

Short (15-minute) quiz on Wednesday

- You should know:
 - How to calculate the output of a perceptron on a given input.
 - How to sketch a line represented by a given perceptron.
 - How to design a perceptron for a 2D (linearly separable) boolean function
 - Definition of sum-squared error
 - The perceptron training algorithm
 - The difference between “true” and “stochastic” gradient descent

- The roles of training, validation, and test data sets.
- The definition of overfitting, and some causes
- The tradeoffs between using a high vs. low learning rate
- The definition of “momentum” in neural network learning
- The definition of “regularization” in neural network learning
- The k-fold cross-validation algorithm (as described in class)