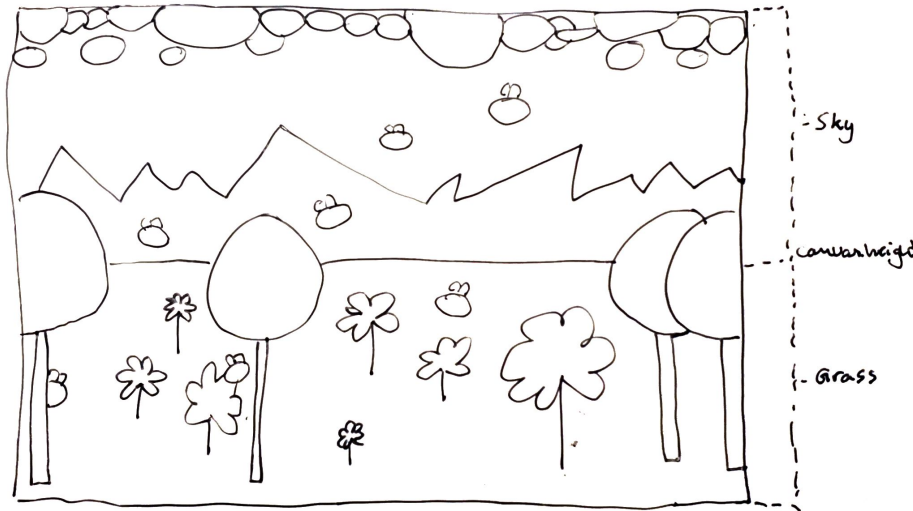


# U1- Scribble

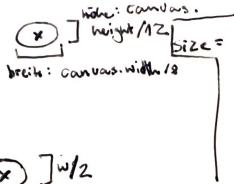




Wolken

speed:

0 bis 5



size:

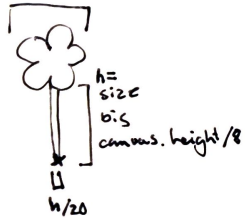


$w = 10 \text{ bis } 50$

speed = 0 bis 10

Color  $\rightarrow$  random

$\text{Canvas.width}/18$   
 $\text{bis Canvas.width}/40$



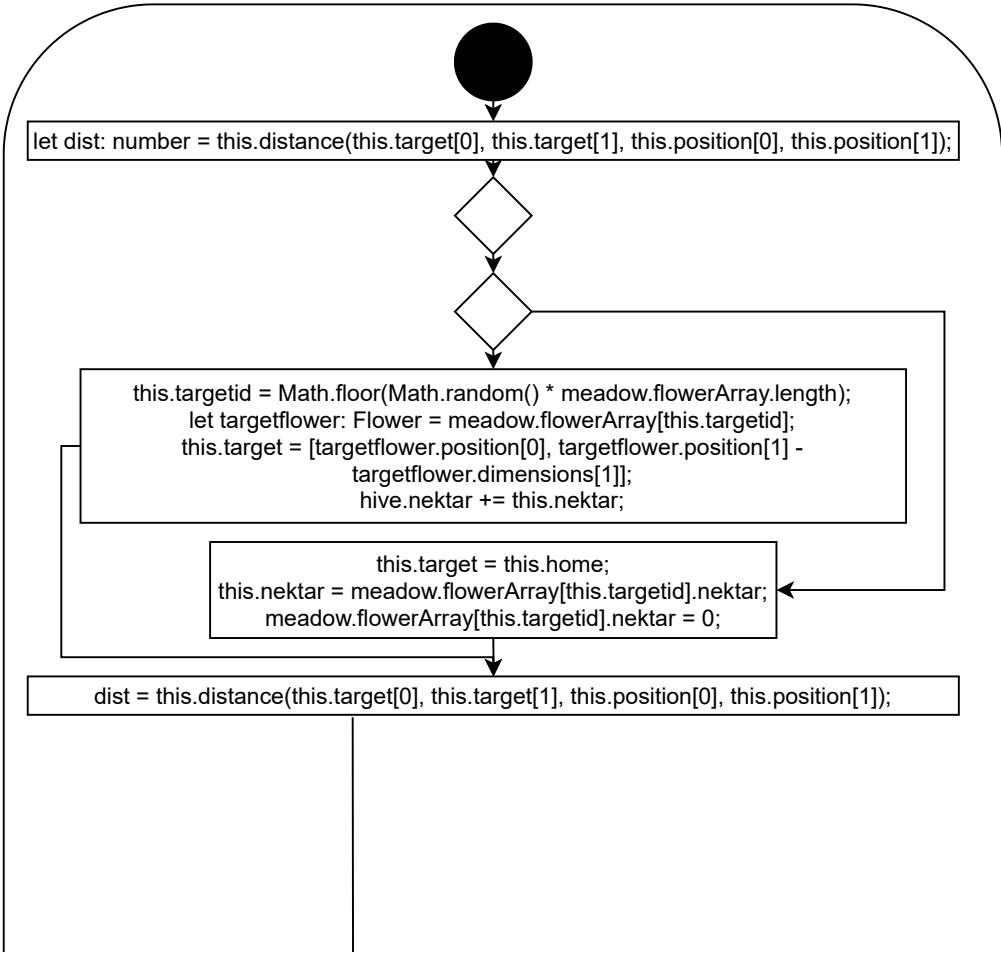
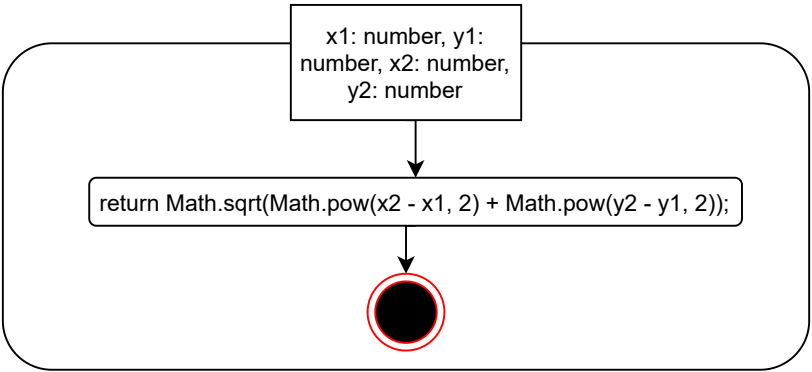
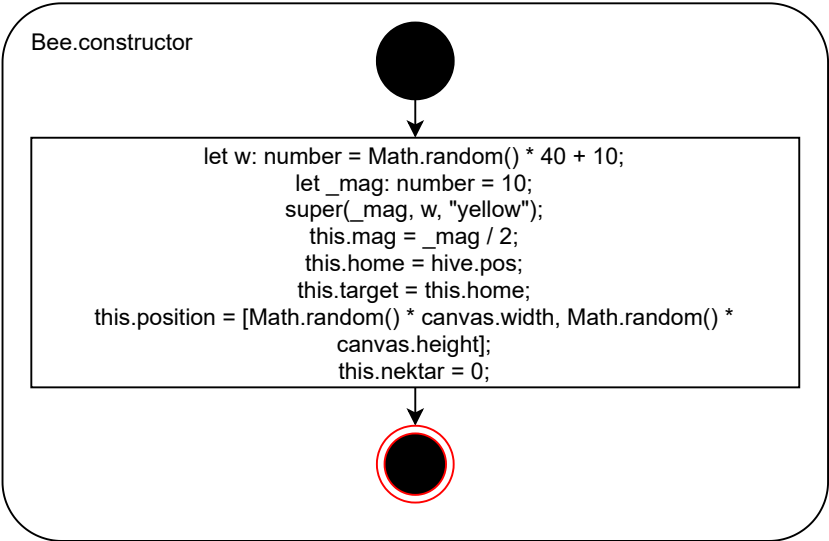
Number of

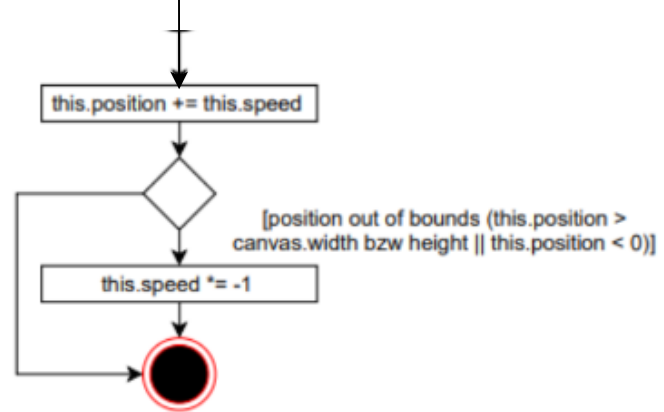
0 bis  $\text{canvas.width}/(\text{spikes}/2)$



$\blacktriangledown$  x auf Zeichnungen  
 $=$  Ursprung des Objektes

Bee
position: number[] = []; size: number[]; speed: number[]; color: string; home: number[]; target: number[]; mag: number; targetid: number; nektar: number;
constructor: void draw: void move: void distance: number





Cloud extends Moving

position: number[] = [];  
size: number[];  
speed: number[];  
color: string;

constructor: void  
draw: void  
move: void

Cloud.constructor

```

let mag: number = 5;
super(mag, canvas.width / 8, "white");
this.position[1] = Math.floor(Math.random() * wiesenStart / 2);
this.speed[1] = 0;
  
```

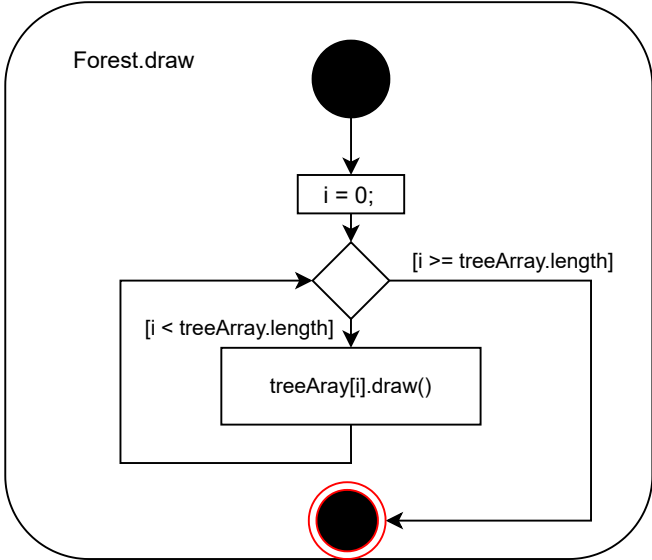
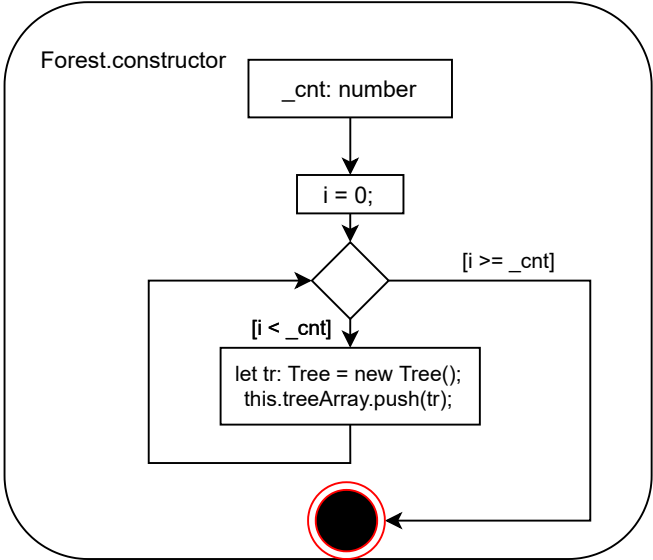
```

graph TD
    Start(( )) --> Init[let mag: number = 5; super(mag, canvas.width / 8, "white"); this.position[1] = Math.floor(Math.random() * wiesenStart / 2); this.speed[1] = 0;]
    Init --> End((( )))
  
```

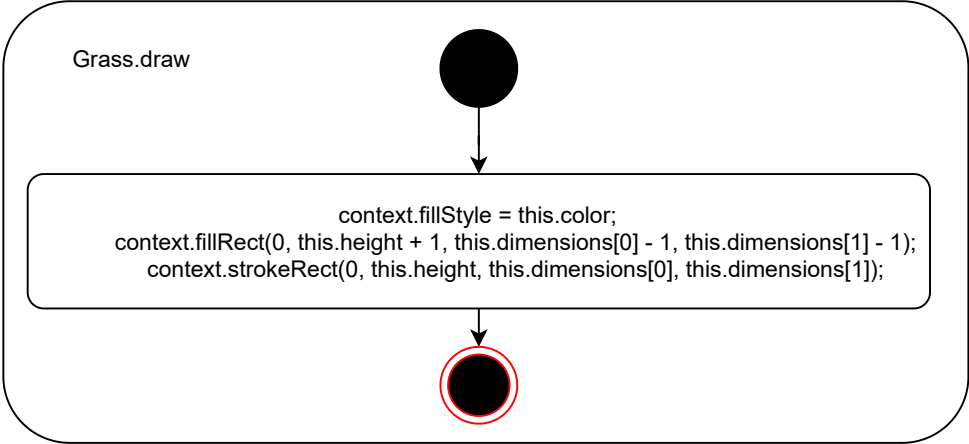
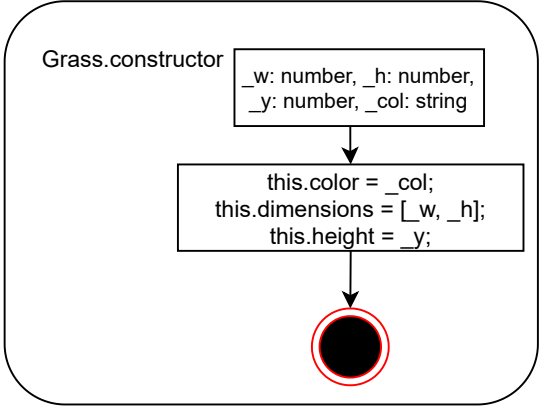
Flowchart logic for Cloud.constructor:

- Start node leads to a process box containing the initialization code.
- The process box leads to an end node (a circle with a red border).

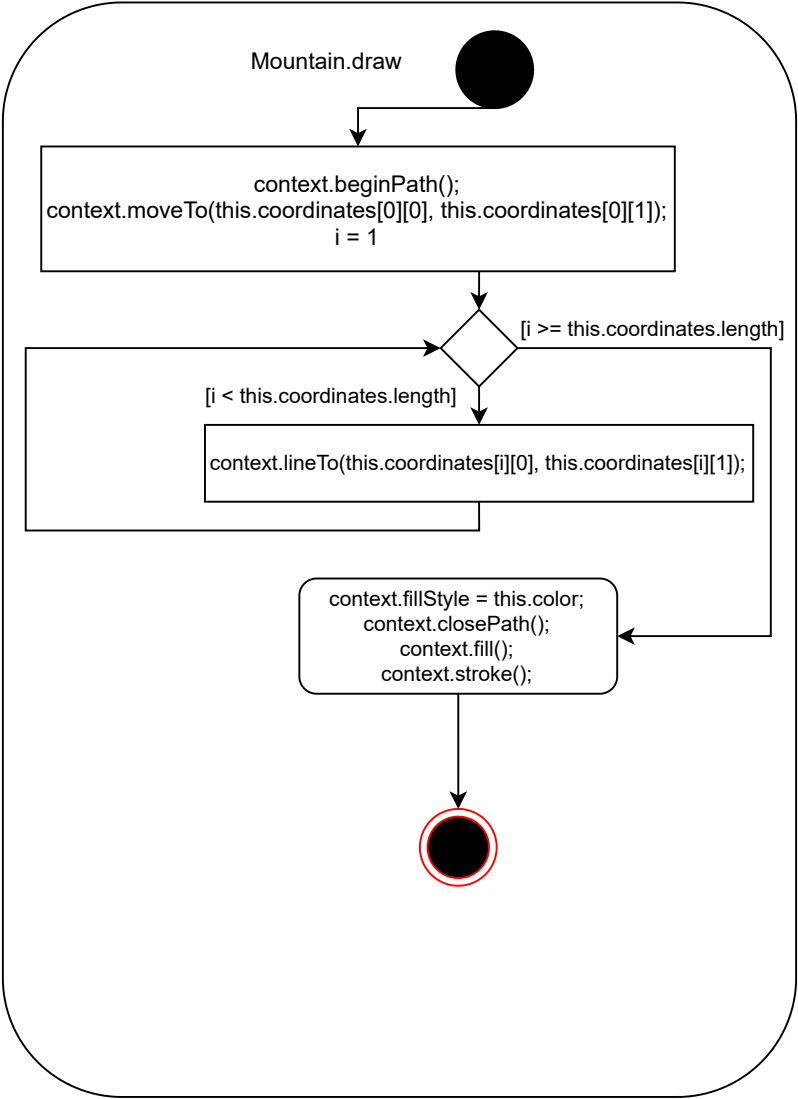
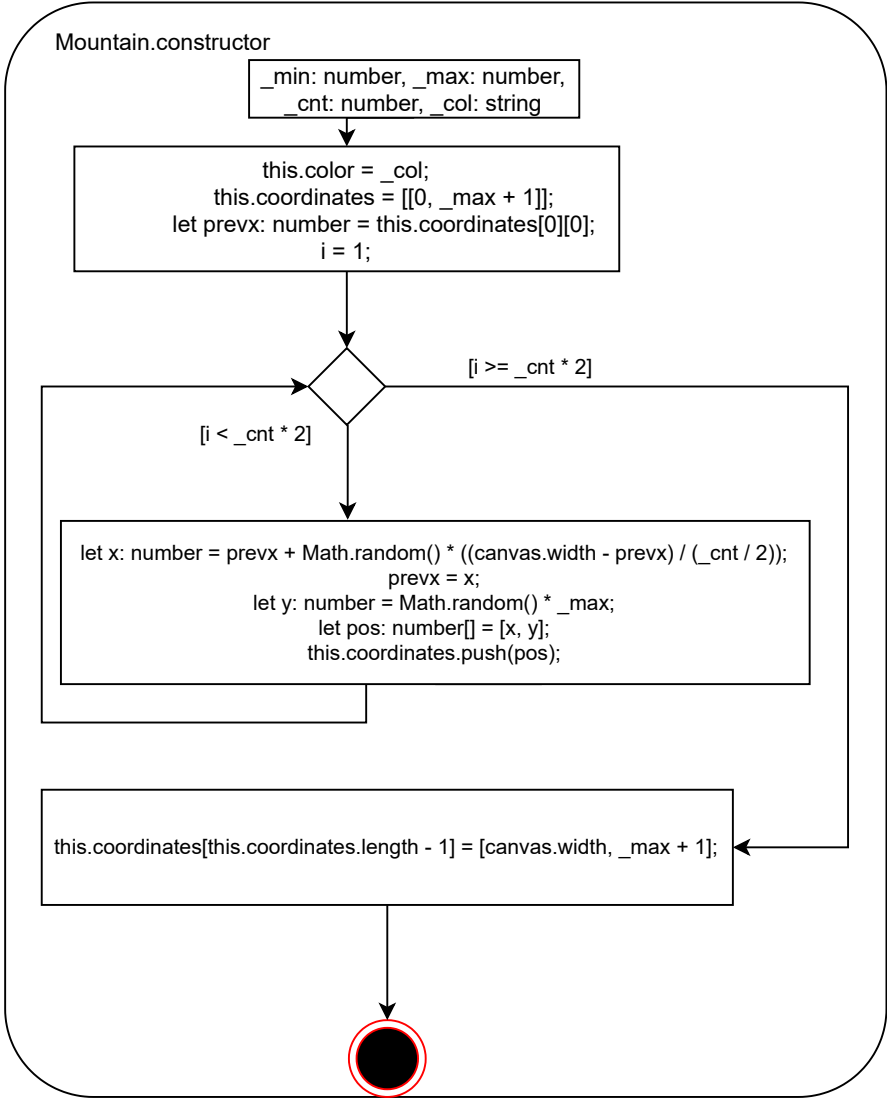
Forest
treeArray: Tree[] = [];
constructor: void draw: void



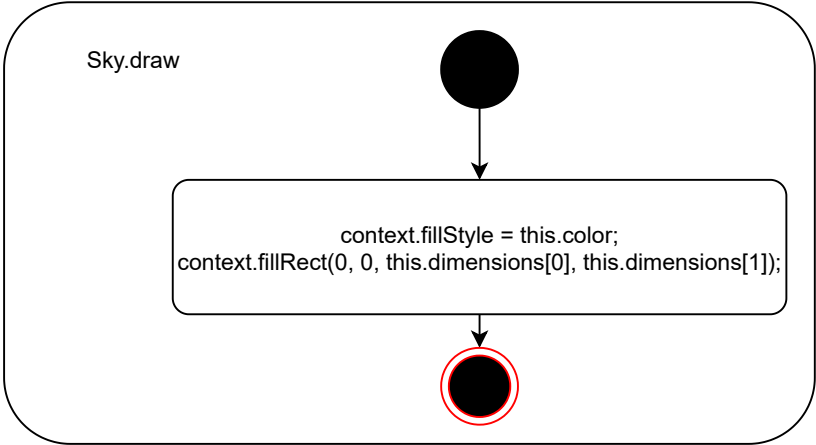
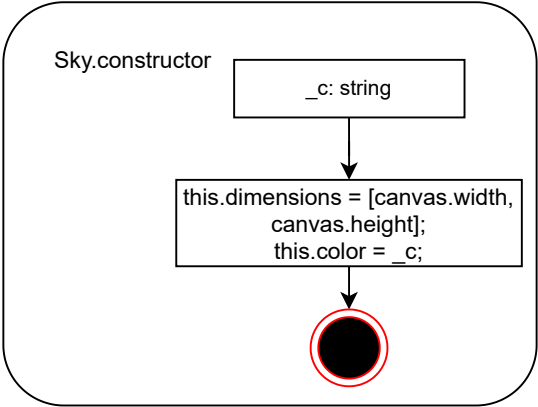
Grass
color: string; dimensions: number[]; height: number;
constructor: void draw: void



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

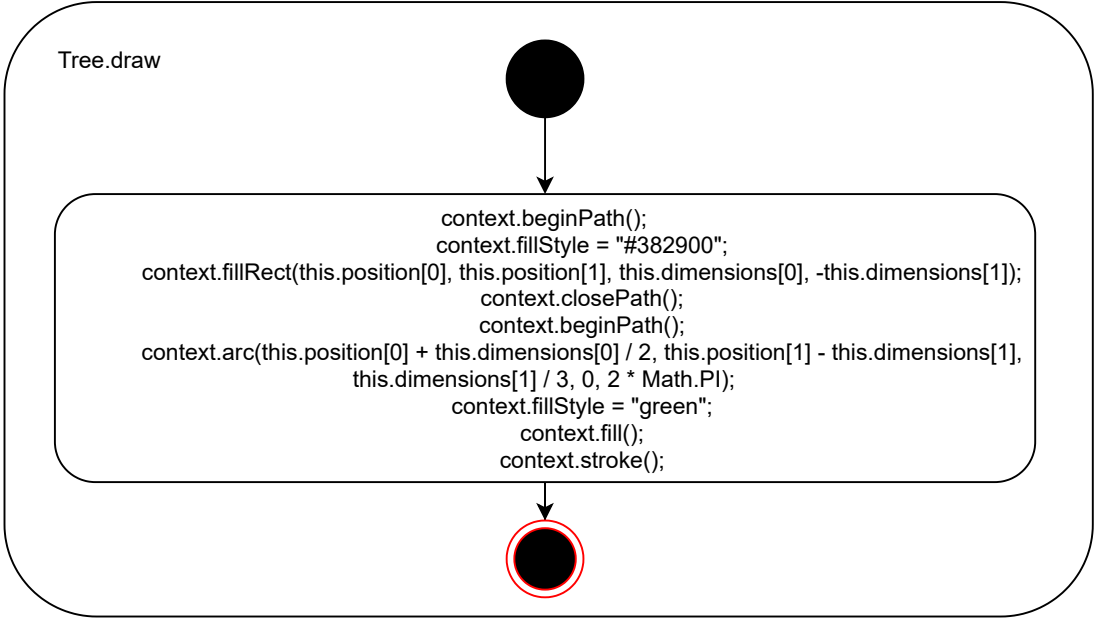
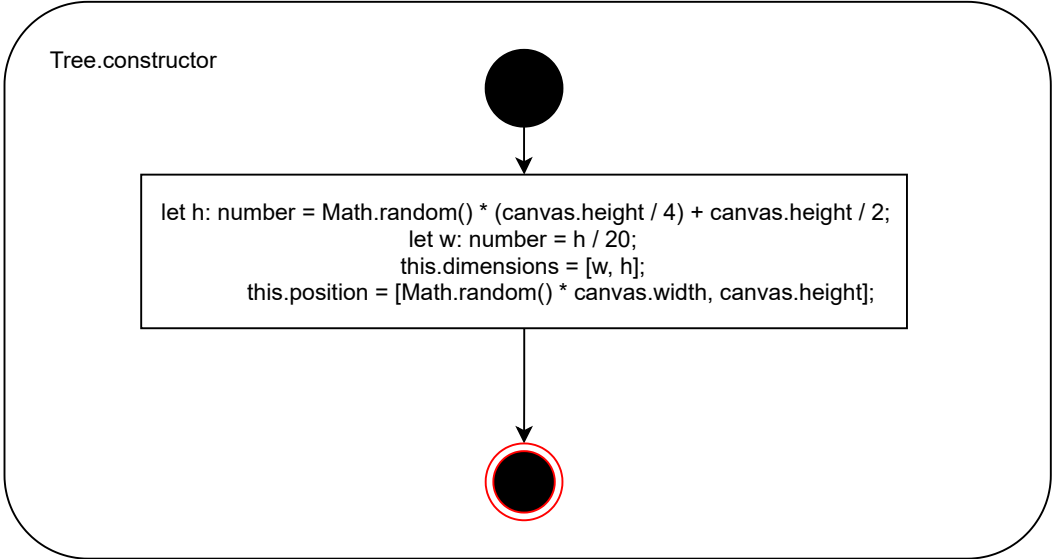


Sky
dimensions: number[]; color: string;
constructor: void draw: void

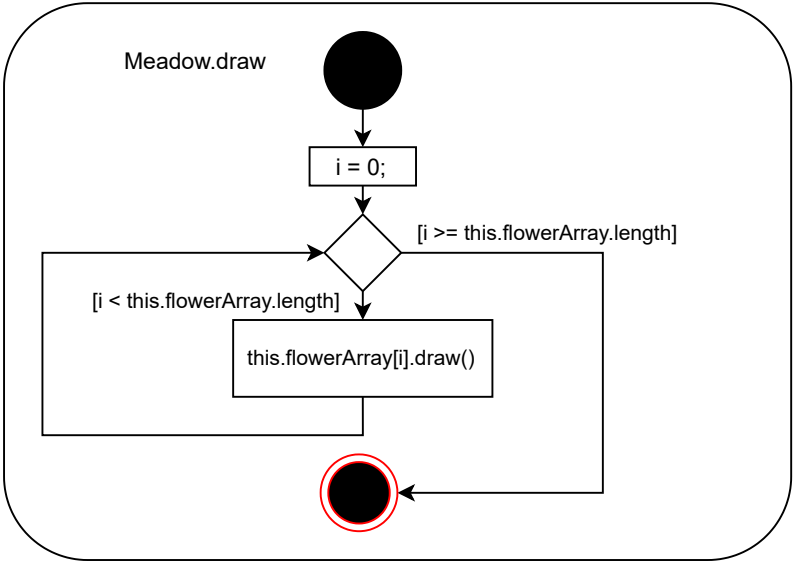
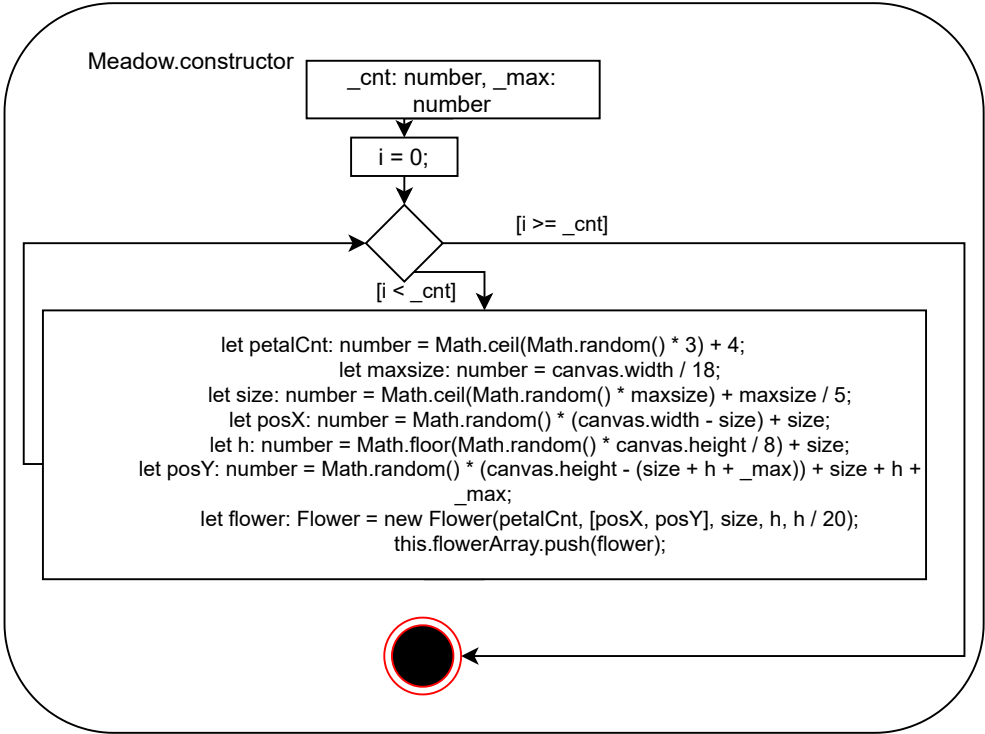




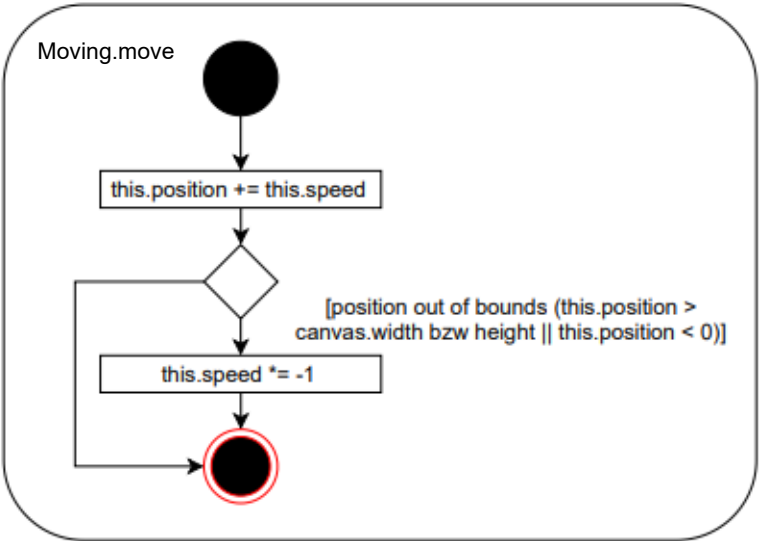
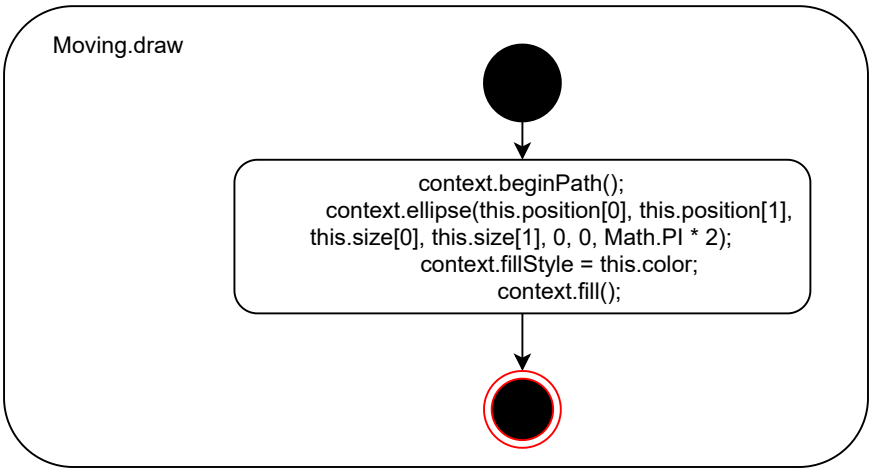
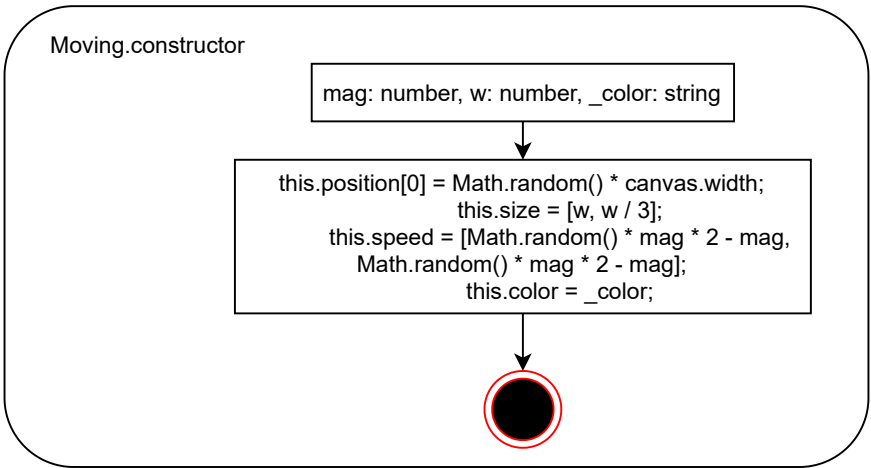
Tree
dimensions: number[]; position: number[];
constructor: void draw: void



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



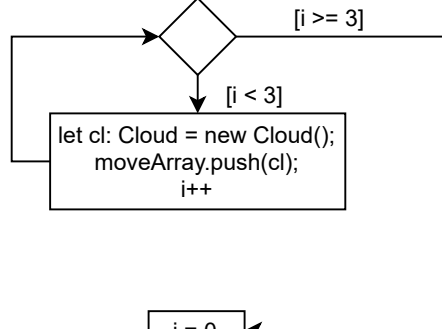
Moving
position: number[] = []; size: number[]; speed: number[]; color: string;
constructor: void draw: void move: void



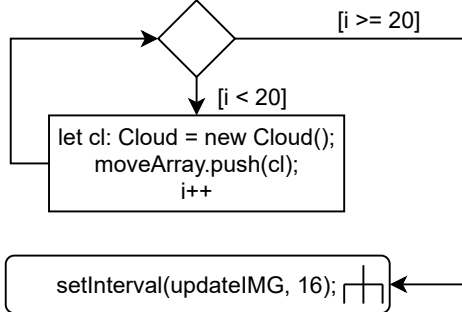


```
export let canvas: HTMLCanvasElement = document.querySelector("canvas");  
export let context: CanvasRenderingContext2D = canvas.getContext("2d");  
export let wiesenStart: number = canvas.height / 2;  
let sky: Sky = new Sky("lightblue");  
let mountains: Mountain = new Mountain(0, wiesenStart, 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

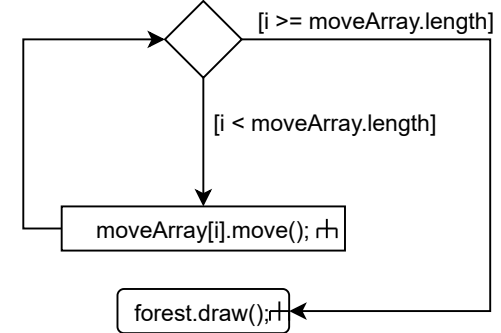


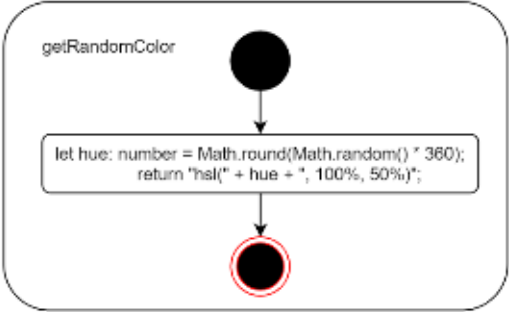
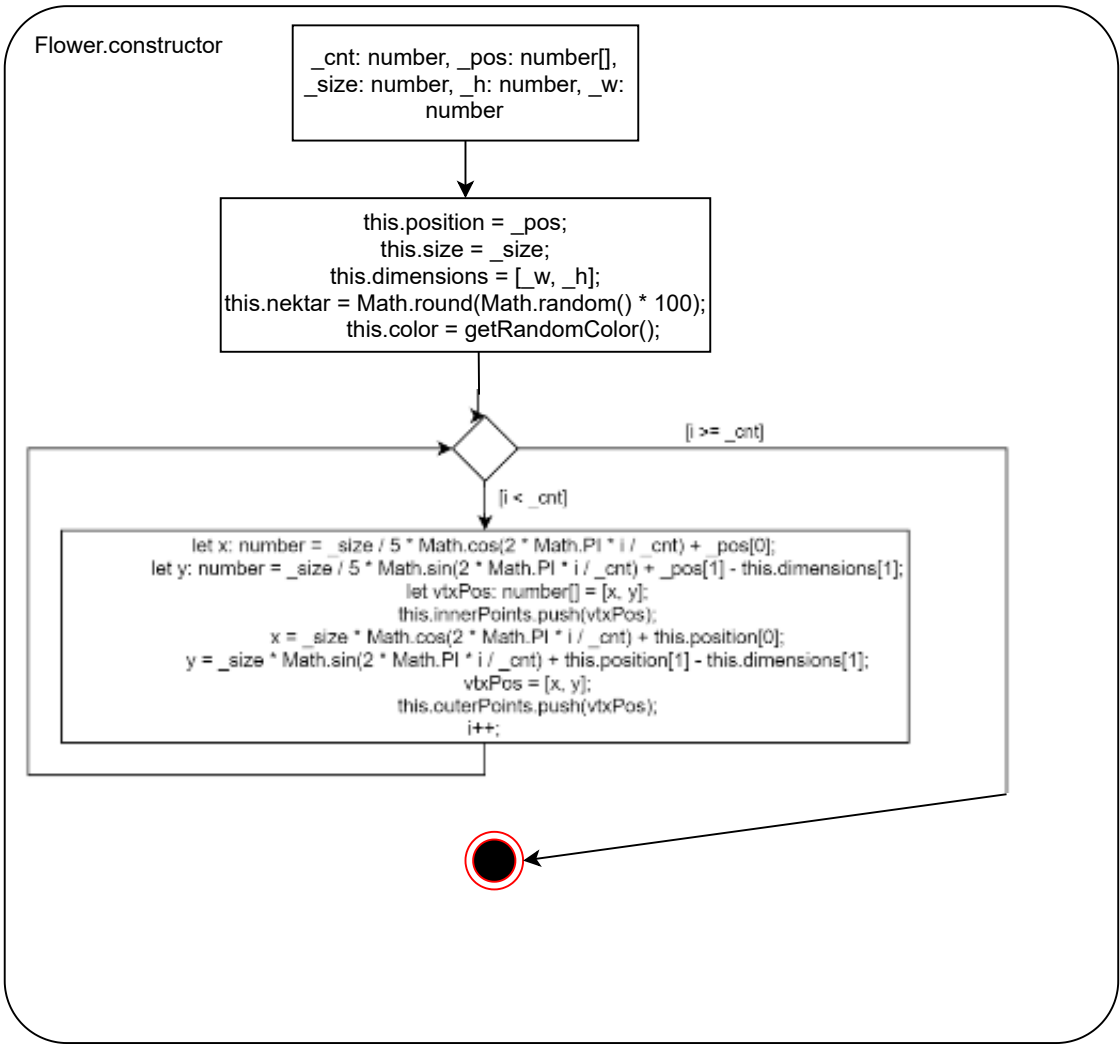
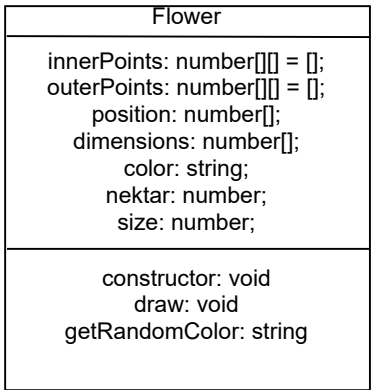
updateIMG



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

i = 0





Flower.draw

