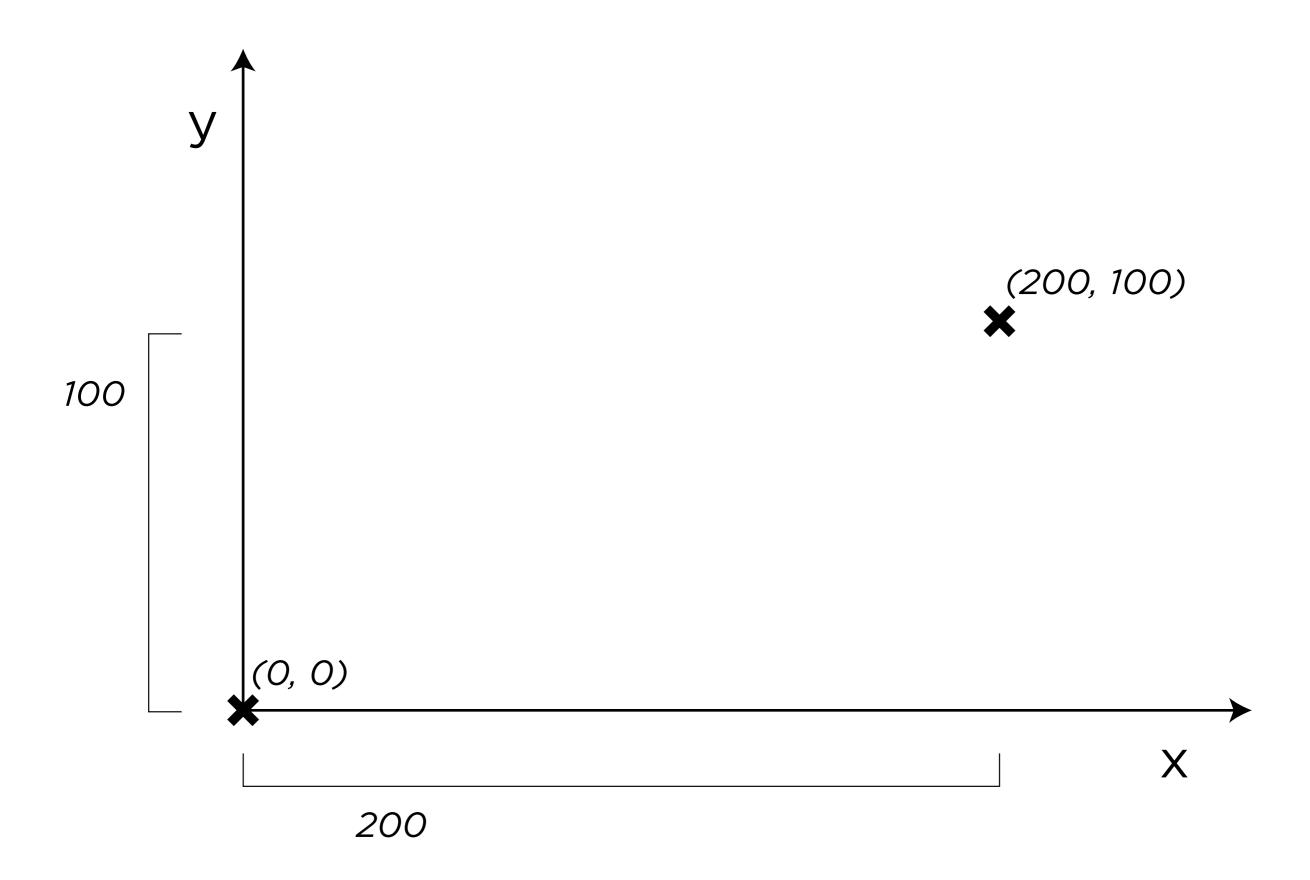
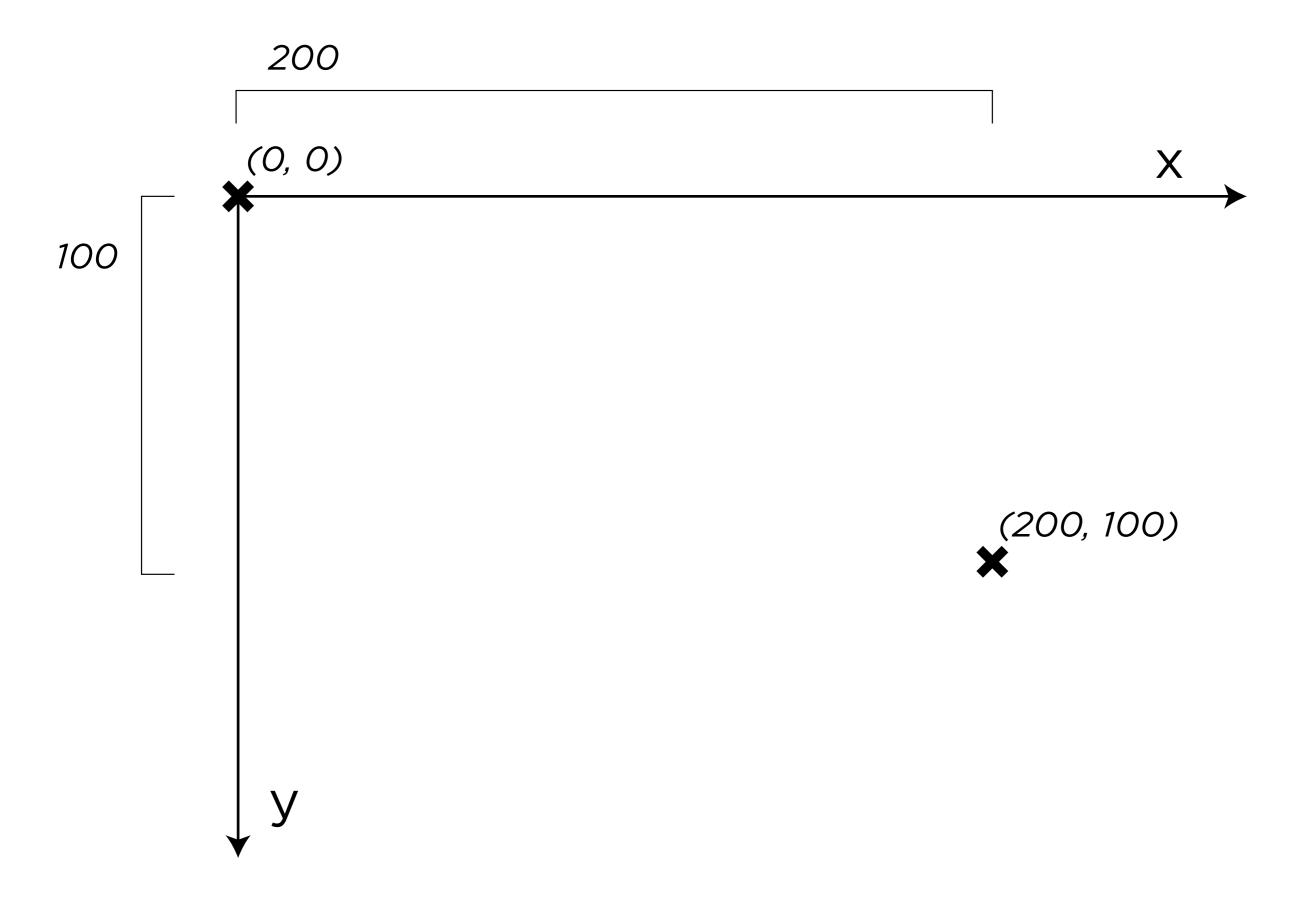
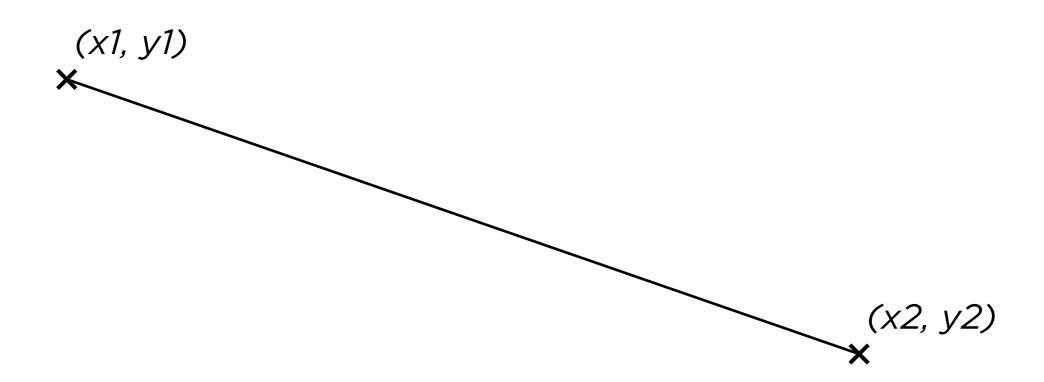
## **Gymnasium**



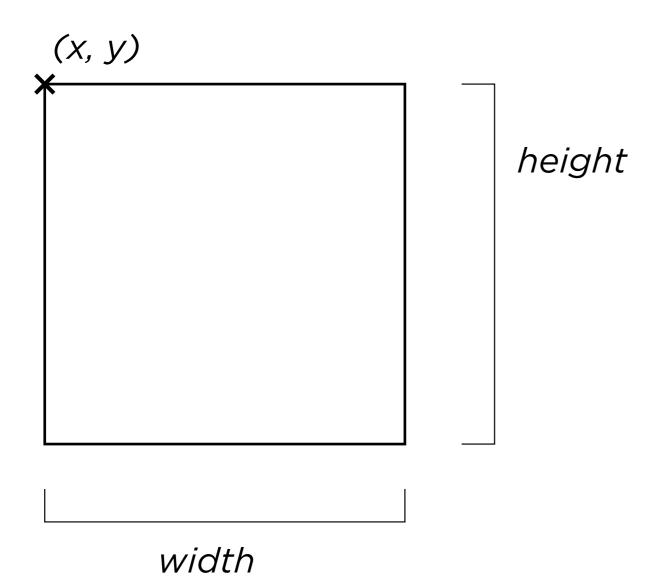
### **Processing**



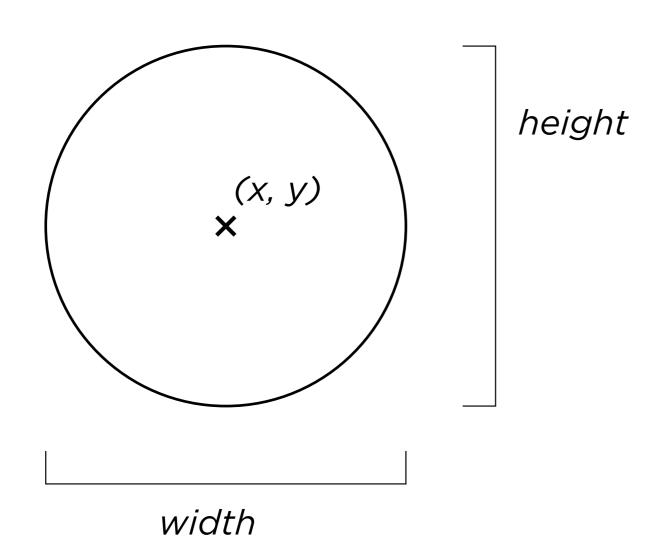
## line(x1, y1, x2, y2);



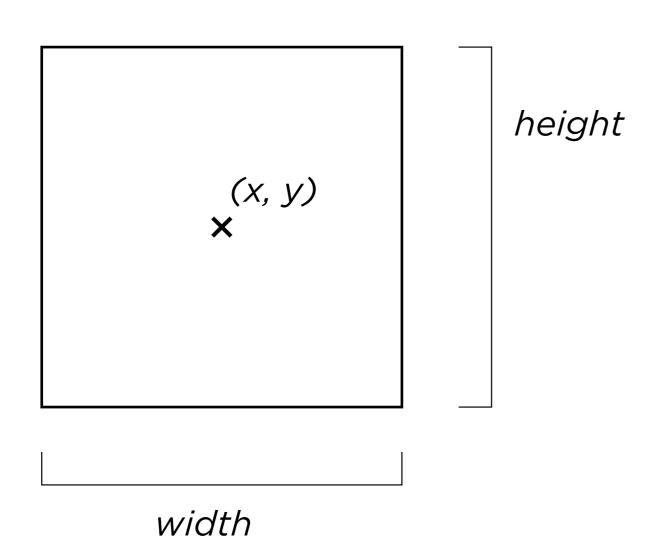
# rect(x, y, width, height);



## ellipse(x, y, width, height);



# rectMode(CENTER); rect(x, y, width, height);



#### Grundtypen

int Ganze Zahlen

*-1 -10 1 2 1337* 

float Kommazahlen

0.1235 0.4 -123.3

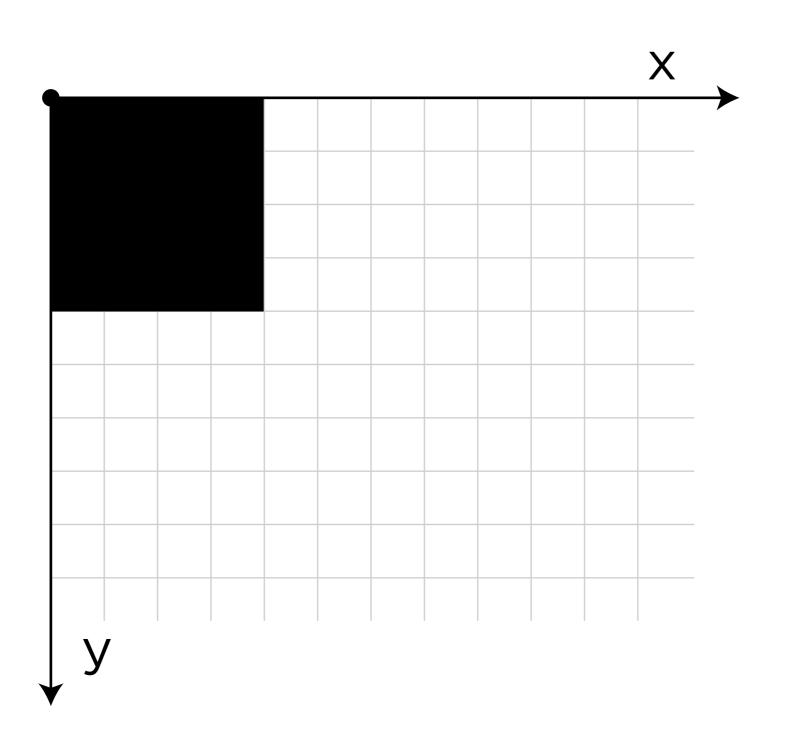
**boolean** Wahr oder Falsch

true false

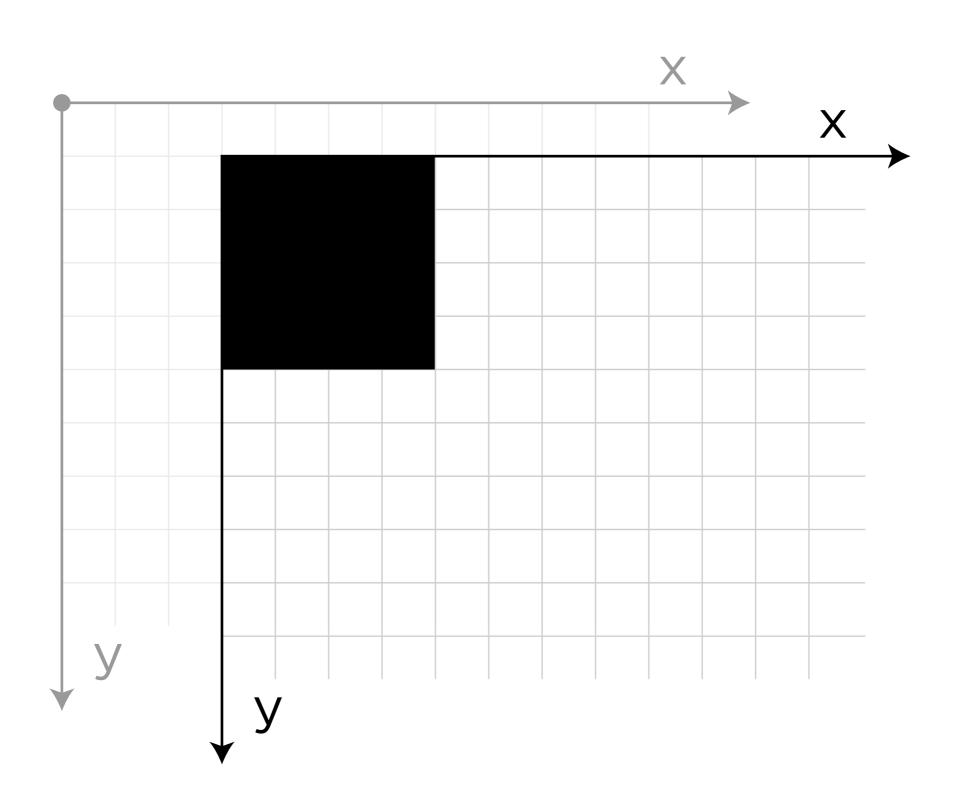
**String** Zeichenketten

"Otl" "Adrian" "John"

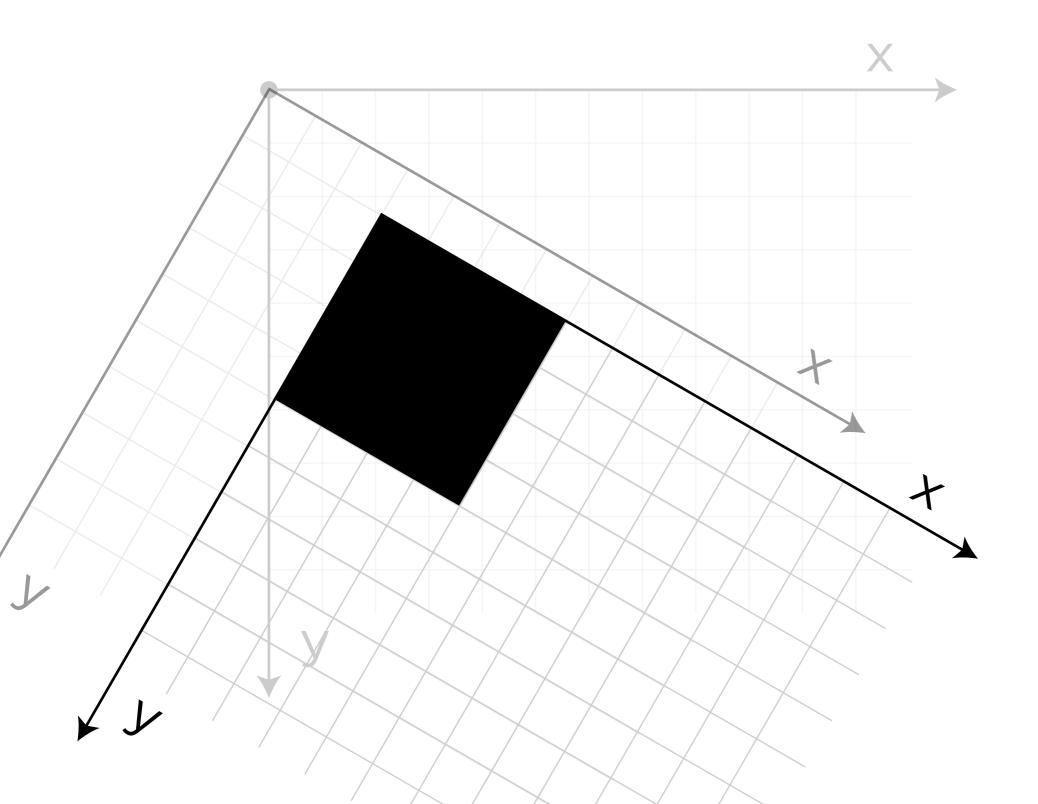
rect(0, 0, 40, 40);



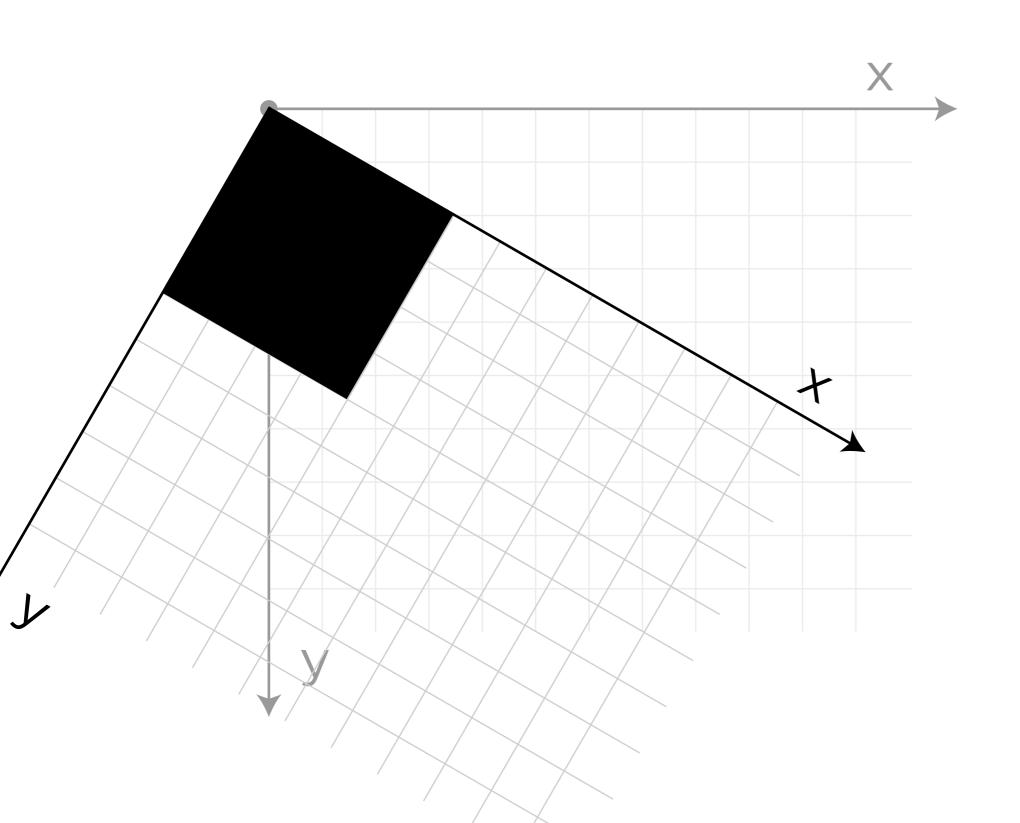
translate(30, 10); rect(0, 0, 40, 40);



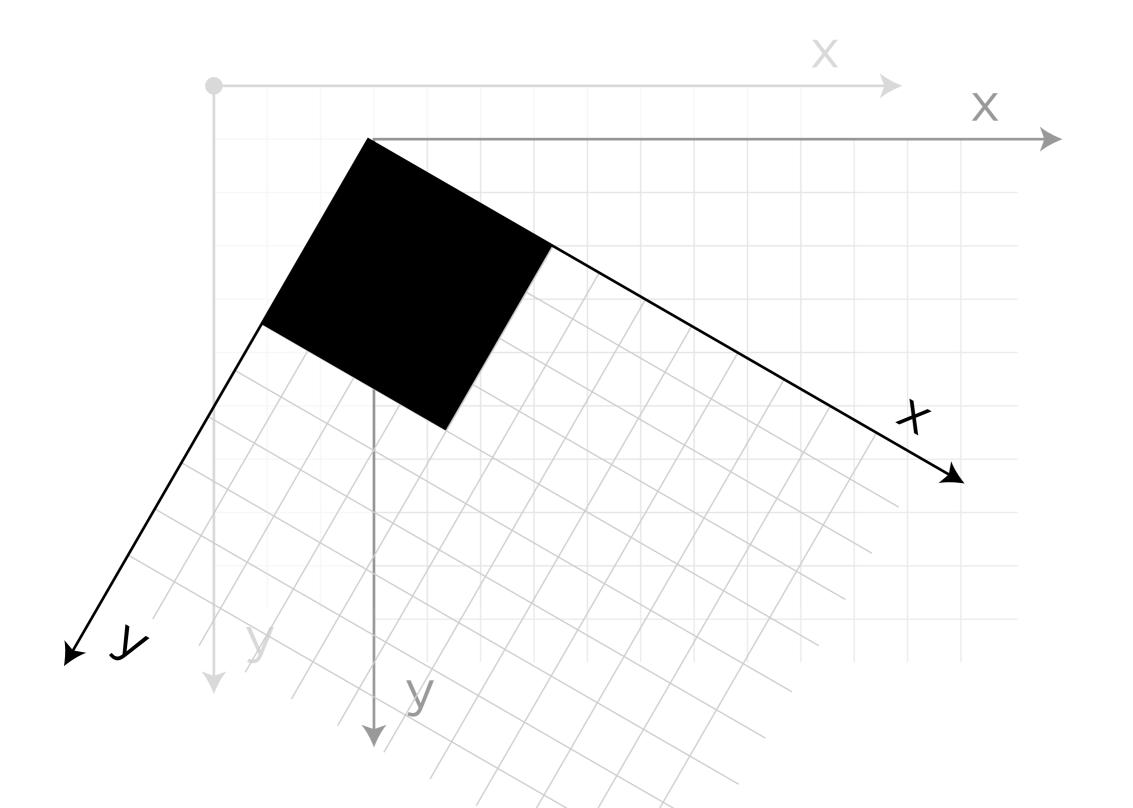
rotate( radians(30) ); translate(30, 10); rect(0, 0, 40, 40);

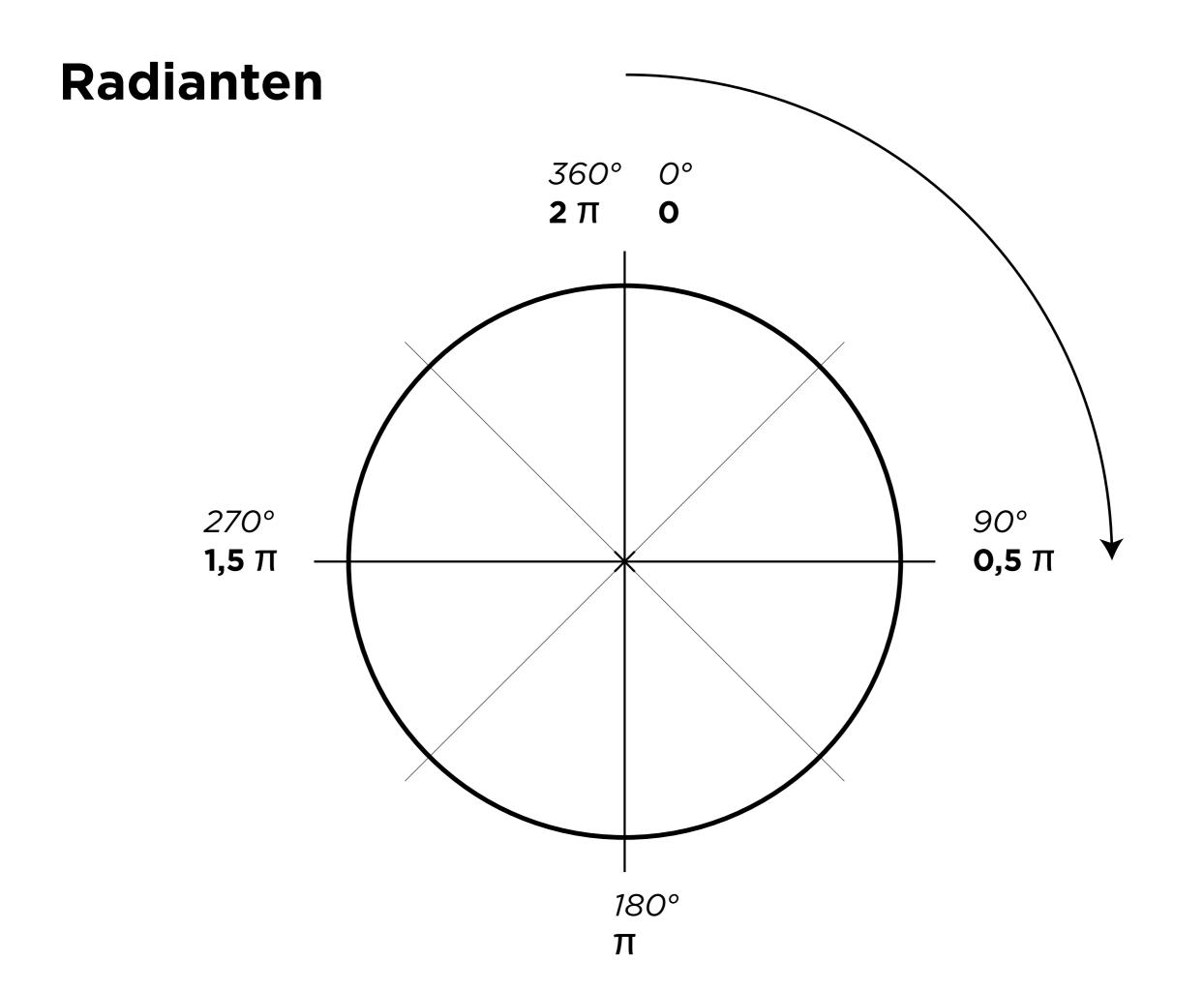


rotate( radians(30) );
rect(0, 0, 40, 40);



```
translate(30, 10);
rotate(radians(30));
rect(0, 0, 40, 40);
```





#### **Color RGB**

colorMode(*RGB*); fill(50, 190, 204); rect(0, 0, 200, 200);

fill(red, green, blue);

#### **Color HSB**

colorMode(*HSB*); fill(50, 190, 204); rect(0, 0, 200, 200);

fill(hue, saturation, brightness);

#### For Schleife

```
Bedingung
                         Zählen
    Start
for(int i = 0; i < 20; i++) {
   println("Hallo");
   println(i);
```

#### For Loop

```
for(int i = 0; i < 20; i++) {
    println(i);
}

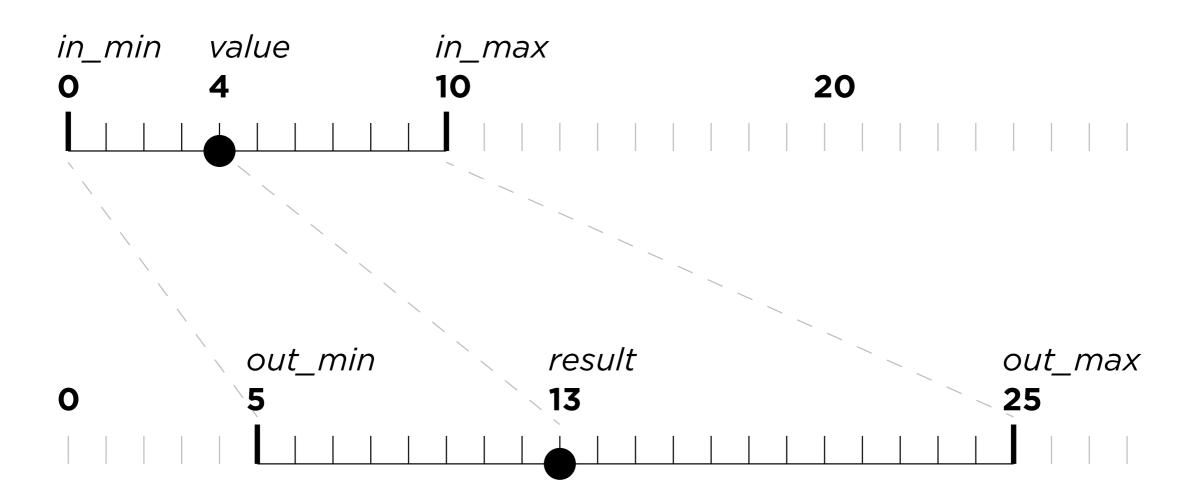
for(int i = 0; i < particles.size(); i++) {
    Particle p = particles.get(i);
    p.draw();
}</pre>
```

#### Vergleiche

```
a kleiner b
a <
          a größer b
          a gleich b
          a ungleich b
a !=
          a gößer gleich b
a >= b
          a kleiner gleich b
a <= b
```

#### Abkürzungen

map(value, in\_min, in\_max, out\_min, out\_max);
float result = map(4, 0, 10, 5, 25);



#### **ArrayList<Particle>** particles

