

## Mismatched training and dev/test data

Bias and Variance with mismatched data distributions

## Cat classifier example

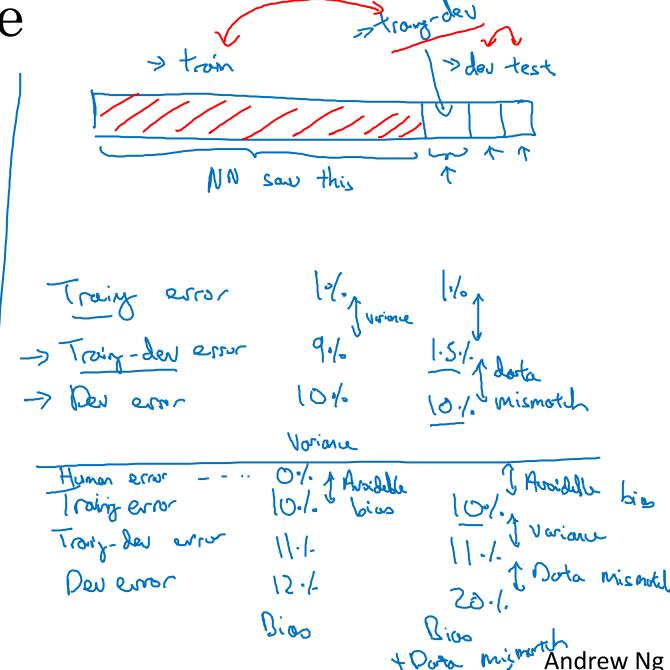
Assume humans get  $\approx 0\%$  error.

Training error

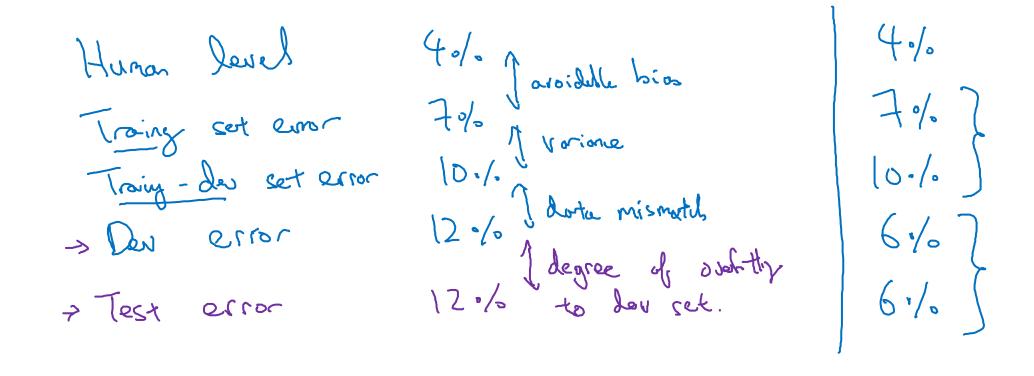
Dev error

10%

Training-dev set: Same distribution as training set, but not used for training



## Bias/variance on mismatched training and dev/test sets



## More general formulation

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