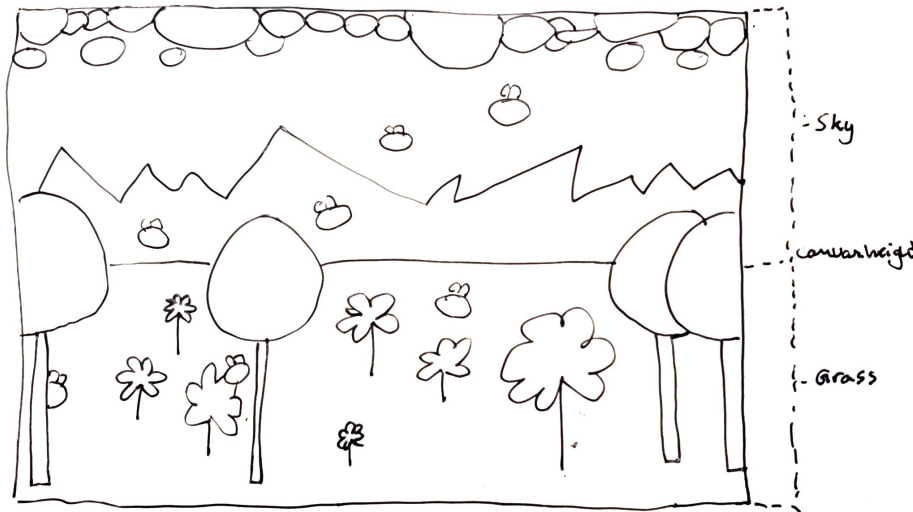


U1- Scribble

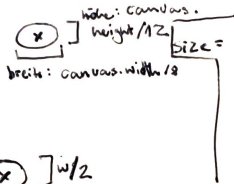




Wolken

speed:

0 bis 5



size:

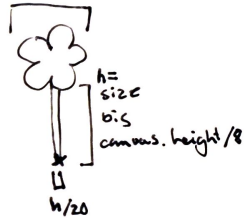


$w = 10 \text{ bis } 50$

speed = 0 bis 10

Color \rightarrow random

$\text{Canvas.width}/18$
 $\text{bis Canvas.width}/90$



Number of

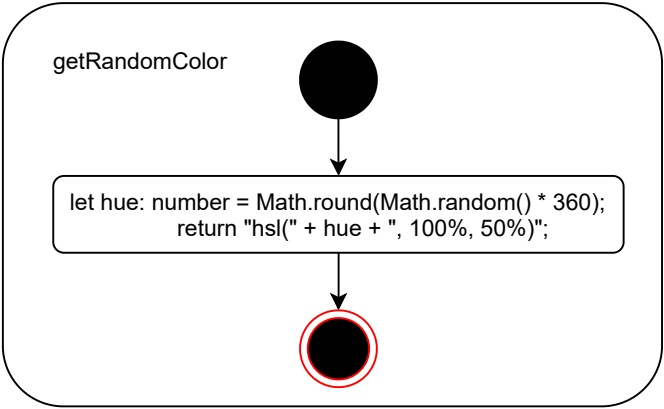
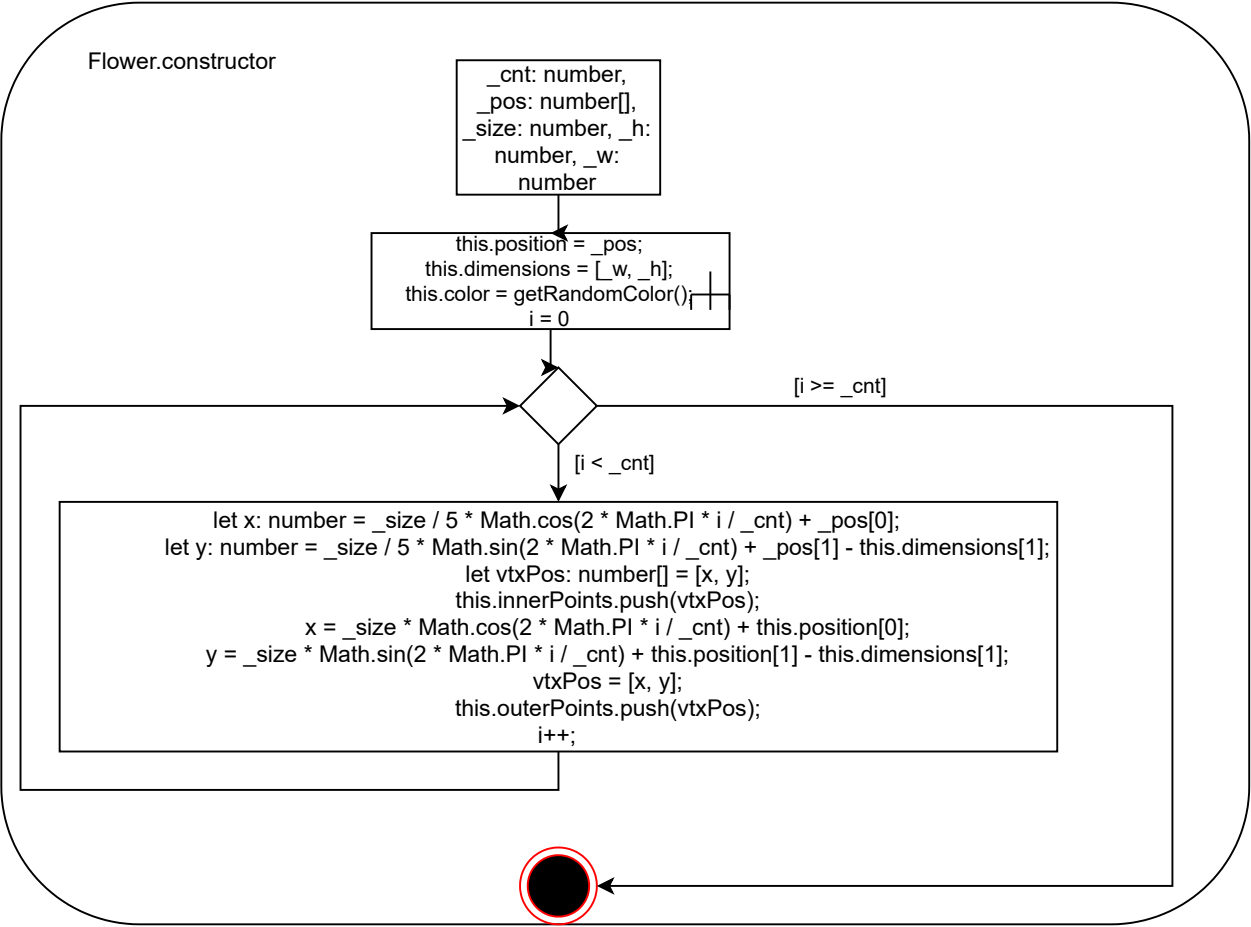
0 bis $\text{canvas.width}/(\text{spikes}/2)$



$\text{canvas.width}/2$
 $\text{bis } 0$

\blacktriangledown x auf Zeichnungen
 $=$ Ursprung des Objektes

Flower
innerPoints: number[][] = []; outerPoints: number[][] = []; position: number[]; dimensions: number[]; color: string;
constructor: void draw: void move: void



Flower.draw

```
context.fillStyle = "green";  
context.fillRect(this.position[0] - this.dimensions[0] / 2, this.position[1], this.dimensions[0], -this.dimensions[1]);  
context.beginPath();  
context.moveTo(this.innerPoints[0][0], this.innerPoints[0][1]);  
i = 0;
```

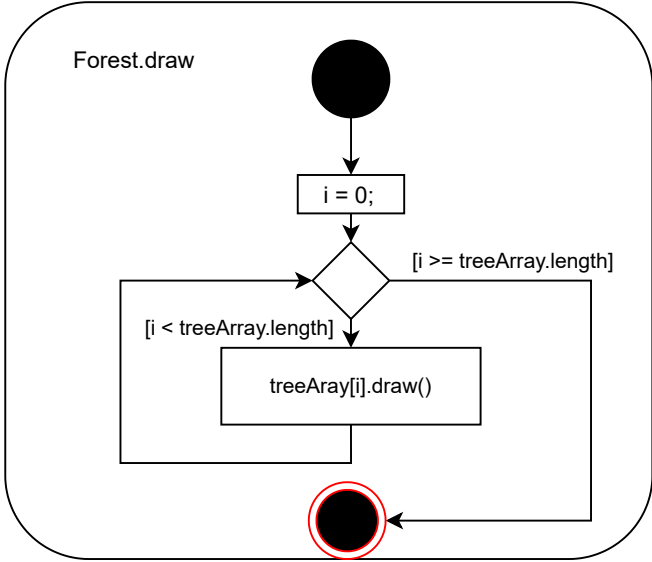
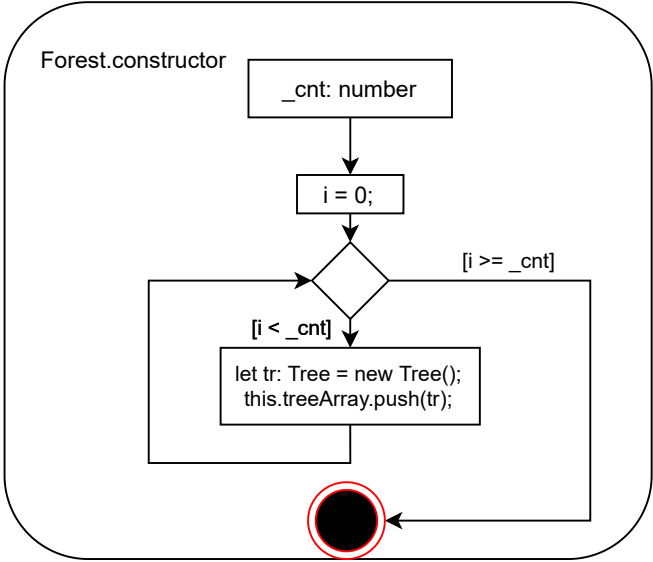
[i >= innerPoints.length]

[i < innerPoints.length]

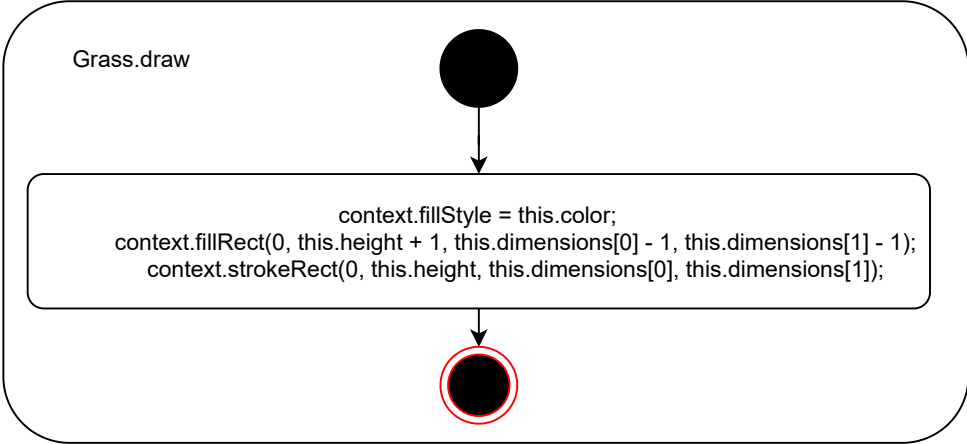
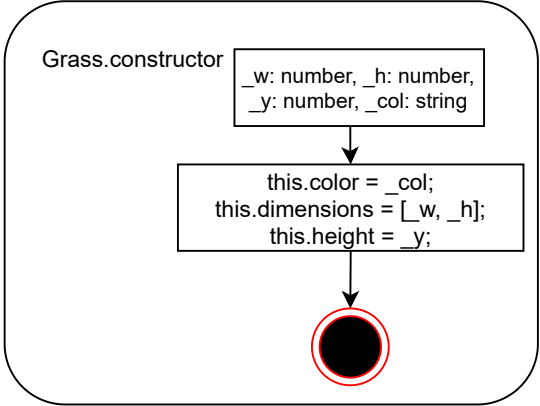
```
context.bezierCurveTo(this.outerPoints[i][0], this.outerPoints[i][1],  
this.outerPoints[(i + 1) % this.innerPoints.length][0],  
this.outerPoints[(i + 1) % this.innerPoints.length][1],  
this.innerPoints[(i + 1) % this.innerPoints.length][0],  
this.innerPoints[(i + 1) % this.innerPoints.length][1]);  
i++
```

```
context.closePath();  
context.fillStyle = this.color;  
context.fill();  
context.strokeStyle = "black";  
context.stroke();
```

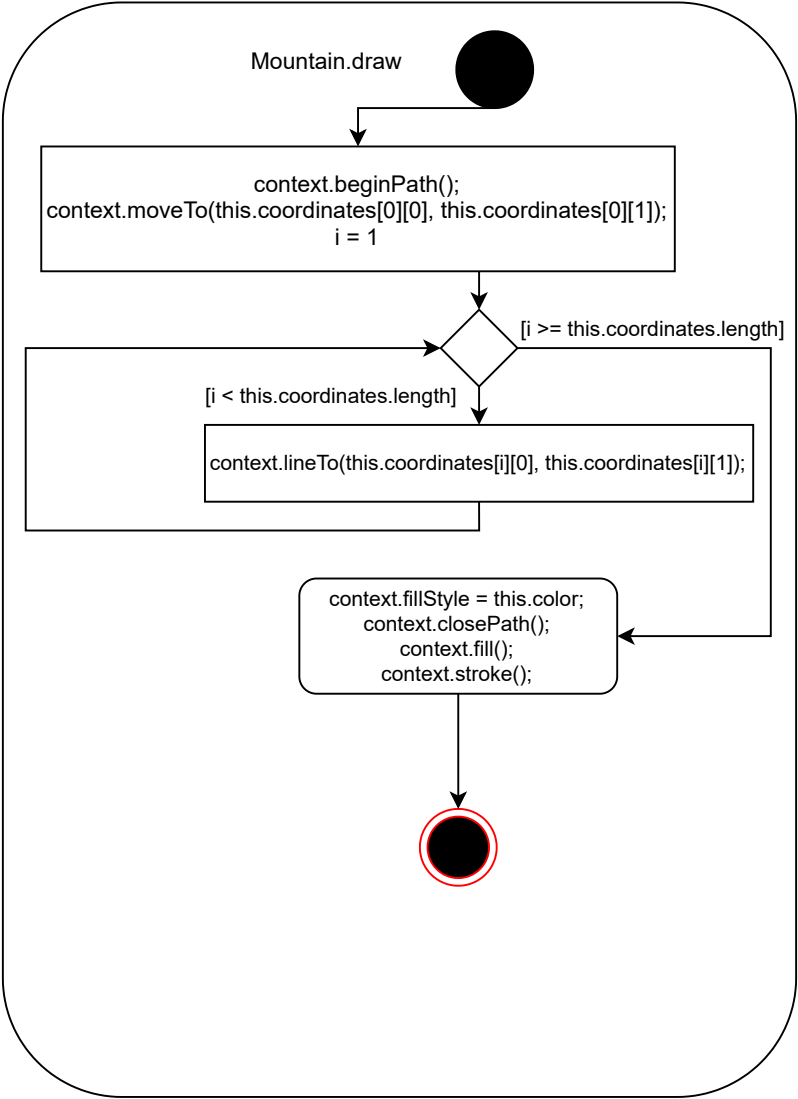
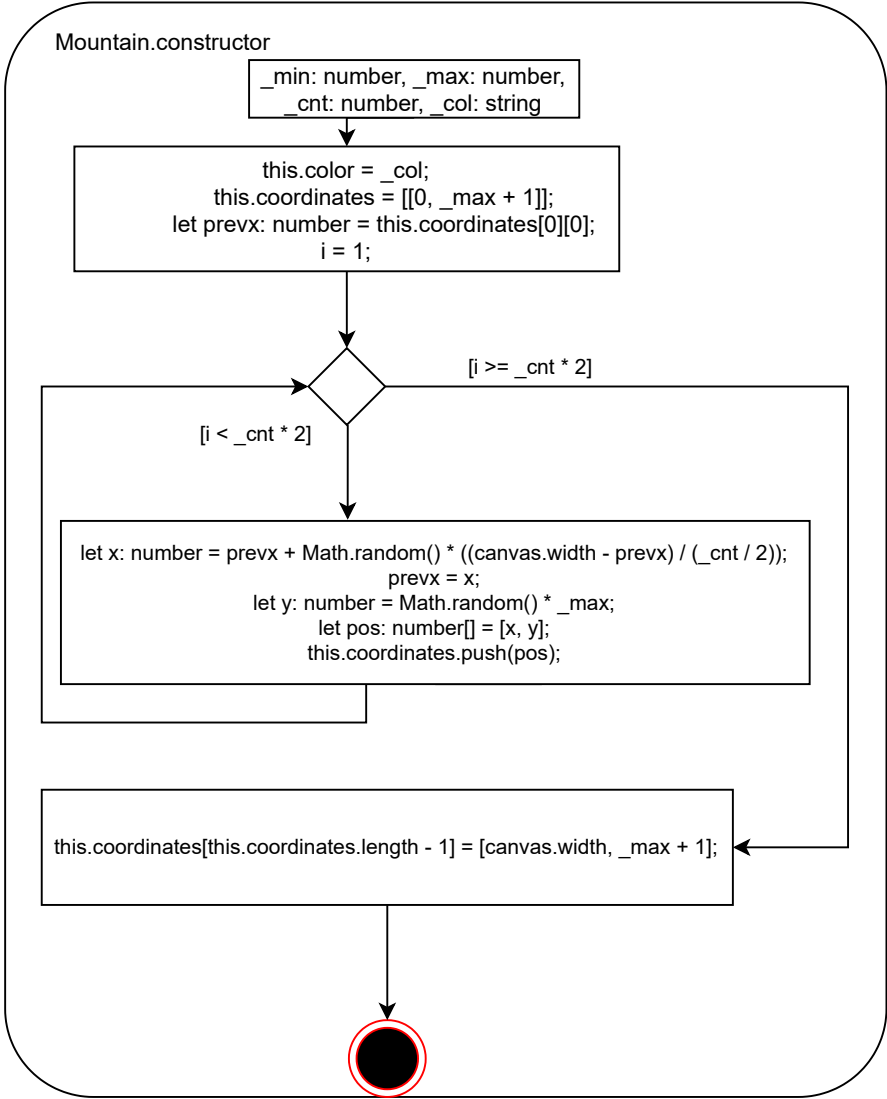
Forest
treeArray: Tree[] = [];
constructor: void draw: void



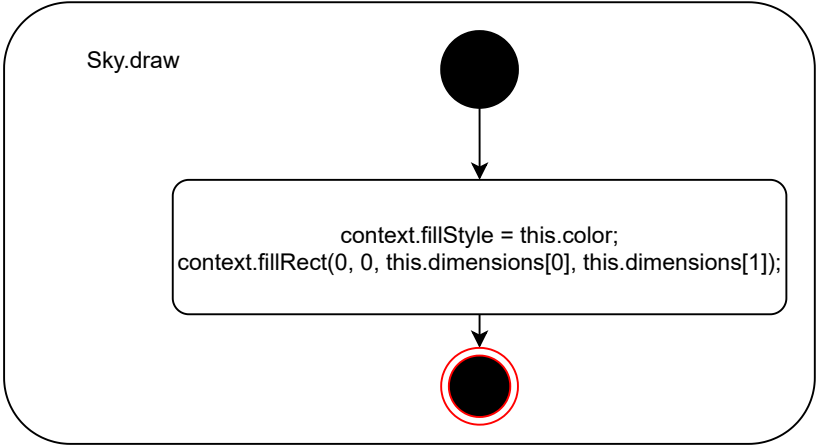
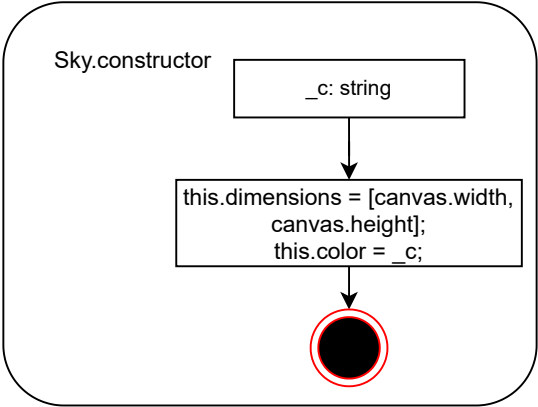
Grass
color: string; dimensions: number[]; height: number;
constructor: void draw: void



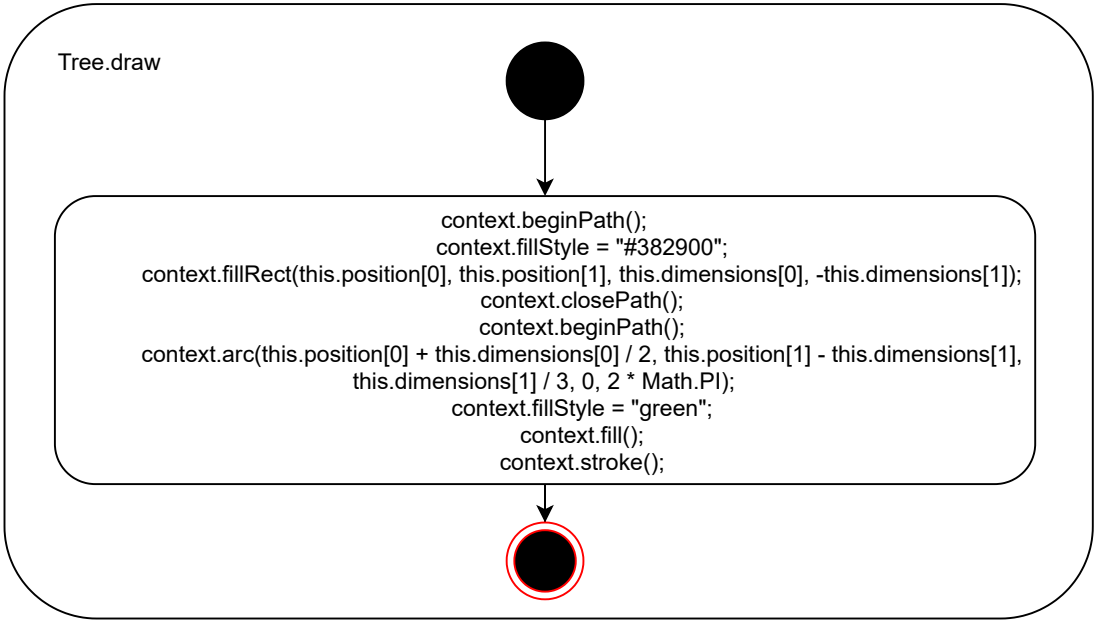
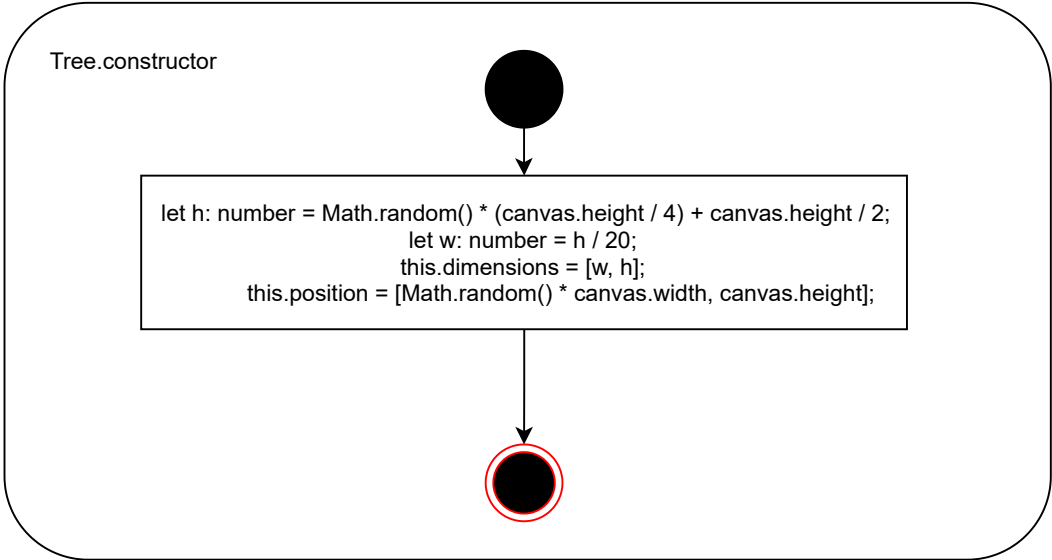
Mountain
<pre>coordinates: number[][]; color: string;</pre>
<pre>constructor: void draw: void</pre>



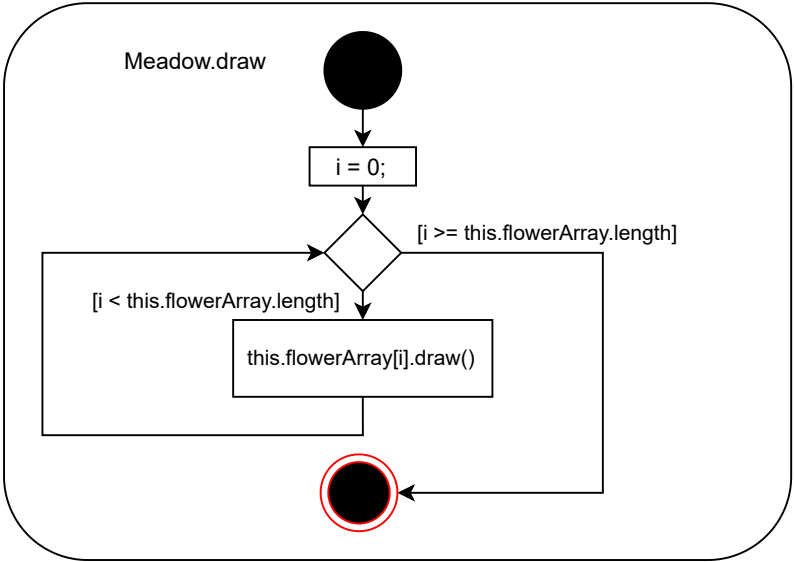
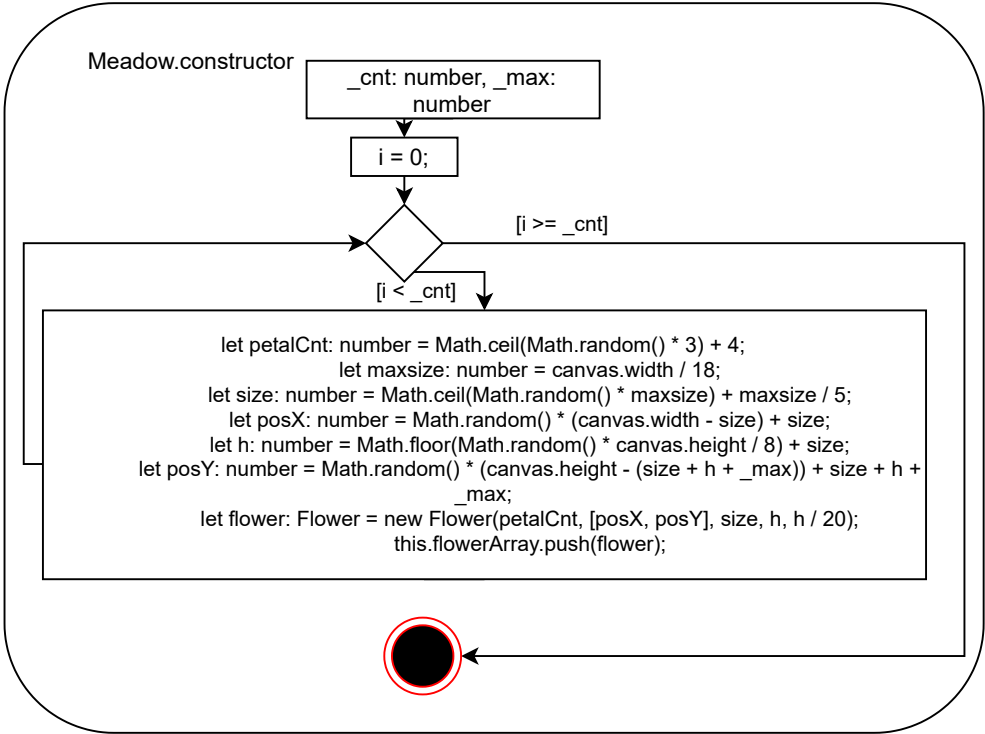
Sky
dimensions: number[]; color: string;
constructor: void draw: void



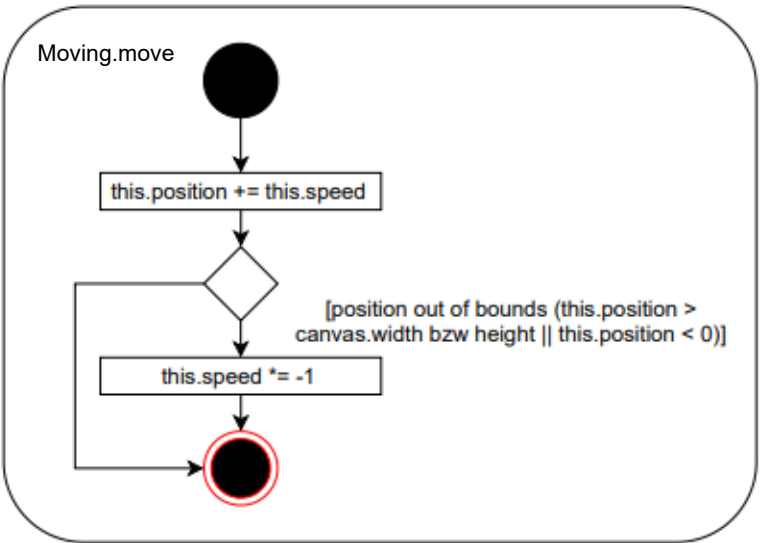
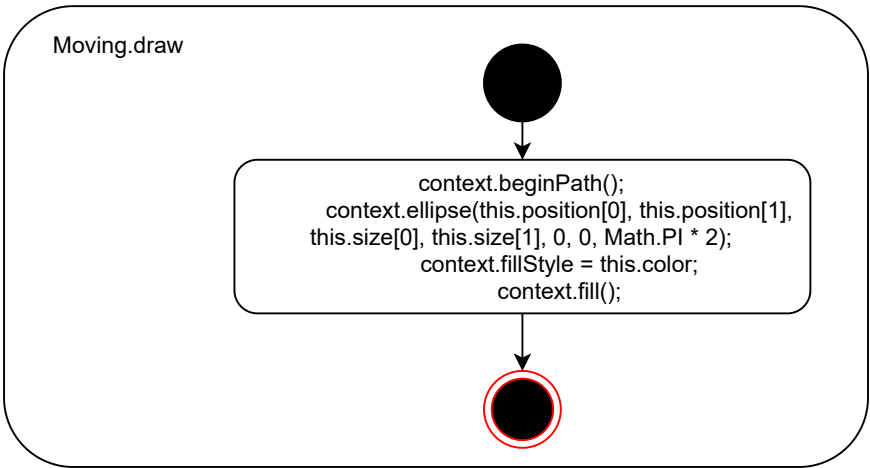
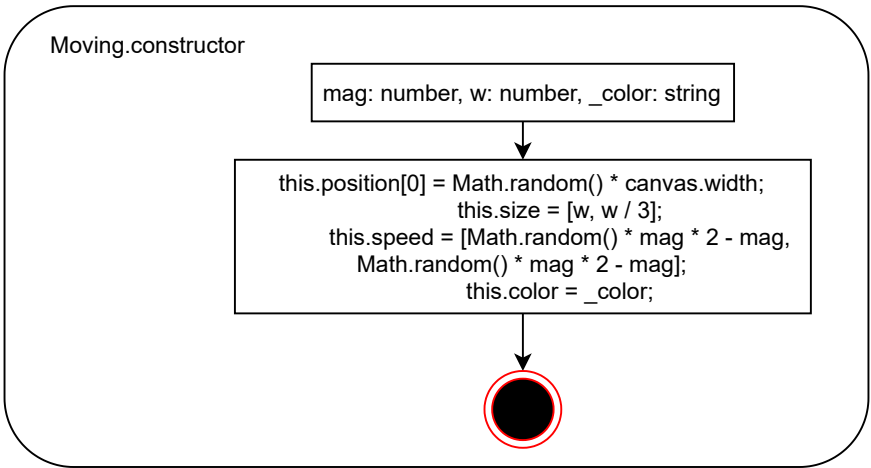
Tree
dimensions: number[]; position: number[];
constructor: void draw: void



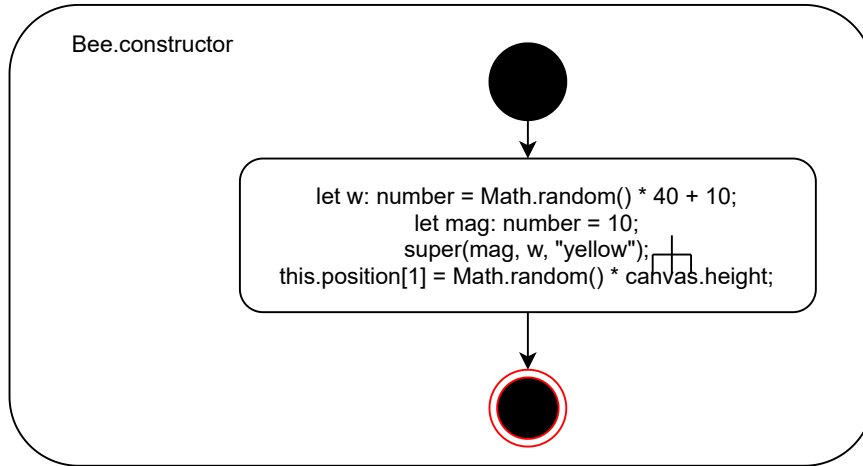
Meadow
flowerArray: Flower[] = [];
constructor: void draw: void



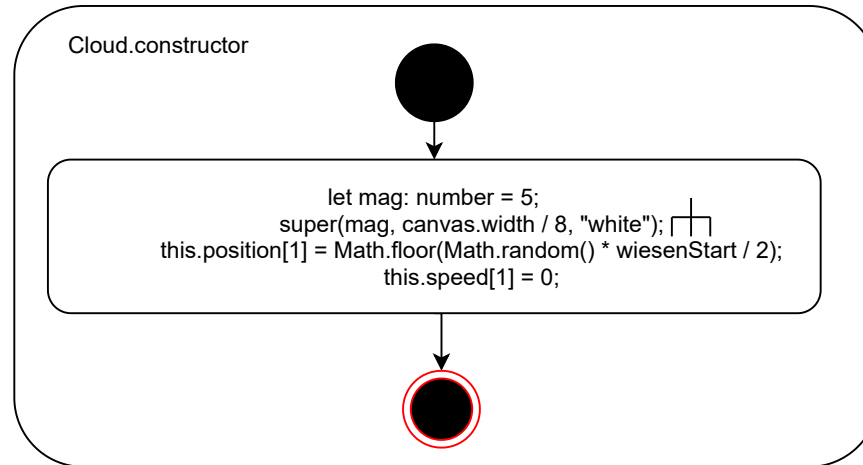
Moving
position: number[] = []; size: number[]; speed: number[]; color: string;
constructor: void draw: void move: void



Bee extends Moving
position: number[] = []; size: number[]; speed: number[]; color: string;
constructor: void draw: void move: void



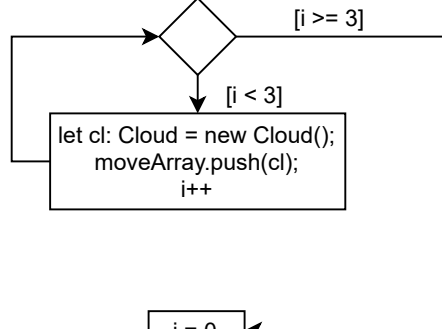
Cloud extends Moving
position: number[] = []; size: number[]; speed: number[]; color: string;
constructor: void draw: void move: void



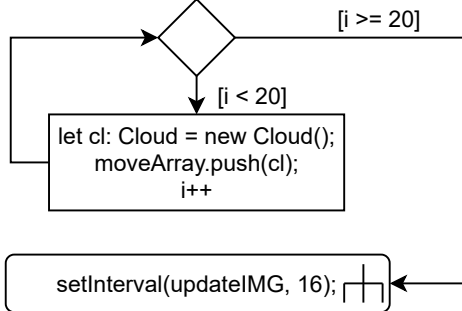


```
export let canvas: HTMLCanvasElement = document.querySelector("canvas");  
export let context: CanvasRenderingContext2D = canvas.getContext("2d");  
export let wiesenStart: number = canvas.height / 2;  
let sky: Sky = new Sky("lightblue");  
let mountains: Mountain = new Mountain(0, wiesenStart, 5, "lightgrey");  
let grass: Grass = new Grass(canvas.width, canvas.height / 2, wiesenStart,  
    "darkgreen");  
let meadow: Meadow = new Meadow(50, wiesenStart);  
let forest: Forest = new Forest(3);  
let moveArray: Moving[] = [];
```

i = 0



i = 0



updateIMG



```
sky.draw(); r1  
mountains.draw(); r1  
grass.draw(); r1  
meadow.draw(); r1
```

i = 0

