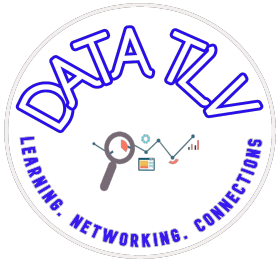


15 September 2022

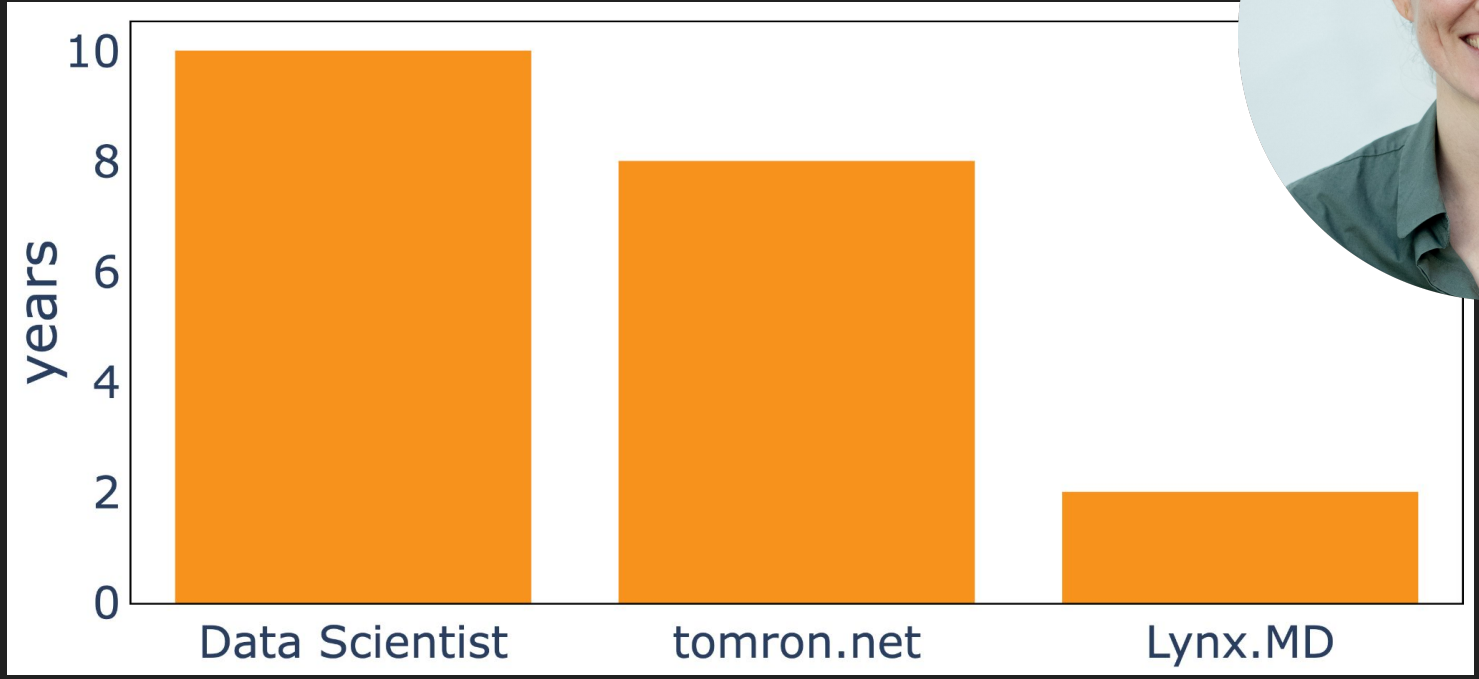
Think outside of the Box Plot

Tom Ron

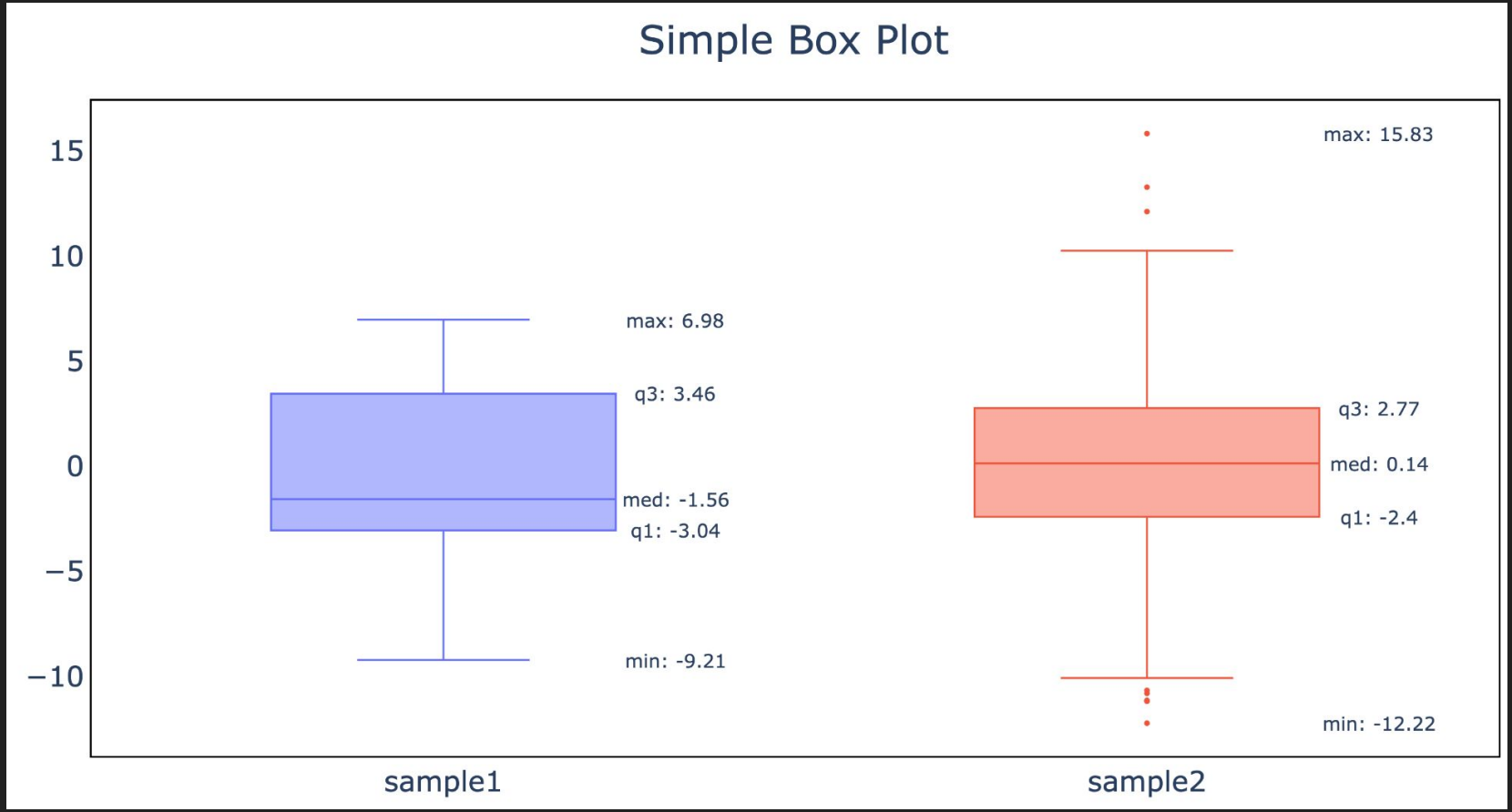
Think outside of the box plot

Tom Ron, Lynx.md, September 2022

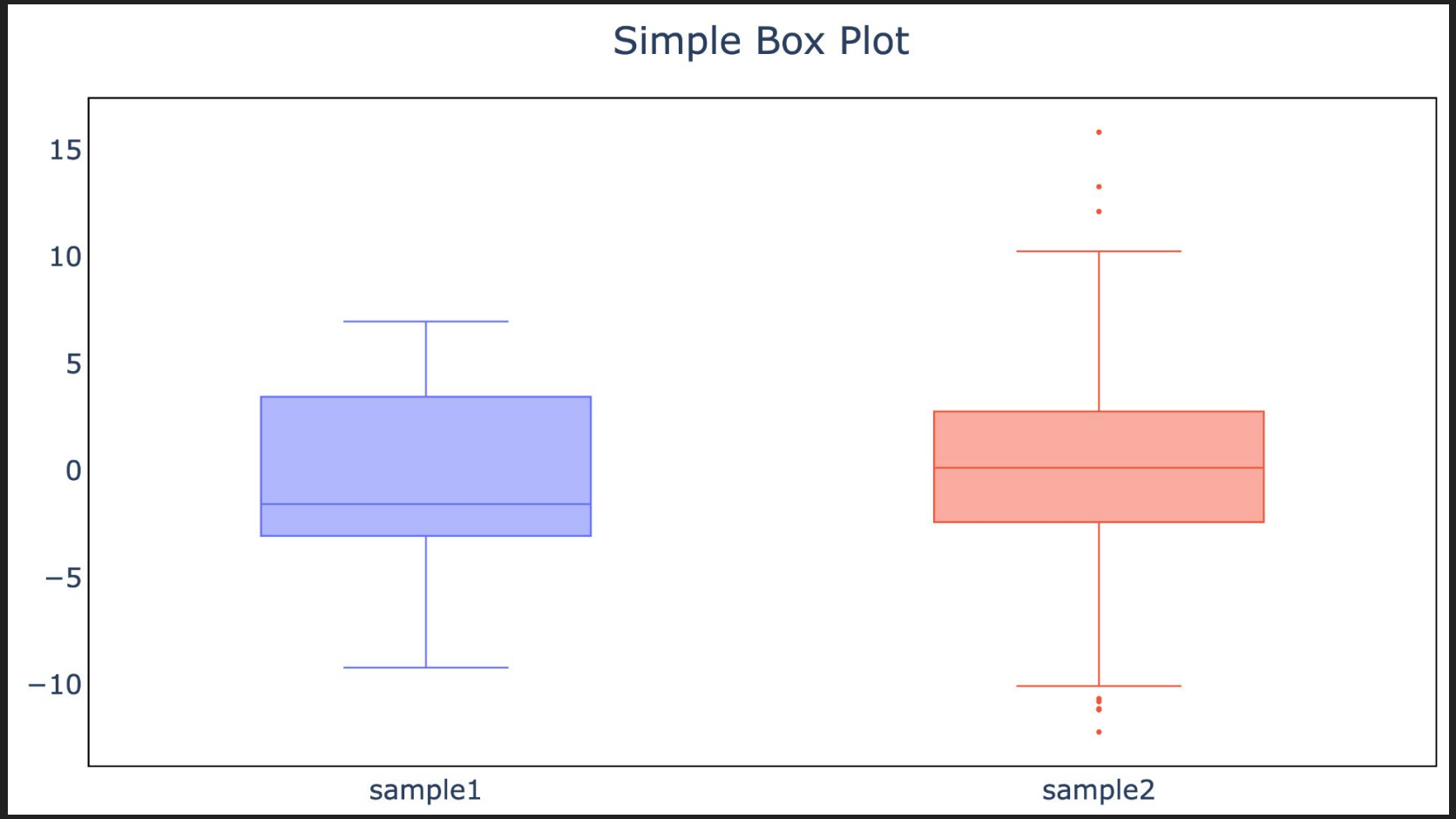
Tom Ron

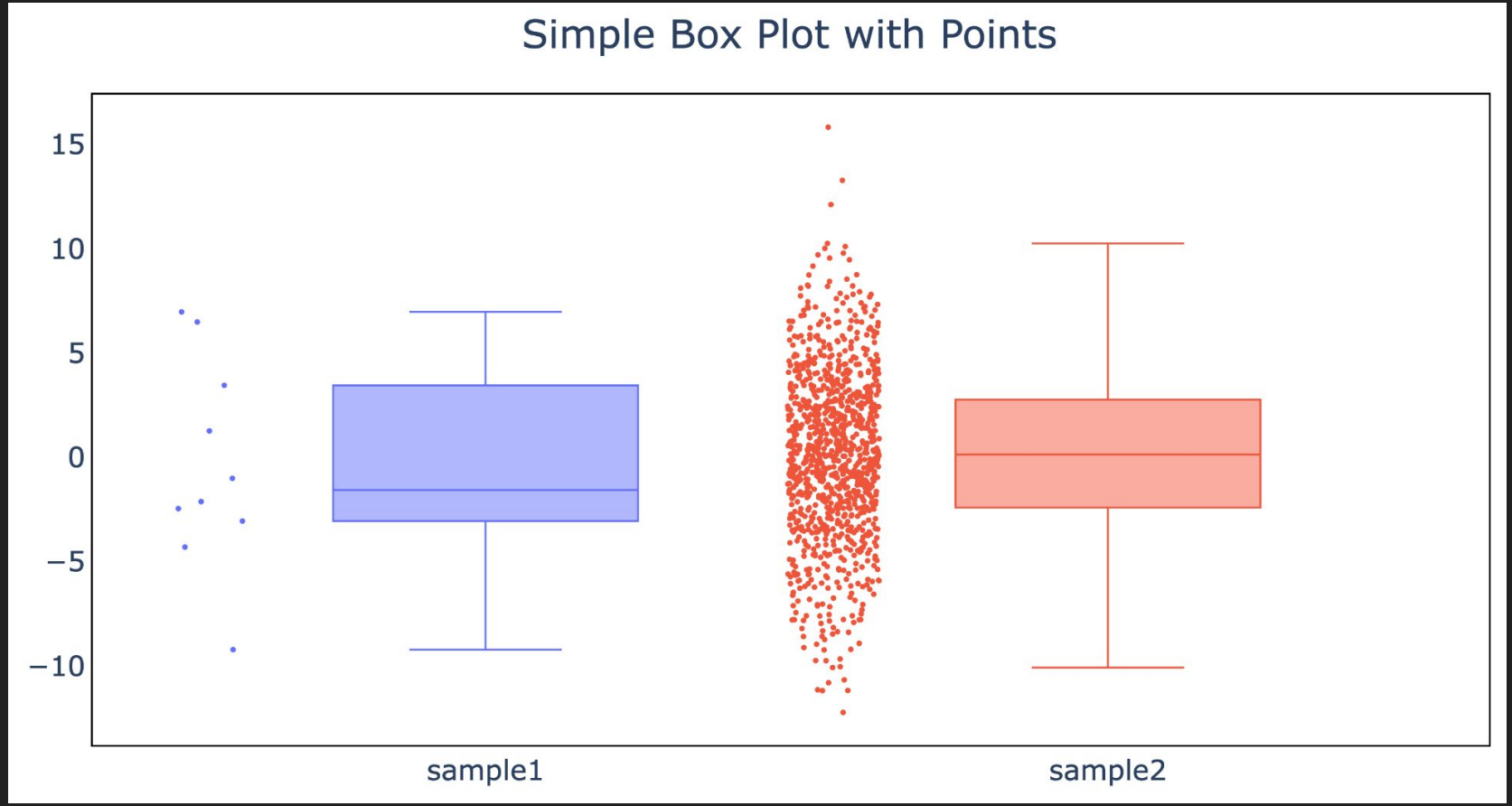


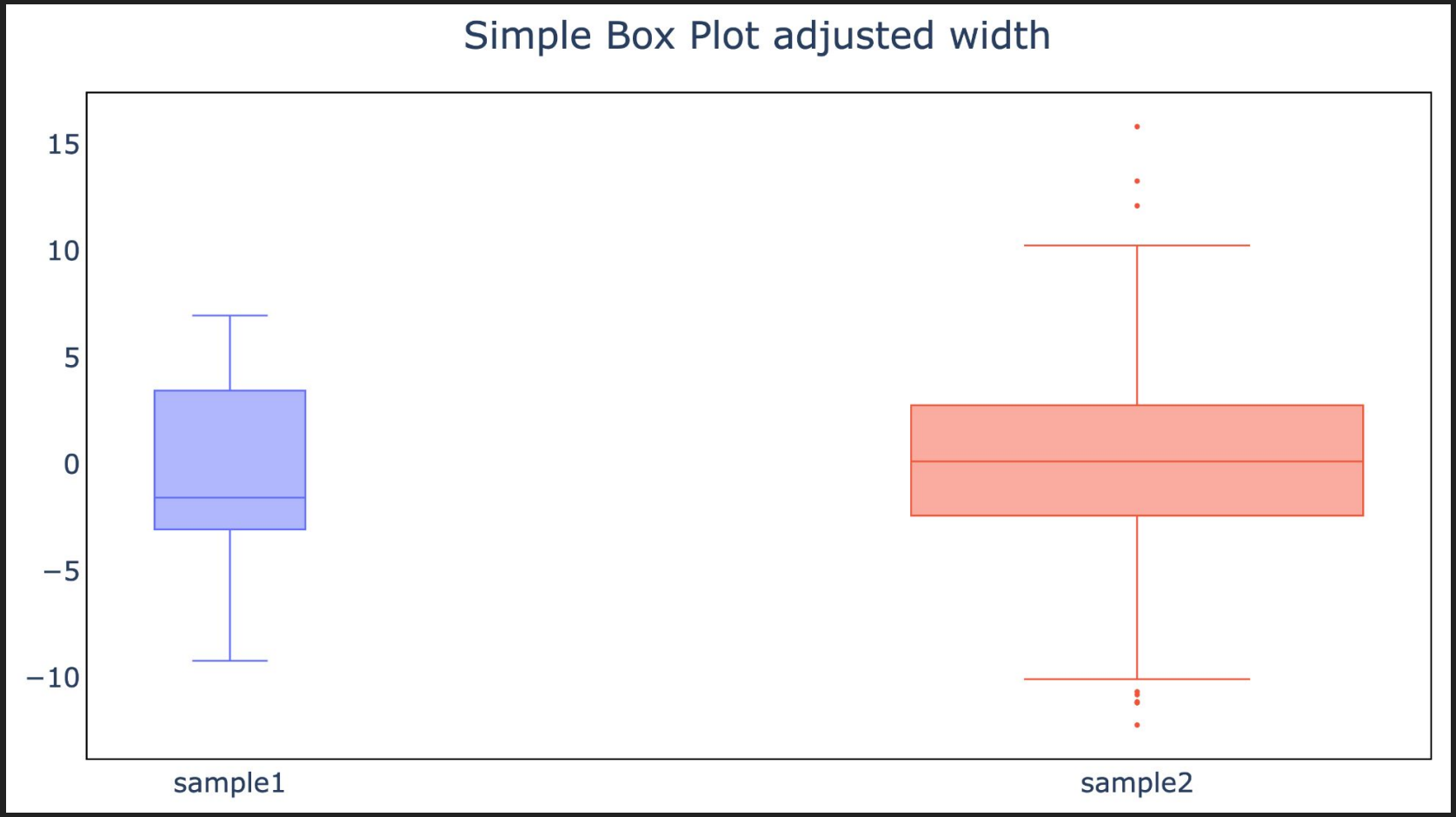
What is Box Plot

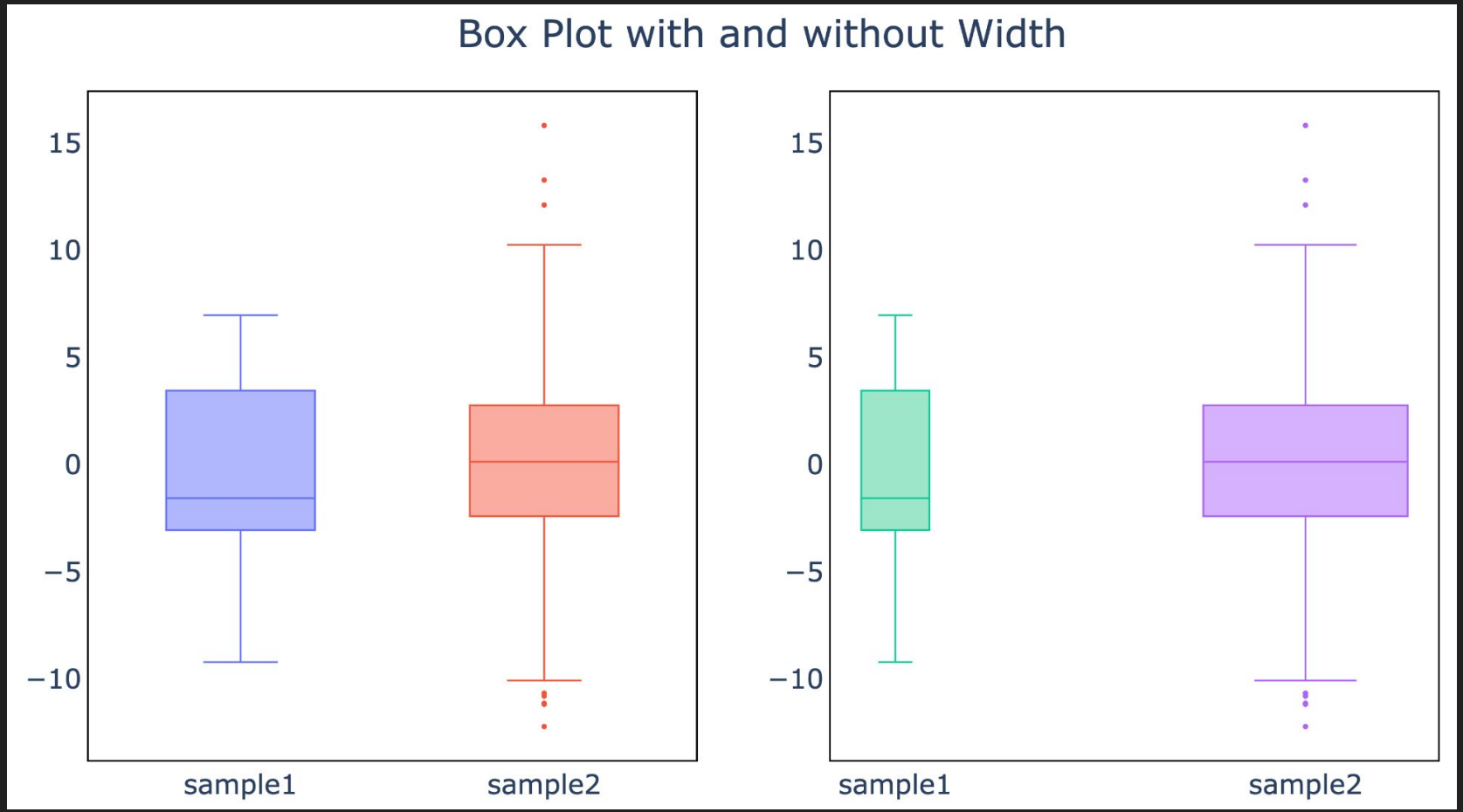

Simple Box Plot
15
10
5
0
−5
−10
max: 6.98
q3: 3.46
med: -1.56
q1: -3.04
min: -9.21
max: 15.83
q3: 2.77
med: 0.14
q1: -2.4
min: -12.22
sample1
sample2

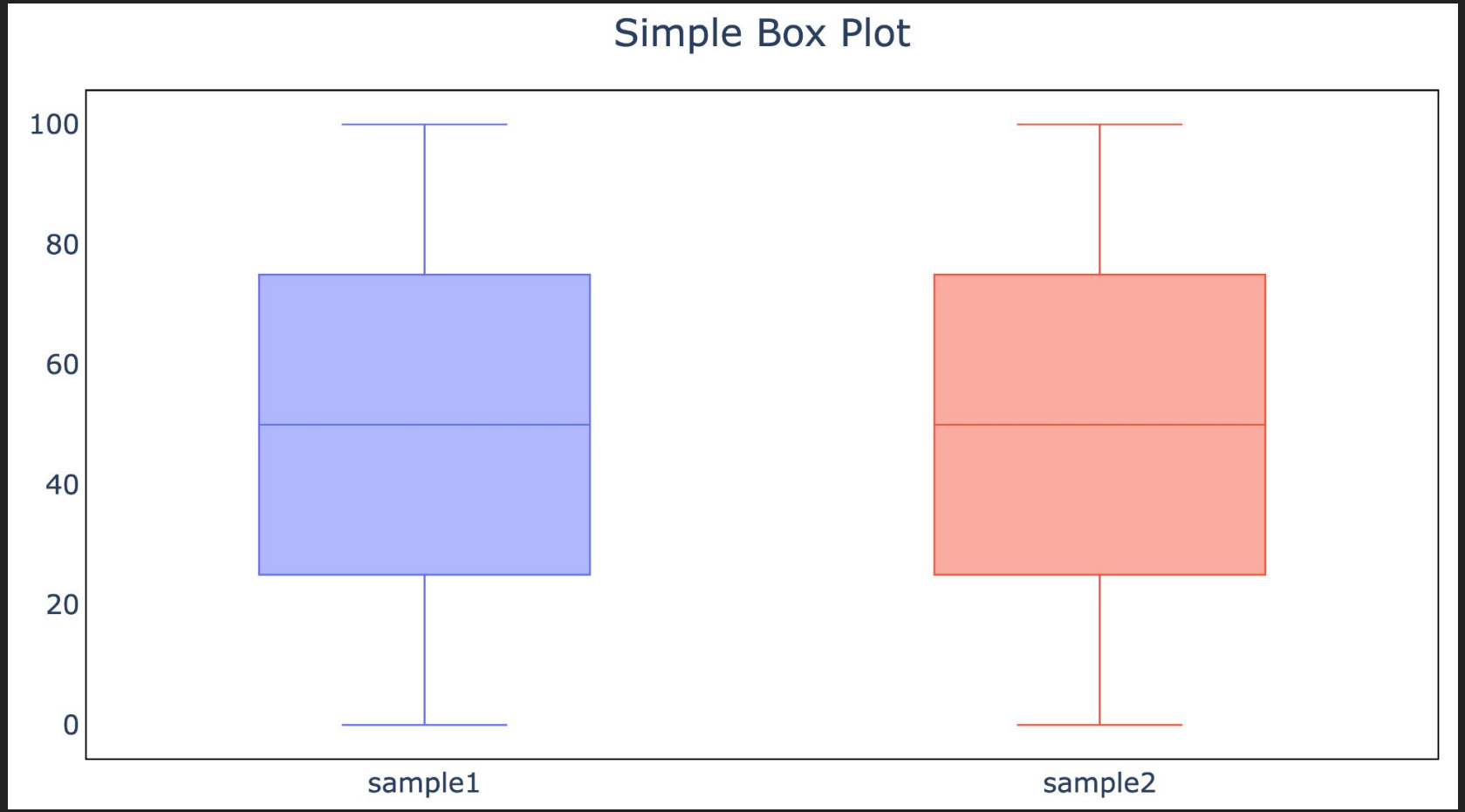
Lies, Damned Lies, and Statistics

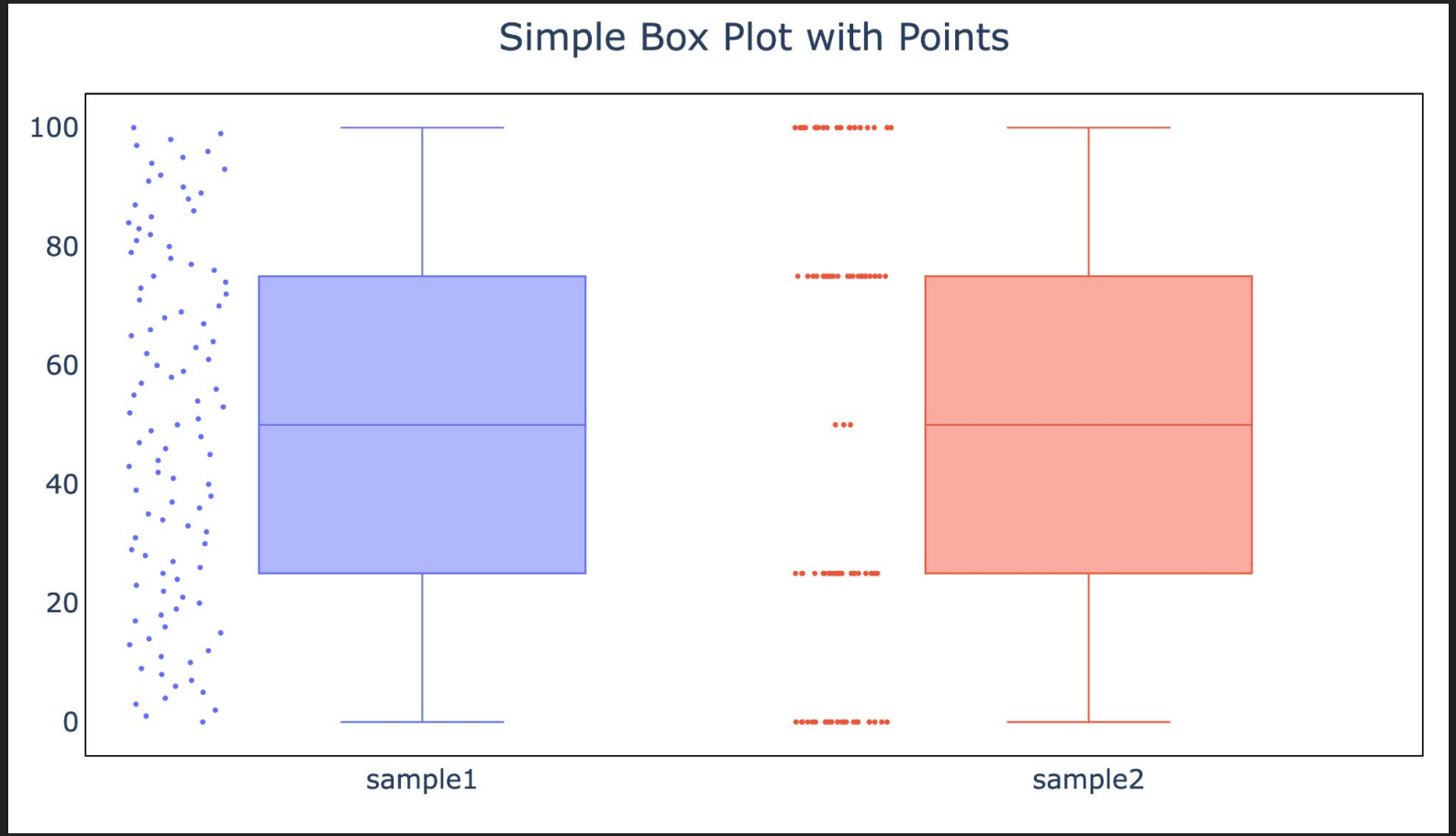

Simple Box Plot
15
10
5
0
−5
−10
sample1
sample2

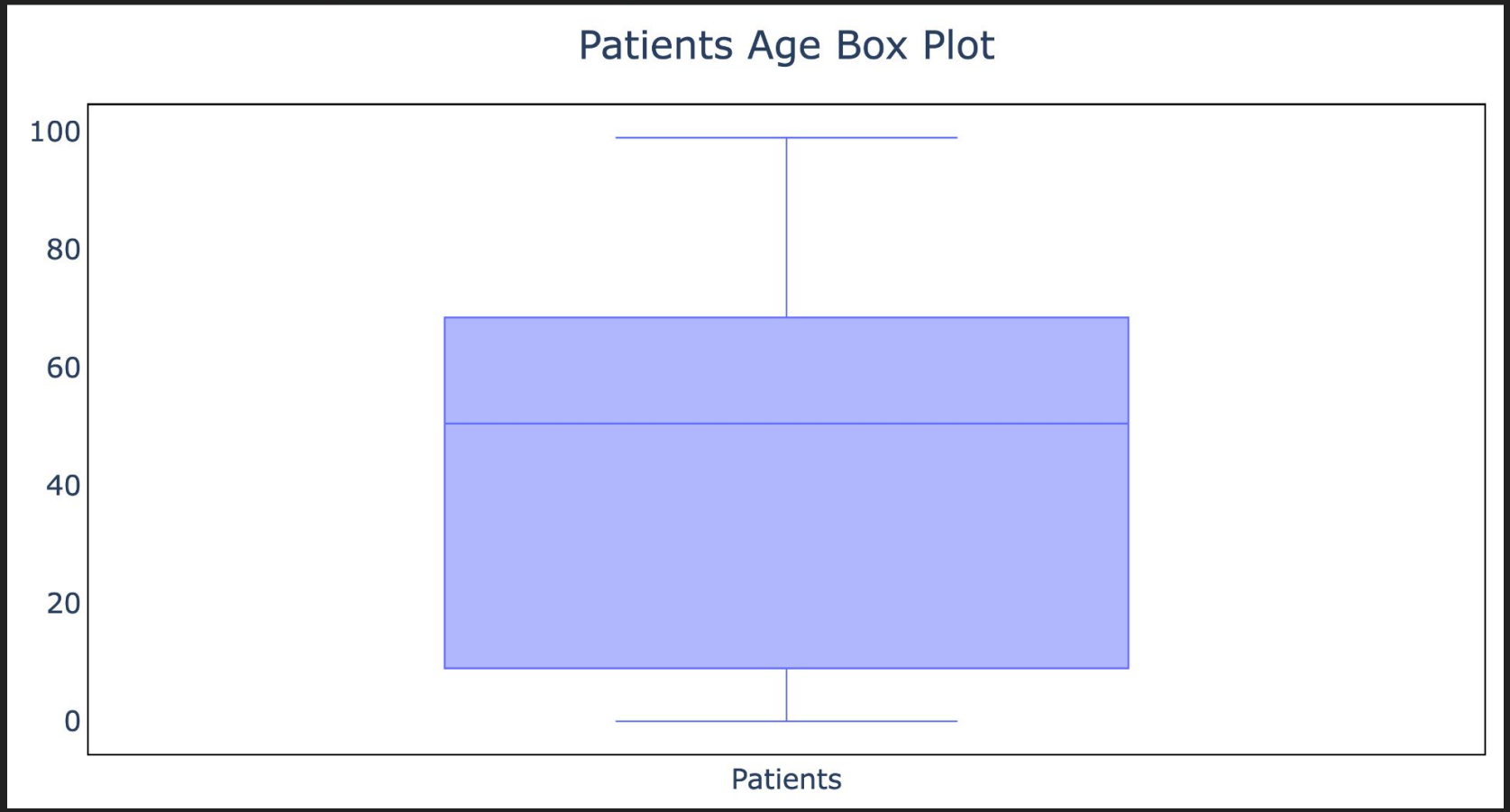

Simple Box Plot with Points
15
10
5
0
−5
−10
sample1
sample2

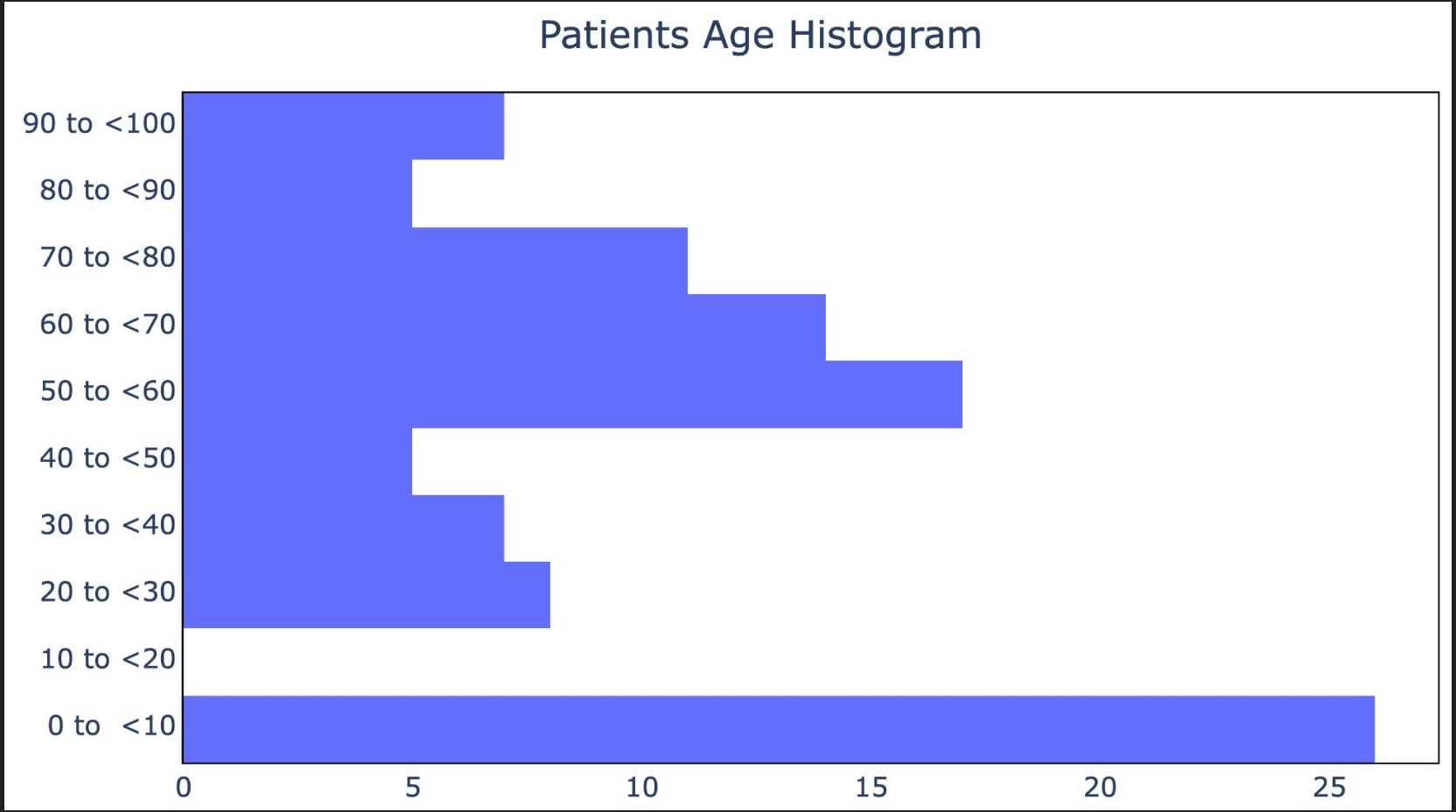

Simple Box Plot adjusted width
15
10
5
0
−5
−10
sample1
sample2

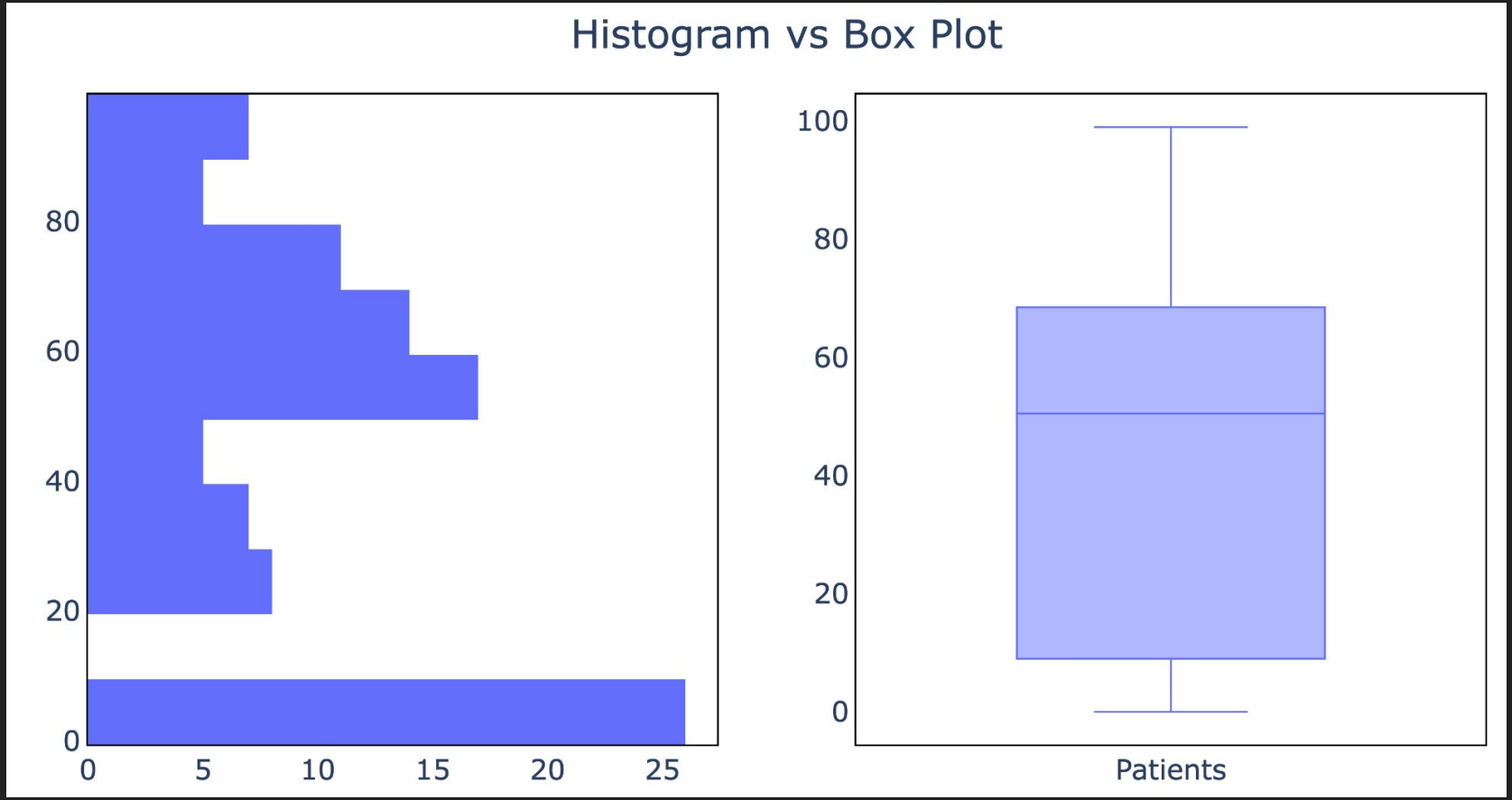

Box Plot with and without Width
15
10
5
0
−5
−10
sample1
sample2
15
10
5
0
−5
−10
sample1
sample2

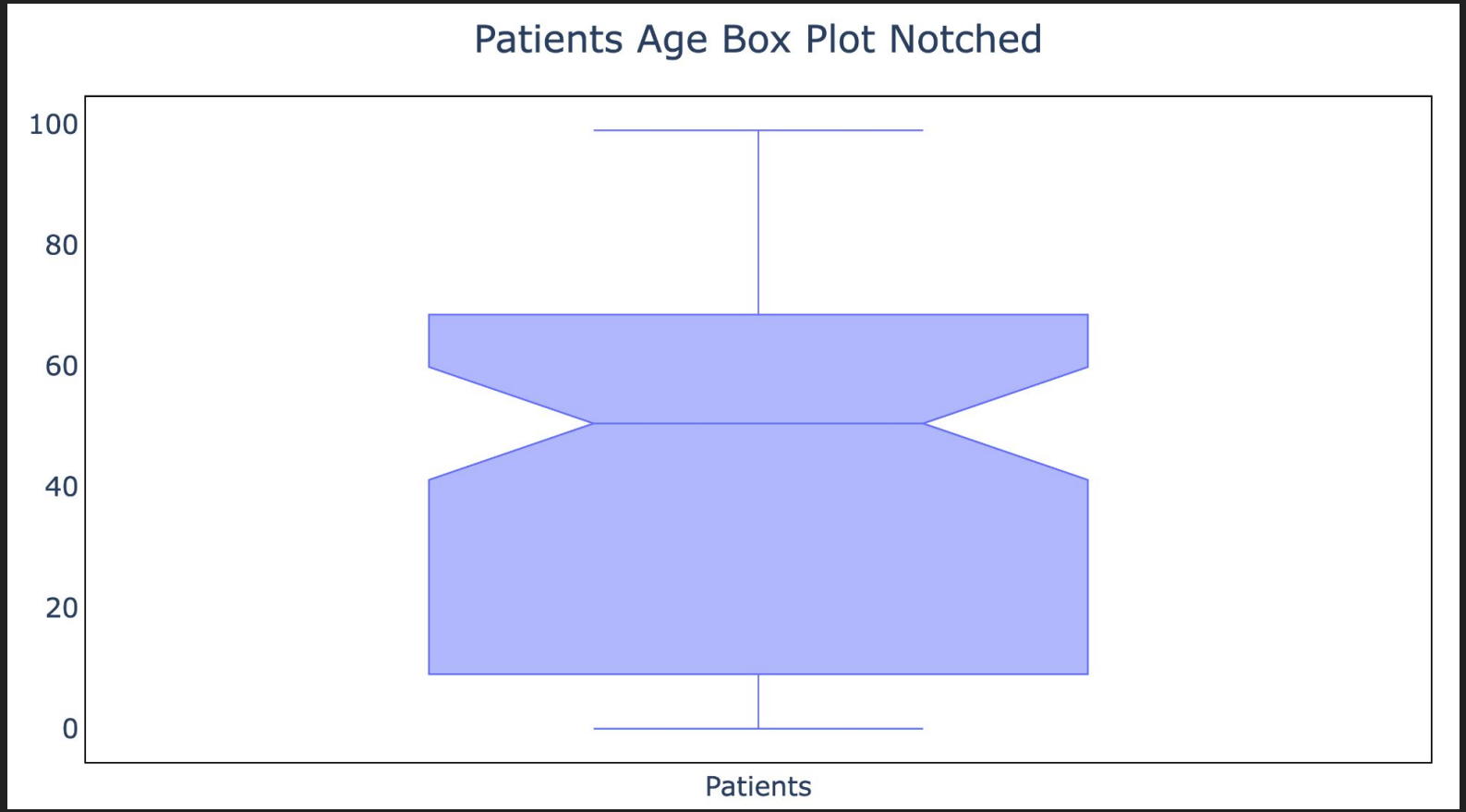

Simple Box Plot
100
80
60
40
20
0
sample1
sample2


Simple Box Plot with Points
100
80
60
40
20
0
sample1
sample2


Patients Age Box Plot
100
80
60
40
20
0
Patients


Patients Age Histogram
90 to <100
80 to <90
70 to <80
60 to <70
50 to <60
40 to <50
30 to <40
20 to <30
10 to <20
0 to <10
0
5
10
15
20
25


Histogram vs Box Plot
0
20
40
60
80
0
5
10
15
20
25
100
80
60
40
20
0
Patients


Patients Age Box Plot Notched
100
80
60
40
20
0
Patients

Thank you!

All the code is available in - here

Many thanks to our generous sponsors for making this day a huge success!