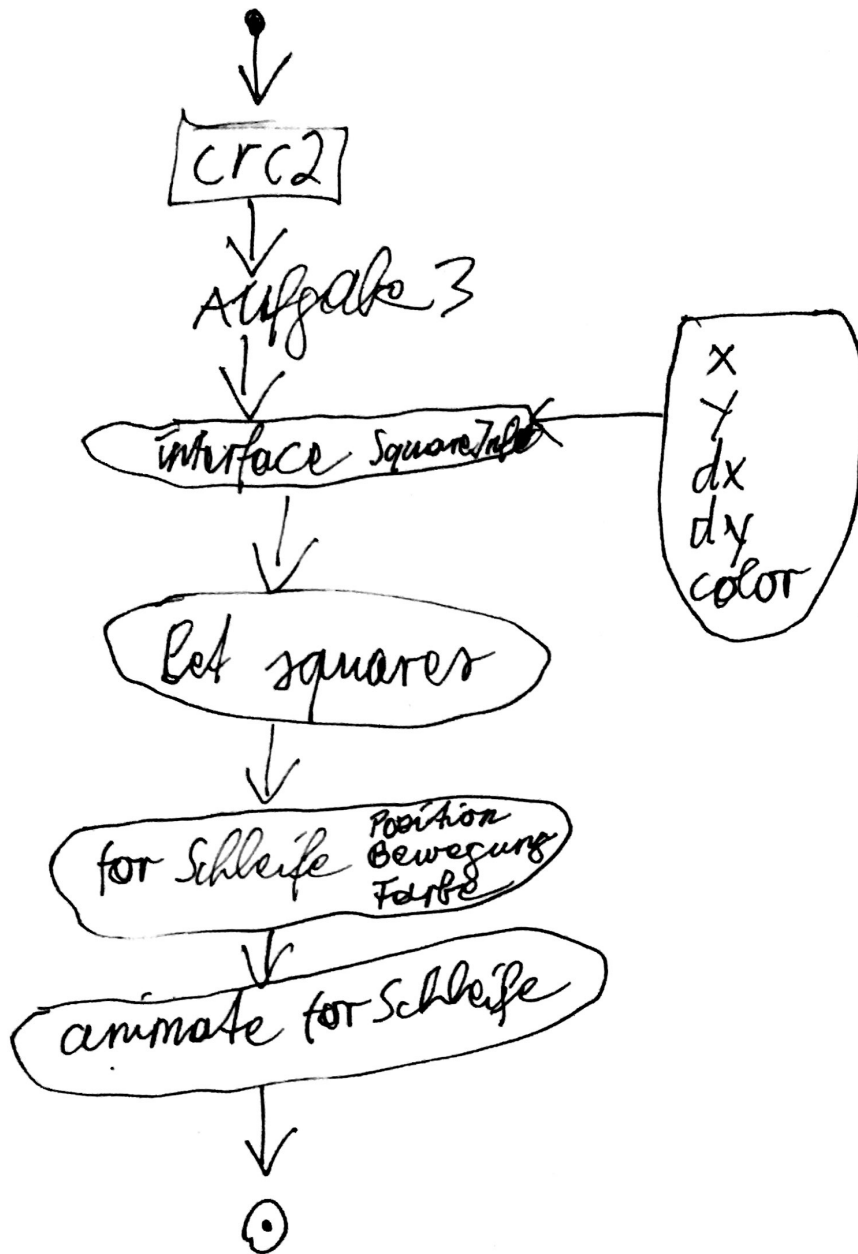


AD



Main.ts

```
1 namespace L04_InterfaceArray {
2     interface SquareInfo {
3         x: number;
4         y: number;
5         dx: number;
6         dy: number;
7         color: string;
8     }
9
10    window.addEventListener("load", init);
11    let crc2: CanvasRenderingContext2D;
12    let squares: SquareInfo[] = [];
13
14
15    function init(): void {
16        let canvas: HTMLCanvasElement =
17            document.getElementsByTagName("canvas")[0];
18        console.log(canvas);
19
20        crc2 = canvas.getContext("2d");
21        console.log(crc2);
22
23        console.log("setTimeout");
24        animate();
25
26        for (let i: number = 0; i < 3100; i++) {
27            squares[i] = {
28                x: 0 0,
29                y: 100 135,
30                dx: 6Math.random() * 2 - 1,
31                dy: 3.6Math.random() * 2 1,
32                color: "hsl(" + Math.random() * 360 + ",
33                    100%, 50%)"
34            };
35        }
36    }
37}
```

Main.ts

```
35      // hier Hintergrund speichern
36  }
37
38  function animate(): void {
39      console.log("Timeout");
40      crc2.clearRect(0, 0, 400, 300); // hier
    Hintergrund restaurieren
41      for (let i: number = 0; i < squares.length; i++)
42      {
43          moveAndDrawSquare( squares[i] );
44      }
45      window.setTimeout(animate, 20);
46  }
47
48  function moveAndDrawSquare(_square: SquareInfo):
    void {
49      _square.x += _square.dx;
50      _square.y += _square.dy; // andere
    Bewegungsmuster zu finden
51      crc2.fillStyle = _square.color;
52      crc2.fillRect(_square.x, _square.y, 20, 20); // Skifahrer
53  }
54 }
```