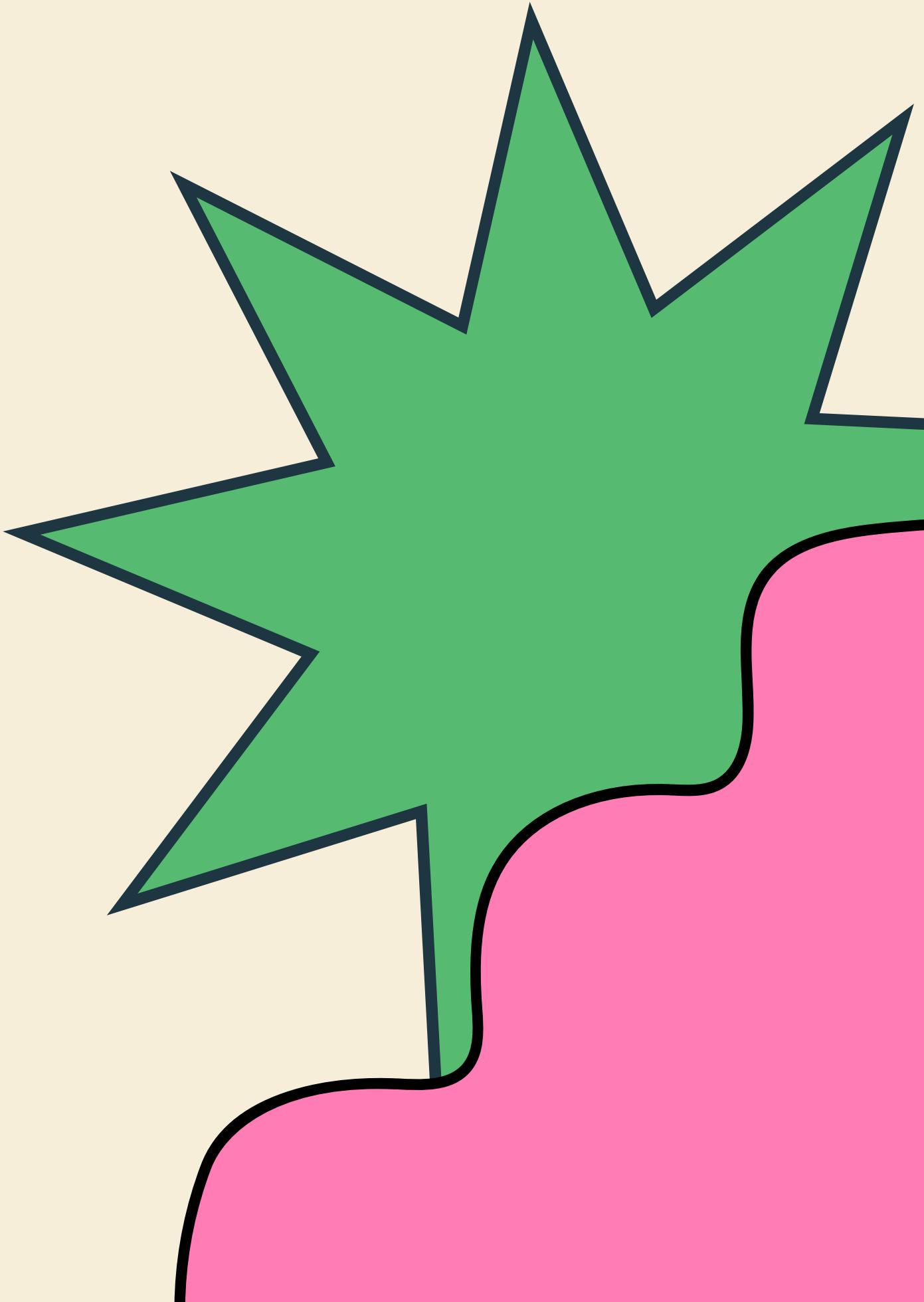


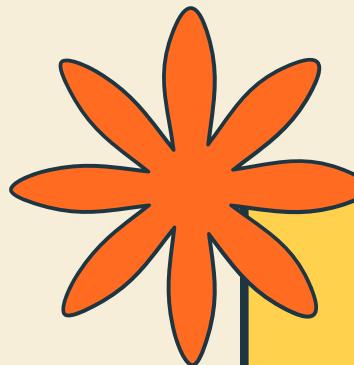
CSS - CUSTOMIZING THE APPEARANCE

Defines colors, fonts, and spacing.

Example of a button style:

```
button {  
    background-color: blue;  
    color: white;  
    padding: 10px;  
    border-radius: 5px;  
}
```





JAVASCRIPT - CREATING INTERACTIVITY

Allows you to add functions like changing colors, displaying messages, etc.

Example of a button that changes color when clicked:

```
<button id="botao">Clique para mudar de cor</button>
<script>
  document.getElementById("botao").onclick = function() {
    this.style.backgroundColor = "red";
  }
</script>
```



GENERATING CODE WITH AI

How to use ChatGPT to generate code?

Example of a prompt to generate an interactive button:

Create an HTML and JavaScript button that, when clicked, displays a random quiz question with three answer options.

GENERATING CODE WITH AI



EXPECTED OUTPUT

```
1 <button onclick="mostrarPergunta()">Iniciar Quiz</button>
2 <p id="pergunta"></p>
3 <script>
4   function mostrarPergunta() {
5     const perguntas = [
6       "Qual é a capital da França?",
7       "Quem escreveu 'Dom Quixote'?",
8       "Quanto é 7 x 8?"
9     ];
10    document.getElementById("pergunta").innerText = perguntas[Math.floor(Math.random() * perguntas.length)];
11  }
12 </script>
```



CREATING PEDAGOGICAL TOOLS

1

Choose a theme

2

Create a simple interaction based on your subject

3

Save the HTML code in a text editor

SUGGESTIONS:

- **Mathematics:** Button that generates random equations for students to solve.
- **History:** Button that displays a random historical event.
- **Portuguese:** Button that draws words to form sentences.
- **Science:** Interactive quiz about the human body.

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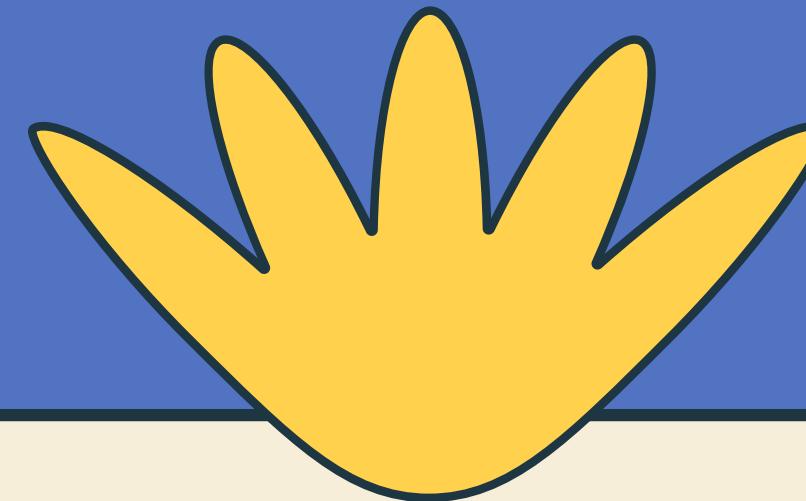
TECHNOLOGY IS BEST
WHEN IT BRINGS
PEOPLE TOGETHER.

- Matt Mullenweg

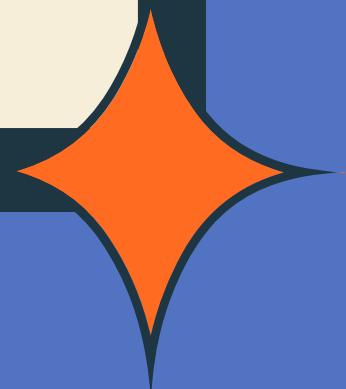
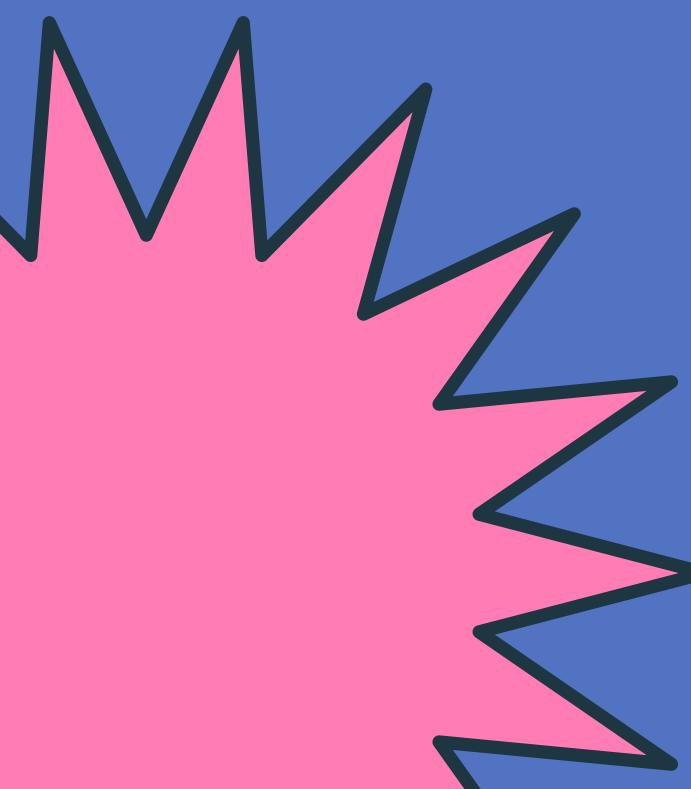


99

SHARING AND DISCUSSION



How to improve and expand the use of
AI to create new tools?





THANK YOU

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