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\*/

package org.apache.commons.codec;

/\*\*

\* Defines common decoding methods for byte array decoders.

\*

\* @author Apache Software Foundation

\* @version \$Id: BinaryDecoder.java,v 1.10 2004/06/15 18:14:15 ggregory Exp \$

\*/

public interface BinaryDecoder extends Decoder {

/\*\*

\* Decodes a byte array and returns the results as a byte array.

\*

\* @param pArray A byte array which has been encoded with the

\* appropriate encoder

\*

\* @return a byte array that contains decoded content

\*

\* @throws DecoderException A decoder exception is thrown

\* if a Decoder encounters a failure condition during

\* the decode process.

\*/

byte[] decode(byte[] pArray) throws DecoderException;

}

The commons-codec team is pleased to announce the Codec 1.3 release!

<http://jakarta.apache.org/commons/codec/>

The codec package contains simple encoder and decoders for various formats such as Base64 and Hexadecimal. In addition to these widely used encoders and decoders, the codec package also maintains a collection of phonetic encoding utilities.

Changes in this version include:

New Features:

- o BinaryCodec: Encodes and decodes binary to and from Strings of 0s and 1s. Issue: 27813. Thanks to Alex Karasulu.
- o QuotedPrintableCodec: Codec for RFC 1521 MIME (Multipurpose Internet Mail Extensions) Part One. Rules #3, #4, and #5 of the quoted-printable spec are not implemented yet. See also issue 27789. Issue: 26617. Thanks to Oleg Kalnichevski.
- o BCodec: Identical to the Base64 encoding defined by RFC 1521 and allows a character set to be specified. Issue: 26617. Thanks to Oleg Kalnichevski.
- o QCodec: Similar to the Quoted-Printable content-transfer-encoding defined in RFC 1521 and designed to allow text containing mostly ASCII characters to be decipherable on an ASCII terminal without decoding. Issue: 26617. Thanks to Oleg Kalnichevski.
- o Soundex: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.
- o RefinedSoundex: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.

Fixed bugs:

- o The default URL encoding logic was broken. Issue: 25995. Thanks to Oleg Kalnichevski.
- o Base64 chunked encoding not compliant with RFC 2045 section 2.1 CRLF. Issue: 27781. Thanks to Gary D. Gregory.
- o Hex converts illegal characters to 255. Issue: 28455.
- o Metaphone now correctly handles a silent B in a word that ends in MB. "COMB" is encoded as "KM", before this fix "COMB" was encoded as "KMB". Issue: 28457.
- o Added missing tags in Javadoc comments.
- o General Javadoc improvements.

Changes:

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- o The Board recommendation to remove Javadoc author tags has been implemented. All author tags are now "Apache Software Foundation".

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## 2.2.10

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(last updated \$Date: 2002-12-10 03:15:21 +1100 (Tue, 10 Dec 2002) \$)

This distribution includes a binary distribution of Mozilla Rhino 1.6 release 5 plus one patch.

You can get the unpatched 1.6R5 release of Rhino from the following URL:

[ftp://ftp.mozilla.org/pub/mozilla.org/js/rhino1\\_6R5.zip](ftp://ftp.mozilla.org/pub/mozilla.org/js/rhino1_6R5.zip)

To obtain the source code for the 1.6R5 release of Rhino, issue the following commands:

```
cvs -d :pserver:anonymous@cvs-mirror.mozilla.org:/cvsroot \  
co -D2006-11-20 mozilla/js/rhino
```

The patch is available here:

<https://bugzilla.mozilla.org/attachment.cgi?id=288467>

which is attached to this bug:

[https://bugzilla.mozilla.org/show\\_bug.cgi?id=367627](https://bugzilla.mozilla.org/show_bug.cgi?id=367627)

Rhino is licensed under both the MPL (Mozilla Public License) 1.1 and the GPL (GNU General Public License) 2.0, which are duplicated below.

The Rhino jar also includes four classes:

```
org.mozilla.javascript.tools.debugger.downloaded.AbstractCellEditor.java  
org.mozilla.javascript.tools.debugger.downloaded.JTreeTable.java  
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModel.java  
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModelAdapter.java
```

Which come from:

<http://java.sun.com/products/jfc/tsc/articles/treetable2>

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Code sample

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## 1.56 Cewolf 0.10.3

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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for

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Version 2.1, February 1999

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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In addition, mere aggregation of another work not based on the Library

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Version 1.1

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# 1.95 Dojo Toolkit 1.4.2

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## 1.96 dom4j (DUPLICATE) 1.6.1

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## 1.97 dozer 5.2.1

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 */
package org.dozer.jmx;
```

```
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.dozer.util.InitLogger;
```

```
import javax.management.InstanceAlreadyExistsException;
import javax.management.InstanceNotFoundException;
import javax.management.MBeanRegistrationException;
import javax.management.MBeanServer;
import javax.management.MalformedObjectNameException;
import javax.management.NotCompliantMBeanException;
import javax.management.ObjectName;
import java.lang.management.ManagementFactory;
```

```

/**
 *
 * Default JMX Platform implementation working with java.lang.management.ManagementFactory.
 *
 * @author dmitry.buzdin
 */
public class JMXPlatformImpl implements JMXPlatform {

    private static final Log log = LoggerFactory.getLog(JMXPlatformImpl.class);

    public boolean isAvailable() {
        try {
            Class.forName("java.lang.management.ManagementFactory");
            Class.forName("javax.management.ObjectName");
            Class.forName("javax.management.MBeanServer");
            return true;
        } catch (Throwable t) {
            return false;
        }
    }

    public void registerMBean(String name, Object bean) throws MalformedObjectNameException,
MBeanRegistrationException, NotCompliantMBeanException {
        ObjectName mbeanObjectName = new ObjectName(name);
        unregister(name, mbeanObjectName);
        register(name, bean, mbeanObjectName);
    }

    public void unregisterMBean(String name) throws MBeanRegistrationException, MalformedObjectNameException
    {
        ObjectName mbeanObjectName = new ObjectName(name);
        unregister(name, mbeanObjectName);
    }

    private void register(String name, Object bean, ObjectName mbeanObjectName) throws
MBeanRegistrationException, NotCompliantMBeanException {
        MBeanServer mbs = ManagementFactory.getPlatformMBeanServer();
        try {
            mbs.registerMBean(bean, mbeanObjectName);
            InitLogger.log(log, "Dozer JMX MBean [" + name + "] auto registered with the Platform MBean Server");
        } catch (InstanceAlreadyExistsException e) {
            InitLogger.log(log, "JMX MBean instance exists, unable to overwrite [" + name + "].");
        }
    }

    private void unregister(String name, ObjectName mbeanObjectName) throws MBeanRegistrationException {
        MBeanServer mbs = ManagementFactory.getPlatformMBeanServer();

```

```

boolean isMBeanRegistered = mbs.isRegistered(mbeanObjectName);
if (isMBeanRegistered) {
    InitLogger.log(log, "Unregistering existing Dozer JMX MBean [" + name + "].");
    try {
        mbs.unregisterMBean(mbeanObjectName);
    } catch (InstanceNotFoundException e) {
        InitLogger.log(log, "JMX MBean not found to unregister [" + name + "].");
    }
}
}
}

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 */
package org.dozer.stats;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.dozer.config.GlobalSettings;
import org.dozer.util.MappingUtils;

import java.util.HashSet;
import java.util.Map;
import java.util.Map.Entry;
import java.util.Set;
import java.util.concurrent.ConcurrentHashMap;

/**
 * Internal class that manages the Dozer runtime statistics. Only intended for internal use.
 *
 * @author tierney.matt
 */
public final class StatisticsManagerImpl implements StatisticsManager {

    private static final Log log = LogFactory.getLog(StatisticsManagerImpl.class);

```



```

private final Map<StatisticType, Statistic<?>> statisticsMap = new ConcurrentHashMap<StatisticType,
Statistic<?>>();
private boolean isStatisticsEnabled = GlobalSettings.getInstance().isStatisticsEnabled();

public void clearAll() {
    statisticsMap.clear();
}

public Set<StatisticEntry> getStatisticEntries(StatisticType statisticType) {
    return getStatistic(statisticType).getEntries();
}

public Set<Statistic<?>> getStatistics() {
    return new HashSet<Statistic<?>>(statisticsMap.values());
}

public boolean isStatisticsEnabled() {
    return isStatisticsEnabled;
}

public void setStatisticsEnabled(boolean statisticsEnabled) {
    this.isStatisticsEnabled = statisticsEnabled;
    GlobalSettings.getInstance().setStatisticsEnabled(statisticsEnabled);
}

@SuppressWarnings("unchecked")
protected <T extends Enum<StatisticType>> Statistic<T> getStatistic(T statisticType) {
    Statistic<T> result = (Statistic<T>) statisticsMap.get(statisticType);
    if (result == null) {
        MappingUtils.throwMappingException("Unable to find statistic for type: " + statisticType);
    }
    return result;
}

public Set<StatisticType> getStatisticTypes() {
    Set<StatisticType> results = new HashSet<StatisticType>();
    for (Entry<StatisticType, Statistic<?>> entry : statisticsMap.entrySet()) {
        results.add(entry.getKey());
    }
    return results;
}

/*
 * Convenience method that should only be used for statistic types that will only ever have 1 statistic entry(value).
 * For stats that only have one entry, it is assumed that the single entrie's key is the same as the stat type name
 */
public void increment(StatisticType statisticType) {

```

```

    increment(statisticType, 1);
}

public void increment(StatisticType statisticType, long value) {
    increment(statisticType, statisticType, value);
}

public void increment(StatisticType statisticType, Object statisticEntryKey) {
    increment(statisticType, statisticEntryKey, 1);
}

protected void increment(StatisticType statisticType, Object statisticEntryKey, long value) {
    // If statistics are not enabled, just return and do nothing.
    if (!isStatisticsEnabled()) {
        return;
    }

    if (statisticType == null) {
        throw new IllegalArgumentException("statistic type must be specified");
    }

    if (statisticEntryKey == null) {
        throw new IllegalArgumentException("statistic entry key must be specified");
    }

    // Get Statistic object for the specified type. If it doesnt already exist, create it
    Statistic statistic = statisticsMap.get(statisticType);
    if (statistic == null) {
        statistic = new Statistic(statisticType);
        statistic = addStatistic(statistic);
    }

    // Get the Statistic Entry object which contains the actual value.
    // If it doesnt already exist, create it so that it can be incremented
    StatisticEntry statisticEntry;
    statisticEntry = statistic.getEntry(statisticEntryKey);
    if (statisticEntry == null) {
        statisticEntry = new StatisticEntry(statisticEntryKey);
        statistic.addEntry(statisticEntry);
    }

    // Increment the actual value
    statisticEntry.increment(value);
}

/*
 * Convenience method that should only be used for statistic types that will only ever have 1 statistic entry(value).
 * getStatisticEntries() should be used for statistic types that have more than 1 statistic entry(value)
 */

```

```

*/
public long getStatisticValue(StatisticType statisticType) {
    Set<StatisticEntry> entries = getStatistic(statisticType).getEntries();
    if (entries.size() > 1) {
        throw new IllegalArgumentException("More than one value entry found for stat type: " + statisticType);
    }
    return (entries.iterator().next()).getValue();
}

public long getStatisticValue(StatisticType statisticType, Object entryKey) {
    StatisticEntry statisticEntry = getStatistic(statisticType).getEntry(entryKey);
    if (statisticEntry == null) {
        throw new IllegalStateException("Statistics entry not found: " + statisticType + " for key: " + entryKey);
    }
    return statisticEntry.getValue();
}

protected Statistic addStatistic(Statistic<?> statistic) {
    if (!StatisticExists((StatisticType) statistic.getType())) {
        statisticsMap.put((StatisticType) statistic.getType(), statistic);
    }
    return statisticsMap.get((StatisticType) statistic.getType());
}

public boolean statisticExists(StatisticType statisticType) {
    return statisticsMap.containsKey(statisticType);
}

public void logStatistics() {
    log.info(getStatistics());
}

}

```

## 1.98 dwr 1.0

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-----

Written by: Philip Hazel  
Email local part: ph10  
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-----  
[zlib]

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version 1.2.3, July 18th, 2005

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org        madler@alumni.caltech.edu

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\*/

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[edoc, syntax\_tools]

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```
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[leex]
```

```
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[ldap]

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 *
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# 1.109 geronimo-ccpp\_1.0\_spec 1.0-beta

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

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# 1.126 jackson-core-asl 1.9.11

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library 'Frob' (a library for tweaking knobs) written by James Random  
Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

/\*

\* Javassist, a Java-bytecode translator toolkit.

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### 1.1.1

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## 1.136 JavaService 1.2 :4

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com/sun/xml/xsom/impl/util/Uri.java  
org/relaxng/datatype/helpers/DatatypeLibraryLoader.java

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Mon, 2009-04-27 17:03 Gerrit DeWitt

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# 1.146 JBoss Application Server 7.1.1

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# 1.147 JBoss Remoting 4.0.7.FINAL

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\*/

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## 1.156 jetty-6.1.26 6.1.26

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## 1.157 jetty-util 6.1.26

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## 1.160 JGroups-all 2.6.8

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# 1.170 json-smart 1.2

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## 1.180 less-rhino.js 1.3.3

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```
//  
// Stub out `require` in rhino  
//  
function require(arg) {  
    return less[arg.split('/')[1]];  
};
```

```
// ecma-5.js  
//  
// -- kriskowal Kris Kowal Copyright (C) 2009-2010 MIT License  
// -- tlobinson Tom Robinson  
// dantman Daniel Friesen  
http://opensource.org/licenses/MIT  
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```

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## 1.198 mockejb 0.6-beta2

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# 1.213 org.springframework.aspects

## 3.1.0.RELEASE

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## 1.214 org.springframework.beans 3.1.0

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 */
```

```
package org.springframework.beans.factory.access.el;
```

```
import javax.el.ELContext;
```

```
import org.springframework.beans.factory.BeanFactory;
```

```
import org.springframework.util.Assert;
```

```
/**
 * Simple concrete variant of { @link SpringBeanELResolver }, delegating
 * to a given { @link BeanFactory } that the resolver was constructed with.
 *
 * @author Juergen Hoeller
 * @since 2.5.2
 */
public class SimpleSpringBeanELResolver extends SpringBeanELResolver {
```

```

private final BeanFactory beanFactory;

/**
 * Create a new SimpleSpringBeanELResolver for the given BeanFactory.
 * @param beanFactory the Spring BeanFactory to delegate to
 */
public SimpleSpringBeanELResolver(BeanFactory beanFactory) {
    Assert.notNull(beanFactory, "BeanFactory must not be null");
    this.beanFactory = beanFactory;
}

@Override
protected BeanFactory getBeanFactory(ELContext elContext) {
    return this.beanFactory;
}

}
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 */

package org.springframework.beans.factory.support;

import java.util.ArrayList;
import java.util.List;

import org.springframework.beans.BeanMetadataElement;
import org.springframework.beans.Mergeable;

/**
 * Tag collection class used to hold managed List elements, which may
 * include runtime bean references (to be resolved into bean objects).
 *
 * @author Rod Johnson
 * @author Rob Harrop

```

```

* @author Juergen Hoeller
* @since 27.05.2003
*/
public class ManagedList<E> extends ArrayList<E> implements Mergeable, BeanMetadataElement {

    private Object source;

    private String elementTypeName;

    private boolean mergeEnabled;

    public ManagedList() {
    }

    public ManagedList(int initialCapacity) {
        super(initialCapacity);
    }

    /**
     * Set the configuration source <code>Object</code> for this metadata element.
     * <p>The exact type of the object will depend on the configuration mechanism used.
     */
    public void setSource(Object source) {
        this.source = source;
    }

    public Object getSource() {
        return this.source;
    }

    /**
     * Set the default element type name (class name) to be used for this list.
     */
    public void setElementTypeName(String elementTypeName) {
        this.elementTypeName = elementTypeName;
    }

    /**
     * Return the default element type name (class name) to be used for this list.
     */
    public String getElementTypeName() {
        return this.elementTypeName;
    }

    /**
     * Set whether merging should be enabled for this collection,

```

```

    * in case of a 'parent' collection value being present.
    */
    public void setMergeEnabled(boolean mergeEnabled) {
        this.mergeEnabled = mergeEnabled;
    }

    public boolean isMergeEnabled() {
        return this.mergeEnabled;
    }

    @SuppressWarnings("unchecked")
    public List<E> merge(Object parent) {
        if (!this.mergeEnabled) {
            throw new IllegalStateException("Not allowed to merge when the 'mergeEnabled' property is set to 'false'");
        }
        if (parent == null) {
            return this;
        }
        if (!(parent instanceof List)) {
            throw new IllegalArgumentException("Cannot merge with object of type [" + parent.getClass() + "]");
        }
        List<E> merged = new ManagedList<E>();
        merged.addAll((List) parent);
        merged.addAll(this);
        return merged;
    }

}
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 */

package org.springframework.beans.factory.support;

import java.lang.reflect.Method;

```

```

/**
 * Interface to be implemented by classes that can reimplement any method
 * on an IoC-managed object: the <b>Method Injection</b> form of
 * Dependency Injection.
 *
 * <p>Such methods may be (but need not be) abstract, in which case the
 * container will create a concrete subclass to instantiate.
 *
 * @author Rod Johnson
 * @since 1.1
 */
public interface MethodReplacer {

    /**
     * Reimplement the given method.
     * @param obj the instance we're reimplementing the method for
     * @param method the method to reimplement
     * @param args arguments to the method
     * @return return value for the method
     */
    Object reimplement(Object obj, Method method, Object[] args) throws Throwable;

}
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package org.springframework.beans.factory.support;

import java.lang.reflect.Method;
import java.util.LinkedList;
import java.util.List;

import org.springframework.util.Assert;
import org.springframework.util.ObjectUtils;

```



```

/**
 * Extension of MethodOverride that represents an arbitrary
 * override of a method by the IoC container.
 *
 * <p>Any non-final method can be overridden, irrespective of its
 * parameters and return types.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @since 1.1
 */
public class ReplaceOverride extends MethodOverride {

    private final String methodReplacerBeanName;

    private List<String> typeIdentifiers = new LinkedList<String>();

    /**
     * Construct a new ReplaceOverride.
     * @param methodName the name of the method to override
     * @param methodReplacerBeanName the bean name of the MethodReplacer
     */
    public ReplaceOverride(String methodName, String methodReplacerBeanName) {
        super(methodName);
        Assert.notNull(methodName, "Method replacer bean name must not be null");
        this.methodReplacerBeanName = methodReplacerBeanName;
    }

    /**
     * Return the name of the bean implementing MethodReplacer.
     */
    public String getMethodReplacerBeanName() {
        return this.methodReplacerBeanName;
    }

    /**
     * Add a fragment of a class string, like "Exception"
     * or "java.lang.Exc", to identify a parameter type.
     * @param identifier a substring of the fully qualified class name
     */
    public void addTypeIdentifier(String identifier) {
        this.typeIdentifiers.add(identifier);
    }

    @Override
    public boolean matches(Method method) {

```

```

// TODO could cache result for efficiency
if (!method.getName().equals(getMethodName())) {
    // It can't match.
    return false;
}

if (!isOverloaded()) {
    // No overloaded: don't worry about arg type matching.
    return true;
}

// If we get to here, we need to insist on precise argument matching.
if (this.typeIdentifiers.size() != method.getParameterTypes().length) {
    return false;
}
for (int i = 0; i < this.typeIdentifiers.size(); i++) {
    String identifier = this.typeIdentifiers.get(i);
    if (!method.getParameterTypes()[i].getName().contains(identifier)) {
        // This parameter cannot match.
        return false;
    }
}
return true;
}

@Override
public String toString() {
    return "Replace override for method '" + getMethodName() + "'; will call bean '" +
        this.methodReplacerBeanName + "'";
}

@Override
public boolean equals(Object other) {
    if (!(other instanceof ReplaceOverride) || !super.equals(other)) {
        return false;
    }
    ReplaceOverride that = (ReplaceOverride) other;
    return (ObjectUtils.nullSafeEquals(this.methodReplacerBeanName, that.methodReplacerBeanName) &&
        ObjectUtils.nullSafeEquals(this.typeIdentifiers, that.typeIdentifiers));
}

@Override
public int hashCode() {
    int hashCode = super.hashCode();
    hashCode = 29 * hashCode + ObjectUtils.nullSafeHashCode(this.methodReplacerBeanName);
    hashCode = 29 * hashCode + ObjectUtils.nullSafeHashCode(this.typeIdentifiers);
    return hashCode;
}

```

```

}

}

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 */

package org.springframework.beans.factory.support;

import org.springframework.beans.factory.config.BeanDefinition;
import org.springframework.beans.factory.config.BeanDefinitionHolder;
import org.springframework.beans.factory.config.DependencyDescriptor;

/**
 * {@link AutowireCandidateResolver} implementation to use when no annotation
 * support is available. This implementation checks the bean definition only.
 *
 * @author Mark Fisher
 * @author Juergen Hoeller
 * @since 2.5
 * @see BeanDefinition#isAutowireCandidate()
 */
public class SimpleAutowireCandidateResolver implements AutowireCandidateResolver {

    /**
     * Determine if the provided bean definition is an autowire candidate.
     * <p>To be considered a candidate the bean's <em>autowire-candidate</em>
     * attribute must not have been set to 'false'.
     */
    public boolean isAutowireCandidate(BeanDefinitionHolder bdHolder, DependencyDescriptor descriptor) {
        return bdHolder.getBeanDefinition().isAutowireCandidate();
    }

    public Object getSuggestedValue(DependencyDescriptor descriptor) {
        return null;
    }

```

```

}

}
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 */

package org.springframework.beans.factory.support;

import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;

import org.springframework.beans.factory.BeanDefinitionStoreException;
import org.springframework.beans.factory.NoSuchBeanDefinitionException;
import org.springframework.beans.factory.config.BeanDefinition;
import org.springframework.core.SimpleAliasRegistry;
import org.springframework.util.Assert;
import org.springframework.util.StringUtils;

/**
 * Simple implementation of the {@link BeanDefinitionRegistry} interface.
 * Provides registry capabilities only, with no factory capabilities built in.
 * Can for example be used for testing bean definition readers.
 *
 * @author Juergen Hoeller
 * @since 2.5.2
 */
public class SimpleBeanDefinitionRegistry extends SimpleAliasRegistry implements BeanDefinitionRegistry {

    /** Map of bean definition objects, keyed by bean name */
    private final Map<String, BeanDefinition> beanDefinitionMap = new ConcurrentHashMap<String,
    BeanDefinition>();

    public void registerBeanDefinition(String beanName, BeanDefinition beanDefinition)
        throws BeanDefinitionStoreException {

```

```

Assert.hasText(beanName, "'beanName' must not be empty");
Assert.notNull(beanDefinition, "BeanDefinition must not be null");
this.beanDefinitionMap.put(beanName, beanDefinition);
}

public void removeBeanDefinition(String beanName) throws NoSuchBeanDefinitionException {
    if (this.beanDefinitionMap.remove(beanName) == null) {
        throw new NoSuchBeanDefinitionException(beanName);
    }
}

public BeanDefinition getBeanDefinition(String beanName) throws NoSuchBeanDefinitionException {
    BeanDefinition bd = this.beanDefinitionMap.get(beanName);
    if (bd == null) {
        throw new NoSuchBeanDefinitionException(beanName);
    }
    return bd;
}

public boolean containsBeanDefinition(String beanName) {
    return this.beanDefinitionMap.containsKey(beanName);
}

public String[] getBeanDefinitionNames() {
    return StringUtils.toStringArray(this.beanDefinitionMap.keySet());
}

public int getBeanDefinitionCount() {
    return this.beanDefinitionMap.size();
}

public boolean isBeanNameInUse(String beanName) {
    return isAlias(beanName) || containsBeanDefinition(beanName);
}

}
/*
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```

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- \*/

```
package org.springframework.beans.factory.support;
```

```
import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
import java.security.AccessController;
import java.security.PrivilegedAction;
import java.security.PrivilegedExceptionAction;
```

```
import org.springframework.beans.BeanInstantiationException;
import org.springframework.beans.BeanUtils;
import org.springframework.beans.factory.BeanDefinitionStoreException;
import org.springframework.beans.factory.BeanFactory;
import org.springframework.util.ReflectionUtils;
import org.springframework.util.StringUtils;
```

```
/**
```

```
* Simple object instantiation strategy for use in a BeanFactory.
```

```
*
```

```
* <p>Does not support Method Injection, although it provides hooks for subclasses
```

```
* to override to add Method Injection support, for example by overriding methods.
```

```
*
```

```
* @author Rod Johnson
```

```
* @author Juergen Hoeller
```

```
* @since 1.1
```

```
*/
```

```
public class SimpleInstantiationStrategy implements InstantiationStrategy {
```

```
    private static final ThreadLocal<Method> currentlyInvokedFactoryMethod = new ThreadLocal<Method>();
```

```
    public Object instantiate(RootBeanDefinition beanDefinition, String beanName, BeanFactory owner) {
```

```
        // Don't override the class with CGLIB if no overrides.
```

```
        if (beanDefinition.getMethodOverrides().isEmpty()) {
```

```
            Constructor<?> constructorToUse;
```

```
            synchronized (beanDefinition.constructorArgumentLock) {
```

```
                constructorToUse = (Constructor<?>) beanDefinition.resolvedConstructorOrFactoryMethod;
```

```
                if (constructorToUse == null) {
```

```
                    final Class clazz = beanDefinition.getBeanClass();
```

```
                    if (clazz.isInterface()) {
```

```
                        throw new BeanInstantiationException(clazz, "Specified class is an interface");
```

```
                    }
```

```
                } try {
```

```
                    if (System.getSecurityManager() != null) {
```

```

        constructorToUse = AccessController.doPrivileged(new PrivilegedExceptionAction<Constructor>() {
            public Constructor run() throws Exception {
                return clazz.getDeclaredConstructor((Class[]) null);
            }
        });
    }
    else {
        constructorToUse = clazz.getDeclaredConstructor((Class[]) null);
    }
    beanDefinition.resolvedConstructorOrFactoryMethod = constructorToUse;
}
catch (Exception ex) {
    throw new BeanInstantiationException(clazz, "No default constructor found", ex);
}
}
return BeanUtils.instantiateClass(constructorToUse);
}
else {
    // Must generate CGLIB subclass.
    return instantiateWithMethodInjection(beanDefinition, beanName, owner);
}
}

/**
 * Subclasses can override this method, which is implemented to throw
 * UnsupportedOperationException, if they can instantiate an object with
 * the Method Injection specified in the given RootBeanDefinition.
 * Instantiation should use a no-arg constructor.
 */
protected Object instantiateWithMethodInjection(
    RootBeanDefinition beanDefinition, String beanName, BeanFactory owner) {

    throw new UnsupportedOperationException(
        "Method Injection not supported in SimpleInstantiationStrategy");
}

public Object instantiate(RootBeanDefinition beanDefinition, String beanName, BeanFactory owner,
    final Constructor<?> ctor, Object[] args) {

    if (beanDefinition.getMethodOverrides().isEmpty()) {
        if (System.getSecurityManager() != null) {
            // use own privileged to change accessibility (when security is on)
            AccessController.doPrivileged(new PrivilegedAction<Object>() {
                public Object run() {
                    ReflectionUtils.makeAccessible(ctor);
                    return null;
                }
            });
        }
    }
}

```

```

    });
    }
    return BeanUtils.instantiateClass(ctor, args);
    }
    else {
        return instantiateWithMethodInjection(beanDefinition, beanName, owner, ctor, args);
    }
}

/**
 * Subclasses can override this method, which is implemented to throw
 * UnsupportedOperationException, if they can instantiate an object with
 * the Method Injection specified in the given RootBeanDefinition.
 * Instantiation should use the given constructor and parameters.
 */
protected Object instantiateWithMethodInjection(RootBeanDefinition beanDefinition,
    String beanName, BeanFactory owner, Constructor ctor, Object[] args) {

    throw new UnsupportedOperationException(
        "Method Injection not supported in SimpleInstantiationStrategy");
}

public Object instantiate(RootBeanDefinition beanDefinition, String beanName, BeanFactory owner,
    Object factoryBean, final Method factoryMethod, Object[] args) {

    try {
        if (System.getSecurityManager() != null) {
            AccessController.doPrivileged(new PrivilegedAction<Object>() {
                public Object run() {
                    ReflectionUtils.makeAccessible(factoryMethod);
                    return null;
                }
            });
        }
        else {
            ReflectionUtils.makeAccessible(factoryMethod);
        }

        Method priorInvokedFactoryMethod = currentlyInvokedFactoryMethod.get();
        try {
            currentlyInvokedFactoryMethod.set(factoryMethod);
            return factoryMethod.invoke(factoryBean, args);
        } finally {
            if (priorInvokedFactoryMethod != null) {
                currentlyInvokedFactoryMethod.set(priorInvokedFactoryMethod);
            }
        }
        else {
            currentlyInvokedFactoryMethod.remove();

```



```

    }
    }
    }
    catch (IllegalArgumentException ex) {
        throw new BeanDefinitionStoreException(
            "Illegal arguments to factory method [" + factoryMethod + "]; " +
            "args: " + StringUtils.arrayToCommaDelimitedString(args));
    }
    catch (IllegalAccessException ex) {
        throw new BeanDefinitionStoreException(
            "Cannot access factory method [" + factoryMethod + "]; is it public?");
    }
    catch (InvocationTargetException ex) {
        throw new BeanDefinitionStoreException(
            "Factory method [" + factoryMethod + "] threw exception", ex.getTargetException());
    }
}

/**
 * Return the factory method currently being invoked or {@code null} if none.
 * Allows factory method implementations to determine whether the current
 * caller is the container itself as opposed to user code.
 */
public static Method getCurrentlyInvokedFactoryMethod() {
    return currentlyInvokedFactoryMethod.get();
}
}
/*
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */

package org.springframework.beans.factory.support;

import java.security.AccessControlContext;
import java.security.AccessController;

```

```

/**
 * Simple {@link SecurityContextProvider} implementation.
 *
 * @author Costin Leau
 * @since 3.0
 */
public class SimpleSecurityContextProvider implements SecurityContextProvider {

    private final AccessControlContext acc;

    /**
     * Construct a new SimpleSecurityContextProvider instance.
     * 

The security context will be retrieved on each call from the current
     * thread.


     */
    public SimpleSecurityContextProvider() {
        this(null);
    }

    /**
     * Construct a new SimpleSecurityContextProvider instance.
     * 

If the given control context is null, the security context will be
     * retrieved on each call from the current thread.


     * @param acc access control context (can be null)
     * @see AccessController#getContext()
     */
    public SimpleSecurityContextProvider(AccessControlContext acc) {
        this.acc = acc;
    }

    public AccessControlContext getAccessControlContext() {
        return (this.acc != null ? acc : AccessController.getContext());
    }
}

/**
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 *
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```

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- \* limitations under the License.
- \*/

```
package org.springframework.beans.factory.xml;
```

```
import org.w3c.dom.Attr;
import org.w3c.dom.Element;
import org.w3c.dom.NamedNodeMap;
```

```
import org.springframework.beans.factory.support.BeanDefinitionBuilder;
import org.springframework.core.Conventions;
import org.springframework.util.Assert;
import org.springframework.util.StringUtils;
```

```
/**
```

```
* Convenient base class for when there exists a one-to-one mapping
* between attribute names on the element that is to be parsed and
* the property names on the {@link Class} being configured.
*
* <p>Extend this parser class when you want to create a single
* bean definition from a relatively simple custom XML element. The
* resulting BeanDefinition will be automatically
* registered with the relevant
* {@link org.springframework.beans.factory.support.BeanDefinitionRegistry}.
```

```
* <p>An example will hopefully make the use of this particular parser
* class immediately clear. Consider the following class definition:
```

```
* <pre class="code">public class SimpleCache implements Cache {
*
*     public void setName(String name) {...}
*     public void setTimeout(int timeout) {...}
*     public void setEvictionPolicy(EvictionPolicy policy) {...}
*
*     // remaining class definition elided for clarity...
* }</pre>
```

```
* <p>Then let us assume the following XML tag has been defined to
* permit the easy configuration of instances of the above class;
```

```
* <pre class="code">&lt; caching:cache name="..." timeout="..." eviction-policy="..."&gt;</pre>
```

```
* <p>All that is required of the Java developer tasked with writing
* the parser to parse the above XML tag into an actual
* SimpleCache bean definition is the following:
```

```
*
```

```

* <pre class="code">public class SimpleCacheBeanDefinitionParser extends AbstractSimpleBeanDefinitionParser {
*
*     protected Class getBeanClass(Element element) {
*         return SimpleCache.class;
*     }
* }</pre>

```

\* <p>Please note that the <code>AbstractSimpleBeanDefinitionParser</code>
\* is limited to populating the created bean definition with property values.
\* if you want to parse constructor arguments and nested elements from the
\* supplied XML element, then you will have to implement the
\* { @link #postProcess(org.springframework.beans.factory.support.BeanDefinitionBuilder, org.w3c.dom.Element)}
\* method and do such parsing yourself, or (more likely) subclass the
\* { @link AbstractSingleBeanDefinitionParser} or { @link AbstractBeanDefinitionParser}
\* classes directly.

\* <p>The process of actually registering the
\* <code>SimpleCacheBeanDefinitionParser</code> with the Spring XML parsing
\* infrastructure is described in the Spring Framework reference documentation
\* (in one of the appendices).

\* <p>For an example of this parser in action (so to speak), do look at
\* the source code for the
\* { @link org.springframework.beans.factory.xml.UtilNamespaceHandler.PropertiesBeanDefinitionParser};
\* the observant (and even not so observant) reader will immediately notice that
\* there is next to no code in the implementation. The
\* <code>PropertiesBeanDefinitionParser</code> populates a
\* { @link org.springframework.beans.factory.config.PropertiesFactoryBean}
\* from an XML element that looks like this:

```

* <pre class="code">&lt;util:properties location="jdbc.properties"/&gt;</pre>

```

\* <p>The observant reader will notice that the sole attribute on the
\* <code>&lt;util:properties/&gt;</code> element matches the
\* { @link
\* org.springframework.beans.factory.config.PropertiesFactoryBean#setLocation(org.springframework.core.io.Resource)
\* e)}
\* method name on the <code>PropertiesFactoryBean</code> (the general
\* usage thus illustrated holds true for any number of attributes).
\* All that the <code>PropertiesBeanDefinitionParser</code> needs
\* actually do is supply an implementation of the
\* { @link #getBeanClass(org.w3c.dom.Element)} method to return the
\* <code>PropertiesFactoryBean</code> type.

\* @author Rob Harrop
\* @author Rick Evans
\* @author Juergen Hoeller
\* @since 2.0

```

* @see Conventions#attributeNameToPropertyName(String)
*/
public abstract class AbstractSimpleBeanDefinitionParser extends AbstractSingleBeanDefinitionParser {

/**
 * Parse the supplied { @link Element } and populate the supplied
 * { @link BeanDefinitionBuilder } as required.
 * <p>This implementation maps any attributes present on the
 * supplied element to { @link org.springframework.beans.PropertyValue }
 * instances, and
 * { @link BeanDefinitionBuilder#addPropertyValue(String, Object) } adds them
 * to the
 * { @link org.springframework.beans.factory.config.BeanDefinition } builder.
 * <p>The { @link #extractPropertyName(String) } method is used to
 * reconcile the name of an attribute with the name of a JavaBean
 * property.
 * @param element the XML element being parsed
 * @param builder used to define the <code>BeanDefinition</code>
 * @see #extractPropertyName(String)
 */
@Override
protected void doParse(Element element, ParserContext parserContext, BeanDefinitionBuilder builder) {
    NamedNodeMap attributes = element.getAttributes();
    for (int x = 0; x < attributes.getLength(); x++) {
        Attr attribute = (Attr) attributes.item(x);
        if (isEligibleAttribute(attribute, parserContext)) {
            String propertyName = extractPropertyName(attribute.getLocalName());
            Assert.state(StringUtils.hasText(propertyName),
                "Illegal property name returned from 'extractPropertyName(String)': cannot be null or empty.");
            builder.addPropertyValue(propertyName, attribute.getValue());
        }
    }
    postProcess(builder, element);
}

/**
 * Determine whether the given attribute is eligible for being
 * turned into a corresponding bean property value.
 * <p>The default implementation considers any attribute as eligible,
 * except for the "id" attribute and namespace declaration attributes.
 * @param attribute the XML attribute to check
 * @param parserContext the <code>ParserContext</code>
 * @see #isEligibleAttribute(String)
 */
protected boolean isEligibleAttribute(Attr attribute, ParserContext parserContext) {
    boolean eligible = isEligibleAttribute(attribute);
    if (!eligible) {
        String fullName = attribute.getName();

```

```

    eligible = (!fullName.equals("xmlns") && !fullName.startsWith("xmlns:")) &&
        isEligibleAttribute(parserContext.getDelegate().getLocalName(attribute));
}
return eligible;
}

/**
 * Determine whether the given attribute is eligible for being
 * turned into a corresponding bean property value.
 * <p>The default implementation considers any attribute as eligible,
 * except for the "id" attribute and namespace declaration attributes.
 * @param attribute the XML attribute to check
 * @see #isEligibleAttribute(String)
 * @deprecated in favour of { @link #isEligibleAttribute(org.w3c.dom.Attr, ParserContext) }
 */
@Deprecated
protected boolean isEligibleAttribute(Attr attribute) {
    return false;
}

/**
 * Determine whether the given attribute is eligible for being
 * turned into a corresponding bean property value.
 * <p>The default implementation considers any attribute as eligible,
 * except for the "id" attribute.
 * @param attributeName the attribute name taken straight from the
 * XML element being parsed (never <code>null</code>)
 */
protected boolean isEligibleAttribute(String attributeName) {
    return !ID_ATTRIBUTE.equals(attributeName);
}

/**
 * Extract a JavaBean property name from the supplied attribute name.
 * <p>The default implementation uses the
 * { @link Conventions#attributeNameToPropertyName(String) }
 * method to perform the extraction.
 * <p>The name returned must obey the standard JavaBean property name
 * conventions. For example for a class with a setter method
 * '<code>setBingoHallFavourite(String)</code>', the name returned had
 * better be '<code>bingoHallFavourite</code>' (with that exact casing).
 * @param attributeName the attribute name taken straight from the
 * XML element being parsed (never <code>null</code>)
 * @return the extracted JavaBean property name (must never be <code>null</code>)
 */
protected String extractPropertyName(String attributeName) {
    return Conventions.attributeNameToPropertyName(attributeName);
}

```

```

/**
 * Hook method that derived classes can implement to inspect/change a
 * bean definition after parsing is complete.
 * <p>The default implementation does nothing.
 * @param beanDefinition the parsed (and probably totally defined) bean definition being built
 * @param element the XML element that was the source of the bean definition's metadata
 */
protected void postProcess(BeanDefinitionBuilder beanDefinition, Element element) {
}

}
/*
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 * limitations under the License.
 */
package org.springframework.beans.factory.xml;

import java.util.Collection;

import org.springframework.beans.factory.config.BeanDefinition;
import org.springframework.beans.factory.config.BeanDefinitionHolder;
import org.springframework.beans.factory.config.ConstructorArgumentValues;
import org.springframework.beans.factory.config.RuntimeBeanReference;
import org.springframework.beans.factory.config.ConstructorArgumentValues.ValueHolder;
import org.springframework.core.Conventions;
import org.springframework.util.StringUtils;
import org.w3c.dom.Attr;
import org.w3c.dom.Element;
import org.w3c.dom.Node;

/**
 * Simple NamespaceHandler implementation that maps custom
 * attributes directly through to bean properties. An important point to note is
 * that this NamespaceHandler does not have a corresponding schema
 * since there is no way to know in advance all possible attribute names.
 */

```

```

* <p>
* An example of the usage of this <code>NamespaceHandler</code> is shown below:
*
* <pre class="code">
* &lt;bean id="author" class="..TestBean" c:name="Enescu" c:work-
* ref="compositions"/&gt;
* </pre>
*
* Here the '<code>c:name</code>' corresponds directly to the '<code>name</code>'
* 'argument declared on the constructor of class '<code>TestBean</code>'. The
* '<code>c:work-ref</code>' attributes corresponds to the '<code>work</code>'
* argument and, rather than being the concrete value, it contains the name of
* the bean that will be considered as a parameter.
*
* <b>Note</b>: This implementation supports only named parameters - there is no
* support for indexes or types. Further more, the names are used as hints by
* the container which, by default, does type introspection.
*
* @see SimplePropertyNamespaceHandler
* @author Costin Leau
*/
public class SimpleConstructorNamespaceHandler implements NamespaceHandler {

    private static final String REF_SUFFIX = "-ref";
    private static final String DELIMITER_PREFIX = "_";

    public void init() {
    }

    public BeanDefinition parse(Element element, ParserContext parserContext) {
        parserContext.getReaderContext().error(
            "Class [" + getClass().getName() + "] does not support custom elements.", element);
        return null;
    }

    public BeanDefinitionHolder decorate(Node node, BeanDefinitionHolder definition, ParserContext parserContext) {
        if (node instanceof Attr) {
            Attr attr = (Attr) node;
            String argName = StringUtils.trimWhitespace(parserContext.getDelegate().getLocalName(attr));
            String argValue = StringUtils.trimWhitespace(attr.getValue());

            ConstructorArgumentValues cvs = definition.getBeanDefinition().getConstructorArgumentValues();
            boolean ref = false;

            // handle -ref arguments
            if (argName.endsWith(REF_SUFFIX)) {
                ref = true;
                argName = argName.substring(0, argName.length() - REF_SUFFIX.length());
            }
        }
    }
}

```



```

}

ValueHolder valueHolder = new ValueHolder(ref ? new RuntimeBeanReference(argValue) : argValue);
valueHolder.setSource(parserContext.getReaderContext().extractSource(attr));

// handle "escaped"/"_" arguments
if (argName.startsWith(DELIMITER_PREFIX)) {
    String arg = argName.substring(1).trim();

    // fast default check
    if (!StringUtils.hasText(arg)) {
        cvs.addGenericArgumentValue(valueHolder);
    }
    // assume an index otherwise
    else {
        int index = -1;
        try {
            index = Integer.parseInt(arg);
        } catch (NumberFormatException ex) {
            parserContext.getReaderContext().error(
                "Constructor argument '" + argName + "' specifies an invalid integer", attr);
        }
        if (index < 0) {
            parserContext.getReaderContext().error(
                "Constructor argument '" + argName + "' specifies a negative index", attr);
        }

        if (cvs.hasIndexedArgumentValue(index)){
            parserContext.getReaderContext().error(
                "Constructor argument '" + argName + "' with index '"+ index+" already defined using <constructor-arg>." +
                " Only one approach may be used per argument.", attr);
        }

        cvs.addIndexedArgumentValue(index, valueHolder);
    }
}
// no escaping -> ctr name
else {
    String name = Conventions.attributeNameToPropertyName(argName);
    if (containsArgWithName(name, cvs)){
        parserContext.getReaderContext().error(
            "Constructor argument '" + argName + "' already defined using <constructor-arg>." +
            " Only one approach may be used per argument.", attr);
    }
    valueHolder.setName(Conventions.attributeNameToPropertyName(argName));
    cvs.addGenericArgumentValue(valueHolder);
}
}

```

```

return definition;
}

private boolean containsArgWithName(String name, ConstructorArgumentValues cvs) {
    if (!checkName(name, cvs.getGenericArgumentValues())) {
        return checkName(name, cvs.getIndexedArgumentValues().values());
    }

    return true;
}

private boolean checkName(String name, Collection<ValueHolder> values) {
    for (ValueHolder holder : values) {
        if (name.equals(holder.getName())) {
            return true;
        }
    }
    return false;
}
}
/*
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 * limitations under the License.
 */

package org.springframework.beans.factory.xml;

import org.w3c.dom.Attr;
import org.w3c.dom.Element;
import org.w3c.dom.Node;

import org.springframework.beans.MutablePropertyValues;
import org.springframework.beans.factory.config.BeanDefinition;
import org.springframework.beans.factory.config.BeanDefinitionHolder;
import org.springframework.beans.factory.config.RuntimeBeanReference;
import org.springframework.core.Conventions;

```

```

/**
 * Simple NamespaceHandler implementation that maps custom attributes
 * directly through to bean properties. An important point to note is that this
 * NamespaceHandler does not have a corresponding schema since there
 * is no way to know in advance all possible attribute names.
 *
 * <p>An example of the usage of this NamespaceHandler is shown below:
 *
 * <pre class="code">
 * &lt;bean id="rob" class="..TestBean" p:name="Rob Harrop" p:spouse-
 * ref="sally"/&gt;</pre>
 *
 * Here the 'p:name' corresponds directly to the 'name'
 * property on class 'TestBean'. The 'p:spouse-ref'
 * attributes corresponds to the 'spouse' property and, rather
 * than being the concrete value, it contains the name of the bean that will
 * be injected into that property.
 *
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 2.0
 */
public class SimplePropertyNamespaceHandler implements NamespaceHandler {

    private static final String REF_SUFFIX = "-ref";

    public void init() {
    }

    public BeanDefinition parse(Element element, ParserContext parserContext) {
        parserContext.getReaderContext().error(
            "Class [" + getClass().getName() + "] does not support custom elements.", element);
        return null;
    }

    public BeanDefinitionHolder decorate(Node node, BeanDefinitionHolder definition, ParserContext parserContext) {
        if (node instanceof Attr) {
            Attr attr = (Attr) node;
            String propertyName = parserContext.getDelegate().getLocalName(attr);
            String propertyValue = attr.getValue();
            MutablePropertyValues pvs = definition.getBeanDefinition().getPropertyValues();
            if (pvs.contains(propertyName)) {
                parserContext.getReaderContext().error("Property '" + propertyName + "' is already defined using " +
                    "both <property> and inline syntax. Only one approach may be used per property.", attr);
            }
            if (propertyName.endsWith(REF_SUFFIX)) {
                propertyName = propertyName.substring(0, propertyName.length() - REF_SUFFIX.length());
            }
        }
    }
}

```

```

    pvs.add(Conventions.attributeNameToPropertyName(propertyName), new
RuntimeBeanReference(propertyValue));
}
else {
    pvs.add(Conventions.attributeNameToPropertyName(propertyName), propertyValue);
}
}
return definition;
}
}

```

## 1.215 org.springframework.beans

### 3.0.5.RELEASE

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# 1.216 org.springframework.context

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## 1.217 org.springframework.context 3.1.0

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 \*/

```
package org.springframework.cache.support;
```

```
import java.util.Collection;
```

```
import org.springframework.cache.Cache;
```

```
/**
```

```
* Simple cache manager working against a given collection of caches.
```

```
* Useful for testing or simple caching declarations.
```

```
*
```

```
* @author Costin Leau
```

```
* @since 3.1
```

```
*/
```

```
public class SimpleCacheManager extends AbstractCacheManager {
```

```
    private Collection<? extends Cache> caches;
```

```
/**
```

```
* Specify the collection of Cache instances to use for this CacheManager.
```

```
*/
```

```
public void setCaches(Collection<? extends Cache> caches) {
```

```
    this.caches = caches;
```

```
}
```

```
@Override
```

```
protected Collection<? extends Cache> loadCaches() {
```

```
    return this.caches;
```

```
}
```

```
}
```

```
/**
```

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```
*
```

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*/

package org.springframework.cache.support;

import org.springframework.cache.Cache.ValueWrapper;

/**
 * Straightforward implementation of {@link org.springframework.cache.Cache.ValueWrapper},
 * simply holding the value as given at construction and returning it from {@link #get()}.
 *
 * @author Costin Leau
 * @since 3.1
 */
public class SimpleValueWrapper implements ValueWrapper {

    private final Object value;

    /**
     * Create a new SimpleValueWrapper instance for exposing the given value.
     * @param value the value to expose (may be null)
     */
    public SimpleValueWrapper(Object value) {
        this.value = value;
    }

    /**
     * Simply returns the value as given at construction time.
     */
    public Object get() {
        return this.value;
    }

}

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```

```

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```

```
package org.springframework.context.event;
```

```
import java.util.concurrent.Executor;
```

```
import org.springframework.beans.factory.BeanFactory;
import org.springframework.context.ApplicationEvent;
import org.springframework.context.ApplicationListener;
```

```
/**
```

```
* Simple implementation of the { @link ApplicationEventMulticaster } interface.
```

```
*
```

```
* <p>Multicasts all events to all registered listeners, leaving it up to
```

```
* the listeners to ignore events that they are not interested in.
```

```
* Listeners will usually perform corresponding <code>instanceof</code>
```

```
* checks on the passed-in event object.
```

```
*
```

```
* <p>By default, all listeners are invoked in the calling thread.
```

```
* This allows the danger of a rogue listener blocking the entire application,
```

```
* but adds minimal overhead. Specify an alternative TaskExecutor to have
```

```
* listeners executed in different threads, for example from a thread pool.
```

```
*
```

```
* @author Rod Johnson
```

```
* @author Juergen Hoeller
```

```
* @see #setTaskExecutor
```

```
*/
```

```
public class SimpleApplicationEventMulticaster extends AbstractApplicationEventMulticaster {
```

```
    private Executor taskExecutor;
```

```
/**
```

```
* Create a new SimpleApplicationEventMulticaster.
```

```
*/
```

```
public SimpleApplicationEventMulticaster() {
```

```
}
```

```
/**
```



```

* Create a new SimpleApplicationEventMulticaster for the given BeanFactory.
*/
public SimpleApplicationEventMulticaster(BeanFactory beanFactory) {
    setBeanFactory(beanFactory);
}

/**
* Set the TaskExecutor to execute application listeners with.
* <p>Default is a SyncTaskExecutor, executing the listeners synchronously
* in the calling thread.
* <p>Consider specifying an asynchronous TaskExecutor here to not block the
* caller until all listeners have been executed. However, note that asynchronous
* execution will not participate in the caller's thread context (class loader,
* transaction association) unless the TaskExecutor explicitly supports this.
* @see org.springframework.core.task.SyncTaskExecutor
* @see org.springframework.core.task.SimpleAsyncTaskExecutor
*/
public void setTaskExecutor(Executor taskExecutor) {
    this.taskExecutor = taskExecutor;
}

/**
* Return the current TaskExecutor for this multicaster.
*/
protected Executor getTaskExecutor() {
    return this.taskExecutor;
}

@SuppressWarnings("unchecked")
public void multicastEvent(final ApplicationEvent event) {
    for (final ApplicationListener listener : getApplicationListeners(event)) {
        Executor executor = getTaskExecutor();
        if (executor != null) {
            executor.execute(new Runnable() {
                @SuppressWarnings("unchecked")
                public void run() {
                    listener.onApplicationEvent(event);
                }
            });
        }
        else {
            listener.onApplicationEvent(event);
        }
    }
}

```

```

}
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 */

package org.springframework.context.i18n;

import java.util.Locale;

import org.springframework.util.Assert;

/**
 * Simple implementation of the {@link LocaleContext} interface,
 * always returning a specified Locale.
 *
 * @author Juergen Hoeller
 * @since 1.2
 */
public class SimpleLocaleContext implements LocaleContext {

    private final Locale locale;

    /**
     * Create a new SimpleLocaleContext that exposes the specified Locale.
     * Every getLocale() will return this Locale.
     * @param locale the Locale to expose
     */
    public SimpleLocaleContext(Locale locale) {
        Assert.notNull(locale, "Locale must not be null");
        this.locale = locale;
    }

    public Locale getLocale() {
        return this.locale;
    }
}

```

```

@Override
public String toString() {
    return this.locale.toString();
}

}

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 */

package org.springframework.context.support;

import java.util.HashMap;
import java.util.Map;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;

import org.springframework.beans.factory.ObjectFactory;
import org.springframework.beans.factory.config.Scope;
import org.springframework.core.NamedThreadLocal;

/**
 * Thread-backed { @link Scope } implementation.
 *
 * <p><strong>Note</strong> that the <code>SimpleThreadScope</code> <em>does not clean up any objects</em>
associated
 * with it. As such, it's typically preferable to use the { @link
org.springframework.web.context.request.RequestScope }
 * in Web environments.
 *
 * <p>For a implementation of a thread-based <code>Scope</code> with support for destruction callbacks, refer to
<a
 * href="http://www.springbyexample.org/twiki/bin/view/Example/CustomThreadScopeModule">this module</a>.
 */

```

```

* <p>Thanks to Eugene Kuleshov for submitting the original prototype for a thread scope!
*
* @author Arjen Poutsma
* @author Juergen Hoeller
* @since 3.0
* @see org.springframework.web.context.request.RequestScope
*/
public class SimpleThreadScope implements Scope {

    private static final Log logger = LoggerFactory.getLog(SimpleThreadScope.class);

    private final ThreadLocal<Map<String, Object>> threadScope =
        new NamedThreadLocal<Map<String, Object>>("SimpleThreadScope") {
            @Override
            protected Map<String, Object> initialValue() {
                return new HashMap<String, Object>();
            }
        };

    public Object get(String name, ObjectFactory objectFactory) {
        Map<String, Object> scope = threadScope.get();
        Object object = scope.get(name);
        if (object == null) {
            object = objectFactory.getObject();
            scope.put(name, object);
        }
        return object;
    }

    public Object remove(String name) {
        Map<String, Object> scope = threadScope.get();
        return scope.remove(name);
    }

    public void registerDestructionCallback(String name, Runnable callback) {
        logger.warn("SimpleThreadScope does not support destruction callbacks. " +
            "Consider using a RequestScope in a Web environment.");
    }

    public Object resolveContextualObject(String key) {
        return null;
    }

    public String getConversationId() {
        return Thread.currentThread().getName();
    }

}

```

```

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 */

```

```
package org.springframework.ejb.access;
```

```
import java.lang.reflect.InvocationTargetException;
import java.rmi.RemoteException;
```

```
import javax.ejb.CreateException;
import javax.ejb.EJBObject;
import javax.naming.NamingException;
```

```
import org.aopalliance.intercept.MethodInvocation;
```

```
import org.springframework.beans.factory.DisposableBean;
import org.springframework.remoting.RemoteLookupFailureException;
import org.springframework.remoting.rmi.RmiClientInterceptorUtils;
```

```

/**
 * Basic invoker for a remote Stateless Session Bean.
 * Designed for EJB 2.x, but works for EJB 3 Session Beans as well.
 *
 * <p>"Creates" a new EJB instance for each invocation, or caches the session
 * bean instance for all invocations (see { @link #setCacheSessionBean}).
 * See { @link org.springframework.jndi.JndiObjectLocator} for info on
 * how to specify the JNDI location of the target EJB.
 *
 * <p>In a bean container, this class is normally best used as a singleton. However,
 * if that bean container pre-instantiates singletons (as do the XML ApplicationContext
 * variants) you may have a problem if the bean container is loaded before the EJB
 * container loads the target EJB. That is because by default the JNDI lookup will be
 * performed in the init method of this class and cached, but the EJB will not have been
 * bound at the target location yet. The best solution is to set the "lookupHomeOnStartup"
 * property to "false", in which case the home will be fetched on first access to the EJB.
 * (This flag is only true by default for backwards compatibility reasons).

```

```

*
* <p>This invoker is typically used with an RMI business interface, which serves
* as super-interface of the EJB component interface. Alternatively, this invoker
* can also proxy a remote SLSB with a matching non-RMI business interface, i.e. an
* interface that mirrors the EJB business methods but does not declare RemoteExceptions.
* In the latter case, RemoteExceptions thrown by the EJB stub will automatically get
* converted to Spring's unchecked RemoteAccessException.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @since 09.05.2003
* @see org.springframework.remoting.RemoteAccessException
* @see AbstractSlsbInvokerInterceptor#setLookupHomeOnStartup
* @see AbstractSlsbInvokerInterceptor#setCacheHome
* @see AbstractRemoteSlsbInvokerInterceptor#setRefreshHomeOnConnectFailure
*/
public class SimpleRemoteSlsbInvokerInterceptor extends AbstractRemoteSlsbInvokerInterceptor
implements DisposableBean {

    private boolean cacheSessionBean = false;

    private Object beanInstance;

    private final Object beanInstanceMonitor = new Object();

    /**
     * Set whether to cache the actual session bean object.
     * <p>Off by default for standard EJB compliance. Turn this flag
     * on to optimize session bean access for servers that are
     * known to allow for caching the actual session bean object.
     * @see #setCacheHome
     */
    public void setCacheSessionBean(boolean cacheSessionBean) {
        this.cacheSessionBean = cacheSessionBean;
    }

    /**
     * This implementation "creates" a new EJB instance for each invocation.
     * Can be overridden for custom invocation strategies.
     * <p>Alternatively, override { @link #getSessionBeanInstance } and
     * { @link #releaseSessionBeanInstance } to change EJB instance creation,
     * for example to hold a single shared EJB component instance.
     */
    @Override
    protected Object doInvoke(MethodInvocation invocation) throws Throwable {
        Object ejb = null;

```

```

try {
    ejb = getSessionBeanInstance();
    return RmiClientInterceptorUtils.invokeRemoteMethod(invocation, ejb);
}
catch (NamingException ex) {
    throw new RemoteLookupFailureException("Failed to locate remote EJB [" + getJndiName() + "]", ex);
}
catch (InvocationTargetException ex) {
    Throwable targetEx = ex.getTargetException();
    if (targetEx instanceof RemoteException) {
        RemoteException rex = (RemoteException) targetEx;
        throw RmiClientInterceptorUtils.convertRmiAccessException(
            invocation.getMethod(), rex, isConnectFailure(rex), getJndiName());
    }
    else if (targetEx instanceof CreateException) {
        throw RmiClientInterceptorUtils.convertRmiAccessException(
            invocation.getMethod(), targetEx, "Could not create remote EJB [" + getJndiName() + "]);
    }
    throw targetEx;
}
finally {
    if (ejb instanceof EJBObject) {
        releaseSessionBeanInstance((EJBObject) ejb);
    }
}
}

/**
 * Return an EJB component instance to delegate the call to.
 * <p>The default implementation delegates to { @link #newSessionBeanInstance}.
 * @return the EJB component instance
 * @throws NamingException if thrown by JNDI
 * @throws InvocationTargetException if thrown by the create method
 * @see #newSessionBeanInstance
 */
protected Object getSessionBeanInstance() throws NamingException, InvocationTargetException {
    if (this.cacheSessionBean) {
        synchronized (this.beanInstanceMonitor) {
            if (this.beanInstance == null) {
                this.beanInstance = newSessionBeanInstance();
            }
            return this.beanInstance;
        }
    }
    else {
        return newSessionBeanInstance();
    }
}

```

```

/**
 * Release the given EJB instance.
 * <p>The default implementation delegates to { @link #removeSessionBeanInstance}.
 * @param ejb the EJB component instance to release
 * @see #removeSessionBeanInstance
 */
protected void releaseSessionBeanInstance(EJBObject ejb) {
    if (!this.cacheSessionBean) {
        removeSessionBeanInstance(ejb);
    }
}

/**
 * Reset the cached session bean instance, if necessary.
 */
@Override
protected void refreshHome() throws NamingException {
    super.refreshHome();
    if (this.cacheSessionBean) {
        synchronized (this.beanInstanceMonitor) {
            this.beanInstance = null;
        }
    }
}

/**
 * Remove the cached session bean instance, if necessary.
 */
public void destroy() {
    if (this.cacheSessionBean) {
        synchronized (this.beanInstanceMonitor) {
            if (this.beanInstance instanceof EJBObject) {
                removeSessionBeanInstance((EJBObject) this.beanInstance);
            }
        }
    }
}

}

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```



```
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

```
package org.springframework.ejb.access;
```

```
import javax.naming.NamingException;
```

```
import org.springframework.aop.framework.ProxyFactory;
```

```
import org.springframework.beans.factory.BeanClassLoaderAware;
```

```
import org.springframework.beans.factory.FactoryBean;
```

```
import org.springframework.util.ClassUtils;
```

```
/**
```

```
* Convenient {@link FactoryBean} for remote SLSB proxies.
```

```
* Designed for EJB 2.x, but works for EJB 3 Session Beans as well.
```

```
*
```

```
* <p>See {@link org.springframework.jndi.JndiObjectLocator} for info on
```

```
* how to specify the JNDI location of the target EJB.
```

```
*
```

```
* <p>If you want control over interceptor chaining, use an AOP ProxyFactoryBean
```

```
* with SimpleRemoteSlsbInvokerInterceptor rather than rely on this class.
```

```
*
```

```
* <p>In a bean container, this class is normally best used as a singleton. However,
```

```
* if that bean container pre-instantiates singletons (as do the XML ApplicationContext
```

```
* variants) you may have a problem if the bean container is loaded before the EJB
```

```
* container loads the target EJB. That is because by default the JNDI lookup will be
```

```
* performed in the init method of this class and cached, but the EJB will not have been
```

```
* bound at the target location yet. The best solution is to set the lookupHomeOnStartup
```

```
* property to false, in which case the home will be fetched on first access to the EJB.
```

```
* (This flag is only true by default for backwards compatibility reasons).
```

```
*
```

```
* <p>This proxy factory is typically used with an RMI business interface, which serves
```

```
* as super-interface of the EJB component interface. Alternatively, this factory
```

```
* can also proxy a remote SLSB with a matching non-RMI business interface, i.e. an
```

```
* interface that mirrors the EJB business methods but does not declare RemoteExceptions.
```

```
* In the latter case, RemoteExceptions thrown by the EJB stub will automatically get
```

```
* converted to Spring's unchecked RemoteAccessException.
```

```
*
```

```
* @author Rod Johnson
```

```
* @author Colin Sampaleanu
```

```
* @author Juergen Hoeller
```

```
* @since 09.05.2003
```

```
* @see org.springframework.remoting.RemoteAccessException
```

```

* @see AbstractSlsbInvokerInterceptor#setLookupHomeOnStartup
* @see AbstractSlsbInvokerInterceptor#setCacheHome
* @see AbstractRemoteSlsbInvokerInterceptor#setRefreshHomeOnConnectFailure
*/
public class SimpleRemoteStatelessSessionProxyFactoryBean extends SimpleRemoteSlsbInvokerInterceptor
implements FactoryBean<Object>, BeanClassLoaderAware {

    /** The business interface of the EJB we're proxying */
    private Class businessInterface;

    private ClassLoader beanClassLoader = ClassUtils.getDefaultClassLoader();

    /** EJBOject */
    private Object proxy;

    /**
     * Set the business interface of the EJB we're proxying.
     * This will normally be a super-interface of the EJB remote component interface.
     * Using a business methods interface is a best practice when implementing EJBs.
     * <p>You can also specify a matching non-RMI business interface, i.e. an interface
     * that mirrors the EJB business methods but does not declare RemoteExceptions.
     * In this case, RemoteExceptions thrown by the EJB stub will automatically get
     * converted to Spring's generic RemoteAccessException.
     * @param businessInterface the business interface of the EJB
     */
    public void setBusinessInterface(Class businessInterface) {
        this.businessInterface = businessInterface;
    }

    /**
     * Return the business interface of the EJB we're proxying.
     */
    public Class getBusinessInterface() {
        return this.businessInterface;
    }

    public void setBeanClassLoader(ClassLoader classLoader) {
        this.beanClassLoader = classLoader;
    }

    @Override
    public void afterPropertiesSet() throws NamingException {
        super.afterPropertiesSet();
        if (this.businessInterface == null) {
            throw new IllegalArgumentException("businessInterface is required");
        }
        this.proxy = new ProxyFactory(this.businessInterface, this).getProxy(this.beanClassLoader);
    }
}

```

```

}

public Object getObject() {
    return this.proxy;
}

public Class<?> getObjectType() {
    return this.businessInterface;
}

public boolean isSingleton() {
    return true;
}

}

```

## 1.218 org.springframework.context.support

### 3.1.0

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```

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 */

```

```
package org.springframework.mail.javamail;
```

```

import java.io.IOException;
import java.io.InputStream;
import java.util.ArrayList;
import java.util.Date;
import java.util.LinkedHashMap;
import java.util.List;

```

```

import java.util.Map;
import java.util.Properties;
import javax.activation.FileTypeMap;
import javax.mail.AuthenticationFailedException;
import javax.mail.MessagingException;
import javax.mail.NoSuchProviderException;
import javax.mail.Session;
import javax.mail.Transport;
import javax.mail.internet.MimeMessage;

import org.springframework.mail.MailAuthenticationException;
import org.springframework.mail.MailException;
import org.springframework.mail.MailParseException;
import org.springframework.mail.MailPreparationException;
import org.springframework.mail.MailSendException;
import org.springframework.mail.SimpleMailMessage;
import org.springframework.util.Assert;

/**
 * Production implementation of the { @link JavaMailSender } interface,
 * supporting both JavaMail { @link MimeMessage MimeMessages } and Spring
 * { @link SimpleMailMessage SimpleMailMessages }. Can also be used as a
 * plain { @link org.springframework.mail.MailSender } implementation.
 *
 * <p>Allows for defining all settings locally as bean properties.
 * Alternatively, a pre-configured JavaMail { @link javax.mail.Session } can be
 * specified, possibly pulled from an application server's JNDI environment.
 *
 * <p>Non-default properties in this object will always override the settings
 * in the JavaMail <code>Session</code>. Note that if overriding all values locally,
 * there is no added value in setting a pre-configured <code>Session</code>.
 *
 * @author Dmitriy Kopylenko
 * @author Juergen Hoeller
 * @since 10.09.2003
 * @see javax.mail.internet.MimeMessage
 * @see javax.mail.Session
 * @see #setSession
 * @see #setJavaMailProperties
 * @see #setHost
 * @see #setPort
 * @see #setUsername
 * @see #setPassword
 */
public class JavaMailSenderImpl implements JavaMailSender {

    /** The default protocol: 'smtp' */
    public static final String DEFAULT_PROTOCOL = "smtp";

```

```

/** The default port: -1 */
public static final int DEFAULT_PORT = -1;

private static final String HEADER_MESSAGE_ID = "Message-ID";

private Properties javaMailProperties = new Properties();

private Session session;

private String protocol;

private String host;

private int port = DEFAULT_PORT;

private String username;

private String password;

private String defaultEncoding;

private FileTypeMap defaultFileTypeMap;

/**
 * Create a new instance of the JavaMailSenderImpl class.
 * 

Initializes the { @link #setDefaultFileTypeMap "defaultFileTypeMap" }
 * property with a default { @link ConfigurableMimeFileTypeMap }.
 */
public JavaMailSenderImpl() {
    ConfigurableMimeFileTypeMap fileTypeMap = new ConfigurableMimeFileTypeMap();
    fileTypeMap.afterPropertiesSet();
    this.defaultFileTypeMap = fileTypeMap;
}

/**
 * Set JavaMail properties for the Session.
 * 

A new Session will be created with those properties.
 * Use either this method or { @link #setSession }, but not both.
 * 

Non-default properties in this instance will override given
 * JavaMail properties.
 */
public void setJavaMailProperties(Properties javaMailProperties) {
    this.javaMailProperties = javaMailProperties;
    synchronized (this) {


```

```

    this.session = null;
}
}

/**
 * Allow Map access to the JavaMail properties of this sender,
 * with the option to add or override specific entries.
 * <p>Useful for specifying entries directly, for example via
 * "javaMailProperties[mail.smtp.auth]".
 */
public Properties getJavaMailProperties() {
    return this.javaMailProperties;
}

/**
 * Set the JavaMail <code>Session</code>, possibly pulled from JNDI.
 * <p>Default is a new <code>Session</code> without defaults, that is
 * completely configured via this instance's properties.
 * <p>If using a pre-configured <code>Session</code>, non-default properties
 * in this instance will override the settings in the <code>Session</code>.
 * @see #setJavaMailProperties
 */
public synchronized void setSession(Session session) {
    Assert.notNull(session, "Session must not be null");
    this.session = session;
}

/**
 * Return the JavaMail <code>Session</code>,
 * lazily initializing it if hasn't been specified explicitly.
 */
public synchronized Session getSession() {
    if (this.session == null) {
        this.session = Session.getInstance(this.javaMailProperties);
    }
    return this.session;
}

/**
 * Set the mail protocol. Default is "smtp".
 */
public void setProtocol(String protocol) {
    this.protocol = protocol;
}

/**
 * Return the mail protocol.
 */

```

```

public String getProtocol() {
    return this.protocol;
}

/**
 * Set the mail server host, typically an SMTP host.
 * <p>Default is the default host of the underlying JavaMail Session.
 */
public void setHost(String host) {
    this.host = host;
}

/**
 * Return the mail server host.
 */
public String getHost() {
    return this.host;
}

/**
 * Set the mail server port.
 * <p>Default is { @link #DEFAULT_PORT}, letting JavaMail use the default
 * SMTP port (25).
 */
public void setPort(int port) {
    this.port = port;
}

/**
 * Return the mail server port.
 */
public int getPort() {
    return this.port;
}

/**
 * Set the username for the account at the mail host, if any.
 * <p>Note that the underlying JavaMail <code>Session</code> has to be
 * configured with the property <code>"mail.smtp.auth"</code> set to
 * <code>true</code>, else the specified username will not be sent to the
 * mail server by the JavaMail runtime. If you are not explicitly passing
 * in a <code>Session</code> to use, simply specify this setting via
 * { @link #setJavaMailProperties}.
 * @see #setSession
 * @see #setPassword
 */
public void setUsername(String username) {
    this.username = username;
}

```

```

}

/**
 * Return the username for the account at the mail host.
 */
public String getUsername() {
    return this.username;
}

/**
 * Set the password for the account at the mail host, if any.
 * <p>Note that the underlying JavaMail <code>Session</code> has to be
 * configured with the property <code>"mail.smtp.auth"</code> set to
 * <code>true</code>, else the specified password will not be sent to the
 * mail server by the JavaMail runtime. If you are not explicitly passing
 * in a <code>Session</code> to use, simply specify this setting via
 * { @link #setJavaMailProperties }.
 * @see #setSession
 * @see #setUsername
 */
public void setPassword(String password) {
    this.password = password;
}

/**
 * Return the password for the account at the mail host.
 */
public String getPassword() {
    return this.password;
}

/**
 * Set the default encoding to use for { @link MimeMessage MimeMessages }
 * created by this instance.
 * <p>Such an encoding will be auto-detected by { @link MimeMessageHelper }.
 */
public void setDefaultEncoding(String defaultEncoding) {
    this.defaultEncoding = defaultEncoding;
}

/**
 * Return the default encoding for { @link MimeMessage MimeMessages },
 * or <code>null</code> if none.
 */
public String getDefaultEncoding() {
    return this.defaultEncoding;
}

```



```

/**
 * Set the default Java Activation { @link FileTypeMap } to use for
 * { @link MimeMessage MimeMessages } created by this instance.
 * <p>A <code>FileTypeMap</code> specified here will be autodetected by
 * { @link MimeMessageHelper }, avoiding the need to specify the
 * <code>FileTypeMap</code> for each <code>MimeMessageHelper</code> instance.
 * <p>For example, you can specify a custom instance of Spring's
 * { @link ConfigurableMimeFileTypeMap } here. If not explicitly specified,
 * a default <code>ConfigurableMimeFileTypeMap</code> will be used, containing
 * an extended set of MIME type mappings (as defined by the
 * <code>mime.types</code> file contained in the Spring jar).
 * @see MimeMessageHelper#setFileTypeMap
 */
public void setDefaultFileTypeMap(FileTypeMap defaultFileTypeMap) {
    this.defaultFileTypeMap = defaultFileTypeMap;
}

/**
 * Return the default Java Activation { @link FileTypeMap } for
 * { @link MimeMessage MimeMessages }, or <code>null</code> if none.
 */
public FileTypeMap getDefaultFileTypeMap() {
    return this.defaultFileTypeMap;
}

//-----
// Implementation of MailSender
//-----

public void send(SimpleMailMessage simpleMessage) throws MailException {
    send(new SimpleMailMessage[] { simpleMessage });
}

public void send(SimpleMailMessage[] simpleMessages) throws MailException {
    List<MimeMessage> mimeMessages = new ArrayList<MimeMessage>(simpleMessages.length);
    for (SimpleMailMessage simpleMessage : simpleMessages) {
        MimeMailMessage message = new MimeMailMessage(createMimeMessage());
        simpleMessage.copyTo(message);
        mimeMessages.add(message.getMimeMessage());
    }
    doSend(mimeMessages.toArray(new MimeMessage[mimeMessages.size()]), simpleMessages);
}

//-----
// Implementation of JavaMailSender
//-----

```

```

/**
 * This implementation creates a SmartMimeMessage, holding the specified
 * default encoding and default FileTypeMap. This special defaults-carrying
 * message will be autodetected by { @link MimeMessageHelper }, which will use
 * the carried encoding and FileTypeMap unless explicitly overridden.
 * @see #setDefaultEncoding
 * @see #setDefaultFileTypeMap
 */
public MimeMessage createMimeMessage() {
    return new SmartMimeMessage(getSession(), getDefaultEncoding(), getDefaultFileTypeMap());
}

public MimeMessage createMimeMessage(InputStream contentStream) throws MailException {
    try {
        return new MimeMessage(getSession(), contentStream);
    }
    catch (MessagingException ex) {
        throw new MailParseException("Could not parse raw MIME content", ex);
    }
}

public void send(MimeMessage mimeMessage) throws MailException {
    send(new MimeMessage[] { mimeMessage });
}

public void send(MimeMessage[] mimeMessages) throws MailException {
    doSend(mimeMessages, null);
}

public void send(MimeMessagePreparator mimeMessagePreparator) throws MailException {
    send(new MimeMessagePreparator[] { mimeMessagePreparator });
}

public void send(MimeMessagePreparator[] mimeMessagePreparators) throws MailException {
    try {
        List<MimeMessage> mimeMessages = new ArrayList<MimeMessage>(mimeMessagePreparators.length);
        for (MimeMessagePreparator preparator : mimeMessagePreparators) {
            MimeMessage mimeMessage = createMimeMessage();
            preparator.prepare(mimeMessage);
            mimeMessages.add(mimeMessage);
        }
        send(mimeMessages.toArray(new MimeMessage[mimeMessages.size()]));
    }
    catch (MailException ex) {
        throw ex;
    }
    catch (MessagingException ex) {

```

```

        throw new MailParseException(ex);
    }
    catch (IOException ex) {
        throw new MailPreparationException(ex);
    }
    catch (Exception ex) {
        throw new MailPreparationException(ex);
    }
}

/**
 * Actually send the given array of MimeMessages via JavaMail.
 * @param mimeMessages MimeMessage objects to send
 * @param originalMessages corresponding original message objects
 * that the MimeMessages have been created from (with same array
 * length and indices as the "mimeMessages" array), if any
 * @throws org.springframework.mail.MailAuthenticationException
 * in case of authentication failure
 * @throws org.springframework.mail.MailSendException
 * in case of failure when sending a message
 */
protected void doSend(MimeMessage[] mimeMessages, Object[] originalMessages) throws MailException {
    Map<Object, Exception> failedMessages = new LinkedHashMap<Object, Exception>();

    Transport transport;
    try {
        transport = getTransport(getSession());
        transport.connect(getHost(), getPort(), getUsername(), getPassword());
    }
    catch (AuthenticationFailedException ex) {
        throw new MailAuthenticationException(ex);
    }
    catch (MessagingException ex) {
        // Effectively, all messages failed...
        for (int i = 0; i < mimeMessages.length; i++) {
            Object original = (originalMessages != null ? originalMessages[i] : mimeMessages[i]);
            failedMessages.put(original, ex);
        }
        throw new MailSendException("Mail server connection failed", ex, failedMessages);
    }

    try {
        for (int i = 0; i < mimeMessages.length; i++) {
            MimeMessage mimeMessage = mimeMessages[i];
            try {
                if (mimeMessage.getSentDate() == null) {
                    mimeMessage.setSentDate(new Date());
                }
            }
        }
    }
}

```

```

    }
    String messageId = mimeMessage.getMessageID();
    mimeMessage.saveChanges();
    if (messageId != null) {
        // Preserve explicitly specified message id...
        mimeMessage.setHeader(HEADER_MESSAGE_ID, messageId);
    }
    transport.sendMessage(mimeMessage, mimeMessage.getAllRecipients());
}
catch (MessagingException ex) {
    Object original = (originalMessages != null ? originalMessages[i] : mimeMessage);
    failedMessages.put(original, ex);
}
}
}
finally {
    try {
        transport.close();
    }
    catch (MessagingException ex) {
        if (!failedMessages.isEmpty()) {
            throw new MailSendException("Failed to close server connection after message failures", ex,
                failedMessages);
        }
        else {
            throw new MailSendException("Failed to close server connection after message sending", ex);
        }
    }
}

if (!failedMessages.isEmpty()) {
    throw new MailSendException(failedMessages);
}
}

/**
 * Obtain a Transport object from the given JavaMail Session,
 * using the configured protocol.
 * <p>Can be overridden in subclasses, e.g. to return a mock Transport object.
 * @see javax.mail.Session#getTransport(String)
 * @see #getProtocol()
 */
protected Transport getTransport(Session session) throws NoSuchProviderException {
    String protocol = getProtocol();
    if (protocol == null) {
        protocol = session.getProperty("mail.transport.protocol");
    }
    if (protocol == null) {
        protocol = DEFAULT_PROTOCOL;
    }
}

```

```

    }
    }
    return session.getTransport(protocol);
}

}
/*
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 */

package org.springframework.mail;

import java.io.Serializable;
import java.util.Date;

import org.springframework.util.ObjectUtils;
import org.springframework.util.StringUtils;
import org.springframework.util.Assert;

/**
 * Models a simple mail message, including data such as the from, to, cc, subject, and text fields.
 *
 * <p>Consider JavaMailSender and JavaMail MimeMessages for creating
 * more sophisticated messages, for example messages with attachments, special
 * character encodings, or personal names that accompany mail addresses.
 *
 * @author Dmitriy Kopylenko
 * @author Juergen Hoeller
 * @since 10.09.2003
 * @see MailSender
 * @see org.springframework.mail.javamail.JavaMailSender
 * @see org.springframework.mail.javamail.MimeMessagePreparator
 * @see org.springframework.mail.javamail.MimeMessageHelper
 * @see org.springframework.mail.javamail.MimeMailMessage
 */
public class SimpleMailMessage implements MailMessage, Serializable {

```

```

private String from;

private String replyTo;

private String[] to;

private String[] cc;

private String[] bcc;

private Date sentDate;

private String subject;

private String text;

/**
 * Create a new <code>SimpleMailMessage</code>.
 */
public SimpleMailMessage() {
}

/**
 * Copy constructor for creating a new <code>SimpleMailMessage</code> from the state
 * of an existing <code>SimpleMailMessage</code> instance.
 * @throws IllegalArgumentException if the supplied message is <code>>null</code>
 */
public SimpleMailMessage(SimpleMailMessage original) {
    Assert.notNull(original, "The 'original' message argument cannot be null");
    this.from = original.getFrom();
    this.replyTo = original.getReplyTo();
    if (original.getTo() != null) {
        this.to = copy(original.getTo());
    }
    if (original.getCc() != null) {
        this.cc = copy(original.getCc());
    }
    if (original.getBcc() != null) {
        this.bcc = copy(original.getBcc());
    }
    this.sentDate = original.getSentDate();
    this.subject = original.getSubject();
    this.text = original.getText();
}

```

```
public void setFrom(String from) {
    this.from = from;
}

public String getFrom() {
    return this.from;
}

public void setReplyTo(String replyTo) {
    this.replyTo = replyTo;
}

public String getReplyTo() {
    return replyTo;
}

public void setTo(String to) {
    this.to = new String[] {to};
}

public void setTo(String[] to) {
    this.to = to;
}

public String[] getTo() {
    return this.to;
}

public void setCc(String cc) {
    this.cc = new String[] {cc};
}

public void setCc(String[] cc) {
    this.cc = cc;
}

public String[] getCc() {
    return cc;
}

public void setBcc(String bcc) {
    this.bcc = new String[] {bcc};
}

public void setBcc(String[] bcc) {
    this.bcc = bcc;
}
```

```

public String[] getBcc() {
    return bcc;
}

public void setSentDate(Date sentDate) {
    this.sentDate = sentDate;
}

public Date getSentDate() {
    return sentDate;
}

public void setSubject(String subject) {
    this.subject = subject;
}

public String getSubject() {
    return this.subject;
}

public void setText(String text) {
    this.text = text;
}

public String getText() {
    return this.text;
}

/**
 * Copy the contents of this message to the given target message.
 * @param target the <code>MailMessage</code> to copy to
 * @throws IllegalArgumentException if the supplied <code>target</code> is <code>null</code>
 */
public void copyTo(MailMessage target) {
    Assert.notNull(target, "The 'target' message argument cannot be null");
    if (getFrom() != null) {
        target.setFrom(getFrom());
    }
    if (getReplyTo() != null) {
        target.setReplyTo(getReplyTo());
    }
    if (getTo() != null) {
        target.setTo(getTo());
    }
    if (getCc() != null) {
        target.setCc(getCc());
    }
}

```



```

if (getBcc() != null) {
    target.setBcc(getBcc());
}
if (getSentDate() != null) {
    target.setSentDate(getSentDate());
}
if (getSubject() != null) {
    target.setSubject(getSubject());
}
if (getText() != null) {
    target.setText(getText());
}
}

```

@Override

```

public String toString() {
    StringBuilder sb = new StringBuilder("SimpleMailMessage: ");
    sb.append("from=").append(this.from).append("; ");
    sb.append("replyTo=").append(this.replyTo).append("; ");
    sb.append("to=").append(StringUtils.arrayToCommaDelimitedString(this.to)).append("; ");
    sb.append("cc=").append(StringUtils.arrayToCommaDelimitedString(this.cc)).append("; ");
    sb.append("bcc=").append(StringUtils.arrayToCommaDelimitedString(this.bcc)).append("; ");
    sb.append("sentDate=").append(this.sentDate).append("; ");
    sb.append("subject=").append(this.subject).append("; ");
    sb.append("text=").append(this.text);
    return sb.toString();
}

```

@Override

```

public boolean equals(Object other) {
    if (this == other) {
        return true;
    }
    if (!(other instanceof SimpleMailMessage)) {
        return false;
    }
    SimpleMailMessage otherMessage = (SimpleMailMessage) other;
    return (ObjectUtils.nullSafeEquals(this.from, otherMessage.from) &&
        ObjectUtils.nullSafeEquals(this.replyTo, otherMessage.replyTo) &&
        java.util.Arrays.equals(this.to, otherMessage.to) &&
        java.util.Arrays.equals(this.cc, otherMessage.cc) &&
        java.util.Arrays.equals(this.bcc, otherMessage.bcc) &&
        ObjectUtils.nullSafeEquals(this.sentDate, otherMessage.sentDate) &&
        ObjectUtils.nullSafeEquals(this.subject, otherMessage.subject) &&
        ObjectUtils.nullSafeEquals(this.text, otherMessage.text));
}

```

```

@Override
public int hashCode() {
    int hashCode = (this.from == null ? 0 : this.from.hashCode());
    hashCode = 29 * hashCode + (this.replyTo == null ? 0 : this.replyTo.hashCode());
    for (int i = 0; this.to != null && i < this.to.length; i++) {
        hashCode = 29 * hashCode + (this.to == null ? 0 : this.to[i].hashCode());
    }
    for (int i = 0; this.cc != null && i < this.cc.length; i++) {
        hashCode = 29 * hashCode + (this.cc == null ? 0 : this.cc[i].hashCode());
    }
    for (int i = 0; this.bcc != null && i < this.bcc.length; i++) {
        hashCode = 29 * hashCode + (this.bcc == null ? 0 : this.bcc[i].hashCode());
    }
    hashCode = 29 * hashCode + (this.sentDate == null ? 0 : this.sentDate.hashCode());
    hashCode = 29 * hashCode + (this.subject == null ? 0 : this.subject.hashCode());
    hashCode = 29 * hashCode + (this.text == null ? 0 : this.text.hashCode());
    return hashCode;
}

private static String[] copy(String[] state) {
    String[] copy = new String[state.length];
    System.arraycopy(state, 0, copy, 0, state.length);
    return copy;
}

}
/*
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 * limitations under the License.
 */

package org.springframework.scheduling.quartz;

import java.util.concurrent.Callable;
import java.util.concurrent.Future;
import java.util.concurrent.FutureTask;

```

```

import org.quartz.SchedulerConfigException;
import org.quartz.simpl.SimpleThreadPool;

import org.springframework.beans.factory.DisposableBean;
import org.springframework.beans.factory.InitializingBean;
import org.springframework.scheduling.SchedulingException;
import org.springframework.scheduling.SchedulingTaskExecutor;
import org.springframework.util.Assert;

/**
 * Subclass of Quartz's SimpleThreadPool that implements Spring's
 * { @link org.springframework.core.task.TaskExecutor } interface
 * and listens to Spring lifecycle callbacks.
 *
 * <p>Can be shared between a Quartz Scheduler (specified as "taskExecutor")
 * and other TaskExecutor users, or even used completely independent of
 * a Quartz Scheduler (as plain TaskExecutor backend).
 *
 * @author Juergen Hoeller
 * @since 2.0
 * @see org.quartz.simpl.SimpleThreadPool
 * @see org.springframework.core.task.TaskExecutor
 * @see SchedulerFactoryBean#setTaskExecutor
 */
public class SimpleThreadPoolTaskExecutor extends SimpleThreadPool
    implements SchedulingTaskExecutor, InitializingBean, DisposableBean {

    private boolean waitForJobsToCompleteOnShutdown = false;

    /**
     * Set whether to wait for running jobs to complete on shutdown.
     * Default is "false".
     * @see org.quartz.simpl.SimpleThreadPool#shutdown(boolean)
     */
    public void setWaitForJobsToCompleteOnShutdown(boolean waitForJobsToCompleteOnShutdown) {
        this.waitForJobsToCompleteOnShutdown = waitForJobsToCompleteOnShutdown;
    }

    public void afterPropertiesSet() throws SchedulerConfigException {
        initialize();
    }

    public void execute(Runnable task) {
        Assert.notNull(task, "Runnable must not be null");
        if (!runInThread(task)) {

```

```

    throw new SchedulingException("Quartz SimpleThreadPool already shut down");
}
}

public void execute(Runnable task, long startTimeout) {
    execute(task);
}

public Future<?> submit(Runnable task) {
    FutureTask<Object> future = new FutureTask<Object>(task, null);
    execute(future);
    return future;
}

public <T> Future<T> submit(Callable<T> task) {
    FutureTask<T> future = new FutureTask<T>(task);
    execute(future);
    return future;
}

/**
 * This task executor prefers short-lived work units.
 */
public boolean prefersShortLivedTasks() {
    return true;
}

public void destroy() {
    shutdown(this.waitForJobsToCompleteOnShutdown);
}

}

/**
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

```

```

package org.springframework.scheduling.quartz;

import java.text.ParseException;
import java.util.Date;
import java.util.Map;

import org.quartz.JobDetail;
import org.quartz.Scheduler;
import org.quartz.SimpleTrigger;

import org.springframework.beans.factory.BeanNameAware;
import org.springframework.beans.factory.InitializingBean;
import org.springframework.core.Constants;

/**
 * Convenience subclass of Quartz's { @link org.quartz.SimpleTrigger } class,
 * making bean-style usage easier.
 *
 * <p><code>SimpleTrigger</code> itself is already a JavaBean but lacks sensible defaults.
 * This class uses the Spring bean name as job name, the Quartz default group
 * ("DEFAULT") as job group, the current time as start time, and indefinite
 * repetition, if not specified.
 *
 * <p>This class will also register the trigger with the job name and group of
 * a given { @link org.quartz.JobDetail }. This allows { @link SchedulerFactoryBean }
 * to automatically register a trigger for the corresponding JobDetail,
 * instead of registering the JobDetail separately.
 *
 * <p><b>NOTE: This convenience subclass does not work against Quartz 2.0.</b>
 * Use Quartz 2.0's native <code>JobDetailImpl</code> class or the new Quartz 2.0
 * builder API instead. Alternatively, switch to Spring's { @link SimpleTriggerFactoryBean }
 * which largely is a drop-in replacement for this class and its properties and
 * consistently works against Quartz 1.x as well as Quartz 2.0/2.1.
 *
 * @author Juergen Hoeller
 * @since 18.02.2004
 * @see #setName
 * @see #setGroup
 * @see #setStartTime
 * @see #setJobName
 * @see #setJobGroup
 * @see #setJobDetail
 * @see SchedulerFactoryBean#setTriggers
 * @see SchedulerFactoryBean#setJobDetails
 * @see CronTriggerBean
 */
public class SimpleTriggerBean extends SimpleTrigger

```

```

implements JobDetailAwareTrigger, BeanNameAware, InitializingBean {

/** Constants for the SimpleTrigger class */
private static final Constants constants = new Constants(SimpleTrigger.class);

private long startDelay = 0;

private JobDetail jobDetail;

private String beanName;

public SimpleTriggerBean() {
    setRepeatCount(REPEAT_INDEFINITELY);
}

/**
 * Register objects in the JobDataMap via a given Map.
 * <p>These objects will be available to this Trigger only,
 * in contrast to objects in the JobDetail's data map.
 * @param jobDataAsMap Map with String keys and any objects as values
 * (for example Spring-managed beans)
 * @see JobDetailBean#setJobDataAsMap
 */
public void setJobDataAsMap(Map<String, ?> jobDataAsMap) {
    getJobDataMap().putAll(jobDataAsMap);
}

/**
 * Set the misfire instruction via the name of the corresponding
 * constant in the { @link org.quartz.SimpleTrigger} class.
 * Default is <code>MISFIRE_INSTRUCTION_SMART_POLICY</code>.
 * @see org.quartz.SimpleTrigger#MISFIRE_INSTRUCTION_FIRE_NOW
 * @see
org.quartz.SimpleTrigger#MISFIRE_INSTRUCTION_RESCHEDULE_NEXT_WITH_EXISTING_COUNT
 * @see
org.quartz.SimpleTrigger#MISFIRE_INSTRUCTION_RESCHEDULE_NEXT_WITH_REMAINING_COUNT
 * @see
org.quartz.SimpleTrigger#MISFIRE_INSTRUCTION_RESCHEDULE_NOW_WITH_EXISTING_REPEAT_COU
NT
 * @see
org.quartz.SimpleTrigger#MISFIRE_INSTRUCTION_RESCHEDULE_NOW_WITH_REMAINING_REPEAT_C
OUNT
 * @see org.quartz.Trigger#MISFIRE_INSTRUCTION_SMART_POLICY
 */
public void setMisfireInstructionName(String constantName) {
    setMisfireInstruction(constants.asNumber(constantName).intValue());
}

```

```

}

/**
 * Set a list of TriggerListener names for this job, referring to
 * non-global TriggerListeners registered with the Scheduler.
 * <p>A TriggerListener name always refers to the name returned
 * by the TriggerListener implementation.
 * @see SchedulerFactoryBean#setTriggerListeners
 * @see org.quartz.TriggerListener#getName
 */
public void setTriggerListenerNames(String[] names) {
    for (int i = 0; i < names.length; i++) {
        addTriggerListener(names[i]);
    }
}

/**
 * Set the start delay in milliseconds.
 * <p>The start delay is added to the current system time (when the bean starts)
 * to control the { @link #setStartTime start time} of the trigger.
 * <p>If the start delay is non-zero, it will <strong>always</strong>
 * take precedence over start time.
 * @param startDelay the start delay, in milliseconds
 */
public void setStartDelay(long startDelay) {
    this.startDelay = startDelay;
}

/**
 * Set the JobDetail that this trigger should be associated with.
 * <p>This is typically used with a bean reference if the JobDetail
 * is a Spring-managed bean. Alternatively, the trigger can also
 * be associated with a job by name and group.
 * @see #setJobName
 * @see #setJobGroup
 */
public void setJobDetail(JobDetail jobDetail) {
    this.jobDetail = jobDetail;
}

public JobDetail getJobDetail() {
    return this.jobDetail;
}

public void setBeanName(String beanName) {
    this.beanName = beanName;
}

```

```

public void afterPropertiesSet() throws ParseException {
    if (getName() == null) {
        setName(this.beanName);
    }
    if (getGroup() == null) {
        setGroup(Scheduler.DEFAULT_GROUP);
    }
    if (getStartTime() == null) {
        setStartTime(new Date(System.currentTimeMillis() + this.startDelay));
    }
    if (this.jobDetail != null) {
        setJobName(this.jobDetail.getName());
        setJobGroup(this.jobDetail.getGroup());
    }
}

}
/*
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */

package org.springframework.scheduling.quartz;

import java.lang.reflect.Method;
import java.text.ParseException;
import java.util.Date;
import java.util.Map;

import org.quartz.JobDataMap;
import org.quartz.JobDetail;
import org.quartz.Scheduler;
import org.quartz.SimpleTrigger;

import org.springframework.beans.BeanWrapper;
import org.springframework.beans.BeanWrapperImpl;

```



```

import org.springframework.beans.MutablePropertyValues;
import org.springframework.beans.factory.BeanNameAware;
import org.springframework.beans.factory.FactoryBean;
import org.springframework.beans.factory.InitializingBean;
import org.springframework.core.Constants;
import org.springframework.util.Assert;
import org.springframework.util.ReflectionUtils;

/**
 * A Spring { @link FactoryBean } for creating a Quartz { @link org.quartz.SimpleTrigger }
 * instance, supporting bean-style usage for trigger configuration.
 *
 * <p><code>SimpleTrigger(Impl)</code> itself is already a JavaBean but lacks sensible defaults.
 * This class uses the Spring bean name as job name, the Quartz default group ("DEFAULT")
 * as job group, the current time as start time, and indefinite repetition, if not specified.
 *
 * <p>This class will also register the trigger with the job name and group of
 * a given { @link org.quartz.JobDetail }. This allows { @link SchedulerFactoryBean }
 * to automatically register a trigger for the corresponding JobDetail,
 * instead of registering the JobDetail separately.
 *
 * <p><b>NOTE:</b> This FactoryBean works against both Quartz 1.x and Quartz 2.0/2.1,
 * in contrast to the older { @link SimpleTriggerBean } class.
 *
 * @author Juergen Hoeller
 * @since 3.1
 * @see #setName
 * @see #setGroup
 * @see #setStartTime
 * @see #setJobName
 * @see #setJobGroup
 * @see #setJobDetail
 * @see org.springframework.scheduling.quartz.SchedulerFactoryBean#setTriggers
 * @see org.springframework.scheduling.quartz.SchedulerFactoryBean#setJobDetails
 * @see org.springframework.scheduling.quartz.CronTriggerBean
 */
public class SimpleTriggerFactoryBean implements FactoryBean<SimpleTrigger>, BeanNameAware,
InitializingBean {

    /** Constants for the SimpleTrigger class */
    private static final Constants constants = new Constants(SimpleTrigger.class);

    private String name;

    private String group;

    private JobDetail jobDetail;

```

```

private JobDataMap jobDataMap = new JobDataMap();

private Date startTime;

private long startDelay;

private long repeatInterval;

private int priority;

private int misfireInstruction;

private String beanName;

private SimpleTrigger simpleTrigger;

/**
 * Specify the trigger's name.
 */
public void setName(String name) {
    this.name = name;
}

/**
 * Specify the trigger's group.
 */
public void setGroup(String group) {
    this.group = group;
}

/**
 * Set the JobDetail that this trigger should be associated with.
 */
public void setJobDetail(JobDetail jobDetail) {
    this.jobDetail = jobDetail;
}

/**
 * Set the trigger's JobDataMap.
 * @see #setJobDataAsMap
 */
public void setJobDataMap(JobDataMap jobDataMap) {
    this.jobDataMap = jobDataMap;
}

/**

```

```

* Return the trigger's JobDataMap.
*/
public JobDataMap getJobDataMap() {
    return this.jobDataMap;
}

/**
* Register objects in the JobDataMap via a given Map.
* <p>These objects will be available to this Trigger only,
* in contrast to objects in the JobDetail's data map.
* @param jobDataAsMap Map with String keys and any objects as values
* (for example Spring-managed beans)
* @see org.springframework.scheduling.quartz.JobDetailBean#setJobDataAsMap
*/
public void setJobDataAsMap(Map<String, ?> jobDataAsMap) {
    this.jobDataMap.putAll(jobDataAsMap);
}

/**
* Set the start delay in milliseconds.
* <p>The start delay is added to the current system time (when the bean starts)
* to control the start time of the trigger.
* @param startDelay the start delay, in milliseconds
*/
public void setStartDelay(long startDelay) {
    Assert.state(startDelay >= 0, "Start delay cannot be negative.");
    this.startDelay = startDelay;
}

/**
* Specify the interval between execution times of this trigger.
*/
public void setRepeatInterval(long repeatInterval) {
    this.repeatInterval = repeatInterval;
}

/**
* Specify the priority of this trigger.
*/
public void setPriority(int priority) {
    this.priority = priority;
}

/**
* Specify a misfire instruction for this trigger.
*/
public void setMisfireInstruction(int misfireInstruction) {
    this.misfireInstruction = misfireInstruction;
}

```

```

}

/**
 * Set the misfire instruction via the name of the corresponding
 * constant in the { @link org.quartz.SimpleTrigger} class.
 * Default is <code>MISFIRE_INSTRUCTION_SMART_POLICY</code>.
 * @see org.quartz.SimpleTrigger#MISFIRE_INSTRUCTION_FIRE_NOW
 * @see
org.quartz.SimpleTrigger#MISFIRE_INSTRUCTION_RESCHEDULE_NEXT_WITH_EXISTING_COUNT
 * @see
org.quartz.SimpleTrigger#MISFIRE_INSTRUCTION_RESCHEDULE_NEXT_WITH_REMAINING_COUNT
 * @see
org.quartz.SimpleTrigger#MISFIRE_INSTRUCTION_RESCHEDULE_NOW_WITH_EXISTING_REPEAT_COU
NT
 * @see
org.quartz.SimpleTrigger#MISFIRE_INSTRUCTION_RESCHEDULE_NOW_WITH_REMAINING_REPEAT_C
OUNT
 * @see org.quartz.Trigger#MISFIRE_INSTRUCTION_SMART_POLICY
 */
public void setMisfireInstructionName(String constantName) {
    this.misfireInstruction = constants.asNumber(constantName).intValue();
}

public void setBeanName(String beanName) {
    this.beanName = beanName;
}

public void afterPropertiesSet() throws ParseException {
    if (this.name == null) {
        this.name = this.beanName;
    }
    if (this.group == null) {
        this.group = Scheduler.DEFAULT_GROUP;
    }
    if (this.jobDetail != null) {
        this.jobDataMap.put(JobDetailAwareTrigger.JOB_DETAIL_KEY, this.jobDetail);
    }
    if (this.startDelay > 0) {
        this.startTime = new Date(System.currentTimeMillis() + this.startDelay);
    }
    else if (this.startTime == null) {
        this.startTime = new Date();
    }
}

/**
SimpleTriggerImpl sti = new SimpleTriggerImpl();
sti.setName(this.name);

```

```

sti.setGroup(this.group);
sti.setJobKey(this.jobDetail.getKey());
sti.setJobDataMap(this.jobDataMap);
sti.setStartTime(this.startTime);
sti.setRepeatInterval(this.repeatInterval);
sti.setPriority(this.priority);
sti.setMisfireInstruction(this.misfireInstruction);
this.simpleTrigger = sti;
*/

Class simpleTriggerClass;
Method jobKeyMethod;
try {
    simpleTriggerClass = getClass().getClassLoader().loadClass("org.quartz.impl.triggers.SimpleTriggerImpl");
    jobKeyMethod = JobDetail.class.getMethod("getKey");
}
catch (ClassNotFoundException ex) {
    simpleTriggerClass = SimpleTrigger.class;
    jobKeyMethod = null;
}
catch (NoSuchMethodException ex) {
    throw new IllegalStateException("Incompatible Quartz version");
}
BeanWrapper bw = new BeanWrapperImpl(simpleTriggerClass);
MutablePropertyValues pvs = new MutablePropertyValues();
pvs.add("name", this.name);
pvs.add("group", this.group);
if (jobKeyMethod != null) {
    pvs.add("jobKey", ReflectionUtils.invokeMethod(jobKeyMethod, this.jobDetail));
}
else {
    pvs.add("jobName", this.jobDetail.getName());
    pvs.add("jobGroup", this.jobDetail.getGroup());
}
pvs.add("jobDataMap", this.jobDataMap);
pvs.add("startTime", this.startTime);
pvs.add("repeatInterval", this.repeatInterval);
pvs.add("repeatCount", -1);
pvs.add("priority", this.priority);
pvs.add("misfireInstruction", this.misfireInstruction);
bw.setPropertyValues(pvs);
this.simpleTrigger = (SimpleTrigger) bw.getWrappedInstance();
}

public SimpleTrigger getObject() {
    return this.simpleTrigger;
}

```

```

public Class<?> getObjectType() {
    return SimpleTrigger.class;
}

public boolean isSingleton() {
    return true;
}
}
/*
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */

package org.springframework.ui.freemarker;

import java.io.IOException;
import java.io.StringWriter;

import freemarker.template.Template;
import freemarker.template.TemplateException;

/**
 * Utility class for working with FreeMarker.
 * Provides convenience methods to process a FreeMarker template with a model.
 *
 * @author Juergen Hoeller
 * @since 14.03.2004
 */
public abstract class FreeMarkerTemplateUtils {

    /**
     * Process the specified FreeMarker template with the given model and write
     * the result to the given Writer.
     *
     * <p>When using this method to prepare a text for a mail to be sent with Spring's
     * mail support, consider wrapping IO/TemplateException in MailPreparationException.
     *
     * @param model the model object, typically a Map that contains model names

```

```

* as keys and model objects as values
* @return the result as String
* @throws IOException if the template wasn't found or couldn't be read
* @throws freemarker.template.TemplateException if rendering failed
* @see org.springframework.mail.MailPreparationException
*/
public static String processTemplateIntoString(Template template, Object model)
    throws IOException, TemplateException {
    StringWriter result = new StringWriter();
    template.process(model, result);
    return result.toString();
}

}

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*/

package org.springframework.ui.freemarker;

import java.io.IOException;
import java.io.InputStreamReader;
import java.io.Reader;

import freemarker.cache.TemplateLoader;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;

import org.springframework.core.io.Resource;
import org.springframework.core.io.ResourceLoader;

/**
* FreeMarker TemplateLoader adapter that loads via a Spring ResourceLoader.
* Used by FreeMarkerConfigurationFactory for any resource loader path that
* cannot be resolved to a java.io.File.
*
*/

```

```

* @author Juergen Hoeller
* @since 14.03.2004
* @see FreeMarkerConfigurationFactory#setTemplateLoaderPath
* @see freemarker.template.Configuration#setDirectoryForTemplateLoading
*/
public class SpringTemplateLoader implements TemplateLoader {

    protected final Log logger = LogFactory.getLog(getClass());

    private final ResourceLoader resourceLoader;

    private final String templateLoaderPath;

    /**
     * Create a new SpringTemplateLoader.
     * @param resourceLoader the Spring ResourceLoader to use
     * @param templateLoaderPath the template loader path to use
     */
    public SpringTemplateLoader(ResourceLoader resourceLoader, String templateLoaderPath) {
        this.resourceLoader = resourceLoader;
        if (!templateLoaderPath.endsWith("/")) {
            templateLoaderPath += "/";
        }
        this.templateLoaderPath = templateLoaderPath;
        if (logger.isInfoEnabled()) {
            logger.info("SpringTemplateLoader for FreeMarker: using resource loader [" + this.resourceLoader +
                "] and template loader path [" + this.templateLoaderPath + "]);
        }
    }

    public Object findTemplateSource(String name) throws IOException {
        if (logger.isDebugEnabled()) {
            logger.debug("Looking for FreeMarker template with name [" + name + "]);
        }
        Resource resource = this.resourceLoader.getResource(this.templateLoaderPath + name);
        return (resource.exists() ? resource : null);
    }

    public Reader getReader(Object templateSource, String encoding) throws IOException {
        Resource resource = (Resource) templateSource;
        try {
            return new InputStreamReader(resource.getInputStream(), encoding);
        }
        catch (IOException ex) {
            if (logger.isDebugEnabled()) {
                logger.debug("Could not find FreeMarker template: " + resource);
            }
        }
    }
}

```



```

        throw ex;
    }
}

public long getLastModified(Object templateSource) {
    Resource resource = (Resource) templateSource;
    try {
        return resource.lastModified();
    }
    catch (IOException ex) {
        if (logger.isDebugEnabled()) {
            logger.debug("Could not obtain last-modified timestamp for FreeMarker template in " +
                resource + ": " + ex);
        }
        return -1;
    }
}

public void closeTemplateSource(Object templateSource) throws IOException {
}

}

```

## 1.219 org.springframework.core

### 3.0.5.RELEASE

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## 1.220 org.springframework.expression

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## 1.223 org.springframework.web.servlet

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## 1.224 org.springframework.web.struts

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
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(at your option) any later version.
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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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Version 3, 29 June 2007

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Version 3, 29 June 2007

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## 1.246 saxpath 1.0

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## 1.247 servlet-api 2.5

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When upgrading Lucene-Java Jars, remember to generate new Analysis factories for any new Tokenizers or TokenFilters. See the wiki for details...

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VERSION: 2.1 PoliMorf

BUILD: 2016-02-13 19:37:50+01:00

GIT: 6e63b53

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[1] <http://www.ecma-international.org/publications/standards/Ecma-376.htm>

[2] <http://www.ecma-international.org/memento/Ecmabylaws.htm>

[3] <http://www.microsoft.com/interop/osp/>

[4] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/ECMA-376%20Edition%201%20Microsoft%20Patent%20Declaration.pdf>

[5] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/ga-2006-191.pdf>

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It specifically implements StAX 1.0 API:

<http://www.jcp.org/en/jsr/detail?id=173>

which defines what is closest to being the J2xE standard for XML pull parsers.

Woodstox was originally written by Tatu Saloranta (<[tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)>).

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JUnit4, parallel JUnit execution for ANT

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# Jackson JSON processor

```

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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If you would like to comment, improve, criticize the project please email me: [wgradkowski@gmail.com](mailto:wgradkowski@gmail.com)

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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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Version 3, 29 June 2007

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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authors make in writing HTML documents. NekoHTML adds missing parent



elements; automatically closes elements with optional end tags; and can handle mismatched inline element tags.

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<http://fgnass.github.io/spin.js/>

Features

No images, no external CSS

No dependencies (jQuery is supported, but not required)  
Highly configurable  
Resolution independent  
Uses VML as fallback in old IEs  
Uses @keyframe animations, falling back to setTimeout()  
Works in all major browsers, including IE6  
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## 1.264 spring-core 3.1.0.RELEASE

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# 1.267 spring-instrument-tomcat

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## 1.275 spring-security-core 3.1.2.RELEASE

## 1.276 spring-security-saml2-core 1.0.2.RELEASE

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# 1.288 Streaming API for XML (STAX API 1.0)

## 1.0.1

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<?xml version="1.0" encoding="ISO-8859-1" ?>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"

"<http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd>">

<html xmlns="<http://www.w3.org/1999/xhtml>">

<head>

<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />

<title>Eclipse Public License - Version 1.0</title>

<style type="text/css">

body {

size: 8.5in 11.0in;

margin: 0.25in 0.5in 0.25in 0.5in;

tab-interval: 0.5in;

}

p {

margin-left: auto;

margin-top: 0.5em;

margin-bottom: 0.5em;

}

p.list {

margin-left: 0.5in;

margin-top: 0.05em;

margin-bottom: 0.05em;

}

</style>

</head>

<body lang="EN-US">

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</body>

</html>

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">

<html lang="en">



```

<head>
  <title>Apache License, Version 2.0</title>

  <meta http-equiv="Content-Type" content="text/html;charset=UTF-8">
  <meta property="og:image" content="http://www.apache.org/images/asf_logo.gif" />

  <link rel="stylesheet" type="text/css" media="screen" href="/css/style.css">
  <link rel="stylesheet" type="text/css" media="screen" href="/css/code.css">

  <script type="text/javascript" src="/js/jquery.js"></script>
  <script type="text/javascript" src="/js/apache_boot.js"></script>

```

```

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  on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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</head>

```

```

<body>
  <div id="page" class="container_16">
    <div id="header" class="grid_8">
      
      <h1>The Apache Software Foundation</h1>
      <h2>Apache License, Version 2.0</h2>
    </div>
    <div id="nav" class="grid_8">
      <ul>
        <!-- <li><a href="/" title="Welcome!">Home</a></li> -->
        <li><a href="/foundation/" title="The Foundation">Foundation</a></li>
        <li><a href="http://projects.apache.org" title="The Projects">Projects</a></li>
        <li><a href="http://people.apache.org" title="The People">People</a></li>
        <li><a href="/foundation/getinvolved.html" title="Get Involved">Get Involved</a></li>
        <li><a href="/dyn/closer.cgi" title="Download">Download</a></li>
        <li><a href="/foundation/sponsorship.html" title="Support Apache">Support Apache</a></li>
      </ul>
      <p><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;<a href="/licenses/">Licenses</a></p>
      <form name="search" id="search" action="http://www.google.com/search" method="get">
        <input value="apache.org" name="sitesearch" type="hidden"/>
        <input type="text" name="q" id="query">
        <input type="submit" id="submit" value="Search">
      </form>
    </div>
  </div>

```

<div class="clear"></div>  
<div id="content" class="grid\_16"><div class="section-content"><p>Apache License<br><br>Version 2.0,  
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</li>

</ol>

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</pre></div></div></div>

<div class="clear"></div>

</div>

<div id="footer" class="container\_16">

<div class="links grid\_16">

<div class="grid\_3">

<h4>Projects</h4>

<ul>

<li><a href="http://httpd.apache.org/" title="Apache Web Server (httpd)">HTTP Server</a></li>

<li><a href="http://abdera.apache.org/" title="Atom Publishing Protocol Implementation">Abdera</a></li>

<li><a href="http://accumulo.apache.org/" title="Sorted, distributed key/value store">Accumulo</a></li>

<li><a href="http://ace.apache.org/" title="Centralized life cycle management and deployment of OSGi based and related modular software artifacts for distribution.">ACE</a></li>

<li><a href="http://activemq.apache.org/" title="Distributed Messaging System">ActiveMQ</a></li>

<li><a href="http://airavata.apache.org/" title="Workflow and Computational Job Management

Middleware">Airavata</a></li>

<li><a href="http://allura.apache.org/" title="Forge software for hosting software projects">Allura</a></li>

<li><a href="http://ambari.apache.org/" title="Hadoop cluster management">Ambari</a></li>

<li><a href="http://ant.apache.org/" title="Java-based build tool">Ant</a></li>

<li><a href="http://any23.apache.org/" title="Anything to Triples">Any23</a></li>

<li><a href="http://apr.apache.org/" title="Apache Portable Runtime libraries">APR</a></li>

<li><a href="http://archiva.apache.org/" title="Build Artifact Repository Manager">Archiva</a></li>

<li><a href="http://aries.apache.org/" title="Enterprise OSGi application programming model">Aries</a></li>

<li><a href="http://avro.apache.org/" title="A Serialization System">Avro</a></li>

<li><a href="http://axis.apache.org/" title="Java SOAP Engine">Axis</a></li>

<li><a href="http://bigtop.apache.org/" title="Apache Hadoop ecosystem integration and distribution project">Bigtop</a></li>

<li><a href="http://bloodhound.apache.org/" title="Issue tracking, wiki and repository browser">Bloodhound</a></li>

<li><a href="http://buildr.apache.org/" title="Simple and intuitive build system for Java applications">Buildr</a></li>

<li><a href="http://bval.apache.org/" title="Apache BVal: JSR-303 Bean Validation Implementation and Extensions">BVal</a></li>

<li><a href="http://camel.apache.org/" title="Spring based Integration Framework which implements the Enterprise Integration Patterns">Camel</a></li>

<li><a href="http://cassandra.apache.org/" title="Highly scalable second-generation distributed database">Cassandra</a></li>

<li><a href="http://cayenne.apache.org/" title="User-friendly Java ORM with Tools">Cayenne</a></li>

<li><a href="http://chemistry.apache.org/" title="CMIS (Content Management Interoperability Services) Clients and Servers">Chemistry</a></li>

<li><a href="http://chukwa.apache.org/" title="Open source data collection system for monitoring large distributed systems.">Chukwa</a></li>

<li><a href="http://clerezza.apache.org/" title="Semantically linked data for OSGi">Clerezza</a></li>

<li><a href="http://cloudstack.apache.org/" title="Infrastructure as a Service solution">CloudStack</a></li>

<li><a href="http://cocoon.apache.org/" title="Web development framework: separation of concerns, component-based">Cocoon</a></li>

<li><a href="http://commons.apache.org/" title="Reusable Java components">Commons</a></li>

<li><a href="http://continuum.apache.org/" title="Continuous Integration and Build Server">Continuum</a></li>

<li><a href="http://cordova.apache.org/" title="Platform for building native mobile applications using HTML, CSS and JavaScript">Cordova</a></li>

<li><a href="http://couchdb.apache.org/" title="RESTful document database">CouchDB</a></li>

<li><a href="http://creadur.apache.org/" title="Comprehension and auditing of software distributions">Creadur</a></li>

<li><a href="http://crunch.apache.org/" title="Simple and Efficient MapReduce Pipelines">Crunch</a></li>

<li><a href="http://ctakes.apache.org/" title="Natural language processing (NLP) tool for information extraction from electronic medical record clinical free-text">cTAKES</a></li>

<li><a href="http://curator.apache.org/" title="Java libraries that make using Apache ZooKeeper easier">Curator</a></li>

<li><a href="http://cxf.apache.org/" title="Service Framework">CXF</a></li>

<li><a href="http://db.apache.org/" title="Database access">DB</a></li>

<li><a href="http://deltacloud.apache.org/" title="RESTful cloud management interface">Deltacloud</a></li>

<li><a href="http://deltaspike.apache.org/" title="Portable CDI extensions that provide useful features for Java application developers">DeltaSpike</a></li>

- <li><a href="http://directmemory.apache.org/" title="An off-heap cache for the Java Virtual Machine">DirectMemory</a></li>
- <li><a href="http://directory.apache.org/" title="Apache Directory Server">Directory</a></li>
- <li><a href="http://empire-db.apache.org/" title="Relational Data Persistence">Empire-db</a></li>
- <li><a href="http://etch.apache.org/" title="Cross-platform, language- and transport-independent RPC-like messaging framework">Etch</a></li>
- <li><a href="http://felix.apache.org/" title="OSGi Framework and components.">Felix</a></li>
- <li><a href="http://flex.apache.org/" title="Application framework for expressive web applications that deploy to all major browsers, desktops and devices.">Flex</a></li>
- <li><a href="http://flume.apache.org/" title="A reliable service for efficiently collecting, aggregating, and moving large amounts of log data">Flume</a></li>
- <li><a href="http://forrest.apache.org/" title="Aggregated multi-channel documentation, separation of concerns">Forrest</a></li>
- <li><a href="http://geronimo.apache.org/" title="Java2, Enterprise Edition (J2EE) container">Geronimo</a></li>
- <li><a href="http://giraph.apache.org/" title="Iterative graph processing system built for high scalability">Giraph</a></li>
- <li><a href="http://gora.apache.org/" title="ORM framework for column stores such as Apache HBase and Apache Cassandra with a specific focus on Hadoop">Gora</a></li>
- <li><a href="http://gump.apache.org/" title="Continuous integration of open source projects">Gump</a></li>
- <li><a href="http://hadoop.apache.org/" title="Distributed computing platform">Hadoop</a></li>
- <li><a href="http://hama.apache.org/" title="a Bulk Synchronous Parallel computing framework on top of Hadoop">Hama</a></li>
- <li><a href="http://hbase.apache.org/" title="Hadoop Database">HBase</a></li>
- <li><a href="http://helix.apache.org/" title="A cluster management framework for partitioned and replicated distributed resources">Helix</a></li>
- <li><a href="http://hive.apache.org/" title="Data warehouse infrastructure using the Hadoop Database">Hive</a></li>
- <li><a href="http://hc.apache.org/" title="Java toolset of low level HTTP components">HttpComponents</a></li>
- <li><a href="http://isis.apache.org/" title="Framework for rapidly developing domain-driven apps in Java">Isis</a></li>
- <li><a href="http://jackrabbit.apache.org/" title="Content Repository for Java">Jackrabbit</a></li>
- <li><a href="http://james.apache.org/" title="Java Apache Mail Enterprise Server">James</a></li>
- <li><a href="http://jclouds.apache.org/" title="Java cloud APIs and abstractions">jclouds</a></li>
- <li><a href="http://jena.apache.org/" title="Java framework for building Semantic Web applications">Jena</a></li>
- <li><a href="http://jmeter.apache.org/" title="Java performance and functional testing">JMeter</a></li>
- <li><a href="http://jspwiki.apache.org/" title="Leading open source WikiWiki engine, feature-rich and built around standard J2EE components (Java, servlets, JSP). ">JSPWiki</a></li>
- <li><a href="http://juddi.apache.org/" title="Java implementation of the Universal Description, Discovery, and Integration specification">jUDDI</a></li>
- <li><a href="http://kafka.apache.org/" title="Distributed publish-subscribe messaging system">Kafka</a></li>
- <li><a href="http://karaf.apache.org/" title="Server-side OSGi distribution">Karaf</a></li>
- <li><a href="http://knox.apache.org/" title="Simplify and normalize the deployment and implementation of secure Hadoop clusters">Knox</a></li>
- <li><a href="http://lenya.apache.org/" title="Content Management System">Lenya</a></li>
- <li><a href="http://libcloud.apache.org/" title="Unified interface to the cloud">Libcloud</a></li>
- <li><a href="http://logging.apache.org/" title="Cross-language logging services">Logging</a></li>
- <li><a href="http://lucene.apache.org/" title="Search engine library">Lucene</a></li>

- <li><a href="http://lucene.apache.org/" title="Search engine library targeted at .NET runtime users.">Lucene.Net</a></li>
- <li><a href="http://lucy.apache.org/" title="Search engine library for dynamic languages">Lucy</a></li>
- <li><a href="http://mahout.apache.org/" title="Scalable machine learning library">Mahout</a></li>
- <li><a href="http://manifoldcf.apache.org/" title="Framework for connecting source content repositories to target repositories or indexes.">ManifoldCF</a></li>
- <li><a href="http://marmotta.apache.org/" title="An Open Platform for Linked Data">Marmotta</a></li>
- <li><a href="http://maven.apache.org/" title="Java project management and comprehension tools">Maven</a></li>
- <li><a href="http://mesos.apache.org/" title="a cluster manager that provides efficient resource isolation and sharing across distributed applications">Mesos</a></li>
- <li><a href="http://mina.apache.org/" title="Multipurpose Infrastructure for Network Application">MINA</a></li>
- <li><a href="http://mrunit.apache.org/" title="Java library that helps developers unit test Apache Hadoop map reduce jobs">MRUnit</a></li>
- <li><a href="http://myfaces.apache.org/" title="JavaServer(tm) Faces implementation and components">MyFaces</a></li>
- <li><a href="http://nutch.apache.org/" title="Open Source Web Search Software">Nutch</a></li>
- <li><a href="http://ode.apache.org/" title="Orchestration Director Engine: Business Process Management (BPM), Process Orchestration and Workflow through service composition.">ODE</a></li>
- <li><a href="http://ofbiz.apache.org/" title="Open for Business: enterprise automation software">OFBiz</a></li>
- <li><a href="http://olingo.apache.org/" title="OASIS OData protocol libraries">Olingo</a></li>
- <li><a href="http://oltu.apache.org/" title="OAuth protocol implementation in Java">Oltu</a></li>
- <li><a href="http://onami.apache.org/" title="Development and maintenance of a set of Google Guice extensions">Onami</a></li>
- <li><a href="http://oodt.apache.org/" title="Object Oriented Data Technology (middleware metadata)">OODT</a></li>
- <li><a href="http://oozie.apache.org/" title="A workflow scheduler system to manage Apache Hadoop jobs.">Oozie</a></li>
- <li><a href="http://climate.apache.org/" title="Climate model evaluation">Open Climate Workbench</a></li>
- <li><a href="http://openjpa.apache.org/" title="OpenJPA: Object Relational Mapping for Java">OpenJPA</a></li>
- <li><a href="http://openmeetings.apache.org/" title="OpenMeetings: Web-Conferencing and real-time collaboration">OpenMeetings</a></li>
- <li><a href="http://opennlp.apache.org/" title="Machine learning based toolkit for the processing of natural language text">OpenNLP</a></li>
- <li><a href="http://openoffice.apache.org/" title="An open-source, office-document productivity suite">OpenOffice</a></li>
- <li><a href="http://openwebbeans.apache.org/" title="OpenWebBeans: JSR-299 Context and Dependency Injection for Java EE Platform Implementation">OpenWebBeans</a></li>
- <li><a href="http://pdfbox.apache.org/" title="Java library for working with PDF documents">PDFBox</a></li>
- <li><a href="http://perl.apache.org/" title="Dynamic websites using Perl">Perl</a></li>
- <li><a href="http://pig.apache.org/" title="Platform for analyzing large data sets">Pig</a></li>
- <li><a href="http://pivot.apache.org/" title="Rich Internet applications in Java">Pivot</a></li>
- <li><a href="http://poi.apache.org/" title="Java API for OLE 2 Compound and OOXML Documents">POI</a></li>
- <li><a href="http://portals.apache.org/" title="Portal technology">Portals</a></li>
- <li><a href="http://qpuid.apache.org/" title="Multiple language implementation of the latest Advanced Message Queuing Protocol (AMQP)">Qpid</a></li>
- <li><a href="http://rave.apache.org/" title="Web and social mashup engine">Rave</a></li>
- <li><a href="http://river.apache.org/" title="Jini service oriented architecture">River</a></li>
- <li><a href="http://roller.apache.org/" title="Java blog server">Roller</a></li>



- <li><a href="http://santuario.apache.org/" title="XML Security in Java and C++">Santuario</a></li>
- <li><a href="http://servicemix.apache.org/" title="Enterprise Service Bus">ServiceMix</a></li>
- <li><a href="http://shindig.apache.org/" title="Opensocial Reference Implementation">Shindig</a></li>
- <li><a href="http://shiro.apache.org/" title="Powerful and easy-to-use application security framework">Shiro</a></li>
- <li><a href="http://sis.apache.org/" title="Spatial Information System">SIS</a></li>
- <li><a href="http://sling.apache.org/" title="Web Framework for JCR Content Repositories">Sling</a></li>
- <li><a href="http://spamassassin.apache.org/" title="Mail filter to identify spam">SpamAssassin</a></li>
- <li><a href="http://spark.apache.org/" title="Fast and general engine for large-scale data processing">Spark</a></li>
- <li><a href="http://sqoop.apache.org/" title="Bulk Data Transfer for Hadoop and Structured Datastores">Sqoop</a></li>
- <li><a href="http://stanbol.apache.org/" title="Reusable components for semantic content management">Stanbol</a></li>
- <li><a href="http://steve.apache.org/" title="Apache's Python based single transferable vote software system">STeVe</a></li>
- <li><a href="http://storm.apache.org/" title="Distributed, real-time computation system">Storm</a></li>
- <li><a href="http://struts.apache.org/" title="Model 2 framework for building Java web applications">Struts</a></li>
- <li><a href="http://subversion.apache.org/" title="Version Control">Subversion</a></li>
- <li><a href="http://synapse.apache.org/" title="Enterprise Service Bus and Mediation Framework">Synapse</a></li>
- <li><a href="http://syncope.apache.org/" title="Managing digital identities in enterprise environments">Syncope</a></li>
- <li><a href="http://tajo.apache.org/" title="Big data warehouse system on Hadoop">Tajo</a></li>
- <li><a href="http://tapestry.apache.org/" title="Component-based Java Web Application Framework">Tapestry</a></li>
- <li><a href="http://tcl.apache.org/" title="Dynamic websites using TCL">Tcl</a></li>
- <li><a href="http://tez.apache.org/" title="High-performance and scalable distributed data processing framework">Tez</a></li>
- <li><a href="http://thrift.apache.org/" title="Framework for scalable cross-language services development">Thrift</a></li>
- <li><a href="http://tika.apache.org" title="Content Analysis and Detection Toolkit">Tika</a></li>
- <li><a href="http://tiles.apache.org/" title="A templating framework for web application user interfaces">Tiles</a></li>
- <li><a href="http://tomcat.apache.org/" title="A Java Servlet and JSP Container">Tomcat</a></li>
- <li><a href="http://tomee.apache.org/" title="Java EE Web Profile built on Tomcat">TomEE</a></li>
- <li><a href="http://trafficserver.apache.org/" title="A fast, scalable and extensible HTTP/1.1 compliant caching proxy server">Traffic Server</a></li>
- <li><a href="http://turbine.apache.org/" title="A Java Servlet Web Application Framework and associated component library">Turbine</a></li>
- <li><a href="http://tuscanys.apache.org/" title="An SCA based Service Composition Framework">Tuscany</a></li>
- <li><a href="http://uima.apache.org/" title="Framework and annotators for unstructured information analysis">UIMA</a></li>
- <li><a href="http://vcl.apache.org/" title="Virtual Computing Lab">VCL</a></li>
- <li><a href="http://velocity.apache.org/" title="A Java Templating Engine">Velocity</a></li>
- <li><a href="http://vxquery.apache.org/" title="A parallel XQuery processor">VXQuery</a></li>
- <li><a href="http://ws.apache.org/" title="Projects related to Web Services">Web Services</a></li>

- [Whirr](http://whirr.apache.org/ "Libraries for running Cloud Services")
- [Wicket](http://wicket.apache.org/ "Component-based Java Web Application Framework.")
- [Wink](http://wink.apache.org/ "RESTful Web services Framework")
- [Wookie](http://wookie.apache.org/ "Widgets for Applications")
- [Xalan](http://xalan.apache.org/ "XSLT processors in Java and C++")
- [Xerces](http://xerces.apache.org/ "XML parsers in Java, C++ and Perl")
- [XMLBeans](http://xmlbeans.apache.org/ "XML-Java binding tool")
- [XML Graphics](http://xmlgraphics.apache.org/ "Conversion from XML to graphical output")
- [ZooKeeper](http://zookeeper.apache.org/ "Centralized service for maintaining configuration information")

</div>

<div class="grid\_3">

<h4>Foundation</h4>

<ul>

<li><a href="/foundation/faq.html">FAQ</a></li>

<li><a href="/foundation/glossary.html">Glossary</a></li>

<li><a href="/licenses/" title="Overview of the Apache Licenses">Licenses</a></li>

<li><a href="/foundation/marks/" title="Apache marks policies and listing">Trademarks</a></li>

<li><a href="/foundation/news.html" title="Official news feed of Foundation announcements">News</a></li>

<li><a href="/press/" title="Press, Media, and Analyst contact">Press Inquiries</a></li>

<li><a href="/foundation/records/" title="Formal corporate records and board meeting minutes">Public Records</a></li>

<li><a href="/foundation/maillinglists.html" title="Mailing lists and Apache">Mailing Lists</a></li>

<li><a href="/foundation/sponsorship.html" title="Sponsor the Foundation">Sponsorship</a></li>

<li><a href="/foundation/contributing.html" title="Donate to the Foundation">Donations</a></li>

<li><a href="/foundation/buy\_stuff.html" title="Buy Apache branded merchandise">Buy Stuff</a></li>

<li><a href="/foundation/thanks.html" title="Thank you to our Sponsors">Thanks</a></li>

<li><a href="/foundation/contact.html" title="Contact Us">Contact</a></li>

</ul>

</div>

<div class="grid\_3 suffix\_1">

<h4>Foundation Projects</h4>

<ul>

<li><a href="http://attic.apache.org/" title="Inactive projects repository">Attic</a></li>

<li><a href="/foundation/conferences.html" title="Meetings of developers and users">Conferences</a></li>

<li><a href="http://community.apache.org/" title="Helping newcomers to the ASF">Community Development</a></li>

<li><a href="http://incubator.apache.org/" title="Shepherd for new projects">Incubator</a></li>

<li><a href="/dev/" title="ASF Infrastructure: Operations and howto documents for PMCs and contributors">Infrastructure</a></li>

<li><a href="http://labs.apache.org/" title="The Innovation Laboratories of the Apache Software Foundation">Labs</a></li>

<li><a href="/legal/" title="Legal Affairs">Legal Affairs</a></li>

<li><a href="/press/" title="Public Relations">Public Relations</a></li>

```

    <li><a href="/security/" title="Security">Security</a></li>
    <li><a href="/travel/" title="Travel Assistance">Travel Assistance</a></li>
</ul>
</div>

<div class="grid_3">
  <h4>Community</h4>
  <ul>
    <li><a href="http://people.apache.org/" title="Apache committer homepages">People</a></li>
    <li><a href="/memorials/" title="In memoriam of past committers">Memorials</a></li>
    <li><a href="http://feathercast.apache.org/" title="Apache Podcasts">Feathercast</a></li>
    <li><a href="http://blogs.apache.org/" title="Apache Project Blogs">Project Blogs</a></li>
    <li><a href="http://planet.apache.org/committers/" title="Apache Committers' Blogs">PlanetApache</a></li>

  </ul>
</div>
<div class="grid_3">
  <h4>How It Works</h4>
  <ul>
    <li><a href="/foundation/how-it-works.html">Introduction</a></li>
    <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
    <li><a href="/foundation/how-it-works.html#structure">Structure</a></li>
    <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
    <li><a href="/foundation/how-it-works.html#management">Collaboration</a></li>
    <li><a href="/foundation/how-it-works.html#incubator">Incubator</a></li>
    <li><a href="/foundation/how-it-works.html#other">Other entities</a></li>
    <li><a href="/foundation/glossary.html">Glossary</a></li>
    <li><a href="/foundation/voting.html">Voting</a></li>
  </ul>
</div>
</div>
<div class="clear"></div>

</div>
<div id="copyright" class="container_16">
  <p>Copyright &#169; 2012 The Apache Software Foundation, Licensed under the <a
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.<br/>Apache and the
Apache feather logo are trademarks of The Apache Software Foundation.</p>
  </div>
</body>
</html>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML+RDFa 1.0//EN"
"http://www.w3.org/MarkUp/DTD/xhtml-rdfa-1.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" version="XHTML+RDFa 1.0" dir="ltr">

<head profile="http://www.w3.org/1999/xhtml/vocab">
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <link rel="shortcut icon" href="http://opensource.org/files/garland_favicon.png" type="image/png" />

```

```

<link rel="shortlink" href="/node/66" />
<link rel="canonical" href="/licenses/MIT" />
<meta name="Generator" content="Drupal 7 (http://drupal.org)" />
<title>The MIT License (MIT) | Open Source Initiative</title>
<link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_xE-rWrJf-
fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
<link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_2ATB4XKGEvmoUk_p62PwI-
o2aW47EqqS0nD2dmPZoV4.css" media="all" />
<link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_2wI77kyP-
rJKVpFW5M3KFcj7Cb99lZalmubKIwWwsmU.css" media="all" />
<link type="text/css" rel="stylesheet"
href="http://opensource.org/files/css/css_k3snrbsthqot7V7ccRZHS9OkCZkwBv4adtNieIVlbeEU.css" media="print"
/>

```

```

<!--[if lt IE 7]>

```

```

<link type="text/css" rel="stylesheet" href="http://opensource.org/themes/garland/fix-ie.css?nfb7pm" media="all"
/>

```

```

<![endif]-->

```

```

<script type="text/javascript"

```

```

src="http://opensource.org/files/js/js_xAPI0qIk9eowy_is9tNkCWXLUVoat94SQT48UBCFkyQ.js"></script>

```

```

<script type="text/javascript">

```

```

<!--/--><![CDATA[//><!--

```

```

jQuery.extend(Drupal.settings,

```

```

{"basePath":"/","pathPrefix":"","ajaxPageState":{"theme":"garland","theme_token":"meUjjBBfr6QFJv5kp0oKi152
l673C3xJMLGIQzbH9g0"},"js":{"misc/jquery.js":1,"misc/jquery.once.js":1,"misc/drupal.js":1},"css":{"modules/s
ystem/system.base.css":1,"modules/system/system.menus.css":1,"modules/system/system.messages.css":1,"mod
ules/system/system.theme.css":1,"modules/aggregator/aggregator.css":1,"modules/comment/comment.css":1,"m
odules/field/theme/field.css":1,"sites/all/modules/mollom/mollom.css":1,"modules/node/node.css":1,"modules
/search/search.css":1,"modules/user/user.css":1,"themes/garland/style.css":1,"themes/garland/print.css":1,"the
mes/garland/fix-ie.css":1}}});

```

```

//--><![>

```

```

</script>

```

```

</head>

```

```

<body class="html not-front not-logged-in one-sidebar sidebar-first page-node page-node- page-node-66 node-type-
page fluid-width" >

```

```

<div id="skip-link">

```

```

<a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>

```

```

</div>

```

```

<div id="wrapper">

```

```

<div id="container" class="clearfix">

```

```

<div id="header">

```

```

<div id="logo-floater">

```

```

<div id="branding"><strong><a href="/">

```

```



```

```

<span>Open Source Initiative</span> </a></strong></div>

```

```

</div>

</div> <!-- /#header -->

<div id="sidebar-first" class="sidebar">
<div class="region region-sidebar-first">
<div id="block-search-form" class="block block-search clearfix">

<h2 class="title">Search this site:</h2>

<div class="content">
<form action="/licenses/mit-license.php" method="post" id="search-block-form" accept-charset="UTF-8"><div><div class="container-inline">
<div class="form-item form-type-textfield form-item-search-block-form">
<label class="element-invisible" for="edit-search-block-form--2">Search </label>
<input title="Enter the terms you wish to search for." type="text" id="edit-search-block-form--2" name="search_block_form" value="" size="15" maxlength="128" class="form-text" />
</div>
<div class="form-actions form-wrapper" id="edit-actions"><input type="submit" id="edit-submit" name="op" value="Search" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-MyBqFtDVdzOmaSnCHKIG9yhm0ofMr7fNMG5Vy76N_uk" />
<input type="hidden" name="form_id" value="search_block_form" />
</div>
</div></form> </div>
</div>
<div id="block-system-navigation" class="block block-system block-menu clearfix">

<h2 class="title">Navigation</h2>

<div class="content">
<ul class="menu"><li class="first collapsed"><a href="/about" title="About the Open Source Initiative">About the OSI</a></li>
<li class="collapsed"><a href="/osd" title="The actual OSD defining what constitutes an Open Source licence">The Open Source Definition</a></li>
<li class="collapsed"><a href="/licenses">Open Source Licenses</a></li>
<li class="leaf"><a href="/working_groups">Working Groups</a></li>
<li class="leaf"><a href="/faq" title="Frequently Asked Questions about open source and about the OSI.">FAQ</a></li>
<li class="collapsed"><a href="/trademark" title="Information about trademark and logo usage">Trademark and Logo Usage</a></li>
<li class="collapsed"><a href="/osr-intro" title="Open Standards Requirement for Software">Open Standards</a></li>
<li class="leaf"><a href="/osi-open-source-education" title="OSI's Open Source Education Initiative and Activities">Open Source Education</a></li>
<li class="collapsed"><a href="/lists" title="The virtual committees where the OSI's work gets done">Mailing lists</a></li>
<li class="collapsed"><a href="/help" title="Resources for questions and further exploration">Getting Help</a></li>

```

```

<li class="collapsed"><a href="http://opensource.org/donate" title="">Donate to the OSI</a></li>
<li class="leaf"><a href="/members">OSI Individual Membership</a></li>
<li class="leaf"><a href="/store">OSI Store</a></li>
<li class="collapsed"><a href="/affiliates" title="Home page for OSI's membership scheme for non-profits
and not-for-profits">OSI Affiliate Membership</a></li>
<li class="leaf"><a href="/contact" title="">Contact OSI</a></li>
<li class="leaf"><a href="/ToS" title="Rules for posting content on this site">Terms of Service</a></li>
<li class="last leaf"><a href="/support">OSI Corporate Support</a></li>
</ul> </div>
</div>
</div>
</div>

```

```

<div id="center"><div id="squeeze"><div class="right-corner"><div class="left-corner">
  <h2 class="element-invisible">You are here</h2><div class="breadcrumb"><a href="/">Home</a></div>
  <a id="main-content"></a>
  <div id="tabs-wrapper" class="clearfix">
    <h1 class="with-tabs">The MIT License
(MIT)</h1>
    </div>
    <div class="region region-content">
<div id="block-system-main" class="block block-system clearfix">

```

```

<div class="content">
<div id="node-66" class="node node-page">

```

```

<div class="content clearfix">
  
  <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><p>The MIT License (MIT)</p>
<p>Copyright (c) <year> <copyright holders></p>
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OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN<br />  
THE SOFTWARE.</p>  
</div></div></div> </div>

<div class="clearfix">  
    <div class="links"></div>

</div>

</div>

</div>

</div>

</div>

</div>

<div class="region region-footer">

<div id="block-block-11" class="block block-block clearfix">

<div class="content">

<p style="text-align:center">Help shape the future of the Open Source Initiative...<br /><a  
href="http://osi.xwiki.com">visit and participate in the OSI wiki</a>.  
</p>

<div>

<a href="https://twitter.com/OpenSourceOrg" class="twitter-follow-button" data-show-count="false" data-  
lang="en">Follow @OpenSourceOrg</a>

<script>

<!--/--><![CDATA[// ><!--

!function(d,s,id){var

js,fjs=d.getElementsByTagName(s)[0];if(!d.getElementById(id)){js=d.createElement(s);js.id=id;js.src="//platform.t  
witter.com/widgets.js";fjs.parentNode.insertBefore(js,fjs);}(document,"script","twitter-wjs");

//--><![>

</script></div>

<p>

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href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0 International  
License</a>.<!-- /Creative Commons License -->

<!-- <rdf:RDF xmlns="http://web.resource.org/cc/" xmlns:dc="http://purl.org/dc/elements/1.1/"

xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">

<Work rdf:about="">

<license rdf:resource="http://creativecommons.org/licenses/by/3.0/" />

</Work>

<License rdf:about="http://creativecommons.org/licenses/by/3.0/"><permits

```
rdf:resource="http://web.resource.org/cc/Reproduction"/><permits
rdf:resource="http://web.resource.org/cc/Distribution"/><requires
rdf:resource="http://web.resource.org/cc/Notice"/><requires
rdf:resource="http://web.resource.org/cc/Attribution"/><permits
rdf:resource="http://web.resource.org/cc/DerivativeWorks"/></License></rdf:RDF>
-->
```

```
| <a href=" ../ToS">Terms of Service</a>
```

```
</p>
</div>
</div>
<div id="block-block-7" class="block block-block clearfix">
```

```
<div class="content">
  <script src="http://www.google-analytics.com/urchin.js" type="text/javascript">
<!--/--><![CDATA[// ><!--
```

```
//--><!]]>
</script><script type="text/javascript">
<!--/--><![CDATA[// ><!--
```

```
_uacct = "UA-3916956-1";
urchinTracker();
```

```
//--><!]]>
</script> </div>
</div>
</div>
  </div></div></div></div> <!-- /.left-corner, /.right-corner, /#squeeze, /#center -->
```

```
</div> <!-- /#container -->
</div> <!-- /#wrapper -->
</body>
</html>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
<head>
  <meta http-equiv="content-type"
content="text/html; charset=ISO-8859-1">
  <title>CDDL ver. 1.0</title>
  <meta name="author" content="Cliff Allen">
</head>
<body>
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</body>

</html>

<!DOCTYPE html>

<html>

<head>

<title>jsoup License</title>

<meta name="keywords" content="license, open source, mit">

<meta name="description" content="jsoup is licensed under the MIT open source license">

<link type="text/css" rel="stylesheet" href="/rez/style.css">

<script type="text/javascript">

var \_gaq = \_gaq || [];

\_gaq.push(['\_setAccount', 'UA-89734-10']);

\_gaq.push(['\_setDomainName', 'jsoup.org']);

\_gaq.push(['\_trackPageview']);

(function() {

var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;

ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';

var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);

})();

</script>

</head>

<body class="n1">

<div class="wrap">

<div class="header">

<div class="nav-sections">

<ul>

<li class="n1-home"><h4><a href="/">jsoup</a></h4></li>

<li class="n1-news"><a href="/news/">News</a></li>

<li class="n1-bugs"><a href="/bugs">Bugs</a></li>

<li class="n1-discussion"><a href="/discussion">Discussion</a></li>

<li class="n1-download"><a href="/download">Download</a></li>

<li class="n1-api"><a href="/apidocs/">API Reference</a></li>

<li class="n1-cookbook"><a href="/cookbook/">Cookbook</a></li>

<li class="n1-try"><a href="http://try.jsoup.org/">Try jsoup</a></li>

</ul>

</div>

</div>

```
<div class="breadcrumb">
  <a href="/">jsoup</a>
  <span class="seperator">&raquo;</span> jsoup License
</div>
<div class="content">
  <div class="col1">
    <h1>jsoup License</h1>
    <p>The jsoup code-base (include source and compiled packages) are distributed under the open source MIT
license as described below.</p>
    <h3>The MIT License</h3>
    <p>Copyright &copy; 2009 - 2014 <a href="http://jonathanhedley.com">Jonathan Hedley</a> (<a
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    <p>Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated
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AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.</p>
  </div>
<!-- /col1 -->
<div class="col2">
</div>
<!-- /col2 -->
</div>
<!-- /content-->
<div class="footer">
  <b>jsoup HTML parser</b> &copy; 2009 - 2014
  <a href="http://jhy.io/" rel="author"><b>Jonathan Hedley</b></a>
</div>
</div>
<!-- /wrap -->
<script src="/rez/prettify.js"></script>
<script>prettyPrint();</script>
</body>
</html>
```

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```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">

<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
  size: 8.5in 11.0in;
  margin: 0.25in 0.5in 0.25in 0.5in;
  tab-interval: 0.5in;
}
p {
  margin-left: auto;
  margin-top: 0.5em;
  margin-bottom: 0.5em;
}
p.list {
  margin-left: 0.5in;
  margin-top: 0.05em;
  margin-bottom: 0.05em;
}
</style>

</head>

<body lang="EN-US">

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</body>

</html>

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">

<html lang="en">

<head>

<title>Apache License, Version 2.0</title>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<meta property="og:image" content="http://www.apache.org/images/asf\_logo.gif" />

<link rel="stylesheet" type="text/css" media="screen" href="/css/style.css">

<link rel="stylesheet" type="text/css" media="screen" href="/css/code.css">

<script type="text/javascript" src="/js/jquery.js"></script>

<script type="text/javascript" src="/js/apache\_boot.js"></script>





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```
<div class="codehilite"><pre>Copyright [yyyy] [name of copyright owner]
```

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```
</pre></div></div></div>
```

```
<div class="clear"></div>
```

```
</div>
```

```
<div id="footer" class="container_16">
```

```
<div class="links grid_16">
```

```
<div class="grid_3">
```

```
<h4>Projects</h4>
```

```
<ul>
```

```
<li><a href="http://httpd.apache.org/" title="Apache Web Server (httpd)">HTTP Server</a></li>
```

```
<li><a href="http://abdera.apache.org/" title="Atom Publishing Protocol Implementation">Abdera</a></li>
```

```
<li><a href="http://accumulo.apache.org/" title="Sorted, distributed key/value store">Accumulo</a></li>
```

```
<li><a href="http://ace.apache.org/" title="Centralized life cycle management and deployment of OSGi based and related modular software artifacts for distribution.">ACE</a></li>
```

```
<li><a href="http://activemq.apache.org/" title="Distributed Messaging System">ActiveMQ</a></li>
```

```
<li><a href="http://airavata.apache.org/" title="Workflow and Computational Job Management Middleware">Airavata</a></li>
```

```
<li><a href="http://allura.apache.org/" title="Forge software for hosting software projects">Allura</a></li>
```

```
<li><a href="http://ambari.apache.org/" title="Hadoop cluster management">Ambari</a></li>
```

```
<li><a href="http://ant.apache.org/" title="Java-based build tool">Ant</a></li>
```

```
<li><a href="http://any23.apache.org/" title="Anything to Triples">Any23</a></li>
```

```
<li><a href="http://apr.apache.org/" title="Apache Portable Runtime libraries">APR</a></li>
```

```
<li><a href="http://archiva.apache.org/" title="Build Artifact Repository Manager">Archiva</a></li>
```

```
<li><a href="http://aries.apache.org/" title="Enterprise OSGi application programming model">Aries</a></li>
```

```
<li><a href="http://avro.apache.org/" title="A Serialization System">Avro</a></li>
```

```
<li><a href="http://axis.apache.org/" title="Java SOAP Engine">Axis</a></li>
```

```
<li><a href="http://bigtop.apache.org/" title="Apache Hadoop ecosystem integration and distribution project">Bigtop</a></li>
```

```
<li><a href="http://bloodhound.apache.org/" title="Issue tracking, wiki and repository browser">Bloodhound</a></li>
```

- <li><a href="http://buildr.apache.org/" title="Simple and intuitive build system for Java applications">Buildr</a></li>
- <li><a href="http://bval.apache.org/" title="Apache BVal: JSR-303 Bean Validation Implementation and Extensions">BVal</a></li>
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- <li><a href="http://chemistry.apache.org/" title="CMIS (Content Management Interoperability Services) Clients and Servers">Chemistry</a></li>
- <li><a href="http://chukwa.apache.org/" title="Open source data collection system for monitoring large distributed systems.">Chukwa</a></li>
- <li><a href="http://clerezza.apache.org/" title="Semantically linked data for OSGi">Clerezza</a></li>
- <li><a href="http://cloudstack.apache.org/" title="Infrastructure as a Service solution">CloudStack</a></li>
- <li><a href="http://cocoon.apache.org/" title="Web development framework: separation of concerns, component-based">Cocoon</a></li>
- <li><a href="http://commons.apache.org/" title="Reusable Java components">Commons</a></li>
- <li><a href="http://continuum.apache.org/" title="Continuous Integration and Build Server">Continuum</a></li>
- <li><a href="http://cordova.apache.org/" title="Platform for building native mobile applications using HTML, CSS and JavaScript">Cordova</a></li>
- <li><a href="http://couchdb.apache.org/" title="RESTful document database">CouchDB</a></li>
- <li><a href="http://creadur.apache.org/" title="Comprehension and auditing of software distributions">Creadur</a></li>
- <li><a href="http://crunch.apache.org/" title="Simple and Efficient MapReduce Pipelines">Crunch</a></li>
- <li><a href="http://ctakes.apache.org/" title="Natural language processing (NLP) tool for information extraction from electronic medical record clinical free-text">cTAKES</a></li>
- <li><a href="http://curator.apache.org/" title="Java libraries that make using Apache ZooKeeper easier">Curator</a></li>
- <li><a href="http://cxf.apache.org/" title="Service Framework">CXF</a></li>
- <li><a href="http://db.apache.org/" title="Database access">DB</a></li>
- <li><a href="http://deltacloud.apache.org/" title="RESTful cloud management interface">Deltacloud</a></li>
- <li><a href="http://deltaspike.apache.org/" title="Portable CDI extensions that provide useful features for Java application developers">DeltaSpike</a></li>
- <li><a href="http://directmemory.apache.org/" title="An off-heap cache for the Java Virtual Machine">DirectMemory</a></li>
- <li><a href="http://directory.apache.org/" title="Apache Directory Server">Directory</a></li>
- <li><a href="http://empire-db.apache.org/" title="Relational Data Persistence">Empire-db</a></li>
- <li><a href="http://etch.apache.org/" title="Cross-platform, language- and transport-independent RPC-like messaging framework">Etch</a></li>
- <li><a href="http://felix.apache.org/" title="OSGi Framework and components.">Felix</a></li>
- <li><a href="http://flex.apache.org/" title="Application framework for expressive web applications that deploy to all major browsers, desktops and devices.">Flex</a></li>
- <li><a href="http://flume.apache.org/" title="A reliable service for efficiently collecting, aggregating, and moving large amounts of log data">Flume</a></li>
- <li><a href="http://forrest.apache.org/" title="Aggregated multi-channel documentation, separation of concerns">Forrest</a></li>
- <li><a href="http://geronimo.apache.org/" title="Java2, Enterprise Edition (J2EE) container">Geronimo</a></li>

- <li><a href="http://giraph.apache.org/" title="Iterative graph processing system built for high scalability">Giraph</a></li>
- <li><a href="http://gora.apache.org/" title="ORM framework for column stores such as Apache HBase and Apache Cassandra with a specific focus on Hadoop">Gora</a></li>
- <li><a href="http://gump.apache.org/" title="Continuous integration of open source projects">Gump</a></li>
- <li><a href="http://hadoop.apache.org/" title="Distributed computing platform">Hadoop</a></li>
- <li><a href="http://hama.apache.org/" title="a Bulk Synchronous Parallel computing framework on top of Hadoop">Hama</a></li>
- <li><a href="http://hbase.apache.org/" title="Hadoop Database">HBase</a></li>
- <li><a href="http://helix.apache.org/" title="A cluster management framework for partitioned and replicated distributed resources">Helix</a></li>
- <li><a href="http://hive.apache.org/" title="Data warehouse infrastructure using the Hadoop Database">Hive</a></li>
- <li><a href="http://hc.apache.org/" title="Java toolset of low level HTTP components">HttpComponents</a></li>
- <li><a href="http://isis.apache.org/" title="Framework for rapidly developing domain-driven apps in Java">Isis</a></li>
- <li><a href="http://jackrabbit.apache.org/" title="Content Repository for Java">Jackrabbit</a></li>
- <li><a href="http://james.apache.org/" title="Java Apache Mail Enterprise Server">James</a></li>
- <li><a href="http://jclouds.apache.org/" title="Java cloud APIs and abstractions">jclouds</a></li>
- <li><a href="http://jena.apache.org/" title="Java framework for building Semantic Web applications">Jena</a></li>
- <li><a href="http://jmeter.apache.org/" title="Java performance and functional testing">JMeter</a></li>
- <li><a href="http://jspwiki.apache.org/" title="Leading open source WikiWiki engine, feature-rich and built around standard J2EE components (Java, servlets, JSP). ">JSPWiki</a></li>
- <li><a href="http://juddi.apache.org/" title="Java implementation of the Universal Description, Discovery, and Integration specification">jUDDI</a></li>
- <li><a href="http://kafka.apache.org/" title="Distributed publish-subscribe messaging system">Kafka</a></li>
- <li><a href="http://karaf.apache.org/" title="Server-side OSGi distribution">Karaf</a></li>
- <li><a href="http://knox.apache.org/" title="Simplify and normalize the deployment and implementation of secure Hadoop clusters">Knox</a></li>
- <li><a href="http://lenya.apache.org/" title="Content Management System">Lenya</a></li>
- <li><a href="http://libcloud.apache.org/" title="Unified interface to the cloud">Libcloud</a></li>
- <li><a href="http://logging.apache.org/" title="Cross-language logging services">Logging</a></li>
- <li><a href="http://lucene.apache.org/" title="Search engine library">Lucene</a></li>
- <li><a href="http://lucenenet.apache.org/" title="Search engine library targeted at .NET runtime users.">Lucene.Net</a></li>
- <li><a href="http://lucy.apache.org/" title="Search engine library for dynamic languages">Lucy</a></li>
- <li><a href="http://mahout.apache.org/" title="Scalable machine learning library">Mahout</a></li>
- <li><a href="http://manifoldcf.apache.org/" title="Framework for connecting source content repositories to target repositories or indexes.">ManifoldCF</a></li>
- <li><a href="http://marmotta.apache.org/" title="An Open Platform for Linked Data">Marmotta</a></li>
- <li><a href="http://maven.apache.org/" title="Java project management and comprehension tools">Maven</a></li>
- <li><a href="http://mesos.apache.org/" title="a cluster manager that provides efficient resource isolation and sharing across distributed applications">Mesos</a></li>
- <li><a href="http://mina.apache.org/" title="Multipurpose Infrastructure for Network Application">MINA</a></li>
- <li><a href="http://mrunit.apache.org/" title="Java library that helps developers unit test Apache Hadoop map reduce jobs">MRUnit</a></li>
- <li><a href="http://myfaces.apache.org/" title="JavaServer(tm) Faces implementation and

components">MyFaces</a></li>

<li><a href="http://nutch.apache.org/" title="Open Source Web Search Software">Nutch</a></li>

<li><a href="http://ode.apache.org/" title="Orchestration Director Engine: Business Process Management (BPM), Process Orchestration and Workflow through service composition.">ODE</a></li>

<li><a href="http://ofbiz.apache.org/" title="Open for Business: enterprise automation software">OFBiz</a></li>

<li><a href="http://olingo.apache.org/" title="OASIS OData protocol libraries">Olingo</a></li>

<li><a href="http://oltu.apache.org/" title="OAuth protocol implementation in Java">Oltu</a></li>

<li><a href="http://onami.apache.org/" title="Development and maintenance of a set of Google Guice extensions">Onami</a></li>

<li><a href="http://oodt.apache.org/" title="Object Oriented Data Technology (middleware metadata)">OODT</a></li>

<li><a href="http://oozie.apache.org/" title="A workflow scheduler system to manage Apache Hadoop jobs.">Oozie</a></li>

<li><a href="http://climate.apache.org/" title="Climate model evaluation">Open Climate Workbench</a></li>

<li><a href="http://openjpa.apache.org/" title="OpenJPA: Object Relational Mapping for Java">OpenJPA</a></li>

<li><a href="http://openmeetings.apache.org/" title="OpenMeetings: Web-Conferencing and real-time collaboration">OpenMeetings</a></li>

<li><a href="http://opennlp.apache.org/" title="Machine learning based toolkit for the processing of natural language text">OpenNLP</a></li>

<li><a href="http://openoffice.apache.org/" title="An open-source, office-document productivity suite">OpenOffice</a></li>

<li><a href="http://openwebbeans.apache.org/" title="OpenWebBeans: JSR-299 Context and Dependency Injection for Java EE Platform Implementation">OpenWebBeans</a></li>

<li><a href="http://pdfbox.apache.org/" title="Java library for working with PDF documents">PDFBox</a></li>

<li><a href="http://perl.apache.org/" title="Dynamic websites using Perl">Perl</a></li>

<li><a href="http://pig.apache.org/" title="Platform for analyzing large data sets">Pig</a></li>

<li><a href="http://pivot.apache.org/" title="Rich Internet applications in Java">Pivot</a></li>

<li><a href="http://poi.apache.org/" title="Java API for OLE 2 Compound and OOXML Documents">POI</a></li>

<li><a href="http://portals.apache.org/" title="Portal technology">Portals</a></li>

<li><a href="http://qpuid.apache.org/" title="Multiple language implementation of the latest Advanced Message Queuing Protocol (AMQP)">Qpid</a></li>

<li><a href="http://rave.apache.org/" title="Web and social mashup engine">Rave</a></li>

<li><a href="http://river.apache.org/" title="Jini service oriented architecture">River</a></li>

<li><a href="http://roller.apache.org/" title="Java blog server">Roller</a></li>

<li><a href="http://santuario.apache.org/" title="XML Security in Java and C++">Santuario</a></li>

<li><a href="http://servicemix.apache.org/" title="Enterprise Service Bus">ServiceMix</a></li>

<li><a href="http://shindig.apache.org/" title="Opensocial Reference Implementation">Shindig</a></li>

<li><a href="http://shiro.apache.org/" title="Powerful and easy-to-use application security framework">Shiro</a></li>

<li><a href="http://sis.apache.org/" title="Spatial Information System">SIS</a></li>

<li><a href="http://sling.apache.org/" title="Web Framework for JCR Content Repositories">Sling</a></li>

<li><a href="http://spamassassin.apache.org/" title="Mail filter to identify spam">SpamAssassin</a></li>

<li><a href="http://spark.apache.org/" title="Fast and general engine for large-scale data processing">Spark</a></li>

<li><a href="http://sqoop.apache.org/" title="Bulk Data Transfer for Hadoop and Structured Datastores">Sqoop</a></li>

<li><a href="http://stanbol.apache.org/" title="Reusable components for semantic content management">Stanbol</a></li>

- <li><a href="http://steve.apache.org/" title="Apache's Python based single transferable vote software system">STeVe</a></li>
- <li><a href="http://struts.apache.org/" title="Model 2 framework for building Java web applications">Struts</a></li>
- <li><a href="http://subversion.apache.org/" title="Version Control">Subversion</a></li>
- <li><a href="http://synapse.apache.org/" title="Enterprise Service Bus and Mediation Framework">Synapse</a></li>
- <li><a href="http://syncope.apache.org/" title="Managing digital identities in enterprise environments">Syncope</a></li>
- <li><a href="http://tajo.apache.org/" title="Big data warehouse system on Hadoop">Tajo</a></li>
- <li><a href="http://tapestry.apache.org/" title="Component-based Java Web Application Framework">Tapestry</a></li>
- <li><a href="http://tcl.apache.org/" title="Dynamic websites using TCL">Tcl</a></li>
- <li><a href="http://tez.apache.org/" title="High-performance and scalable distributed data processing framework">Tez</a></li>
- <li><a href="http://thrift.apache.org/" title="Framework for scalable cross-language services development">Thrift</a></li>
- <li><a href="http://tika.apache.org" title="Content Analysis and Detection Toolkit">Tika</a></li>
- <li><a href="http://tiles.apache.org/" title="A templating framework for web application user interfaces">Tiles</a></li>
- <li><a href="http://tomcat.apache.org/" title="A Java Servlet and JSP Container">Tomcat</a></li>
- <li><a href="http://tomEE.apache.org/" title="Java EE Web Profile built on Tomcat">TomEE</a></li>
- <li><a href="http://trafficserver.apache.org/" title="A fast, scalable and extensible HTTP/1.1 compliant caching proxy server">Traffic Server</a></li>
- <li><a href="http://turbine.apache.org/" title="A Java Servlet Web Application Framework and associated component library">Turbine</a></li>
- <li><a href="http://tuscanY.apache.org/" title="An SCA based Service Composition Framework">Tuscany</a></li>
- <li><a href="http://uima.apache.org/" title="Framework and annotators for unstructured information analysis">UIMA</a></li>
- <li><a href="http://vcl.apache.org/" title="Virtual Computing Lab">VCL</a></li>
- <li><a href="http://velocity.apache.org/" title="A Java Templating Engine">Velocity</a></li>
- <li><a href="http://vxquery.apache.org/" title="A parallel XQuery processor">VXQuery</a></li>
- <li><a href="http://ws.apache.org/" title="Projects related to Web Services">Web Services</a></li>
- <li><a href="http://whirr.apache.org/" title="Libraries for running Cloud Services">Whirr</a></li>
- <li><a href="http://wicket.apache.org/" title="Component-based Java Web Application Framework.">Wicket</a></li>
- <li><a href="http://wink.apache.org/" title="RESTful Web services Framework">Wink</a></li>
- <li><a href="http://wookie.apache.org/" title="Widgets for Applications">Wookie</a></li>
- <li><a href="http://xalan.apache.org/" title="XSLT processors in Java and C++">Xalan</a></li>
- <li><a href="http://xerces.apache.org/" title="XML parsers in Java, C++ and Perl">Xerces</a></li>
- <li><a href="http://xmlbeans.apache.org/" title="XML-Java binding tool">XMLBeans</a></li>
- <li><a href="http://xmlgraphics.apache.org/" title="Conversion from XML to graphical output">XML Graphics</a></li>
- <li><a href="http://zookeeper.apache.org/" title="Centralized service for maintaining configuration information">ZooKeeper</a></li>

</ul>

</div>

<div class="grid\_3">



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<h4>Foundation</h4>
<ul>
<li><a href="/foundation/faq.html">FAQ</a></li>
<li><a href="/foundation/glossary.html">Glossary</a></li>
<li><a href="/licenses/" title="Overview of the Apache Licenses">Licenses</a></li>
<li><a href="/foundation/marks/" title="Apache marks policies and listing">Trademarks</a></li>
<li><a href="/foundation/news.html" title="Official news feed of Foundation announcements">News</a></li>

<li><a href="/press/" title="Press, Media, and Analyst contact">Press Inquiries</a></li>
<li><a href="/foundation/records/" title="Formal corporate records and board meeting minutes">Public
Records</a></li>
<li><a href="/foundation/maillinglists.html" title="Mailing lists and Apache">Mailing Lists</a></li>
<li><a href="/foundation/sponsorship.html" title="Sponsor the Foundation">Sponsorship</a></li>
<li><a href="/foundation/contributing.html" title="Donate to the Foundation">Donations</a></li>
<li><a href="/foundation/buy_stuff.html" title="Buy Apache branded merchandise">Buy Stuff</a></li>
<li><a href="/foundation/thanks.html" title="Thank you to our Sponsors">Thanks</a></li>
<li><a href="/foundation/contact.html" title="Contact Us">Contact</a></li>
</ul>
</div>
<div class="grid_3 suffix_1">
<h4>Foundation Projects</h4>
<ul>
<li><a href="http://attic.apache.org/" title="Inactive projects repository">Attic</a></li>
<li><a href="/foundation/conferences.html" title="Meetings of developers and users">Conferences</a></li>
<li><a href="http://community.apache.org/" title="Helping newcomers to the ASF">Community
Development</a></li>
<li><a href="http://incubator.apache.org/" title="Shepherd for new projects">Incubator</a></li>
<li><a href="/dev/" title="ASF Infrastructure: Operations and howto documents for PMCs and
contributors">Infrastructure</a></li>
<li><a href="http://labs.apache.org/" title="The Innovation Laboratories of the Apache Software
Foundation">Labs</a></li>
<li><a href="/legal/" title="Legal Affairs">Legal Affairs</a></li>
<li><a href="/press/" title="Public Relations">Public Relations</a></li>
<li><a href="/security/" title="Security">Security</a></li>
<li><a href="/travel/" title="Travel Assistance">Travel Assistance</a></li>
</ul>
</div>
<div class="grid_3">
<h4>Community</h4>
<ul>
<li><a href="http://people.apache.org/" title="Apache committer homepages">People</a></li>
<li><a href="/memorials/" title="In memoriam of past committers">Memorials</a></li>
<li><a href="http://feathercast.apache.org/" title="Apache Podcasts">Feathercast</a></li>
<li><a href="http://blogs.apache.org/" title="Apache Project Blogs">Project Blogs</a></li>
<li><a href="http://planet.apache.org/committers/" title="Apache Committers' Blogs">PlanetApache</a></li>
</ul>

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</div>
<div class="grid_3">
  <h4>How It Works</h4>
  <ul>
    <li><a href="/foundation/how-it-works.html">Introduction</a></li>
    <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
    <li><a href="/foundation/how-it-works.html#structure">Structure</a></li>
    <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
    <li><a href="/foundation/how-it-works.html#management">Collaboration</a></li>
    <li><a href="/foundation/how-it-works.html#incubator">Incubator</a></li>
    <li><a href="/foundation/how-it-works.html#other">Other entities</a></li>
    <li><a href="/foundation/glossary.html">Glossary</a></li>
    <li><a href="/foundation/voting.html">Voting</a></li>
  </ul>
</div>
</div>
<div class="clear"></div>

</div>
<div id="copyright" class="container_16">
  <p>Copyright © 1999-2012 The Apache Software Foundation, Licensed under the <a
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.<br/>Apache and the
Apache feather logo are trademarks of The Apache Software Foundation.</p>
</div>
</body>
</html>
<!DOCTYPE html>
<html>
<head>
<title>jsoup License</title>
<meta name="keywords" content="license, open source, mit" />
<meta name="description" content="jsoup is licensed under the MIT open source license" />
<link type="text/css" rel="stylesheet" href="/rez/style.css" />
<script type="text/javascript">
  var _gaq = _gaq || [];
  _gaq.push(['_setAccount', 'UA-89734-10']);
  _gaq.push(['_setDomainName', 'jsoup.org']);
  _gaq.push(['_trackPageview']);

  (function() {
    var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
    ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
    var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
  })();
</script>
</head>
<body class="n1">
  <div class="wrap">

```

```

<div class="header">
<div class="nav-sections">
<ul>
<li class="n1-home"><h4><a href="/">jsoup</a></h4></li>
<li class="n1-news"><a href="/news/">News</a></li>
<li class="n1-bugs"><a href="/bugs">Bugs</a></li>
<li class="n1-discussion"><a href="/discussion">Discussion</a></li>
<li class="n1-download"><a href="/download">Download</a></li>
<li class="n1-api"><a href="/apidocs/">API Reference</a></li>
<li class="n1-cookbook"><a href="/cookbook/">Cookbook</a></li>
<li class="n1-try"><a href="http://try.jsoup.org/">Try jsoup</a></li>
</ul>
</div>
</div>
<div class="breadcrumb">
<a href="/">jsoup</a>
<span class="seperator">&raquo;</span> jsoup License
</div>
<div class="content">
<div class="col1">
<h1>jsoup License</h1>
<p>The jsoup code-base (include source and compiled packages) are distributed under the open source MIT license as described below.</p>
<h3>The MIT License</h3>
<p>Copyright &copy; 2009 - 2013 <a href="http://jonathanhedley.com">Jonathan Hedley</a> (<a href="mailto:jonathan@hedley.net">jonathan@hedley.net</a>)</p>
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</div>
<!-- /col1 -->
<div class="col2">
</div>
<!-- /col2 -->
</div>
<!-- /content-->
<div class="footer">
<b>jsoup HTML parser</b> &copy; 2009 - 2013

```

```
<a href="http://jhy.io/" rel="author"><b>Jonathan Hedley</b></a>
</div>
</div>
<!-- /wrap -->
<script src="/rez/prettify.js"></script>
<script>prettyPrint();</script>
</body>
</html>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
<head>
<meta http-equiv="content-type"
content="text/html; charset=ISO-8859-1">
<title>CDDL ver. 1.0</title>
<meta name="author" content="Cliff Allen">
</head>
<body>
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0
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<br>
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<br>
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<br>
<br>
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<br>
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<br>
<br>
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<br>
<br>
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```

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</body>

</html>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML+RDFa 1.0//EN"

"http://www.w3.org/MarkUp/DTD/xhtml-rdfa-1.dtd">

<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" version="XHTML+RDFa 1.0" dir="ltr">

<head profile="http://www.w3.org/1999/xhtml/vocab">

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" /><script

```
type="text/javascript">window.NREUM||(NREUM={}),__nr_require=function(t,n,e){function r(e){if(!n[e]){var o=n[e]={exports:{}};t[e][0].call(o.exports,function(n){var o=t[e][1][n];return r(o?o:n)},o,o.exports)}return n[e].exports}if("function"===typeof __nr_require)return __nr_require;for(var o=0;o<e.length;o++)r(e[o]);return r}({D5DuLP:[function(t,n){function e(t,n){var e=r[t];return e?e.apply(this,n):(o[t]||o[t]=[],void o[t].push(n))}var r={},o={};n.exports=e,e.queues=o,e.handlers=r},{},handle:[function(t,n){n.exports=t("D5DuLP")},{},G9z0Bl:[function(t,n){function e(){var t=l.info=NREUM.info;if(t&&t.agent&&t.licenseKey&&t.applicationID&&p&&p.body){l.proto="https"===f.split(":"[0])|t.ssiForHttp?"https://":"http://",i("mark",["onload",a()]);var n=p.createElement("script");n.src=l.proto+t.agent,p.body.appendChild(n)}}function r(){"complete"===p.readyState&&o()}function o(){i("mark",["domContentLoaded",a()])}function a(){return(new Date).getTime()}var i=t("handle"),u=window,p=u.document,s="addEventListener",c="attachEvent",f=((""+location).split("?")[0],l=n.exp
```

```

orts={offset:a(),origin:f,features:[]};p[s]?(p[s]("DOMContentLoaded",o,!1),u[s]("load",e,!1)):p[c]("onreadystatechange",r),u[c]("onload",e)),i("mark",["firstbyte",a()]),{handle:"D5DuLP"}},loader:[function(t,n){n.exports=t("G9z0B
l")},{}],{["G9z0B1"]});</script>
<link rel="shortcut icon" href="http://opensource.org/files/garland_favicon.png" type="image/png" />
<link rel="shortlink" href="/node/66" />
<link rel="canonical" href="/licenses/MIT" />
<meta name="Generator" content="Drupal 7 (http://drupal.org)" />
<title>The MIT License (MIT) | Open Source Initiative</title>
<link type="text/css" rel="stylesheet"
href="http://opensource.org/files/css/css_pbm0lsQQJ7A7WCCIMgxLho6mI_kBNgznuNUWmTWcnfoE.css"
media="all" />
<link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_2ATB4XKGEvmoUk_p62PwI-
o2aW47EqqS0nD2dmPZoV4.css" media="all" />
<link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_2wi77kyP-
rJKVpFW5M3KFcj7Cb99lZalmubKIwWwsmU.css" media="all" />
<link type="text/css" rel="stylesheet"
href="http://opensource.org/files/css/css_k3snrbsthqot7V7ccRZHS9OkCZkwBv4adtNieIV1bEU.css" media="print"
/>

<!--[if lt IE 7]>
<link type="text/css" rel="stylesheet" href="http://opensource.org/themes/garland/fix-ie.css?n59km7" media="all"
/>
<![endif]-->
<script type="text/javascript"
src="http://opensource.org/files/js/js_xAPI0qIk9eowy_is9tNkCWXLUVoat94SQT48UBCFkyQ.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[//><!--
jQuery.extend(Drupal.settings,
{"basePath":"\/","pathPrefix":"","ajaxPageState":{"theme":"garland","theme_token":"7BC2XvMXRSjxxfAnx01wx
Kt4P-EKC8jv0RcJ6wO-W-
I","js":{"misc\/jquery.js":1,"misc\/jquery.once.js":1,"misc\/drupal.js":1},"css":{"modules\/system\/system.base.css":
1,"modules\/system\/system.menus.css":1,"modules\/system\/system.messages.css":1,"modules\/system\/system.the
me.css":1,"modules\/aggregator\/aggregator.css":1,"modules\/comment\/comment.css":1,"modules\/field\/theme\/fie
ld.css":1,"sites\/all\/modules\/mollom\/mollom.css":1,"modules\/node\/node.css":1,"modules\/search\/search.css":1,"
modules\/user\/user.css":1,"themes\/garland\/style.css":1,"themes\/garland\/print.css":1,"themes\/garland\/fix-
ie.css":1}}});
//--><![ ]>
</script>
</head>
<body class="html not-front not-logged-in one-sidebar sidebar-first page-node page-node- page-node-66 node-type-
page fluid-width" >
<div id="skip-link">
<a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
</div>

<div id="wrapper">
<div id="container" class="clearfix">

```

```

<div id="header">
  <div id="logo-floater">
    <div id="branding"><strong><a href="/">
      
      <span>Open Source Initiative</span>      </a></strong></div>
    </div>

  </div> <!-- /#header -->

  <div id="sidebar-first" class="sidebar">
    <div class="region region-sidebar-first">
<div id="block-search-form" class="block block-search clearfix">

<h2 class="title">Search this site:</h2>

<div class="content">
  <form action="/licenses/mit-license.php" method="post" id="search-block-form" accept-charset="UTF-
8"><div><div class="container-inline">
  <div class="form-item form-type-textfield form-item-search-block-form">
<label class="element-invisible" for="edit-search-block-form--2">Search </label>
<input title="Enter the terms you wish to search for." type="text" id="edit-search-block-form--2"
name="search_block_form" value="" size="15" maxlength="128" class="form-text" />
</div>
<div class="form-actions form-wrapper" id="edit-actions"><input type="submit" id="edit-submit" name="op"
value="Search" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
Fu509gwwA_G6BKwWouvTdRVXDC6NcOl6GBr5Vx6VP0" />
<input type="hidden" name="form_id" value="search_block_form" />
</div>
</div></form> </div>
</div>
<div id="block-system-navigation" class="block block-system block-menu clearfix">

  <h2 class="title">Navigation</h2>

  <div class="content">
    <ul class="menu"><li class="first collapsed"><a href="/about" title="About the Open Source Initiative">About
the OSI</a></li>
<li class="collapsed"><a href="/osd" title="The actual OSD defining what constitutes an Open Source licence">The
Open Source Definition</a></li>
<li class="collapsed"><a href="/licenses">Open Source Licenses</a></li>
<li class="leaf"><a href="/working_groups">Working Groups</a></li>
<li class="leaf"><a href="/faq" title="Frequently Asked Questions about open source and about the
OSI.">FAQ</a></li>
<li class="collapsed"><a href="/trademark" title="Information about trademark and logo usage">Trademark and
Logo Usage</a></li>
<li class="collapsed"><a href="/osr-intro" title="Open Standards Requirement for Software">Open
Standards</a></li>

```

- <li class="leaf"><a href="/osi-open-source-education" title="OSI's Open Source Education Initiative and Activities">Open Source Education</a></li>
- <li class="collapsed"><a href="/lists" title="The virtual committees where the OSI's work gets done">Mailing lists</a></li>
- <li class="collapsed"><a href="/help" title="Resources for questions and further exploration">Getting Help</a></li>
- <li class="collapsed"><a href="http://opensource.org/donate" title="">Donate to the OSI</a></li>
- <li class="leaf"><a href="/members">OSI Individual Membership</a></li>
- <li class="leaf"><a href="/store">OSI Store</a></li>
- <li class="collapsed"><a href="/affiliates" title="Home page for OSI's membership scheme for non-profits and not-for-profits">OSI Affiliate Membership</a></li>
- <li class="leaf"><a href="/contact" title="">Contact OSI</a></li>
- <li class="leaf"><a href="/ToS" title="Rules for posting content on this site">Terms of Service</a></li>
- <li class="last leaf"><a href="/sponsors">OSI Corporate Sponsors</a></li>

</div> </div> </div> </div>

&lt;div id="center"&gt;&lt;div id="squeeze"&gt;&lt;div class="right-corner"&gt;&lt;div class="left-corner"&gt;
&lt;h2 class="element-invisible"&gt;You are here&lt;/h2&gt;&lt;div class="breadcrumb"&gt;&lt;a href="/"&gt;Home&lt;/a&gt;&lt;/div&gt;
&lt;a id="main-content"&gt;&lt;/a&gt;
&lt;div id="tabs-wrapper" class="clearfix"&gt; &lt;h1 class="with-tabs"&gt;The MIT License (MIT)&lt;/h1&gt;
&lt;/div&gt; &lt;div class="clearfix"&gt;
&lt;div class="region region-content"&gt;
&lt;div id="block-system-main" class="block block-system clearfix"&gt;

&lt;div class="content"&gt;
&lt;div id="node-66" class="node node-page"&gt;

&lt;div class="content clearfix"&gt;
&lt;img style="float: right; margin: 1em;" width="100" height="137" alt="[OSI Approved License]" src="/trademarks/opensource/OSI-Approved-License-100x137.png"/&gt;
&lt;div class="field field-name-body field-type-text-with-summary field-label-hidden"&gt;&lt;div class="field-items"&gt;&lt;div class="field-item even"&gt;&lt;p&gt;The MIT License (MIT)&lt;/p&gt;
&lt;p&gt;Copyright (c) &amp;lt;year&amp;gt; &amp;lt;copyright holders&amp;gt;&lt;/p&gt;
&lt;p&gt;Permission is hereby granted, free of charge, to any person obtaining a copy&lt;br /&gt; of this software and associated documentation files (the "Software"), to deal&lt;br /&gt; in the Software without restriction, including without limitation the rights&lt;br /&gt; to use, copy, modify, merge, publish, distribute, sublicense, and/or sell&lt;br /&gt; copies of the Software, and to permit persons to whom the Software is&lt;br /&gt; furnished to do so, subject to the following conditions:&lt;/p&gt;

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FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE<br />  
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LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,<br />  
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN<br />  
THE SOFTWARE.</p>  
</div></div></div> </div>

<div class="clearfix">  
    <div class="links"></div>

</div>

</div>

</div>

</div>

</div>

</div>

    <div class="region region-footer">

    <div id="block-block-11" class="block block-block clearfix">

<div class="content">

    <p style="text-align:center">Help shape the future of the Open Source Initiative...<br /><a  
href="http://osi.xwiki.com">visit and participate in the OSI wiki</a>.  
</p>

<div>

<a href="https://twitter.com/OpenSourceOrg" class="twitter-follow-button" data-show-count="false" data-  
lang="en">Follow @OpenSourceOrg</a>

<script>

<!--/--><![CDATA[// ><!--

!function(d,s,id){var

js,fjs=d.getElementsByTagName(s)[0];if(!d.getElementById(id)){js=d.createElement(s);js.id=id;js.src="//platform.t  
witter.com/widgets.js";fjs.parentNode.insertBefore(js,fjs);}}(document,"script","twitter-wjs");

//--><![>

</script></div>

<p>

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href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0 International  
License</a>.<!-- /Creative Commons License -->



```

<!-- <rdf:RDF xmlns="http://web.resource.org/cc/" xmlns:dc="http://purl.org/dc/elements/1.1/"
xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
<Work rdf:about="">
  <license rdf:resource="http://creativecommons.org/licenses/by/3.0/" />
</Work>
<License rdf:about="http://creativecommons.org/licenses/by/3.0"><permits
rdf:resource="http://web.resource.org/cc/Reproduction"/><permits
rdf:resource="http://web.resource.org/cc/Distribution"/><requires
rdf:resource="http://web.resource.org/cc/Notice"/><requires
rdf:resource="http://web.resource.org/cc/Attribution"/><permits
rdf:resource="http://web.resource.org/cc/DerivativeWorks"/></License></rdf:RDF>
-->

```

```

| <a href="..ToS">Terms of Service</a>

```

```

</p>
</div>
</div>
<div id="block-block-7" class="block block-block clearfix">

```

```

<div class="content">
  <script src="http://www.google-analytics.com/urchin.js" type="text/javascript">
<!--/--><![CDATA[// ><!--

```

```

//--><![]]>
</script><script type="text/javascript">
<!--/--><![CDATA[// ><!--

```

```

_uacct = "UA-3916956-1";
urchinTracker();

```

```

//--><![]]>
</script> </div>
</div>
</div>

```

```

</div></div></div></div> <!-- /.left-corner, /.right-corner, /#squeeze, /#center -->

```

```

</div> <!-- /#container -->
</div> <!-- /#wrapper -->
<script type="text/javascript">window.NREUM||(NREUM={});NREUM.info={"beacon":"beacon-
1.newrelic.com","licenseKey":"53c69192ac","applicationID":"224050","transactionName":"b1dRZkQCXEEHAEV
RXFYdZkBFtFtcAgZJfKnQQg==","queueTime":0,"applicationTime":28,"ttGuid":"","agentToken":"","atts":"QxB
SEAwYT08=","errorBeacon":"bam.nr-data.net","agent":"js-agent.newrelic.com\\nr-411.min.js"}</script></body>
</html>

```

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## 1.316 Woodstox 3.2.7

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## 1.317 wsdl4j 1.6.1

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## 1.319 wstx 3.2.0

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That's all there is to it!

## 1.320 wstx-asl 3.2.7

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Version 2.1, February 1999

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## 1.341 xp 1.0

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## 1.342 XPP - XML Pull Parser 3-1.1.3.4.O

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- \* Container

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- \* YUI Loader
- \* YUI Test
- \* Reset CSS
- \* Base CSS
- \* Fonts CSS
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yui/examples/treeview/assets/js/json.js:

/\*

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\*/

yui/assets/dpSyntaxHighlighter.js

yui/examples/profilerviewer/assets/dpSyntaxHighlighter.js

yui/examples/treeview/assets/js/dpSyntaxHighlighter.js

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yui/build/animation/animation-debug.js

yui/build/animation/animation-min.js

yui/build/animation/animation.js

yui/build/utilities/utilities.js

yui/docs/Easing.js.html

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yui/build/charts/charts-experimental-debug.js

yui/build/charts/charts-experimental-min.js

yui/build/charts/charts-experimental.js

yui/build/uploader/uploader-experimental-debug.js

yui/build/uploader/uploader-experimental-min.js

yui/build/uploader/uploader-experimental.js

yui/docs/swfobject.js.html

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yui-2.6.0/yui/as-src/charts/com/adobe/serialization/json/JSON.as

yui-2.6.0/yui/as-src/charts/com/adobe/serialization/json/JSONDecoder.as

yui-2.6.0/yui/as-src/charts/com/adobe/serialization/json/JSONEncoder.as

yui-2.6.0/yui/as-src/charts/com/adobe/serialization/json/JSONParseError.as

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yui-2.6.0/yui/as-src/charts/com/adobe/serialization/json/JSONTokenizer.as

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==> yui-2.6.0/yui/assets/dpSyntaxHighlighter.js <==

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\* Version 1.3.0

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==> yui-2.6.0/yui/examples/treeview/assets/js/dpSyntaxHighlighter.js <==

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Written by: Philip Hazel  
Email local part: ph10  
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Email local part: ph10  
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[Misc C library code]

/\*

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\*/

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[zlib]

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.3, July 18th, 2005

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

\*/

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[edoc, syntax\_tools]

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[eldap]

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## 2.3 rabbitmq-server 3.3.5 :17.e17

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/\* lib/font/fontfile/gunzip.c

written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.

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## 3.15 libXi 1.7.4 :2.e17

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## 3.17 libXtst 1.2.2 :2.1.el7

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## 3.18 Iksctp-tools 1.0.13 :3.el7



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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```
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under certain conditions; type `show c' for details.
```

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```
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'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

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## 3.20 tzdata 2016f :1.e17

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## 3.21 xorg-x11-font-utils 7.5 :20.el7

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## 3.22 xorg-x11-fonts 7.5 :9.el7

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