* **Text-based** communication has become one of the most common forms of expression. We email, text message, tweet, and update our statuses on a daily basis. As a result, **unstructured text data**has become **extremely common**, and ***analyzing large quantities of text data*** is now a key way to understand what people are thinking.
* **Tweets**on Twitter help us find ***trending news topics*** in the world. **Reviews**on Amazon help users purchase the **best-rated products**. These examples of organizing and structuring knowledge represent **Natural Language Processing (NLP)** tasks.
* **NLTK**is a library in Python.
* The idea of **Natural Language Processing** is to do some form of analysis, or processing, where the machine can understand, at least to some level, what the **text means,** **says**, or **implies**.
* It is a library for **natural language processing**.
* NLTK stands for **Natural Language Tool Kit.**
* The process of **breaking down text**into smaller pieces is called **Tokenization**.
* **NLP** is **interacting with machines** the same as one interacts with other **human beings.**
* Recall that **we speak text**or words and **computers speak numbers**. We have to turn those words into numbers.