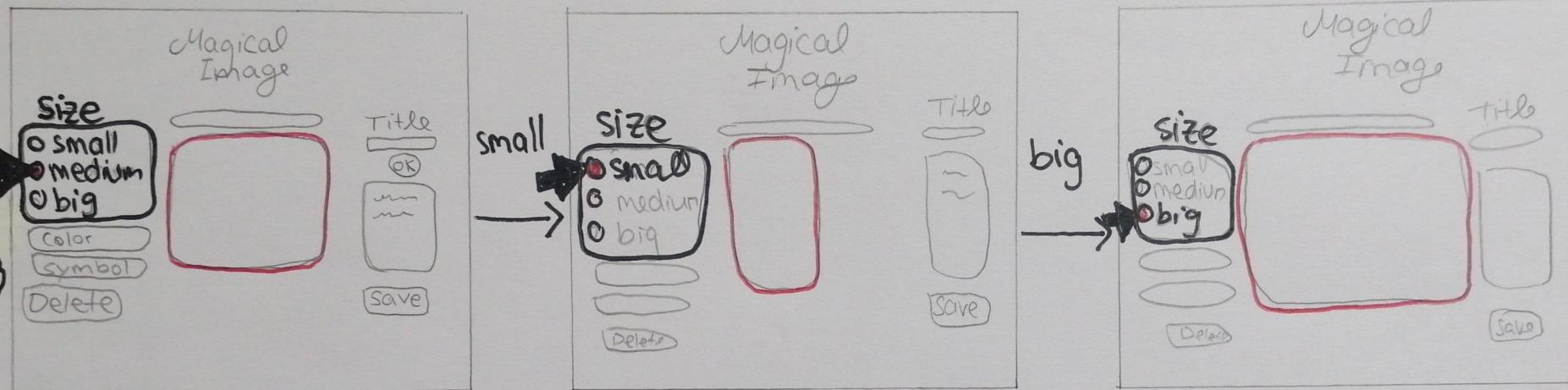


# Magical Image

- Skizze

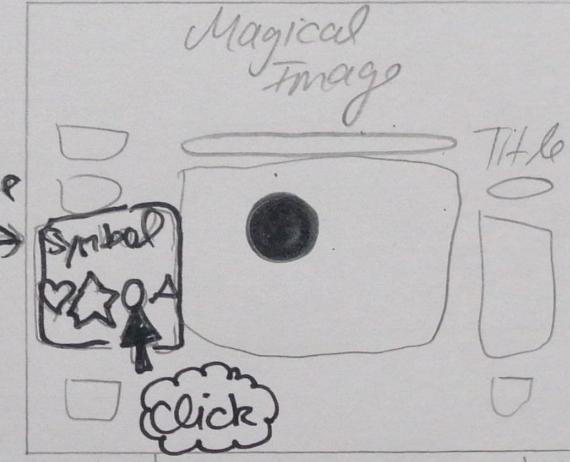
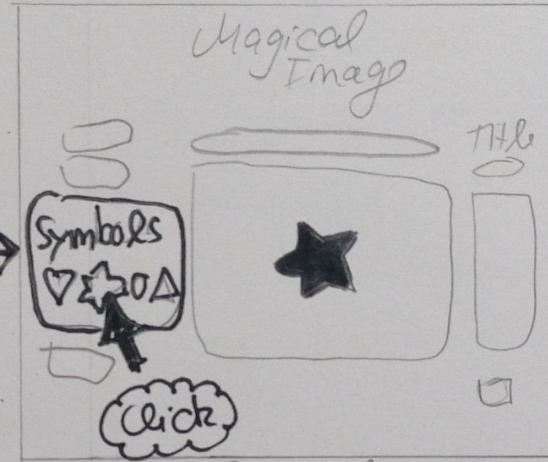
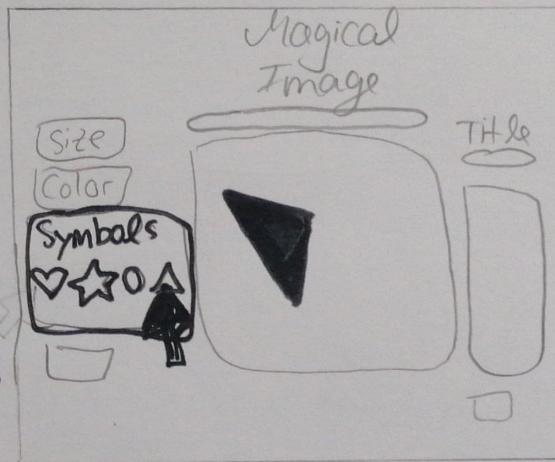
Der Nutzer kann die Größe der Zeichenfläche einstellen



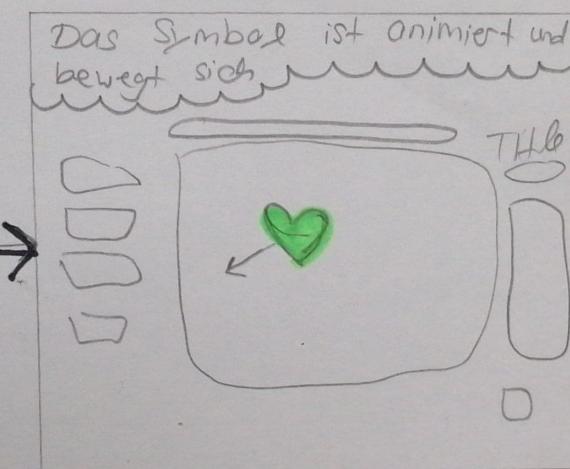
Der Nutzer kann die Farbe der Zeichenfläche einstellen



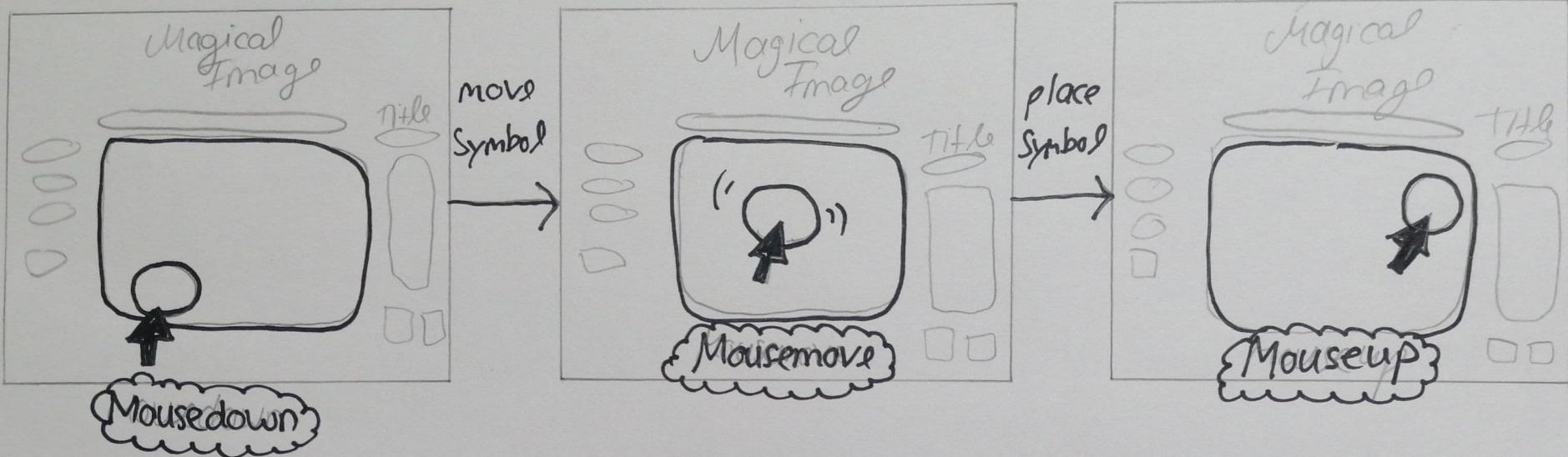
Der Nutzer kann zwischen 4 verschiedenen Symbolen wählen



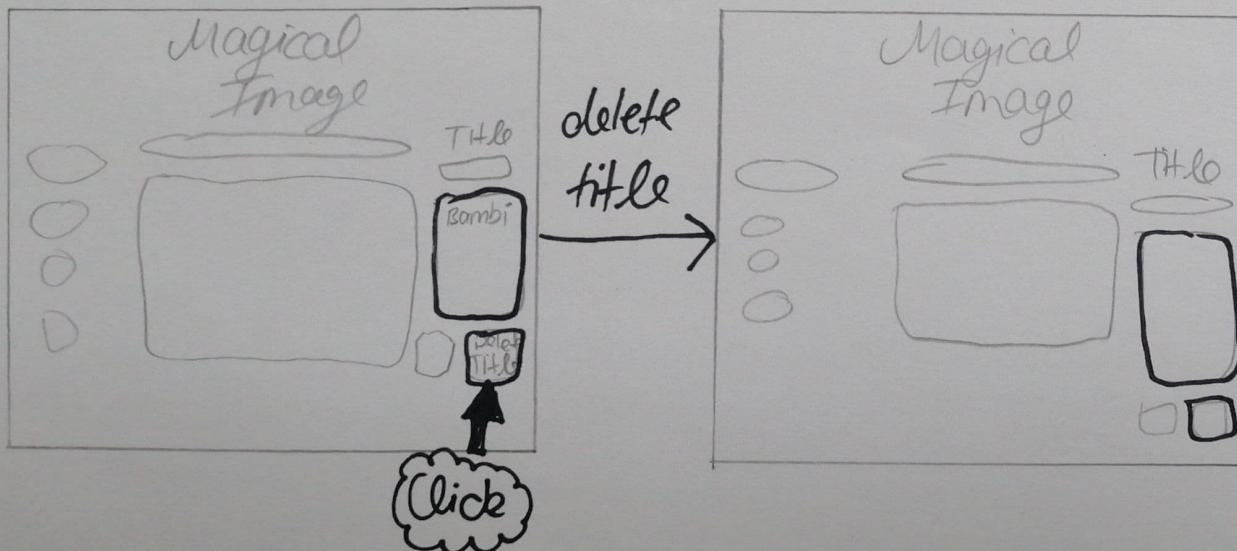
heart ↓ Nachdem der User das Symbol angeklickt hat, kann er eine beliebige Farbe eingeben



Der Nutzer kann die Symbole per Drag & Drop individuell verschieben



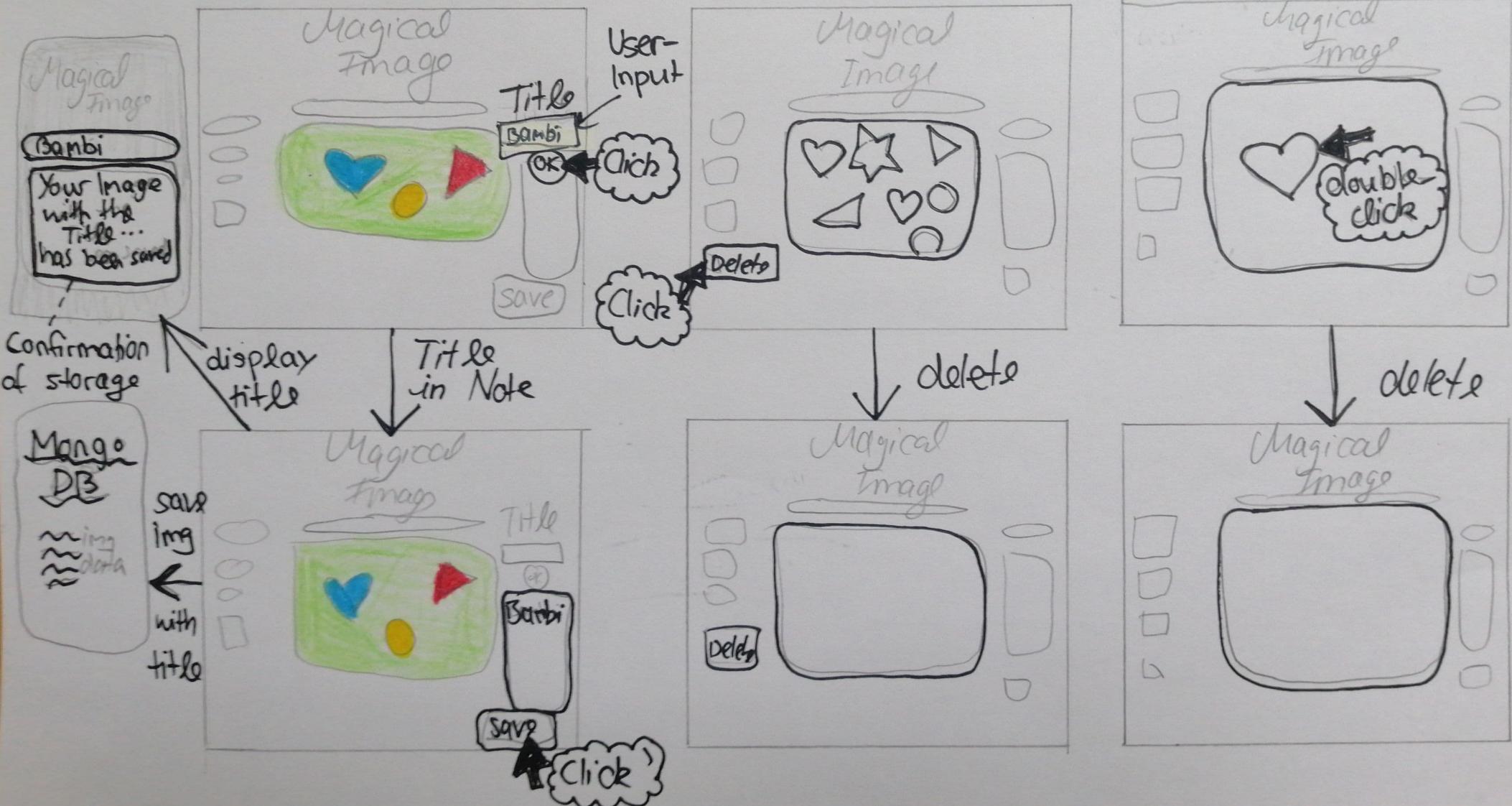
Der Nutzer kann den eingegebenen Titel wieder löschen

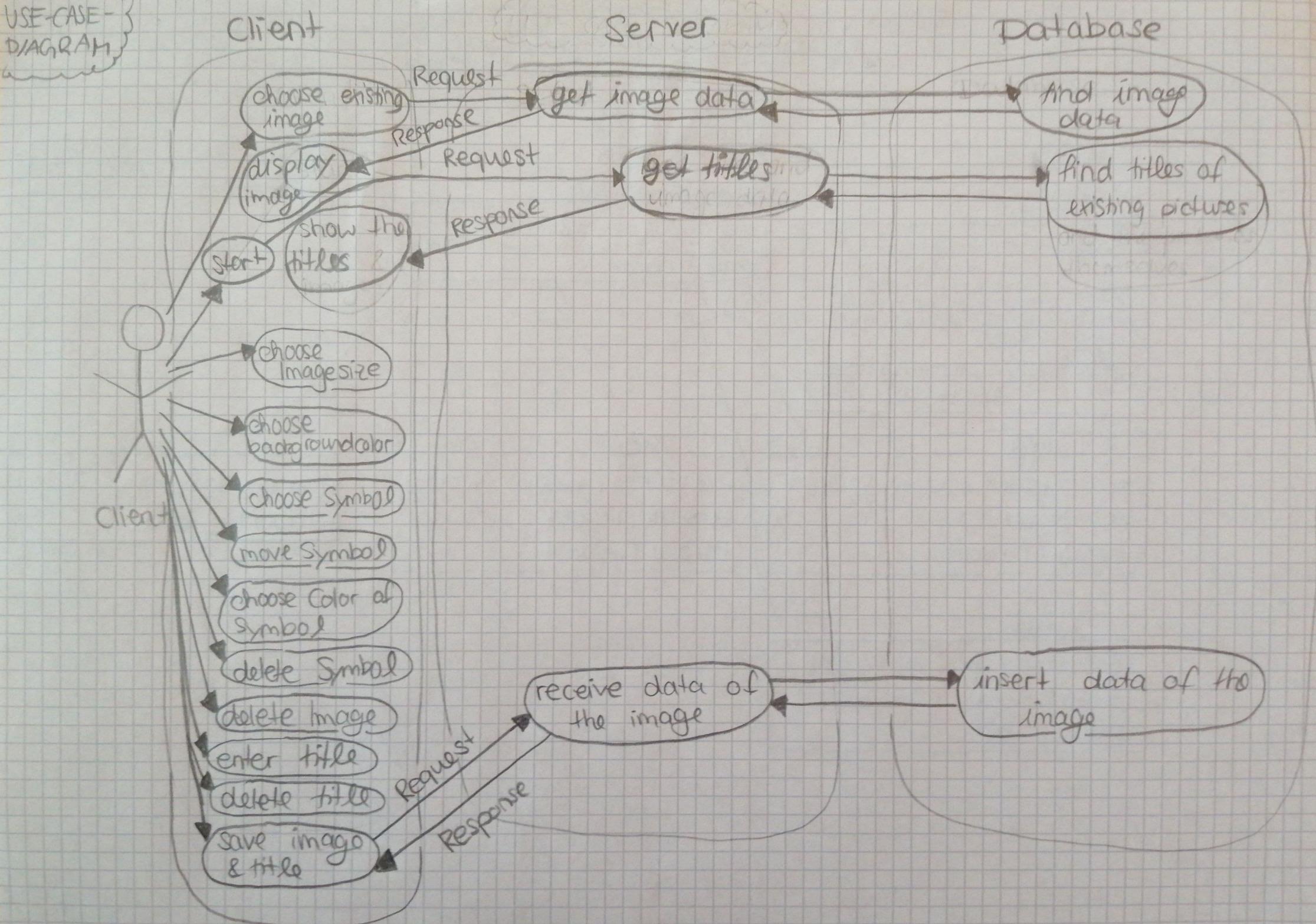


Der Nutzer kann im Input-Feld einen Titel für das folgende Bild eingeben und dadurch Bild + Titel abspeichern

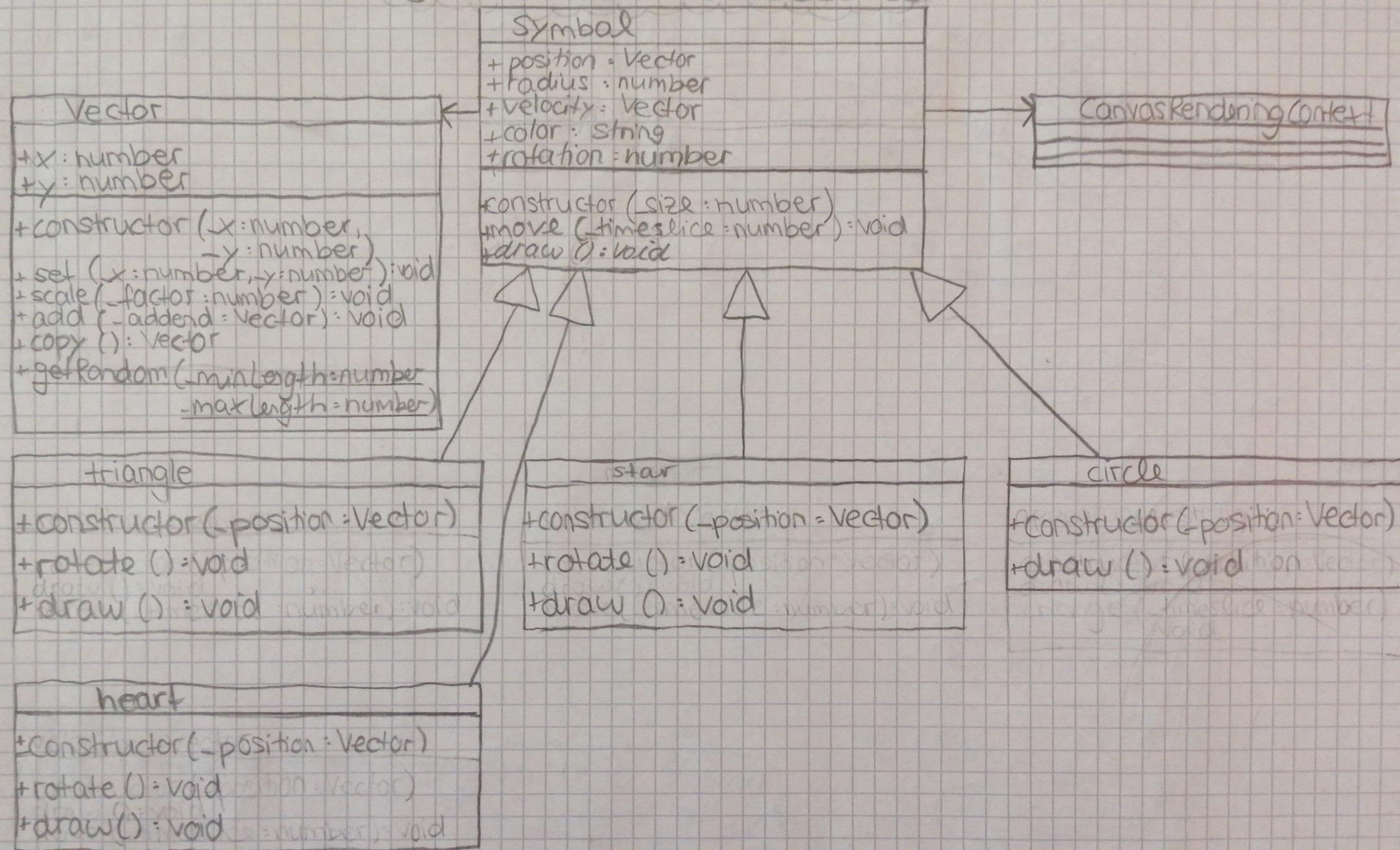
Durch Klicken des "Delete"-Buttons werden alle Symbole im Canvas gelöscht

Durch Doppelklick auf Symbol wird dieses gelöscht





# Zauberbild - Klassendiagramm



Zauberbild  
UI-Sketch

# Magical Image

<div>  
id="size"  
</div>

<h2>  
id="sizeTitle"  
</h2>

Choose your image size

small  
 medium  
 big

<div>  
id="color"  
</div>

<h2> id="colorTitle"  
</h2>

Choose your Background Color

<h2>  
id="symbolTitle"  
</h2>

Choose your Symbol

?

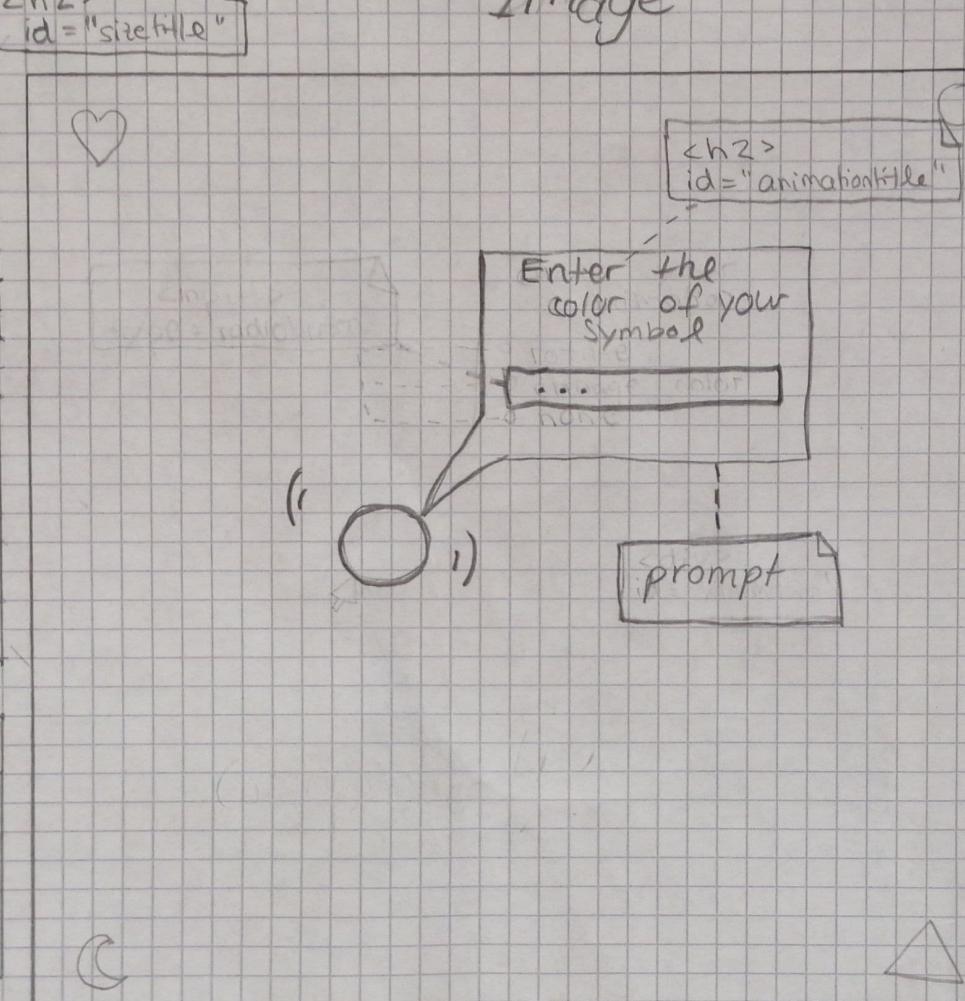
?

<div>  
id="symbol"  
</div>

<button>  
id="circle"  
</button>

DELETE

<button>  
id="deleting"  
</button>



<h1>  
id="mainTitle"  
</h1>

title 1   
title 2   
title 3   
title 4

<input>  
id="title"  
</input>

<canvas>  
id="magicalImage"  
</canvas>

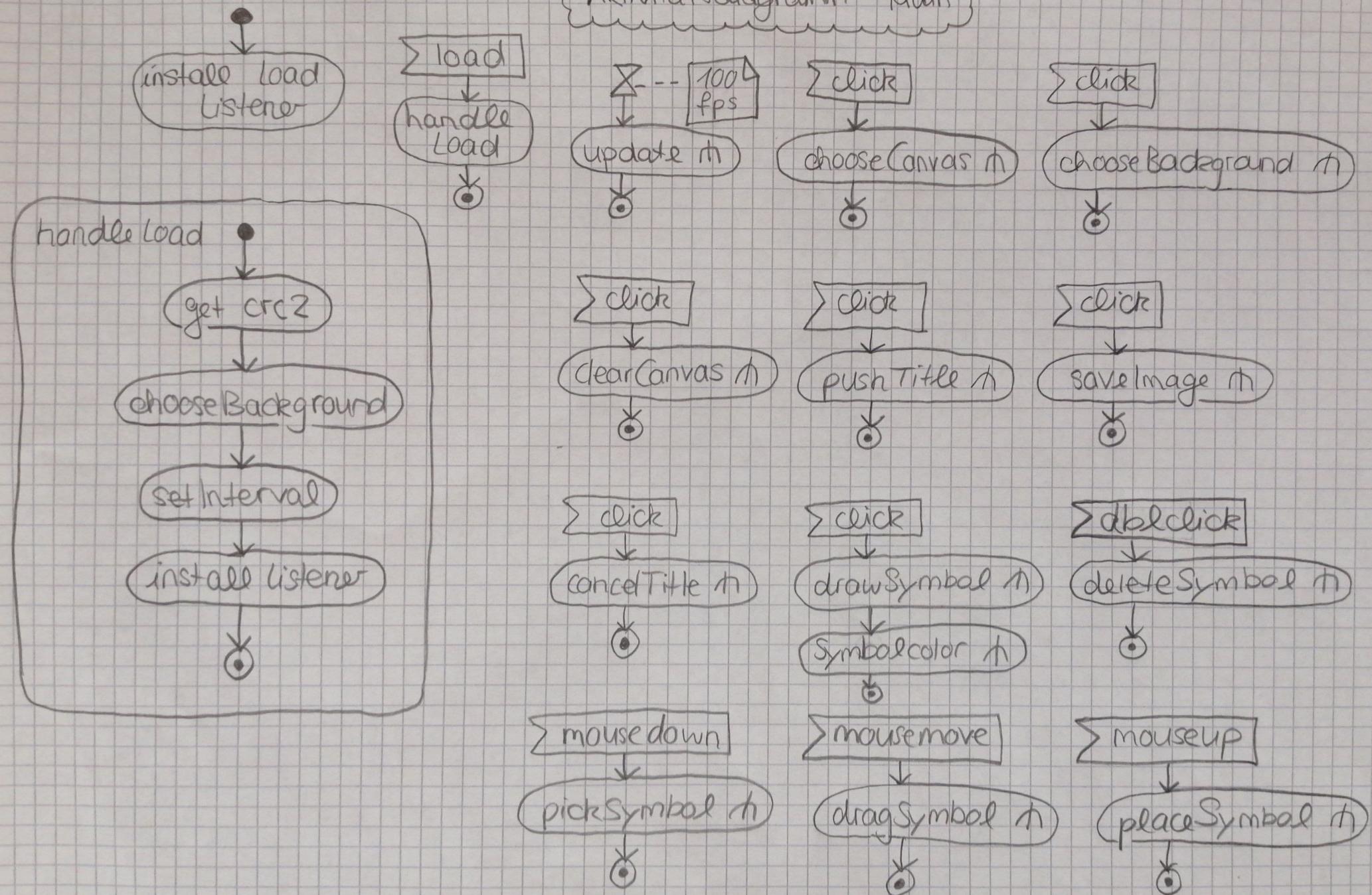
title : horse

<div>  
id="shortTitle"  
</div>

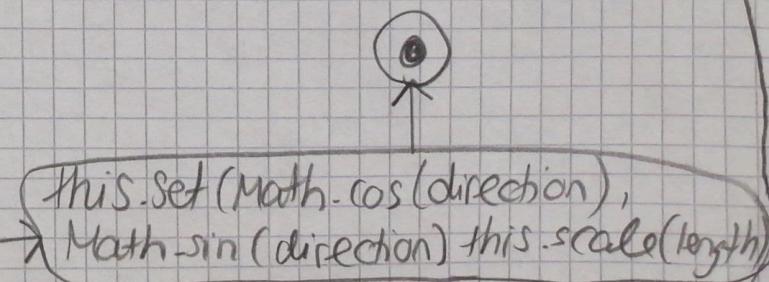
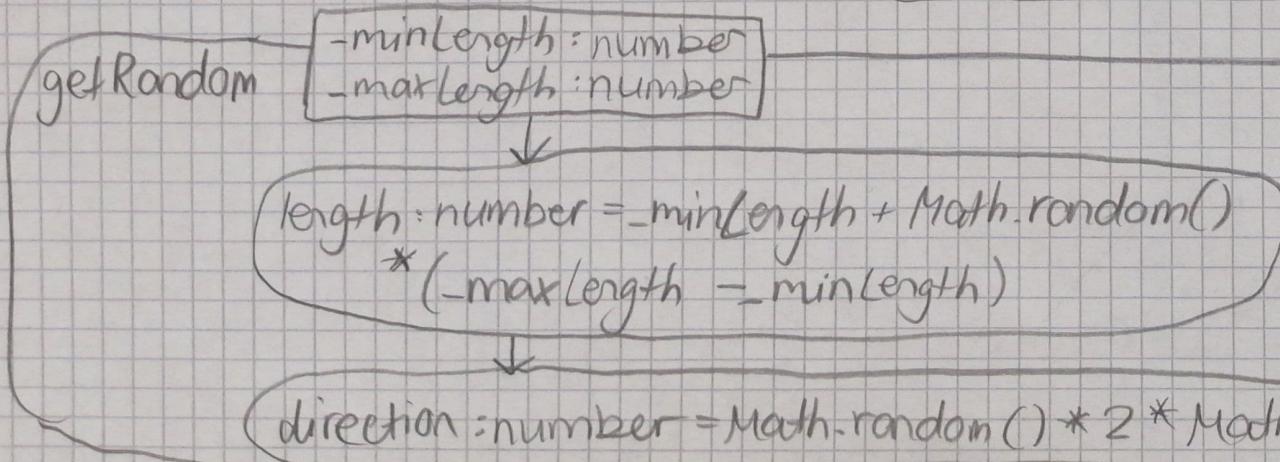
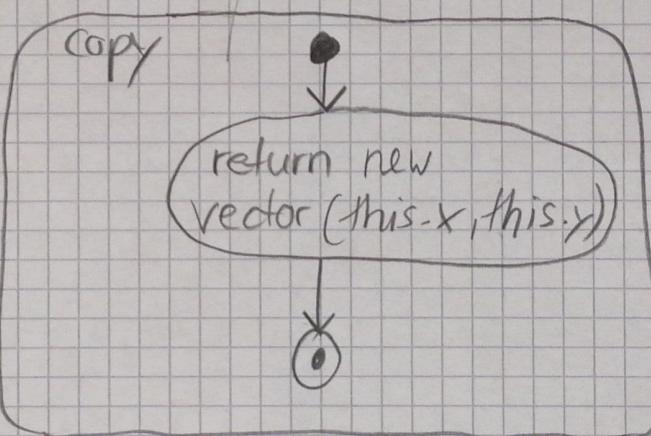
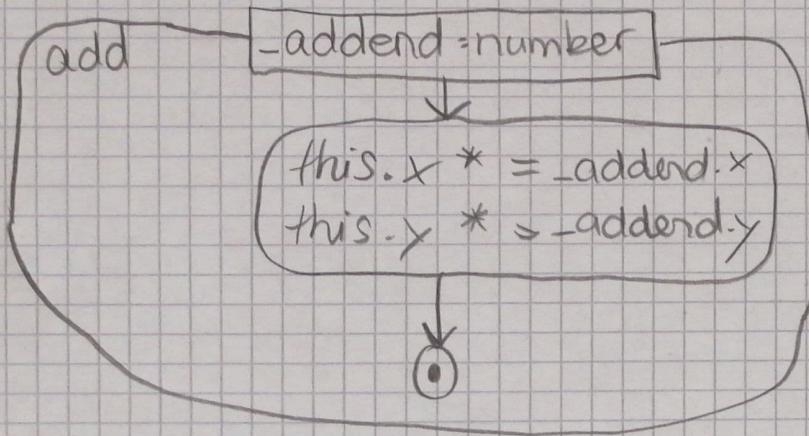
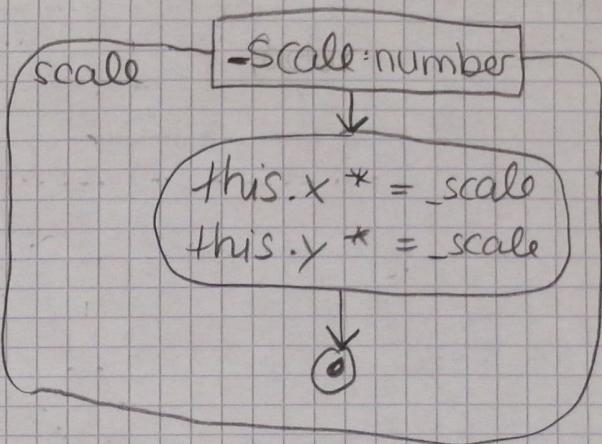
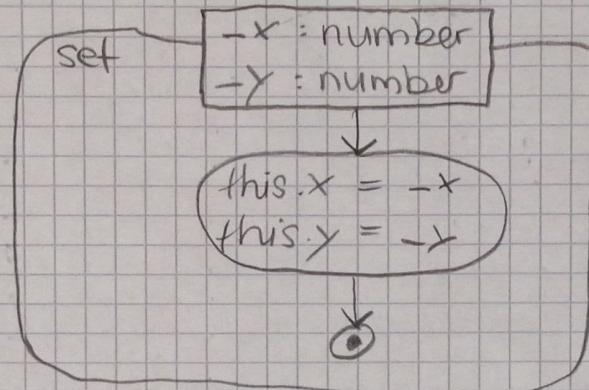
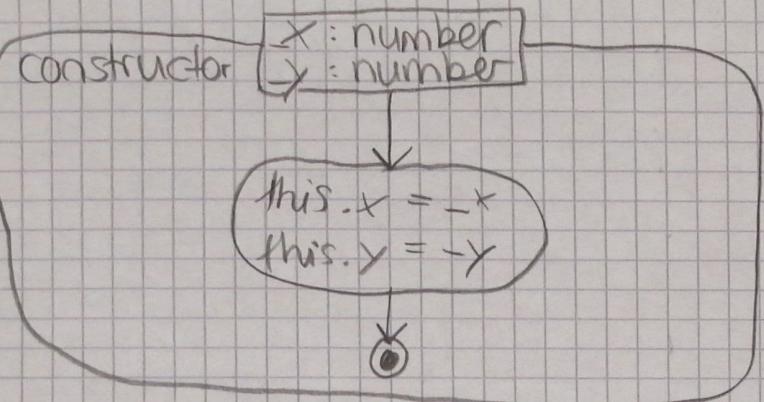
SAVE

<button>  
id="saving"  
</button>

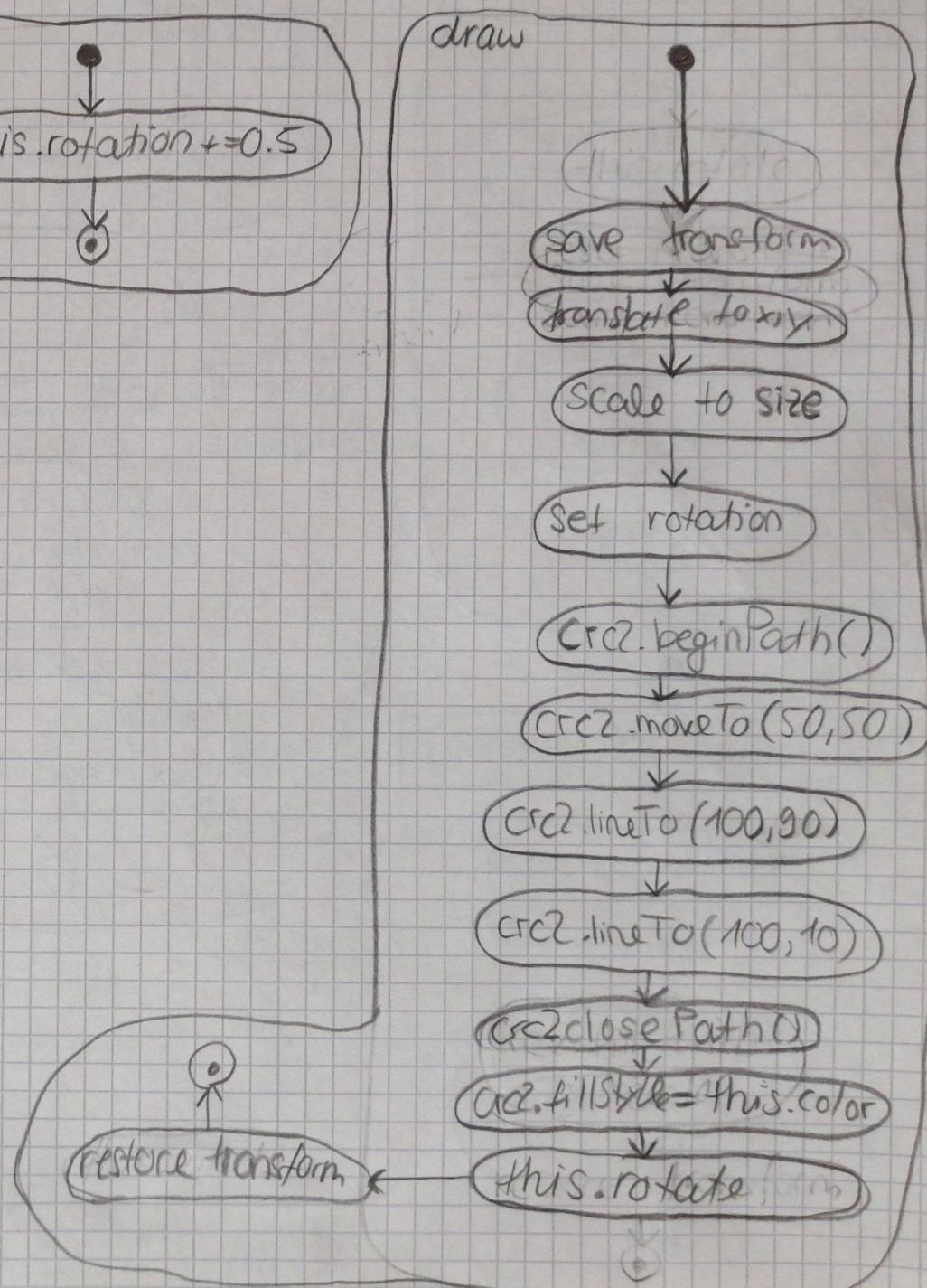
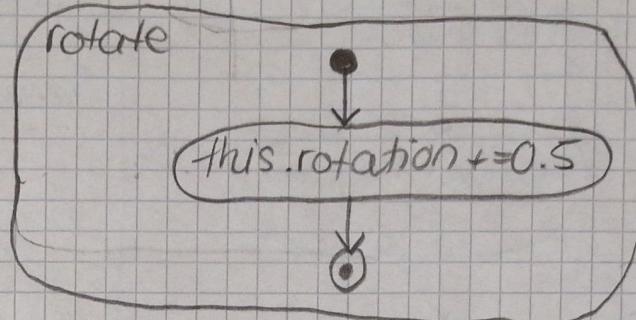
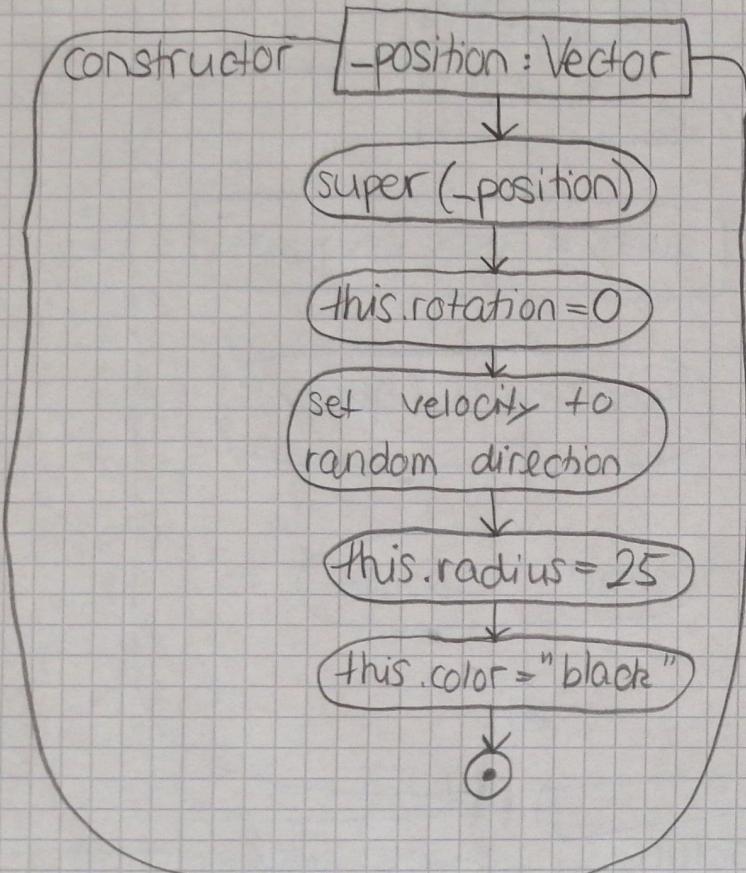
# Aktivitätsdiagramm – Main



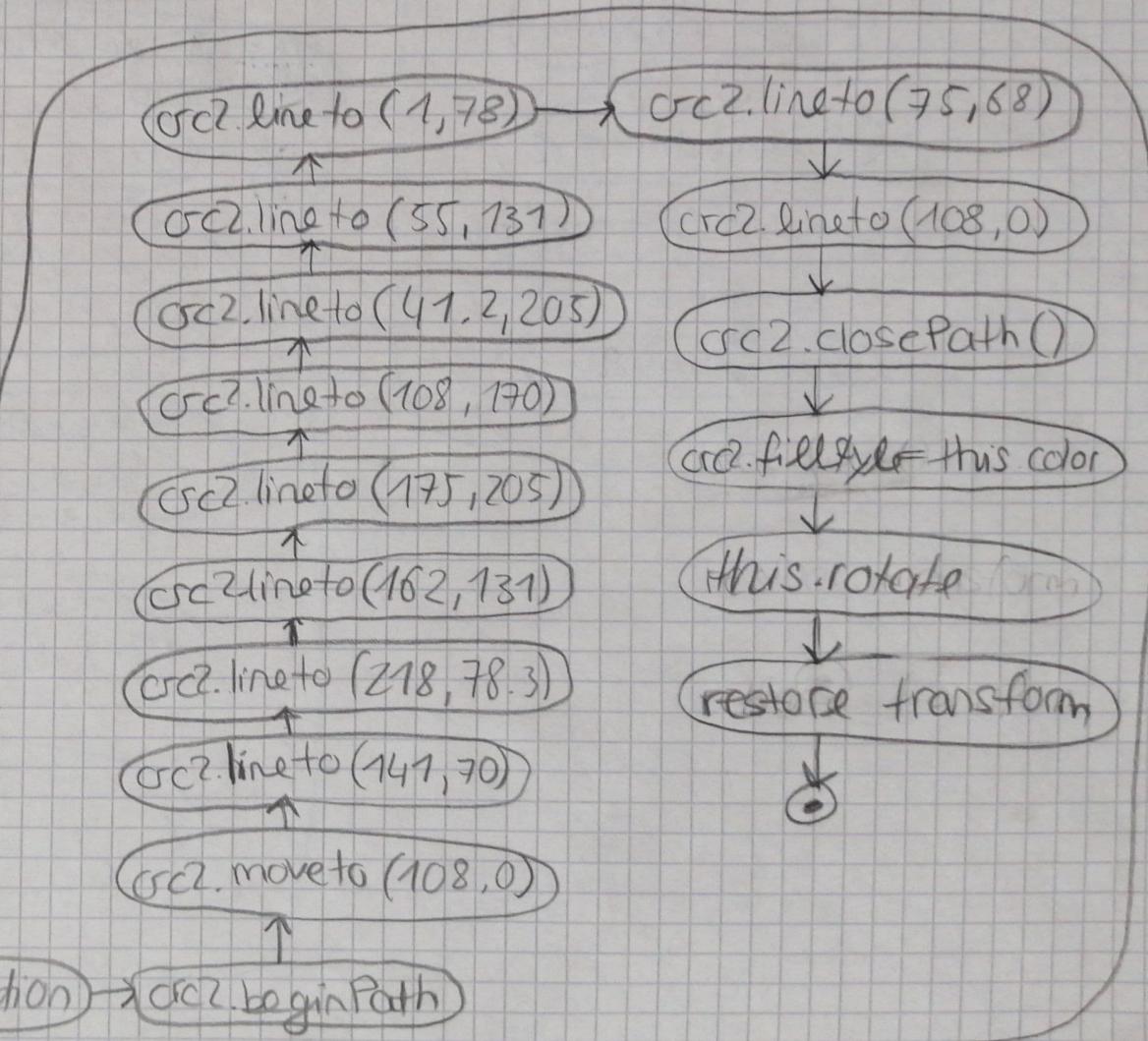
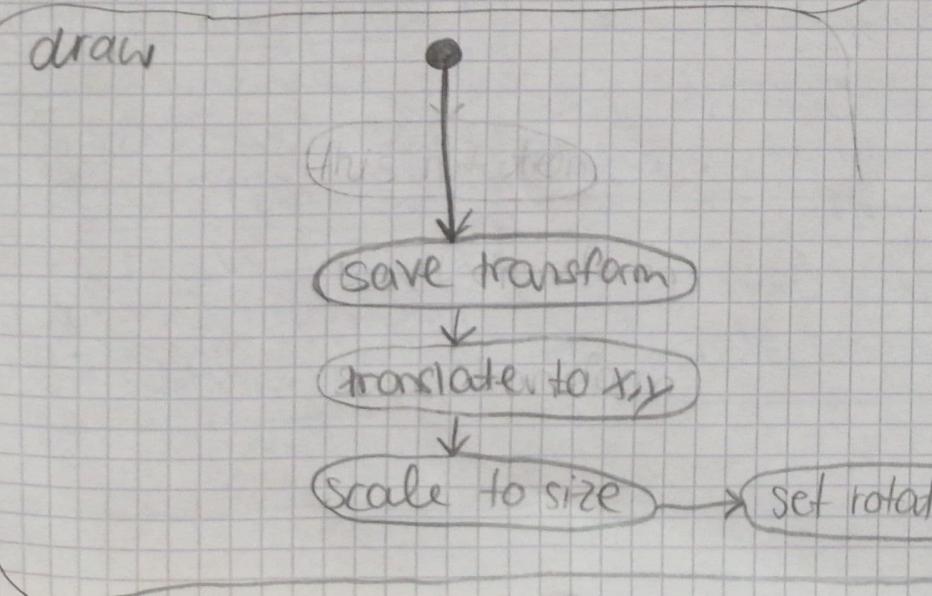
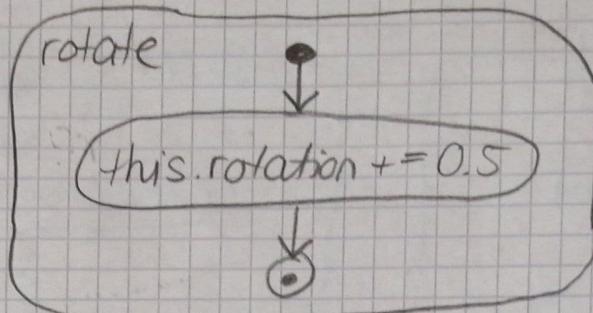
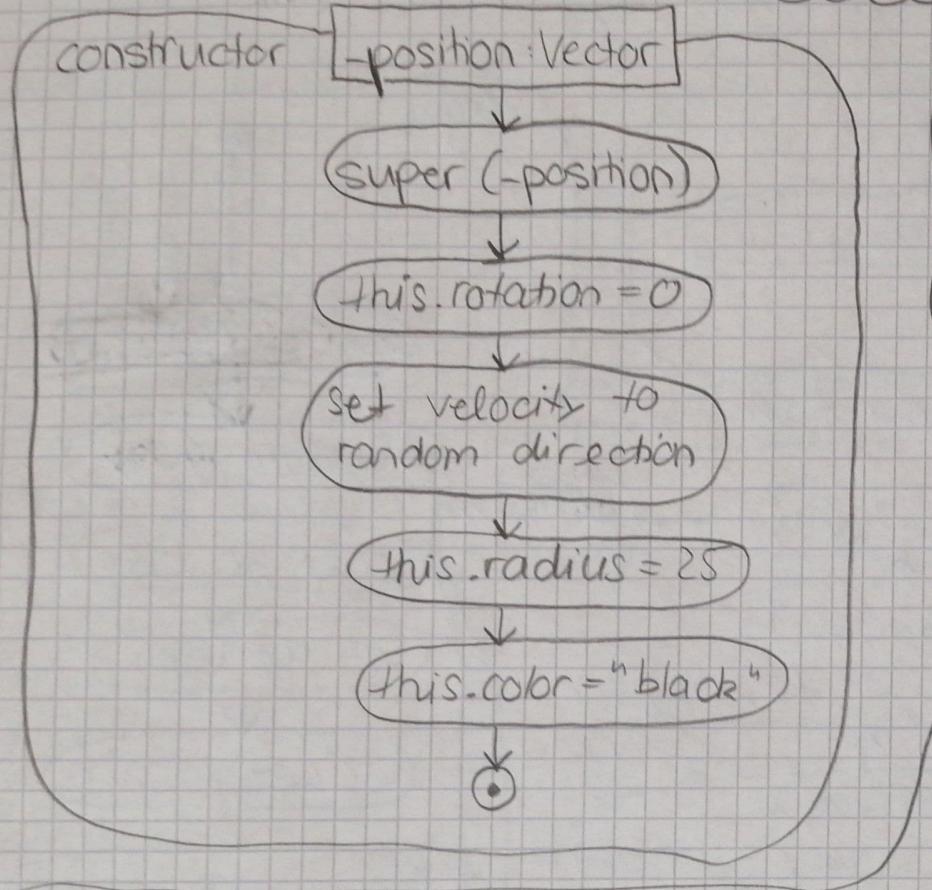
# Aktivitätsdiagramm - Vektor



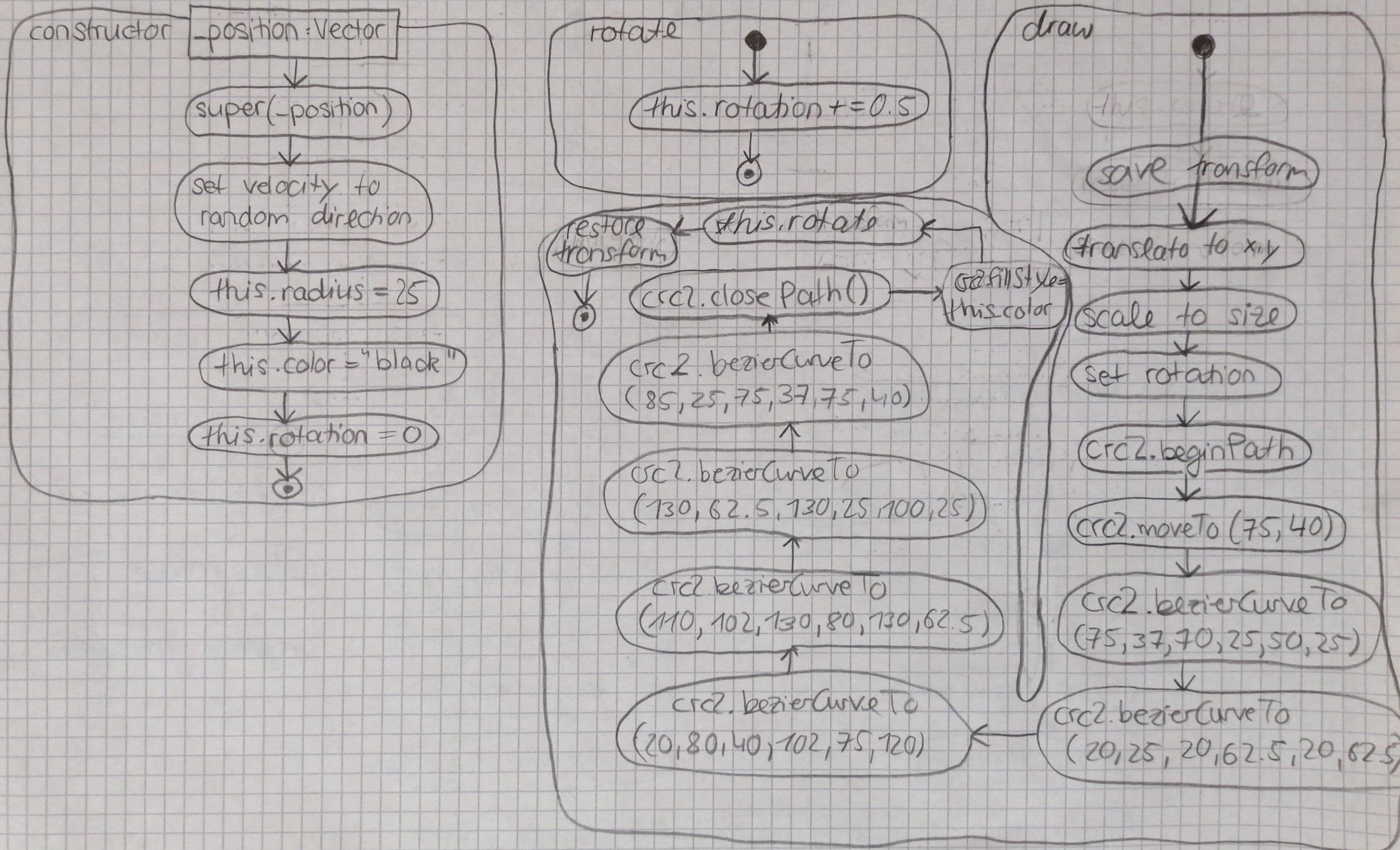
# Archivitätsdiagramm - Triangle



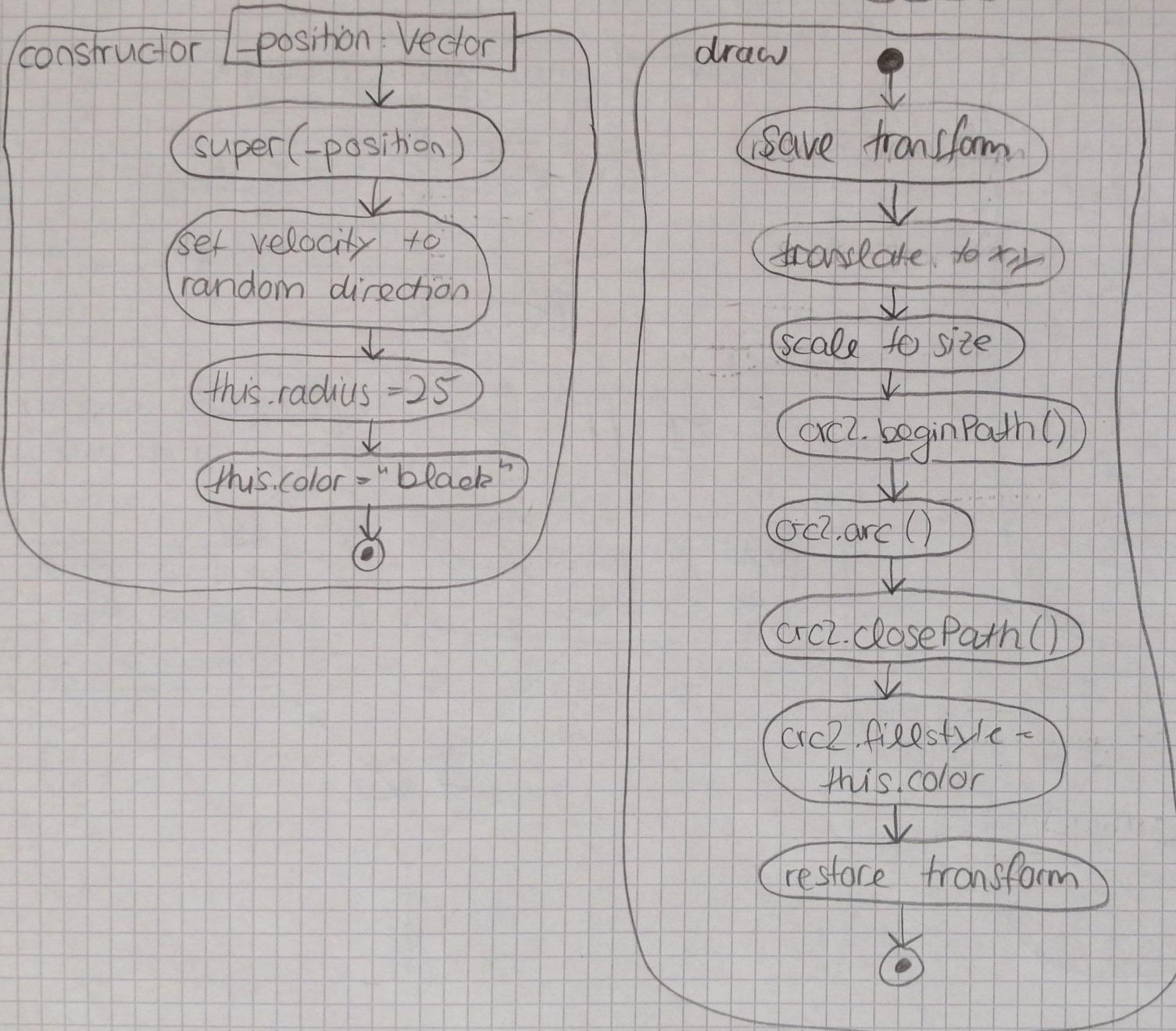
# Aktivitätsdiagramm - Star



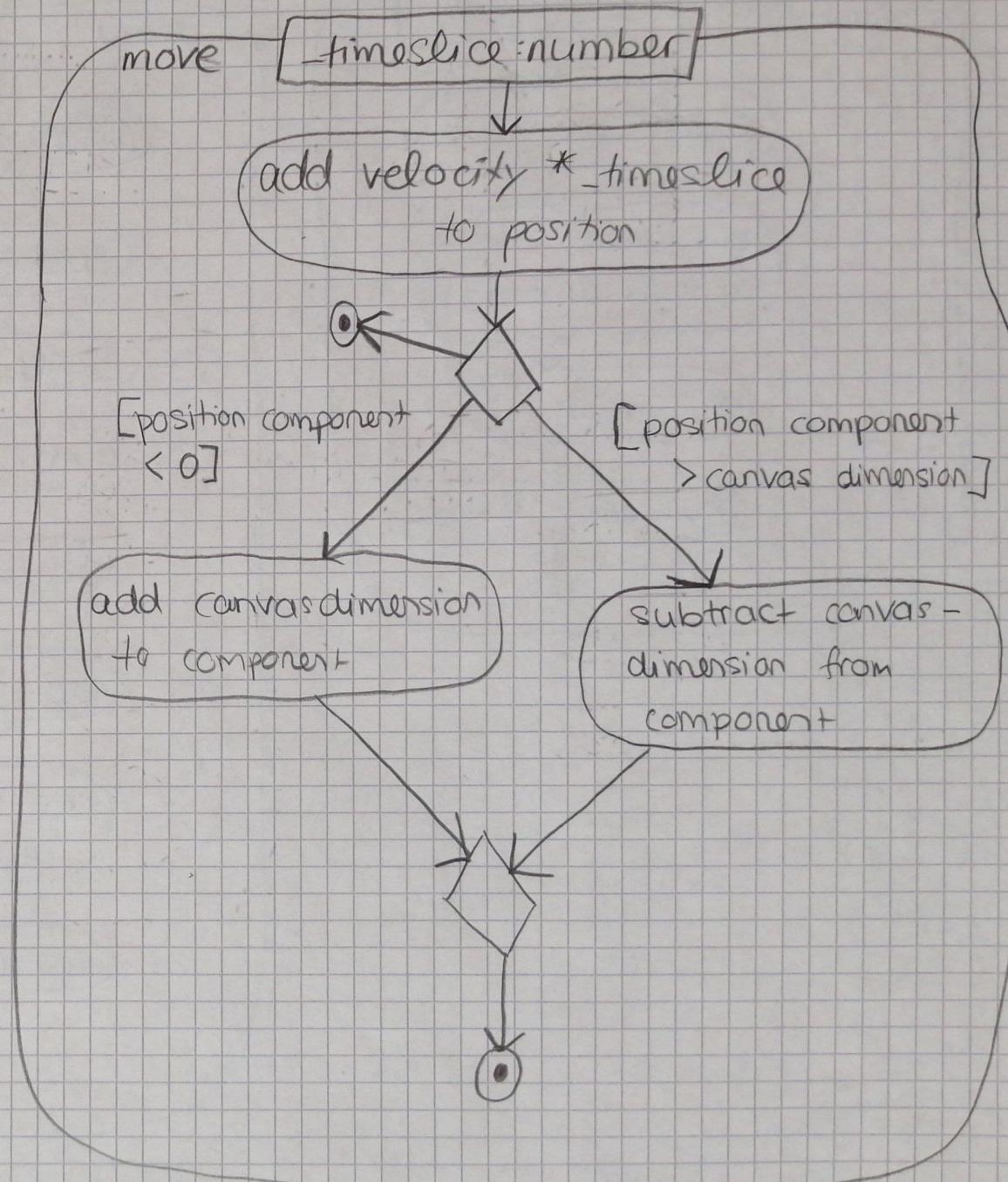
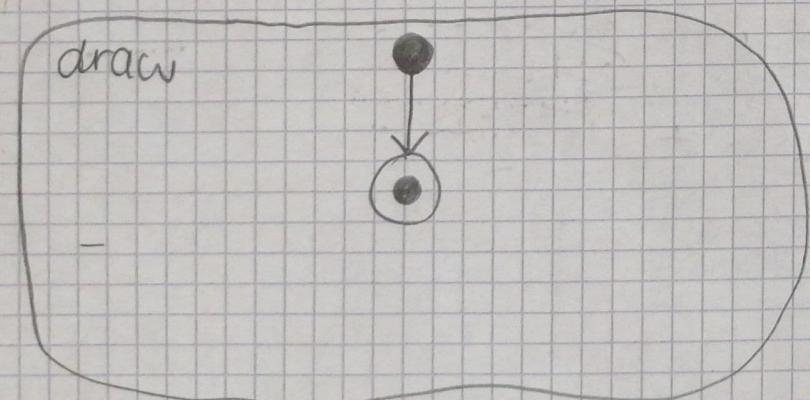
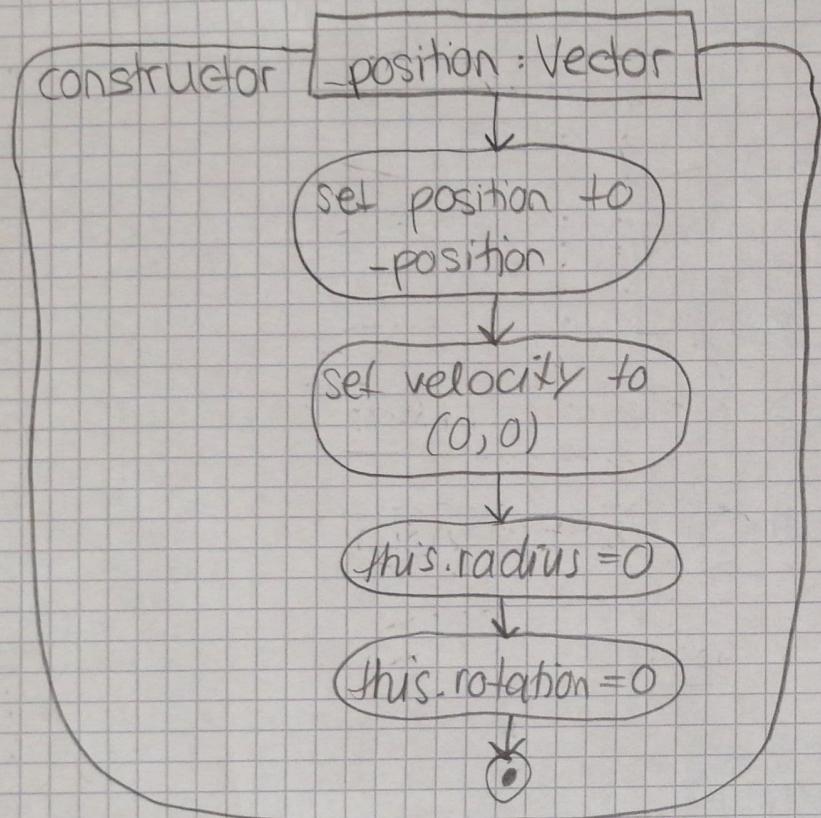
# Aktivitätsdiagramm - Heart

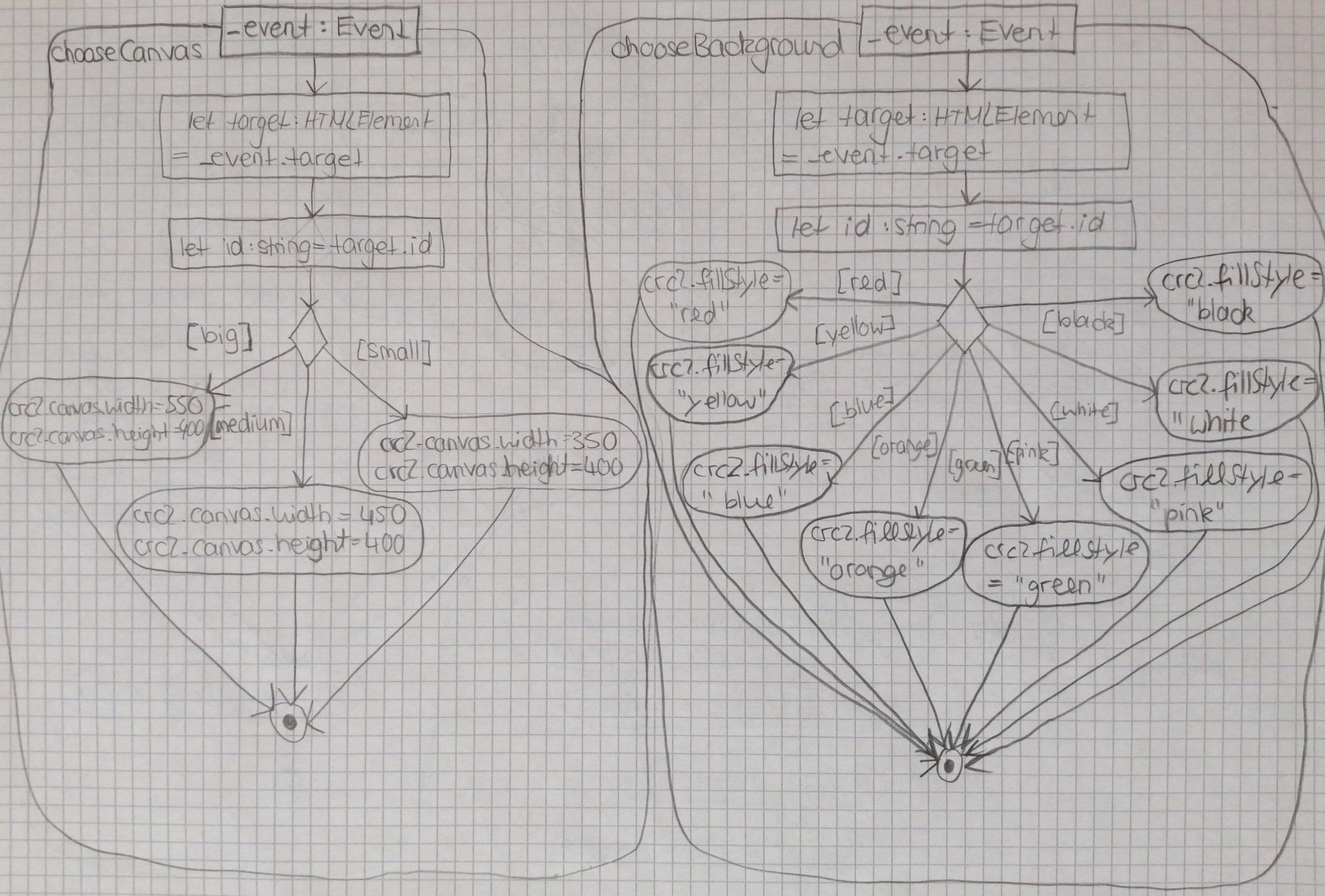


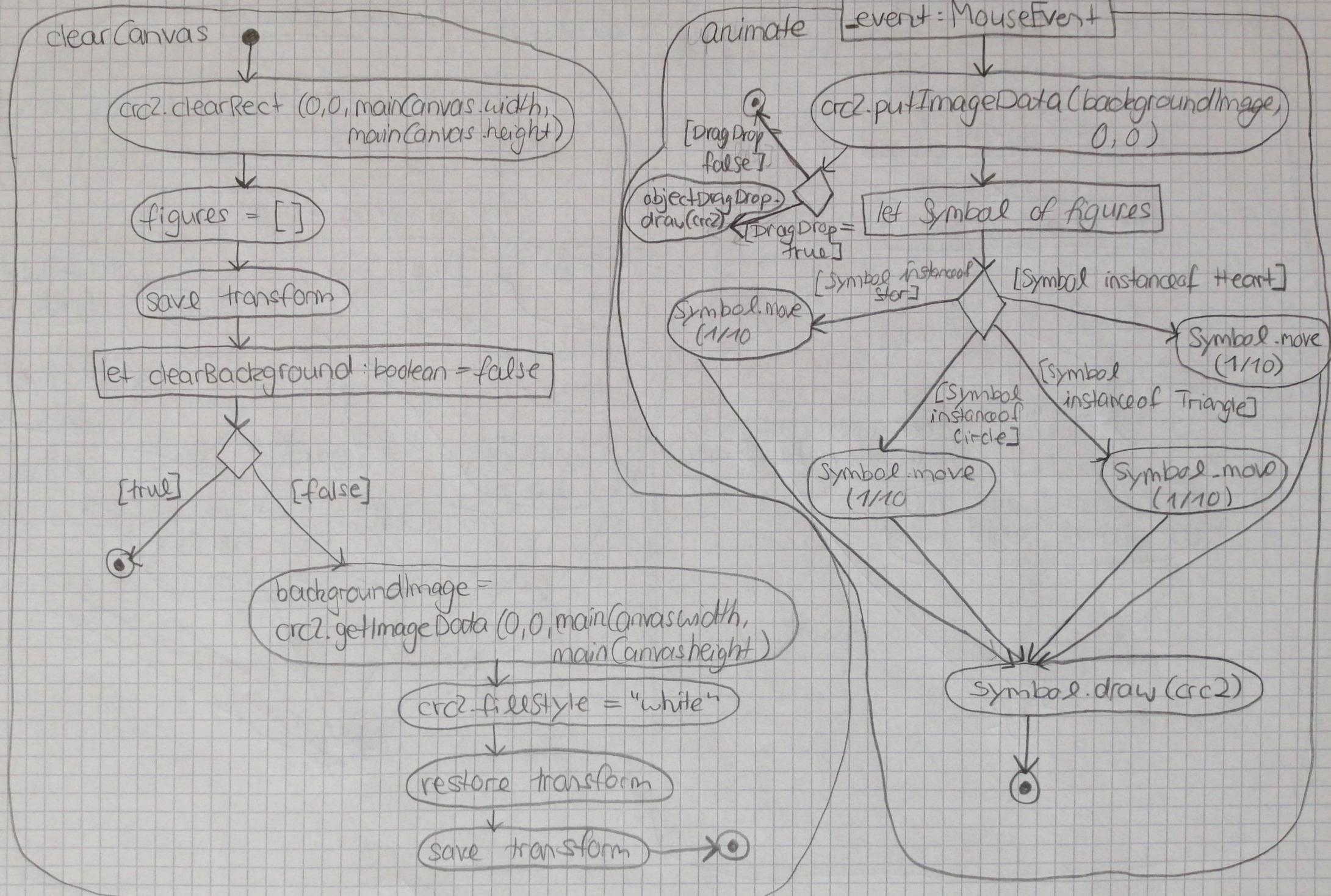
# Aktivitätsdiagramm – Circle



# Aktivitätsdiagramm Symbol







deleteSymbol

event : Mouse Event

```
let mousePosY: number = event.clientY  
let mousePosX: number = event.clientX
```

```
let canvasRect: DOMRect = mainCanvas.getBoundingClientRect()
```

```
let offsetX: number = mousePosX - canvasRect.left  
let offsetY: number = mousePosY - canvasRect.top
```

let figure of figures

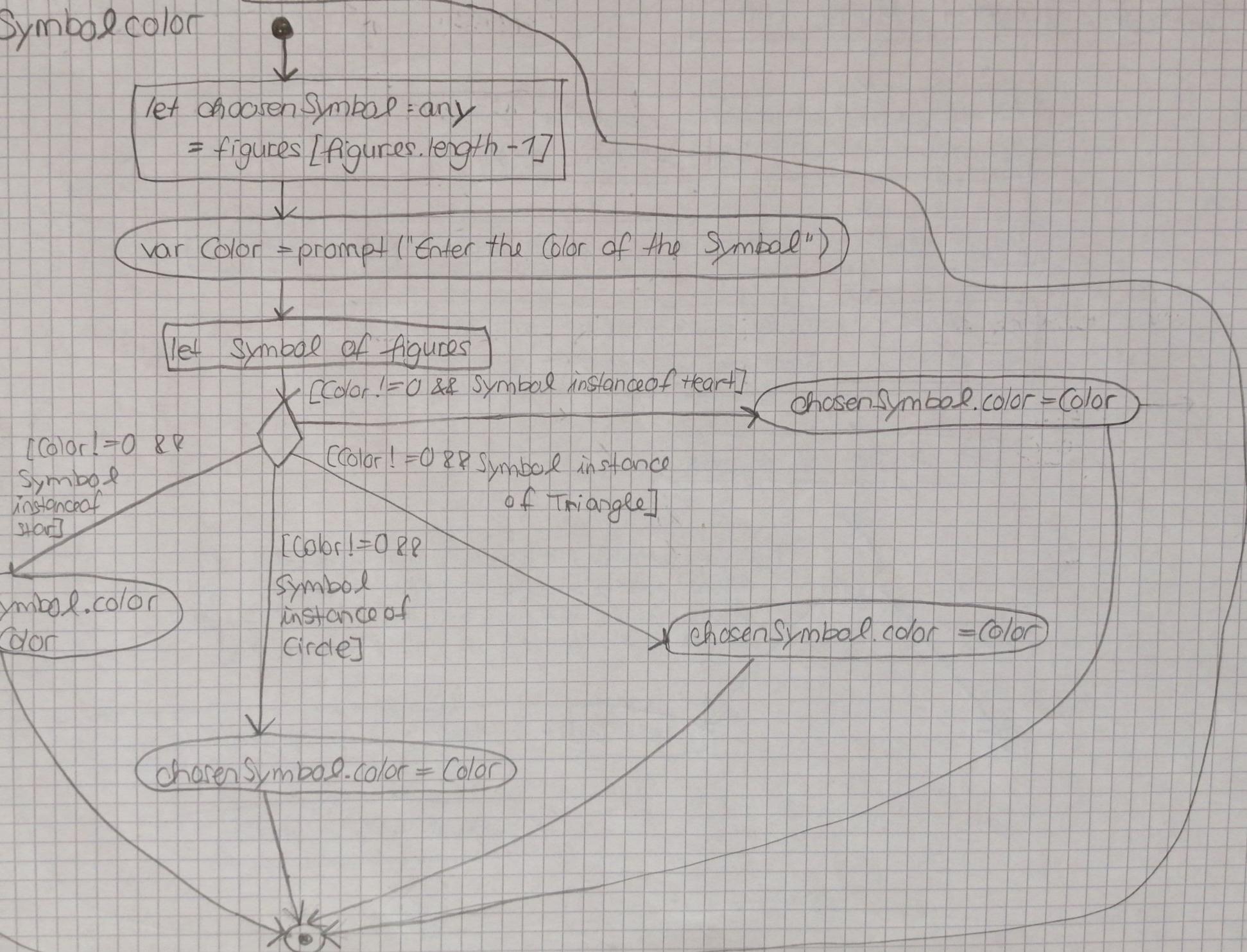
[else]

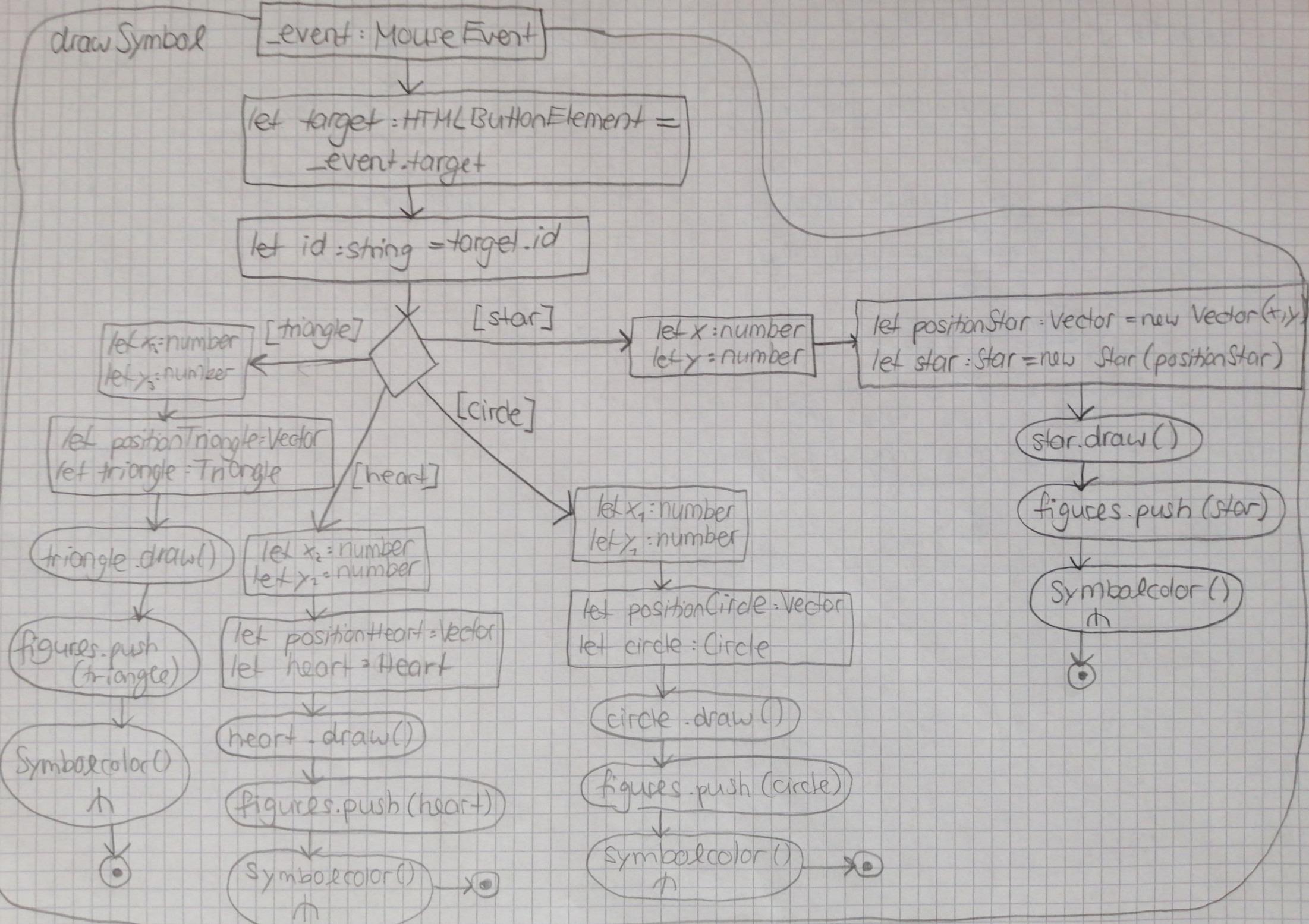
[ figure.position.x - figure.radius < offsetX &  
figure.position.x + figure.radius > offsetX &  
figure.position.y - figure.radius < offsetY &  
figure.position.y + figure.radius > offsetY ]

```
let index: number = figures.indexOf(figure)
```

```
figures.splice(index, 1)
```

## Symbol color





pushTitle -event: MouseEvent

let input: HTMLInputElement

let note: HTMLDivElement

note.innerHTML = input.value

clear Input value

push input value in  
SafeMagicalImage []

cancelTitle

let note: HTMLDivElement

note.innerText = ""

pickSymbol

event: MouseEvent

```
let mousePosY: number = event.clientY  
let mousePosX: number = event.clientX
```

```
let canvasRect: DOMRect = mainCanvas.getBoundingClientRect()
```

```
let offsetX: number = mousePosX - canvasRect.left  
let offsetY: number = mousePosY - canvasRect.top
```

let figur of figures

[else]

[figur.position.x - figur.radius < offsetX &&  
figur.position.x + figur.radius > offsetX &&  
figur.position.y - figur.radius < offsetY &&  
figur.position.y + figur.radius > offsetY ]

dragDrop = true

let index: number = figures.indexOf(figures)

figures.splice(index, 1)

ObjectDragDrop = figur

dragSymbol

-event: MouseEvent

[dragDrop = false]

[dragDrop = true]

object DragDrop.position.x = event.clientX - mainCanvas.  
getBoundingClientRect().left

object DragDrop.position.y = event.clientY - mainCanvas.  
getBoundingClientRect().top

placeSymbol

-event = Mouse Event

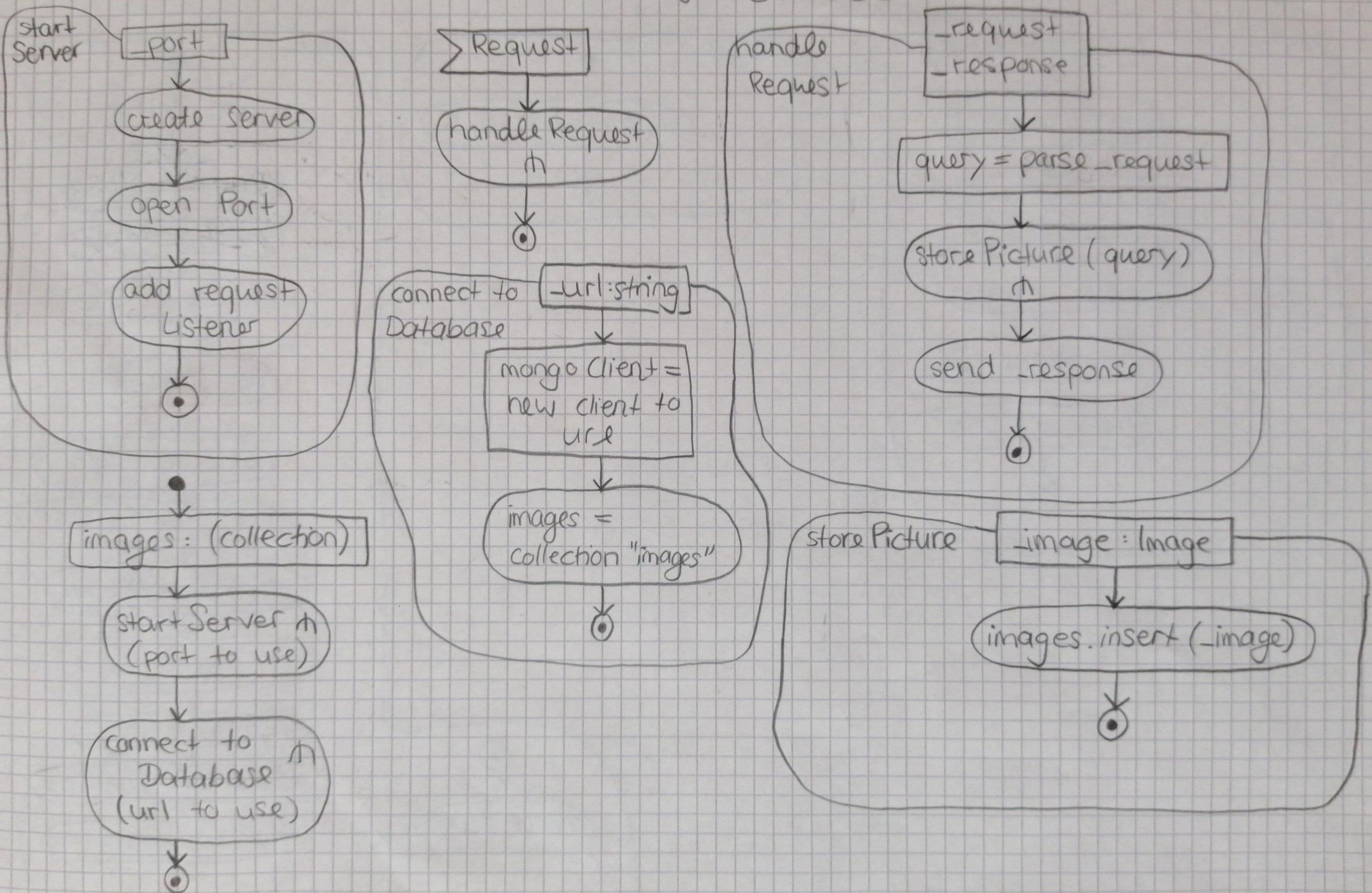
[dragDrop = false]

[dragDrop = true]

set dragDrop = false

figures.push (object Drag Drop)

# Architecturdiagramm - Server



Save Image

event: MouseEvent

```
let titles : HTMLDivElement  
let note = HTMLDivElement
```

titles.innerHTML = note.innerText

let PictureData = string

SafeMagicalImage.push(canvas.width, canvas.height)

SafeMagicalImage.push(SafeBackground color)

[PictureData = 0]

[PictureData != null]

B

B

SafeMagicalImage.push("heart")

SafeMagicalImage.push (PictureData)

let figure of figures

[figure instanceof heart]

[figure instanceof triangle]

SafeMagicalImage.push ("triangle")

[figure instanceof

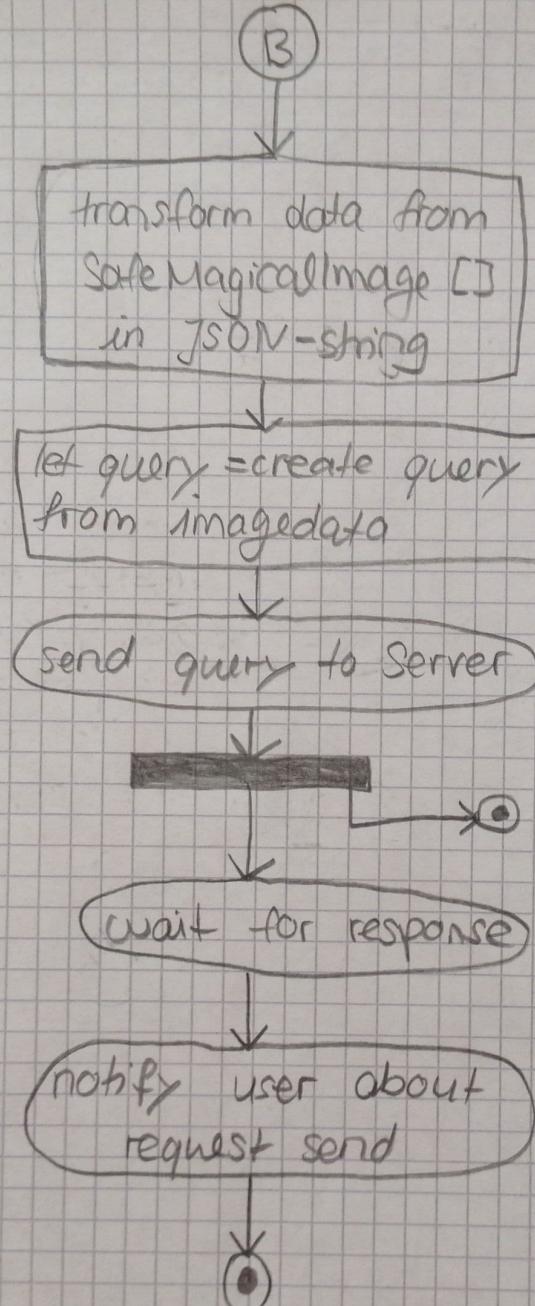
star]

[Figure  
instanceof  
circle]

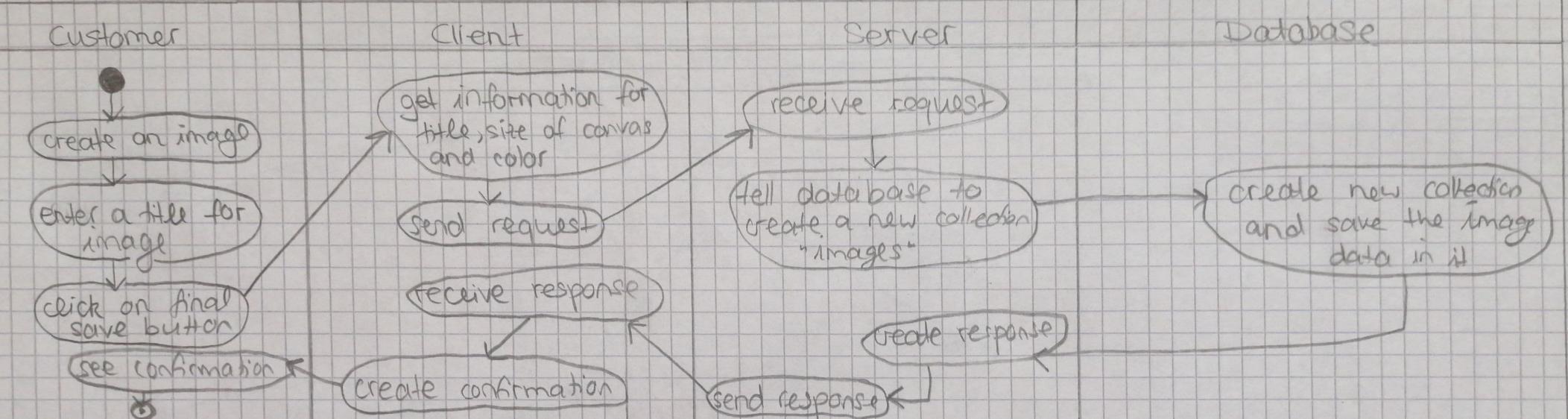
SafeMagicalImage.push ("star")

SafeMagicalImage.push ("circle")

saveImage



### Save Image



### Restore Image

