System Setup Guide for Workshop Practice

Björn Rudzewitz
brzdwtz@sfs.uni-tuebingen.de

Xiaobin Chen
xiaobin.chen@uni-tuebingen.de

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This guide walks you through the installation of a developmental environment for working on the exercises offered at the workshop on NLP and the Analysis of Language Productions for Language Learning at the CALICO 2017. All participants of the workshop are highly recommended to install all the software listed below before coming to the workshop. In case of problems with the system setup, we also offer on-site assistance at the workshop before we work on the exercises.

1 Java Development Kit (JDK 1.8)

We will use UIMA in combination with the **Java** programming language. One easy way to test whether JDK has been installed on your machine is to run `javac -version` from the command line or terminal. If your system responds with something similar to "javac 1.8.x", you have JDK installed. Otherwise, use your system package manager or this link to install the JDK.

2 Eclipse—An Integrated Development Environment

Although not mandatory for UIMA, which is the framework for constructing analysis pipelines to be introduced in the workshop, for our hands-on sessions you should install a **Java-compatible IDE**. We highly recommend **Eclipse** (link), since there are useful UIMA plugins for Eclipse.

3 UIMA Plugin for Eclipse

Install from Eclipse Marketplace: start Eclipse and go to *Help* → *Install New Software*. Enter the following url: `http://www.apache.org/dist/uima/eclipse-update-site/` in the "Work with" textbox and select at least **UIMA Runtime and UIMA Tools (includes Runtime)** from the list. Follow the installation instructions by clicking the Next button.

4 Maven Plugin for Eclipse

Install from Eclipse Marketplace: start Eclipse and go to *Help* → *Install New Software*. Enter the following url: `http://download.eclipse.org/technology/m2e/releases` to install the Maven plugin.

5 Import the Exercise Project

Download the tutorial project code from this link or if you use git, use the following command in the command line environment:

```
$ git clone https://github.com/chxiaobin/lexical_density.git
```

If you downloaded the zip package, unzip it in your local folder. Import the project into Eclipse by choosing from the Eclipse menu: **File** → **Import...**. Select import **Maven / Existing Maven Projects** and then navigate to the folder where you put the downloaded project code.

Now you have a project called lexicalDensity in your Eclipse's Package Explorer.