

PROJECTS

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Java Util Logging - Customizing log format

[Last Updated: May 25, 2017]

By default Java Util logging (JUL) uses following configurations (JDK 8):

```
handlers= java.util.logging.ConsoleHandler
.level= INFO
java.util.logging.ConsoleHandler.level = INFO
java.util.logging.ConsoleHandler.formatter = java.util.logging.SimpleFormatter
```

The complete default configuration file can be found at the JDK/JRE installation directory: JAVA_HOME/jre/lib/logging.properties.

The default handler, ConsoleHandler , sends log records to System.err (the available command line console). This handler, by default uses SimpleFormatter to format logs. In this tutorial, we will learn how to modify the default log format.

The default formatter, SimpleFormatter, formats the output by using following method call:

```
String.format(format, date, source, logger, level, message, thrown);
```

The first argument 'format' can be customized in the logging.properties or by a command line option or can be set programmatically. The good thing, we don't have to learn new formatting specifiers here, as java.util.Formatter specification is fully supported.

Using logging.properties

Let's add a new line to logging.properties with property key java.util.logging.SimpleFormatter.format to specify our desire log format.

src/main/resources/logging.properties

```
handlers= java.util.logging.ConsoleHandler
.level= INFO
java.util.logging.ConsoleHandler.level = INFO
java.util.logging.ConsoleHandler.formatter = java.util.logging.SimpleFormatter
java.util.logging.SimpleFormatter.format=[%1$tF %1$tT] [%4$-7s] %5$s %n
```

```
public static void main(String[] args) {
    System.out.println("-- main method starts --");
    LOGGER.info("in MyClass");
    LOGGER.warning("a test warning");
}
```

Output

```
-- main method starts --
[2017-05-18 14:02:49] [INFO ] in MyClass
[2017-05-18 14:02:49] [WARNING] a test warning
```

Check this out to quickly learn different time formatting options



Using system property

Output

```
-- main method starts --
[2017-05-18 14:03:41] [INFO ] in MyClass2
[2017-05-18 14:03:41] [WARNING] a test warning
```

Programmatically setting format

Here we have to set our own ConsoleHandler with customized SimpleFormatter instead of customizing the default one.

```
package com.logicbig.example;
import java.util.Date;
import java.util.logging.ConsoleHandler;
import java.util.logging.LogRecord;
import java.util.logging.Logger;
```

```
import java.util.logging.SimpleFormatter;
public class MyClass3 {
 private static Logger LOGGER = null;
  static {
      Logger mainLogger = Logger.getLogger("com.logicbig");
      mainLogger.setUseParentHandlers(false);
      ConsoleHandler handler = new ConsoleHandler();
      handler.setFormatter(new SimpleFormatter() {
          private static final String format = "[%1$tF %1$tT] [%2$-7s] %3$s %n";
          @Override
          public synchronized String format(LogRecord lr) {
              return String.format(format,
                      new Date(lr.getMillis()),
                      lr.getLevel().getLocalizedName(),
                      lr.getMessage()
              );
          }
      });
      mainLogger.addHandler(handler);
      LOGGER = Logger.getLogger(MyClass3.class.getName());
 }
  public static void main(String[] args) {
      System.out.println("-- main method starts --");
      LOGGER.info("in MyClass3");
      LOGGER.warning("a test warning");
 }
}
```

Output

```
-- main method starts --
[2017-05-18 14:04:07] [INFO ] in MyClass3
[2017-05-18 14:04:07] [WARNING] a test warning
```



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Example Project

Dependencies and Technologies Used:

- JDK 1.8
- Maven 3.3.9

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Spring - Arrays a

```
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customizing-default-log-format
                                               mainLogger.setUseParentHandlers(false);
                                               ConsoleHandler handler = new ConsoleHandler();
 main
                                               handler.setFormatter(new SimpleFormatter() {
                                                   private static final String format = "[%1$tF %1$tT] [%2$-7s] %3$s %n";
  java
   com
                                                   @Override
    logicbig
                                                   public synchronized String format(LogRecord lr) {
     example
                                                       return String.format(format,
      MyClass.java
                                                                new Date(lr.getMillis()),
      MyClass2.java
                                                                lr.getLevel().getLocalizedName(),
      MyClass3.java
                                                                lr.getMessage()
  resources
                                                       );
                                                   }
   logging.properties
                                               });
pom.xml
                                               mainLogger.addHandler(handler);
                                               LOGGER = Logger.getLogger(MyClass3.class.getName());
                                           public static void main(String[] args) {
                                               System.out.println("-- main method starts --");
                                               LOGGER.info("in MyClass3");
                                               LOGGER.warning("a test warning");
                                       }
                                                                                     G2 satisfaction score:
                                                   G2 reviewers agree:
                                                                                     Dynatrace
                                    dynatrace
                                                    Dynatrace outperforms Datadog
```

Project Structure

```
customizing-default-log-format src
main
java
com
logicbig
example
MyClass.java
MyClass2.java
```

```
MyClass3.java
resources
logging.properties
pom.xml
```

```
<?xml version="1.0" encoding="UTF-8"?>
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
          xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
     <modelVersion>4.0.0</modelVersion>
     <groupId>com.logicbig.example
     <artifactId>customizing-default-log-format</artifactId>
     <version>1.0-SNAPSHOT
     <build>
         <plugins>
            <plugin>
                <groupId>org.apache.maven.plugins
                <artifactId>maven-compiler-plugin</artifactId>
                <version>3.3</version>
                <configuration>
                    <source>1.8</source>
                    <target>1.8</target>
                </configuration>
            </plugin>
         </plugins>
     </build>
  </project>
(UP)
```

```
package com.logicbig.example;
import java.io.IOException;
import java.io.InputStream;
import java.util.logging.LogManager;
import java.util.logging.Logger;
public class MyClass {
   private static Logger LOGGER = null;
    static {
        InputStream stream = MyClass.class.getClassLoader().
                getResourceAsStream("logging.properties");
        trv {
            LogManager.getLogManager().readConfiguration(stream);
            LOGGER= Logger.getLogger(MyClass.class.getName());
        } catch (IOException e) {
            e.printStackTrace();
        }
    public static void main(String[] args) {
        System.out.println("-- main method starts --");
```

LOGGER.info("in MyClass");
LOGGER.warning("a test warning");

}

package com.logicbig.example;

import java.util.Date;

(UP)

```
package com.logicbig.example;
  import java.util.logging.Logger;
  public class MyClass2 {
      private static Logger LOGGER = null;
      static {
          System.setProperty("java.util.logging.SimpleFormatter.format",
                  "[%1$tF %1$tT] [%4$-7s] %5$s %n");
          LOGGER = Logger.getLogger(MyClass2.class.getName());
      }
      public static void main(String[] args) {
          System.out.println("-- main method starts --");
          LOGGER.info("in MyClass2");
          LOGGER.warning("a test warning");
      }
  }
UP
```

```
import java.util.logging.ConsoleHandler;
import java.util.logging.LogRecord;
import java.util.logging.Logger;
import java.util.logging.SimpleFormatter;
public class MyClass3 {
   private static Logger LOGGER = null;
   static {
       Logger mainLogger = Logger.getLogger("com.logicbig");
       mainLogger.setUseParentHandlers(false);
       ConsoleHandler handler = new ConsoleHandler();
       handler.setFormatter(new SimpleFormatter() {
            private static final String format = "[%1$tF %1$tT] [%2$-7s] %3$s %n";
            @Override
            public synchronized String format(LogRecord lr) {
               return String.format(format,
                        new Date(lr.getMillis()),
                        lr.getLevel().getLocalizedName(),
                        lr.getMessage()
               );
            }
       });
```

System.out.println("-- main method starts --");

LOGGER = Logger.getLogger(MyClass3.class.getName());

mainLogger.addHandler(handler);

public static void main(String[] args) {

LOGGER.info("in MyClass3");

```
LOGGER.warning("a test warning");
}
```



```
handlers= java.util.logging.ConsoleHandler
.level= INFO
java.util.logging.ConsoleHandler.level = INFO
java.util.logging.ConsoleHandler.formatter = java.util.logging.SimpleFormatter
#Setting a custom log format
java.util.logging.SimpleFormatter.format=[%1$tF %1$tT] [%4$-7s] %5$s %n
```

See Also

Java String Formatting	Log Levels
Loading logging.properties	Creating a custom log Handler
Getting started with Java Logging	Enabling JDK Internal Logging

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Spring - Injecting beans Into Arrays and Lists, ordering with @Ordered annotation	Spring - Implementing

annotation

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