javaproperties

Release 0.5.2

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Simple Line-Oriented .properties Format

1.1 Format Overview

The simple line-oriented .properties file format consists of a series of key-value string pairs, one (or fewer) per line, with the key & value separated by the first occurrence of an equals sign (=, optionally with surrounding whitespace), a colon (:, optionally with surrounding whitespace), or non-leading whitespace. A line without a separator is treated as a key whose value is the empty string. If the same key occurs more than once in a single file, only its last value is used.

Note: Lines are terminated by $\n (LF)$, $\r \n (CR LF)$, or $\r (CR)$.

Note: For the purposes of this format, only the space character (ASCII 0x20), the tab character (ASCII 0x09), and the form feed character (ASCII 0x0C) count as whitespace.

Leading whitespace on a line is ignored, but trailing whitespace (after stripping trailing newlines) is not. Lines whose first non-whitespace character is # or ! (not escaped) are comments and are ignored.

Entries can be extended across multiple lines by ending all but the last line with a backslash; the backslash, the line ending after it, and any leading whitespace on the next line will all be discarded. A backslash at the end of a comment line has no effect. A comment line after a line that ends with a backslash is treated as part of a normal key-value entry, not as a comment.

Occurrences of =, :, #, !, and whitespace inside a key or value are escaped with a backslash. In addition, the following escape sequences are recognized:

```
\t \n \f \r \uXXXX \\
```

If a backslash is followed by any other character, the backslash is dropped.

By default, keys & values in .properties files are encoded in ASCII, and comments are encoded in Latin-1; characters outside these ranges, along with any unprintable characters, are escaped with the escape sequences listed

above. Unicode characters outside the Basic Multilingual Plane are first converted to UTF-16 surrogate pairs before escaping with \uXXXX escapes.

An example simple line-oriented .properties file:

```
#This is a comment.
foo=bar
baz: quux
gnusto cleesh
snowman = \u2603
goat = \ud83d\udc10
host\:port=127.0.0.1\:80
```

This corresponds to the Python dict:

```
{
    "foo": "bar",
    "baz": "quux",
    "gnusto": "cleesh",
    "snowman": "",
    "goat": "",
    "host:port": "127.0.0.1:80",
}
```

1.2 Functions

javaproperties.dump (props, fp, separator='=', comments=None, timestamp=True, sort_keys=False) Write a series of key-value pairs to a file in simple line-oriented .properties format.

Parameters

- **props** A mapping or iterable of (key, value) pairs to write to fp. All keys and values in props must be text strings. If sort_keys is False, the entries are output in iteration order.
- **fp** A file-like object to write the values of props to. It must have been opened as a text file with a Latin-1-compatible encoding.
- **separator** (text string) The string to use for separating keys & values. Only ", "=", and ":" (possibly with added whitespace) should ever be used as the separator.
- comments (text string or None) if non-None, comments will be written to fp as a comment before any other content
- timestamp (None, bool, number, or datetime.datetime) If neither None nor False, a timestamp in the form of Mon Sep 02 14:00:54 EDT 2016 is written as a comment to fp after comments (if any) and before the key-value pairs. If timestamp is True, the current date & time is used. If it is a number, it is converted from seconds since the epoch to local time. If it is a datetime.datetime object, its value is used directly, with naïve objects assumed to be in the local timezone.
- **sort_keys** (bool) if true, the elements of props are sorted lexicographically by key in the output

Returns None

javaproperties.dumps (props, separator='=', comments=None, timestamp=True, sort_keys=False)

Convert a series of key-value pairs to a text string in simple line-oriented .properties format.

Parameters

- **props** A mapping or iterable of (key, value) pairs to serialize. All keys and values in props must be text strings. If sort_keys is False, the entries are output in iteration order.
- **separator** (text string) The string to use for separating keys & values. Only ", "=", and ":" (possibly with added whitespace) should ever be used as the separator.
- comments (text string or None) if non-None, comments will be output as a comment before any other content
- timestamp (None, bool, number, or datetime.datetime) If neither None nor False, a timestamp in the form of Mon Sep 02 14:00:54 EDT 2016 is output as a comment after comments (if any) and before the key-value pairs. If timestamp is True, the current date & time is used. If it is a number, it is converted from seconds since the epoch to local time. If it is a datetime.datetime object, its value is used directly, with naïve objects assumed to be in the local timezone.
- sort_keys (bool) if true, the elements of props are sorted lexicographically by key in the output

Return type text string

javaproperties.load(fp, object_pairs_hook=<class 'dict'>)

Parse the contents of the readline-supporting file-like object fp as a simple line-oriented .properties file and return a dict of the key-value pairs.

fp may be either a text or binary filehandle, with or without universal newlines enabled. If it is a binary filehandle, its contents are decoded as Latin-1.

By default, the key-value pairs extracted from fp are combined into a dict with later occurrences of a key overriding previous occurrences of the same key. To change this behavior, pass a callable as the object_pairs_hook argument; it will be called with one argument, a generator of (key, value) pairs representing the key-value entries in fp (including duplicates) in order of occurrence. <code>load</code> will then return the value returned by <code>object_pairs_hook</code>.

Changed in version 0.5.0: Invalid \uXXXX escape sequences will now cause an InvalidUEscapeError to be raised

Parameters

- **fp** (file-like object) the file from which to read the .properties document
- **object_pairs_hook** (callable) class or function for combining the key-value pairs

Return type dict of text strings or the return value of object pairs hook

Raises InvalidUEscapeError – if an invalid \uXXXX escape sequence occurs in the input

javaproperties.loads (s, object_pairs_hook=<class 'dict'>)

Parse the contents of the string s as a simple line-oriented .properties file and return a dict of the key-value pairs.

s may be either a text string or bytes string. If it is a bytes string, its contents are decoded as Latin-1.

By default, the key-value pairs extracted from s are combined into a dict with later occurrences of a key overriding previous occurrences of the same key. To change this behavior, pass a callable as the object_pairs_hook argument; it will be called with one argument, a generator of (key, value) pairs representing the key-value entries in s (including duplicates) in order of occurrence. <code>loads</code> will then return the value returned by <code>object_pairs_hook</code>.

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Parameters

- \mathbf{s} (string) the string from which to read the .properties document
- **object_pairs_hook** (callable) class or function for combining the key-value pairs

Return type dict of text strings or the return value of object_pairs_hook

XML .properties Format

2.1 Format Overview

The XML .properties file format encodes a series of key-value string pairs (and optionally also a comment) as an XML document conforming to the following Document Type Definition (published at http://java.sun.com/dtd/properties.dtd):

```
<!ELEMENT properties (comment?, entry*)>
<!ATTLIST properties version CDATA #FIXED "1.0">
<!ELEMENT comment (#PCDATA)>
<!ELEMENT entry (#PCDATA)>
<!ATTLIST entry key CDATA #REQUIRED>
```

An example XML .properties file:

```
<!DOCTYPE properties SYSTEM "http://java.sun.com/dtd/properties.dtd">
comment>This is a comment.
<entry key="foo">bar</entry>
<entry key="snowman"></entry>
<entry key="goat"></entry>
<entry key="loot">>comment></entry>
<entry key="host:port">127.0.0.1:80</entry>
</properties>
```

This corresponds to the Python dict:

```
{
    "foo": "bar",
    "snowman": "",
    "goat": "",
    "host:port": "127.0.0.1:80",
}
```

2.2 Functions

javaproperties.dump_xml (props, fp, comment=None, encoding='UTF-8', sort_keys=False)

Write a series props of key-value pairs to a binary filehandle fp in the format of an XML properties file. The file will include both an XML declaration and a doctype declaration.

Parameters

- **props** A mapping or iterable of (key, value) pairs to write to fp. All keys and values in props must be text strings. If sort_keys is False, the entries are output in iteration order.
- fp (binary file-like object) a file-like object to write the values of props to
- comment (text string or None) if non-None, comment will be output as a <comment> element before the <entry> elements
- **encoding** (*string*) the name of the encoding to use for the XML document (also included in the XML declaration)
- **sort_keys** (bool) if true, the elements of props are sorted lexicographically by key in the output

Returns None

javaproperties.dumps xml (props, comment=None, sort keys=False)

Convert a series props of key-value pairs to a text string containing an XML properties document. The document will include a doctype declaration but not an XML declaration.

Parameters

- **props** A mapping or iterable of (key, value) pairs to serialize. All keys and values in props must be text strings. If sort_keys is False, the entries are output in iteration order.
- comment (text string or None) if non-None, comment will be output as a <comment> element before the <entry> elements
- **sort_keys** (bool) if true, the elements of props are sorted lexicographically by key in the output

Return type text string

javaproperties.load_xml (fp, object_pairs_hook=<class 'dict'>)

Parse the contents of the file-like object fp as an XML properties file and return a dict of the key-value pairs.

Beyond basic XML well-formedness, <code>load_xml</code> only checks that the root element is named "properties" and that all of its <code><entry></code> children have key attributes. No further validation is performed; if any <code><entry>s</code> happen to contain nested tags, the behavior is undefined.

By default, the key-value pairs extracted from fp are combined into a dict with later occurrences of a key overriding previous occurrences of the same key. To change this behavior, pass a callable as the object_pairs_hook argument; it will be called with one argument, a generator of (key, value) pairs representing the key-value entries in fp (including duplicates) in order of occurrence. <code>load_xml</code> will then return the value returned by object_pairs_hook.

Note: This uses xml.etree.ElementTree for parsing, which does not have decent support for unicode input in Python 2. Files containing non-ASCII characters need to be opened in binary mode in Python 2, while Python 3 accepts both binary and text input.

Parameters

- fp (file-like object) the file from which to read the XML properties document
- **object_pairs_hook** (callable) class or function for combining the key-value pairs

Return type dict or the return value of object_pairs_hook

Raises ValueError – if the root of the XML tree is not a properties> tag or an <entry> element is missing a key attribute

javaproperties.loads_xml (s, object_pairs_hook=<class 'dict'>)

Parse the contents of the string s as an XML properties document and return a dict of the key-value pairs.

Beyond basic XML well-formedness, <code>loads_xml</code> only checks that the root element is named "properties" and that all of its <code><entry></code> children have key attributes. No further validation is performed; if any <code><entry>s</code> happen to contain nested tags, the behavior is undefined.

By default, the key-value pairs extracted from s are combined into a dict with later occurrences of a key overriding previous occurrences of the same key. To change this behavior, pass a callable as the object_pairs_hook argument; it will be called with one argument, a generator of (key, value) pairs representing the key-value entries in s (including duplicates) in order of occurrence. <code>loads_xml</code> will then return the value returned by object_pairs_hook.

Note: This uses xml.etree.ElementTree for parsing, which does not have decent support for unicode input in Python 2. Strings containing non-ASCII characters need to be encoded as bytes in Python 2 (Use either UTF-8 or UTF-16 if the XML document does not contain an encoding declaration), while Python 3 accepts both binary and text input.

Parameters

- **s** (string) the string from which to read the XML properties document
- **object_pairs_hook** (callable) class or function for combining the key-value pairs

Return type dict or the return value of object_pairs_hook

Raises ValueError – if the root of the XML tree is not a properties> tag or an <entry>
element is missing a key attribute

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Properties Class

class javaproperties.Properties (data=None, defaults=None)

A port of Java 8's java.util.Properties that tries to match its behavior as much as is Pythonically possible. *Properties* behaves like a normal MutableMapping class (i.e., you can do props [key] = value and so forth), except that it may only be used to store strings (str and unicode in Python 2; just str in Python 3). Attempts to use a non-string object as a key or value will produce a TypeError.

Two *Properties* instances compare equal iff both their key-value pairs and *defaults* attributes are equal. When comparing a *Properties* instance to any other type of mapping, only the key-value pairs are considered.

Changed in version 0.5.0: Properties instances can now compare equal to dicts and other mapping types

Parameters

- data (mapping or None) A mapping or iterable of (key, value) pairs with which to initialize the *Properties* object. All keys and values in data must be text strings.
- **defaults** (*Properties* or None) a set of default properties that will be used as fallback for *getProperty*

copy()

New in version 0.5.0.

Create a shallow copy of the mapping. The copy's defaults attribute will be the same instance as the original's defaults.

defaults = None

A Properties subobject used as fallback for <code>getProperty</code>. Only <code>getProperty</code>, <code>propertyNames</code>, <code>stringPropertyNames</code>, and <code>__eq_</code> use this attribute; all other methods (including the standard mapping methods) ignore it.

getProperty (key, defaultValue=None)

Fetch the value associated with the key key in the *Properties* object. If the key is not present, *defaults* is checked, and then *its defaults*, etc., until either a value for key is found or the next *defaults* is None, in which case defaultValue is returned.

Parameters

- **key** (text string) the key to look up the value of
- **defaultValue** the value to return if key is not found in the *Properties* object

Return type text string (if key was found)

Raises TypeError - if key is not a string

load(inStream)

Update the Properties object with the entries in a .properties file or file-like object.

inStream may be either a text or binary filehandle, with or without universal newlines enabled. If it is a binary filehandle, its contents are decoded as Latin-1.

Changed in version 0.5.0: Invalid \uXXXX escape sequences will now cause an InvalidUEscapeError to be raised

Parameters inStream (file-like object) - the file from which to read the . properties document

Returns None

Raises InvalidUEscapeError - if an invalid \uXXXX escape sequence occurs in the input

loadFromXML (inStream)

Update the *Properties* object with the entries in the XML properties file inStream.

Beyond basic XML well-formedness, <code>loadFromXML</code> only checks that the root element is named properties and that all of its entry children have key attributes; no further validation is performed.

Note: This uses xml.etree.ElementTree for parsing, which does not have decent support for unicode input in Python 2. Files containing non-ASCII characters need to be opened in binary mode in Python 2, while Python 3 accepts both binary and text input.

Parameters inStream (file-like object) - the file from which to read the XML properties document

Returns None

Raises ValueError – if the root of the XML tree is not a properties> tag or an <entry> element is missing a key attribute

propertyNames()

Returns a generator of all distinct keys in the *Properties* object and its *defaults* (and its *defaults*'s *defaults*, etc.) in unspecified order

Return type generator of text strings

setProperty (key, value)

Equivalent to self[key] = value

store (out, comments=None)

Write the *Properties* object's entries (in unspecified order) in .properties format to out, including the current timestamp.

Parameters

- out A file-like object to write the properties to. It must have been opened as a text file with a Latin-1-compatible encoding.
- comments (text string or None) If non-None, comments will be written to out as a comment before any other content

Returns None

storeToXML (out, comment=None, encoding='UTF-8')

Write the Properties object's entries (in unspecified order) in XML properties format to out.

Parameters

- out (binary file-like object) a file-like object to write the properties to
- comment (text string or None) if non-None, comment will be output as a <comment> element before the <entry> elements
- **encoding** (*string*) the name of the encoding to use for the XML document (also included in the XML declaration)

Returns None

stringPropertyNames()

Returns a set of all keys in the *Properties* object and its defaults (and its defaults's defaults, etc.)

 $\textbf{Return type} \ \text{set of text strings}$

PropertiesFile Class

class javaproperties.**PropertiesFile** (*mapping=None*, **kwargs)
New in version 0.3.0.

A custom mapping class for reading from, editing, and writing to a .properties file while preserving comments & whitespace in the original input.

A PropertiesFile instance can be constructed from another mapping and/or iterable of pairs, after which it will act like an OrderedDict. Alternatively, an instance can be constructed from a file or string with PropertiesFile.load() or PropertiesFile.loads(), and the resulting instance will remember the formatting of its input and retain that formatting when written back to a file or string with the dump() or dumps() method. The formatting information attached to an instance pf can be forgotten by constructing another mapping from it via dict(pf), OrderedDict(pf), or even PropertiesFile(pf) (Use the copy() method if you want to create another PropertiesFile instance with the same data & formatting).

When not reading or writing, <code>PropertiesFile</code> behaves like a normal MutableMapping class (i.e., you can do <code>props[key] = value</code> and so forth), except that (a) like <code>OrderedDict</code>, key insertion order is remembered and is used when iterating & dumping (and <code>reversed</code> is supported), and (b) like <code>Properties</code>, it may only be used to store strings and will raise a <code>TypeError</code> if passed a non-string object as key or value.

Two PropertiesFile instances compare equal iff both their key-value pairs and comment & whitespace lines are equal and in the same order. When comparing a PropertiesFile to any other type of mapping, only the key-value pairs are considered, and order is ignored.

PropertiesFile currently only supports reading & writing the simple line-oriented format, not XML.

copy()

Create a copy of the mapping, including formatting information

dump (fp, separator='=')

Write the mapping to a file in simple line-oriented .properties format.

If the instance was originally created from a file or string with *PropertiesFile.load()* or *PropertiesFile.loads()*, then the output will include the comments and whitespace from the original input, and any keys that haven't been deleted or reassigned will retain their original formatting and multiplicity. Key-value pairs that have been modified or added to the mapping will be reformatted

with <code>join_key_value()</code> using the given separator. All key-value pairs are output in the order they were defined, with new keys added to the end.

Note: Serializing a *PropertiesFile* instance with the *dump()* function instead will cause all formatting information to be ignored, as *dump()* will treat the instance like a normal mapping.

Parameters

- **fp** A file-like object to write the mapping to. It must have been opened as a text file with a Latin-1-compatible encoding.
- **separator** (*text string*) The string to use for separating new or modified keys & values. Only " ", "=", and ":" (possibly with added whitespace) should ever be used as the separator.

Returns None

dumps (separator='=')

Convert the mapping to a text string in simple line-oriented .properties format.

If the instance was originally created from a file or string with <code>PropertiesFile.load()</code> or <code>PropertiesFile.loads()</code>, then the output will include the comments and whitespace from the original input, and any keys that haven't been deleted or reassigned will retain their original formatting and multiplicity. Key-value pairs that have been modified or added to the mapping will be reformatted with <code>join_key_value()</code> using the given separator. All key-value pairs are output in the order they were defined, with new keys added to the end.

Note: Serializing a *PropertiesFile* instance with the *dumps()* function instead will cause all formatting information to be ignored, as *dumps()* will treat the instance like a normal mapping.

Parameters separator (text string) - The string to use for separating new or modified keys & values. Only " ", "=", and ":" (possibly with added whitespace) should ever be used as the separator.

Return type text string

${\tt classmethod}\ {\tt load}\,(f\!p)$

Parse the contents of the readline-supporting file-like object fp as a simple line-oriented . properties file and return a *PropertiesFile* instance.

fp may be either a text or binary filehandle, with or without universal newlines enabled. If it is a binary filehandle, its contents are decoded as Latin-1.

Changed in version 0.5.0: Invalid \uXXXX escape sequences will now cause ar InvalidUEscapeError to be raised

Parameters fp (file-like object) - the file from which to read the .properties document

Return type PropertiesFile

Raises InvalidUEscapeError - if an invalid \uXXXX escape sequence occurs in the input

classmethod loads(s)

Parse the contents of the string s as a simple line-oriented .properties file and return a *PropertiesFile* instance.

s may be either a text string or bytes string. If it is a bytes string, its contents are decoded as Latin-1.

Changed in version 0.5.0: Invalid \uxxxx escape sequences will now cause an InvalidUEscapeError to be raised

 ${f Parameters} \ {f s}\ (string)$ – the string from which to read the .properties document

Return type *PropertiesFile*

Raises InvalidUEscapeError – if an invalid \uXXXX escape sequence occurs in the input

Low-Level Utilities

```
javaproperties.escape (field)
```

Escape a string so that it can be safely used as either a key or value in a .properties file. All non-ASCII characters, all nonprintable or space characters, and the characters \ \ \# ! = : are all escaped using either the single-character escapes recognized by unescape (when they exist) or \uXXXX escapes (after converting non-BMP characters to surrogate pairs).

Parameters field (text string) – the string to escape

Return type text string

javaproperties.java_timestamp(timestamp=True)

New in version 0.2.0.

Returns a timestamp in the format produced by Java 8's Date.toString(), e.g.:

```
Mon Sep 02 14:00:54 EDT 2016
```

If timestamp is True (the default), the current date & time is returned.

If timestamp is None or False, an empty string is returned.

If timestamp is a number, it is converted from seconds since the epoch to local time.

If timestamp is a datetime object, its value is used directly, with na \ddot{i} ve objects assumed to be in the local timezone.

The timestamp is always constructed using the C locale.

Parameters timestamp (None, bool, number, or datetime.datetime) - the date & time to display

Return type text string

```
javaproperties.join_key_value(key, value, separator='=')
```

Join a key and value together into a single line suitable for adding to a simple line-oriented .properties file. No trailing newline is added.

```
>>> join_key_value('possible separators', '= : space')
'possible\\ separators=\\= \\: space'
```

Parameters

- **key** (text string) the key
- value (text string) the value
- **separator** (text string) the string to use for separating the key & value. Only ", "=", and ":" (possibly with added whitespace) should ever be used as the separator.

Return type text string

```
javaproperties.parse(fp)
```

Parse the contents of the readline-supporting file-like object fp as a simple line-oriented .properties file and return a generator of (key, value, original_lines) triples for every entry in fp (including duplicate keys) in order of occurrence. The third element of each triple is the concatenation of the unmodified lines in fp (including trailing newlines) from which the key and value were extracted. The generator also includes comments and blank/all-whitespace lines found in fp, one triple per line, with the first two elements of the triples set to None. This is the only way to extract comments from a .properties file with this library.

fp may be either a text or binary filehandle, with or without universal newlines enabled. If it is a binary filehandle, its contents are decoded as Latin-1.

Changed in version 0.5.0: Invalid \uxxxx escape sequences will now cause an $\uxred{InvalidUEscapeError}$ to be raised

Parameters fp (file-like object) - the file from which to read the .properties document

Return type generator of triples of text strings

Raises InvalidUEscapeError – if an invalid \uXXXX escape sequence occurs in the input

```
javaproperties.to_comment (comment)
```

```
>>> to_comment('They say foo=bar,\r\nbut does bar=foo?')
'#They say foo=bar,\n#but does bar=foo?'
```

Parameters comment (text string) – the string to convert to a comment

Return type text string

```
javaproperties.unescape (field)
```

Decode escape sequences in a .properties key or value. The following escape sequences are recognized:

```
\t \n \f \r \uXXXXX \\
```

If a backslash is followed by any other character, the backslash is dropped.

In addition, any valid UTF-16 surrogate pairs in the string after escape-decoding are further decoded into the non-BMP characters they represent. (Invalid & isolated surrogate code points are left as-is.)

Changed in version 0.5.0: Invalid \uXXXX escape sequences will now cause an InvalidUEscapeError to be raised

Parameters field (text string) - the string to decode

Return type text string

Raises InvalidUEscapeError – if an invalid \uXXXX escape sequence occurs in the input

exception javaproperties.InvalidUEscapeError(escape)

Bases: ValueError

New in version 0.5.0.

Raised when an invalid \uxxxx escape sequence (i.e., a \u not immediately followed by four hexadecimal digits) is encountered in a simple line-oriented .properties file

escape = None

The invalid \uXXXX escape sequence encountered

Command-Line Utilities

As of version 0.4.0, the command-line programs have been split off into a separate package, javaproperties-cli, which must be installed separately in order to use them. See the package's documentation for details.

<code>javaproperties</code> provides support for reading & writing Java .properties files (both the simple line-oriented format and XML) with a simple API based on the <code>json</code> module — though, for recovering Java addicts, it also includes a <code>Properties</code> class intended to match the behavior of Java 8's <code>java.util.Properties</code> as much as is Pythonically possible.

Previous versions of *javaproperties* included command-line programs for basic manipulation of . properties files. As of version 0.4.0, these programs have been split off into a separate package, javaproperties-cli.

Note: Throughout the documentation, "text string" means a Unicode character string — unicode in Python 2, str in Python 3.

	CHAPTER 7
	Installation
Just use pip (You have pip, right?) to install javaproperties and its dependencies:	
pip install javaproperties	

Examples

Dump some keys & values (output order not guaranteed):

Load some keys & values:

```
>>> javaproperties.loads('''
... #Mon Sep 26 14:57:44 EDT 2016
... key = value
... goat: \\ud83d\\udc10
... host\\:port=127.0.0.1:80
... #foo = bar
... snowman
... ''')
{'goat': '', 'host:port': '127.0.0.1:80', 'key': 'value', 'snowman': ''}
```

Dump some properties to a file and read them back in again:

```
>>> with open('example.properties', 'w', encoding='latin-1') as fp:
... javaproperties.dump(properties, fp)
...
>>> with open('example.properties', 'r', encoding='latin-1') as fp:
... javaproperties.load(fp)
...
{'goat': '', 'host:port': '127.0.0.1:80', 'key': 'value', 'snowman': ''}
```

Sort the properties you're dumping:

```
>>> print(javaproperties.dumps(properties, sort_keys=True))
#Mon Sep 26 14:57:44 EDT 2016
goat=\ud83d\udc10
host\:port=127.0.0.1\:80
key=value
snowman=\u2603
```

Turn off the timestamp:

```
>>> print(javaproperties.dumps(properties, timestamp=None))
key=value
goat=\ud83d\udc10
host\:port=127.0.0.1\:80
snowman=\u2603
```

Use your own timestamp (automatically converted to local time):

```
>>> print(javaproperties.dumps(properties, timestamp=1234567890))
#Fri Feb 13 18:31:30 EST 2009
key=value
goat=\ud83d\udc10
host\:port=127.0.0.1\:80
snowman=\u2603
```

Dump as XML:

```
>>> print(javaproperties.dumps_xml(properties))
<!DOCTYPE properties SYSTEM "http://java.sun.com/dtd/properties.dtd">
<properties>
<entry key="key">value</entry>
<entry key="goat"></entry>
<entry key="host:port">127.0.0.1:80</entry>
<entry key="snowman"></entry>
<entry key="snowman"></entry>
</properties>
```

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