json-simple

JSON.simple - A simple Java toolkit for JSON

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Project Home | Downloads | Wiki | Issues | Source

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Code license
Apache License 2.0

Labels
JSON, JSON.simple, Java, parser, encode, decode, marshal, unmarshal, json_simple, ajax, library, tutorial, SAX-like, stoppable, streaming

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External links
Test Suite for JSON.simple

Groups
JSON.simple discussion group

Overview

JSON.simple is a simple Java toolkit for JSON. You can use JSON.simple to encode or decode JSON text.

Features

- Full compliance with JSON specification (RFC4627) and reliable (see compliance testing)

- Provides multiple functionalities such as encode, decode/parse and escape JSON text while keeping the library lightweight

- Flexible, simple and easy to use by reusing Map and List interfaces

- Supports streaming output of JSON text

- Stoppable SAX-like interface for streaming input of JSON text (learn more)

- Heap based parser

- High performance (see performance testing)

- No dependency on external libraries

- Both of the source code and the binary are JDK1.2 compatible

Getting Started

Note: You need to put the latest json-simple-1.1.1.jar in your CLASSPATH before compiling and running the example codes.

- Encoding Examples
- Decoding Examples
- Escaping Examples
- JSP and AJAX Examples

Mapping Between JSON and Java Entities

JSON	Java
string	java.lang.String
number	java.lang.Number
true|false	java.lang.Boolean
null	null
array	java.util.List

object	java.util.Map

JSON.simple maps entities from the left side to the right side while decoding or parsing, and maps entities from the right to the left while encoding. While decoding, default concrete class of java.util.List is org.json.simple.JSONArray and default concrete class of java.util.Map is org.json.simple.JSONObject. While encoding, other classes that are not listed on the right side of the table need to implement JSONAware or JSONStreamAware (streaming only) to customize JSON outputs. In such cases, JSON.simple calls JSONAware.toJSONString() or JSONStreamAware.writeJSONString() to determine the resulting JSON text.

Maven Repository

- JSON.simple in central maven repository

Developer's Guide

- Build With Ant
- Build With Eclipse
- The JSON Lexer

JSON.simple in Projects/Products

- Vuze (Azureus)
- Apache Cassandra
- Apache Clerezza
- Apache MyFaces
- Apache Oozie(TM) Workflow Scheduler for Hadoop
- Apusic OperaMasks
- Chartle.net
- co-ode-owl-plugins
- google-caja
- Google Chrome Developer Tools for Java
- GV
- Hula from Novell
- jmx4perl
- Json2Ldap
- Kindle3
- LabKey Server
- Log4Ant
- Mozilla Bespin
- MTS
- MUSCLE
- NoiseTube
- NuGram Platform
- PhyloWidget
- Renren.com Open API
- Sonar
- Teiid
- Twitter elephant-bird
- TopQuadrant TopBraid Suite™
- vtiger CRM Web Services Client Library
- XBrain

- ZK.forge

JSON.simple in Fedora

- Fedora 12, Fedora 11 and Fedora EPEL 5

JSON.simple in Ubuntu

- Ubuntu Oneiric

JSON.simple in Publications

- O'Reilly - Ajax On Java
- Ajax development case study
- Tutorial from webucator
- A Review of 5 Java JSON Libraries (Rob@Rojotek)
- PeopleSoft PeopleTools Tips & Techniques by Jim J. Marion
- JSON.simple in Jim's Blog
- Tutorial: Using Ext JS, Servlets, JSON, MySQL and Tomcat on Fedora
- Interesting blog on JSON numeric types from Public Object
- Android as SOA player

Next Steps

- Auto marshalling and unmarshalling utils for Java Beans

Links

- JSON.org
- Initial version of JSON.simple

About me

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