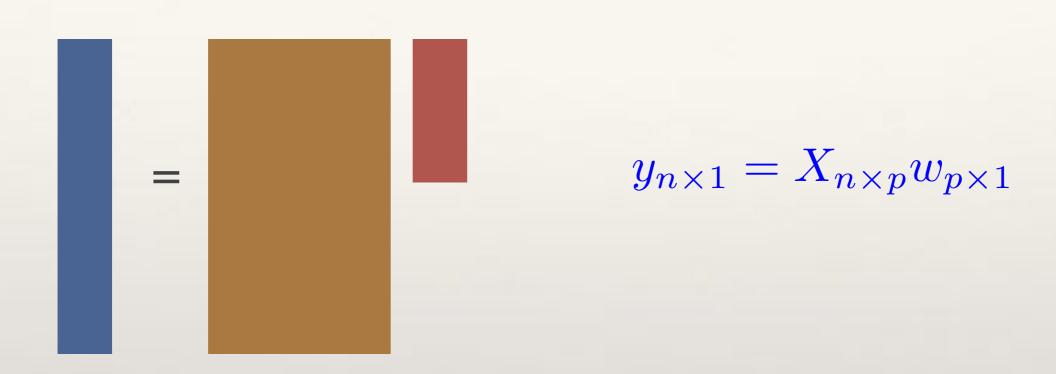
Curse of Dimensionality

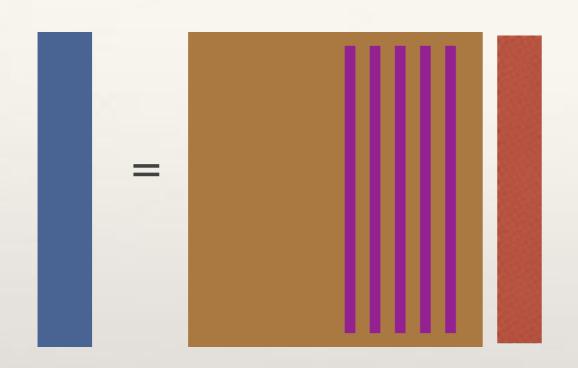
- * Curse of Dimensionality in Classification:
 - * 1NN (one-nearest-neighbor) predicts perfectly on the training data
 - * Illustration on how dimensionality changes the performance of linear classifiers: http://www.visiondummy.com/2014/04/cursedimensionality-affect-classification/

Curse of Dimensionality



Curse of Dimensionality in Regression

Curse of Dimensionality



$$y_{n\times 1} = X_{n\times n} w_{n\times 1}$$

n equations and n parameters
Perfect fit on the training data!