

Čemu svi ti brojevi?

Upotreba numeričkih podataka u
političkim naukama

Možemo da opišemo neku populaciju

Možemo da opišemo neku populaciju

Kako ste uradili test?



Broj bodova	Frequency	Percent	Valid Percent	Cumulative Percent
.00	1	.8	1.1	1.1
3.00	3	2.4	3.4	4.5
3.50	3	2.4	3.4	8.0
4.00	4	3.2	4.5	12.5
4.50	1	.8	1.1	13.6
5.50	4	3.2	4.5	18.2
6.50	2	1.6	2.3	20.5
7.00	4	3.2	4.5	25.0
7.50	2	1.6	2.3	27.3
8.00	2	1.6	2.3	29.5
8.50	3	2.4	3.4	33.0
9.00	3	2.4	3.4	36.4
9.50	2	1.6	2.3	38.6
10.00	5	4.0	5.7	44.3
10.50	3	2.4	3.4	47.7
11.00	4	3.2	4.5	52.3
12.00	2	1.6	2.3	54.5
12.50	2	1.6	2.3	56.8
13.00	3	2.4	3.4	60.2
14.00	4	3.2	4.5	64.8
14.50	1	.8	1.1	65.9
15.00	1	.8	1.1	67.0
16.00	1	.8	1.1	68.2
16.50	1	.8	1.1	69.3
17.00	2	1.6	2.3	71.6
18.00	3	2.4	3.4	75.0
18.50	1	.8	1.1	76.1
19.00	3	2.4	3.4	79.5
20.00	1	.8	1.1	80.7
20.50	1	.8	1.1	81.8
22.50	2	1.6	2.3	84.1
23.00	2	1.6	2.3	86.4
23.50	1	.8	1.1	87.5
24.00	1	.8	1.1	88.6
25.00	3	2.4	3.4	92.0
25.50	1	.8	1.1	93.2
26.00	2	1.6	2.3	95.5
27.00	3	2.4	3.4	98.9
28.00	1	.8	1.1	100.0
Total	88	69.8	100.0	
99.00	38	30.2		
	126	100.0		

Broj bodova	Frequency	Percent	Valid Percent	Cumulative Percent
.00	1	.8	1.1	1.1
3.00	3	2.4	3.4	4.5
3.50	3	2.4	3.4	8.0
4.00	4	3.2	4.5	12.5
4.50	1	.8	1.1	13.6
5.50	4	3.2	4.5	18.2
6.50	2	1.6	2.3	20.5
7.00	4	3.2	4.5	25.0
7.50	2	1.6	2.3	27.3
8.00	2	1.6	2.3	29.5
8.50	3	2.4	3.4	33.0
9.00	3	2.4	3.4	36.4
9.50	2	1.6	2.3	38.6
10.00	5	4.0	5.7	44.3
10.50	3	2.4	3.4	47.7
11.00	4	3.2	4.5	52.3
12.00	2	1.6	2.3	54.5
12.50	2	1.6	2.3	56.8
13.00	3	2.4	3.4	60.2
14.00	4	3.2	4.5	64.8
14.50	1	.8	1.1	65.9
15.00	1	.8	1.1	67.0
16.00	1	.8	1.1	68.2
16.50	1	.8	1.1	69.3
17.00	2	1.6	2.3	71.6
18.00	3	2.4	3.4	75.0
18.50	1	.8	1.1	76.1
19.00	3	2.4	3.4	79.5
20.00	1	.8	1.1	80.7
20.50	1	.8	1.1	81.8
22.50	2	1.6	2.3	84.1
23.00	2	1.6	2.3	86.4
23.50	1	.8	1.1	87.5
24.00	1	.8	1.1	88.6
25.00	3	2.4	3.4	92.0
25.50	1	.8	1.1	93.2
26.00	2	1.6	2.3	95.5
27.00	3	2.4	3.4	98.9
28.00	1	.8	1.1	100.0
Total	88	69.8	100.0	
99.00	38	30.2		
	126	100.0		

Statistics

Bodovi

N	Valid	88
	Missing	38

Broj onih koji su izašli na test

Broj onih koji su **nisu** izašli na test



Broj bodova	Frequency	Percent	Valid Percent	Cumulative Percent
.00	1	.8	1.1	1.1
3.00	3	2.4	3.4	4.5
3.50	3	2.4	3.4	8.0
4.00	4	3.2	4.5	12.5
4.50	1	.8	1.1	13.6
5.50	4	3.2	4.5	18.2
6.50	2	1.6	2.3	20.5
7.00	4	3.2	4.5	25.0
7.50	2	1.6	2.3	27.3
8.00	2	1.6	2.3	29.5
8.50	3	2.4	3.4	33.0
9.00	3	2.4	3.4	36.4
9.50	2	1.6	2.3	38.6
10.00	5	4.0	5.7	44.3
10.50	3	2.4	3.4	47.7
11.00	4	3.2	4.5	52.3
12.00	2	1.6	2.3	54.5
12.50	2	1.6	2.3	56.8
13.00	3	2.4	3.4	60.2
14.00	4	3.2	4.5	64.8
14.50	1	.8	1.1	65.9
15.00	1	.8	1.1	67.0
16.00	1	.8	1.1	68.2
16.50	1	.8	1.1	69.3
17.00	2	1.6	2.3	71.6
18.00	3	2.4	3.4	75.0
18.50	1	.8	1.1	76.1
19.00	3	2.4	3.4	79.5
20.00	1	.8	1.1	80.7
20.50	1	.8	1.1	81.8
22.50	2	1.6	2.3	84.1
23.00	2	1.6	2.3	86.4
23.50	1	.8	1.1	87.5
24.00	1	.8	1.1	88.6
25.00	3	2.4	3.4	92.0
25.50	1	.8	1.1	93.2
26.00	2	1.6	2.3	95.5
27.00	3	2.4	3.4	98.9
28.00	1	.8	1.1	100.0
Total	88	69.8	100.0	
99.00	38	30.2		
	126	100.0		

Statistics

Bodovi

N	Valid	88
	Missing	38

Broj onih koji su izašli na test

Broj onih koji su **nisu** izašli na test

Descriptive Statistics

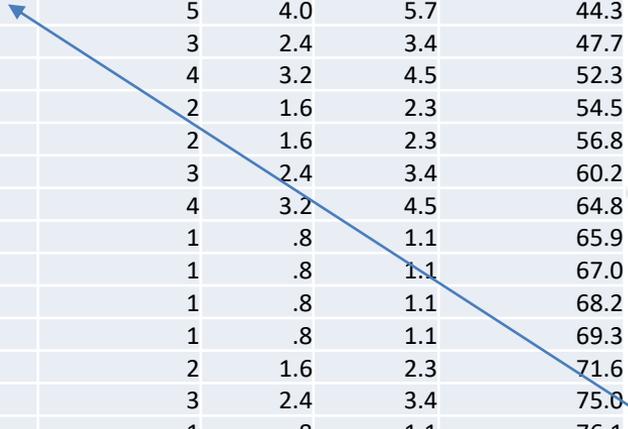
	N	Minimum	Maximum	Mean	Std. Deviation
Bodovi	88	.00	28.00	12.9659	7.30957
Valid N (listwise)	88				

Aritmetička sredina

Najgori rezultat

Najgori rezultat

Modus: najčešća vrijednost



Broj bodova	Frequency	Percent	Valid Percent	Cumulative Percent
.00	1	.8	1.1	1.1
3.00	3	2.4	3.4	4.5
3.50	3	2.4	3.4	8.0
4.00	4	3.2	4.5	12.5
4.50	1	.8	1.1	13.6
5.50	4	3.2	4.5	18.2
6.50	2	1.6	2.3	20.5
7.00	4	3.2	4.5	25.0
7.50	2	1.6	2.3	27.3
8.00	2	1.6	2.3	29.5
8.50	3	2.4	3.4	33.0
9.00	3	2.4	3.4	36.4
9.50	2	1.6	2.3	38.6
10.00	5	4.0	5.7	44.3
10.50	3	2.4	3.4	47.7
11.00	4	3.2	4.5	52.3
12.00	2	1.6	2.3	54.5
12.50	2	1.6	2.3	56.8
13.00	3	2.4	3.4	60.2
14.00	4	3.2	4.5	64.8
14.50	1	.8	1.1	65.9
15.00	1	.8	1.1	67.0
16.00	1	.8	1.1	68.2
16.50	1	.8	1.1	69.3
17.00	2	1.6	2.3	71.6
18.00	3	2.4	3.4	75.0
18.50	1	.8	1.1	76.1
19.00	3	2.4	3.4	79.5
20.00	1	.8	1.1	80.7
20.50	1	.8	1.1	81.8
22.50	2	1.6	2.3	84.1
23.00	2	1.6	2.3	86.4
23.50	1	.8	1.1	87.5
24.00	1	.8	1.1	88.6
25.00	3	2.4	3.4	92.0
25.50	1	.8	1.1	93.2
26.00	2	1.6	2.3	95.5
27.00	3	2.4	3.4	98.9
28.00	1	.8	1.1	100.0
Total	88	69.8	100.0	
99.00	38	30.2		
	126	100.0		

Statistics

Bodovi

N	Valid	88
	Missing	38

Broj onih koji su izašli na test

Broj onih koji su nisu izašli na test

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Bodovi	88	.00	28.00	12.9659	7.30957
Valid N (listwise)	88				

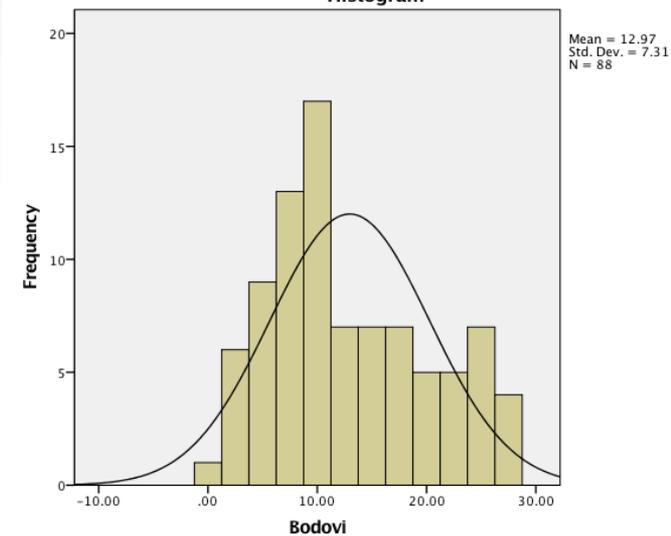
Aritmetička sredina

Najgori rezultat

Najgori rezultat

Modus: najčešća vrijednost

Histogram



Možemo da opišemo odnos između više varijabli

Ko je uradio bolje?

Koliko bolje?

Generacija 2017.

Vs.

Generacija 2018.

Međunarodni odnosi – politikologija

Vs.

Socijalna politika - socijalni rad

Muškarci Vs. žene

Generacija 2017.

Vs.

Generacija 2018.

Poređenje

Generacija 2017.

Statistics		
Broj		
N	Valid	104
	Missing	30

Descriptive Statistics

	N	Minimum	Maximum	Mean
Broj	104	.5	24.5	9.490
Valid N (listwise)	104			

Modus 3.5

Generacija 2018.

Statistics		
Bodovi		
N	Valid	88
	Missing	38

Descriptive Statistics

	N	Minimum	Maximum	Mean
Bodovi	88	.00	28.00	12.9659
Valid N (listwise)	88			

Modus 10

Međunarodni-politikologija

Vs.

Socijalna politika-socijalni rad

Poređenje

Bodovi

Smjer	Mean	N	Std. Deviation
pol-medj	15.3875	40	8.40824
soc	10.9479	48	5.57563
Total	12.9659	88	7.30957

Muškarci

Vs.
Žene

Poređenje

Bodovi

Pol	Mean	N	Std. Deviation
M	18.2188	16	7.75235
Z	11.7986	72	6.72114
Total	12.9659	88	7.30957

Možemo da tražimo veze među varijablama

Možemo da tražimo veze među varijablama

U kakvoj su vezi starost i
vjerovatnoća izlaznosti na glasanje?

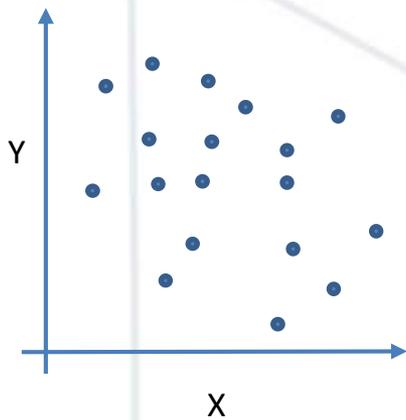


UCG

University of Montenegro

X = starost

Y = vjerovatnoća izlaska na izbore



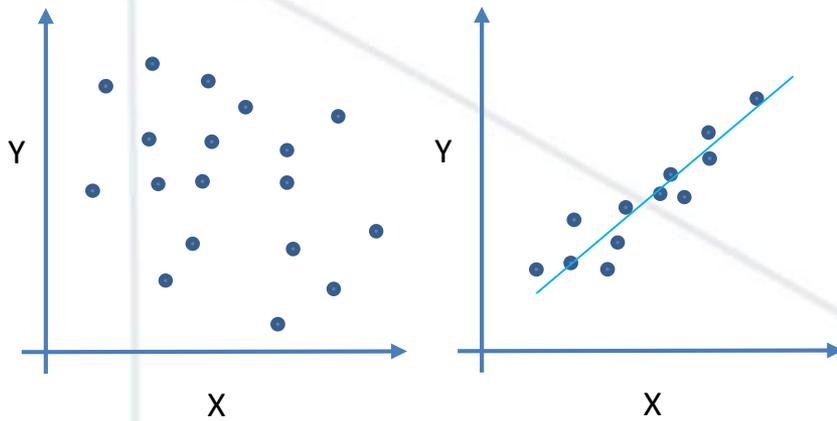


UCG

University of Montenegro

X = starost

Y = vjerovatnoća izlaska na izbore



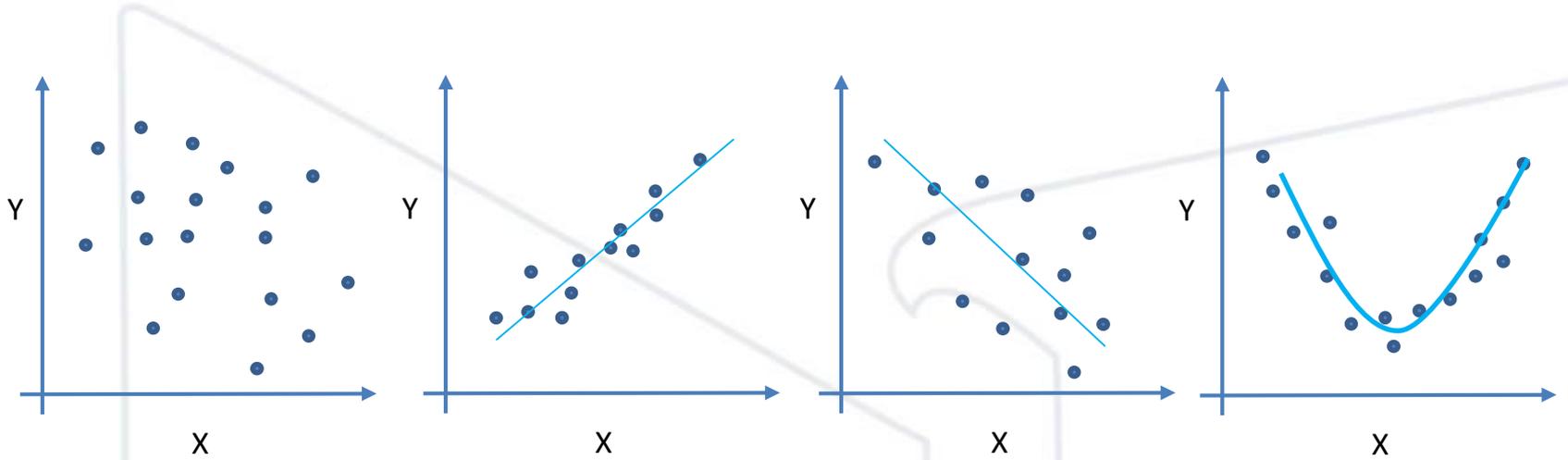


UCG

University of Montenegro

X = starost

Y = vjerovatnoća izlaska na izbore

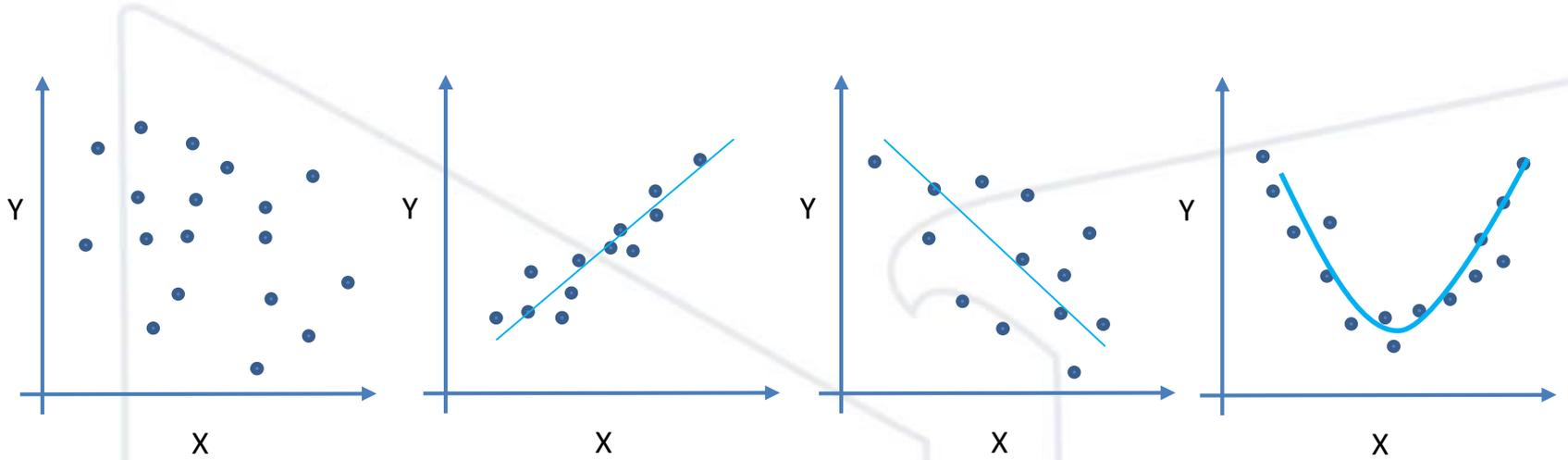




University of Montenegro

X = starost

Y = vjerovatnoća izlaska na izbore



Oblik Nema veze

Linearna povezanost

Nelinearna povezanost

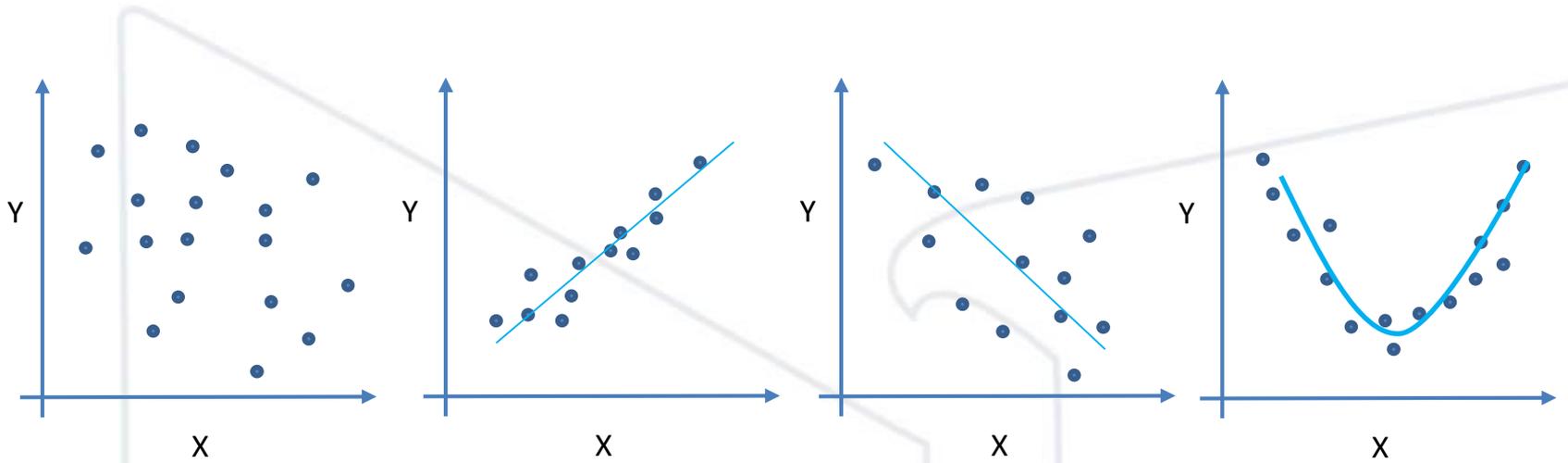


UCG

University of Montenegro

X = starost

Y = vjerovatnoća izlaska na izbore



Oblik

Nema veze

Smjer

Pozitivna veza

Linearna povezanost

Negativna veza

Nelinearna povezanost

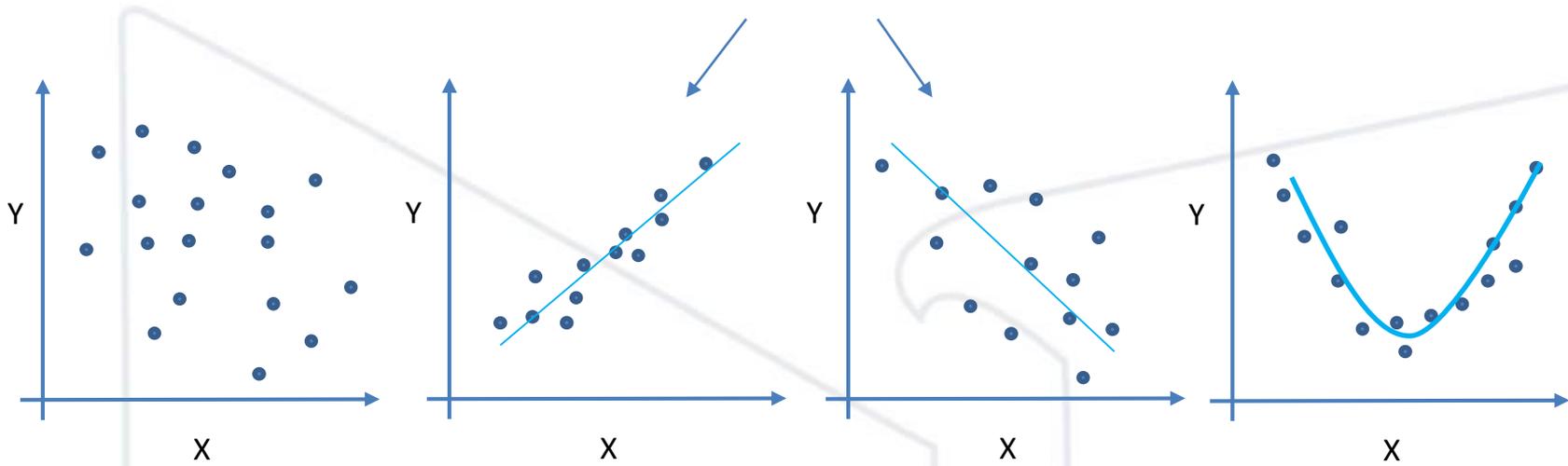


University of Montenegro

X = starost

Y = vjerovatnoća izlaska na izbore

Snaga veze



Oblik

Nema veze

Smjer

Pozitivna veza

Linearna povezanost

Negativna veza

Nelinearna povezanost