



University of Rome “Tor Vergata”

Technologies for Semantic Web development

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Development Environment

- Java SE Development Kit 8
(<http://www.oracle.com/technetwork/java/javase/downloads/index.html>)
 - Preferably, define the environment variable `JAVA_HOME` pointing to the installation directory
 - Linux users may consider the OpenJDK packages shipped by most distributions
- Apache Maven (<https://maven.apache.org/>)
- Eclipse (<http://www.eclipse.org/>)
 - Preferably, configure Eclipse to use a local Maven installation instead of the embedded one

- VocBench 3 (<http://vocbench.uniroma2.it/>)
 - Download *vocbench3_standalone-1.0.zip* from <https://bitbucket.org/art-uniroma2/vocbench3/downloads/>
- Protégé (<https://protege.stanford.edu/>)
 - Download Protégé Desktop (currently 5.2.0) from <https://protege.stanford.edu/products.php#desktop-protege>

RDF Middleware and Triple Stores

- RDF4J (<http://rdf4j.org/>)
 - We will use this middleware as a Maven dependency, so there is no need to download anything manually
 - Online documentation: <http://docs.rdf4j.org/>
- GraphDB (<http://graphdb.ontotext.com/>)
 - We will use GraphDB Free, which can be downloaded free of charge upon registration. Please download the *standalone server*
 - Online documentation: <http://graphdb.ontotext.com/documentation/free/>
 - To embed GraphDB Free in a Java program, it is possible to use the *graphdb-free-runtime* available on Maven Central:
<http://search.maven.org/#search%7Cga%7CI%7Cg%3A%22com.ontotext.graphdb%22%20AND%20a%3A%22graphdb-free-runtime%22>