Installation

This page will guide you through installing Quails and its dependencies on a unix-based operating system. Quails currently only supports python 2.7.6. The next iteration will automatically install all dependencies.

These instructions have been used to install Quails on a fresh Ubuntu Server 14.04.2 LTS. If you run into any errors during the process, please send me an email at `leblanc at drexel dot edu`.

View the git project at

```
https://github.com/el9335/QUAILS_1.0
```

Download the project from your terminal using

```
git clone https://github.com/el9335/QUAILS_1.0
```

See step 9 below for command to install git if necessary.

Steps to install dependencies

Perform these operations in the QUAILS_1.0 directory after cloning the repository.

One of the dependencies requires Java, so if it is not already installed on your machine, install using the following:

```
sudo apt-get install default-jre-<your_version>
```

1. Install pip

```
sudo apt-get install python-pip
```

2. Install python-dev

```
sudo apt-get install python-dev
```

3. Install Python's ConfigParser

```
sudo pip install configparser
```

4. Install the Python Requests library

```
sudo pip install requests
```

5. Install the Flask RESTful server library

```
sudo pip install flask
```

6. Install Natural Language ToolKit

```
sudo pip install nltk
```

7. From the command line open a Python interpreter instance and enter the following lines:

```python
import nltk
nltk.download('all')
```

Something in the nltk download script causes it to fail, so if/when it happens, just exit the interpreter. The next version will include a workaround to shield the user from this issue.

8. Install pexpect, unidecod, and jsonrpclib, all required to run the Stanford Core libraries.

```
sudo pip install pexpect unidecode jsonrpclib
```

9. Install git (if not already installed)

```
sudo apt-get install git
```

10. Install the corenlp-python library

```
git clone https://bitbucket.org/torotoki/corenlp-python.git
cd corenlp-python.git
sudo python setup.py install
```

11. Install the Stanford Core NLP Jars (`sudo apt-get install wget` if not already installed)

```
wget http://nlp.stanford.edu/software/stanford-core-nlp-full-2014-08-27.zip
unzip stanford-corenlp-full-2014-08-27.zip
```

You may need to install unzip depending on the machine you are installing on.

```
sudo apt-get install unzip
```

12. Install numpy, scipy, and sklearn

```
sudo apt-get install python-numpy python-scipy
sudo pip install scikit-learn
```

13. Install whoosh text indexer for Python

```
sudo pip install whoosh
```

14. Start the server

```
python serv.py
```

15. Refer to the Asking a Question section of this documentation to continue working with quails.