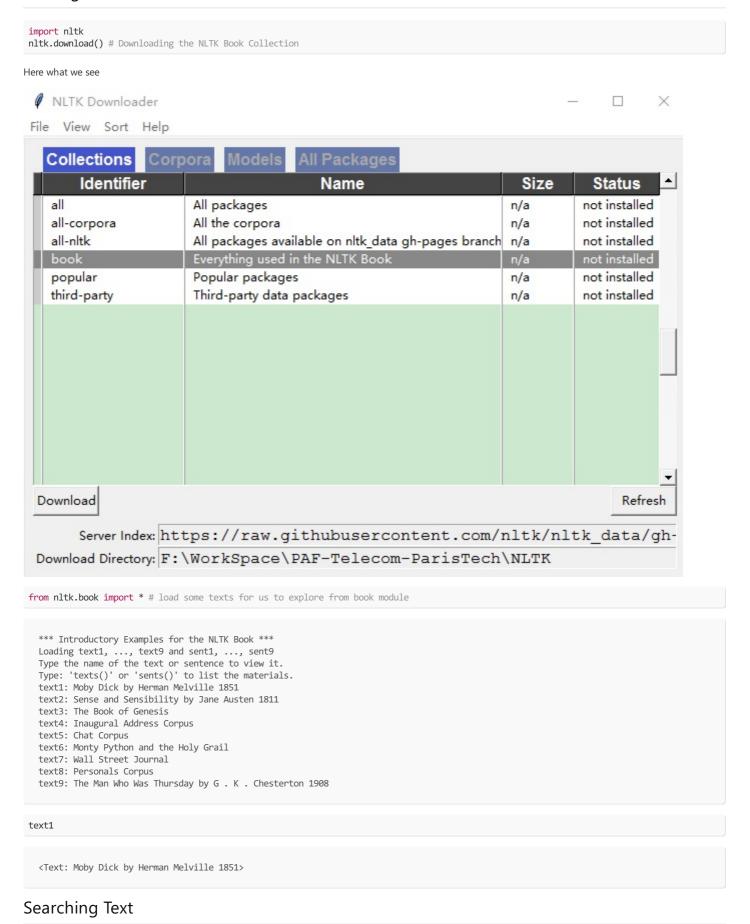
## Chapiter\_1 Language Processing and Python

## Getting Started with NLTK



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• concordance shows us every occurrence of a given word, together with some context.

text1.concordance('monstrous')

Displaying 11 of 11 matches: ong the former , one was of a most monstrous size . . . . This came towards us , ON OF THE PSALMS . " Touching that monstrous bulk of the whale or ork we have r ll over with a heathenish array of monstrous clubs and spears . Some were thick d as you gazed , and wondered what monstrous cannibal and savage could ever hav that has survived the flood; most monstrous and most mountainous! That Himmal they might scout at Moby Dick as a monstrous fable , or still worse and more de th of Radney .'" CHAPTER 55 Of the Monstrous Pictures of Whales . I shall ere l ing Scenes . In connexion with the monstrous pictures of whales , I am strongly ere to enter upon those still more monstrous stories of them which are to be fo ght have been rummaged out of this monstrous cabinet there is no telling . But of Whale - Bones ; for Whales of a monstrous size are oftentimes cast up dead u

• similar shows what other words appear in a similar range of contexts

text2.similar('monstrous')

very heartily so exceedingly a as great amazingly good vast sweet extremely remarkably

• common\_contexts allows us to examine the contexts shared by two or more words

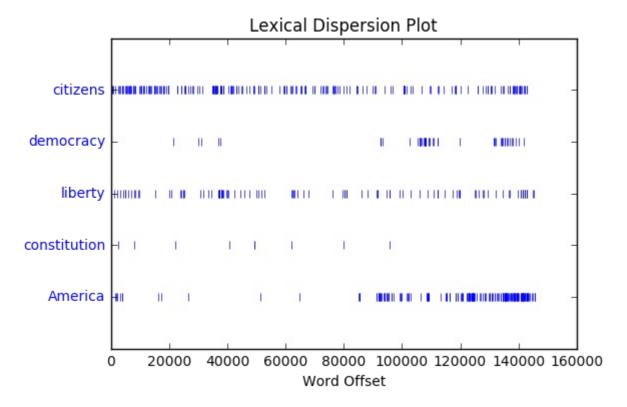
text2.common\_contexts(['monstrous', 'very'])

be\_glad a\_pretty am\_glad is\_pretty a\_lucky

• dispersion\_plot determines the spatial location of a word in the text

for frequency of word usage through time, look at here

text4.dispersion\_plot(["citizens", "democracy", "liberty", "constitution", "America"])



## Counting Vocabulary

Use the term len to get the length of text.

len(text3)
44764

So it has 44,764 words and punctuation symbols, or "tokens".

**Token** is the technical name for a sequence of characters that we want to treat as a group.

**Word type** is the word considered as a unique item of vocabulary. If what we find includes punctuation symbols, then we will generally call these unique items *types* instead of *word types*.

len(set(text3)) # Use sorted(set(text3)) to see all types
2789

len(set(text3)) / len(text3) # measure of the lexical richness of the text

0.06230453042623537

text3.count("smote") # how often a word occurs in a text

5