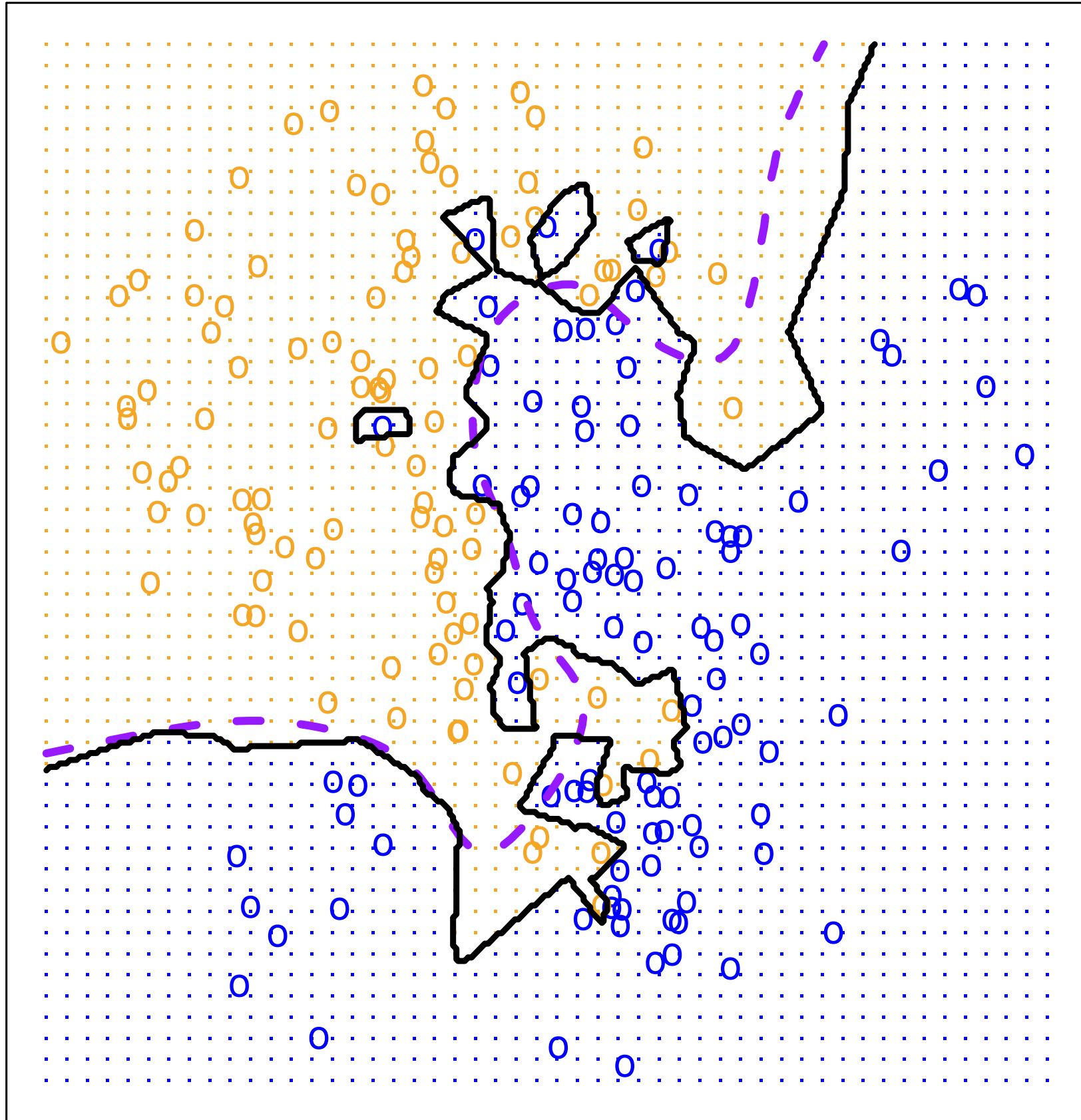


TheParameterK

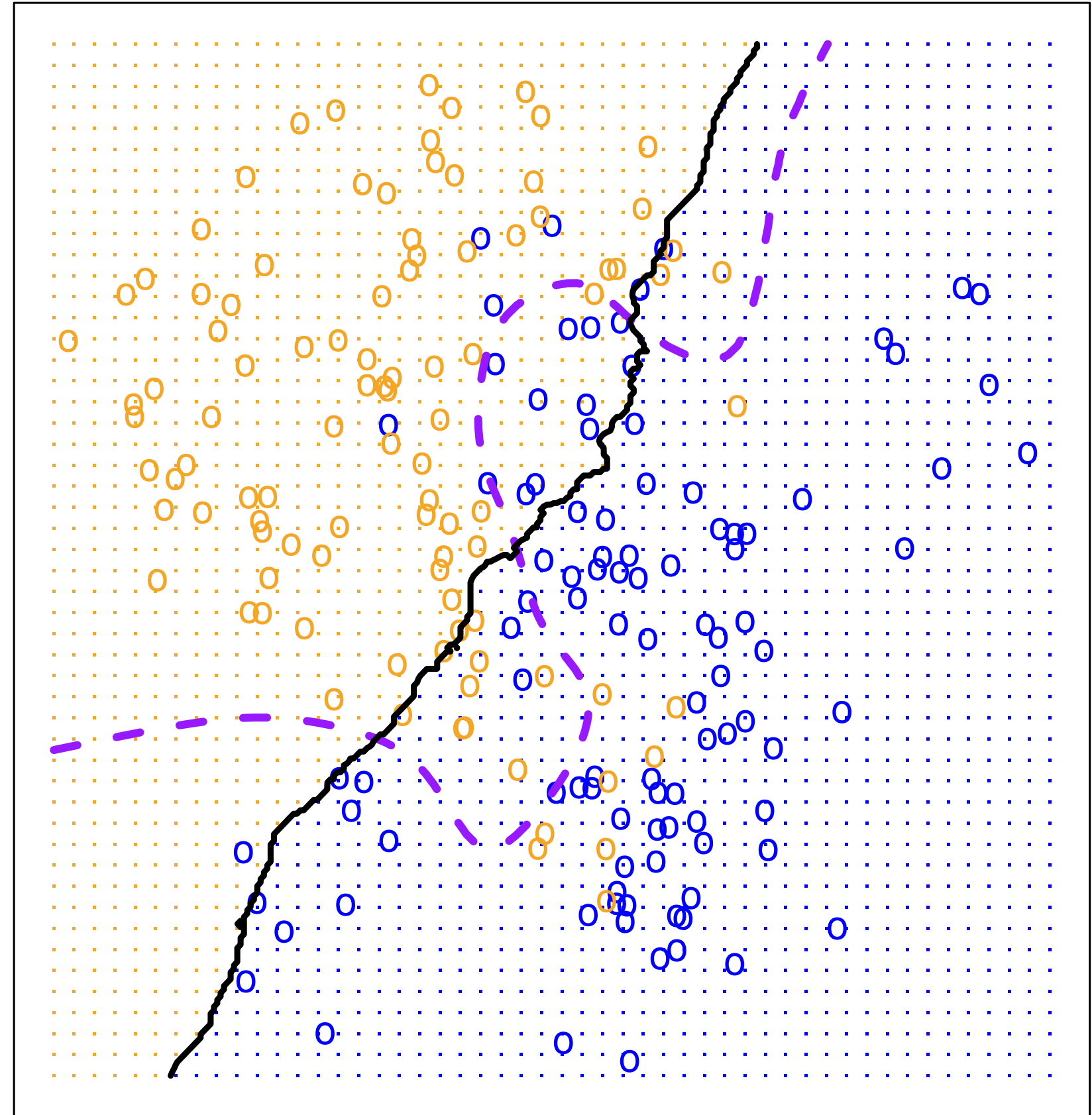
- Smaller $K \Rightarrow$ Less smooth and more sensitive to noise (more flexible)

- Larger $K \implies$ More smooth (less flexible)

KNN: K=1



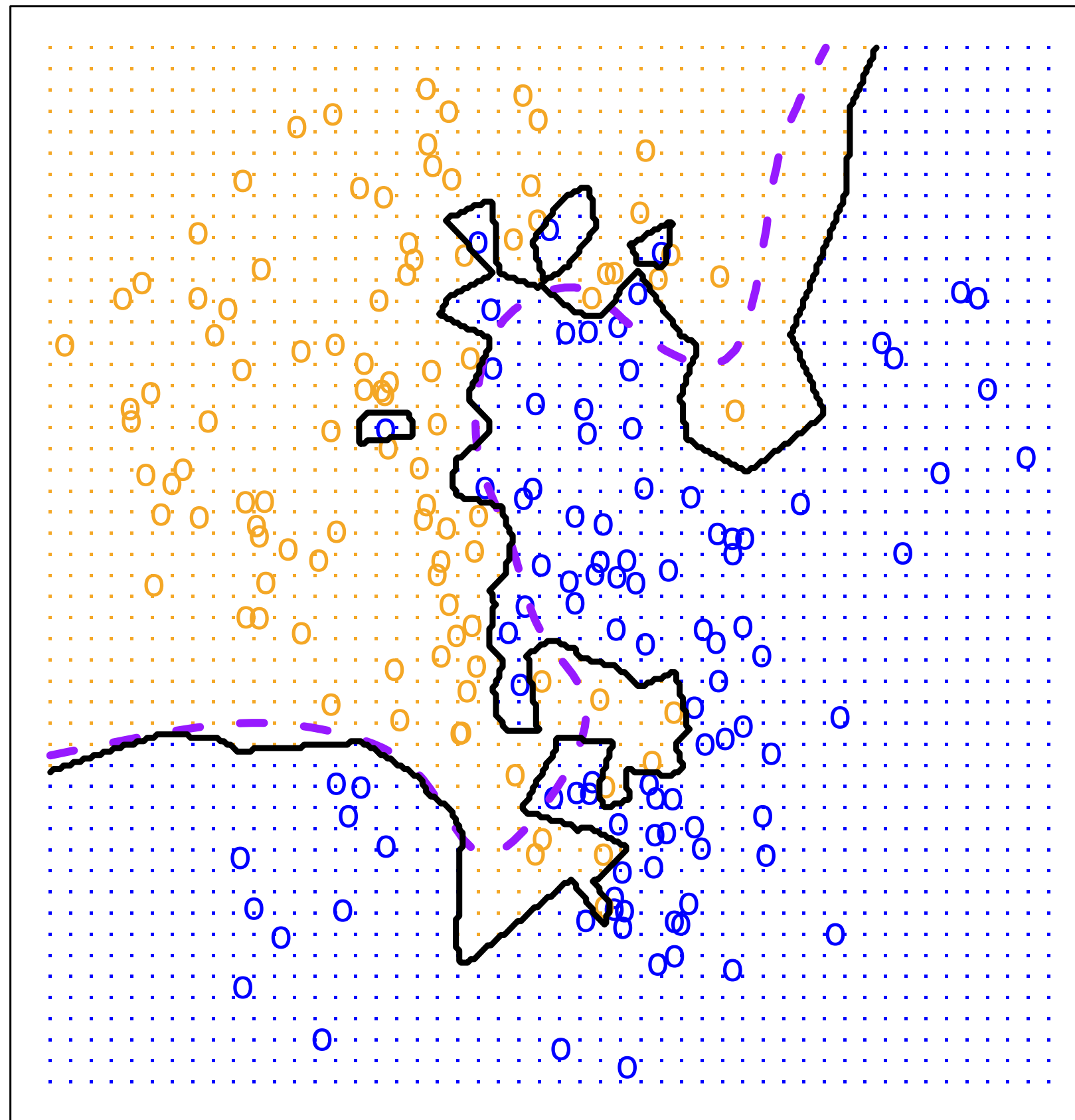
KNN: K=100



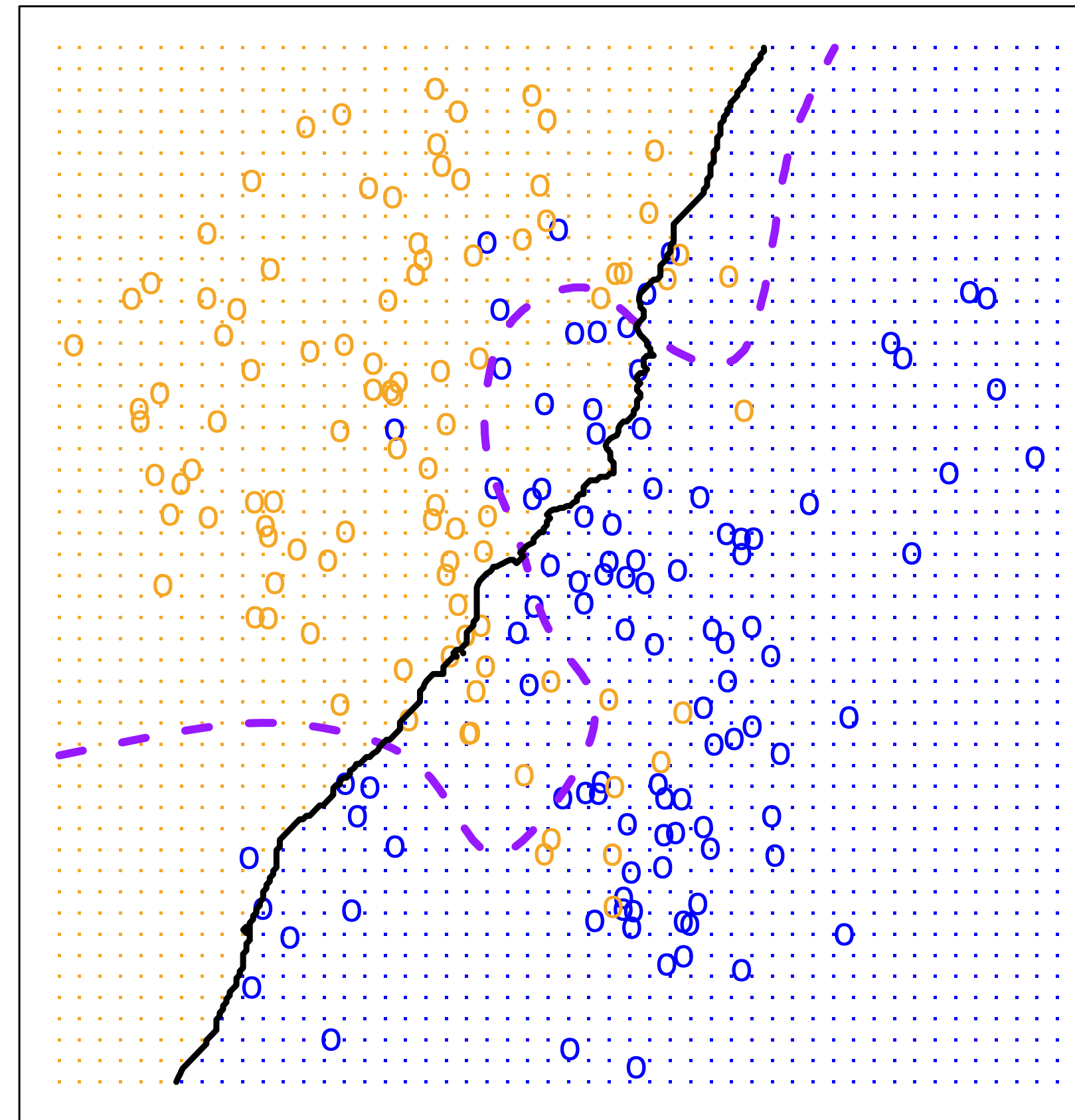
The Parameter K

- Smaller $K \implies$ Less smooth and more sensitive to noise (more flexible)
- Larger $K \implies$ More smooth (less flexible)

KNN: $K=1$



KNN: $K=100$



[Source: ISLR2]

The Hyperparameter K