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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
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Version 2.0, January 2004

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That's all there is to it!

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*

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1.91 JBoss Logging 3 3.1.3.GA

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1.92 jcl-over-slf4j 1.7.10

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 */
```

```
package org.apache.commons.logging.impl;
```

```
import java.io.InputStream;
import java.io.Serializable;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
import java.security.AccessController;
import java.security.PrivilegedAction;
import java.text.DateFormat;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.Properties;
```

```
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogConfigurationException;
```

```
/**
 * <p>
 * Simple implementation of Log that sends all enabled log messages, for all
 * defined loggers, to System.err. The following system properties are supported
 * to configure the behavior of this logger:
 * </p>
 * <ul>
 * <li><code>org.apache.commons.logging.simplelog.defaultlog</code> - Default
 * logging detail level for all instances of SimpleLog. Must be one of ("trace",
 * "debug", "info", "warn", "error", or "fatal"). If not specified, defaults to
 * "info".</li>
 * <li><code>org.apache.commons.logging.simplelog.log.xxxxx</code> - Logging
```


- * detail level for a SimpleLog instance named "xxxxx". Must be one of ("trace",
- * "debug", "info", "warn", "error", or "fatal"). If not specified, the default
- * logging detail level is used.
- * <code>org.apache.commons.logging.simplelog.showlogname</code> - Set to
- * <code>true</code> if you want the Log instance name to be included in output
- * messages. Defaults to <code>false</code>.
- * <code>org.apache.commons.logging.simplelog.showShortLogname</code> - Set
- * to <code>true</code> if you want the last component of the name to be
- * included in output messages. Defaults to <code>true</code>.
- * <code>org.apache.commons.logging.simplelog.showdatetime</code> - Set to
- * <code>true</code> if you want the current date and time to be included in
- * output messages. Default is <code>false</code>.
- * <code>org.apache.commons.logging.simplelog.dateTimeFormat</code> - The
- * date and time format to be used in the output messages. The pattern
- * describing the date and time format is the same that is used in
- * <code>java.text.SimpleDateFormat</code>. If the format is not specified or is
- * invalid, the default format is used. The default format is
- * <code>yyyy/MM/dd HH:mm:ss:SSS zzz</code>.

*

* <p>

* In addition to looking for system properties with the names specified above,

* this implementation also checks for a class loader resource named

* <code>"simplelog.properties"</code>, and includes any matching definitions

* from this resource (if it exists).

* </p>

*

* @author Scott Sanders

* @author Rod Waldhoff

* @author Robert Burrell Donkin

*

* @version \$Id: SimpleLog.java,v 1.21 2004/06/06 20:47:56 rdonkin Exp \$

*/

```
public class SimpleLog implements Log, Serializable {
```

```
    private static final long serialVersionUID = 136942970684951178L;
```

```
    // ----- Class Attributes
```

```
    /** All system properties used by <code>SimpleLog</code> start with this */
```

```
    static protected final String systemPrefix = "org.apache.commons.logging.simplelog.";
```

```
    /** Properties loaded from simplelog.properties */
```

```
    static protected final Properties simpleLogProps = new Properties();
```

```
    /** The default format to use when formatting dates */
```

```
    static protected final String DEFAULT_DATE_TIME_FORMAT = "yyyy/MM/dd HH:mm:ss:SSS zzz";
```

```

/** Include the instance name in the log message? */
static protected boolean showLogName = false;
/**
 * Include the short name ( last component ) of the logger in the log message.
 * Defaults to true - otherwise we'll be lost in a flood of messages without
 * knowing who sends them.
 */
static protected boolean showShortName = true;
/** Include the current time in the log message */
static protected boolean showDateTime = false;
/** The date and time format to use in the log message */
static protected String dateTimeFormat = DEFAULT_DATE_TIME_FORMAT;
/** Used to format times */
static protected DateFormat dateFormatter = null;

// ----- Log Level Constants

/** "Trace" level logging. */
public static final int LOG_LEVEL_TRACE = 1;
/** "Debug" level logging. */
public static final int LOG_LEVEL_DEBUG = 2;
/** "Info" level logging. */
public static final int LOG_LEVEL_INFO = 3;
/** "Warn" level logging. */
public static final int LOG_LEVEL_WARN = 4;
/** "Error" level logging. */
public static final int LOG_LEVEL_ERROR = 5;
/** "Fatal" level logging. */
public static final int LOG_LEVEL_FATAL = 6;

/** Enable all logging levels */
public static final int LOG_LEVEL_ALL = (LOG_LEVEL_TRACE - 1);

/** Enable no logging levels */
public static final int LOG_LEVEL_OFF = (LOG_LEVEL_FATAL + 1);

// ----- Initializer

private static String getStringProperty(String name) {
    String prop = null;
    try {
        prop = System.getProperty(name);
    } catch (SecurityException e) {
        ; // Ignore
    }
    return (prop == null) ? simpleLogProps.getProperty(name) : prop;
}

```

```

private static String getStringProperty(String name, String dephault) {
    String prop = getStringProperty(name);
    return (prop == null) ? dephault : prop;
}

private static boolean getBooleanProperty(String name, boolean dephault) {
    String prop = getStringProperty(name);
    return (prop == null) ? dephault : "true".equalsIgnoreCase(prop);
}

// Initialize class attributes.
// Load properties file, if found.
// Override with system properties.
static {
    // Add props from the resource simplelog.properties
    InputStream in = getResourceAsStream("simplelog.properties");
    if (null != in) {
        try {
            simpleLogProps.load(in);
            in.close();
        } catch (java.io.IOException e) {
            // ignored
        }
    }
}

showLogName = getBooleanProperty(systemPrefix + "showlogname", showLogName);
showShortName = getBooleanProperty(systemPrefix + "showShortLogname",
    showShortName);
showDateTime = getBooleanProperty(systemPrefix + "showdatetime",
    showDateTime);

if (showDateTime) {
    dateTimeFormat = getStringProperty(systemPrefix + "dateTimeFormat",
        dateTimeFormat);
    try {
        dateFormatter = new SimpleDateFormat(dateTimeFormat);
    } catch (IllegalArgumentException e) {
        // If the format pattern is invalid - use the default format
        dateTimeFormat = DEFAULT_DATE_TIME_FORMAT;
        dateFormatter = new SimpleDateFormat(dateTimeFormat);
    }
}
}

// ----- Attributes

/** The name of this simple log instance */
protected String logName = null;

```

```

/** The current log level */
protected int currentLogLevel;
/** The short name of this simple log instance */
private String shortLogName = null;

// ----- Constructor

/**
 * Construct a simple log with given name.
 *
 * @param name
 *       log name
 */
public SimpleLog(String name) {

    logName = name;

    // Set initial log level
    // Used to be: set default log level to ERROR
    // IMHO it should be lower, but at least info ( costin ).
    setLevel(SimpleLog.LOG_LEVEL_INFO);

    // Set log level from properties
    String lvl = getStringProperty(systemPrefix + "log." + logName);
    int i = String.valueOf(name).lastIndexOf(".");
    while (null == lvl && i > -1) {
        name = name.substring(0, i);
        lvl = getStringProperty(systemPrefix + "log." + name);
        i = String.valueOf(name).lastIndexOf(".");
    }

    if (null == lvl) {
        lvl = getStringProperty(systemPrefix + "defaultlog");
    }

    if ("all".equalsIgnoreCase(lvl)) {
        setLevel(SimpleLog.LOG_LEVEL_ALL);
    } else if ("trace".equalsIgnoreCase(lvl)) {
        setLevel(SimpleLog.LOG_LEVEL_TRACE);
    } else if ("debug".equalsIgnoreCase(lvl)) {
        setLevel(SimpleLog.LOG_LEVEL_DEBUG);
    } else if ("info".equalsIgnoreCase(lvl)) {
        setLevel(SimpleLog.LOG_LEVEL_INFO);
    } else if ("warn".equalsIgnoreCase(lvl)) {
        setLevel(SimpleLog.LOG_LEVEL_WARN);
    } else if ("error".equalsIgnoreCase(lvl)) {
        setLevel(SimpleLog.LOG_LEVEL_ERROR);
    } else if ("fatal".equalsIgnoreCase(lvl)) {

```

```

        setLevel(SimpleLog.LOG_LEVEL_FATAL);
    } else if ("off".equalsIgnoreCase(lvl)) {
        setLevel(SimpleLog.LOG_LEVEL_OFF);
    }
}

// ----- Properties

/**
 * <p>
 * Set logging level.
 * </p>
 *
 * @param currentLogLevel
 *     new logging level
 */
public void setLevel(int currentLogLevel) {

    this.currentLogLevel = currentLogLevel;

}

/**
 * <p>
 * Get logging level.
 * </p>
 */
public int getLevel() {

    return currentLogLevel;

}

// ----- Logging Methods

/**
 * <p>
 * Do the actual logging. This method assembles the message and then calls
 * <code>write()</code> to cause it to be written.
 * </p>
 *
 * @param type
 *     One of the LOG_LEVEL_XXX constants defining the log level
 * @param message
 *     The message itself (typically a String)
 * @param t
 *     The exception whose stack trace should be logged
 */

```

```

protected void log(int type, Object message, Throwable t) {
    // Use a string buffer for better performance
    StringBuffer buf = new StringBuffer();

    // Append date-time if so configured
    if (showDateTime) {
        buf.append(dateFormatter.format(new Date()));
        buf.append(" ");
    }

    // Append a readable representation of the log level
    switch (type) {
    case SimpleLog.LOG_LEVEL_TRACE:
        buf.append("[TRACE] ");
        break;
    case SimpleLog.LOG_LEVEL_DEBUG:
        buf.append("[DEBUG] ");
        break;
    case SimpleLog.LOG_LEVEL_INFO:
        buf.append("[INFO] ");
        break;
    case SimpleLog.LOG_LEVEL_WARN:
        buf.append("[WARN] ");
        break;
    case SimpleLog.LOG_LEVEL_ERROR:
        buf.append("[ERROR] ");
        break;
    case SimpleLog.LOG_LEVEL_FATAL:
        buf.append("[FATAL] ");
        break;
    }

    // Append the name of the log instance if so configured
    if (showShortName) {
        if (shortLogName == null) {
            // Cut all but the last component of the name for both styles
            shortLogName = logName.substring(logName.lastIndexOf(".") + 1);
            shortLogName = shortLogName
                .substring(shortLogName.lastIndexOf("/") + 1);
        }
        buf.append(String.valueOf(shortLogName)).append(" - ");
    } else if (showLogName) {
        buf.append(String.valueOf(logName)).append(" - ");
    }

    // Append the message
    buf.append(String.valueOf(message));
}

```

```

// Append stack trace if not null
if (t != null) {
    buf.append(" <");
    buf.append(t.toString());
    buf.append(">");

    java.io.StringWriter sw = new java.io.StringWriter(1024);
    java.io.PrintWriter pw = new java.io.PrintWriter(sw);
    t.printStackTrace(pw);
    pw.close();
    buf.append(sw.toString());
}

// Print to the appropriate destination
write(buf);

}

/**
 * <p>
 * Write the content of the message accumulated in the specified
 * <code>StringBuffer</code> to the appropriate output destination. The
 * default implementation writes to <code>System.err</code>.
 * </p>
 *
 * @param buffer
 *     A <code>StringBuffer</code> containing the accumulated text to be
 *     logged
 */
protected void write(StringBuffer buffer) {

    System.err.println(buffer.toString());

}

/**
 * Is the given log level currently enabled?
 *
 * @param logLevel
 *     is this level enabled?
 */
protected boolean isLevelEnabled(int logLevel) {
    // log level are numerically ordered so can use simple numeric
    // comparison
    return (logLevel >= currentLogLevel);
}

// ----- Log Implementation

```

```

/**
 * <p>
 * Log a message with debug log level.
 * </p>
 */
public final void debug(Object message) {

    if (isLevelEnabled(SimpleLog.LOG_LEVEL_DEBUG)) {
        log(SimpleLog.LOG_LEVEL_DEBUG, message, null);
    }
}

/**
 * <p>
 * Log an error with debug log level.
 * </p>
 */
public final void debug(Object message, Throwable t) {

    if (isLevelEnabled(SimpleLog.LOG_LEVEL_DEBUG)) {
        log(SimpleLog.LOG_LEVEL_DEBUG, message, t);
    }
}

/**
 * <p>
 * Log a message with trace log level.
 * </p>
 */
public final void trace(Object message) {

    if (isLevelEnabled(SimpleLog.LOG_LEVEL_TRACE)) {
        log(SimpleLog.LOG_LEVEL_TRACE, message, null);
    }
}

/**
 * <p>
 * Log an error with trace log level.
 * </p>
 */
public final void trace(Object message, Throwable t) {

    if (isLevelEnabled(SimpleLog.LOG_LEVEL_TRACE)) {
        log(SimpleLog.LOG_LEVEL_TRACE, message, t);
    }
}

```



```

/**
 * <p>
 * Log a message with info log level.
 * </p>
 */
public final void info(Object message) {

    if (isLevelEnabled(SimpleLog.LOG_LEVEL_INFO)) {
        log(SimpleLog.LOG_LEVEL_INFO, message, null);
    }
}

/**
 * <p>
 * Log an error with info log level.
 * </p>
 */
public final void info(Object message, Throwable t) {

    if (isLevelEnabled(SimpleLog.LOG_LEVEL_INFO)) {
        log(SimpleLog.LOG_LEVEL_INFO, message, t);
    }
}

/**
 * <p>
 * Log a message with warn log level.
 * </p>
 */
public final void warn(Object message) {

    if (isLevelEnabled(SimpleLog.LOG_LEVEL_WARN)) {
        log(SimpleLog.LOG_LEVEL_WARN, message, null);
    }
}

/**
 * <p>
 * Log an error with warn log level.
 * </p>
 */
public final void warn(Object message, Throwable t) {

    if (isLevelEnabled(SimpleLog.LOG_LEVEL_WARN)) {
        log(SimpleLog.LOG_LEVEL_WARN, message, t);
    }
}

```

```

/**
 * <p>
 * Log a message with error log level.
 * </p>
 */
public final void error(Object message) {

    if (isLevelEnabled(SimpleLog.LOG_LEVEL_ERROR)) {
        log(SimpleLog.LOG_LEVEL_ERROR, message, null);
    }
}

/**
 * <p>
 * Log an error with error log level.
 * </p>
 */
public final void error(Object message, Throwable t) {

    if (isLevelEnabled(SimpleLog.LOG_LEVEL_ERROR)) {
        log(SimpleLog.LOG_LEVEL_ERROR, message, t);
    }
}

/**
 * <p>
 * Log a message with fatal log level.
 * </p>
 */
public final void fatal(Object message) {

    if (isLevelEnabled(SimpleLog.LOG_LEVEL_FATAL)) {
        log(SimpleLog.LOG_LEVEL_FATAL, message, null);
    }
}

/**
 * <p>
 * Log an error with fatal log level.
 * </p>
 */
public final void fatal(Object message, Throwable t) {

    if (isLevelEnabled(SimpleLog.LOG_LEVEL_FATAL)) {
        log(SimpleLog.LOG_LEVEL_FATAL, message, t);
    }
}

```

```

/**
 * <p>
 * Are debug messages currently enabled?
 * </p>
 *
 * <p>
 * This allows expensive operations such as <code>String</code> concatenation
 * to be avoided when the message will be ignored by the logger.
 * </p>
 */
public final boolean isDebugEnabled() {

    return isLevelEnabled(SimpleLog.LOG_LEVEL_DEBUG);
}

/**
 * <p>
 * Are error messages currently enabled?
 * </p>
 *
 * <p>
 * This allows expensive operations such as <code>String</code> concatenation
 * to be avoided when the message will be ignored by the logger.
 * </p>
 */
public final boolean isErrorEnabled() {

    return isLevelEnabled(SimpleLog.LOG_LEVEL_ERROR);
}

/**
 * <p>
 * Are fatal messages currently enabled?
 * </p>
 *
 * <p>
 * This allows expensive operations such as <code>String</code> concatenation
 * to be avoided when the message will be ignored by the logger.
 * </p>
 */
public final boolean isFatalEnabled() {

    return isLevelEnabled(SimpleLog.LOG_LEVEL_FATAL);
}

/**
 * <p>

```

```

* Are info messages currently enabled?
* </p>
*
* <p>
* This allows expensive operations such as <code>String</code> concatenation
* to be avoided when the message will be ignored by the logger.
* </p>
*/
public final boolean isInfoEnabled() {

    return isLevelEnabled(SimpleLog.LOG_LEVEL_INFO);
}

/**
* <p>
* Are trace messages currently enabled?
* </p>
*
* <p>
* This allows expensive operations such as <code>String</code> concatenation
* to be avoided when the message will be ignored by the logger.
* </p>
*/
public final boolean isTraceEnabled() {

    return isLevelEnabled(SimpleLog.LOG_LEVEL_TRACE);
}

/**
* <p>
* Are warn messages currently enabled?
* </p>
*
* <p>
* This allows expensive operations such as <code>String</code> concatenation
* to be avoided when the message will be ignored by the logger.
* </p>
*/
public final boolean isWarnEnabled() {

    return isLevelEnabled(SimpleLog.LOG_LEVEL_WARN);
}

/**
* Return the thread context class loader if available. Otherwise return null.
*
* The thread context class loader is available for JDK 1.2 or later, if
* certain security conditions are met.

```

```

*
* @exception LogConfigurationException
*     if a suitable class loader cannot be identified.
*/
private static ClassLoader getContextClassLoader() {
    ClassLoader classLoader = null;

    if (classLoader == null) {
        try {
            // Are we running on a JDK 1.2 or later system?
            Method method = Thread.class.getMethod("getContextClassLoader");

            // Get the thread context class loader (if there is one)
            try {
                classLoader = (ClassLoader) method.invoke(Thread.currentThread());
            } catch (IllegalAccessException e) {
                ; // ignore
            } catch (InvocationTargetException e) {
                /**
                 * InvocationTargetException is thrown by 'invoke' when the method
                 * being invoked (getContextClassLoader) throws an exception.
                 *
                 * getContextClassLoader() throws SecurityException when the context
                 * class loader isn't an ancestor of the calling class's class loader,
                 * or if security permissions are restricted.
                 *
                 * In the first case (not related), we want to ignore and keep going.
                 * We cannot help but also ignore the second with the logic below, but
                 * other calls elsewhere (to obtain a class loader) will trigger this
                 * exception where we can make a distinction.
                 */
                if (e.getTargetException() instanceof SecurityException) {
                    ; // ignore
                } else {
                    // Capture 'e.getTargetException()' exception for details
                    // alternate: log 'e.getTargetException()', and pass back 'e'.
                    throw new LogConfigurationException(
                        "Unexpected InvocationTargetException", e.getTargetException());
                }
            }
        } catch (NoSuchMethodException e) {
            // Assume we are running on JDK 1.1
            ; // ignore
        }
    }

    if (classLoader == null) {
        classLoader = SimpleLog.class.getClassLoader();
    }
}

```

```

    }

    // Return the selected class loader
    return classLoader;
}

private static InputStream getResourceAsStream(final String name) {
    return AccessController.doPrivileged(new PrivilegedAction<InputStream>() {
        public InputStream run() {
            ClassLoader threadCL = getContextClassLoader();

            if (threadCL != null) {
                return threadCL.getResourceAsStream(name);
            } else {
                return ClassLoader.getResourceAsStream(name);
            }
        }
    });
}
}

```

1.93 JDOM 2.0.5

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1.96 jersey-core 1.19

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1.145 jul-to-slf4j 1.7.10

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1.146 jumi-actors 0.1.196

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1.147 log4j-over-slf4j 1.7.10

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 */
package org.apache.log4j;

public class SimpleLayout extends Layout {
}
```

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1.151 maven-scm-api 1.9.2

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1.163 plexus-utils 3.0.9 :9.e17

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1.164 resteasy-jaxrs 2.3.6.Final

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1.186 SnakeYAML 1.14

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```

```
package org.springframework.boot.bind;
```

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

```
import org.springframework.util.PatternMatchUtils;
```

```
/**
```

```

* { @link PropertyNamePatternsMatcher } that delegates to
* { @link PatternMatchUtils#simpleMatch(String[], String) }.

```

```
*
```

```
* @author Phillip Webb
```

```
* @since 1.2.0
```

```
*/
```

```
class SimplePropertyNamePatternsMatcher implements PropertyNamePatternsMatcher {
```

```
    private final String[] patterns;
```

```

    public SimplePropertyNamePatternsMatcher(Collection<String> patterns) {
        this.patterns = (patterns == null ? new String[] { } : patterns
            .toArray(new String[patterns.size()]));
    }

```

```
    @Override
```

```

    public boolean matches(String propertyName) {
        return PatternMatchUtils.simpleMatch(this.patterns, propertyName);
    }

```

```
}
```

```
/*
```

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*/
```

```
package org.springframework.boot.context.embedded.undertow;
```

```
import io.undertow.servlet.api.DeploymentInfo;
```

```
/**
```

```
* Callback interface that can be used to customize an Undertow {@link DeploymentInfo}.
```

```
*
```

```
* @author Phillip Webb
```

```
* @since 1.2.0
```

```
* @see UndertowEmbeddedServletContainerFactory
```

```
*/
```

```
public interface UndertowDeploymentInfoCustomizer {
```

```
/**
```

```
* @param deploymentInfo the {@code DeploymentInfo} to customize
```

```
*/
```

```
void customize(DeploymentInfo deploymentInfo);
```

```
}
```

```
/*
```

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```
*/
```

```
package org.springframework.boot.logging.java;
```

```
import java.io.PrintWriter;
```

```
import java.io.StringWriter;
```

```
import java.util.Date;
```

```
import java.util.logging.Formatter;
```

```

import java.util.logging.LogRecord;

/**
 * Simple 'Java Logging' {@link Formatter}.
 *
 * @author Phillip Webb
 */
public class SimpleFormatter extends Formatter {

    private static final String DEFAULT_FORMAT = "[%1$tY-%1$tm-%1$td %1$tH:%1$tM:%1$tS.%1$tL] - %8$s
%4$s [%7$s] --- %3$s: %5$s%6$s%n";

    private final String format = getOrDefault("LOG_FORMAT", DEFAULT_FORMAT);

    private final String pid = getOrDefault("PID", "????");

    private final Date date = new Date();

    @Override
    public synchronized String format(LogRecord record) {
        this.date.setTime(record.getMillis());
        String source = record.getLoggerName();
        String message = formatMessage(record);
        String throwable = getThrowable(record);
        String thread = getThreadName();
        return String.format(this.format, this.date, source, record.getLoggerName(),
            record.getLevel().getLocalizedName(), message, throwable, thread,
            this.pid);
    }

    private String getThrowable(LogRecord record) {
        if (record.getThrown() == null) {
            return "";
        }
        StringWriter stringWriter = new StringWriter();
        PrintWriter printWriter = new PrintWriter(stringWriter);
        printWriter.println();
        record.getThrown().printStackTrace(printWriter);
        printWriter.close();
        return stringWriter.toString();
    }

    private String getThreadName() {
        String name = Thread.currentThread().getName();
        return (name == null ? "" : name);
    }

    private static String getOrDefault(String key, String defaultValue) {

```

```

String value = null;
try {
    value = System.getenv(key);
}
catch (Exception ex) {
    // ignore
}
if (value == null) {
    value = defaultValue;
}
return System.getProperty(key, value);
}

}
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 */

package org.springframework.boot.test;

import java.io.IOException;
import java.net.URI;
import java.util.Arrays;
import java.util.Collections;
import java.util.HashSet;
import java.util.List;
import java.util.Set;

import org.apache.http.client.config.CookieSpecs;
import org.apache.http.client.config.RequestConfig;
import org.apache.http.client.config.RequestConfig.Builder;
import org.apache.http.client.protocol.HttpClientContext;
import org.apache.http.protocol.HttpContext;
import org.springframework.http.HttpMethod;
import org.springframework.http.HttpRequest;
import org.springframework.http.client.ClientHttpRequestExecution;

```

```

import org.springframework.http.client.ClientHttpRequestInterceptor;
import org.springframework.http.client.ClientHttpResponse;
import org.springframework.http.client.HttpComponentsClientHttpRequestFactory;
import org.springframework.http.client.InterceptingClientHttpRequestFactory;
import org.springframework.util.ClassUtils;
import org.springframework.web.client.DefaultResponseErrorHandler;
import org.springframework.web.client.RestTemplate;

/**
 * Convenient subclass of {@link RestTemplate} that is suitable for integration tests.
 * They are fault tolerant, and optionally can carry Basic authentication headers. If
 * Apache Http Client 4.3.2 or better is available (recommended) it will be used as the
 * client, and by default configured to ignore cookies and redirects.
 *
 * @author Dave Syer
 * @author Phillip Webb
 */
public class TestRestTemplate extends RestTemplate {

    /**
     * Create a new {@link TestRestTemplate} instance.
     * @param httpClientOptions client options to use if the Apache HTTP Client is used
     */
    public TestRestTemplate(HttpClientOption... httpClientOptions) {
        this(null, null, httpClientOptions);
    }

    /**
     * Create a new {@link TestRestTemplate} instance with the specified credentials.
     * @param username the username to use (or {@code null})
     * @param password the password (or {@code null})
     * @param httpClientOptions client options to use if the Apache HTTP Client is used
     */
    public TestRestTemplate(String username, String password,
        HttpClientOption... httpClientOptions) {
        if (ClassUtils.isPresent("org.apache.http.client.config.RequestConfig", null)) {
            setRequestFactory(new CustomHttpComponentsClientHttpRequestFactory(
                httpClientOptions));
        }
        addAuthentication(username, password);
        setErrorHandler(new DefaultResponseErrorHandler() {
            @Override
            public void handleError(ClientHttpResponse response) throws IOException {
            }
        });
    }
}

```

```

private void addAuthentication(String username, String password) {
    if (username == null) {
        return;
    }
    List<ClientHttpRequestInterceptor> interceptors = Collections
        .<ClientHttpRequestInterceptor> singletonList(new BasicAuthorizationInterceptor(
            username, password));
    setRequestFactory(new InterceptingClientHttpRequestFactory(getRequestFactory(),
        interceptors));
}

/**
 * Options used to customize the Apache Http Client if it is used.
 */
public static enum HttpClientOption {

    /**
     * Enable cookies.
     */
    ENABLE_COOKIES,

    /**
     * Enable redirects.
     */
    ENABLE_REDIRECTS

}

private static class BasicAuthorizationInterceptor implements
    ClientHttpRequestInterceptor {

    private final String username;

    private final String password;

    public BasicAuthorizationInterceptor(String username, String password) {
        this.username = username;
        this.password = (password == null ? "" : password);
    }

    @Override
    public ClientHttpResponse intercept(HttpRequest request, byte[] body,
        ClientHttpRequestExecution execution) throws IOException {
        byte[] token = Base64
            .encode((this.username + ":" + this.password).getBytes());
        request.getHeaders().add("Authorization", "Basic " + new String(token));
        return execution.execute(request, body);
    }
}

```

```

}

protected static class CustomHttpComponentsClientHttpRequestFactory extends
    HttpComponentsClientHttpRequestFactory {

    private final String cookieSpec;

    private final boolean enableRedirects;

    public CustomHttpComponentsClientHttpRequestFactory(
        HttpClientOption[] httpClientOptions) {
        Set<HttpClientOption> options = new HashSet<TestRestTemplate.HttpClientOption>(
            Arrays.asList(httpClientOptions));
        this.cookieSpec = (options.contains(HttpClientOption.ENABLE_COOKIES) ? CookieSpecs.STANDARD
            : CookieSpecs.IGNORE_COOKIES);
        this.enableRedirects = options.contains(HttpClientOption.ENABLE_REDIRECTS);
    }

    @Override
    protected HttpContext createHttpContext(HttpMethod httpMethod, URI uri) {
        HttpClientContext context = HttpClientContext.create();
        context.setRequestConfig(getRequestConfig());
        return context;
    }

    protected RequestConfig getRequestConfig() {
        Builder builder = RequestConfig.custom().setCookieSpec(this.cookieSpec)
            .setAuthenticationEnabled(false)
            .setRedirectsEnabled(this.enableRedirects);
        return builder.build();
    }

}

}

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```

```
package org.springframework.boot.json;
```

```
/**
```

```
* Really basic JSON parser for when you have nothing else available. Comes with some
* limitations with respect to the JSON specification (e.g. only supports String values),
* so users will probably prefer to have a library handle things instead (Jackson or Snake
* YAML are supported).
```

```
*
```

```
* @author Dave Syer
```

```
* @see JsonParserFactory
```

```
* @deprecated since 1.2.0 in favor of { @link BasicJsonParser }.
```

```
*/
```

```
@Deprecated
```

```
public class SimpleJsonParser extends BasicJsonParser {
```

```
}
```

```
/*
```

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```
*/
```

```
package org.springframework.boot.json;
```

```
import java.util.ArrayList;
```

```
import java.util.LinkedHashMap;
```

```
import java.util.List;
```

```
import java.util.Map;
```

```
import org.json.simple.parser.JSONParser;
```

```
import org.json.simple.parser.ParseException;
```

```
/**
```

```
* Thin wrapper to adapt { @link org.json.simple.JSONObject } to a { @link JsonParser }.
```



```

*
* @author Dave Syer
* @since 1.2.0
* @see JsonParserFactory
*/
public class JsonSimpleJsonParser implements JsonParser {

    @Override
    public Map<String, Object> parseMap(String json) {
        Map<String, Object> map = new LinkedHashMap<String, Object>();
        try {
            @SuppressWarnings("unchecked")
            Map<String, Object> value = (Map<String, Object>) new JSONParser()
                .parse(json);
            map.putAll(value);
        }
        catch (ParseException ex) {
            throw new IllegalArgumentException("Cannot parse JSON", ex);
        }
        return map;
    }

    @Override
    public List<Object> parseList(String json) {
        List<Object> nested = new ArrayList<Object>();
        try {
            @SuppressWarnings("unchecked")
            List<Object> value = (List<Object>) new JSONParser().parse(json);
            nested.addAll(value);
        }
        catch (ParseException ex) {
            throw new IllegalArgumentException("Cannot parse JSON", ex);
        }
        return nested;
    }
}

```

1.214 spring-boot 1.3.0.RELEASE

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1.215 spring-boot-autoconfigure

1.2.2.RELEASE

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 */
```

```
package org.springframework.boot.autoconfigure.template;
```

```
import org.springframework.boot.context.properties.ConfigurationProperties;
import org.springframework.core.Ordered;
import org.springframework.util.Assert;
import org.springframework.web.servlet.view.AbstractTemplateViewResolver;
```

```
/**
 * Base class for {@link ConfigurationProperties} of a
 * {@link AbstractTemplateViewResolver}.
 *
 * @author Andy Wilkinson
 * @since 1.1.0
 */
public abstract class AbstractTemplateViewResolverProperties extends
    AbstractViewResolverProperties {
```

```
/**
 * Prefix that gets prepended to view names when building a URL.
 */
```

```
private String prefix;
```

```
/**
 * Suffix that gets appended to view names when building a URL.
 */
```

```
private String suffix;
```

```

/**
 * Name of the RequestContext attribute for all views.
 */
private String requestContextAttribute;

/**
 * Set whether all request attributes should be added to the model prior to merging
 * with the template.
 */
private boolean exposeRequestAttributes = false;

/**
 * Set whether all HttpSession attributes should be added to the model prior to
 * merging with the template.
 */
private boolean exposeSessionAttributes = false;

/**
 * Set whether HttpServletRequest attributes are allowed to override (hide) controller
 * generated model attributes of the same name.
 */
private boolean allowRequestOverride = false;

/**
 * Set whether to expose a RequestContext for use by Spring's macro library, under the
 * name "springMacroRequestContext".
 */
private boolean exposeSpringMacroHelpers = true;

protected AbstractTemplateViewResolverProperties(String defaultPrefix,
String defaultSuffix) {
this.prefix = defaultPrefix;
this.suffix = defaultSuffix;
}

public String getPrefix() {
return this.prefix;
}

public void setPrefix(String prefix) {
this.prefix = prefix;
}

public String getSuffix() {
return this.suffix;
}

```

```

public void setSuffix(String suffix) {
    this.suffix = suffix;
}

public String getRequestContextAttribute() {
    return this.requestContextAttribute;
}

public void setRequestContextAttribute(String requestContextAttribute) {
    this.requestContextAttribute = requestContextAttribute;
}

public boolean isExposeRequestAttributes() {
    return this.exposeRequestAttributes;
}

public void setExposeRequestAttributes(boolean exposeRequestAttributes) {
    this.exposeRequestAttributes = exposeRequestAttributes;
}

public boolean isExposeSessionAttributes() {
    return this.exposeSessionAttributes;
}

public void setExposeSessionAttributes(boolean exposeSessionAttributes) {
    this.exposeSessionAttributes = exposeSessionAttributes;
}

public boolean isAllowRequestOverride() {
    return this.allowRequestOverride;
}

public void setAllowRequestOverride(boolean allowRequestOverride) {
    this.allowRequestOverride = allowRequestOverride;
}

public boolean isExposeSpringMacroHelpers() {
    return this.exposeSpringMacroHelpers;
}

public void setExposeSpringMacroHelpers(boolean exposeSpringMacroHelpers) {
    this.exposeSpringMacroHelpers = exposeSpringMacroHelpers;
}

/**
 * Apply the given properties to a {@link AbstractTemplateViewResolver}. Use Object in
 * signature to avoid runtime dependency on MVC, which means that the template engine
 * can be used in a non-web application.

```

```

*
* @param viewResolver the resolver to apply the properties to.
*/
public void applyToViewResolver(Object viewResolver) {

    Assert.isInstanceOf(AbstractTemplateViewResolver.class, viewResolver,
        "ViewResolver is not an instance of AbstractTemplateViewResolver :"+
        + viewResolver);
    AbstractTemplateViewResolver resolver = (AbstractTemplateViewResolver) viewResolver;
    resolver.setPrefix(getPrefix());
    resolver.setSuffix(getSuffix());
    resolver.setCache(isCache());
    resolver.setContentType(getContentType());
    resolver.setViewNames(getViewNames());
    resolver.setExposeRequestAttributes(isExposeRequestAttributes());
    resolver.setAllowRequestOverride(isAllowRequestOverride());
    resolver.setExposeSessionAttributes(isExposeSessionAttributes());
    resolver.setExposeSpringMacroHelpers(isExposeSpringMacroHelpers());
    resolver.setRequestContextAttribute(getRequestContextAttribute());
    // The resolver usually acts as a fallback resolver (e.g. like a
    // InternalResourceViewResolver) so it needs to have low precedence
    resolver.setOrder(Ordered.LOWEST_PRECEDENCE - 5);

}

}
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*/

package org.springframework.boot.autoconfigure.template;

import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;

/**

```

```

* Indicates the availability of view templates for a particular templating engine such as
* FreeMarker or Thymeleaf
*
* @author Andy Wilkinson
* @since 1.1.0
*/
public interface TemplateAvailabilityProvider {

    /**
     * Returns {@code true} if a template is available for the given {@code view}.
     * @param view the view name
     * @param environment the environment
     * @param classLoader the class loader
     * @param resourceLoader the resource loader
     * @return if the template is available
     */
    boolean isTemplateAvailable(String view, Environment environment,
        ClassLoader classLoader, ResourceLoader resourceLoader);

}
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*/

package org.springframework.boot.autoconfigure.template;

import java.io.IOException;

import org.springframework.core.io.Resource;
import org.springframework.core.io.ResourceLoader;
import org.springframework.core.io.support.ResourcePatternResolver;
import org.springframework.util.Assert;

/**
 * Contains a location that templates can be loaded from.
 */

```

```

* @author Phillip Webb
* @since 1.2.1
*/
public class TemplateLocation {

    private final String path;

    public TemplateLocation(String path) {
        Assert.notNull(path, "Path must not be null");
        this.path = path;
    }

    /**
     * Determine if this template location exists using the specified
     * { @link ResourcePatternResolver}.
     * @param resolver the resolver used to test if the location exists
     * @return { @code true} if the location exists.
     */
    public boolean exists(ResourcePatternResolver resolver) {
        Assert.notNull(resolver, "Resolver must not be null");
        if (resolver.getResource(this.path).exists()) {
            return true;
        }
        try {
            if (anyExists(resolver)) {
                return true;
            }
        }
        catch (IOException ex) {
        }
        return false;
    }

    private boolean anyExists(ResourcePatternResolver resolver) throws IOException {
        String searchPath = this.path;
        if (searchPath.startsWith(ResourceLoader.CLASSPATH_URL_PREFIX)) {
            searchPath = ResourcePatternResolver.CLASSPATH_ALL_URL_PREFIX
                + searchPath.substring(ResourceLoader.CLASSPATH_URL_PREFIX.length());
        }
        if (searchPath.startsWith(ResourcePatternResolver.CLASSPATH_ALL_URL_PREFIX)) {
            Resource[] resources = resolver.getResources(searchPath);
            for (Resource resource : resources) {
                if (resource.exists()) {
                    return true;
                }
            }
        }
        return false;
    }
}

```

```

}

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

}
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 */

package org.springframework.boot.autoconfigure.velocity;

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;

/**
 * {@link TemplateAvailabilityProvider} that provides availability information for
 * Velocity view templates
 *
 * @author Andy Wilkinson
 * @since 1.1.0
 */
public class VelocityTemplateAvailabilityProvider implements TemplateAvailabilityProvider {

    @Override
    public boolean isTemplateAvailable(String view, Environment environment,
        ClassLoader classLoader, ResourceLoader resourceLoader) {
        if (ClassUtils.isPresent("org.apache.velocity.app.VelocityEngine", classLoader)) {
            String loaderPath = environment.getProperty(
                "spring.velocity.resourceLoaderPath",
                VelocityProperties.DEFAULT_RESOURCE_LOADER_PATH);
            String prefix = environment.getProperty("spring.velocity.prefix",

```



```

    VelocityProperties.DEFAULT_PREFIX);
    String suffix = environment.getProperty("spring.velocity.suffix",
    VelocityProperties.DEFAULT_SUFFIX);
    return resourceLoader.getResource(loaderPath + prefix + view + suffix)
    .exists();
}
return false;
}

}
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*/

package org.springframework.boot.autoconfigure.web;

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;

/**
* {@link TemplateAvailabilityProvider} that provides availability information for JSP
* view templates
*
* @author Andy Wilkinson
* @since 1.1.0
*/
public class JspTemplateAvailabilityProvider implements TemplateAvailabilityProvider {

    @Override
    public boolean isTemplateAvailable(String view, Environment environment,
    ClassLoader classLoader, ResourceLoader resourceLoader) {
        if (ClassUtils.isPresent("org.apache.jasper.compiler.JspConfig", classLoader)) {
            String prefix = environment.getProperty("spring.view.prefix",
            WebMvcAutoConfiguration.DEFAULT_PREFIX);

```

```

String suffix = environment.getProperty("spring.view.suffix",
    WebMvcAutoConfiguration.DEFAULT_SUFFIX);
return resourceLoader.getResource(prefix + view + suffix).exists();
}
return false;
}

}
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 * limitations under the License.
 */

package org.springframework.boot.autoconfigure.thymeleaf;

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;

/**
 * {@link TemplateAvailabilityProvider} that provides availability information for
 * Thymeleaf view templates
 *
 * @author Andy Wilkinson
 * @since 1.1.0
 */
public class ThymeleafTemplateAvailabilityProvider implements
    TemplateAvailabilityProvider {

    @Override
    public boolean isTemplateAvailable(String view, Environment environment,
        ClassLoader classLoader, ResourceLoader resourceLoader) {
        if (ClassUtils.isPresent("org.thymeleaf.spring4.SpringTemplateEngine",
            classLoader)) {
            String prefix = environment.getProperty("spring.thymeleaf.prefix",
                ThymeleafProperties.DEFAULT_PREFIX);

```

```

String suffix = environment.getProperty("spring.thymeleaf.suffix",
    ThymeleafProperties.DEFAULT_SUFFIX);
return resourceLoader.getResource(prefix + view + suffix).exists();
}
return false;
}

}
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 * limitations under the License.
 */

package org.springframework.boot.autoconfigure.freemarker;

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;

/**
 * {@link TemplateAvailabilityProvider} that provides availability information for
 * FreeMarker view templates
 *
 * @author Andy Wilkinson
 * @since 1.1.0
 */
public class FreeMarkerTemplateAvailabilityProvider implements
    TemplateAvailabilityProvider {

    @Override
    public boolean isTemplateAvailable(String view, Environment environment,
        ClassLoader classLoader, ResourceLoader resourceLoader) {
        if (ClassUtils.isPresent("freemarker.template.Configuration", classLoader)) {
            String loaderPath = environment.getProperty("spring.freemarker.path",
                FreeMarkerProperties.DEFAULT_TEMPLATE_LOADER_PATH);
            String prefix = environment.getProperty("spring.freemarker.prefix",

```

```

    FreeMarkerProperties.DEFAULT_PREFIX);
    String suffix = environment.getProperty("spring.freemarker.suffix",
    FreeMarkerProperties.DEFAULT_SUFFIX);
    return resourceLoader.getResource(loaderPath + prefix + view + suffix)
    .exists();
}
return false;
}

}
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*/

package org.springframework.boot.autoconfigure.groovy.template;

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;

/**
 * {@link TemplateAvailabilityProvider} that provides availability information for Groovy
 * view templates
 *
 * @author Dave Syer
 * @since 1.1.0
 */
public class GroovyTemplateAvailabilityProvider implements TemplateAvailabilityProvider {

    @Override
    public boolean isTemplateAvailable(String view, Environment environment,
    ClassLoader classLoader, ResourceLoader resourceLoader) {
        if (ClassUtils.isPresent("groovy.text.TemplateEngine", classLoader)) {
            String prefix = environment.getProperty("spring.groovy.template.prefix",
            GroovyTemplateProperties.DEFAULT_PREFIX);

```

```

String suffix = environment.getProperty("spring.groovy.template.suffix",
GroovyTemplateProperties.DEFAULT_SUFFIX);
return resourceLoader.getResource(prefix + view + suffix).exists();
}
return false;
}

}
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package org.springframework.boot.autoconfigure.groovy.template;

import groovy.text.markup.MarkupTemplateEngine;
import groovy.text.markup.TemplateConfiguration;
import groovy.text.markup.TemplateResolver;

import java.io.IOException;
import java.net.URL;

import org.springframework.context.i18n.LocaleContextHolder;
import org.springframework.web.servlet.view.groovy.GroovyMarkupConfigurer;
import org.springframework.web.servlet.view.groovy.GroovyMarkupViewResolver;

/**
* A custom {@link groovy.text.markup.TemplateResolver} which resolves
* templates using the locale found in the thread locale. This resolver ignores the
* template engine configuration locale.
*
* @author Cdric Champeau
* @since 1.1.0
* @deprecated since 1.2 in favor of Spring 4.1's {@link GroovyMarkupViewResolver} and
* {@link GroovyMarkupConfigurer}.
*/
@Deprecated
public class GroovyTemplateResolver implements TemplateResolver {

```

```

private ClassLoader templateClassLoader;

@Override
public void configure(final ClassLoader templateClassLoader,
    final TemplateConfiguration configuration) {
    this.templateClassLoader = templateClassLoader;
}

@Override
public URL resolveTemplate(final String templatePath) throws IOException {
    MarkupTemplateEngine.TemplateResource templateResource = MarkupTemplateEngine.TemplateResource
        .parse(templatePath);
    URL resource = this.templateClassLoader.getResource(templateResource.withLocale(
        LocaleContextHolder.getLocale().toString().replace("-", "_")).toString());
    if (resource == null) {
        // no resource found with the default locale, try without any locale
        resource = this.templateClassLoader.getResource(templateResource.withLocale(
            null).toString());
    }
    if (resource == null) {
        throw new IOException("Unable to load template:" + templatePath);
    }
    return resource;
}

}
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 */

package org.springframework.boot.autoconfigure.groovy.template;

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

```

```

import org.springframework.boot.autoconfigure.template.AbstractViewResolverProperties;
import org.springframework.boot.context.properties.ConfigurationProperties;

/**
 * {@link ConfigurationProperties} for configuring Groovy templates.
 *
 * @author Dave Syer
 * @since 1.1.0
 */
@ConfigurationProperties(prefix = "spring.groovy.template", ignoreUnknownFields = false)
public class GroovyTemplateProperties extends AbstractViewResolverProperties {

    public static final String DEFAULT_PREFIX = "classpath:/templates/";

    public static final String DEFAULT_SUFFIX = ".tpl";

    /**
     * Prefix that gets prepended to view names when building a URL.
     */
    private String prefix = DEFAULT_PREFIX;

    /**
     * Suffix that gets appended to view names when building a URL.
     */
    private String suffix = DEFAULT_SUFFIX;

    /**
     * Configuration to pass to TemplateConfiguration.
     */
    private Map<String, Object> configuration = new HashMap<String, Object>();

    public String getPrefix() {
        return this.prefix;
    }

    public void setPrefix(String prefix) {
        this.prefix = prefix;
    }

    public String getSuffix() {
        return this.suffix;
    }

    public void setSuffix(String suffix) {
        this.suffix = suffix;
    }

    public void setConfiguration(Map<String, Object> configuration) {

```

```

    this.configuration = configuration;
}

public Map<String, Object> getConfiguration() {
    return this.configuration;
}

}
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package org.springframework.boot.autoconfigure.groovy.template;

import groovy.text.markup.MarkupTemplateEngine;

import java.security.CodeSource;
import java.security.ProtectionDomain;

import javax.annotation.PostConstruct;
import javax.servlet.Servlet;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.autoconfigure.AutoConfigureAfter;
import org.springframework.boot.autoconfigure.condition.ConditionalOnClass;
import org.springframework.boot.autoconfigure.condition.ConditionalOnMissingBean;
import org.springframework.boot.autoconfigure.condition.ConditionalOnProperty;
import org.springframework.boot.autoconfigure.condition.ConditionalOnWebApplication;
import org.springframework.boot.autoconfigure.template.TemplateLocation;
import org.springframework.boot.autoconfigure.web.WebMvcAutoConfiguration;
import org.springframework.boot.context.properties.ConfigurationProperties;
import org.springframework.boot.context.properties.EnableConfigurationProperties;
import org.springframework.context.ApplicationContext;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.context.i18n.LocaleContextHolder;

```



```

import org.springframework.core.Ordered;
import org.springframework.util.Assert;
import org.springframework.web.servlet.view.UrlBasedViewResolver;
import org.springframework.web.servlet.view.groovy.GroovyMarkupConfig;
import org.springframework.web.servlet.view.groovy.GroovyMarkupConfigurer;
import org.springframework.web.servlet.view.groovy.GroovyMarkupViewResolver;

/**
 * Autoconfiguration support for Groovy templates in MVC. By default creates a
 * {@link MarkupTemplateEngine} configured from {@link GroovyTemplateProperties}, but you
 * can override that by providing your own {@link GroovyMarkupConfig} or even a
 * {@link MarkupTemplateEngine} of a different type.
 *
 * @author Dave Syer
 * @author Andy Wilkinson
 * @author Brian Clozel
 * @since 1.1.0
 */
@Configuration
@ConditionalOnClass(MarkupTemplateEngine.class)
@AutoConfigureAfter(WebMvcAutoConfiguration.class)
@EnableConfigurationProperties(GroovyTemplateProperties.class)
public class GroovyTemplateAutoConfiguration {

    @Configuration
    @ConditionalOnClass(GroovyMarkupConfigurer.class)
    public static class GroovyMarkupConfiguration {

        @Autowired
        private ApplicationContext applicationContext;

        @Autowired
        private GroovyTemplateProperties properties;

        @Autowired(required = false)
        private MarkupTemplateEngine templateEngine;

        @PostConstruct
        public void checkTemplateLocationExists() {
            if (this.properties.isCheckTemplateLocation() && !isUsingGroovyAllJar()) {
                TemplateLocation location = new TemplateLocation(
                    this.properties.getPrefix());
                Assert.state(location.exists(this.applicationContext),
                    "Cannot find template location: " + location
                    + " (please add some templates, check your Groovy "
                    + "configuration, or set spring.groovy.template."
                    + "check-template-location=false)");
            }
        }
    }
}

```

```

}

/**
 * MarkupTemplateEngine could be loaded from groovy-templates or groovy-all.
 * Unfortunately it's quite common for people to use groovy-all and not actually
 * need templating support. This method check attempts to check the source jar so
 * that we can skip the {@code /template} folder check for such cases.
 * @return true if the groovy-all jar is used
 */
private boolean isUsingGroovyAllJar() {
    try {
        ProtectionDomain domain = MarkupTemplateEngine.class
            .getProtectionDomain();
        CodeSource codeSource = domain.getCodeSource();
        if (codeSource != null
            && codeSource.getLocation().toString().contains("-all")) {
            return true;
        }
    }
    catch (Exception ex) {
    }
    return false;
}

@Bean
@ConditionalOnMissingBean(GroovyMarkupConfig.class)
@ConfigurationProperties(prefix = "spring.groovy.template.configuration")
public GroovyMarkupConfigurer groovyMarkupConfigurer() {
    GroovyMarkupConfigurer configurer = new GroovyMarkupConfigurer();
    configurer.setResourceLoaderPath(this.properties.getPrefix());
    configurer.setCacheTemplates(this.properties.isCache());
    if (this.templateEngine != null) {
        configurer.setTemplateEngine(this.templateEngine);
    }
    return configurer;
}

}

@Configuration
@ConditionalOnClass({ Servlet.class, LocaleContextHolder.class,
    UrlBasedViewResolver.class })
@ConditionalOnWebApplication
@ConditionalOnProperty(name = "spring.groovy.template.enabled", matchIfMissing = true)
public static class GroovyWebConfiguration {

    @Autowired
    private GroovyTemplateProperties properties;

```

```

@Bean
@ConditionalOnMissingBean(name = "groovyMarkupViewResolver")
public GroovyMarkupViewResolver groovyMarkupViewResolver() {
    GroovyMarkupViewResolver resolver = new GroovyMarkupViewResolver();
    configureViewResolver(resolver);
    return resolver;
}

private void configureViewResolver(UrlBasedViewResolver resolver) {
    resolver.setSuffix(this.properties.getSuffix());
    resolver.setCache(this.properties.isCache());
    resolver.setContentType(this.properties.getContentType());
    resolver.setViewNames(this.properties.getViewNames());
    resolver.setRequestContextAttribute("spring");
    // This resolver acts as a fallback resolver (e.g. like a
    // InternalResourceViewResolver) so it needs to have low precedence
    resolver.setOrder(Ordered.LOWEST_PRECEDENCE - 6);
}

}

}

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 */

package org.springframework.boot.autoconfigure.mustache;

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

import org.springframework.context.ResourceLoaderAware;
import org.springframework.core.io.DefaultResourceLoader;
import org.springframework.core.io.Resource;
import org.springframework.core.io.ResourceLoader;

```

```

import com.samskivert.mustache.Mustache;
import com.samskivert.mustache.Mustache.TemplateLoader;

/**
 * Mustache TemplateLoader implementation that uses a prefix, suffix and the Spring
 * Resource abstraction to load a template from a file, classpath, URL etc. A
 * TemplateLoader is needed in the Compiler when you want to render partials (i.e.
 * tiles-like fetatures).
 *
 * @author Dave Syer
 * @since 1.2.2
 * @see Mustache
 * @see Resource
 */
public class MustacheResourceTemplateLoader implements TemplateLoader,
    ResourceLoaderAware {

    private String prefix = "";

    private String suffix = "";

    private String charSet = "UTF-8";

    private ResourceLoader resourceLoader = new DefaultResourceLoader();

    public MustacheResourceTemplateLoader() {
    }

    public MustacheResourceTemplateLoader(String prefix, String suffix) {
        super();
        this.prefix = prefix;
        this.suffix = suffix;
    }

    /**
     * @param charSet the charSet to set
     */
    public void setCharset(String charSet) {
        this.charSet = charSet;
    }

    /**
     * @param resourceLoader the resourceLoader to set
     */
    @Override
    public void setResourceLoader(ResourceLoader resourceLoader) {
        this.resourceLoader = resourceLoader;
    }

```

```

}

@Override
public Reader getTemplate(String name) throws Exception {
    return new InputStreamReader(this.resourceLoader.getResource(
        this.prefix + name + this.suffix).getInputStream(), this.charSet);
}

}

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 */

package org.springframework.boot.autoconfigure.mustache;

import org.springframework.boot.autoconfigure.template.TemplateAvailabilityProvider;
import org.springframework.core.env.Environment;
import org.springframework.core.io.ResourceLoader;
import org.springframework.util.ClassUtils;

/**
 * {@link TemplateAvailabilityProvider} that provides availability information for
 * Mustache view templates
 *
 * @author Dave Syer
 * @since 1.2.2
 */
public class MustacheTemplateAvailabilityProvider implements TemplateAvailabilityProvider {

    @Override
    public boolean isTemplateAvailable(String view, Environment environment,
        ClassLoader classLoader, ResourceLoader resourceLoader) {
        if (ClassUtils.isPresent("com.samskivert.mustache.Template", classLoader)) {
            String prefix = environment.getProperty("spring.mustache.prefix",
                MustacheProperties.DEFAULT_PREFIX);
            String suffix = environment.getProperty("spring.mustache.suffix",

```

```
    MustacheProperties.DEFAULT_SUFFIX);
return resourceLoader.getResource(prefix + view + suffix).exists();
}
return false;
}
}
```

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1.243 tomcat-embed-el 8.0.23

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1.245 tomcat-embed-websocket 8.0.23

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1.246 WebSocket server API 1.0

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