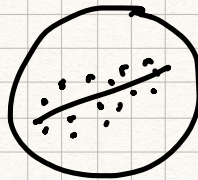# Complexity of Hyperparameters

How to turn complexity up
or down in Orange
Models

LINEAR REGRESSION WIDGET
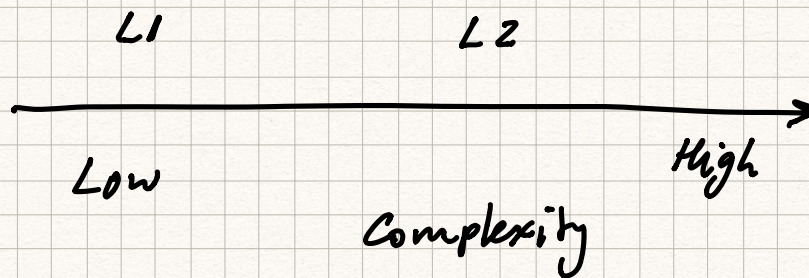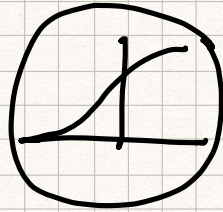

L1 (Lasso)   L2 (Ridge)   No Regularization
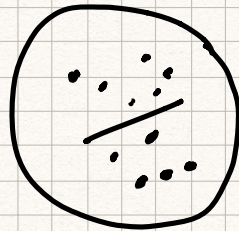
Low   Complexity   High

as   Alpha increases, Complexity decreases.

LOGISTIC REGRESSION WIDGET

L1   L2

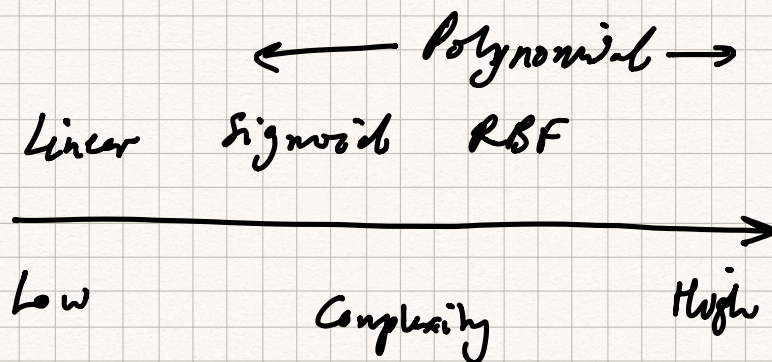Low   High

Complexity
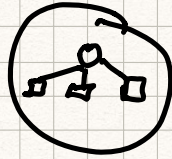
As C decreases Complexity decreases

SVM WIDGET

SVM and v-SVM don't change
complexity. They're ways to change the
the precision/recall values of the
model.

For the SVM model, a high Cost and
low ε or ν makes the model more.
Complex.

←——— Polynomial ——→

Linear   Sigmoid   RBF

←————————————————————→

Low   Complexity   High

Tree WIDGET

	Setting	Complexity
Induce Binary Tree	✓	↓
Min # of instances in leaves	↑	↑
Do not split subsets smaller than	↑	↓
Limit maximal tree depth to	↑	↑
Stop when majority reaches X %	↓	↓

NEURAL NETWORK WIDGET

Neurons per hidden layer — the more
layers, the more neurons per layer ⟹
more Complexity.

← Regularization

As Alpha increases, Complexity decreases

As Max Iterations decreases, Complexity decreases