



Why Language is Hard: Structure and Predictions

Introduction to Data Science Algorithms
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(NOT ON FINALI)

Administrivia

- Not on final (but using concepts from course)
- Preview of other courses: 5622, 5832 (often cross-listed with UG)
- · CLIP: focus group for second half of class
- HW1 Due today!

Logistic Regression

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SVM

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- Hint: $p(y_i, y_i | x_i, x_i) = p(y_i | x_i) p(y_i | x_i)$

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- What statistical property do these (and many others share)?
- Hint: $p(y_i, y_j | x_i, x_j) = p(y_i | x_i) p(y_j | x_j)$
- Independent!

Is this how the world works?



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Also particularly relevant for 2016: correlated voting patterns

Structured Prediction

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- Focus: part of speech tagging