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Welcome to the Apache Commons Wiki

bl o c k e d U RL	This is the Apache Wiki for the Apache Commons project and is maintained by the Commons community. To edit pages, visit login near the top right corner of any page to create a user profile or to login. Then send a brief request (including your wiki username) to the Commons dev@ list asking to be added to the Contributors Group. You can then edit the pages in this Wiki. Notifications of all changes you make will be sent to the dev@commons mailing list, so we will be aware of your changes and we will happily correct any small mistakes that you might make.
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We're a [Commons](#) community, dedicated to creating reusable library components in Java. Apache Commons mainly uses [Subversion](#) as its version control system, however some components now use [Git](#), and Commons components are available as read-only mirrors on [Github](#).

Welcome: [CommonsEtiquette](#) | [CommonsResources](#) | [ArticlesAndTutorials](#)

Developers: [GettingInvolved](#) | [UsingGIT](#) | [UsingSVN](#) | [CodeStyle](#) | [UseClirrWithShade](#)

Committers: [CommonsPeople](#) | [ComponentPlans](#) | [CommonsCommitters](#) | [CommonsOsgi](#) | [UsingNexus](#) | [CommonsGroupids](#) | [Maven3Plan](#)

Bug Reports: [Jira](#)

Security Reports: [Security](#)

Components

On this wiki:

- [BeanUtils](#) - Utilities for manipulating java beans, including copying properties, cloning, invoking methods and type conversion.
- [Betwixt](#) - Services for mapping JavaBeans to XML documents, and vice versa.
- [Chain](#) - A "Chain of Responsibility" pattern implementation for organizing complex processing flows.
- [CLI](#) - Command Line Interface library for processing command-line options and arguments.
- [Codec](#) - General encoding/decoding algorithms. Includes some phonetic encoders, Hex, Base64, and a URL encoder.
- [Collections](#) - Builds upon the Java Collections Framework of List, Set and Map to provide many more implementations, new collections and abstract base classes.
- [Configuration](#) - Tools to assist in the reading of configuration/preferences files in various formats
- [Compress](#) - Defines an API for working with archives and compression formats including but not limited to: tar,gz, ar, cpio, zip and bzip2 files
- [Daemon](#) - Run (java) applications as windows service or UNIX daemon.
- [DBCP](#) - Database connection pooling services.
- [Digester](#) - An XML-to-Java-object mapping utility commonly used for parsing XML configuration files.
- [Email](#) - Simplify email sending with Java. Built on top of the Java Mail API.
- [Exec](#) - A Java library to execute external processes from within a Java application
- [FileUpload](#) - Makes it easy to add robust, high-performance, file upload capability to your servlets and web applications
- [Functor](#) - Supports functional programming in Java
- [HttpClient](#) - A framework for working with the client-side of the HTTP protocol.
- [IO](#) - Utility classes, stream implementations, file filters and endian classes to assist in input/output operations.
- [JCI](#) - Java Compiler Interface
- [JEXL](#) - A velocity-esque expression interpreter
- [Jelly](#) - An XML-based scripting language
- [XPath](#) - Facilities for applying xpath expressions to graphs of objects of all kinds: Java beans, Maps, Servlet contexts, DOM etc.
- [Lang](#) - Common utilities that should be provided by the JDK, including String handling, Object and Date helpers, nested exceptions and enumerated types.
- [Launcher](#) - A cross platform Java application launcher which eliminates the need for a batch or shell script to launch a Java class.
- [Logging](#) A thin, modular bridging API with out-of-the-box support for the most well known logging systems.
- [Math](#) Lightweight, self-contained mathematics and statistics components.
- [Modeler](#) Mechanisms to create Model MBeans compatible with the Java Management Extensions (JMX) specification.
- [Net](#) - A collection of classes implementing various network protocols such as FTP, NNTP, SMTP, Telnet.
- [Pool](#) - A generic object pooling interface, a toolkit for creating modular object pools and several general purpose pool implementations.
- [Proxy](#) - A Java library for dynamic proxying
- [SCXML](#) - A Java implementation of State Chart XML (SCXML), currently a W3C Working Draft.
- [Transaction](#) - Utility classes commonly used in transactional programming
- [Validator](#) - Components for user input validation
- [VFS](#) - Extensible framework to acces various filesystems through an unified api with implementations for e.g. sftp, smb, http, zip, ...

On the commons site:

- <http://commons.apache.org/components.html>

Sandbox

TheSandbox is an open workspace for Apache committers. This is also divided into components.

On this wiki:

- [ClassScan](#) - Read access to the ClassPath of a ClassLoader and metadata about the classes available from a ClassLoader.
 - [CLI2](#) - An experimental rewrite of the Commons CLI API
 - [CommonsCsv](#) - Proposed new component
 - [Id](#) - Generators for identifiers
 - [ME](#) - Provides JaveME helpers, and implementations of JavaSE functionality that JavaME lacks but programmers want
 - [Metadata](#) - Proposed new component which provides a class metadata API similar to that of JDK5
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Dormant

Sandbox components that are currently inactive. On this wiki:

- [CommonsConvert](#) - Various conversion ideas extracted from [BeanUtils](#)
- [FeedParser](#) - RSS and Atom parsing infrastructure
- [Resources](#) - A lightweight framework for defining and looking up internationalized message strings.