GCT561 Scientific concept and thinking

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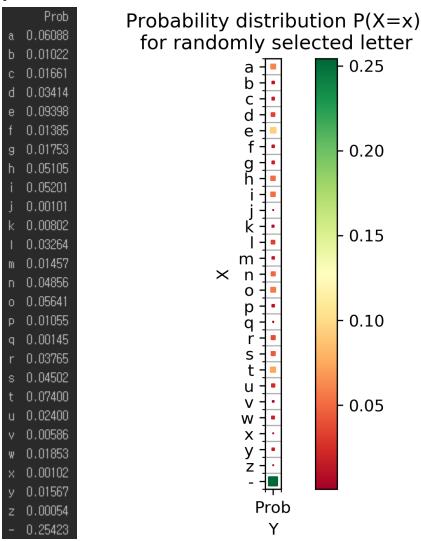
HW1: Probability

0. English text

- · "Alice's Adventures in Wonderland by Lewis Carroll 1865" in nltk.gutenberg package
- Length of the text: 144,395

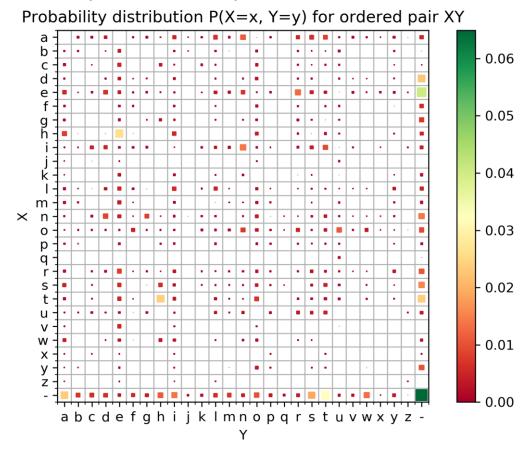
1. Find the probabilities of each character

Probability distribution P(x)



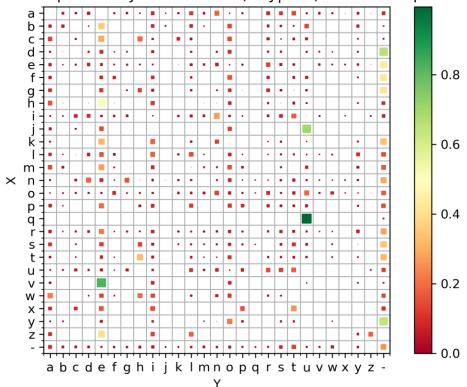
2. Find the probabilities of each bigram

· Probability distribution P(x,y)



· Conditional probability distribution P(y|x)

Conditional probability distribution P(Y=y|X=x) for ordered pair XY



· Conditional probability distribution P(x|y)

Conditional probability distribution P(X=x|Y=y) for ordered pair XY

