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org.apache.commons.collections4.properties

## Class AbstractPropertiesFactory<T extends [**Properties**](https://docs.oracle.com/javase/7/docs/api/java/util/Properties.html?is-external=true)>

* [java.lang.Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)
  + org.apache.commons.collections4.properties.AbstractPropertiesFactory<T>
* Type Parameters: T - [Properties](https://docs.oracle.com/javase/7/docs/api/java/util/Properties.html?is-external=true) or a subclass like [SortedProperties](http://docs.google.com/org/apache/commons/collections4/properties/SortedProperties.html). Direct Known Subclasses: [PropertiesFactory](http://docs.google.com/org/apache/commons/collections4/properties/PropertiesFactory.html), [SortedPropertiesFactory](http://docs.google.com/org/apache/commons/collections4/properties/SortedPropertiesFactory.html)  
    
  public abstract class AbstractPropertiesFactory<T extends [Properties](https://docs.oracle.com/javase/7/docs/api/java/util/Properties.html?is-external=true)>  
  extends [Object](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)  
  Subclasses create and load [Properties](https://docs.oracle.com/javase/7/docs/api/java/util/Properties.html?is-external=true) and subclasses of [Properties](https://docs.oracle.com/javase/7/docs/api/java/util/Properties.html?is-external=true) like [SortedProperties](http://docs.google.com/org/apache/commons/collections4/properties/SortedProperties.html).Since: 4.4 See Also: [Properties](https://docs.oracle.com/javase/7/docs/api/java/util/Properties.html?is-external=true)

### Constructor SummaryConstructors

|  |  |
| --- | --- |
| * + Modifier | * + Constructor and Description |
| * + protected | * + [AbstractPropertiesFactory](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html#AbstractPropertiesFactory--)() Constructs an instance. |

### Method SummaryAll Methods Instance Methods Abstract Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + protected abstract [T](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html) | * + [createProperties](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html#createProperties--)() Subclasses override to provide customized properties instances. |
| * + [T](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html) | * + [load](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html#load-java.lang.ClassLoader-java.lang.String-)([ClassLoader](https://docs.oracle.com/javase/7/docs/api/java/lang/ClassLoader.html?is-external=true) classLoader, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Creates and loads properties from the given file. |
| * + [T](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html) | * + [load](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html#load-java.io.File-)([File](https://docs.oracle.com/javase/7/docs/api/java/io/File.html?is-external=true) file) Creates and loads properties from the given file. |
| * + [T](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html) | * + [load](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html#load-java.io.InputStream-)([InputStream](https://docs.oracle.com/javase/7/docs/api/java/io/InputStream.html?is-external=true) inputStream) Creates and loads properties from the given input stream. |
| * + [T](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html) | * + [load](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html#load-java.nio.file.Path-)([Path](https://docs.oracle.com/javase/7/docs/api/java/nio/file/Path.html?is-external=true) path) Creates and loads properties from the given path. |
| * + [T](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html) | * + [load](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html#load-java.io.Reader-)([Reader](https://docs.oracle.com/javase/7/docs/api/java/io/Reader.html?is-external=true) reader) Creates and loads properties from the given reader. |
| * + [T](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html) | * + [load](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html#load-java.lang.String-)([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) Creates and loads properties from the given file name. |
| * + [T](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html) | * + [load](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html#load-java.net.URI-)([URI](https://docs.oracle.com/javase/7/docs/api/java/net/URI.html?is-external=true) uri) Creates and loads properties from the given URI. |
| * + [T](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html) | * + [load](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html#load-java.net.URL-)([URL](https://docs.oracle.com/javase/7/docs/api/java/net/URL.html?is-external=true) url) Creates and loads properties from the given URL. |

### Methods inherited from class java.lang.[**Object**](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true)[clone](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#clone--), [equals](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#equals-java.lang.Object-), [finalize](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#finalize--), [getClass](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#getClass--), [hashCode](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#hashCode--), [notify](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#notify--), [notifyAll](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#notifyAll--), [toString](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#toString--), [wait](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#wait--), [wait](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#wait-long-), [wait](https://docs.oracle.com/javase/7/docs/api/java/lang/Object.html?is-external=true#wait-long-int-)

### Constructor Detail

#### AbstractPropertiesFactory protected AbstractPropertiesFactory() Constructs an instance.

### Method Detail

#### createProperties protected abstract [T](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html) createProperties() Subclasses override to provide customized properties instances.Returns: a new Properties instance.

#### load public [T](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html) load([ClassLoader](https://docs.oracle.com/javase/7/docs/api/java/lang/ClassLoader.html?is-external=true) classLoader, [String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) throws [IOException](https://docs.oracle.com/javase/7/docs/api/java/io/IOException.html?is-external=true) Creates and loads properties from the given file.Parameters: classLoader - the class loader to use to get the named resource. name - the location of the properties file. Returns: a new properties object. Throws: [IOException](https://docs.oracle.com/javase/7/docs/api/java/io/IOException.html?is-external=true) - Thrown if an error occurred reading the input stream. [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - Thrown if the input contains a malformed Unicode escape sequence.

#### load public [T](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html) load([File](https://docs.oracle.com/javase/7/docs/api/java/io/File.html?is-external=true) file) throws [FileNotFoundException](https://docs.oracle.com/javase/7/docs/api/java/io/FileNotFoundException.html?is-external=true), [IOException](https://docs.oracle.com/javase/7/docs/api/java/io/IOException.html?is-external=true) Creates and loads properties from the given file.Parameters: file - the location of the properties file. Returns: a new properties object. Throws: [IOException](https://docs.oracle.com/javase/7/docs/api/java/io/IOException.html?is-external=true) - Thrown if an error occurred reading the input stream. [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - Thrown if the input contains a malformed Unicode escape sequence. [FileNotFoundException](https://docs.oracle.com/javase/7/docs/api/java/io/FileNotFoundException.html?is-external=true) - Thrown if the file does not exist, is a directory, or cannot be opened for reading. [SecurityException](https://docs.oracle.com/javase/7/docs/api/java/lang/SecurityException.html?is-external=true) - Thrown if a security manager's checkRead method denies read access to the file.

#### load public [T](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html) load([InputStream](https://docs.oracle.com/javase/7/docs/api/java/io/InputStream.html?is-external=true) inputStream) throws [IOException](https://docs.oracle.com/javase/7/docs/api/java/io/IOException.html?is-external=true) Creates and loads properties from the given input stream.Parameters: inputStream - the location of the properties file. Returns: a new properties object. Throws: [IOException](https://docs.oracle.com/javase/7/docs/api/java/io/IOException.html?is-external=true) - Thrown if an error occurred reading the input stream. [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - Thrown if the input contains a malformed Unicode escape sequence.

#### load public [T](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html) load([Path](https://docs.oracle.com/javase/7/docs/api/java/nio/file/Path.html?is-external=true) path) throws [IOException](https://docs.oracle.com/javase/7/docs/api/java/io/IOException.html?is-external=true) Creates and loads properties from the given path.Parameters: path - the location of the properties file. Returns: a new properties object. Throws: [IOException](https://docs.oracle.com/javase/7/docs/api/java/io/IOException.html?is-external=true) - Thrown if an error occurred reading the input stream. [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - Thrown if the input contains a malformed Unicode escape sequence.

#### load public [T](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html) load([Reader](https://docs.oracle.com/javase/7/docs/api/java/io/Reader.html?is-external=true) reader) throws [IOException](https://docs.oracle.com/javase/7/docs/api/java/io/IOException.html?is-external=true) Creates and loads properties from the given reader.Parameters: reader - the location of the properties file. Returns: a new properties object. Throws: [IOException](https://docs.oracle.com/javase/7/docs/api/java/io/IOException.html?is-external=true) - Thrown if an error occurred reading the input stream. [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - Thrown if the input contains a malformed Unicode escape sequence.

#### load public [T](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html) load([String](https://docs.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true) name) throws [IOException](https://docs.oracle.com/javase/7/docs/api/java/io/IOException.html?is-external=true) Creates and loads properties from the given file name.Parameters: name - the location of the properties file. Returns: a new properties object. Throws: [IOException](https://docs.oracle.com/javase/7/docs/api/java/io/IOException.html?is-external=true) - Thrown if an error occurred reading the input stream. [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - Thrown if the input contains a malformed Unicode escape sequence.

#### load public [T](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html) load([URI](https://docs.oracle.com/javase/7/docs/api/java/net/URI.html?is-external=true) uri) throws [IOException](https://docs.oracle.com/javase/7/docs/api/java/io/IOException.html?is-external=true) Creates and loads properties from the given URI.Parameters: uri - the location of the properties file. Returns: a new properties object. Throws: [IOException](https://docs.oracle.com/javase/7/docs/api/java/io/IOException.html?is-external=true) - Thrown if an error occurred reading the input stream. [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - Thrown if the input contains a malformed Unicode escape sequence.

#### load public [T](http://docs.google.com/org/apache/commons/collections4/properties/AbstractPropertiesFactory.html) load([URL](https://docs.oracle.com/javase/7/docs/api/java/net/URL.html?is-external=true) url) throws [IOException](https://docs.oracle.com/javase/7/docs/api/java/io/IOException.html?is-external=true) Creates and loads properties from the given URL.Parameters: url - the location of the properties file. Returns: a new properties object. Throws: [IOException](https://docs.oracle.com/javase/7/docs/api/java/io/IOException.html?is-external=true) - Thrown if an error occurred reading the input stream. [IllegalArgumentException](https://docs.oracle.com/javase/7/docs/api/java/lang/IllegalArgumentException.html?is-external=true) - Thrown if the input contains a malformed Unicode escape sequence.

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