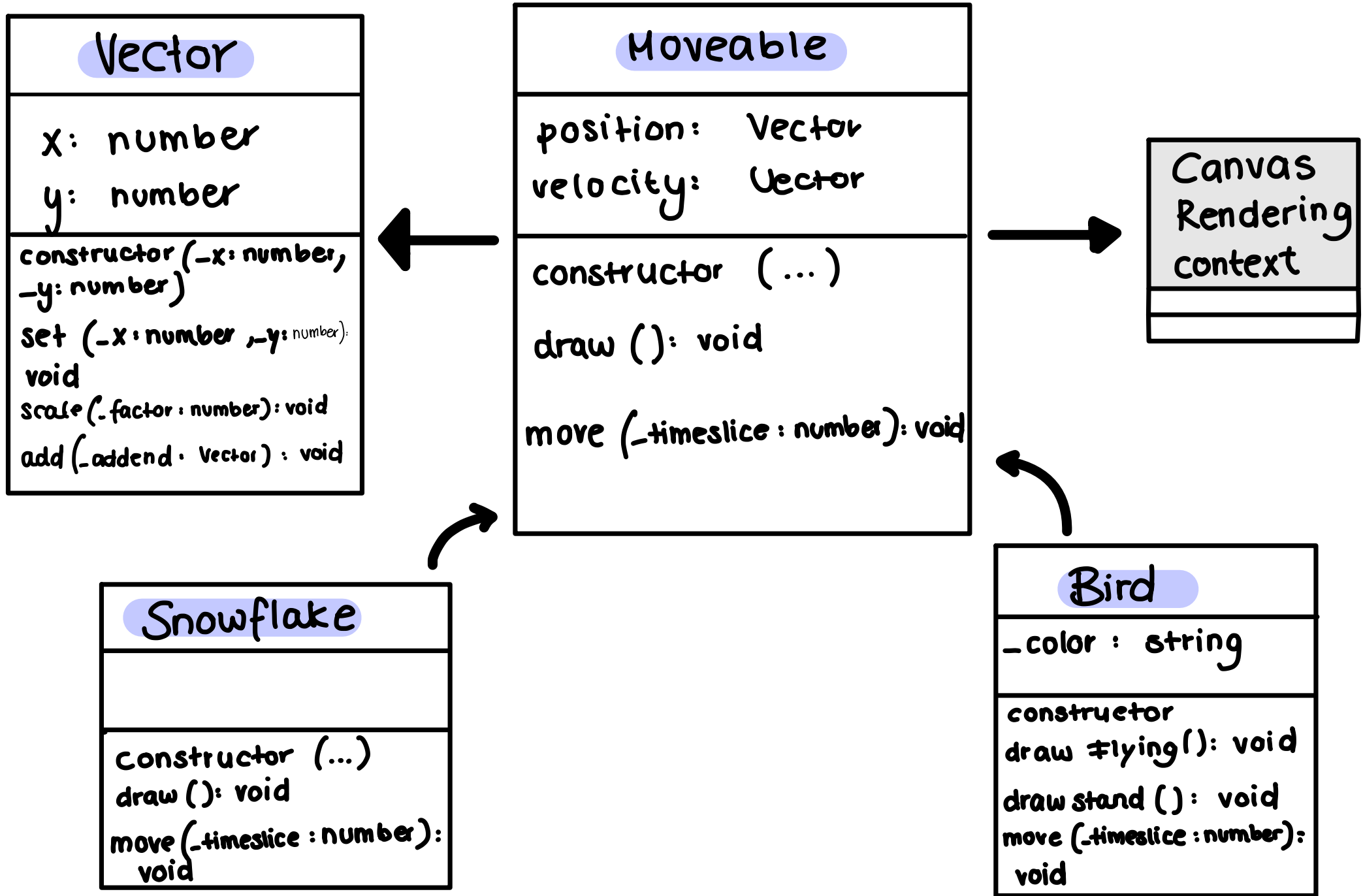
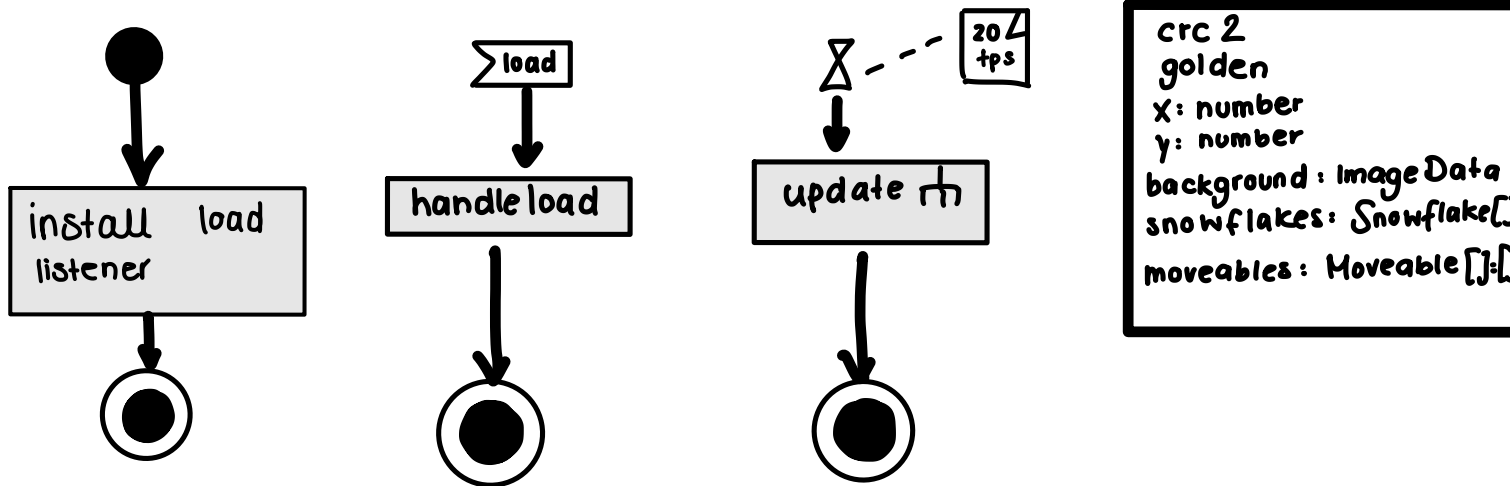


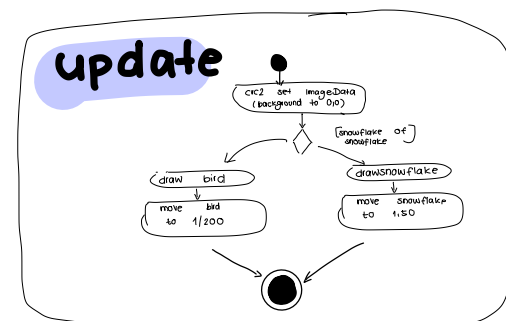
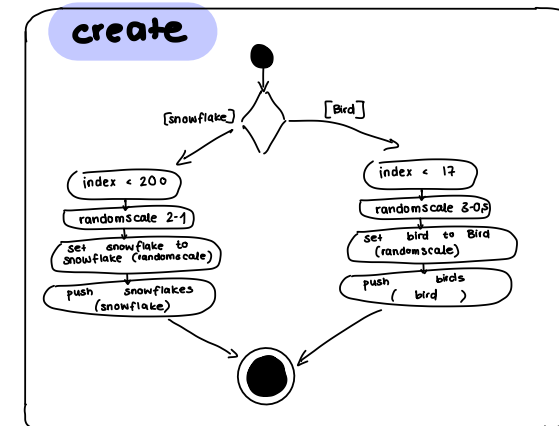
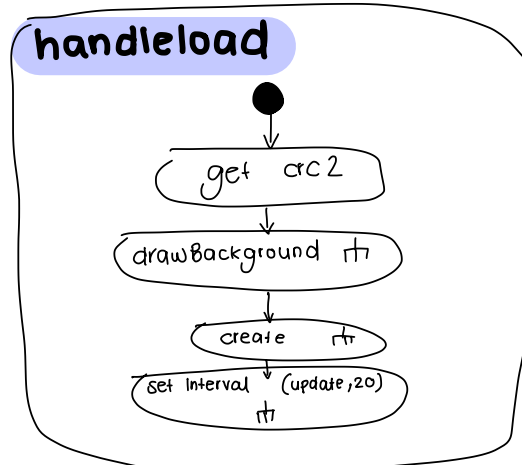
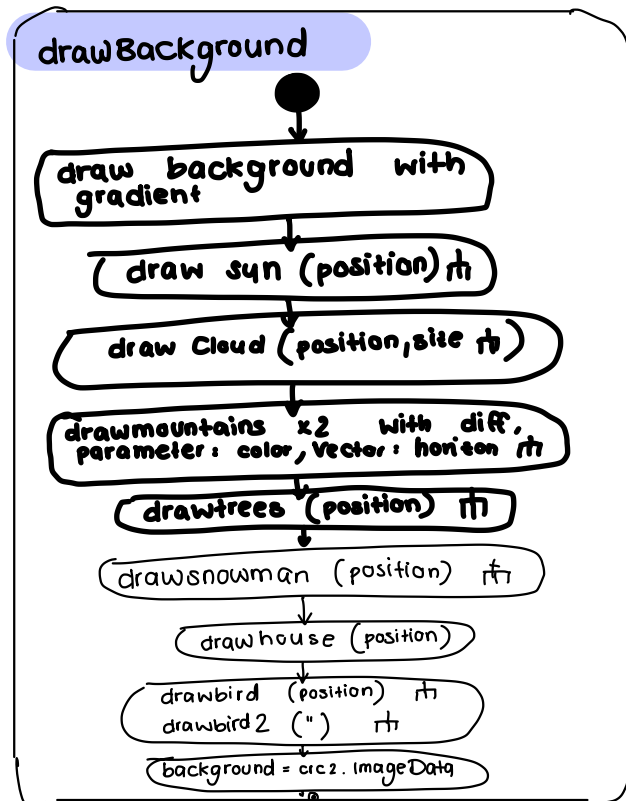
# Class Diagramm



# Aktivitätsdiagramm - main



crc 2  
golden  
x: number  
y: number  
background: ImageData  
snowflakes: Snowflake[]  
moveables: Moveable[]



-position: Vector

## draw Sun

r1: number = 40  
r2: number = 150  
gradient: Radiogradient

Set colorstop at 1.0  
white - yellow → brightyellow

save transform

translate to -position

draw arc

restore transform



## draw Mountains

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

stepMin: number = 30;  
stepMax: number = 20;  
x: number = 0

save transform  
translate to -position  
move to 0,0  
line to 0,-max

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

## draw Snowman

r1: number = 80;  
r2: number = 60;  
r3: number = 80;  
r4: number = 40;  
r5: number = 90;  
r6: number = 30;

Set colorstop at 1.0  
a → 0 a → 1

save transform

translate to -position

draw arc  
with r2, r4, r6

restore transform



draw house

\_position: Vector

save transform

translate to  
\_position

move to -80,0

line to ...

close Path

restore transform

draw trees

\_position: Vector

restore

[index < 7]

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

save transform

translate to random x,  
random y

Scale to randomscale,  
randomscale

move to 20,0

line to ...

close 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

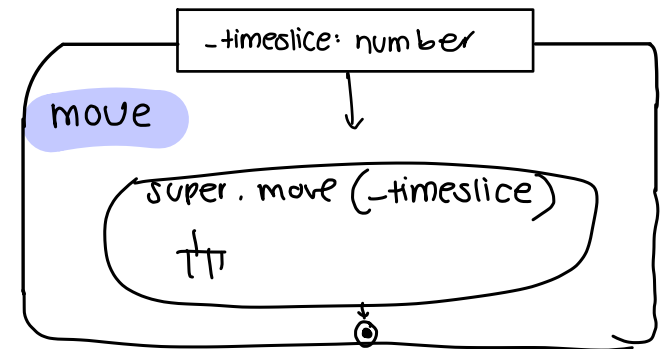
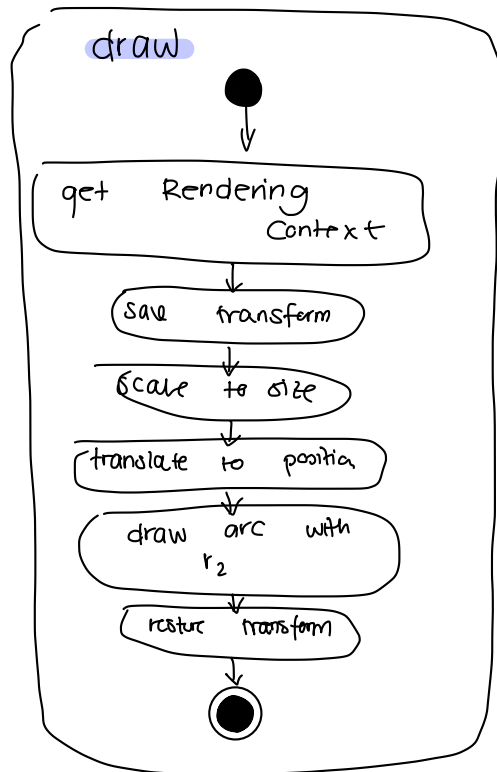
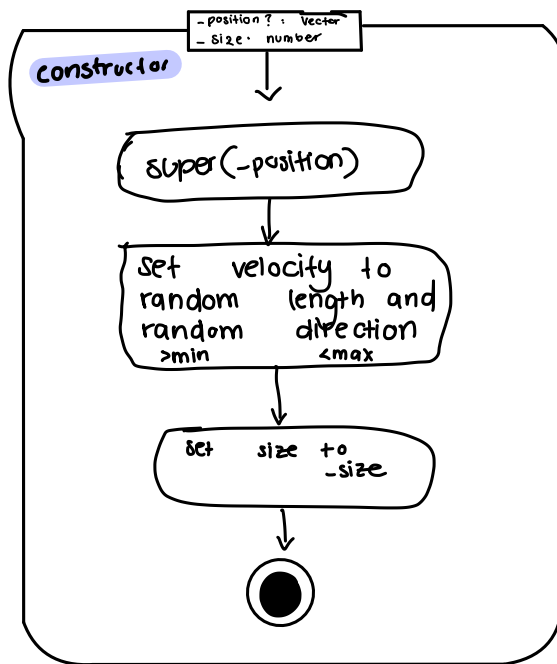
randomcolor

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

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

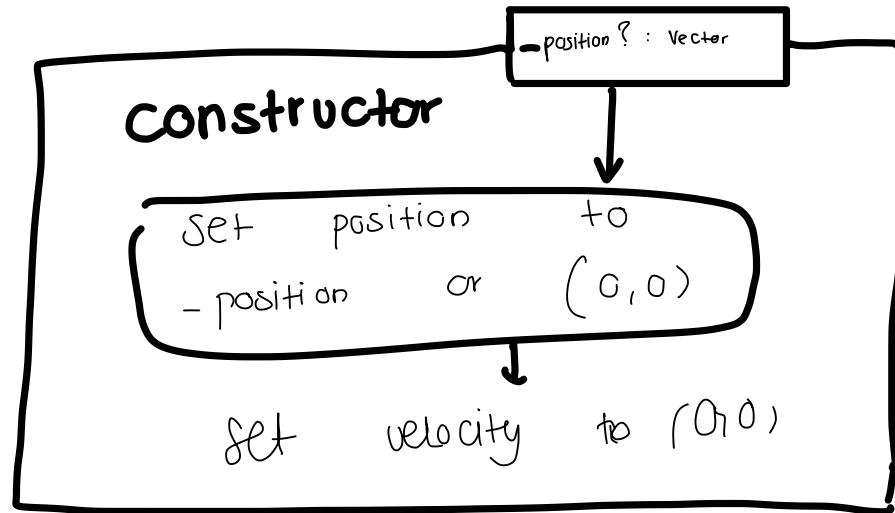
color += letters[Math.floor(Math.random() \* 10)];

# Snowflake





moveable



draw



move



-timeslice : number

move

-set offset to this.velocity.y &  
this.velocity.x  
- scale offset (-timeslice)  
- add offset to position

