08_Canvas: Scribble

Galaxy S9 360 × 740 px
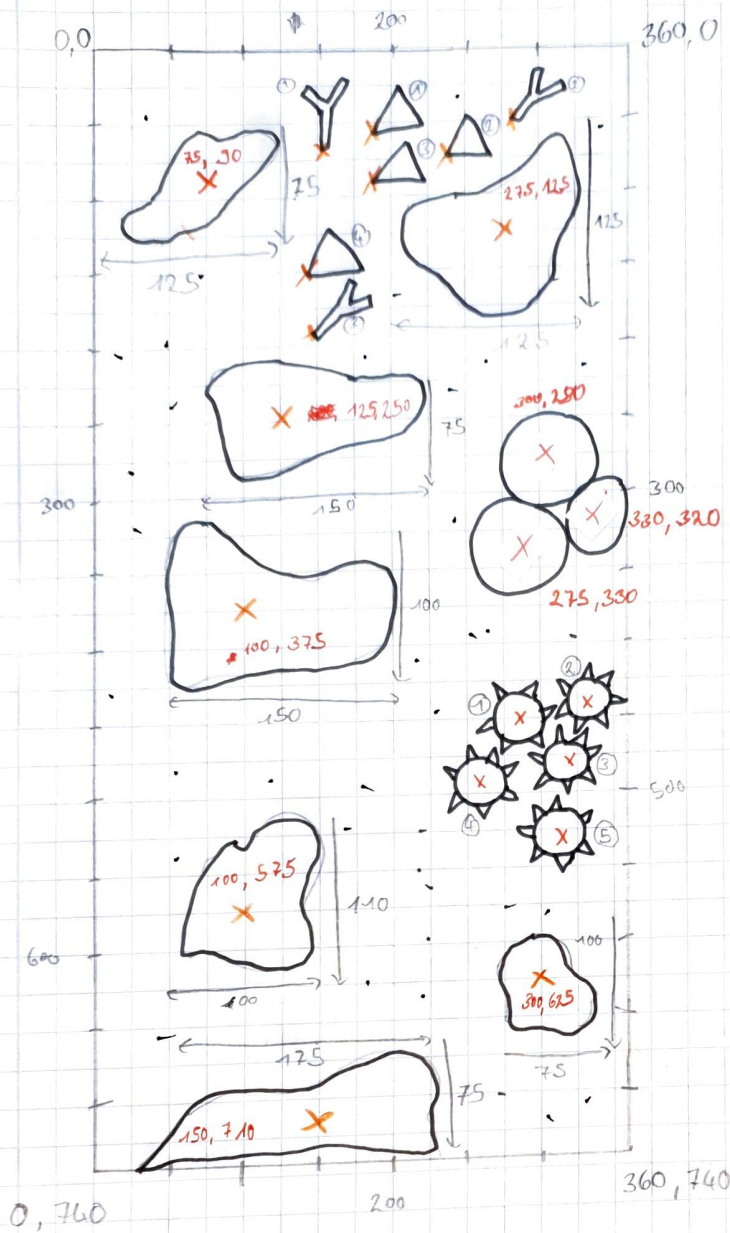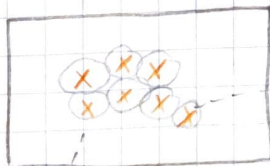
0,0 — 200 — 360,0

75,90

275,125

125

75

125,250

300,280

300

330,320

275,330

100,375

100,575

110

300,625

100

150,710

125

75

300

600

0,740 — 200 — 360,740

Blutstropfen

0,0 — 0,360

0,740 — 360,70

particles randomly placed in area

red

Zellen

white

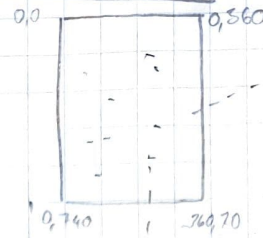Gradient purple blue

Antikörper

Y --- blue

Antikörper 1 Y 180,60

Antikörper 2 Y 240,75

Antikörper 3 Y 150,20

Killerzellen

△ -- green

Killerzelle 1 △ 190,60

Killerzelle 2 △ 230,75

Killerzelle 3 △ 190,80

Killerzelle 4 △ 150,150

Lungengewebe

Gradient a = 0,7 → a = 0,3

Particles randomly placed in area

Viren

✳ --- orange

Virus 1 ✳ 280, 450

Virus 2 ✳ 340, 440

Virus 3 ✳ 320, 480

Virus 4 ✳ 270, 490

Virus 5 ✳ 310, 530

08_Canvas : Activity Diagram

Install load listener → ●

load → **handle.Load** → ⊙

Vector
x : number
y : number

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handleLoad

● → get rendering Context → draw Background → draw Lungen-gewebe → draw Viren → draw Killerzellen → draw Antikorper → draw Zellen → draw Bluttropfen → ●

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drawZellen | position : Vector

position : Vector → r1 : number = 25 → set color white → save transform → translate to position → draw full circle with r1 → restore transform → ⊙

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draw Lungen-gewebe

- position : Vector
- size : Vector

nParticles : number
radius Particle : number = 30
particle = path with full circle with radius particle
gradient : radial with a = 0,7 → a = 0,5

→ save transform → ◇ → ●

[draw nParticles]

x : number = (random - 0,5) · size.X
y : number = random · size.y

→ translate to X, Y → draw particle

draw Blutstropfen

position: vector

- n Particles: number
- radius/Particle, number=5
- Particle: path with full circle with radius Particle

→ save transform
→ translate to position
→ draw full circles with vr
→ restore transform

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draw Killerzellen

position: Vector

- height: number=20
- width: number=20

→ set color green
→ save transform
→ translate to position
→ draw triangle with height and width
→ restore transform

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draw Viren

position: Vector

- r = number = 30

→ set color orange
→ save transform
→ translate to position
→ draw full circle with r
→ restore transform