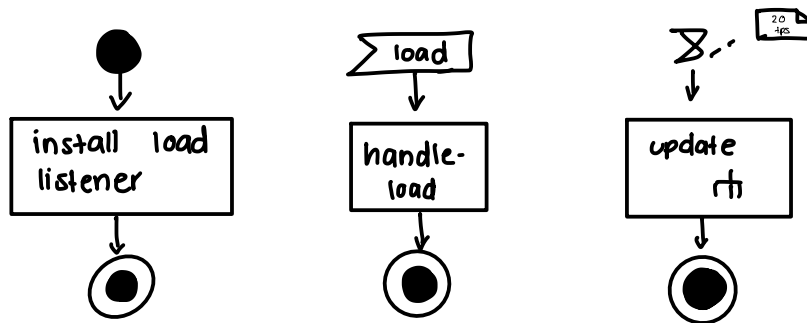


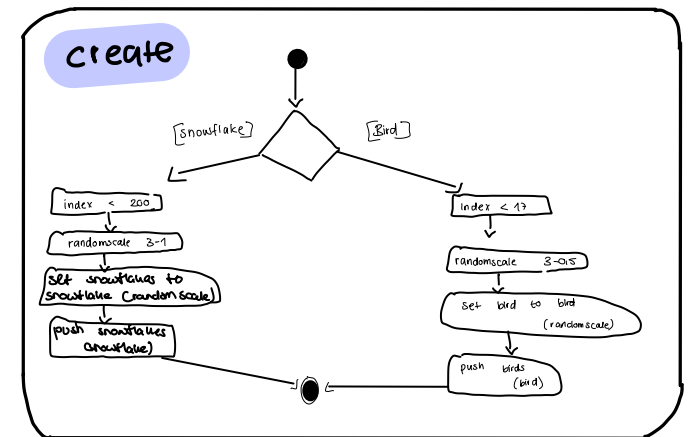
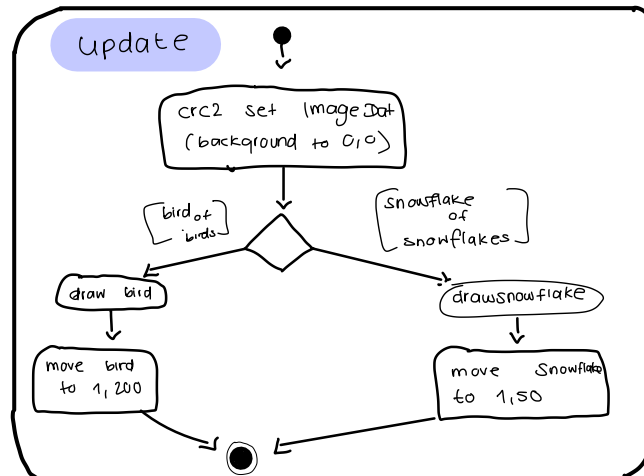
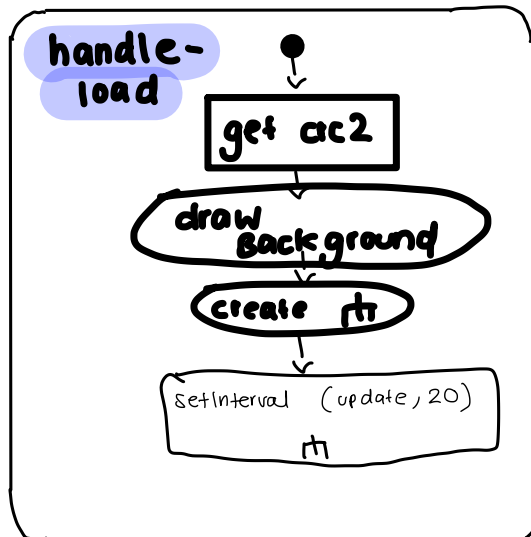
Aktivitätsdiagramm

main



crc 2
golden

x: number
y: number
background: ImageData
snowflakes: Snowflake[]
birds: Bird[]



- position: Vector

drawSun

r₁: number = 40
r₂: number = 130
gradient: RadialGradient

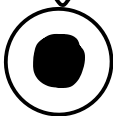
set ColorStop at 1.0
white - yellow → bright yellow

save transform

translate to -position


draw arc


restore transform





drawBackground


draw background with gradient

draw sun (position) 



draw cloud (position, size) 

draw mountains x2 with
diff, parameter: color,
Vector: horizon 

draw Trees (position) 

draw snowman (position) 

draw house (position)

drawbird (position) 
drawbird (position) 

background = arc2.ImageData



-position: Vector
size: Vector

draw Cloud

n particles: number = 15
r particles: number = 50
particle: path2D
gradient: Radio Gradient
a=0,8 → a=0,2

Save Transform

translate to .position

restore transform

x: number = random - size.x
y: number = random - size.y

Save Transform

translate to x,y

draw particle

restore transform

-position: Vector
-min: number
-max: number
-colorLow: string
-colorHigh: string

draw Mountains

StepMin = number = 30;
StepMax = number = 20;
x: number = 0

Save Transform
translate to -position
move to 0,0
line to 0, -max

[x = canvas width]

x = random betw.
StepMin and StepMax

y: number = -min + random.
(-max, -min)

line to x,y

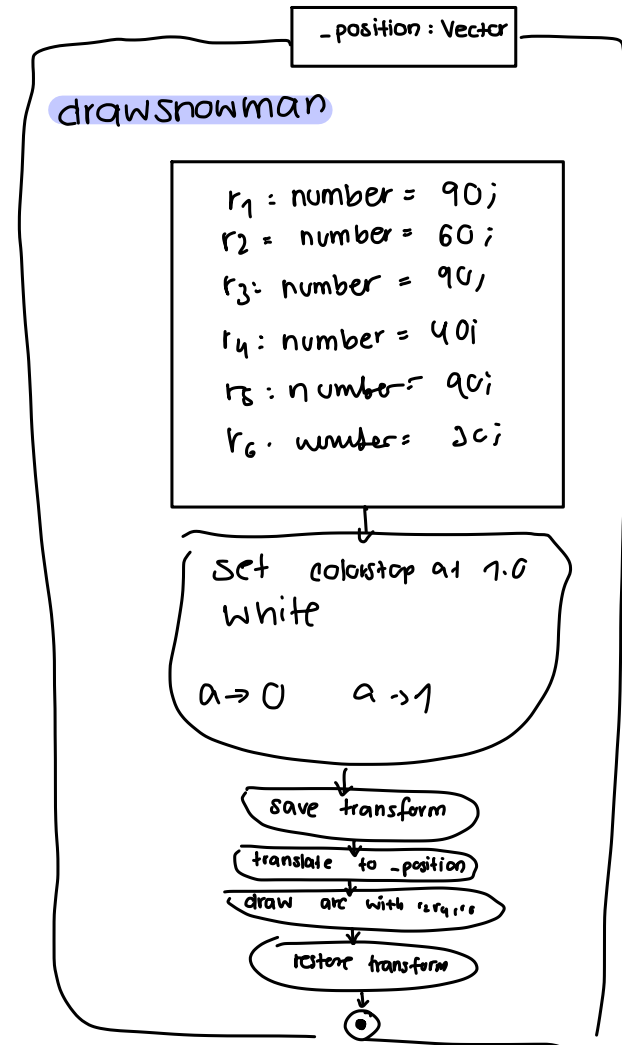
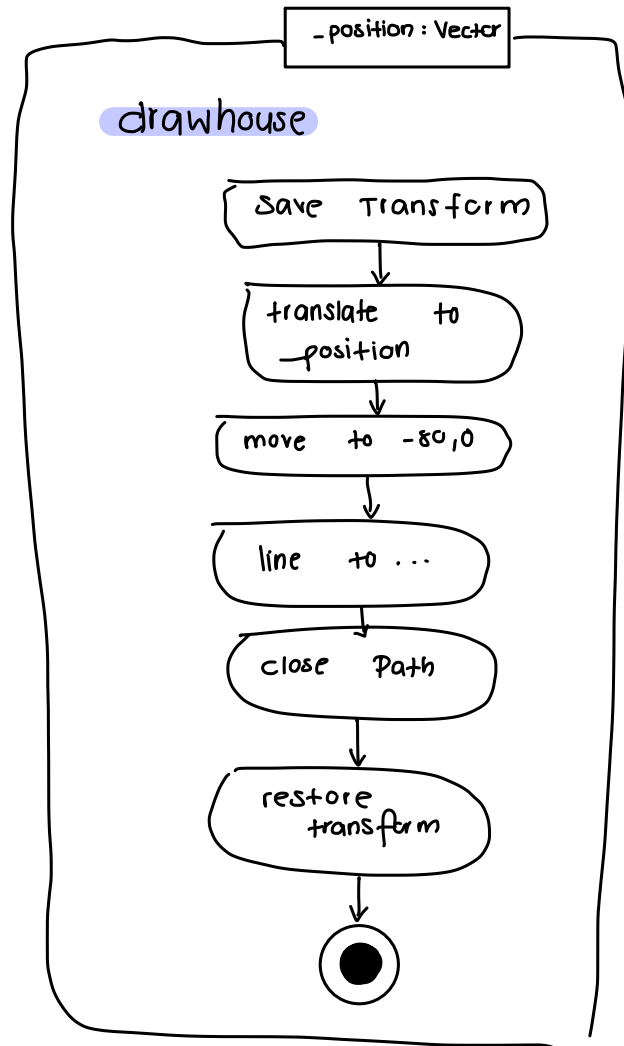
line to x,0

close Path

Create gradient
with given color

draw Path

restore transform



- position: Vector

drawbird

let index: number = 0; index < 9, index++

let maxWidth: number = 800;
let minWidth: number = 100;
let minHeight: number = 515;
let maxHeight: number = 530;
let positionX: number = Math.floor(Math.random() * (maxWidth - minWidth) + minWidth);
let positionY: number = Math.floor(Math.random() * (maxHeight - minHeight) + minHeight);

let radius2: number = 12;

draw bottom part of
bird

ctx.fillStyle = randomColor();

let radius: number = 10;

draw head of bird

ctx.fillStyle = randomColor();

let radius3: number = 1;

draw eye on the head

draw beak of bird

draw leg

draw foot

randomcolor

let letters: string = "0123456789";
let color: string = "#";

let i: number = 0; i < 6; i++

color += letters[Math.floor(Math.random() * 10)];

- position: Vector

drawtrees

restore
[index < 7]

random x: number = random 750-200
random y: number = random 500-420
random scale: number = random 8-1

Save Transform

translate to random x,
random y

scale to random
scale, randomscale

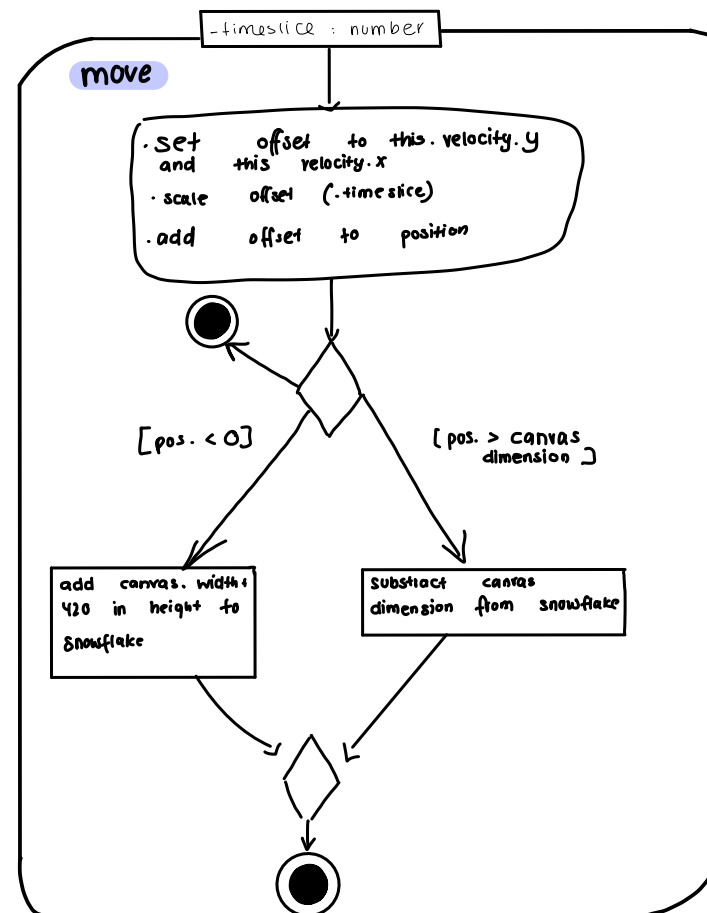
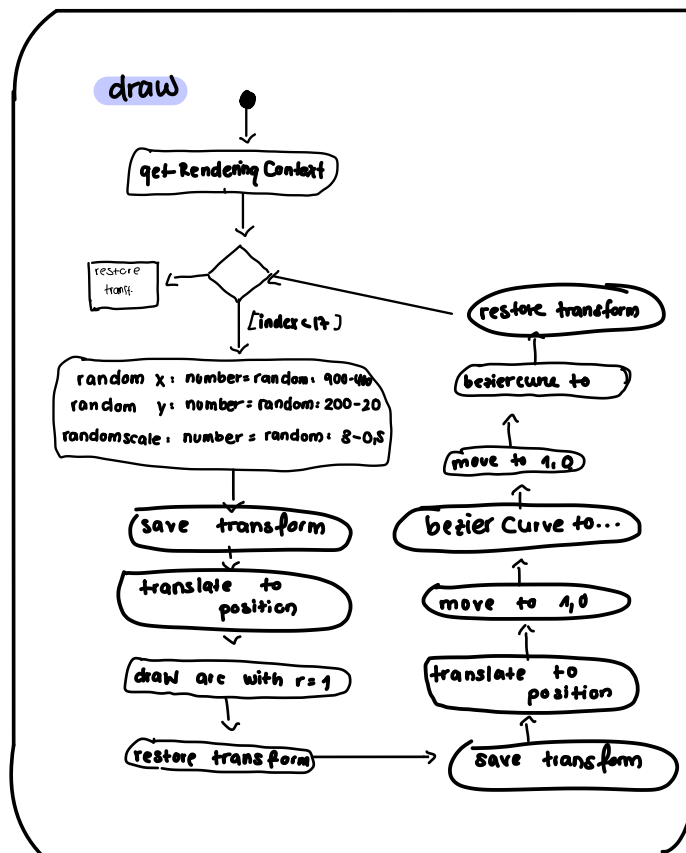
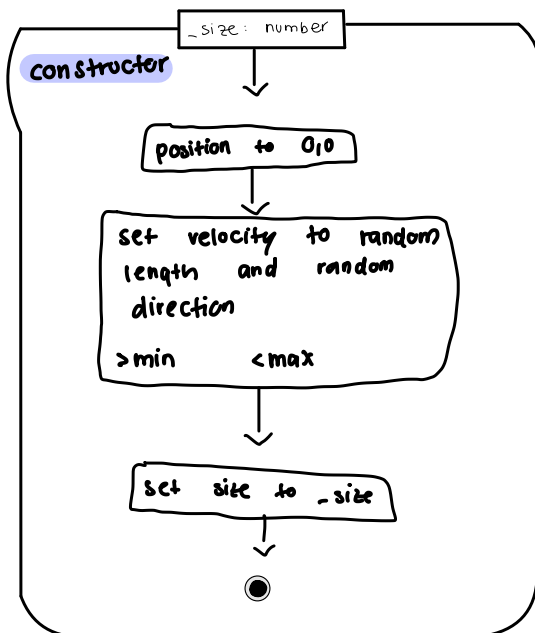
move to 20,0

line to ...

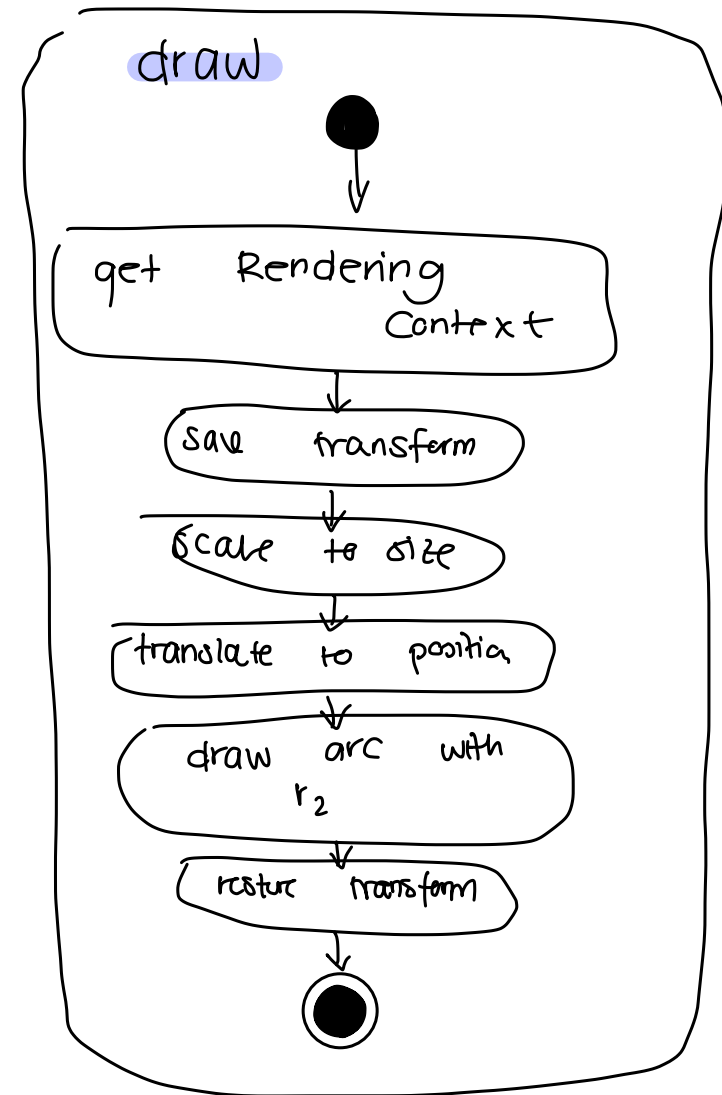
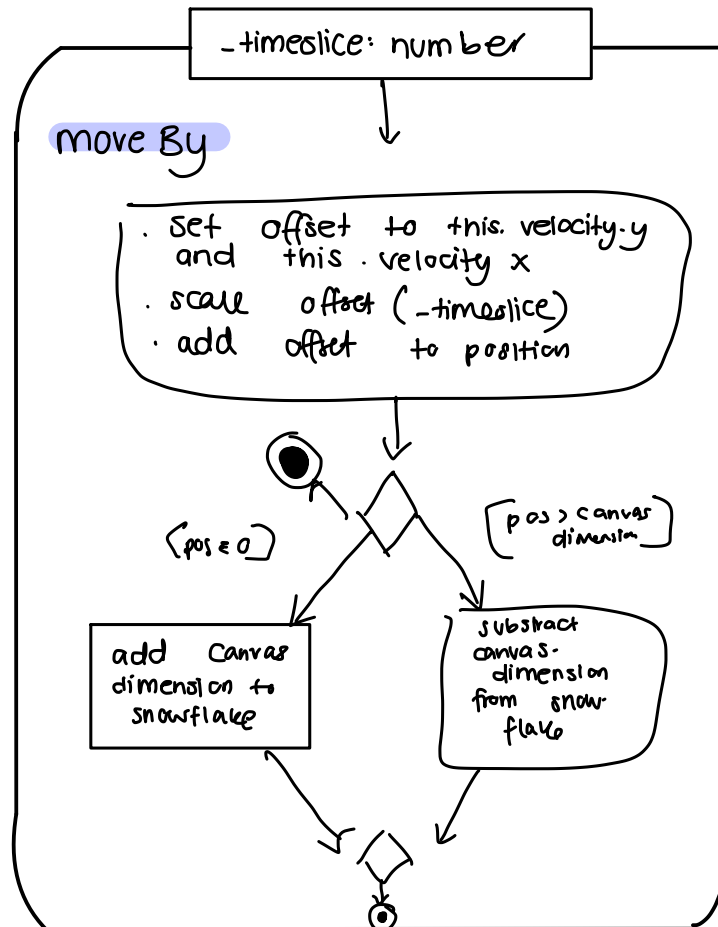
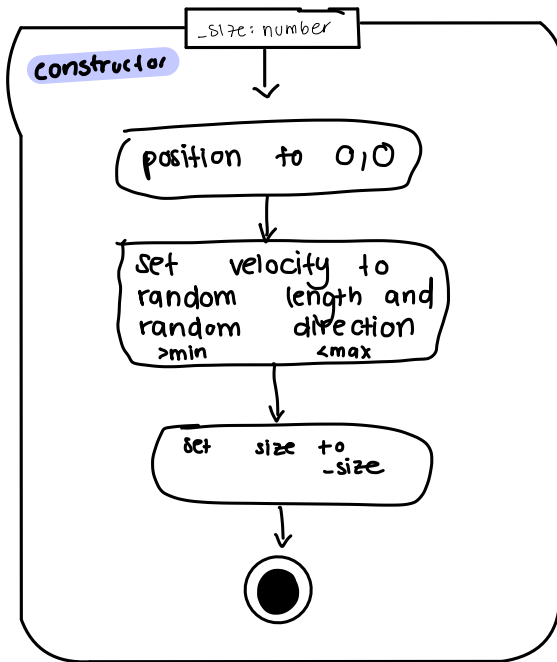
close path

restore transform

bird



snowflake



Klassendiagramm

