

Apache Commons 工具包

作者: [flowaters](#)

原文链接: <https://ld246.com/article/1499568211331>

来源网站: [链滴](#)

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<p style="font-family:Helvetica, Tahoma, Arial, sans-serif;font-size:14px;background-color:#FFFFF;">
 Apache Commons是一个工具包集合，在JDK5及之前的年代中是java开发必备的，很多成为了行业标准。现在有一些功能已经增加到了JDK 7, JDK 8中，另一些功能包仍在被大量使用。
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<p style="font-family:Helvetica, Tahoma, Arial, sans-serif;font-size:14px;background-color:#FFFFF;">

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<p style="font-family:Helvetica, Tahoma, Arial, sans-serif;font-size:14px;background-color:#FFFFF;">

 <table border="0" style="background-color:#FFFFFF; border-collapse:separate; width:1088px; color:#333333; font-family:" ; font-size:12px;">
 <tbody>
 <tr>
 <th style="text-align:left; vertical-align:top; background-color:#F9F9F9;">
 Components
 </th>
 <th style="text-align:left; vertical-align:top; background-color:#F9F9F9;">
 Description
 </th>
 <th style="text-align:left; vertical-align:top; background-color:#F9F9F9;">
 Latest Version
 </th>
 <th style="text-align:left; vertical-align:top; background-color:#F9F9F9;">
 Released
 </th>
 </tr>
 <tr>
 <td style="vertical-align:top;">
 BCEL
 </td>
 <td style="vertical-align:top;">
 Byte Code Engineering Library - analyze, create, and manipulate Java class files
 </td>
 <td style="vertical-align:top;">
 6.0
 </td>
 <td style="vertical-align:top;">
 2016-07-14
 </td>
 </tr>
 <tr>
 <td style="vertical-align:top; background-color:#F9F9F9;">
 BeanUtils
 </td>
 <td style="vertical-align:top; background-color:#F9F9F9;">
 Easy-to-use wrappers around the Java reflection and introspection APIs.
 </td>
 <td style="vertical-align:top; background-color:#F9F9F9;">

1.9.3		
	</td>	
	<td style="vertical-align:top;background-color:#F9F9F9;">	
	2016-09-26	
	</td>	
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	<tr>	
	<td style="vertical-align:top;">	
	BSF	
	</td>	
	<td style="vertical-align:top;">	
	Bean Scripting Framework - interface to scripting languages, including JSR-223	
	</td>	
	<td style="vertical-align:top;">	
	3.1	
	</td>	
	<td style="vertical-align:top;">	
	2010-06-24	
	</td>	
	</tr>	
	<tr>	
	<td style="vertical-align:top;background-color:#F9F9F9;">	
	Chain	
	</td>	
	<td style="vertical-align:top;background-color:#F9F9F9;">	
	<i>Chain of Responsibility</i> pattern implemention.	
	</td>	
	<td style="vertical-align:top;background-color:#F9F9F9;">	
	1.2	
	</td>	
	<td style="vertical-align:top;background-color:#F9F9F9;">	
	2008-06-02	
	</td>	
	</tr>	
	<tr>	
	<td style="vertical-align:top;">	
	CLI	
	</td>	
	<td style="vertical-align:top;">	
	Command Line arguments parser.	
	</td>	
	<td style="vertical-align:top;">	
	1.4	
	</td>	
	<td style="vertical-align:top;">	
	2017-03-09	
	</td>	
	</tr>	
	<tr>	
	<td style="vertical-align:top;background-color:#F9F9F9;">	
	Codec	
	</td>	
	<td style="vertical-align:top;background-color:#F9F9F9;">	
	General encoding/decoding algorithms (for example phonetic, base64, URL).	

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</td>
<td style="vertical-align:top;background-color:#F9F9F9;">
    1.10
</td>
<td style="vertical-align:top;background-color:#F9F9F9;">
    2014-11-09
</td>
</tr>
<tr>
    <td style="vertical-align:top;">
        <a href="http://commons.apache.org/proper/commons-collections/">Collection
</a>
    </td>
    <td style="vertical-align:top;">
        Extends or augments the Java Collections Framework.
    </td>
    <td style="vertical-align:top;">
        4.1
    </td>
    <td style="vertical-align:top;">
        2015-11-27
    </td>
</tr>
<tr>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        <a href="http://commons.apache.org/proper/commons-compress/">Compress<
a>
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        Defines an API for working with tar, zip and bzip2 files.
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        1.14
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        2017-05-14
    </td>
</tr>
<tr>
    <td style="vertical-align:top;">
        <a href="http://commons.apache.org/proper/commons-configuration/">Config
ration</a>
    </td>
    <td style="vertical-align:top;">
        Reading of configuration/preferences files in various formats.
    </td>
    <td style="vertical-align:top;">
        2.1.1
    </td>
    <td style="vertical-align:top;">
        2017-02-05
    </td>
</tr>
<tr>
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<td style="vertical-align:top;background-color:#F9F9F9;">
    <a href="http://commons.apache.org/proper/commons-crypto/">Crypto</a>
</td>
<td style="vertical-align:top;background-color:#F9F9F9;">
    A cryptographic library optimized with AES-NI wrapping Openssl or JCE algorithm
implementations.
</td>
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    1.0.0
</td>
<td style="vertical-align:top;background-color:#F9F9F9;">
    2016-07-22
</td>
</tr>
<tr>
    <td style="vertical-align:top;">
        <a href="http://commons.apache.org/proper/commons-csv/">CSV</a>
    </td>
    <td style="vertical-align:top;">
        Component for reading and writing comma separated value files.
    </td>
    <td style="vertical-align:top;">
        1.4
    </td>
    <td style="vertical-align:top;">
        2016-05-28
    </td>
</tr>
<tr>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        <a href="http://commons.apache.org/proper/commons-daemon/">Daemon</a>
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        Alternative invocation mechanism for unix-daemon-like java code.
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        1.0.15
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        2013-04-03
    </td>
</tr>
<tr>
    <td style="vertical-align:top;">
        <a href="http://commons.apache.org/proper/commons-dbcp/">DBCP</a>
    </td>
    <td style="vertical-align:top;">
        Database connection pooling services.
    </td>
    <td style="vertical-align:top;">
        2.1.1
    </td>
    <td style="vertical-align:top;">
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2015-08-06			
	</td>	</tr>	
<tr>	<td style="vertical-align:top; background-color:#F9F9F9;">	DbUtils	
	</td>		
	<td style="vertical-align:top; background-color:#F9F9F9;">	JDBC helper library.	
	</td>		
	<td style="vertical-align:top; background-color:#F9F9F9;">	1.6	
	</td>		
	<td style="vertical-align:top; background-color:#F9F9F9;">	2014-07-20	
	</td>		
</tr>			
<tr>	<td style="vertical-align:top;">		
	Digester		
	</td>		
	<td style="vertical-align:top;">	XML-to-Java-object mapping utility.	
	</td>		
	<td style="vertical-align:top;">	3.2	
	</td>		
	<td style="vertical-align:top;">	2011-12-13	
	</td>		
</tr>			
<tr>	<td style="vertical-align:top; background-color:#F9F9F9;">		
	Discovery<a>		
a>	</td>		
	<td style="vertical-align:top; background-color:#F9F9F9;">	Tools for locating resources by mapping service/reference names to resource na	
es.	</td>		
	<td style="vertical-align:top; background-color:#F9F9F9;">	0.5	
	</td>		
	<td style="vertical-align:top; background-color:#F9F9F9;">	2011-05-05	
	</td>		
</tr>			
<tr>	<td style="vertical-align:top;">		
	Email		
	</td>		
	<td style="vertical-align:top;">	Library for sending e-mail from Java.	

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</td>
<td style="vertical-align:top;">
    1.4
</td>
<td style="vertical-align:top;">
    2015-05-23
</td>
</tr>
<tr>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        <a href="http://commons.apache.org/proper/commons-exec/">Exec</a>
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        API for dealing with external process execution and environment management in
ava.
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        1.3
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        2014-11-06
    </td>
</tr>
<tr>
    <td style="vertical-align:top;">
        <a href="http://commons.apache.org/proper/commons-fileupload/">FileUploa
</a>
    </td>
    <td style="vertical-align:top;">
        File upload capability for your servlets and web applications.
    </td>
    <td style="vertical-align:top;">
        1.3.3
    </td>
    <td style="vertical-align:top;">
        2017-06-13
    </td>
</tr>
<tr>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        <a href="http://commons.apache.org/proper/commons-functor/">Functor</a>
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        A functor is a function that can be manipulated as an object, or an object repre
ting a single, generic function.
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        1.0
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        2011-??-??
    </td>
</tr>
<tr>
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<td style="vertical-align:top;">
    <a href="http://commons.apache.org/proper/commons-imaging/">Imaging (previously called Sanselan)</a>
</td>
<td style="vertical-align:top;">
    A pure-Java image library.
</td>
<td style="vertical-align:top;">
    0.97-incubator
</td>
<td style="vertical-align:top;">
    2009-02-20
</td>
</tr>
<tr>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        <a href="http://commons.apache.org/proper/commons-io/">IO</a>
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        Collection of I/O utilities.
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        2.5
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        2016-04-21
    </td>
</tr>
<tr>
    <td style="vertical-align:top;">
        <a href="http://commons.apache.org/proper/commons-jci/">JCI</a>
    </td>
    <td style="vertical-align:top;">
        Java Compiler Interface
    </td>
    <td style="vertical-align:top;">
        1.1
    </td>
    <td style="vertical-align:top;">
        2013-10-14
    </td>
</tr>
<tr>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        <a href="http://commons.apache.org/proper/commons-jcs/">JCS</a>
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        Java Caching System
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        2.0
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        2016-12-30
    </td>
</tr>
```

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</td>
</tr>
<tr>
<td style="vertical-align:top;">
    <a href="http://commons.apache.org/proper/commons-jelly/">Jelly</a>
</td>
<td style="vertical-align:top;">
    XML based scripting and processing engine.
</td>
<td style="vertical-align:top;">
    1.0
</td>
<td style="vertical-align:top;">
    2005-06-16
</td>
</tr>
<tr>
<td style="vertical-align:top;background-color:#F9F9F9;">
    <a href="http://commons.apache.org/proper/commons-jexl/">Jexl</a>
</td>
<td style="vertical-align:top;background-color:#F9F9F9;">
    Expression language which extends the Expression Language of the JSTL.
</td>
<td style="vertical-align:top;background-color:#F9F9F9;">
    3.1
</td>
<td style="vertical-align:top;background-color:#F9F9F9;">
    2017-04-14
</td>
</tr>
<tr>
<td style="vertical-align:top;">
    <a href="http://commons.apache.org/proper/commons-jxpath/">JXPath</a>
</td>
<td style="vertical-align:top;">
    Utilities for manipulating Java Beans using the XPath syntax.
</td>
<td style="vertical-align:top;">
    1.3
</td>
<td style="vertical-align:top;">
    2008-08-14
</td>
</tr>
<tr>
<td style="vertical-align:top;background-color:#F9F9F9;">
    <a href="http://commons.apache.org/proper/commons-lang/">Lang</a>
</td>
<td style="vertical-align:top;background-color:#F9F9F9;">
    Provides extra functionality for classes in java.lang.
</td>
<td style="vertical-align:top;background-color:#F9F9F9;">
    3.6
</td>
```

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<td style="vertical-align:top;background-color:#F9F9F9;">
    2017-06-08
</td>
</tr>
<tr>
    <td style="vertical-align:top;">
        <a href="http://commons.apache.org/proper/commons-launcher/">Launcher</
>
    </td>
    <td style="vertical-align:top;">
        Cross platform Java application launcher.
    </td>
    <td style="vertical-align:top;">
        1.1
    </td>
    <td style="vertical-align:top;">
        2004-08-22
    </td>
</tr>
<tr>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        <a href="http://commons.apache.org/proper/commons-logging/">Logging </a>
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        Wrapper around a variety of logging API implementations.
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        1.2
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        2014-07-11
    </td>
</tr>
<tr>
    <td style="vertical-align:top;">
        <a href="http://commons.apache.org/proper/commons-math/">Math </a>
    </td>
    <td style="vertical-align:top;">
        Lightweight, self-contained mathematics and statistics components.
    </td>
    <td style="vertical-align:top;">
        3.5
    </td>
    <td style="vertical-align:top;">
        2015-04-17
    </td>
</tr>
<tr>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        <a href="http://commons.apache.org/proper/commons-net/">Net </a>
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        Collection of network utilities and protocol implementations.
    </td>
```

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<td style="vertical-align:top;background-color:#F9F9F9;">
    3.6
</td>
<td style="vertical-align:top;background-color:#F9F9F9;">
    2017-02-15
</td>
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<tr>
    <td style="vertical-align:top;">
        <a href="http://commons.apache.org/proper/commons-numbers/">Numbers</a>
    </td>
    <td style="vertical-align:top;">
        Number types (complex, quaternion, fraction) and utilities (arrays, combinatorics).
    </td>
    <td style="vertical-align:top;">
        1.0
    </td>
    <td style="vertical-align:top;">
        2017-??-??
    </td>
</tr>
<tr>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        <a href="http://commons.apache.org/proper/commons-ognl/">OGNL</a>
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        An Object-Graph Navigation Language
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        4.0
    </td>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        2013-??-??
    </td>
</tr>
<tr>
    <td style="vertical-align:top;">
        <a href="http://commons.apache.org/proper/commons-pool/">Pool</a>
    </td>
    <td style="vertical-align:top;">
        Generic object pooling component.
    </td>
    <td style="vertical-align:top;">
        2.4.2
    </td>
    <td style="vertical-align:top;">
        2015-08-01
    </td>
</tr>
<tr>
    <td style="vertical-align:top;background-color:#F9F9F9;">
        <a href="http://commons.apache.org/proper/commons-proxy/">Proxy</a>
    </td>
```

Library for creating dynamic proxies.	1.0	2008-02-28
</tr>		
<tr>	RDF	
	Common implementation of RDF 1.1 that could be implemented by systems on the JVM.	
</td>		
<td style="vertical-align:top;">	0.3.0-incubating	
</td>		
<td style="vertical-align:top;">	2016-11-15	
</td>		
</tr>		
<tr>	RNG	
	Implementations of random numbers generators.	
</td>		
<td style="vertical-align:top; background-color:#F9F9F9;">1.0		
</td>		
<td style="vertical-align:top; background-color:#F9F9F9;">2016-12-13		
</td>		
</tr>		
<tr>	SCXML	
	An implementation of the State Chart XML specification aimed at creating and maintaining a Java SCXML engine. It is capable of executing a state machine defined using a SCXML document, and abstracts out the environment interfaces.	
</td>		
<td style="vertical-align:top;">	0.9	
</td>		
<td style="vertical-align:top;">	2008-12-01	

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        </td>
    </tr>
    <tr>
        <td style="vertical-align:top;background-color:#F9F9F9;">
            <a href="http://commons.apache.org/proper/commons-text/">Text</a>
        </td>
        <td style="vertical-align:top;background-color:#F9F9F9;">
            Apache Commons Text is a library focused on algorithms working on strings.
        </td>
        <td style="vertical-align:top;background-color:#F9F9F9;">
            1.1
        </td>
        <td style="vertical-align:top;background-color:#F9F9F9;">
            2017-05-23
        </td>
    </tr>
    <tr>
        <td style="vertical-align:top;">
            <a href="http://commons.apache.org/proper/commons-validator/">Validator</a>
        </td>
        <td style="vertical-align:top;">
            Framework to define validators and validation rules in an xml file.
        </td>
        <td style="vertical-align:top;">
            1.6
        </td>
        <td style="vertical-align:top;">
            2017-02-21
        </td>
    </tr>
    <tr>
        <td style="vertical-align:top;background-color:#F9F9F9;">
            <a href="http://commons.apache.org/proper/commons-vfs/">VFS</a>
        </td>
        <td style="vertical-align:top;background-color:#F9F9F9;">
            Virtual File System component for treating files, FTP, SMB, ZIP and such like as a single logical file system.
        </td>
        <td style="vertical-align:top;background-color:#F9F9F9;">
            2.1
        </td>
        <td style="vertical-align:top;background-color:#F9F9F9;">
            2016-05-12
        </td>
    </tr>
    <tr>
        <td style="vertical-align:top;">
            <a href="http://commons.apache.org/proper/commons-weaver/">Weaver</a>
        </td>
        <td style="vertical-align:top;">
            Provides an easy way to enhance (weave) compiled bytecode.
        </td>
        <td style="vertical-align:top;">

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    1.3
  </td>
  <td style="vertical-align:top;">
    2016-10-18
  </td>
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