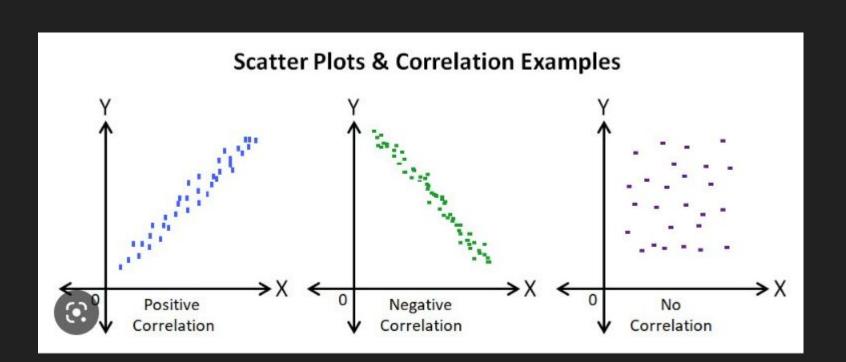
Linear Regression

lesson 7

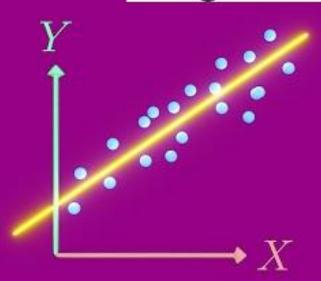
Try out the linear regression program.

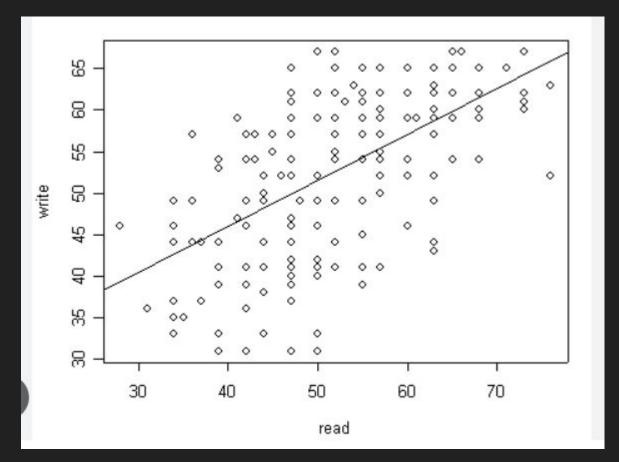
```
ar data = []
unction setup() {
createCanvas(400, 400);
background(51);
unction mousePressed(){
var x = map (mouseX, 0, width, 0, 1);
var y = map (mouseY, 0, height, 1, 0);
var point = createVector(x, y);
data.push(point):
unction draw() {
background(220);
for(var i =0; i < data.length; i++){</pre>
  var x = map(data[i].x, 0, 1, 0, width);
  var y = map(data[i].y, 0,1,height, 0);
   fill(10);
```

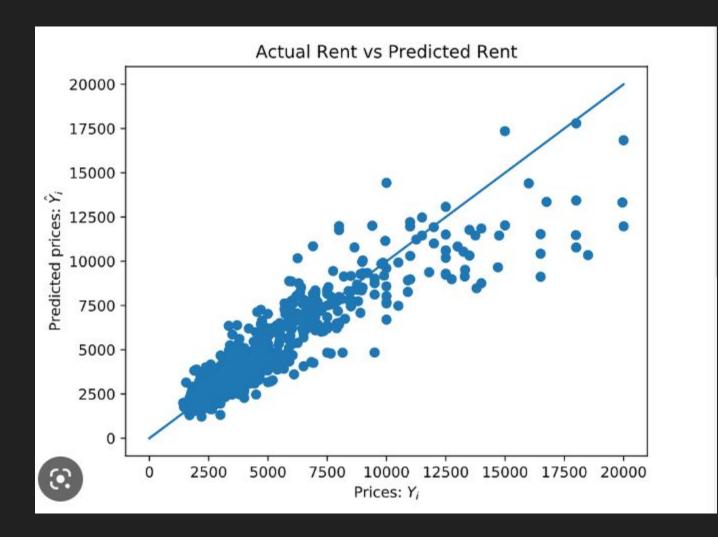
Can you console.log the equation for the line?



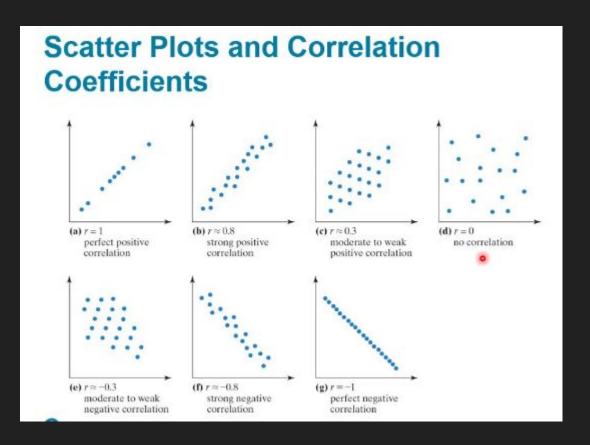
Linear Regression







Strong vs Weak Correlation



	A	В	С	D
1	Name	Body_kg	Brain_g	
2	Mountain beaver	1.35	8.1	
3	Cow	465	423	
4	Grey wolf	36.33	119.5	
5	Goat	27.66	115	
6	Guinea pig	1.04	5.5	
7	Asian elephant	2547	4603	
8	Donkey	187.1	419	
9	Horse	521	655	
10	Potar monkey	10	115	
11	Cat	3.3	25.6	
12	Giraffe	529	680	
13	Gorilla	207	406	
14	Human	62	1320	
15	Rhesus monkey	6.8	179	
16	Kangaroo	35	56	
17	Golden hamster	0.12	1	
18	Mouse	0.023	0.4	
19	Rabbit	2.5	12.1	
20	Chara	FF F	475	

