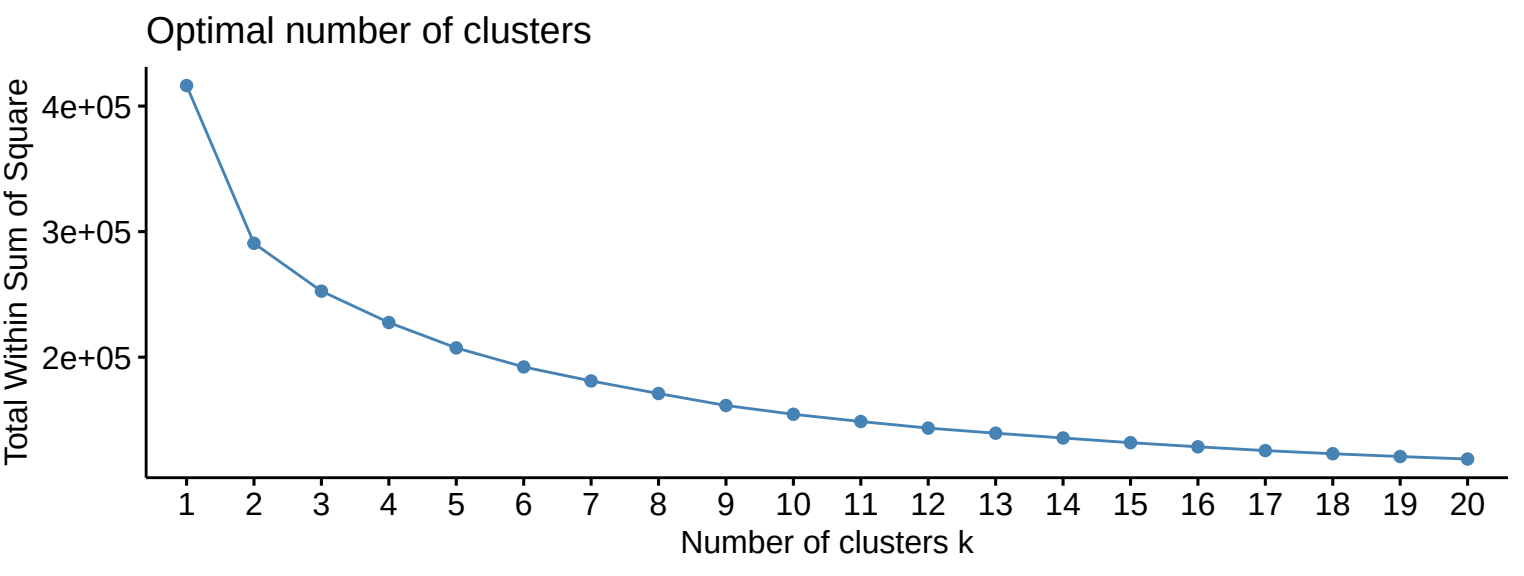
Optimal number of clusters
Total Within Sum of Square
4e+05
3e+05
2e+05
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
Number of clusters k