

UIMA Installation Guide

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Abstract

This document explains how to install and setup UIMA. In addition, it provides an installation guide for UIMAFit, a library that makes UIMA processing much more comfortable compared to pure UIMA. In order to have examples for NLP tools, this document also explains how to install the OpenNLP UIMA tools.

1 UIMA Prerequisites

- UIMA is a **Java** framework. If you haven't installed Java, get it from here ([link](#)).
- Although not mandatory for UIMA in general, for our hands-on session you should install a **Java-compatible IDE**. I highly recommend **Eclipse** ([link](#)), since there are useful UIMA plugins for Eclipse.

2 UIMA Core Installation

- Download the latest official **binaries** (version 2.8.1) from [here](#)
- Unpack the archive, move the contained folder *apache-uima/...* to your preferred place for installations
- Create an environment variable *UIMA_HOME* pointing to the *apache-uima* folder
Note: Eclipse often doesn't recognize external environment variables. I suggest you also create the *UIMA_HOME* environment variable in Eclipse under *Window* → *Preferences* → *Java* → *BuildPath* → *Classpath Variables* → *New*

2.1 UIMA Core Eclipse Plugin Installation

- 2 alternative ways for installing the plugins:
 1. Install from Eclipse Marketplace: got to *Help* → *Install New Software*, and use the following url: <http://www.apache.org/dist/uima/eclipse-update-site/>
 2. Check whether you have a folder *dropins* or *eclipsePlugins* in the Eclipse base directory.
From the aforementioned *apache-uima* folder, copy/paste the contents of the folder *exlipsePlugins* to this plugin folder

3 UIMAFit Installation

- Download the latest official **binaries** (version 2.2.0) from [here](#)
- Extract the archive, move the contained *uimafit-2.2.0* folder to your preferred place for installations
- Follow the procedure above for setting the environment variable *UIMAFIT_HOME* to the *uimafit-2.2.0* folder

4 NLP Tools Installation

- Get the OpenNLP binaries from [here](#)
- Unpack the archive to your preferred installation directory
- Set the environment variable `OPENNLP_HOME` to the opennlp installation directory, and add `$OPENNLP_HOME/bin` or `%OPENNLP_HOME%\bin` to the environment (make bin folder available at runtime)

References

David Ferrucci and Adam Lally. UIMA: an architectural approach to unstructured information processing in the corporate research environment. *Natural Language Engineering*, 10(3-4):327–348, 2004.

Philip Ogren and Steven Bethard. Building test suites for UIMA components. In *Proceedings of the Workshop on Software Engineering, Testing, and Quality Assurance for Natural Language Processing (SETQA-NLP 2009)*, pages 1–4, Boulder, Colorado, June 2009. Association for Computational Linguistics. URL <http://www.aclweb.org/anthology/W/W09/W09-1501>.