



FREE eBook

LEARNING stanford-nlp

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#stanford-
nlp

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About

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Chapter 1: Getting started with stanford-nlp

Remarks

This section provides an overview of what stanford-nlp is, and why a developer might want to use it.

It should also mention any large subjects within stanford-nlp, and link out to the related topics. Since the Documentation for stanford-nlp is new, you may need to create initial versions of those related topics.

Examples

Basic Setup from Official Release

This example goes over how to set up CoreNLP from the latest official release. This example will take you through downloading the package, and running a simple command-line invocation of CoreNLP.

Prerequisites:

- Java JVM 8. The command `java -version` should complete successfully with a line like: `java version "1.8.0_92"`.
- Zip tool
- For the example: Bash or similar shell, and `wget`

Steps:

1. Download the CoreNLP zip file at: <http://stanfordnlp.github.io/CoreNLP/index.html#download>
:

```
wget http://nlp.stanford.edu/software/stanford-corenlp-full-2015-12-09.zip
```

2. Unzip the release:

```
unzip stanford-corenlp-full-2015-12-09.zip
```

3. Enter the newly unzipped directory:

```
cd stanford-corenlp-full-2015-12-09
```

4. Set up your classpath. If you're using an IDE, you should set the classpath in your IDE.

```
for file in `find . -name "*.jar"`; do export CLASSPATH="$CLASSPATH:`realpath $file`";  
done
```

If you'll be using CoreNLP frequently, this is a useful line to have in your `~/.bashrc` (or equivalent) file, replacing the directory `/path/to/corenlp/` with the appropriate path to where you unzipped CoreNLP:

```
for file in `find /path/to/corenlp/ -name "*.jar"`; do export CLASSPATH="$CLASSPATH:`realpath $file`"; done
```

5. Try it out! For example, the following will make a simple text file to annotate, and run CoreNLP over this file. The output will be saved to `input.txt.out` as a JSON file. Note that CoreNLP requires quite a bit of memory. You should give it at least 2GB (`-mx2g`) in most cases.

```
echo "the quick brown fox jumped over the lazy dog" > input.txt  
java -mx2g edu.stanford.nlp.pipeline.StanfordCoreNLP -outputFormat json -file input.txt
```

Basic Setup from GitHub

This example goes over how to set up CoreNLP from the [GitHub repo](#). The GitHub code has newer features than the official release, but may be unstable. This example will take you through downloading, building, and running a simple command-line invocation of CoreNLP.

Prerequisites:

- Java 8 or newer.
- [Apache Ant](#)
- Git
- For the example: Bash or similar shell, and `wget` or `curl`

Steps:

1. Clone the CoreNLP Git repository:

```
git clone git@github.com:stanfordnlp/CoreNLP.git
```

2. Enter the CoreNLP directory:

```
cd CoreNLP
```

3. Build the project into a self-contained jar file. The easiest way to do this is with:

```
ant jar
```

4. Download the latest models.

```
wget http://nlp.stanford.edu/software/stanford-corenlp-models-current.jar
```

Or using `curl` (what you get by default on macOS):

```
curl -O http://nlp.stanford.edu/software/stanford-corenlp-models-current.jar
```

5. Set up your classpath. If you're using an IDE, you should set the classpath in your IDE.

```
export CLASSPATH="$CLASSPATH:javanlp-core.jar:stanford-corenlp-models-current.jar";  
for file in `find lib -name "*.jar"`; do export CLASSPATH="$CLASSPATH:`realpath $file`";  
done
```

If you'll be using CoreNLP frequently, this is a useful line to have in your `~/.bashrc` (or equivalent) file, replacing the directory `/path/to/corenlp/` with the appropriate path to where you unzipped CoreNLP (3 replacements):

```
export CLASSPATH="$CLASSPATH:/path/to/corenlp/javanlp-core.jar:/path/to/corenlp/stanford-  
corenlp-models-current.jar";  
for file in `find /path/to/corenlp/lib -name "*.jar"`; do export  
CLASSPATH="$CLASSPATH:`realpath $file`"; don
```

6. Try it out! For example, the following will make a simple text file to annotate, and run CoreNLP over this file. The output will be saved to `input.txt.out` as a JSON file. Note that CoreNLP requires quite a bit of memory. You should give it at least 2GB (`-mx2g`) in most cases.

```
echo "the quick brown fox jumped over the lazy dog" > input.txt  
java -mx2g edu.stanford.nlp.pipeline.StanfordCoreNLP -outputFormat json -file input.txt
```

Read [Getting started with stanford-nlp online](https://riptutorial.com/stanford-nlp/topic/4122/getting-started-with-stanford-nlp): <https://riptutorial.com/stanford-nlp/topic/4122/getting-started-with-stanford-nlp>

Credits

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