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## Welcome to the Apache Commons

The Commons is an Apache project focused on all aspects of reusable Java components.

The Apache Commons project is composed of three parts:

- The Commons Proper A repository of reusable Java components.
- The Commons Sandbox A workspace for Java component development.
- The Commons Dormant A repository of components that are currently inactive.

You may also read our <u>charter</u>, which spells out the goals of the project in greater detail.

### **The Commons Proper**

The Commons Proper is dedicated to one principal goal: creating and maintaining reusable Java components. The Commons Proper is a place for collaboration and sharing, where developers from throughout the Apache community can work together on projects to be shared by the Apache projects and Apache users.

Commons developers will make an effort to ensure that their components have minimal dependencies on other libraries, so that these components can be deployed easily. In addition, Commons components will keep their interfaces as stable as possible, so that Apache users (including other Apache projects) can implement these components without having to worry about changes in the future.

This <u>article</u> gives an overview of (some of) the components which can be found here.

We welcome participation from all that are interested, at all skill levels. Coding, documentation and testing are all critical parts of the software development process. If you are interested in participating in any of these aspects, please join us!

Components	Description	Latest Version	Released
<u>Attributes</u>	Runtime API to metadata attributes such as doclet tags.	2.2	2006-08-03
BCEL	Byte Code Engineering Library - analyze, create, and manipulate Java class files	5.2	2007-06-14
<u>BeanUtils</u>	Easy-to-use wrappers around the Java reflection and introspection APIs.	1.8.3	2010-03-28
<u>Betwixt</u>	Services for mapping JavaBeans to XML documents, and vice versa.	0.8	2006-12-21

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<u>BSF</u>	Bean Scripting Framework - interface to scripting languages, including JSR-223	3.1	2010-24-06
<u>Chain</u>	Chain of Responsibility pattern implemention.	1.2	2008-06-02
<u>CLI</u>	Command Line arguments parser.	1.2	2009-03-19
Codec	General encoding/decoding algorithms (for example phonetic, base64, URL).	1.8	2013-04-28
Collections	Extends or augments the Java Collections Framework.	4.0	2013-11-24
Compress	Defines an API for working with tar, zip and bzip2 files.	1.6	2013-10-26
Configuration	Reading of configuration/preferences files in various formats.	1.10	2013-10-27
CSV	Component for reading and writing comma separated value files.	N/A	N/A
<u>Daemon</u>	Alternative invocation mechanism for unix-daemon-like java code.	1.0.15	2013-03-04
DBCP	Database connection pooling services.	1.4	2010-02-14
<u>DbUtils</u>	JDBC helper library.	1.5	2012-07-20
<u>Digester</u>	XML-to-Java-object mapping utility.	3.2	2011-12-13
Discovery	Tools for locating resources by mapping service/reference names to resource names.	0.5	2011-04-28
<u>EL</u>	Interpreter for the Expression Language defined by the JSP 2.0 specification.	1.0	2003-06-18
<u>Email</u>	Library for sending e-mail from Java.	1.3.2	2013-10-25
Exec	API for dealing with external process execution and environment management in Java.	1.1	2010-10-08
FileUpload	File upload capability for your servlets and web applications.	1.3	2013-03-27
Functor	A functor is a function that can be manipulated as an object, or an object representing a single, generic function.	N/A	N/A
Imaging (previously called Sanselan)	A pure-Java image library.	N/A	N/A
<u>IO</u>	Collection of I/O utilities.	2.4	2012-06-12
<u>JCI</u>	Java Compiler Interface	1.1	2013-10-14
<u>JCS</u>	Java Caching System	1.3	2007-06-05

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<u>Jelly</u>	XML based scripting and processing engine.	1.0	2005-06-16
<u>Jexl</u>	Expression language which extends the Expression Language of the JSTL.	2.1.1	2011-12-24
<u>JXPath</u>	Utilities for manipulating Java Beans using the XPath syntax.	1.3	2008-08-14
Lang	Provides extra functionality for classes in java.lang.	3.1	2011-11-14
<u>Launcher</u>	Cross platform Java application launcher.	1.1	2004-08-22
Logging	Wrapper around a variety of logging API implementations.	1.1.3	2013-03-21
Math	Lightweight, self-contained mathematics and statistics components.	3.2	2013-04-06
Modeler	Mechanisms to create Model MBeans compatible with JMX specification.	2.0.1	2007-06-25
<u>Net</u>	Collection of network utilities and protocol implementations.	3.3	2013-06-12
<u>OGNL</u>	An Object-Graph Navigation Language	N/A	N/A
OGNL Pool	An Object-Graph Navigation Language Generic object pooling component.	N/A 2.0	N/A 2013-11-11
Pool	Generic object pooling component.  Smaller, faster and easier to work with	2.0	2013-11-11
Pool Primitives	Generic object pooling component.  Smaller, faster and easier to work with types supporting Java primitive types.	2.0 1.0	2013-11-11 2003-11-05
Pool Primitives Proxy	Generic object pooling component.  Smaller, faster and easier to work with types supporting Java primitive types.  Library for creating dynamic proxies.  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	2.0 1.0	2013-11-11 2003-11-05 2008-02-28
Pool Primitives  Proxy SCXML	Generic object pooling component.  Smaller, faster and easier to work with types supporting Java primitive types.  Library for creating dynamic proxies.  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.  Framework to define validators and	2.0 1.0 1.0 0.9	2013-11-11 2003-11-05 2008-02-28 2008-12-01

# **The Commons Sandbox**

This project also contains a workspace that is open to all Apache committers. It's a place to try out new ideas and prepare for inclusion into the Commons portion of the project or into another Apache project. Users are free to experiment with the components developed in the sandbox, but sandbox components will not necessarily be maintained, particularly in their current state.

See <a href="here">here</a> for Sandbox components.

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# The Commons Dormant

These are Commons Sandbox components that have been deemed inactive since they have seen little recent development activity. If you wish to use any of these components, you must build them yourselves. It is best to assume that these components will not be released in the near future.

http://commons.apache.org/

See <u>here</u> for Dormant components.

## Where do I get releases?

The individual components have independent releases. Some releases for some components may be available only through the mirroring system. Some releases for some components (typically the older ones) are not available through the mirroring system.

See the individual websites listed above for the specific downloads, or use the Releases menu option.

### How do I contribute, give feedback, fix bugs and so on?

The Commons project really needs and appreciates any contributions, including documentation help, source code and feedback.

- Discussion occurs on the Commons mailing list.
- We have an IRC channel on freenode join #apache-commons.
- Access to the SVN commons/proper repository is available both online and with a svn client .
- Access to the SVN commons/sandbox repository is available both online and with a svn client .
- Access to the SVN commons/dormant repository is available both online and with a svn client

## **Related Components @Apache**

The Commons HttpClient project used to be a part of Commons, but is now part of Apache HttpComponents - see Jakarta Commons HttpClient

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