Home

We're the Commons community, dedicated to creating reusable library components in Java. Apache Commons mainly uses Git as the version control system, and Commons components are available as read-only mirrors on Github.

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Components

Components are subprojects of Commons. Every component provides, and maintains one or more jar files, building a library. We distinguish components by maturity status: **Proper** (Mature, Releases available), **Sandbox** (Immature, never released), and **Dormant** (No longer active, unmaintained).

Name	Status	Description
BeanUtils	Proper	Utilities for manipulating java beans, including copying properties, cloning, invoking methods and type conversion.
Betwixt	Dormant	Services for mapping JavaBeans to XML documents, and vice versa.
Chain	Proper	A "Chain of Responsibility" pattern implemention for organizing complex processing flows.
CLI	Proper	Command Line Interface library for processing command-line options and arguments.
Codec	Proper	General encoding/decoding algorithms. Includes some phonetic encoders, Hex, Base64, and a URL encoder.
Collections	Proper	Builds upon the Java Collections Framework of List, Set and Map to provide many more implementations, new collections and abstract base classes.
Configuration	Proper	Tools to assist in the reading of configuration/preferences files in various formats
Compress	Proper	Defines an API for working with archives and compression formats including but not limited to: tar,gz, ar, cpio, zip and bzip2 files
Daemon	Proper	Run (java) applications as windows service or UNIX daemon.
DBCP	Proper	Database connection pooling services.
Digester	Proper	XML-to-Java-object mapping utility.
Email	Proper	Simplify email sending with Java. Built on top of the Java Mail API.
Exec	Proper	A Java library to execute external processes from within a Java application.
FileUpload	Proper	Makes it easy to add robust, high-performance, file upload capability to your servlets and web applications
Functor	Proper	A functor is a function that can be manipulated as an object, or an object representing a single, generic function.
IO	Proper	Utility classes, stream implementations, file filters and endian classes to assist in input/output operations.
JCI	Proper	Java Compiler Interface
JCS	Proper	Java Caching System
JEXL	Proper	A velocity-esque expression interpreter
Jelly	Proper	An XML-based scripting language.
JXPath	Proper	Facilities for applying xpath expressions to graphs of objects of all kinds: Java beans, Maps, Servlet contexts, DOM etc.

Lang	Proper	Common utilities that should be provided by the JDK, including String handling, Object and Date helpers, nested exceptions and enumerated types.
Launcher	Dormant	A cross platform Java application launcher which eliminates the need for a batch or shell script to launch a Java class.
Logging	Proper	A thin, modular bridging API with out-of-the-box support for the most well known logging systems.
Math	Proper	Lightweight, self-contained mathematics and statistics components.
Modeler	Dormant	Mechanisms to create Model MBeans compatible with JMX specification.
Net	Proper	A collection of classes implementing various network protocols such as FTP, NNTP, SMTP, Telnet.
Pool	Proper	A generic object pooling interface, a toolkit for creating modular object pools and several general purpose pool implementations.
Proxy	Proper	A Java library for dynamic proxying
SCXML	Proper	A Java implementation of State Chart XML (SCXML), currently a W3C Working Draft.
Transaction	Dormant	Utility classes commonly used in transactional programming
Validator	Proper	Components for user input validation
VFS	Proper	Extensible framework to acces various filesystems through an unified api with implementations for e.g. sftp, smb, http, zip, ...

Elsewhere at Apache ...

The following components were part of Apache Commons but have moved elsewhere:

Cactus: Cactus is a simple test framework for unit testing server-side java code (Servlets, EJBs, Tag Libs, Filters, ...). The intent of Cactus is to lower the cost of writing tests for server-side code.

Hivemind: HiveMind is a services and configuration microkernel. HiveMind allows you to create your application using a service oriented architecture.

HttpClient 3.x: Framework for working with the client-side of the HTTP protocol.

Naming: The Naming subproject will contain common JNDI code along with various JNDI providers.