

pointerdown

create Babyduck ↗



create Babyduck



wurde Bd geklickt = false



set click Koordinaten



Duck aus movables holen



Bd clicked = true



create Babyduck



Bd clicked = false



create Food



choose closest
Duck

Activity Diagram: Ducks

Constructor

↓
super(-x, -y, -color)
⊙

- activity : string

↓
set state
idle, moving to food, eating,
returning = idle
⊙

draw

↓
save
↓
begin Path
↓
translate(this.x, this.y)
↓
fill duck with color
↓
draw ellipse
↓
close Path
↓
restore
⊙

move

↓
checking state of Duck
↓
calculating distance
↓
sets speed
↓
change state
↓
eating
↓
returning
↓
back to idle state
↓
super.move as default
⊙

Activity Diagram: Bees

Constructor

↓
super(-x, -y, -color)
⊙

Move

↓
set direction
↓
reset position:
this.x > canvas.width
⊙

draw

↓
save
↓
begin Path
↓
translate(this.x, this.y)
↓
fill with color
↓
draw ellipse
↓
close Path
↓
restore
⊙

Activity Diagram: Babyducks

constructor



super(-x, -y, -color)



draw



save



begin Path



translate(this.x, this.y)



scale(0.5, 0.5)



fill with color



draw ellipse



close Path



restore



Activity Diagram: Food

size: number

constructor



set size



color: string

constructor



set color



draw



save



begin Path



translate



fill



draw arc



close Path



restore



Klassendiagramm:

Food
size: number color: string
constructor() draw()

assign closest Duck



search closest Duck
in moveables



check's state of
Duck



set closest Duck
as target