

Installation of umsCodeGenerator / tableTools

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[Japanese](#) (installation_ja.html)

1. Required Softwares

Following software is required for usage of umsCodeGenerator or tableTools.

- [Java 2 Platform, Standard Edition \(J2SE\)](http://java.sun.com/) (http://java.sun.com/) Execution environment of JAVA - Define environment variable JAVA_HOME, include \$JAVA_HOME/bin into the environment variable PATH.
- [Xalan Java](http://xml.apache.org/xalan-j/) (http://xml.apache.org/xalan-j/) XSLT processor - Define environment Variable XALAN_HOME.

Following software is required for build of umsCodeGenerator and tableTools.

- [ANT](http://ant.apache.org/) (http://ant.apache.org/) JAVA based build tool of software - Define environment variable ANT_HOME, include \$ANT_HOME/bin into the environment variable PATH.
- perl5 (only for umsCodeGenerator version 0.3)

Additionally, following software is necessary for compilation and verification of sample programs.

- [msv](http://www.sun.com/software/xml/developers/multischema/) (http://www.sun.com/software/xml/developers/multischema/) Validation tool of RELAX NG.
- [jing](http://www.thaiopensource.com/relaxng/jing.html) (http://www.thaiopensource.com/relaxng/jing.html) Validation tool of RELAX NG.
- make (if you build samples)
- diff (if you perform verification of samples)
- gcc (if you use samples in C or C++)
- J2SE (if you use samples in JAVA)
- perl5 (if you use samples in Perl)

All of the executable of the software above should be included into the command path (eg. Environment Variable: PATH of shell).

2. Download latest version

Latest version of umsCodeGenerator is version 0.4 (2005080301).

Download one of following files.

- [umsCodeGenerator-2005080301.tar.gz](#)
(/archives/umsCodeGenerator-2005080301.tar.gz)

3. Installation

Extract files from the downloaded file in the directory where you want to install files.

Installation of umsCodeGenerator / tableTools

```
$ tar zxvf umsCodeGenerator-yyyyymmddvv.tar.gz
```

Directory umsCodeGenerator/yyyyymmddvv will be created - Define environment variable TABLETOOLS_HOME with this directory, include \$JAVA_HOME/bin into the environment variable PATH.

In the next step, type following commands

```
$ setenv CC 'gcc -std=c99'  
$ cd $TABLETOOLS_HOME  
$ ant
```

Execution of sample can be verified with the following commands.

```
$ ant testAll
```

4. Directory Structure

Following directories are created in the installation

- src (source code installation only): source files
- build (source code installation only): temporal files in the process of the build
- classes: XSLT files and CLASS files used by code generation of umsCodeGenerator
- sample: samples

See [Samples](#) (sample.html) for usage.

5. License

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