Announcements

• No Reading for next time
• Review Chapter 7 looping
Random Text Generation: n-gram

• Given a text source (book)
  this history of mish mash
  is a bit tristy.

• Pick an n-gram (random string length n)
  – This will start generation of random text that is similar in feel to the original text

• Example: 2-gram from above: is
Predictors

• What are predictors for “is”?
  \[\text{this}_\text{history} \text{ of mish}_\text{mash}\]
  \[\text{is}_\text{a bit tristy}.\]

• Predictors: “ “, t, h, “ “ t

• Pick one of them and add on to predictor

• Say t is picked

• “ist”

• Use last n-1 char plus chosen letter as new predictor.
Generating random Text

- Ngram “is” – predictors(“ “ t, h, “ “, t)
  - Pick t - result is “ist”
- Ngram “st” – predictors(o, y)
  - Pick o – result is “isto”
- Ngram “to” – predictors (r)
  - Pick r result is “istor”
Classwork Today

• Generate Random Text using ngrams