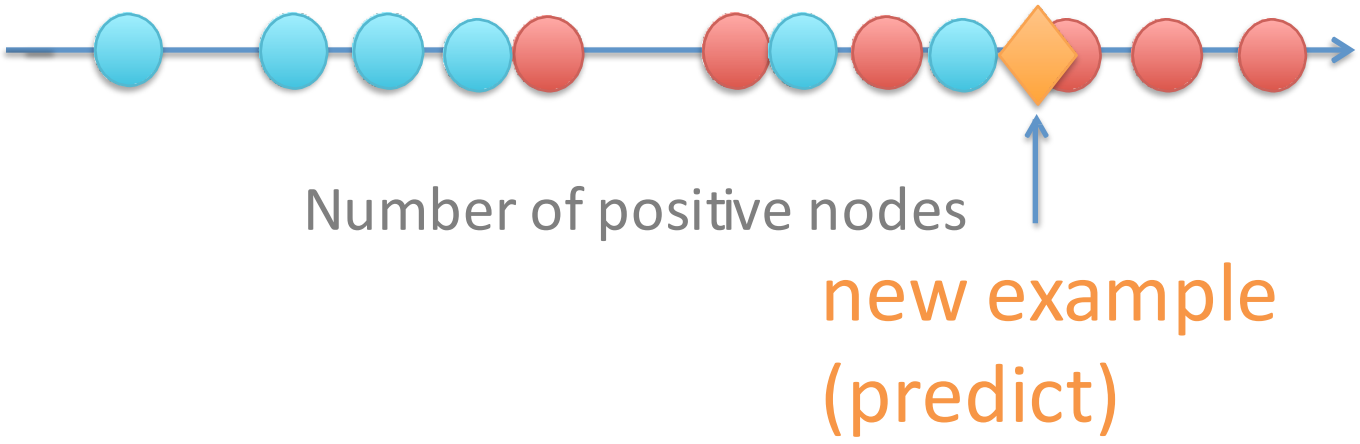
K Nearest Neighbors for Classification

K Nearest Neighbors

K Nearest Neighbors

Number of positive nodes

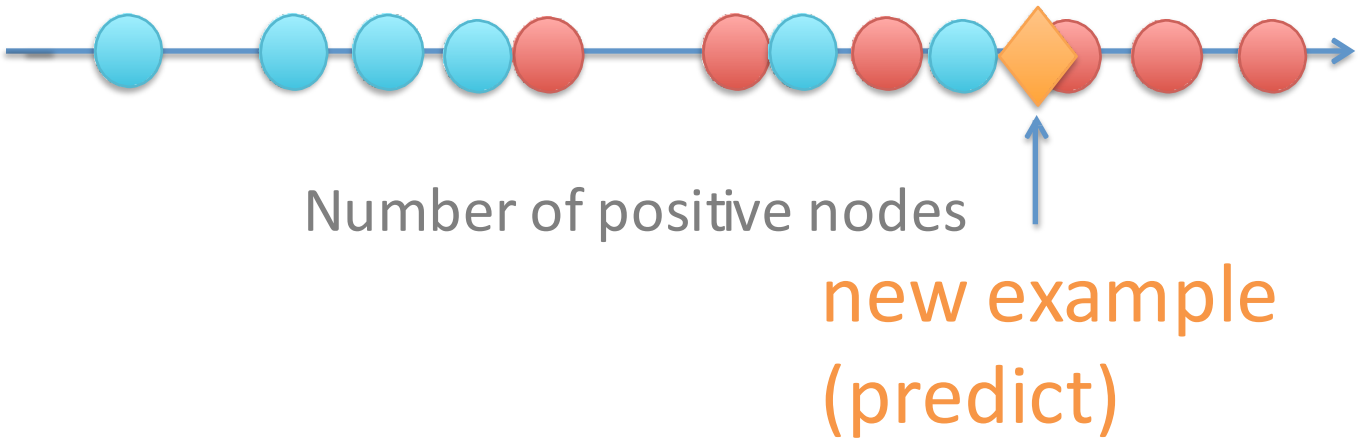
K Nearest Neighbors



K Nearest Neighbors

K=1:

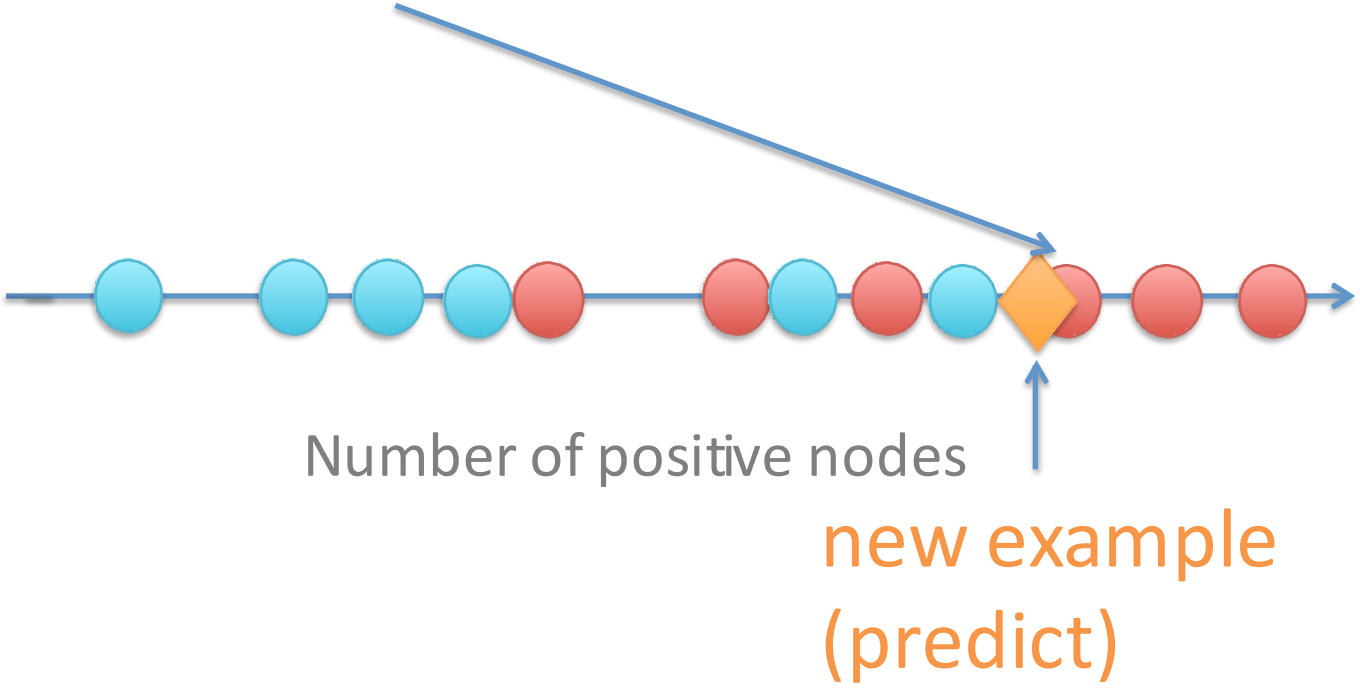
Look at the nearest neighbor, predict their label



K Nearest Neighbors

K=1:

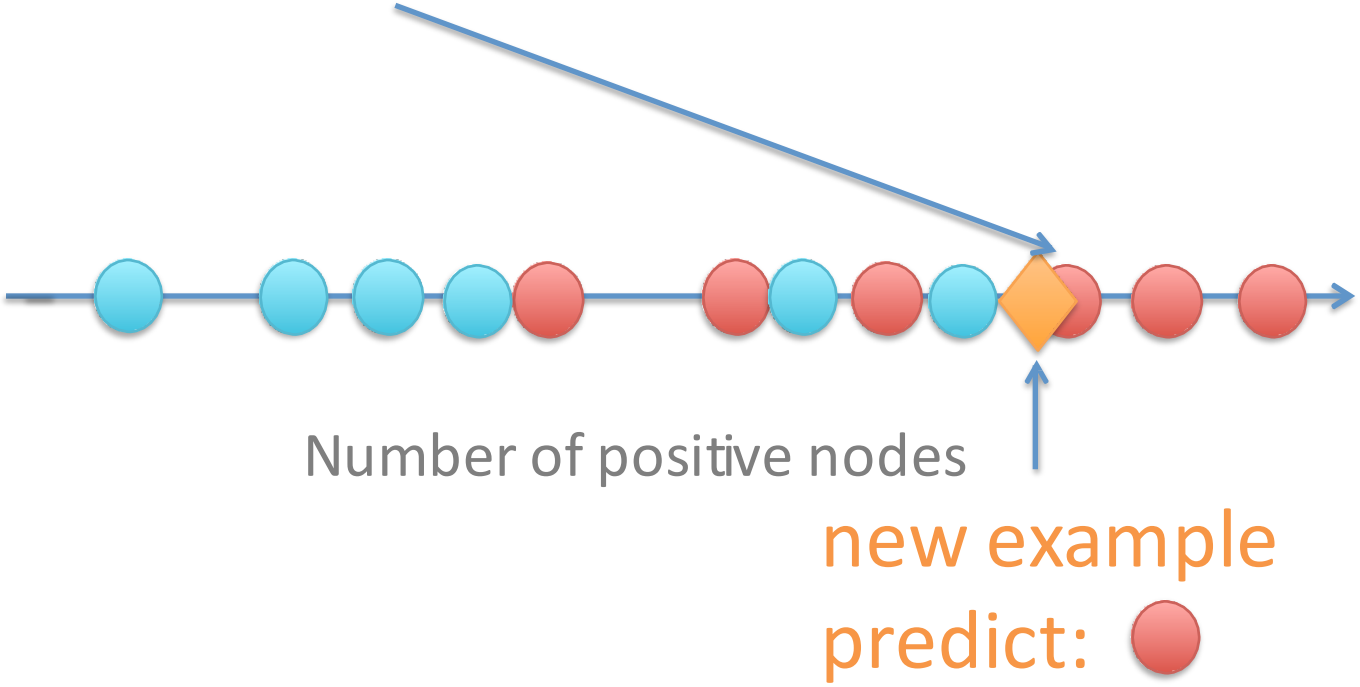
Look at the nearest neighbor, predict their label



K Nearest Neighbors

K=1:

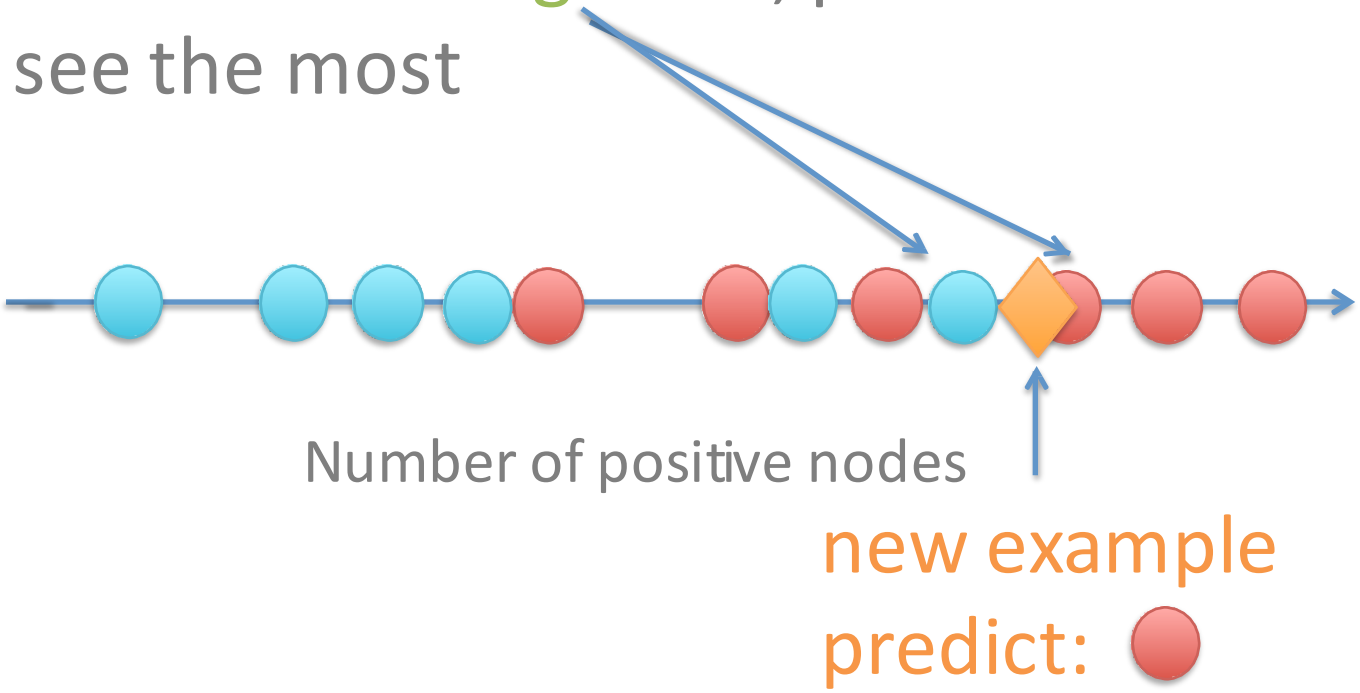
Look at the nearest neighbor, predict their label



K Nearest Neighbors

K=2:

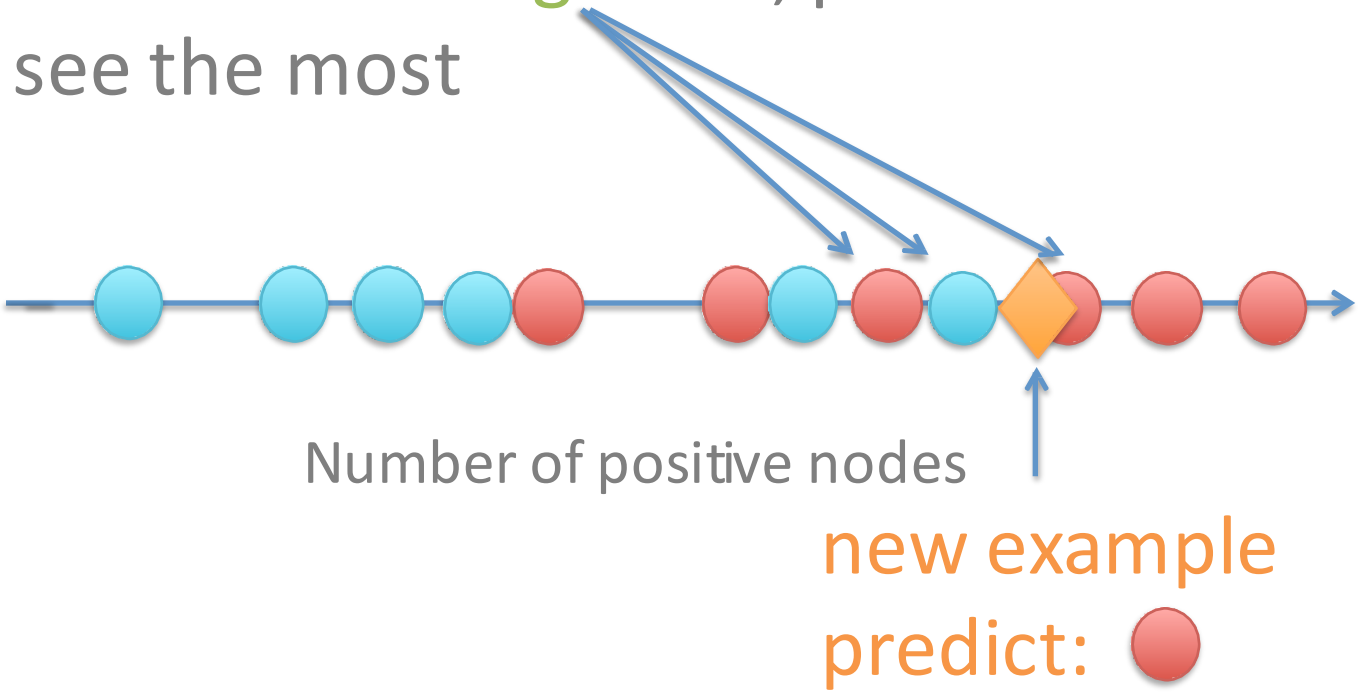
Look at the 2 nearest neighbors, predict the label you see the most



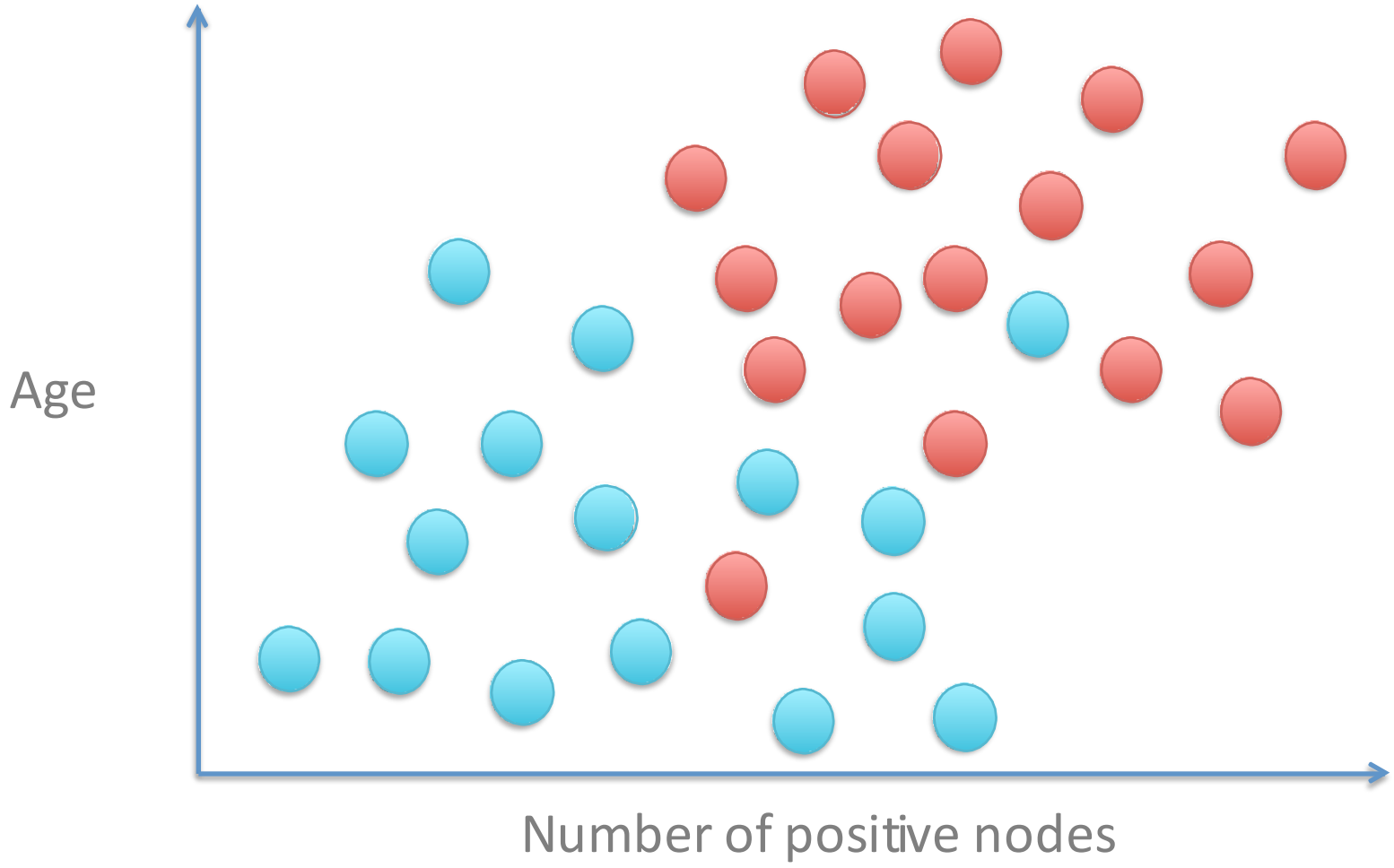
K Nearest Neighbors

K=3:

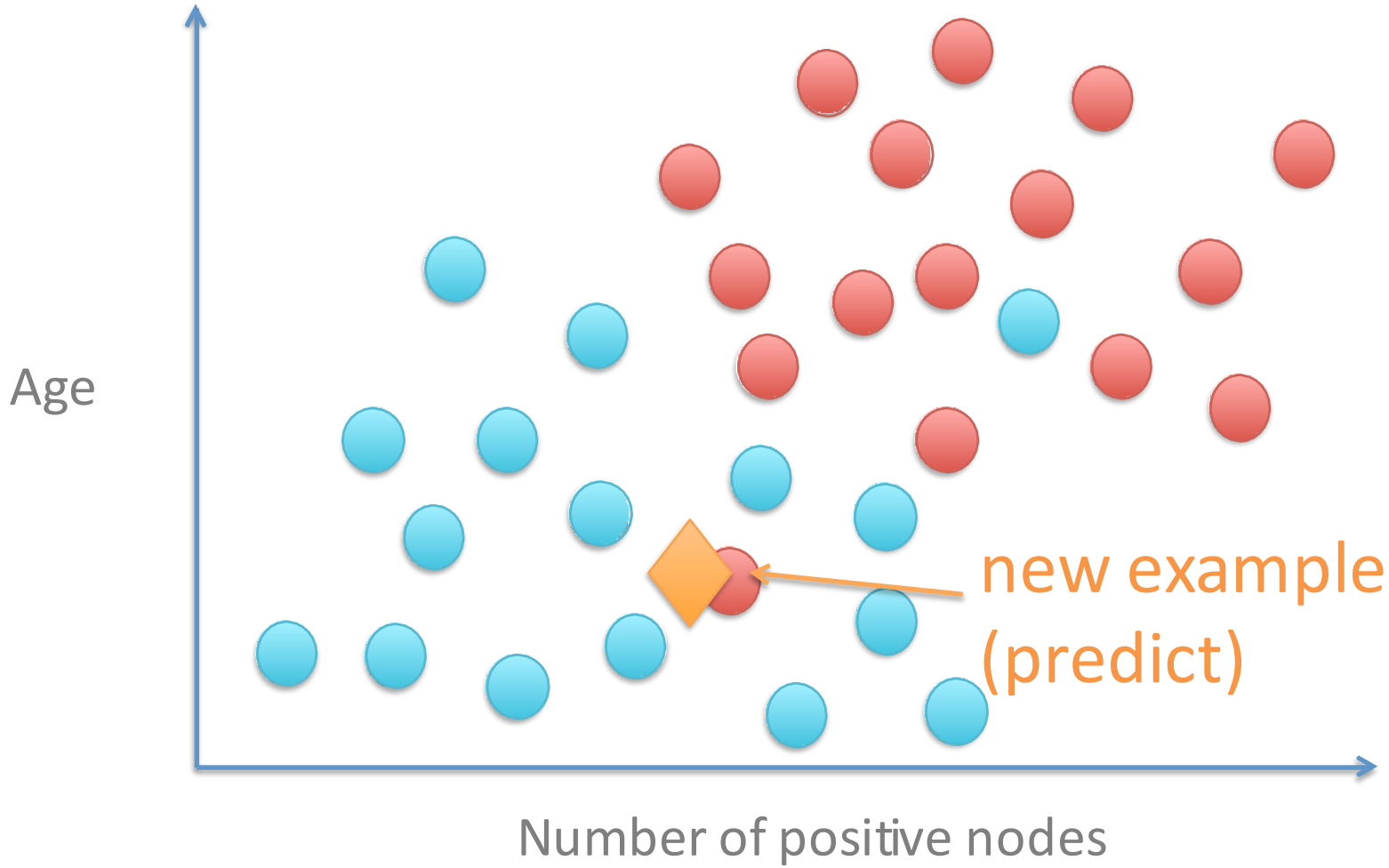
Look at the 3 nearest neighbors, predict the label you see the most



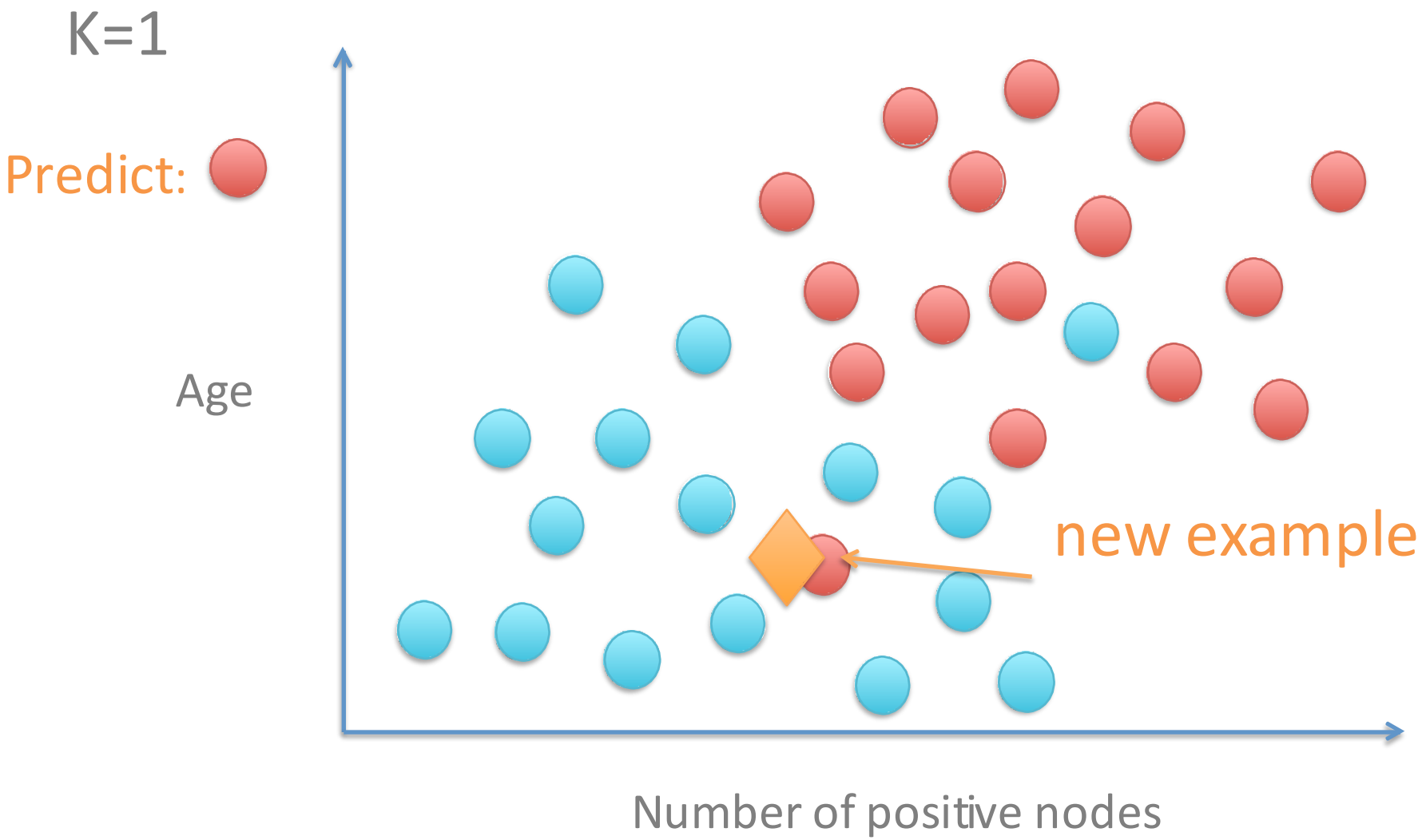
K Nearest Neighbors



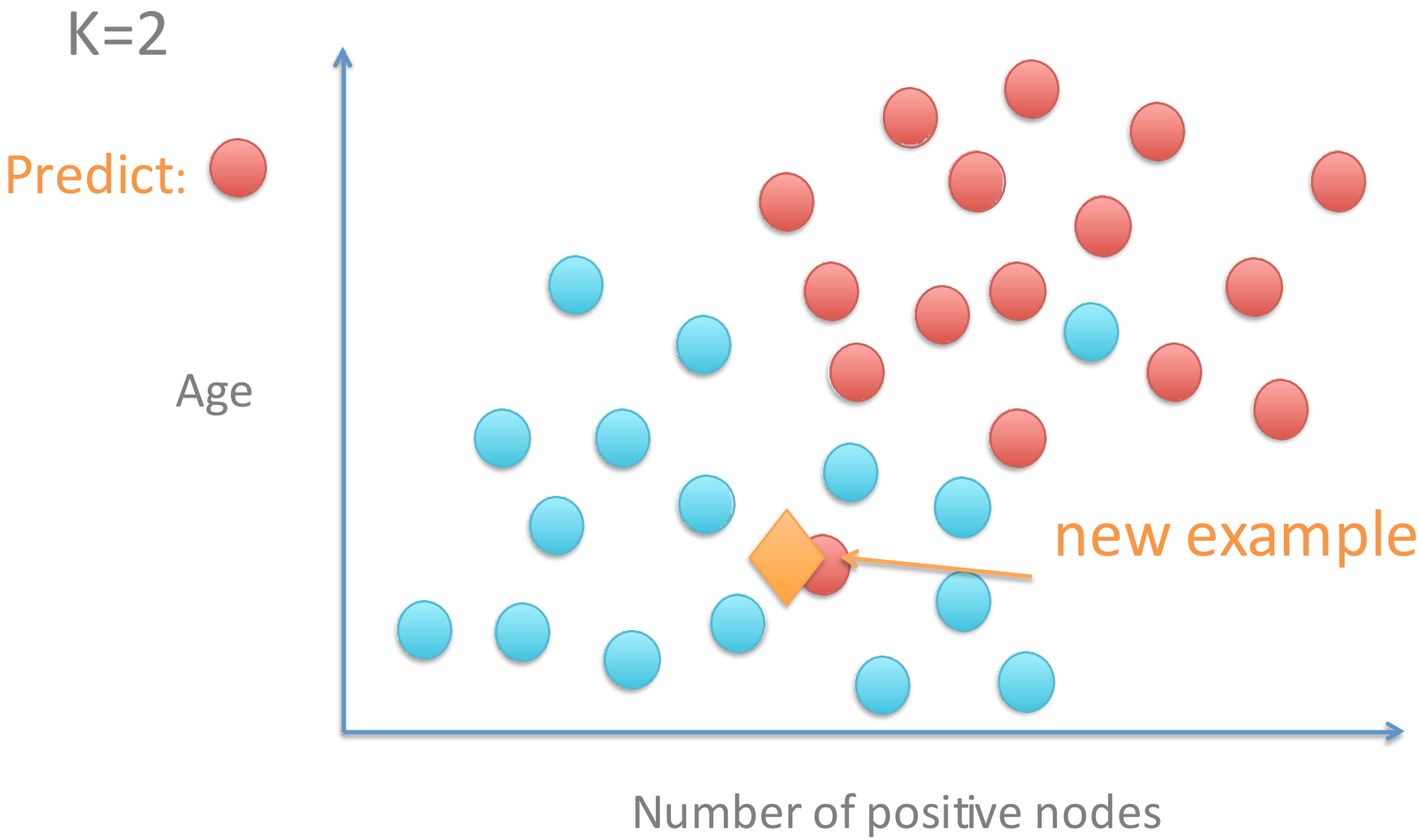
K Nearest Neighbors



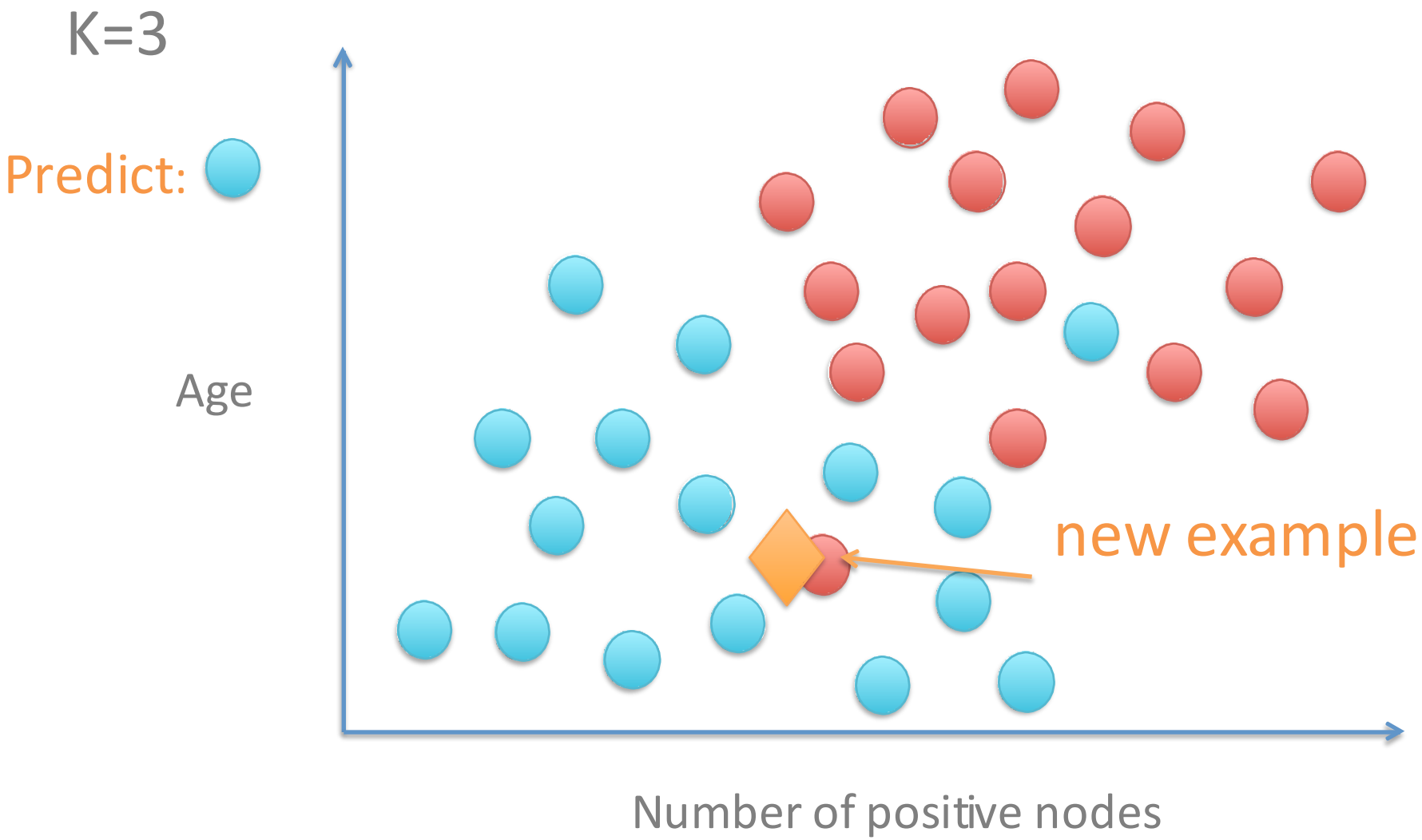
K Nearest Neighbors



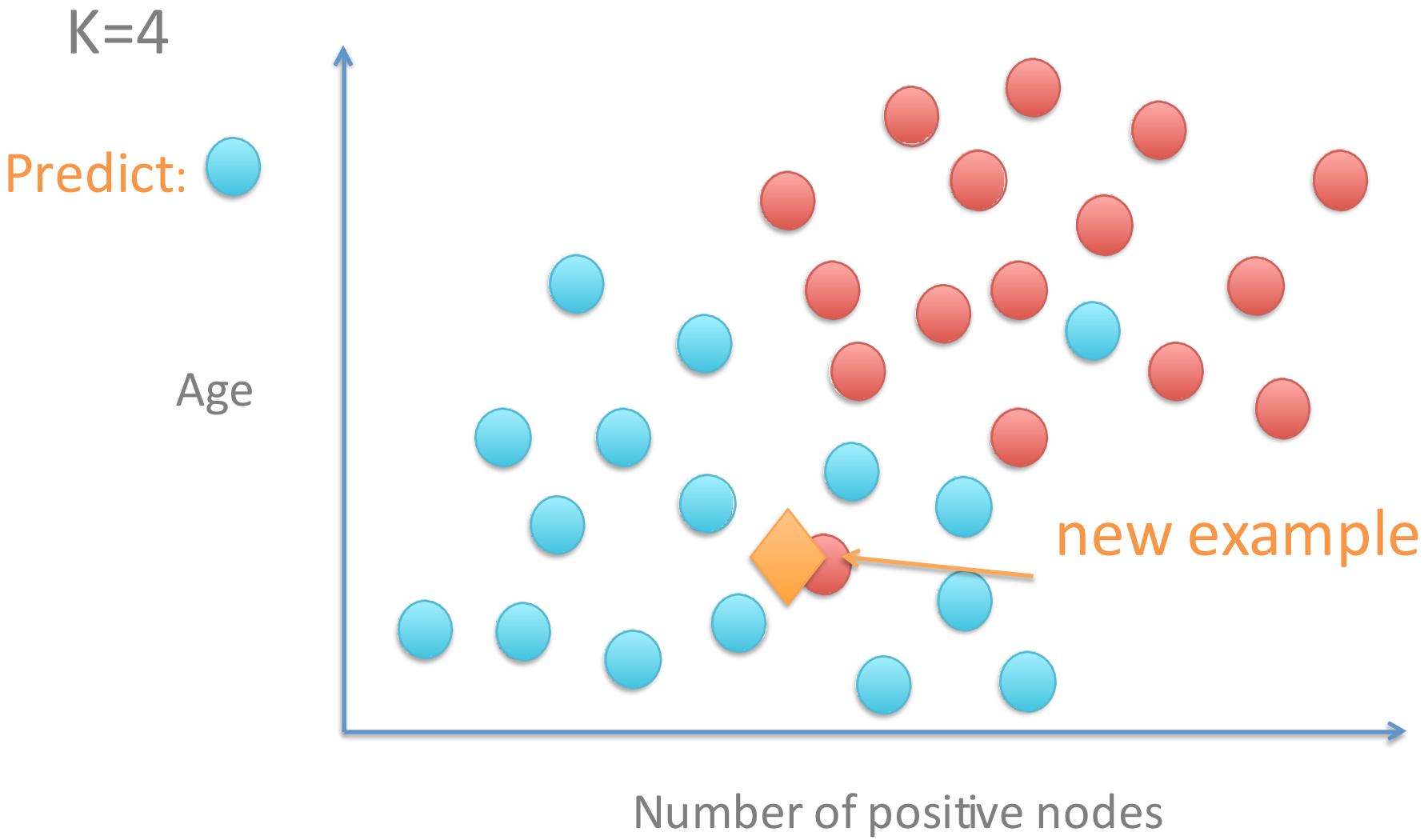
K Nearest Neighbors



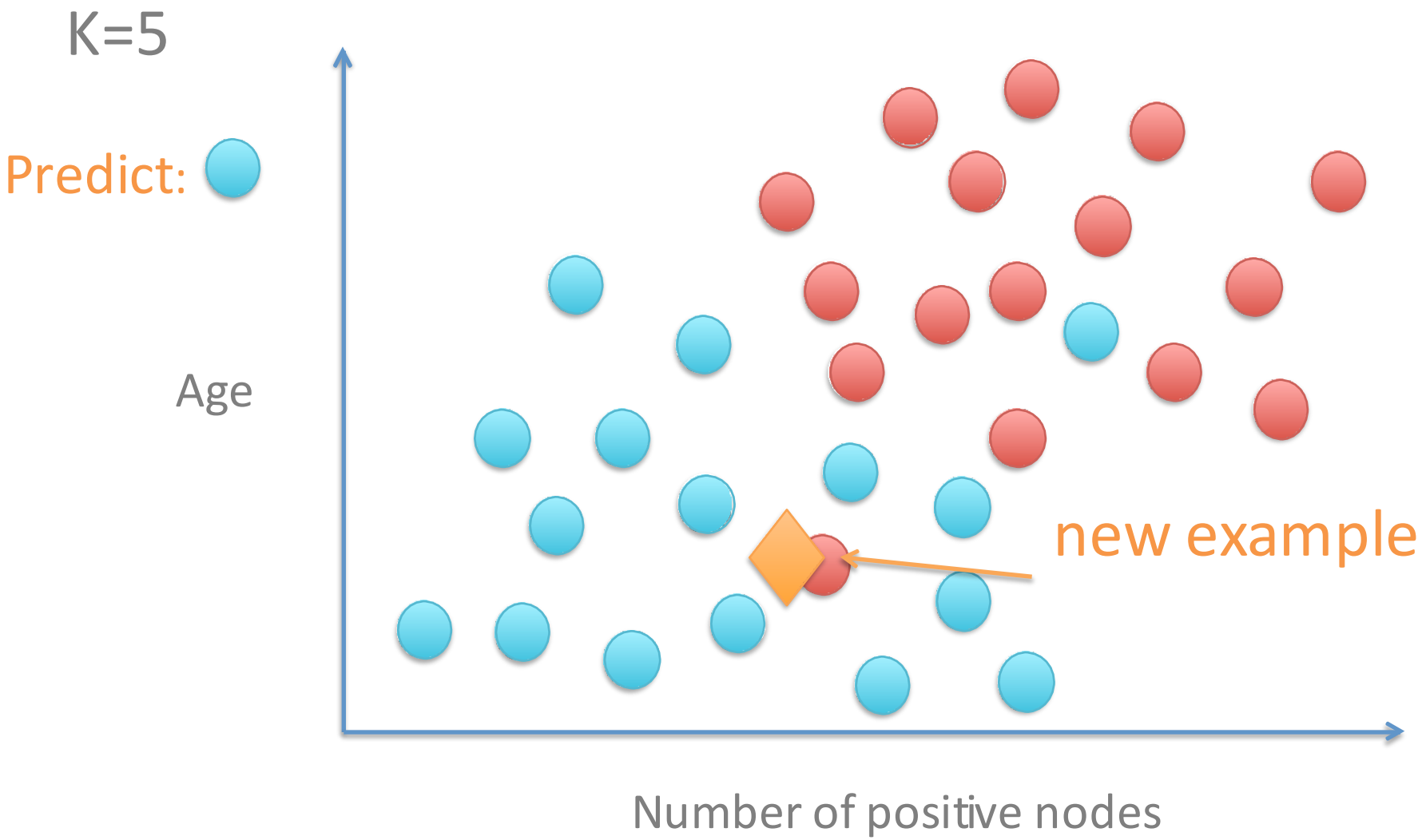
K Nearest Neighbors

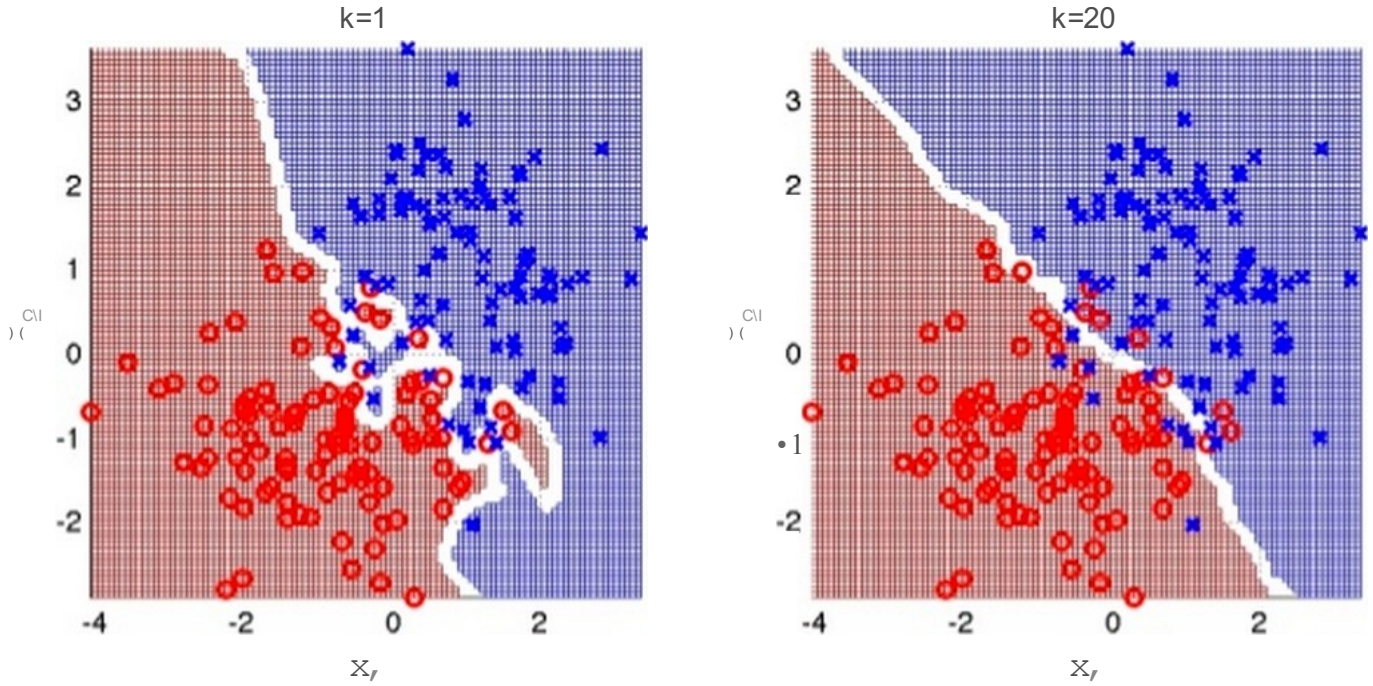


K Nearest Neighbors



K Nearest Neighbors




k=1
k=20
3
2
1
0
-1
-2
-4
-2
0
2
X1

```
from sklearn.neighbors import KNeighborsClassifier
```