

Canvas Rendering Context

Drawable

position: Vector
velocity: Vector
update: boolean

CanvasRenderingContext2D: Vector - velocity: Vector

Vector

x: number
y: number

CanvasRenderingContext2D: x: number, y: number
set: (number, y: number) void
add: (x: number, y: number) void
add: (x: number, y: number) void
add: (x: number, y: number) void

Drawing Bird

color: string
position: Vector
velocity: Vector
update: boolean

CanvasRenderingContext2D: position: Vector, - velocity: Vector
color: string
update: boolean
update: boolean

Drawable

CanvasRenderingContext2D: position: Vector
- velocity: Vector

Drawable: position: number
update: boolean

Drawable

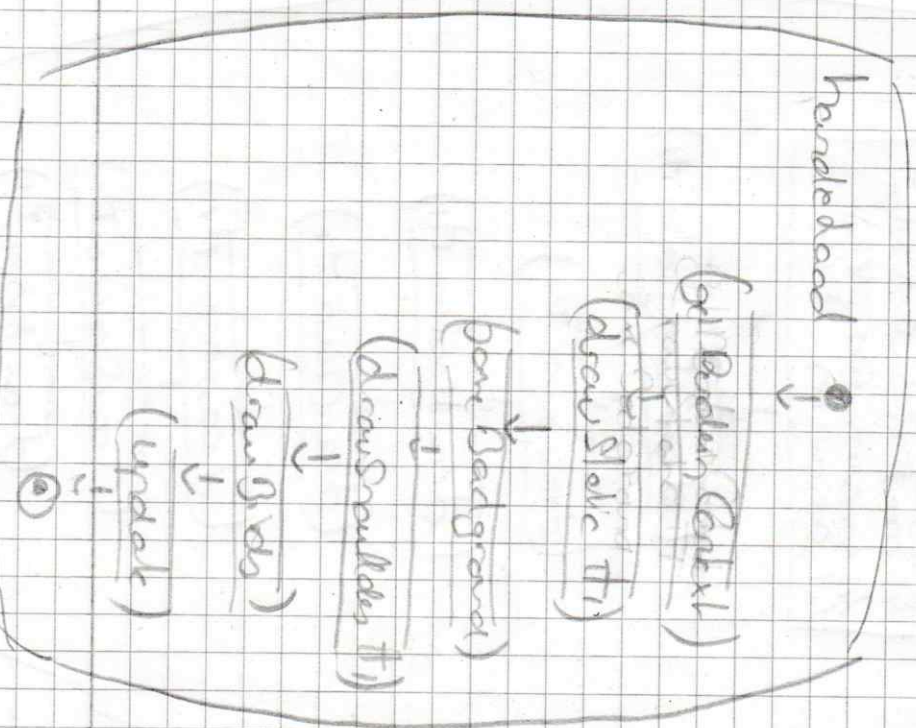
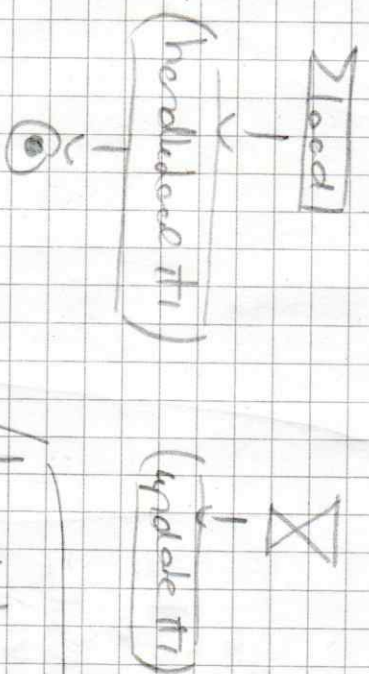
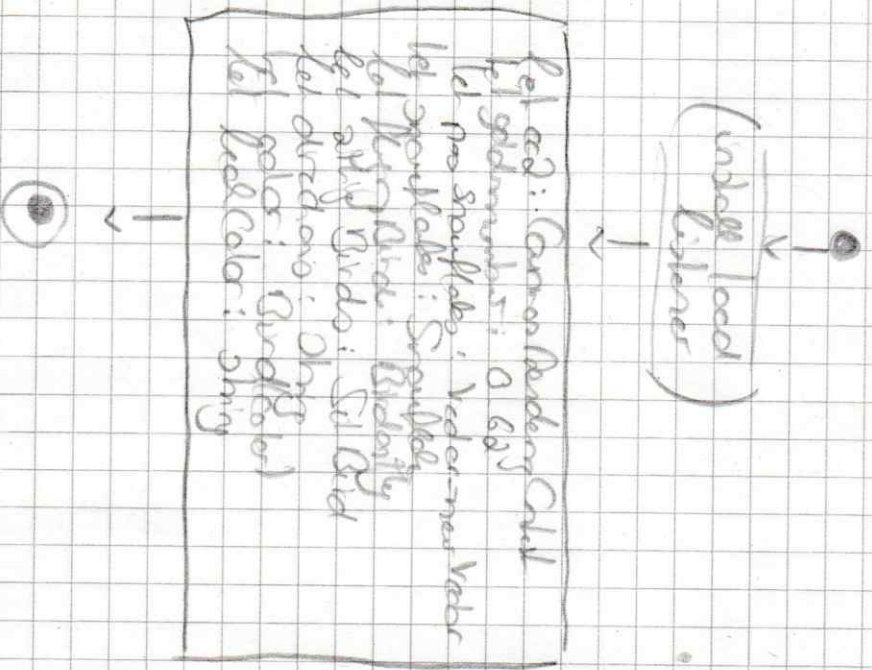
color: number
position: number
update: boolean

CanvasRenderingContext2D: position: Vector
- velocity: Vector

Drawable: position: number
update: boolean

Drawable

UML Activity Diagram



drawState ↓

let hanger: number
 let owlPos: Vector
 let position: number, Vector
 let drawPos: Vector
 let drawSize: Vector
 let hangerSize: Vector
 let positionOffset: Vector
 let anglePa: Vector

↓
 (draw Background t1)

↓
 (draw Sun t1)

↓
 (draw Hanger t1)

↓
 (draw Cloud t1)

↓
 (draw Tree t1)

↓
 (draw Spawner t1)

↓
 (draw Frog t1)

↓
 (draw Frog t1)

4

drawSun

position: Vektor

r1: number 20
r2: number 150
gradient: Radial Gradient

transform: 1.0
yellow m1.2

(done)

(handle)

(draw circle r2)

(resize transform)

●

drawCloud

- position: Vektor
- size: Vektor
- nParticles: number
- radiusParticles: number

particle path full circle
gradient: Radial Gradient

(done)

● ← (color)



x: number = (random - 0.5) * x
y: number = random * size.y

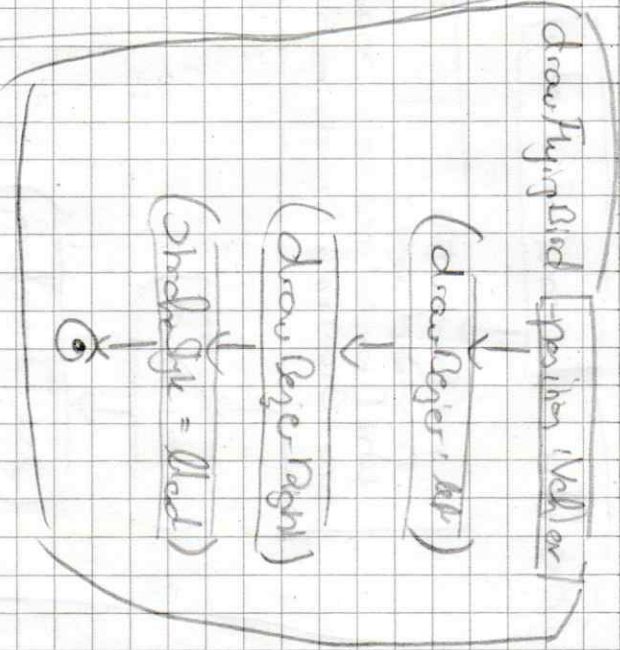
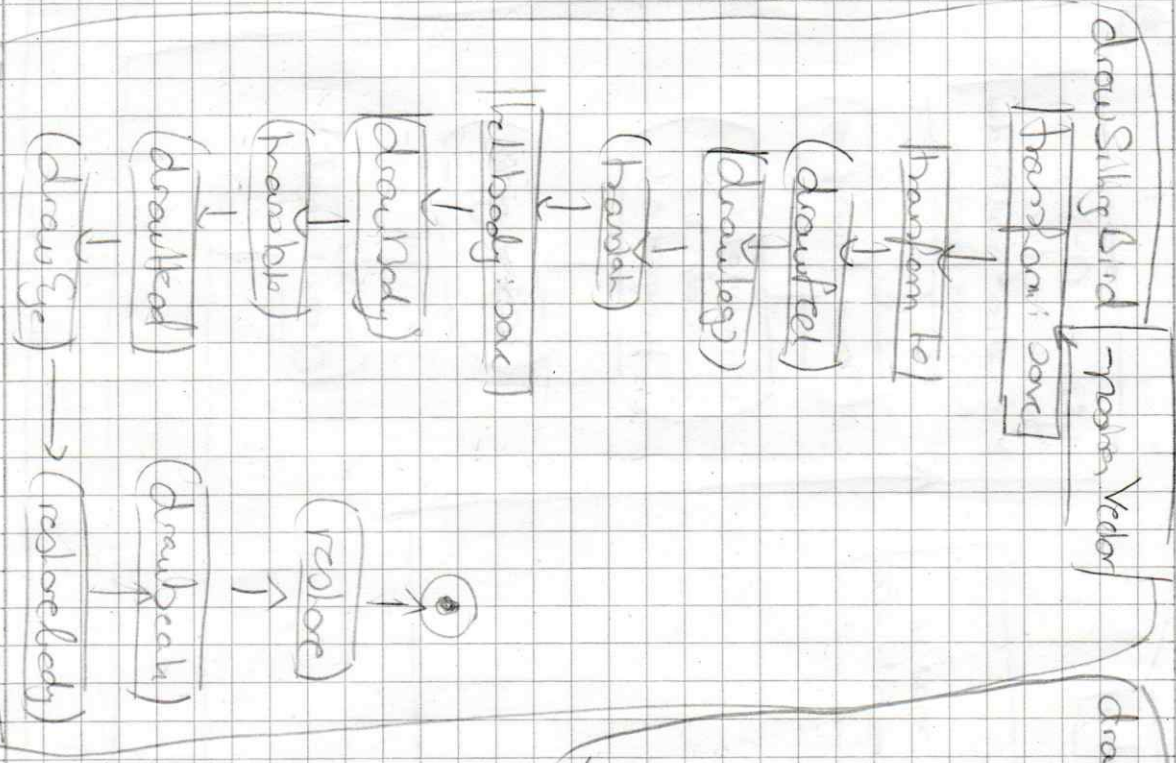
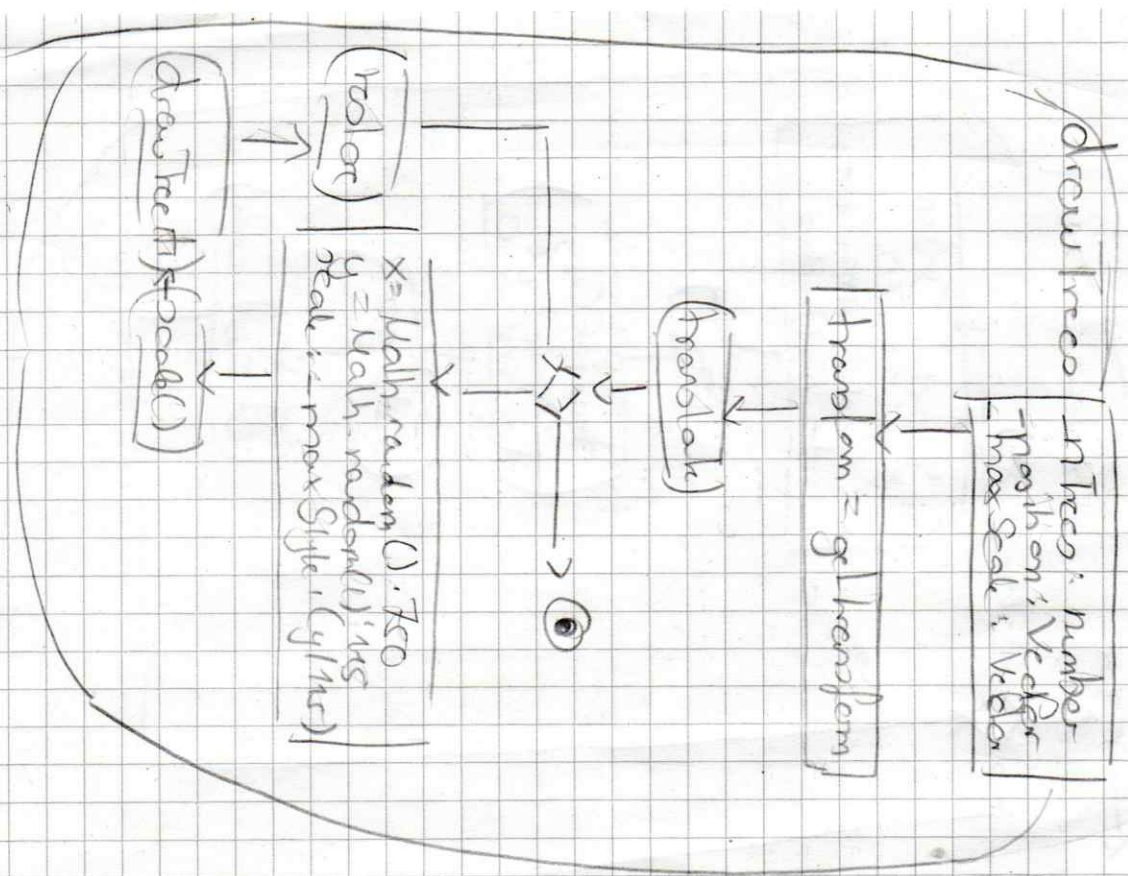
(done)

(handle)

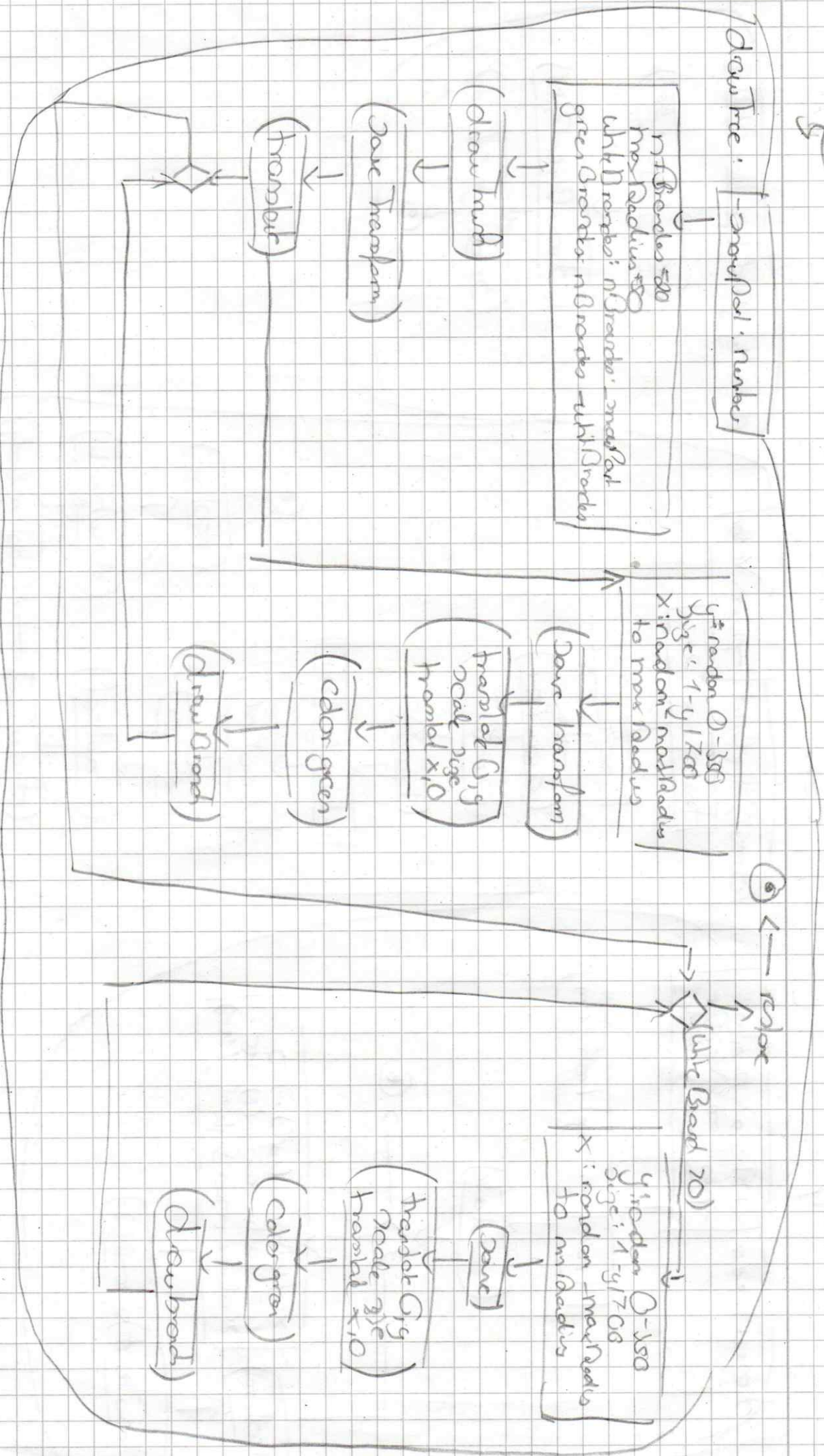
(draw particle)

(resize transform)

4



5



draw Scrollables

if Flat: sub1, - pos1, Vector

(transform)

(border)

X → (vector transform) →

(same transform)

if pos1: Vector = New Vector
if pos2: Vector = Old Vector
if pos3: Vector = New Vector

(scrollable draw)

(transform)

draw Array

position: Vector
index: number

↓

(transform)

(transform)

(drawStart)

(drawEnd)

(drawing Bird (H))

→

○

draw Suman

Position Vector

- let r1: number = randomBetween(0, 100)
- let r2: number = r1/3
- let r3: number = r2/3
- let x1: Vector = {x: 0, y: r1}
- let x2: Vector = {x: 0, y: r2}
- let x3: Vector = {x: 0, y: r3}
- let color: del String color
- let transform

(transjak)

$$\left(\begin{array}{c} \text{transak} \\ x_1 \end{array} \right)$$

(Draw Circle)

(translate to x_3)

chronic

$$\overline{\overline{(\text{bracket to } x_2)}}$$

(draw Circle)

(3)

(translab)

(draw Ge)

(drawn)

Polser

Wahrscheinlichkeit

A hand-drawn diagram of a cell. It features a central, dark, circular nucleus. Surrounding the nucleus is a lighter, irregularly shaped area representing the cytoplasm. The entire cell is enclosed within a thin, irregular border. The drawing is done in pencil on a grid background.

