

Boxes: Tracetable

Mit Hilfe von Lisa Fodor

namespace Boxes n: number = 5

| Nr. | color | x | y | i | size | Kommentare |
|-----|---------|--------|--------|--------|----------|--|
| | String | number | number | number | string | |
| 9 | | 0 | | | | |
| 10 | | | 0 | | | |
| 12 | | | | 0 | | i < 5 (0<5) -> true |
| 13 | | | 50 | | | i == 2 -> 0(y) == 2? -> false -> Wert nach Doppelpunkt wird zugewiesen |
| 14 | | 170 | | | | x + 170 (0 + 170) |
| 15 | | | | 0 | | Switch Case schaut wie groß i ist -> 0 |
| 17 | ##f0000 | | | | | Farbe ändert sich in rot |
| 18 | | | | | | break -> Schleife wird beendet und springt in die nächste Schleife |
| 29 | | | | | "big" | |
| 30 | | | | | Text | Ausführen von createBox |
| 31 | | | | | | if (i == 4) 0==4 -> false |
| 29 | | | | | "medium" | |
| 30 | | | | | | Ausführen von createBox |
| 31 | | | | | | if (i == 4) 0==4 -> false |
| 29 | | | | | "small" | |
| 30 | | | | | | Ausführen von createBox |
| 31 | | | | | | if (i == 4) 0==4 -> false |
| 33 | | | | | | Zurückspringen in erste Schleife da das Array keine Werte mehr hat |

| | | | | | | |
|----|--------|-----|-----|---|----------|--|
| 12 | | | 100 | 1 | | i++ -> i < 5 (1<5) -> true |
| 13 | | | | | | i == 2 -> 1 == 2 -> false -> y=50 += 50 -> 100 |
| 14 | | 340 | | | | x + 170 (170 + 170) |
| 15 | | | | 1 | | i -> 1 Springt gleich zu Case 4 in Zeile 16 da Case 1 leer ist |
| 17 | 00ff00 | | | | | Farbe ändert sich in grün |
| 18 | | | | | | break -> Schleife wird beendet und springt in nächste Schleife |
| 29 | | | | | "big" | |
| 30 | | | | | | Ausführen von createBox |
| 31 | | | | | | if (i == 4) 1==4 -> false |
| 29 | | | | | "medium" | |
| 30 | | | | | | Ausführen von createBox |
| 31 | | | | | | if (i == 4) 1==4 -> false |
| 29 | | | | | "small" | |
| 30 | | | | | | Ausführen von createBox |
| 31 | | | | | | if (i == 4) 1==4 -> false |
| 33 | | | | | | Zurückspringen in erste Schleife da das Array keine Werte mehr hat |

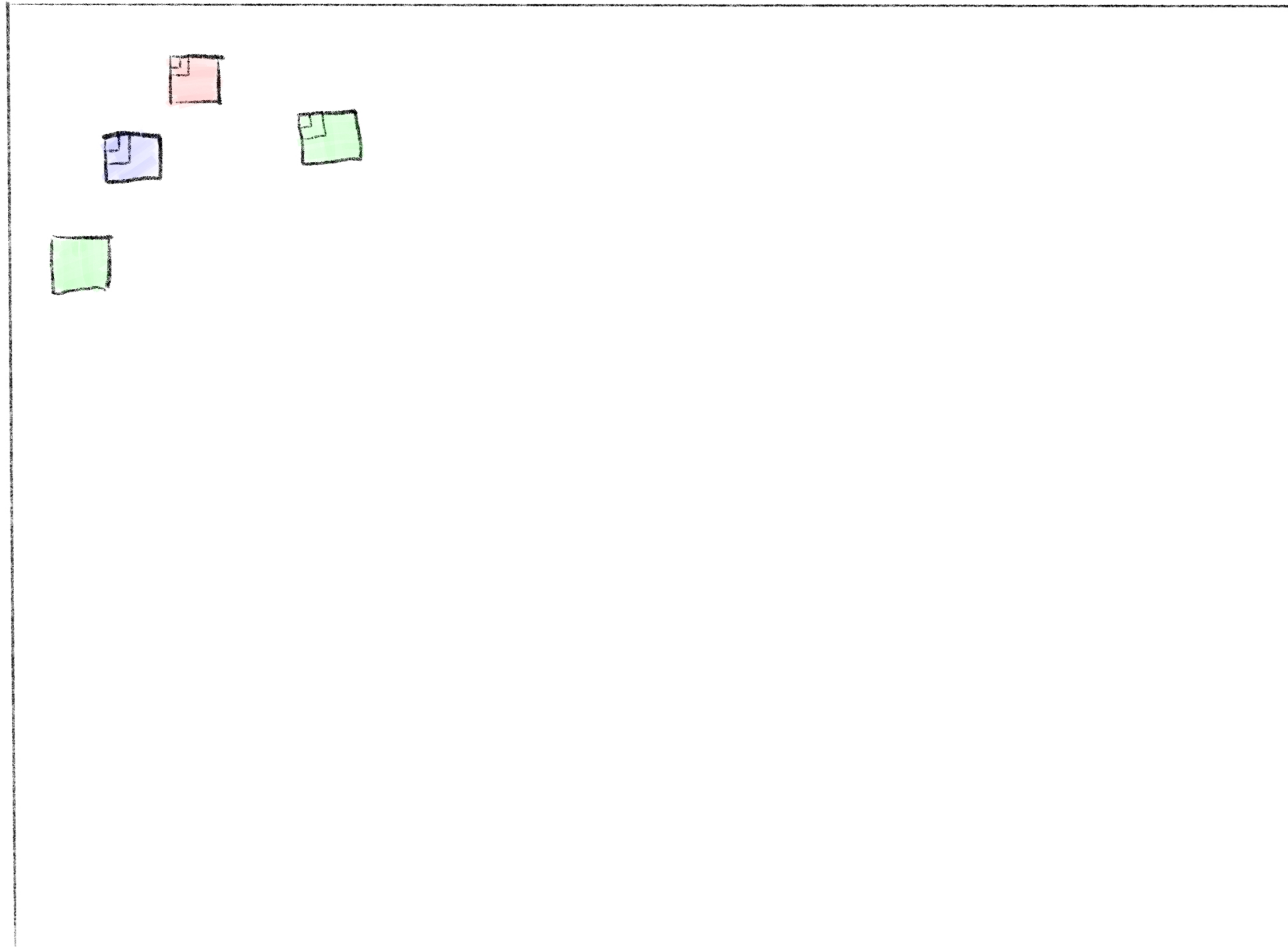
| | | | | | | |
|----|--------|-----|-----|---|----------|--|
| 12 | | | 120 | 2 | | i++ -> i < 5 (2<5) -> true |
| 13 | | | | | | i == 2 -> 2 == 2 -> true -> y=100 += 20 -> 120 |
| 14 | | 110 | | | | x + 170 (340+ 170 / 400) /400 weil Zahl über 400 is |
| 15 | | | | 2 | | Switch Case schaut wie groß i ist -> 2 |
| 17 | 0000ff | | | | | Farbe ändert sich in blau |
| 29 | | | | | "big" | |
| 30 | | | | | | Ausführen von createBox |
| 31 | | | | | | if (i == 4) 2==4 -> false |
| 29 | | | | | "medium" | |
| 30 | | | | | | Ausführen von createBox |
| 31 | | | | | | if (i == 4) 2==4 -> false |
| 29 | | | | | "small" | |
| 30 | | | | | | Ausführen von createBox |
| 31 | | | | | | if (i == 4) 2==4 -> false |
| 33 | | | | | | Zurückspringen in erste Schleife da das Array keine Werte mehr hat |

| | | | | | | |
|----|---------|-----|-----|---|-------|---|
| 12 | | | 170 | 3 | | i++ -> i < 5 (3<5) -> true |
| 13 | | | | | | i == 2 -> 3 == 2 -> false -> y=120 += 50 -> 170 |
| 14 | | 280 | | | | x + 170 (110 + 170) |
| 15 | | | | | | continue |
| 12 | | | 220 | 4 | | i++ -> i < 5 (4<5) -> true |
| 13 | | | | | | i == 2 -> 4 == 2 -> false -> y=170 += 50 -> 220 |
| 14 | | 50 | | | | x + 170 (280+ 170 / 400) /400 weil Zahl über 400 is |
| 21 | #00ff00 | | | | | |
| 29 | | | | | "big" | |
| 25 | | | | | | Ausführen von createBox |
| 26 | | | | | | if (i == 4) 4==4 -> true -> break -> FERTIG |

createBox

| Nr. | _color | _x | _y | _size | div | Kommentare |
|-----|------------------|-----|-----|----------|----------------------|------------------------------|
| 36 | "#ff0000" - rot | 170 | 50 | "big" | | |
| 37 | | | | | createElement("div") | |
| 38 | | | | | | appendChild |
| 39 | | | | | | add.class("Size" -> medium) |
| 40 | | | | | | bgcolor=_color #ff0000 |
| 41 | | | | | | style.left=_x+"px" (170px) |
| 42 | | | | | | style.height=_y+"px" (50px) |
| 43 | | | | | | Funktion zu Ende |
| 36 | "#ff0000" - rot | 170 | 50 | "medium" | | |
| 37 | | | | | createElement("div") | |
| ... | | | | | | Auführung Zeile 38 - 43 |
| 36 | "#ff0000" - rot | 170 | 50 | "small" | | |
| 37 | | | | | createElement("div") | |
| ... | | | | | | Auführung Zeile 38 - 43 |
| 36 | "#00ff00" - grün | 340 | 100 | "big" | | |
| 37 | | | | | createElement("div") | |
| 38 | | | | | | appendChild |
| 39 | | | | | | add.class("Size" -> medium) |
| 40 | | | | | | bgcolor=_color #00ff00 |
| 41 | | | | | | style.left=_x+"px" (340px) |
| 42 | | | | | | style.height=_y+"px" (100px) |
| 43 | | | | | | Funktion zu Ende |
| 36 | "#00ff00" - grün | 340 | 100 | "medium" | | |
| 37 | | | | | createElement("div") | |
| ... | | | | | | Auführung Zeile 38 - 43 |
| 36 | "#00ff00" - grün | 170 | 50 | "small" | | |
| 37 | | | | | createElement("div") | |
| ... | | | | | | Auführung Zeile 38 - 43 |
| 36 | "#0000ff" - blau | 340 | 100 | "big" | | |
| 37 | | | | | createElement("div") | |
| 38 | | | | | | appendChild |
| 39 | | | | | | add.class("Size" -> medium) |
| 40 | | | | | | bgcolor=_color #00ff00 |
| 41 | | | | | | style.left=_x+"px" (340px) |
| 42 | | | | | | style.height=_y+"px" (100px) |
| 43 | | | | | | Funktion zu Ende |
| 36 | "#0000ff" - blau | 110 | 120 | "medium" | | |
| 37 | | | | | createElement("div") | |
| ... | | | | | | Auführung Zeile 38 - 43 |
| 36 | "#0000ff" - blau | 110 | 120 | "small" | | |
| 37 | | | | | createElement("div") | |
| ... | | | | | | Auführung Zeile 38 - 43 |
| 36 | "#00ff00" - grün | 50 | 220 | "big" | | |
| 37 | | | | | createElement("div") | |
| 38 | | | | | | appendChild |
| 39 | | | | | | add.class("Size" -> medium) |
| 40 | | | | | | bgcolor=_color #00ff00 |
| 41 | | | | | | style.left=_x+"px" (50px) |
| 42 | | | | | | style.height=_y+"px" (220px) |
| 43 | | | | | | Ende der Funktion |

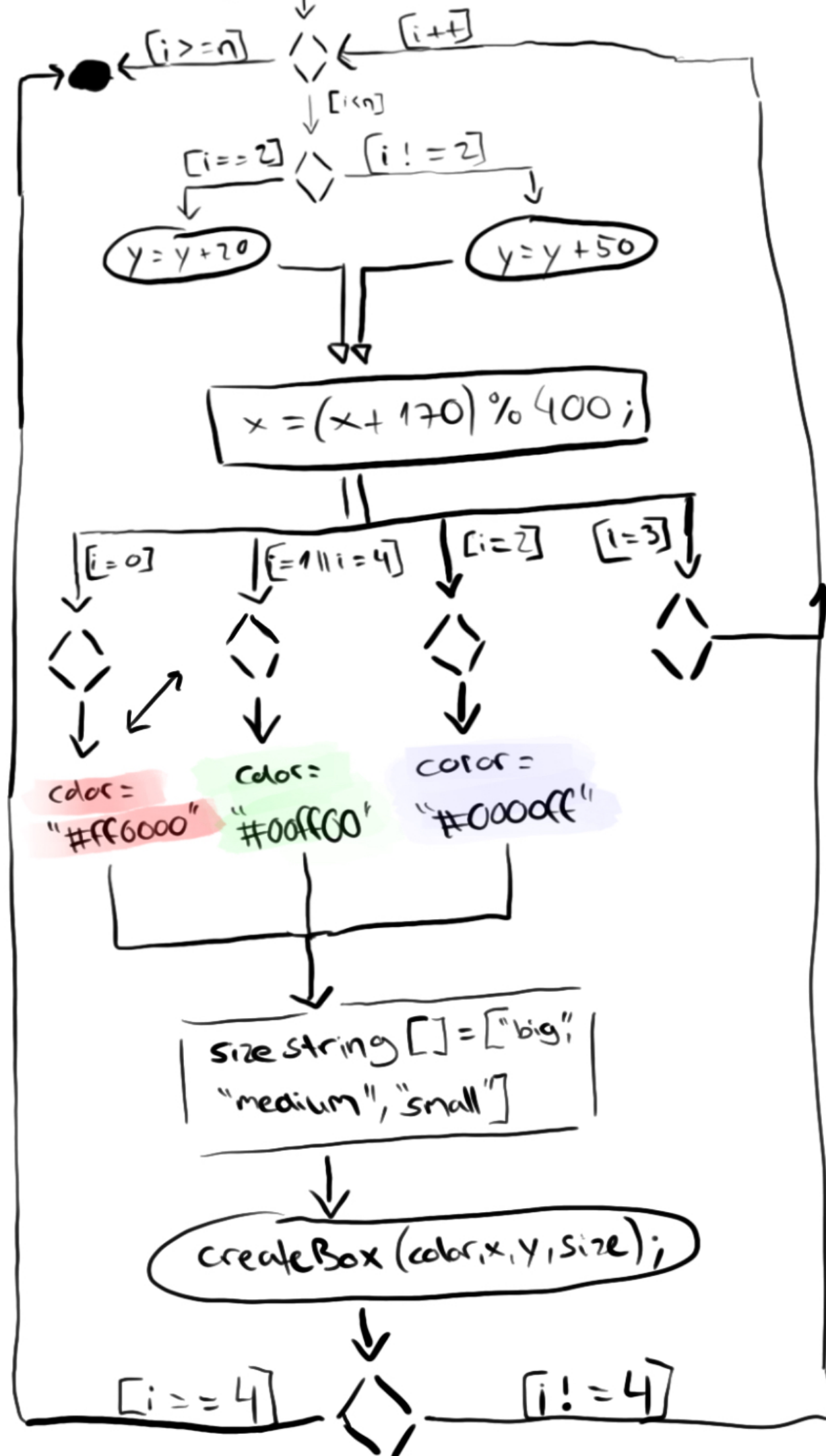
Erwartete Ausgabe



Main Boxes

```
let n: number = 5;
let color: string;
let x: number = 0;
let y: number = 0;
```

```
i: number = 0
```



Create Box

```
_color: string, _x: number, _y:  
number, _size: string
```

```
div: HTMLDivElement =  
document.createElement("div");
```

```
document.body.appendChild(div);
```

```
div.classList.add(_size);  
div.style.backgroundColor = _color;  
div.style.left = _x + "px";  
div.style.top = _y + "px";
```