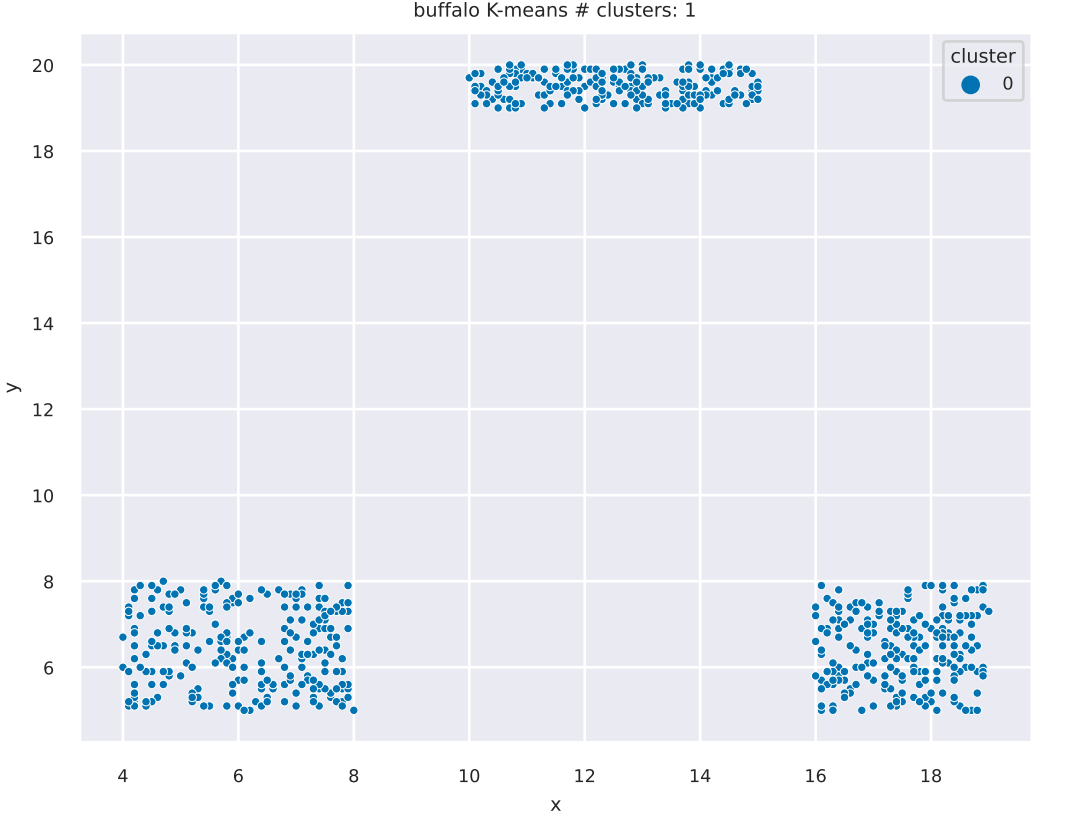
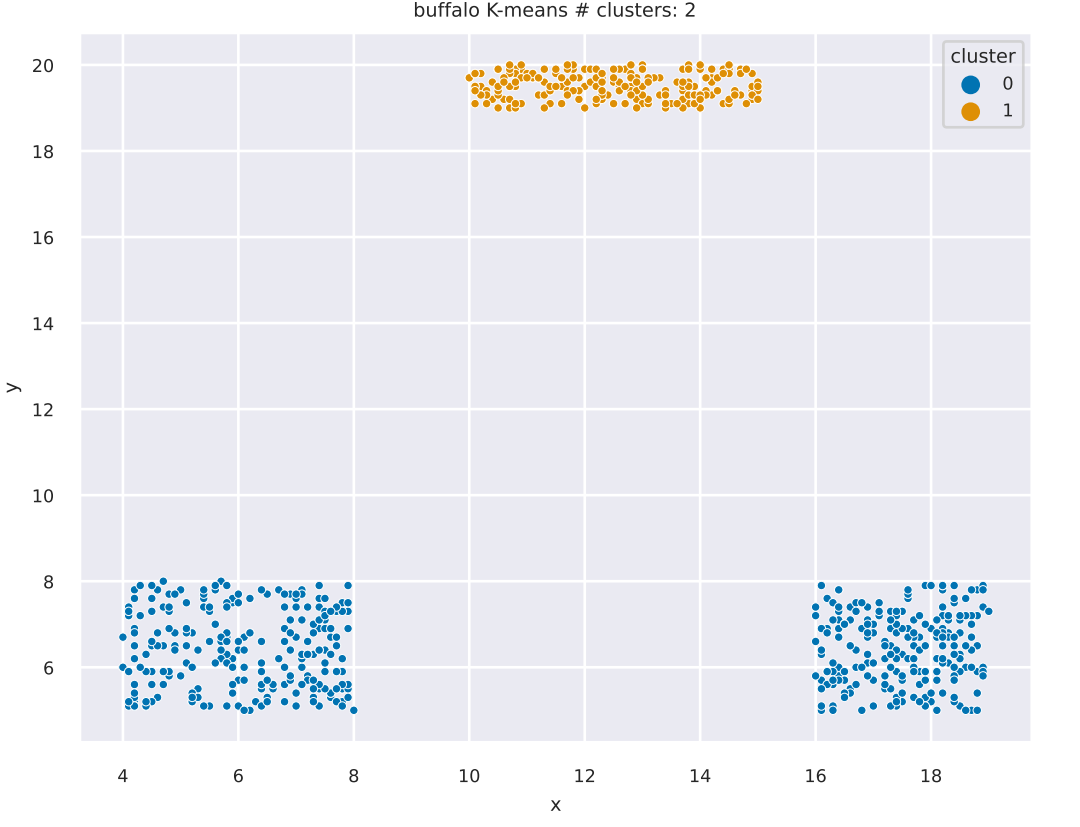
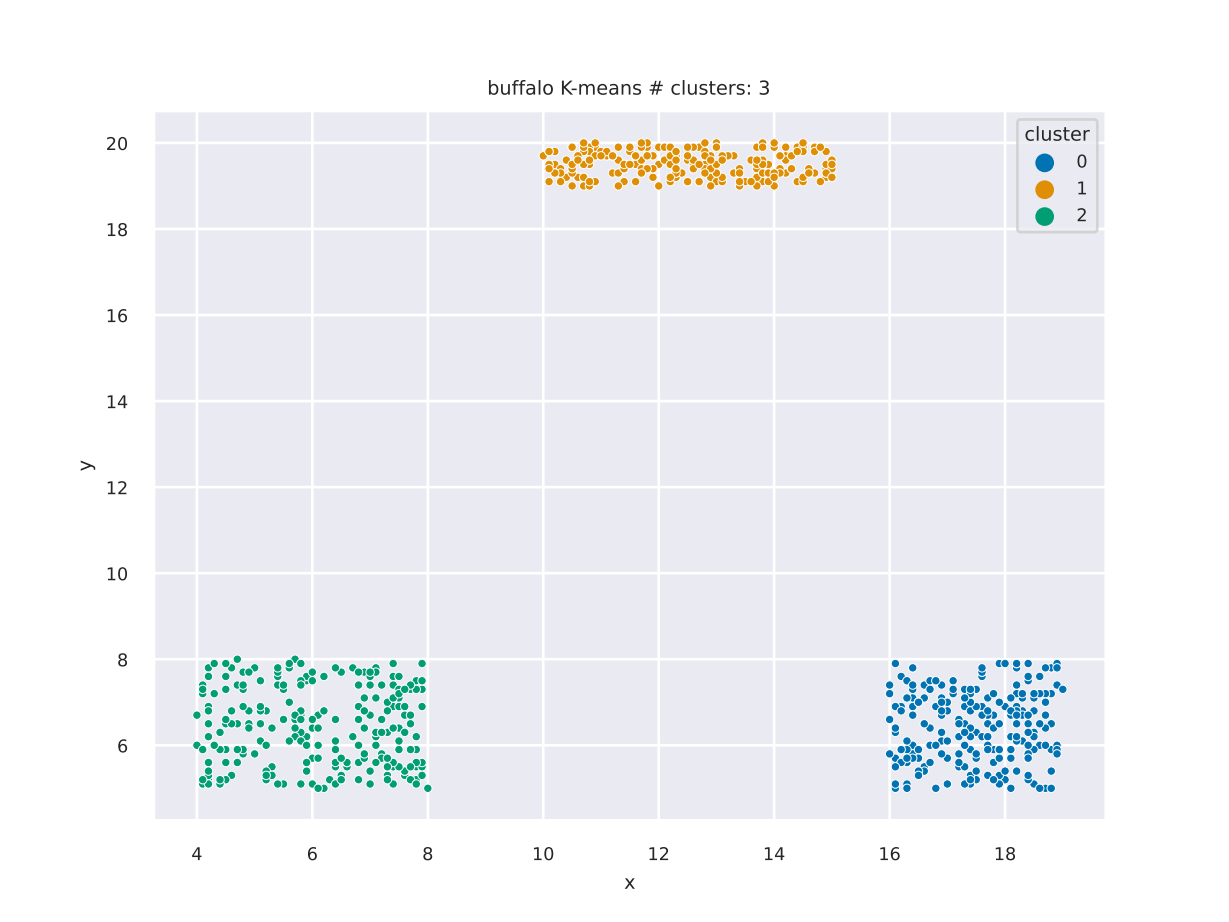
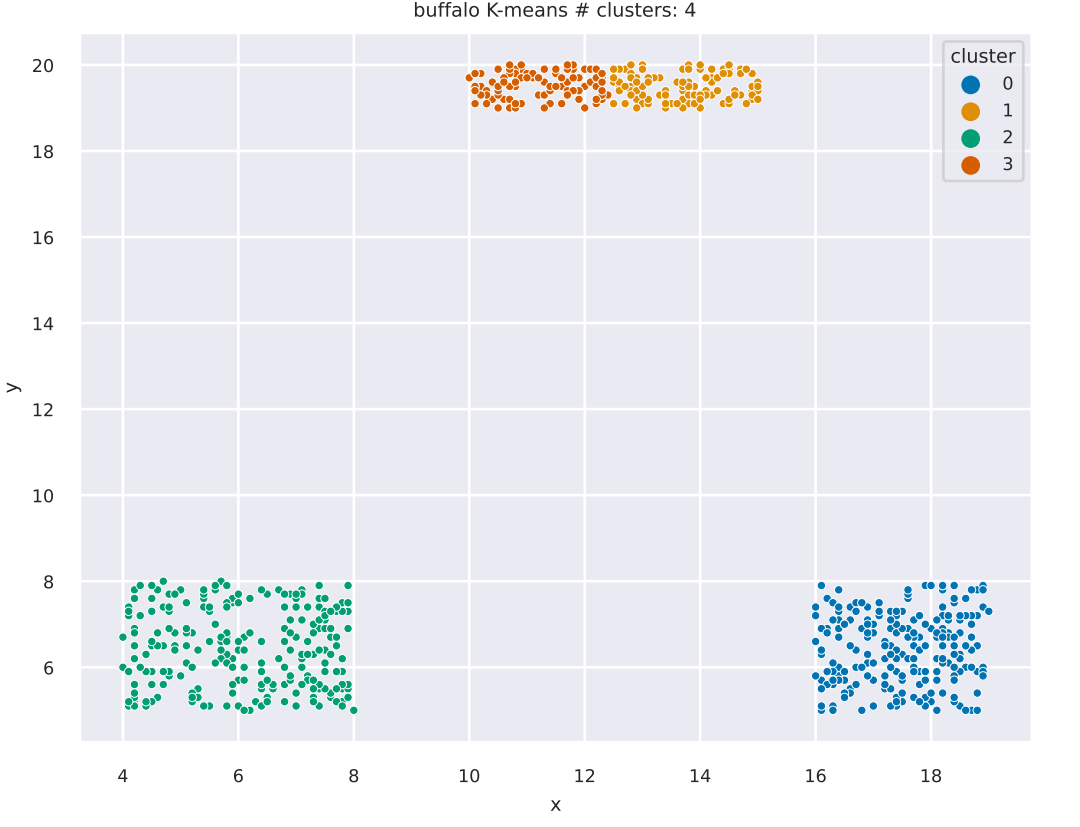
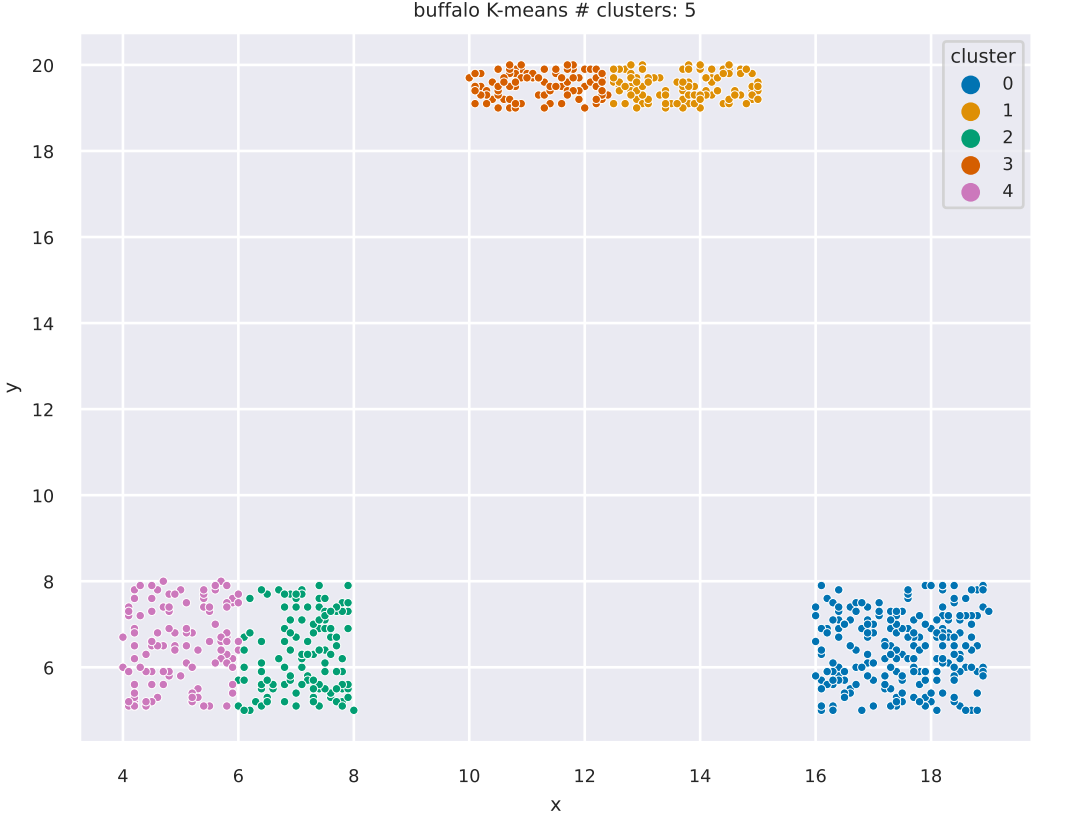
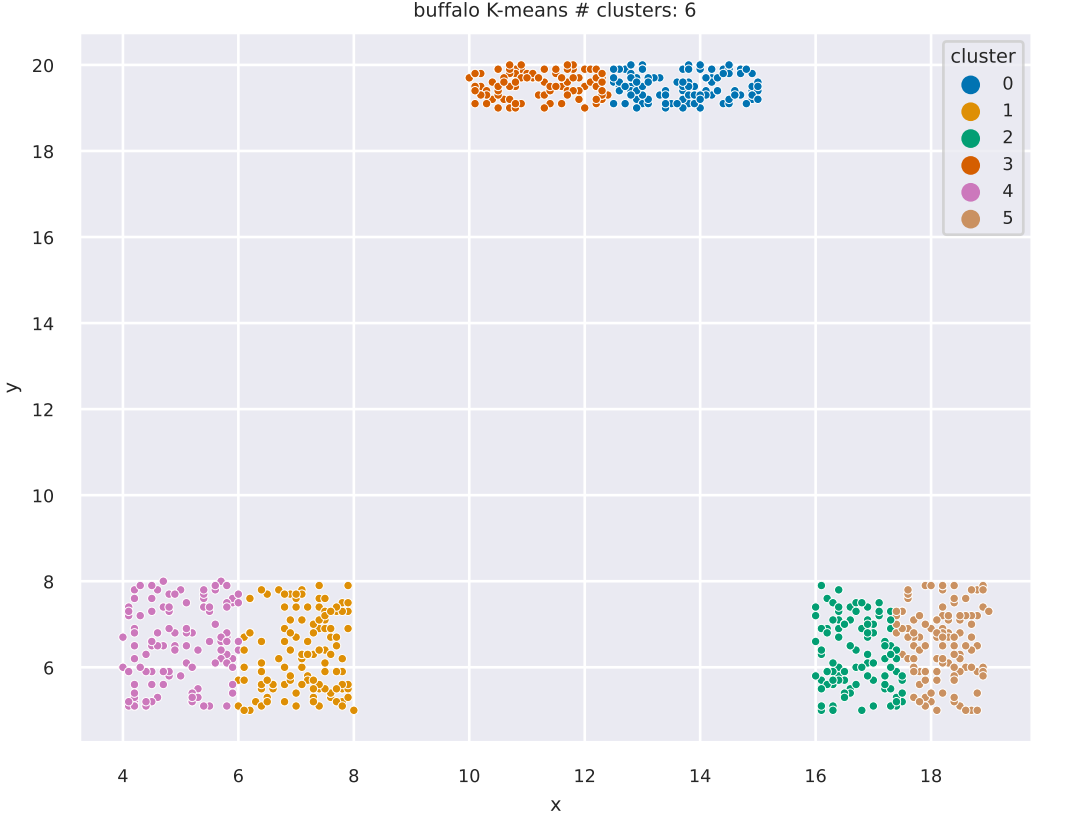

buffalo K-means # clusters: 1
cluster
0
20
18
16
14
12
10
8
6
y
4
6
8
10
12
14
16
18
x


buffalo K-means # clusters: 2
cluster
0
1
20
18
16
14
12
10
8
6
y
4
6
8
10
12
14
16
18
x


buffalo K-means # clusters: 3
cluster
0
1
2
20
18
16
14
12
10
8
6
y
4
6
8
10
12
14
16
18
x

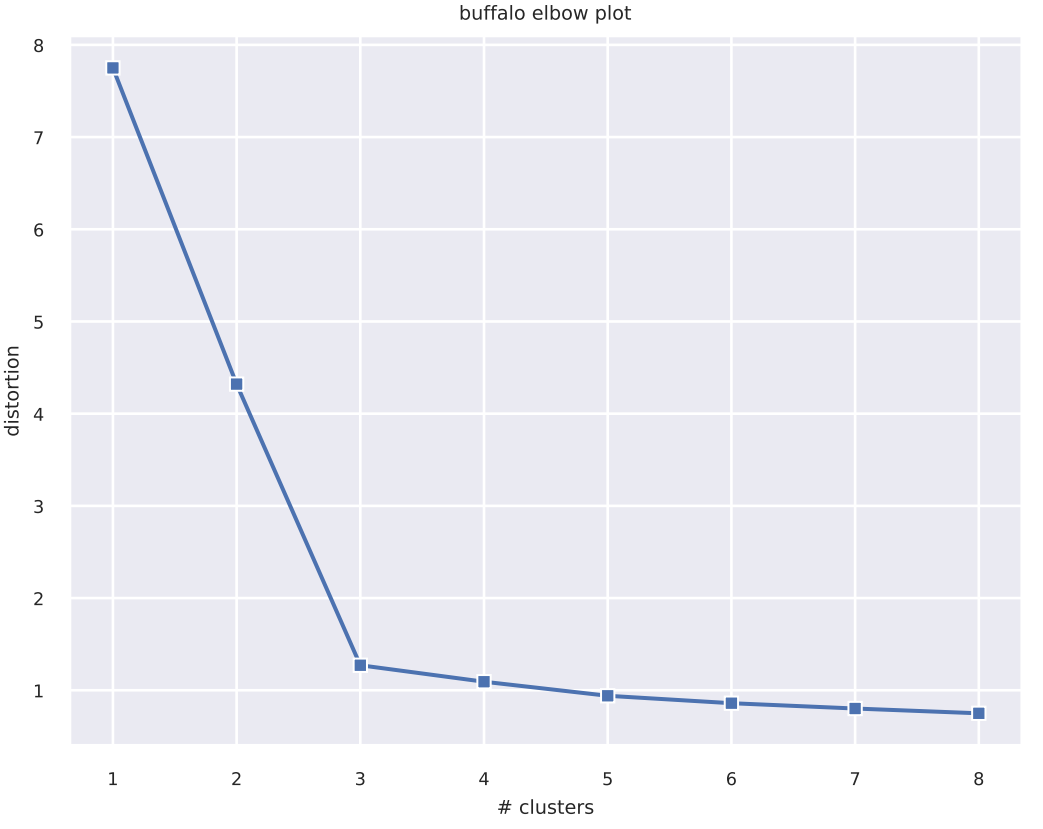

buffalo K-means # clusters: 4
cluster
0
1
2
3
20
18
16
14
12
10
8
6
y
4
6
8
10
12
14
16
18
x


buffalo K-means # clusters: 5
cluster
0
1
2
3
4
20
18
16
14
12
10
8
6
y
4
6
8
10
12
14
16
18
x


buffalo K-means # clusters: 6
cluster
0
1
2
3
4
5
20
18
16
14
12
10
8
6
y
4
6
8
10
12
14
16
18
x

buffalo K-means # clusters: 7
cluster
0
1
2
3
4
5
6
20
18
16
14
12
10
8
6
y
4
6
8
10
12
14
16
18
x

buffalo K-means # clusters: 8
cluster
0
1
2
3
4
5
6
7
20
18
16
14
12
10
8
6
y
4
6
8
10
12
14
16
18
x


buffalo elbow plot
distortion
clusters
8
7
6
5
4
3
2
1
1
2
3
4
5
6
7
8