

Outline

- Lossless data compression

- The guessing game

- Arithmetic coding

- The performance of arithmetic coding

- Source entropy

- Other properties of log loss

 - Unbiased prediction

 - Other examples for using log loss

- universal coding

 - Two part codes

 - Combining expert advice for cumulative log loss

- Combining experts in the log loss framework

- The online Bayes Algorithm

- The performance bound