

Installation and configuration of the Simplify backend/hosted API

Requirements:

Apache 2.x + PHP5 support/module
NLTK, requires Python version 2.6-2.7

Installing NLTK (Windows):

Install Python: <http://www.python.org/download/releases/2.7.3/>
Install Numpy: <http://sourceforge.net/projects/numpy/files/NumPy/1.6.2/numpy-1.6.2-win32-superpack-python2.7.exe>
Install NLTK: <http://pypi.python.org/pypi/nltk>
Install PyYAML: <http://pyyaml.org/wiki/PyYAML>
Test installation: Start>Python27, then type 'import nltk'

Installing NLTK (Linux/Mac):

From the terminal type python -V to make sure python 2.6 or 2.7 is installed
Install Pip: 'sudo aptitude install python-dev python-pip'
Install Numpy: 'sudo pip install -U numpy'
Install PyYAML and NLTK: 'sudo pip install -U pyyaml nltk'
Test installation: run python then type 'import nltk'

Installing the NLTK Data:

Please perform the following from an administrator account.

Run the Python interpreter and type the commands:

```
>>> import nltk
>>> nltk.download()
```

A new window should open, showing the NLTK Downloader. Click on the File menu and select Change Download Directory. For central installation, set this to C:\nltk_data (Windows), or /usr/share/nltk_data (Linux, Mac). Next, select the wordnet package for download.

If you did not install the data to one of the above central locations, you will need to set the NLTK_DATA environment variable to specify the location of the data. (On a Windows machine, right click on "My Computer" then select Properties > Advanced > Environment Variables > User Variables > New...)

Test that the data has been installed as follows:

```
>>> from nltk.corpus import wordnet as wn
>>> wn.synsets('example')
[Synset('example.n.01'), Synset('model.n.07'), Synset('exemplar.n.01'),
Synset('example.n.04'), Synset('case.n.01'), Synset('exercise.n.04')]
```

Now you should validate everything with a call to:

[http://\(your_site_and_path\)/getsyns.php?q=example](http://(your_site_and_path)/getsyns.php?q=example) – this should return:

```
callback(["word: 'example'", "pos: 'n'",
["illustration", "instance", "representative"], "pos: 'n'", ["model"], "pos: 'n'",
["exemplar", "model", "good_example"], "pos: 'n'",
["deterrent_example", "lesson", "object_lesson"], "pos: 'n'",
["case", "instance"], "pos: 'n'", ["exercise"]])
```