# **Chapter 2:** [**https://www.nltk.org/book/ch02.html**](https://www.nltk.org/book/ch02.html)

**Question 4**: ☼ Read in the texts of the *State of the Union* addresses, using the state\_union corpus reader. Count occurrences of men, women, and people in each document. What has happened to the usage of these words over time?

* “men”: 232 “women”: 145 “people”: 1313
* The trend regarding the usage of the words “men” and “women” have remained fairly similar, fluctuating at the same rate. However, the frequency of the usage of “people” is generally higher than that of “men” and “women”.

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**Question 5**: ☼ Investigate the holonym-meronym relations for some nouns. Remember that there are three kinds of holonym-meronym relation, so you need to use: member\_meronyms(), part\_meronyms(), substance\_meronyms(), member\_holonyms(), part\_holonyms(), and substance\_holonyms().

**Question 7**: ☼ According to Strunk and White's *Elements of Style*, the word *however*, used at the start of a sentence, means "in whatever way" or "to whatever extent", and not "nevertheless". They give this example of correct usage: *However you advise him, he will probably do as he thinks best.* (http://www.bartleby.com/141/strunk3.html) Use the concordance tool to study actual usage of this word in the various texts we have been considering. See also the *LanguageLog* posting "Fossilized prejudices about 'however'" at <http://itre.cis.upenn.edu/~myl/languagelog/archives/001913.html>

* Analyzing “austen-emma.txt”, “austen-persuasion.txt”, and “austen-sense.txt” the work “however” was used to convey a contradiction most of the time as opposed to Strunk and White’s definition of it as “in whatever way”. Furthermore, however was almost always used mid-sentence as opposed to how Strunk and White used it at the beginning of the sentence.

**Question 12**: ◑ The CMU Pronouncing Dictionary contains multiple pronunciations for certain words. How many distinct words does it contain? What fraction of words in this dictionary have more than one possible pronunciation?

# **Chapter 3:**

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# **Chapter 6:**

**2) In Chapter 2, complete exercises 4, 5, 7, 9, 12, 17, 18, 23, and 27.**

**3) In Chapter 3, complete exercises 20 and 22.**

**4) In Chapter 6, complete exercise 4.**

**5) Judiciously truncate any long output (ie, just copy/paste the first and last few outputs with a “...” in between)**

**and put all of your answers into a document.**