BuiltIn

Library version: 3.2.1
Library scope: GLOBAL
Named arguments: supported

Introduction

An always available standard library with often needed keywords.

BuiltIn is Robot Framework's standard library that provides a set of generic keywords needed often. It is imported automatically and thus always available. The provided keywords can be used, for example, for verifications (e.g. Should Be Equal, Should Contain), conversions (e.g. Convert To Integer) and for various other purposes (e.g. Log, Sleep, Run Keyword If, Set Global Variable).

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HTML error messages

Many of the keywords accept an optional error message to use if the keyword fails, and it is possible to use HTML in these messages by prefixing them with *HTML*. See Fail keyword for a usage example. Notice that using HTML in messages is not limited to Builtln library but works with any error message.

Evaluating expressions

Many keywords, such as Evaluate, Run Keyword If and Should Be True, accept an expression that is evaluated in Python.

Evaluation namespace

Expressions are evaluated using Python's eval function so that all Python built-ins like len() and int() are available. In addition to that, all unrecognized variables are considered to be modules that are automatically imported. It is possible to use all available Python modules, including the standard modules and the installed third party modules.

Examples

Should Be True	len('\${result}') > 3	
Run Keyword If	os.sep == '/'	Non-Windows Keyword
\${robot version} =	Evaluate	robotversion

Evaluate also allows configuring the execution namespace with a custom namespace and with custom modules to be imported. The latter functionality is useful when using nested modules like rootmod.submod that are implemented so that the root module does not automatically import sub modules. Otherwise the automatic module import mechanism described earlier is enough to get the needed modules imported.

NOTE: Automatic module import is a new feature in Robot Framework 3.2. Earlier modules needed to be explicitly taken into use when using the *Evaluate* keyword and other keywords only had access to sys and os modules.

Using variables

When a variable is used in the expressing using the normal \${variable} syntax, its value is replaced before the expression is evaluated. This means that the value used in the expression will be the string representation of the variable value, not the variable value itself. This is not a problem with numbers and other objects that have a string representation that can be evaluated directly, but with other objects the behavior depends on the string representation. Most importantly, strings must always be quoted, and if they can contain newlines, they must be triple quoted.

Examples:

ı	Should Be True	\${rc} < 10	Return code greater than 10	
	Run Keyword If	'\${status}' == 'PASS'	Log	Passed
	Run Keyword If	'FAIL' in ""\${output}""	Log	Output contains FAIL

Actual variables values are also available in the evaluation namespace. They can be accessed using special variable syntax without the curly braces like \$variable. These variables should never be quoted.

Examples:

Should Be True	\$rc < 10	Return code greater than 10	
Run Keyword If	\$status == 'PASS'	Log	Passed
Run Keyword If	'FAIL' in \$output	Log	Output contains FAIL
Should Be True	len(\$result) > 1 and \$result[1] == 'OK'		
Should Be True	\$result is not None		

Using the \$variable syntax slows down expression evaluation a little. This should not typically matter, but should be taken into account if complex expressions are evaluated often and there are strict time constrains.

Notice that instead of creating complicated expressions, it is often better to move the logic into a test library. That eases maintenance and can also enhance execution speed.

Boolean arguments

Some keywords accept arguments that are handled as Boolean values true or false. If such an argument is given as a string, it is considered false if it is an empty string or equal to FALSE, NONE, NO, OFF or 0, case-insensitively. Keywords verifying something that allow dropping actual and expected values from the possible error message also consider string no values to be false. Other strings are considered true unless the keyword documentation explicitly states otherwise, and other argument types are tested using the same rules as in Python.

True examples:

Should Be Equal	\${x}	\${y}	Custom error	values=True	# Strings are generally true.
Should Be Equal	\${x}	\${y}	Custom error	values=yes	# Same as the above.
Should Be Equal	\${x}	\${y}	Custom error	values=\${TRUE}	# Python True is true.
Should Be Equal	\${x}	\${y}	Custom error	values=\${42}	# Numbers other than 0 are true.

False examples

Should Be Equal	\${x}	\${y}	Custom error	values=False	# String false is false.
Should Be Equal	\${x}	\${y}	Custom error	values=no	# Also string no is false.
Should Be Equal	\${x}	\${y}	Custom error	values=\${EMPTY}	# Empty string is false.
Should Be Equal	\${x}	\${y}	Custom error	values=\${FALSE}	# Python False is false.
Should Be Equal	\${x}	\${y}	Custom error	values=no values	# no values works with values argument

Considering string NONE false is new in Robot Framework 3.0.3 and considering also OFF and 0 false is new in Robot Framework 3.1.

Pattern matching

Many keywords accepts arguments as either glob or regular expression patterns.

Glob patterns

Some keywords, for example Should Match, support so called glob patterns where:

*	matches any string, even an empty string
?	matches any single character
[chars]	matches one character in the bracket
[!chars]	matches one character not in the bracket
[a-z]	matches one character from the range in the bracket
[!a-z]	matches one character not from the range in the bracket

Unlike with glob patterns normally, path separator characters / and \ and the newline character \n are matches by the above wildcards.

Support for brackets like [abc] and [!a-z] is new in Robot Framework 3.1.

Regular expressions

Some keywords, for example Should Match Regexp, support regular expressions that are more powerful but also more complicated that glob patterns. The regular expression support is implemented using Python's re module and its documentation should be consulted for more information about the syntax.

Because the backslash character (\) is an escape character in Robot Framework test data, possible backslash characters in regular expressions need to be escaped with another backslash like \\d\\w+ . Strings that may contain special characters but should be handled as literal strings, can be escaped with the *Regexp Escape* keyword.

Multiline string comparison

Should Be Equal and Should Be Equal As Strings report the failures using unified diff format if both strings have more than two lines.

Example:

\${first} =	Catenate	SEPARATOR=\n	Not in second	Same	Differs	Same
\${second} =	Catenate	SEPARATOR=\n	Same	Differs2	Same	Not in first
Should Be Equal	\${first}	\${second}				

Results in the following error message:

```
Multiline strings are different:
--- first
+++ second
@@ -1,4 +1,4 @@
-Not in second
Same
-Differs
+Differs2
Same
+Not in first
```

String representations

Several keywords log values explicitly (e.g. Log) or implicitly (e.g. Should Be Equal when there are failures). By default keywords log values using "human readable" string representation, which means that strings like Hello and numbers like 42 are logged as-is. Most of the time this is the desired behavior, but there are some problems as well:

- It is not possible to see difference between different objects that have same string representation like string 42 and integer 42. Should Be Equal and some other keywords add the type information to the error message in these cases, though.
- Non-printable characters such as the null byte are not visible
- Trailing whitespace is not visible
- Different newlines (\r\n on Windows, \n elsewhere) cannot be separated from each others.
- There are several Unicode characters that are different but look the same. One example is the Latin a (\u0061) and the Cyrillic a (\u00430). Error messages like a != a are not very helpful.
- Some Unicode characters can be represented using different forms. For example, ä can be represented either as a single code point \u00e4 or using two code points \u00e4 and \u00e4 combined together. Such forms are considered canonically equivalent, but strings containing them are not considered equal when compared in Python. Error messages like ä != ä are not that helpful either.
- Containers such as lists and dictionaries are formatted into a single line making it hard to see individual items they contain.

To overcome the above problems, some keywords such as Log and Should Be Equal have an optional formatter argument that can be used to configure the string representation. The supported values are str (default), repr, and ascii that work similarly as Python built-in functions with same names. More detailed semantics are explained below.

The formatter argument is new in Robot Framework 3.1.2.

str

Use the "human readable" string representation. Equivalent to using str() in Python 3 and unicode() in Python 2. This is the default.

repr

Use the "machine readable" string representation. Similar to using repr() in Python, which means that strings like Hello are logged like 'Hello', newlines and non-printable characters are escaped like \n and \x00, and so on. Non-ASCII characters are shown as-is like \ddot{a} in Python 3 and in escaped format like \xe4 in Python 2. Use ascii to always get the escaped format.

There are also some enhancements compared to the standard repr():

- Bigger lists, dictionaries and other containers are pretty-printed so that there is one item per row.
- On Python 2 the u prefix is omitted with Unicode strings and the b prefix is added to byte strings

ascii

Same as using ascii() in Python 3 or repr() in Python 2 where ascii() does not exist. Similar to using repr explained above but with the following differences:

- On Python 3 non-ASCII characters are escaped like \xe4 instead of showing them as-is like ä. This makes it easier to see differences between Unicode characters that look the same but are not equal. This is how repr() works in Python 2.
- On Python 2 just uses the standard repr() meaning that Unicode strings get the u prefix and no b prefix is added to byte strings.
- Containers are not pretty-printed.

Shortcuts

Call Method · Catenate · Comment · Continue For Loop · Continue For Loop if · Convert To Binary · Convert To Bolean · Convert To Bytes · Convert To Hex · Convert To Integer · Convert To Number · Convert To Octal · Convert To String · Create Dictionary · Create List · Evaluate · Exit For Loop · Exit For Loop if · Fail · Fatal Error · Get Count · Get Length · Get Library Instance · Get Time · Get Variable · Value · Get Variables · Import Library · Import Resource · Import Variables · Keyword Should Exist · Length Should Be · Log · Log Many · Log To Console · Log Variables · No Operation · Pass Execution if · Regexp Escape · Reload Library · Remove Tags · Repeat Keyword · Replace Variables · Return From Keyword · Return From Keyword · Run Keyword · Run Keyword · Run Keyword · Run Keyword And Return · Run Keyword If · Run Keyword If

Keywords

Keyword	Arguments	Documentation				
Call Method	object, method_name,	Calls the named method of the given object with the provided arguments.				
	*args, **kwargs	The possible return value from the method is returned and can be assigned to a variable. Keyword fails both if the object does not have a method with the given name or if executing the method raises an exception.				
		Possible equal signs in arguments must be escaped with a backslash like \=.				
		Examples:				
		Call Method \${hashtable} put myname myvalue				
		\${isempty} = Call Method \${hashtable} isEmpty				
		Should Not Be True \$\(\){isempty} \$\\ \\${\value} = Call Method \$\(\){hashtable} get myname				
		Should Be Equal \${value} myvalue				
		Call Method \${object} kwargs name=value foo=bar Call Method \${object} positional escaped\=equals				
Catenate	*items	Catenates the given items together and returns the resulted string.				
		By default, items are catenated with spaces, but if the first item contains the string SEPARATOR= <sep>, the separator <sep> is</sep></sep>				
		used instead. Items are converted into strings when necessary.				
		Examples: \${str1} = Catenate Hello world				
		\$(str2) = Catenate SEPARATOR= Hello world				
		\$\str3\} = Catenate SEPARATOR= Hello world				
		=>				
		<pre>\${str1} = 'Hello world' \${str2} = 'Helloworld'</pre>				
		\${str3} = 'Helloworld'				
Comment	*messages	Displays the given messages in the log file as keyword arguments.				
		This keyword does nothing with the arguments it receives, but as they are visible in the log, this keyword can be used to display				
		simple messages. Given arguments are ignored so thoroughly that they can even contain non-existing variables. If you are interested about variable values, you can use the <i>Log</i> or <i>Log Many</i> keywords.				
Continue For Loop		Skips the current for loop iteration and continues from the next.				
		Skips the remaining keywords in the current for loop iteration and continues from the next one. Can be used directly in a for loop or				
		a keyword that the loop uses.				
		Example:				
		:FOR \${var} IN @{VALUES} Run Keyword If '\${var}' == 'CONTINUE' Continue For Loop				
		Do Something \${var}				
		See Continue For Loop If to conditionally continue a for loop without using Run Keyword If or other wrapper keywords.				
Continue For Loop	condition	Skips the current for loop iteration if the condition is true.				
-		A wrapper for Continue For Loop to continue a for loop based on the given condition. The condition is evaluated using the same semantics as with Should Be True keyword.				
		Example:				
		:FOR \${var} IN @{VALUES}				
		Continue For Loop If '\$(var)' == 'CONTINUE'				
Convert To Binom	itam haaa-Nana	Do Something \${var}				
Convert To Binary	item, base=None, prefix=None,	Converts the given item to a binary string. The item, with an optional base, is first converted to an integer using Convert To Integer internally. After that it is converted to a				
	length=None	binary number (base 2) represented as a string such as 1011.				
		The returned value can contain an optional prefix and can be required to be of minimum length (excluding the prefix and a				
		possible minus sign). If the value is initially shorter than the required length, it is padded with zeros.				
		Examples:				
		\${result} = Convert To Binary 10				
		\$\text{result} = \text{Convert To Binary } -2 \text{ prefix=B } \text{ length=4 } \text{ # Result is -B0010}				
		See also Convert To Integer, Convert To Octal and Convert To Hex.				
Convert To Boolean	ıtem	Converts the given item to Boolean true or false.				
		Handles strings True and False (case-insensitive) as expected, otherwise returns item's truth value using Python's bool() method.				
Convert To Bytes	input,	Converts the given input to bytes according to the input_type.				
	input_type=text	Valid input types are listed below:				
		text: Converts text to bytes character by character. All characters with ordinal below 256 can be used and are converted to				
		bytes with same values. Many characters are easiest to represent using escapes like \x00 or \xff. Supports both Unicode strings and bytes.				
		• int: Converts integers separated by spaces to bytes. Similarly as with Convert To Integer, it is possible to use binary, octal,				
		or hex values by prefixing the values with 0b, 0o, or 0x, respectively.				
		puerk/letect/libraries/Builtle html				

■ hex: Converts hexadecimal values to bytes. Single byte is always two characters long (e.g. 01 or FF). Spaces are ignored and can be used freely as a visual separator.

• bin: Converts binary values to bytes. Single byte is always eight characters long (e.g. 00001010). Spaces are ignored and can be used freely as a visual separator.

In addition to giving the input as a string, it is possible to use lists or other iterables containing individual characters or numbers. In that case numbers do not need to be padded to certain length and they cannot contain extra spaces.

Examples (last column shows returned bytes):

\${bytes} =	Convert To Bytes	hyvä		# hyv\xe4
\${bytes} =	Convert To Bytes	\xff\x07		# \xff\x07
\${bytes} =	Convert To Bytes	82 70	int	# RF
\${bytes} =	Convert To Bytes	0b10 0x10	int	# \x02\x10
\${bytes} =	Convert To Bytes	ff 00 07	hex	# \xff\x00\x07
\${bytes} =	Convert To Bytes	5246212121	hex	# RF!!!
\${bytes} =	Convert To Bytes	0000 1000	bin	#\x08
\${input} =	Create List	1	2	12
\${bytes} =	Convert To Bytes	\${input}	int	# \x01\x02\x0c
\${bytes} =	Convert To Bytes	\${input}	hex	# \x01\x02\x12

Use Encode String To Bytes in String library if you need to convert text to bytes using a certain encoding.

Convert To Hex

item, base=None, prefix=None, length=None, lowercase=False Converts the given item to a hexadecimal string

The item, with an optional base, is first converted to an integer using Convert To Integer internally. After that it is converted to a hexadecimal number (base 16) represented as a string such as FF0A.

The returned value can contain an optional prefix and can be required to be of minimum length (excluding the prefix and a possible minus sign). If the value is initially shorter than the required length, it is padded with zeros.

By default the value is returned as an upper case string, but the lowercase argument a true value (see Boolean arguments) turns the value (but not the given prefix) to lower case.

Examples:

\${result} =	Convert To Hex	255			# Result is FF
\${result} =	Convert To Hex	-10	prefix=0x	length=2	# Result is -0x0A
\${result} =	Convert To Hex	255	prefix=X	lowercase=yes	# Result is Xff

See also Convert To Integer, Convert To Binary and Convert To Octal.

Convert To Integer item, ba

item, base=None

Converts the given item to an integer number.

If the given item is a string, it is by default expected to be an integer in base 10. There are two ways to convert from other bases:

- Give base explicitly to the keyword as base argument.
- Prefix the given string with the base so that 0b means binary (base 2), 0o means octal (base 8), and 0x means hex (base 16). The prefix is considered only when base argument is not given and may itself be prefixed with a plus or minus sign.

The syntax is case-insensitive and possible spaces are ignored.

Examples:

\${result} =	Convert To Integer	100		# Result is 100
\${result} =	Convert To Integer	FF AA	16	# Result is 65450
\${result} =	Convert To Integer	100	8	# Result is 64
\${result} =	Convert To Integer	-100	2	# Result is -4
\${result} =	Convert To Integer	0b100		# Result is 4
\${result} =	Convert To Integer	-0x100		# Result is -256

See also Convert To Number, Convert To Binary, Convert To Octal, Convert To Hex, and Convert To Bytes.

Convert To Number item,

item, precision=None Converts the given item to a floating point number.

If the optional precision is positive or zero, the returned number is rounded to that number of decimal digits. Negative precision means that the number is rounded to the closest multiple of 10 to the power of the absolute precision. If a number is equally close to a certain precision, it is always rounded away from zero.

Examples:

\${result} =	Convert To Number	42.512		# Result is 42.512
\${result} =	Convert To Number	42.512	1	# Result is 42.5
\${result} =	Convert To Number	42.512	0	# Result is 43.0
\${result} =	Convert To Number	42.512	-1	# Result is 40.0

Notice that machines generally cannot store floating point numbers accurately. This may cause surprises with these numbers in general and also when they are rounded. For more information see, for example, these resources:

- http://docs.python.org/tutorial/floatingpoint.html
- http://randomascii.wordpress.com/2012/02/25/comparing-floating-point-numbers-2012-edition

If you want to avoid possible problems with floating point numbers, you can implement custom keywords using Python's decimal or fractions modules.

If you need an integer number, use Convert To Integer instead

Convert To Octal

item, base=None, prefix=None, length=None Converts the given item to an octal string.

The item, with an optional base, is first converted to an integer using Convert To Integer internally. After that it is converted to an octal number (base 8) represented as a string such as 775.

The returned value can contain an optional prefix and can be required to be of minimum length (excluding the prefix and a possible minus sign). If the value is initially shorter than the required length, it is padded with zeros.

Examples:

\${result} =	Convert To Octal	10			# Result is 12
\${result} =	Convert To Octal	-F	base=16	prefix=0	# Result is -017
\${result} =	Convert To Octal	16	prefix=oct	length=4	# Result is oct0020

See also Convert To Integer, Convert To Binary and Convert To Hex.

Convert To String

Create Dictionary

item

*items

Converts the given item to a Unicode string.

Strings are also NFC normalized

Use Encode String To Bytes and Decode Bytes To String keywords in String library if you need to convert between Unicode and byte strings using different encodings. Use Convert To Bytes if you just want to create byte strings.

Creates and returns a dictionary based on the given items.

https://robotframework.org/robotframework/latest/libraries/BuiltIn.html

Items are typically given using the key=value syntax same way as &{dictionary} variables are created in the Variable table. Both keys and values can contain variables, and possible equal sign in key can be escaped with a backslash like escaped\=key=value. It is also possible to get items from existing dictionaries by simply using them like &{dict}.

Alternatively items can be specified so that keys and values are given separately. This and the key=value syntax can even be combined, but separately given items must be first. If same key is used multiple times, the last value has precedence.

The returned dictionary is ordered, and values with strings as keys can also be accessed using a convenient dot-access syntax like \${dict.key}. Technically the returned dictionary is Robot Framework's own DotDict instance. If there is a need, it can be converted into a regular Python dict instance by using the Convert To Dictionary keyword from the Collections library.

Examples:

&{dict} =	Create Dictionary	key=value	foo=bar			# key=value syntax
Should Be True	\${dict} == {'key': 'value', 'foo': 'bar'}					
&{dict2} =	Create Dictionary	key	value	foo	bar	# separate key and value
Should Be Equal	\${dict}	\${dict2}				
&{dict} =	Create Dictionary	\${1}=\${2}	&{dict}	foo=new		# using variables
Should Be True	\${dict} == {1: 2, 'key': 'value', 'foo': 'new'}					
Should Be Equal	\${dict.key}	value				# dot-access

Create List *items

Returns a list containing given items

The returned list can be assigned both to \${scalar} and @{list} variables.

Examples:

@{list} =	Create List	а	b	С
\${scalar} =	Create List	а	b	С
\${ints} =	Create List	\${1}	\${2}	\${3}

Evaluate

expression, modules=None, namespace=None Evaluates the given expression in Python and returns the result.

expression is evaluated in Python as explained in the Evaluating expressions section.

modules argument can be used to specify a comma separated list of Python modules to be imported and added to the evaluation namespace.

namespace argument can be used to pass a custom evaluation namespace as a dictionary. Possible modules are added to this namespace.

Starting from Robot Framework 3.2, modules used in the expression are imported automatically. modules argument is still needed with nested modules like rootmod.submod that are implemented so that the root module does not automatically import sub modules. This is illustrated by the selenium.webdriver example below.

Variables used like \${variable} are replaced in the expression before evaluation. Variables are also available in the evaluation namespace and can be accessed using the special \$variable syntax as explained in the *Evaluating expressions* section.

Examples (expecting \${result} is number 3.14):

\${status} =	Evaluate	0 < \${result} < 10	# Would also work with string '3.14'
\${status} =	Evaluate	0 < \$result < 10	# Using variable itself, not string representation
\${random} =	Evaluate	random.randint(0, sys.maxsize)	
\${options} =	Evaluate	selenium.webdriver.ChromeOptions()	modules=selenium.webdriver
\${ns} =	Create Dictionary	x=\${4}	y=\${2}
\${result} =	Evaluate	x*10 + y	namespace=\${ns}

=>

\${status} = True
\${random} = <random integer>
\${options} = ChromeOptions instance
\${result} = 42

NOTE: Prior to Robot Framework 3.2 using modules=rootmod.submod was not enough to make the root module itself available in the evaluation namespace. It needed to be taken into use explicitly like modules=rootmod, rootmod.submod.

Exit For Loop

Stops executing the enclosing for loop.

Exits the enclosing for loop and continues execution after it. Can be used directly in a for loop or in a keyword that the loop uses.

Example:

:FOR	\${var}	IN	@{VALUES}	
	Run Keyword If	'\${var}' == 'EXIT'	Exit For Loop	
	Do Something	\${var}		

See Exit For Loop If to conditionally exit a for loop without using Run Keyword If or other wrapper keywords.

Exit For Loop If

condition

Stops executing the enclosing for loop if the condition is true.

A wrapper for Exit For Loop to exit a for loop based on the given condition. The condition is evaluated using the same semantics as with Should Be True keyword.

Example:

:FOR	\${var}	IN	@{VALUES}
	Exit For Loop If	'\${var}' == 'EXIT'	
	Do Something	\${var}	

Fail

msg=None, *tags

Fails the test with the given message and optionally alters its tags.

The error message is specified using the msg argument. It is possible to use HTML in the given error message, similarly as with any other keyword accepting an error message, by prefixing the error with *HTML*.

It is possible to modify tags of the current test case by passing tags after the message. Tags starting with a hyphen (e.g. - regression) are removed and others added. Tags are modified using Set Tags and Remove Tags internally, and the semantics setting and removing them are the same as with these keywords.

Examples:

Fail	Test not ready			# Fails with the given message.
Fail	*HTML* Test not ready			# Fails using HTML in the message.
Fail	Test not ready	not-ready		# Fails and adds 'not-ready' tag.
Fail	OS not supported	-regression		# Removes tag 'regression'.
Fail	My message	tag	-t*	# Removes all tags starting with 't' except the newly added 'tag'.

See Fatal Error if you need to stop the whole test execution.

Fatal Error

msg=None

Stops the whole test execution.

The test or suite where this keyword is used fails with the provided message, and subsequent tests fail with a canned message. Possible teardowns will nevertheless be executed. See Fail if you only want to stop one test case unconditionally. Get Count container, item Returns and logs how many times item is found from container. This keyword works with Python strings and lists and all objects that either have count method or can be converted to Python lists. Example: \${count} = Get Count \${some item} interesting value Should Be True 5 < \${count} < 10 **Get Length** item Returns and logs the length of the given item as an integer. The item can be anything that has a length, for example, a string, a list, or a mapping. The keyword first tries to get the length with the Python function len, which calls the item's <u>len</u> method internally. If that fails, the keyword tries to call the item's possible length and size methods directly. The final attempt is trying to get the value of the item's length attribute. If all these attempts are unsuccessful, the keyword fails, \${length} = Get Length | Hello, world! Should Be Equal As Integers \${length} Create List Hello @{list} = world! Get Length \${list} \${length} = Should Be Equal As Integers \${length} See also Length Should Be, Should Be Empty and Should Not Be Empty. **Get Library** name=None, Returns the currently active instance of the specified test library. all=False Instance This keyword makes it easy for test libraries to interact with other test libraries that have state. This is illustrated by the Python example below from robot.libraries.BuiltIn import BuiltIn def title_should_start_with(expected): seleniumlib = BuiltIn().get_library_instance('SeleniumLibrary') title = seleniumlib.get_title() if not title.startswith(expected): raise AssertionError("Title '%s' did not start with '%s'" % (title, expected)) It is also possible to use this keyword in the test data and pass the returned library instance to another keyword. If a library is imported with a custom name, the name used to get the instance must be that name and not the original library name. If the optional argument all is given a true value, then a dictionary mapping all library names to instances will be returned. Example &{all libs} = Get library instance | all=True Get Time format=timestamp. Returns the given time in the requested format time_=NOW NOTE: DateTime library contains much more flexible keywords for getting the current date and time and for date and time handling in general. How time is returned is determined based on the given format string as follows. Note that all checks are case-insensitive. 1) If format contains the word epoch, the time is returned in seconds after the UNIX epoch (1970-01-01 00:00:00 UTC). The return value is always an integer 2) If format contains any of the words year, month, day, hour, min, or sec, only the selected parts are returned. The order of the returned parts is always the one in the previous sentence and the order of words in format is not significant. The parts are returned as zero-padded strings (e.g. May -> 05). 3) Otherwise (and by default) the time is returned as a timestamp string in the format 2006-02-24 15:08:31. By default this keyword returns the current local time, but that can be altered using time argument as explained below. Note that all 1) If time is a number, or a string that can be converted to a number, it is interpreted as seconds since the UNIX epoch. This documentation was originally written about 1177654467 seconds after the epoch. 2) If time is a timestamp, that time will be used. Valid timestamp formats are YYYY-MM-DD hh:mm:ss and YYYYMMDD hhmmss. 3) If time is equal to NOW (default), the current local time is used. 4) If time is equal to UTC, the current time in UTC is used. 5) If time is in the format like NOW - 1 day or UTC + 1 hour 30 min, the current local/UTC time plus/minus the time specified with the time string is used. The time string format is described in an appendix of Robot Framework User Guide. Examples (expecting the current local time is 2006-03-29 15:06:21): \${time} = Get Time \${secs} = Get Time epoch \${year} = Get Time return year \${yyyy} \${mm} \${dd} = Get Time vear.month.day @{time} = Get Time | year month day hour min sec \${y} \${s} = Get Time seconds and year => \${time} = '2006-03-29 15:06:21' \${secs} = 1143637581 \${year} = '2006' \${yyyy} = '2006', \${mm} = '03', \${dd} = '29' @{time} = ['2006', '03', '29', '15', '06', '21'] $\{y\} = '2006'$ \${s} = '21' Examples (expecting the current local time is 2006-03-29 15:06:21 and UTC time is 2006-03-29 12:06:21): 1177654467 # Time given as epoch seconds \${time} = Get Time \${secs} = Get Time sec 2007-04-27 09:14:27 # Time given as a timestamp

\${year} = Get Time year

NOW

@{time} = Get Time hour min sec NOW + 1h 2min 3s

The local time of execution

1h 2min 3s added to the local time

//23/2020		BuiltIn
		@{utc} = Get Time hour min sec UTC #The UTC time of execution \${hour} = Get Time hour UTC - 1 hour #1h subtracted from the UTC time
		squoui - Germine moui ore-rinoui # msubulacted nom the ore time
		\${time} = '2007-04-27 09:14:27'
		\${secs} = 27
		\${year} = '2006' @{time} = ['16', '08', '24']
		@{utc} = ['12', '06', '21']
		\${hour} = '11'
Get Variable Value	name, default=None	Returns variable value or default if the variable does not exist.
		The name of the variable can be given either as a normal variable name (e.g. \${NAME}) or in escaped format (e.g. \\${NAME}). Notice that the former has some limitations explained in Set Suite Variable.
		Examples:
		\${x} = Get Variable Value \${a} default
		\${y} = Get Variable Value \${a} \${b} \${z} = Get Variable Value \${z}
		=>
		<pre>\${x} gets value of \${a} if \${a} exists and string 'default' otherwise</pre>
		\$\{y\} gets value of \$\{a\} if \$\{a\} exists and value of \$\{b\} otherwise
		\${z} is set to Python None if it does not exist previously See Set Variable If for another keyword to set variables dynamically.
Get Variables	no decoration=False	Returns a dictionary containing all variables in the current scope.
		Variables are returned as a special dictionary that allows accessing variables in space, case, and underscore insensitive manner
		similarly as accessing variables in the test data. This dictionary supports all same operations as normal Python dictionaries and, for example, Collections library can be used to access or modify it. Modifying the returned dictionary has no effect on the variables available in the current scope.
		By default variables are returned with \${}, @{} or &{} decoration based on variable types. Giving a true value (see Boolean
		arguments) to the optional argument no_decoration will return the variables without the decoration.
		Example: \${example variable} = Set Variable example value
		\${variables} = Get Variables
		Dictionary Should Contain Key \${variables} \\${example_variable} Dictionary Should Contain Key \${variables} \\${ExampleVariable}
		Set To Dictionary \${variables} \\${name} value
		Variable Should Not Exist \\${name} \\${no decoration} = Get Variables \no_decoration=Yes
Import Library		Dictionary Should Contain Key \$\infty \frac{\\$no decoration}{\} example_variable
		This functionality allows dynamic importing of libraries while tests are running. That may be necessary, if the library itself is dynamic and not yet available when test data is processed. In a normal case, libraries should be imported using the Library setting in the Setting table. This keyword supports importing libraries both using library names and physical paths. When paths are used, they must be given in absolute format or found from search path. Forward slashes can be used as path separators in all operating systems. It is possible to pass arguments to the imported library and also named argument syntax works if the library supports it. WITH NAME syntax can be used to give a custom name to the imported library.
		Examples:
		Import Library MyLibrary
		Import Library \${CURDIR}//Library.py arg1 named=arg2 Import Library \${LIBRARIES}/Lib.java arg WITH NAME JavaLib
Import Resource	path	Imports a resource file with the given path.
•		Resources imported with this keyword are set into the test suite scope similarly when importing them in the Setting table using the Resource setting.
		The given path must be absolute or found from search path. Forward slashes can be used as path separator regardless the operation
		system.
		Examples: Import Resource \${CURDIR}/resource.txt
		Import Resource \${CURDIR}//resource.html
lmnart Variables	noth *orgo	Import Resource found_from_pythonpath.robot
Import Variables	path, *args	Imports a variable file with the given path and optional arguments. Variables imported with this keyword are set into the test suite scope similarly when importing them in the Setting table using the
		Variables setting. These variables override possible existing variables with the same names. This functionality can thus be used to import new variables, for example, for each test in a test suite.
		The given path must be absolute or found from search path. Forward slashes can be used as path separator regardless the operation system.
		Examples:
		Import Variables \${CURDIR}/variables.py Import Variables \${CURDIR}//vars/env.py arg1 arg2 Import Variables file from_pythonpath.py
Keyword Should	name, msg=None	Fails unless the given keyword exists in the current scope.
Exist		Fails also if there are more than one keywords with the same name. Works both with the short name (e.g. Log) and the full name (e.g. BuiltIn.Log).
		The default error message can be overridden with the msg argument.
		See also Variable Should Exist.
Length Should Be	item, length, msg=None	Verifies that the length of the given item is correct.
		The length of the item is got using the Get Length keyword. The default error message can be overridden with the msg argument.
Log	message,	Logs the given message with the given level.

level=INFO Valid levels are TRACE, DEBUG, INFO (default), HTML, WARN, and ERROR. Messages below the current active log level are html=False ignored. See Set Log Level keyword and --loglevel command line option for more details about setting the level console=False Messages logged with the WARN or ERROR levels will be automatically visible also in the console and in the Test Execution Errors repr=False section in the log file formatter=str If the html argument is given a true value (see Boolean arguments), the message will be considered HTML and special characters such as < are not escaped. For example, logging creates an image when html is true, but otherwise the message is that exact string. An alternative to using the html argument is using the HTML pseudo log level. It logs the message as HTML using the INFO level If the console argument is true, the message will be written to the console where test execution was started from in addition to the log file. This keyword always uses the standard output stream and adds a newline after the written message. Use Log To Console instead if either of these is undesirable, The formatter argument controls how to format the string representation of the message. Possible values are str (default), repr and ascii, and they work similarly to Python built-in functions with same names. When using repr, bigger lists, dictionaries and other containers are also pretty-printed so that there is one item per row. For more details see String representations This is a new feature in Robot Framework 3.1.2 The old way to control string representation was using the repr argument, and repr=True is still equivalent to using formatter=repr . The repr argument will be deprecated in the future, though, and using formatter is thus recommended. Log Hello, world! # Normal INFO message. Log Warning, world! WARN # Warning. Log Hello, world! html=yes # INFO message as HTML Log Hello, world! HTML # Same as above Log | Hello, world! | DEBUG html=true # DEBUG as HTML Log Hello, console! console=yes # Log also to the console Log Null is \x00 formatter=repr #Log 'Null is \x00' See Log Many if you want to log multiple messages in one go, and Log To Console if you only want to write to the console. Log Many *messages Logs the given messages as separate entries using the INFO level. Supports also logging list and dictionary variable items individually Examples Log Many Hello \$\{var} Log Many @{list} &{dict} See Log and Log To Console keywords if you want to use alternative log levels, use HTML, or log to the console. Log To Console message, stream=STDOUT. Logs the given message to the console. By default uses the standard output stream. Using the standard error stream is possibly by giving the stream argument value no newline=False STDERR (case-insensitive) By default appends a newline to the logged message. This can be disabled by giving the no_newline argument a true value (see Boolean arguments). Examples: Log To Console Hello, console! STDERR Log To Console | Hello, stderr! Log To Console | Message starts here and is | no_newline=true Log To Console | continued without newline. This keyword does not log the message to the normal log file. Use Log keyword, possibly with argument console, if that is desired. Log Variables level=INFO Logs all variables in the current scope with given log level. No Operation Does absolutely nothing. Pass Execution message, *tags Skips rest of the current test, setup, or teardown with PASS status. This keyword can be used anywhere in the test data, but the place where used affects the behavior: When used in any setup or teardown (suite, test or keyword), passes that setup or teardown. Possible keyword teardowns of the started keywords are executed. Does not affect execution or statuses otherwise When used in a test outside setup or teardown, passes that particular test case. Possible test and keyword teardowns are executed Possible continuable failures before this keyword is used, as well as failures in executed teardowns, will fail the execution. It is mandatory to give a message explaining why execution was passed. By default the message is considered plain text, but starting it with *HTML* allows using HTML formatting It is also possible to modify test tags passing tags after the message similarly as with Fail keyword. Tags starting with a hyphen (e.g. -regression) are removed and others added. Tags are modified using Set Tags and Remove Tags internally, and the semantics setting and removing them are the same as with these keywords. Examples: Pass Execution All features available in this version tested. Pass Execution | Deprecated test. deprecated -regression This keyword is typically wrapped to some other keyword, such as Run Keyword If, to pass based on a condition. The most common case can be handled also with Pass Execution If: Run Keyword If \${rc} < 0 Pass Execution Negative values are cool. Pass Execution If \${rc} < 0 Negative values are cool. Passing execution in the middle of a test, setup or teardown should be used with care. In the worst case it leads to tests that skip all the parts that could actually uncover problems in the tested application. In cases where execution cannot continue do to external factors, it is often safer to fail the test case and make it non-critical. Pass Execution If condition, message, onditionally skips rest of the current test, setup, or teardown with PASS status *tags A wrapper for Pass Execution to skip rest of the current test, setup or teardown based the given condition. The condition is evaluated similarly as with Should Be True keyword, and message and *tags have same semantics as with Pass Execution. :FOR \${var} IN @{VALUES} Pass Execution If '\${var}' == 'EXPECTED' | Correct value was found Do Something \${var} Regexp Escape *patterns Returns each argument string escaped for use as a regular expression. This keyword can be used to escape strings to be used with Should Match Regexp and Should Not Match Regexp keywords.

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		Escaping is done with Python's re.escape() function.
		Examples:
		\${escaped} = Regexp Escape \${original} @{strings} = Regexp Escape @{strings}
Reload Library	name_or_instance	Rechecks what keywords the specified library provides.
		Can be called explicitly in the test data or by a library itself when keywords it provides have changed.
		The library can be specified by its name or as the active instance of the library. The latter is especially useful if the library itself calls this keyword as a method.
Remove Tags	*tags	Removes given tags from the current test or all tests in a suite.
		Tags can be given exactly or using a pattern with *, ? and [chars] acting as wildcards. See the <i>Glob patterns</i> section for more information.
		This keyword can affect either one test case or all test cases in a test suite similarly as Set Tags keyword.
		The current tags are available as a built-in variable @{TEST TAGS}.
		Example:
		Remove Tags mytag something-* ?ython
Repeat Keyword	repeat, name, *args	See Set Tags if you want to add certain tags and Fail if you want to fail the test case after setting and/or removing tags.
Repeat Reyword	repeat, name, args	Executes the specified keyword multiple times. name and args define the keyword that is executed similarly as with <i>Run Keyword</i> . repeat specifies how many times (as a
		count) or how long time (as a timeout) the keyword should be executed.
		If repeat is given as count, it specifies how many times the keyword should be executed. repeat can be given as an integer or a string that can be converted to an integer. If it is a string, it can have postfix times or x (case and space insensitive) to make the expression more explicit.
		If repeat is given as timeout, it must be in Robot Framework's time format (e.g. 1 minute, 2 min 3 s). Using a number alone (e.g. 1 or 1.5) does not work in this context.
		If repeat is zero or negative, the keyword is not executed at all. This keyword fails immediately if any of the execution rounds fails
		Examples:
		Repeat Keyword 5 times Go to Previous Page Repeat Keyword \${var} Some Keyword arg1 arg2 Repeat Keyword 2 minutes Some Keyword arg1 arg2
		Specifying repeat as a timeout is new in Robot Framework 3.0.
Replace Variables	text	Replaces variables in the given text with their current values.
		If the text contains undefined variables, this keyword fails. If the given text contains only a single variable, its value is returned as-
		is and it can be any object. Otherwise this keyword always returns a string.
		Example:
		The file template.txt contains Hello \${NAME}! and variable \${NAME} has the value Robot.
		\${template} = Get File \${CURDIR}/template.txt \${message} = Replace Variables \${template}
		Should Be Equal \${message} Hello Robot!
Return From Keyword	*return_values	Returns from the enclosing user keyword.
		This keyword can be used to return from a user keyword with PASS status without executing it fully. It is also possible to return value similarly as with the [Return] setting. For more detailed information about working with the return values, see the User Guide.
		This keyword is typically wrapped to some other keyword, such as Run Keyword If or Run Keyword If Test Passed, to return based on a condition:
		Run Keyword If \${rc} < 0 Return From Keyword
		Run Keyword If Test Passed Return From Keyword
		It is possible to use this keyword to return from a keyword also inside a for loop. That, as well as returning values, is demonstrated to the <i>Find Index</i> keyword in the following somewhat advanced example. Notice that it is often a good idea to move this kind of complicated logic into a test library.
		*** Variables *** @{LIST} = foo baz
		*** Test Cases ***
		Example
		<pre>\${index} = Find Index baz @{LIST} Should Be Equal \${index} \${1}</pre>
		<pre>\${index} = Find Index non existing @{LIST} Should Be Equal \${index} \${-1}</pre>
		*** Keywords ***
		Find Index
		[Arguments] \${element} @{items} \${index} = Set Variable \${0}
		:FOR \${item} IN @{items}
		\ Run Keyword If '\${item}' == '\${element}' Return From Keyword \${index} \ \${index} = Set Variable \${index + 1}
		Return From Keyword \${-1} # Also [Return] would work here. The most common use case, returning based on an expression, can be accomplished directly with Return From Keyword If. See also have been seen as a Burn Keyword And Deturn If.
Return From	condition	Run Keyword And Return and Run Keyword And Return If. Returns from the enclosing user keyword if condition is true.
Return From Keyword If	condition, *return_values	Returns from the enclosing user keyword if condition is true. A wrapper for Return From Keyword to return based on the given condition. The condition is evaluated using the same semantics a
		with Should Be True keyword.
		Given the same example as in Return From Keyword, we can rewrite the Find Index keyword as follows:
		*** Keywords *** Find Index
		[Arguments] \${element} @{items}
no-Urohottromou	lark aralrahattrama	work/latast/librarias/Ruiltln.html

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		<pre>\$\{\text{index}\} = Set Variable \$\{0\} :FOR \$\{\text{item}\} IN @\{\text{item}\}' == '\{\text{element}\}' \$\{\text{index}\} \ Return From Keyword If '\{\text{item}\}' == '\{\text{element}\}' \$\{\text{index}\} \ \\$\{\text{index}\} = Set Variable \$\{\text{index} + 1\} Return From Keyword \$\{-1\} # Also [Return] would work here.</pre>
D V	•	See also Run Keyword And Return and Run Keyword And Return If.
Run Keyword	name, *args	Executes the given keyword with the given arguments. Because the name of the keyword to execute is given as an argument, it can be a variable and thus set dynamically, e.g. from a return value of another keyword or from the command line.
Run Keyword And	name, *args	Runs the keyword and continues execution even if a failure occurs.
Continue On Failure		The keyword name and arguments work as with <i>Run Keyword</i> . Example: Run Keyword And Continue On Failure Fail This is a stupid example
		The execution is not continued if the failure is caused by invalid syntax, timeout, or fatal exception.
Run Keyword And	expected_error,	Runs the keyword and checks that the expected error occurred.
Expect Error	name, *args	The keyword to execute and its arguments are specified using name and *args exactly like with Run Keyword.
		The expected error must be given in the same format as in Robot Framework reports. By default it is interpreted as a glob pattern with *, ? and [chars] as wildcards, but starting from Robot Framework 3.1 that can be changed by using various prefixes explained in the table below. Prefixes are case-sensitive and they must be separated from the actual message with a colon and an optional space like PREFIX: Message or PREFIX:Message. Prefix Explanation
		EQUALS Exact match. Especially useful if the error contains glob wildcards. STARTS Error must start with the specified error. REGEXP Regular expression match. GLOB Same as the default behavior.
		See the <i>Pattern matching</i> section for more information about glob patterns and regular expressions.
		If the expected error occurs, the error message is returned and it can be further processed or tested if needed. If there is no error, or the error does not match the expected error, this keyword fails. Examples:
		Run Keyword And Expect Error My error Keyword arg
		Run Keyword And Expect Error ValueError: * Some Keyword Run Keyword And Expect Error STARTS: ValueError: Some Keyword Run Keyword And Expect Error EQUALS:No match for '//input[@type="text"]' Figure 1: **Comparison** Run Keyword And Expect Error Equals:No match for '//input[@type="text"]' **Comparison** **Compar
		Find Element //input[@type="text"]
		Keyword arg1 arg2 Log To Console \${msg}
		Errors caused by invalid syntax, timeouts, or fatal exceptions are not caught by this keyword.
Run Keyword And	name, *args	Runs the given keyword with the given arguments and ignores possible error.
Ignore Érror		This keyword returns two values, so that the first is either string PASS or FAIL, depending on the status of the executed keyword. The second value is either the return value of the keyword or the received error message. See Run Keyword And Return Status If you are only interested in the execution status. The keyword name and arguments work as in Run Keyword. See Run Keyword If for a usage example. Errors caused by invalid syntax, timeouts, or fatal exceptions are not caught by this keyword. Otherwise this keyword itself never fails.
Run Keyword And	name, *args	Runs the specified keyword and returns from the enclosing user keyword.
Return		The keyword to execute is defined with name and *args exactly like with <i>Run Keyword</i> . After running the keyword, returns from the enclosing user keyword and passes possible return value from the executed keyword further. Returning from a keyword has exactly same semantics as with <i>Return From Keyword</i> . Example:
		Run Keyword And Return My Keyword arg1 arg2 # Above is equivalent to: \${result} = My Keyword arg1 arg2 Return From Keyword \${result}
		Use Run Keyword And Return If if you want to run keyword and return based on a condition.
Run Keyword And Return If	condition, name, *args	Runs the specified keyword and returns from the enclosing user keyword. A wrapper for <i>Run Keyword And Return</i> to run and return based on the given condition. The condition is evaluated using the same semantics as with <i>Should Be True</i> keyword. Example:
		Run Keyword And Return If \${rc} > 0 My Keyword arg1 arg2 # Above is equivalent to: \${rc} > 0 Run Keyword And Return My Keyword arg1 arg2
Run Keyword And	name, *args	Use Return From Keyword If if you want to return a certain value based on a condition. Runs the given keyword with given arguments and returns the status as a Roolean value.
Return Status	name, arys	Runs the given keyword with given arguments and returns the status as a Boolean value. This keyword returns Boolean True if the keyword that is executed succeeds and False if it fails. This is useful, for example, in combination with Run Keyword If. If you are interested in the error message or return value, use Run Keyword And Ignore Error instead.
		The keyword name and arguments work as in <i>Run Keyword</i> . Example:
	I .	
		\${passed} = Run Keyword And Return Status Keyword args Run Keyword If \${passed} Another keyword Errors caused by invalid syntax timeouts or fatal exceptions are not caught by this keyword. Otherwise this keyword itself never
		i i

The given condition is evaluated in Python as explained in *Evaluating expressions*, and name and *args have same semantics as with *Run Keyword*.

Example, a simple if/else construct:

\${status}	\${value} =	Run Keyword And Ignore Error	My Keyword
Run Keyword If	'\${status}' == 'PASS'	Some Action	arg
Run Keyword Unless	'\${status}' == 'PASS'	Another Action	

In this example, only either Some Action or Another Action is executed, based on the status of My Keyword. Instead of Run Keyword And Ignore Error you can also use Run Keyword And Return Status.

Variables used like \${variable}, as in the examples above, are replaced in the expression before evaluation. Variables are also available in the evaluation namespace and can be accessed using special syntax \$variable as explained in the Evaluating expressions section.

Example:

Run Keyword If | \$result is None or \$result == 'FAIL' | Keyword

This keyword supports also optional ELSE and ELSE IF branches. Both of them are defined in *args and must use exactly format ELSE or ELSE IF, respectively. ELSE branches must contain first the name of the keyword to execute and then its possible arguments. ELSE IF branches must first contain a condition, like the first argument to this keyword, and then the keyword to execute and its possible arguments. It is possible to have ELSE branch after ELSE IF and to have multiple ELSE IF branches. Nested Run Keyword If usage is not supported when using ELSE and/or ELSE IF branches.

Given previous example, if/else construct can also be created like this:

\${status}	\${value} =	Run Keyword And Ignore Error	My Keyword		
Run Keyword If	'\${status}' == 'PASS'	Some Action	arg	ELSE	Another Action

The return value of this keyword is the return value of the actually executed keyword or Python None if no keyword was executed (i.e. if condition was false). Hence, it is recommended to use ELSE and/or ELSE IF branches to conditionally assign return values from keyword to variables (see Set Variable If if you need to set fixed values conditionally). This is illustrated by the example below:

\${var1} =	Run Keyword If	\${rc} == 0	Some keyword returning a value		
	ELSE IF	0 < \${rc} < 42	Another keyword		
	ELSE IF	\${rc} < 0	Another keyword with args	\${rc}	arg2
	ELSE	Final keyword to handle abnormal cases	\${rc}		
\${var2} =	Run Keyword If	\${condition}	Some keyword		

In this example, \${var2} will be set to None if \${condition} is false.

Notice that ELSE and ELSE IF control words must be used explicitly and thus cannot come from variables. If you need to use literal ELSE and ELSE IF strings as arguments, you can escape them with a backslash like \ELSE and \ELSE IF.

Python's os and sys modules are automatically imported when evaluating the condition. Attributes they contain can thus be used in the condition:

Run Keyword If	os.sep == '/'	Unix Keyword	
	ELSE IF	sys.platform.startswith('java')	Jython Keyword
	ELSE	Windows Keyword	

Run Keyword If All	name, *args
Critical Tests	
Passed	

Runs the given keyword with the given arguments, if all critical tests passed.

This keyword can only be used in suite teardown. Trying to use it in any other place will result in an error.

Otherwise, this keyword works exactly like Run Keyword, see its documentation for more details.

Run Keyword If All name, *args Runs the given keyword with the given arguments, if all tests passed.

This keyword can only be used in a suite teardown. Trying to use it anywhere else results in an error.

Otherwise, this keyword works exactly like *Run Keyword*, see its documentation for more details.

Run Keyword If Any Critical Tests Failed

Runs the given keyword with the given arguments, if any critical tests failed.

This keyword can only be used in a suite teardown. Trying to use it anywhere else results in an error.

Otherwise, this keyword works exactly like *Run Keyword*, see its documentation for more details.

Run Keyword If name, *args
Any Tests Failed

Runs the given keyword with the given arguments, if one or more tests failed

This keyword can only be used in a suite teardown. Trying to use it anywhere else results in an error.

Otherwise, this keyword works exactly like Run Keyword, see its documentation for more details.

Run Keyword If name, *args
Test Failed

name. *aras

Runs the given keyword with the given arguments, if the test failed.

This keyword can only be used in a test teardown. Trying to use it anywhere else results in an error.

Otherwise, this keyword works exactly like Run Keyword, see its documentation for more details.

Run Keyword If name, *args
Test Passed

Runs the given keyword with the given arguments, if the test passed.

This keyword can only be used in a test teardown. Trying to use it anywhere else results in an error.

Otherwise, this keyword works exactly like Run Keyword, see its documentation for more details.

Timeout Occurred

Run Kevword If

Runs the given keyword if either a test or a keyword timeout has occurred

This keyword can only be used in a test teardown. Trying to use it anywhere else results in an error.

Otherwise, this keyword works exactly like Run Keyword, see its documentation for more details.

Run Keyword condition, name, targs

Runs the given keyword with the given arguments if condition is false.

See Run Keyword If for more information and an example. Notice that this keyword does not support ELSE or ELSE IF branches like Run Keyword If does, though.

Run Keywords *keywords

Executes all the given keywords in a sequence.

This keyword is mainly useful in setups and teardowns when they need to take care of multiple actions and creating a new higher level user keyword would be an overkill.

By default all arguments are expected to be keywords to be executed.

Examples:

Run Keywords	Initialize database	Start servers	Clear logs
Run Keywords	\${KW 1}	\${KW 2}	
Run Keywords	@{KEYWORDS}		

Keywords can also be run with arguments using upper case AND as a separator between keywords. The keywords are executed so that the first argument is the first keyword and proceeding arguments until the first AND are arguments to it. First argument after the first AND is the second keyword and proceeding arguments until the next AND are its arguments. And so on.

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		Examples: Run Keywords Initialize database db1 AND Start servers server1 server2 Run Keywords Initialize database \${DB NAME} AND Start servers @{SERVERS} AND Clear logs Run Keywords \${KW} AND @{KW WITH ARGS}					
		Notice that the AND control argument must be used explicitly and cannot itself come from a variable. If you need to use literal AND string as argument, you can either use variables or escape it with a backslash like \AND.					
Set Global Variable	name, *values	Makes a variable available globally in all tests and suites.					
		Variables set with this keyword are globally available in all subsequent test suites, test cases and user keywords. Also variables in variable tables are overridden. Variables assigned locally based on keyword return values or by using Set Test Variable and Set Sui Variable override these variables in that scope, but the global value is not changed in those cases.					
		In practice setting variables with this keyword has the same effect as using command line optionsvariable andvariablefile. Because this keyword can change variables everywhere, it should be used with care. See Set Suite Variable for more information and examples.					
Set Library Search	*search_order	Sets the resolution order to use when a name matches multiple keywords.					
Order		The library search order is used to resolve conflicts when a keyword name in the test data matches multiple keywords. The first library (or resource, see below) containing the keyword is selected and that keyword implementation used. If the keyword is not four from any library (or resource), test executing fails the same way as when the search order is not set.					
		When this keyword is used, there is no need to use the long LibraryName.Keyword Name notation. For example, instead of having					
		MyLibrary.Keyword arg MyLibrary.Another Keyword MyLibrary.Keyword xxx					
		you can have					
		Set Library Search Order MyLibrary					
		Keyword arg Another Keyword Keyword xxx					
		This keyword can be used also to set the order of keywords in different resource files. In this case resource names must be given without paths or extensions like:					
		Set Library Search Order resource another_resource					
		NOTE:					
		 The search order is valid only in the suite where this keywords is used. Keywords in resources always have higher priority than keywords in libraries regardless the search order. The old order is returned and can be used to reset the search order later. Library and resource names in the search order are both case and space insensitive. 					
Set Local Variable	name, *values	Makes a variable available everywhere within the local scope.					
		Variables set with this keyword are available within the local scope of the currently executed test case or in the local scope of the keyword in which they are defined. For example, if you set a variable in a user keyword, it is available only in that keyword. Other te cases or keywords will not see variables set with this keyword.					
		This keyword is equivalent to a normal variable assignment based on a keyword return value.					
		Example: @{ list} = Create List item1 item2 item3					
		is equivalent with					
		Set Local Variable @{list} item1 item2 item3					
		This keyword will provide the option of setting local variables inside keywords like Run Keyword If, Run Keyword And Return If, Run Keyword Unless which until now was not possible by using Set Variable.					
		It will also be possible to use this keyword from external libraries that want to set local variables.					
Set Log Level	level	New in Robot Framework 3.2.					
Get Log Level	level	Sets the log threshold to the specified level and returns the old level. Messages below the level will not logged. The default logging level is INFO, but it can be overridden with the command line option -loglevel.					
		The available levels: TRACE, DEBUG, INFO (default), WARN, ERROR and NONE (no logging).					
Set Suite	doc, append=False,						
Documentation	top=False	By default the possible existing documentation is overwritten, but this can be changed using the optional append argument similar as with Set Test Message keyword.					
		This keyword sets the documentation of the current suite by default. If the optional top argument is given a true value (see Boolea arguments), the documentation of the top level suite is altered instead.					
		The documentation of the current suite is available as a built-in variable \${SUITE DOCUMENTATION}.					
Set Suite Metadata	name, value, append=False, top=False	Sets metadata for the current test suite. By default possible existing metadata values are overwritten, but this can be changed using the optional append argument similarly					
	top-r also	as with Set Test Message keyword. This keyword sets the metadata of the current suite by default. If the optional top argument is given a true value (see Boolean					
		arguments), the metadata of the top level suite is altered instead.					
		The metadata of the current suite is available as a built-in variable \${SUITE METADATA} in a Python dictionary. Notice that modifying this variable directly has no effect on the actual metadata the suite has.					
Set Suite Variable	name, *values	Makes a variable available everywhere within the scope of the current suite. Variables set with this keyword are available everywhere within the scope of the currently executed test suite. Setting variables with this keyword thus has the same effect as creating them using the Variable table in the test data file or importing them from variable					
		files. Possible child test suites do not see variables set with this keyword by default, but that can be controlled by using children= <option> as the last argument. If the specified <option> given a true value (see Boolean arguments), the variable is set also to</option></option>					
		the child suites. Parent and sibling suites will never see variables set with this keyword. The name of the variable can be given either as a normal variable name (e.g. \${NAME}) or in escaped format as \\${NAME} or					
		\$NAME . Variable value can be given using the same syntax as when variables are created in the Variable table.					

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BuiltIn If a variable already exists within the new scope, its value will be overwritten. Otherwise a new variable is created. If a variable already exists within the current scope, the value can be left empty and the variable within the new scope gets the value within the current scope Examples: Set Suite Variable | \${SCALAR} | Hello, world! Set Suite Variable \$\{SCALAR\} Hello, world! children=true Set Suite Variable @{LIST} First item Second item key=value Set Suite Variable &{DICT} foo=bar \${ID} = Get ID Set Suite Variable \${ID} To override an existing value with an empty value, use built-in variables \${EMPTY}, @{EMPTY} or &{EMPTY}: Set Suite Variable \${SCALAR} \${EMPTY} @{EMPTY} Set Suite Variable @{LIST} Set Suite Variable &{DICT} &{EMPTY} NOTE: If the variable has value which itself is a variable (escaped or not), you must always use the escaped format to set the variable: Example: \${NAME} = Set Variable \\${var} Set Suite Variable \${NAME} value # Sets variable \${var} Set Suite Variable \\${NAME} value # Sets variable \${NAME} This limitation applies also to Set Test Variable. Set Global Variable, Variable Should Exist, Variable Should Not Exist and Get Variable Value keywords. Adds given tags for the current test or all tests in a suite. When this keyword is used inside a test case, that test gets the specified tags and other tests are not affected If this keyword is used in a suite setup, all test cases in that suite, recursively, gets the given tags. It is a failure to use this keyword in a suite teardown The current tags are available as a built-in variable @{TEST TAGS}. See Remove Tags if you want to remove certain tags and Fail if you want to fail the test case after setting and/or removing tags. Makes a variable available everywhere within the scope of the current task. This is an alias for Set Test Variable that is more applicable when creating tasks, not tests. New in RF 3.1. doc, append=False Sets documentation for the current test case By default the possible existing documentation is overwritten, but this can be changed using the optional append argument similarly as with Set Test Message keyword. The current test documentation is available as a built-in variable \${TEST_DOCUMENTATION}. This keyword can not be used in suite setup or suite teardown. Sets message for the current test case. If the optional append argument is given a true value (see Boolean arguments), the given message is added after the possible earlier message by joining the messages with a space. In test teardown this keyword can alter the possible failure message, but otherwise failures override messages set by this keyword. Notice that in teardown the message is available as a built-in variable \${TEST MESSAGE} It is possible to use HTML format in the message by starting the message with *HTML* Examples: Set Test Message My message Set Test Message is continued. append=yes Should Be Equal \${TEST MESSAGE} My message is continued. Set Test Message | *HTML* Hello! This keyword can not be used in suite setup or suite teardown. Makes a variable available everywhere within the scope of the current test. Variables set with this keyword are available everywhere within the scope of the currently executed test case. For example, if you set a variable in a user keyword, it is available both in the test case level and also in all other user keywords used in the current test. Other test cases will not see variables set with this keyword. See Set Suite Variable for more information and examples Returns the given values which can then be assigned to a variables. This keyword is mainly used for setting scalar variables. Additionally it can be used for converting a scalar variable containing a list to

Set Test Variable name, *values

Set Variable *values

Set Tags

Set Task Variable

Documentation

Set Test Message

Set Test

*tags

name, *values

message.

append=False

a list variable or to multiple scalar variables. It is recommended to use Create List when creating new lists.

Examples:

\${hi} =	Set Variable	Hello, world!		
\${hi2} =	Set Variable	I said: \${hi}		
\${var1}	\${var2} =	Set Variable	Hello	world
@{list} =	Set Variable	\${list with some items}		
\${item1}	\${item2} =	Set Variable	\${list with 2 items}	

Variables created with this keyword are available only in the scope where they are created. See Set Global Variable, Set Test Variable and Set Suite Variable for information on how to set variables so that they are available also in a larger scope.

Set Variable If

condition, *values

Sets variable based on the given condition.

The basic usage is giving a condition and two values. The given condition is first evaluated the same way as with the Should Be True keyword. If the condition is true, then the first value is returned, and otherwise the second value is returned. The second value can also be omitted, in which case it has a default value None. This usage is illustrated in the examples below, where \${rc} is assumed

	\${var1} =	Set Variable If	\${rc} == 0	zero	nonzero
	\${var2} =	Set Variable If	$rc} > 0$	value1	value2
	\${var3} =	Set Variable If	\${rc} > 0	whatever	

=>

\${var1} = 'zero' \${var2} = 'value2' $\{var3\} = None$

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BuiltIn It is also possible to have 'else if' support by replacing the second value with another condition, and having two new values after it. If the first condition is not true, the second is evaluated and one of the values after it is returned based on its truth value. This can be continued by adding more conditions without a limit. \${var} = | Set Variable If | \${rc} == 0 zero greater than zero less then zero ${c} > 0$ \${var} = Set Variable If $frc} == 0$ zero \${rc} == 1 one

\${rc} < 0 Use Get Variable Value if you need to set variables dynamically based on whether a variable exist or not.

Should Be Empty

item. msa=None

Verifies that the given item is empty

\${rc} == 2

\${rc} > 2

two

greater than two

less than zero

The length of the item is got using the Get Length keyword. The default error message can be overridden with the msg argument.

Should Be Equal

first, second, msg=None, values=True ignore_case=False, formatter=str

Fails if the given objects are unequal

Optional msg, values and formatter arguments specify how to construct the error message if this keyword fails:

- If msg is not given, the error message is <first> != <second>
- If msg is given and values gets a true value (default), the error message is <msg>: <first> != <second>.
- If msg is given and values gets a false value (see Boolean arguments), the error message is simply <msg>
- formatter controls how to format the values. Possible values are str (default), repr and ascii, and they work similarly as Python built-in functions with same names. See String representations for more details.

If ignore case is given a true value (see Boolean arguments) and both arguments are strings, comparison is done caseinsensitively. If both arguments are multiline strings, this keyword uses multiline string comparison.

Examples:

Should Be Equal	\${x}	expected		
Should Be Equal	\${x}	expected	Custom error message	
Should Be Equal	\${x}	expected	Custom message	values=False
Should Be Equal	\${x}	expected	ignore_case=True	formatter=repr

ignore_case and formatter are new features in Robot Framework 3.0.1 and 3.1.2, respectively.

Should Be Equal As Integers

first, second, msg=None, values=True, base=None

Fails if objects are unequal after converting them to integers.

See Convert To Integer for information how to convert integers from other bases than 10 using base argument or 0b/0o/0x prefixes

See Should Be Equal for an explanation on how to override the default error message with msg and values.

Examples:

Should Be Equal As Integers	42	\${42}	Error message
Should Be Equal As Integers	ABCD	abcd	base=16
Should Be Equal As Integers	0b1011	11	

Should Be Equal As Number

first, second msg=None, values=True precision=6

Fails if objects are unequal after converting them to real numbers.

The conversion is done with Convert To Number keyword using the given precision.

Examples:

Should Be Equal As Numbers	\${x}	1.1		# Passes if \${x} is 1.1
Should Be Equal As Numbers	1.123	1.1	precision=1	# Passes
Should Be Equal As Numbers	1.123	1.4	precision=0	# Passes
Should Be Equal As Numbers	112.3	75	precision=-2	# Passes

As discussed in the documentation of Convert To Number, machines generally cannot store floating point numbers accurately. Because of this limitation, comparing floats for equality is problematic and a correct approach to use depends on the context. This keyword uses a very naive approach of rounding the numbers before comparing them, which is both prone to rounding errors and point-numbers-2012-edition/

If you want to avoid possible problems with floating point numbers, you can implement custom keywords using Python's decimal or

See Should Not Be Equal As Numbers for a negative version of this keyword and Should Be Equal for an explanation on how to override the default error message with msg and values

Should Be Equal As Strings

first, second, msg=None, values=True ignore case=False, formatter=str

Fails if objects are unequal after converting them to strings

See Should Be Equal for an explanation on how to override the default error message with msg, values and formatter.

If ignore_case is given a true value (see Boolean arguments), comparison is done case-insensitively. If both arguments are multiline strings, this keyword uses multiline string comparison.

Strings are always NFC normalized.

ignore_case and formatter are new features in Robot Framework 3.0.1 and 3.1.2, respectively.

Should Be True

condition msg=None

If condition is a string (e.g. \${rc} < 10), it is evaluated as a Python expression as explained in Evaluating expressions and the keyword status is decided based on the result. If a non-string item is given, the status is got directly from its truth value.

The default error message (<condition> should be true) is not very informative, but it can be overridden with the msg argument.

Examples:

Should Be True	\${rc} < 10	
Should Be True	'\${status}' == 'PASS'	# Strings must be quoted
Should Be True	\${number}	# Passes if \${number} is not zero
Should Be True	\${list}	# Passes if \${list} is not empty

Variables used like \${variable}, as in the examples above, are replaced in the expression before evaluation. Variables are also available in the evaluation namespace, and can be accessed using special \$variable syntax as explained in the Evaluating expressions section.

Examples:

Should Be True	\$rc < 10	
Should Be True	\$status == 'PASS'	# Expected string must be quoted

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		Should Be True os.linesep == '\n'
Should Contain	container, item, msg=None, values=True, ignore_case=False	Fails if container does not contain item one or more times. Works with strings, lists, and anything that supports Python's in operator. See Should Be Equal for an explanation on how to override the default error message with arguments msg and values. If ignore_case is given a true value (see Boolean arguments) and compared items are strings, it indicates that comparison should be case-insensitive. If the container is a list-like object, string items in it are compared case-insensitively. New option in Robot Framework 3.0.1. Examples: Should Contain \${output} PASS Should Contain \${output} Value PASS Should Contain Struck Value PASS Should Contain Struck Value PASS Value
		Should Contain \${some list} value insg-rainte: values-raise Should Contain \${some list} value ignore_case=True
Should Contain Any	container, *items, **configuration	Fails if container does not contain any of the *items. Works with strings, lists, and anything that supports Python's in operator. Supports additional configuration parameters msg, values and ignore_case, which have exactly the same semantics as arguments with same names have with Should Contain. These arguments must always be given using name=value syntax after alitems. Note that possible equal signs in items must be escaped with a backslash (e.g. foo\=bar) to avoid them to be passed in as **configuration. Examples: Should Contain Any \$(string) substring 1 substring 2 should Contain Any \$(string) item 1 substring 2 item 3 should Contain Any \$(string) item 1 item 2 item 3 item 2 item 3 items 2 it
		Should Contain Any \${\text{list}} & \text{item 1} & \text{item 2} & \text{item 3} & \text{ignore_case=True} \$\$ Should Contain Any \${\text{list}} & \text{@{\text{item 3}}} & \text{msg=Custom message} & \text{values=False} \$\$ \$\$
		New in Robot Framework 3.0.1.
Should Contain X Times	container, item, count, msg=None, ignore_case=False	Fails if container does not contain item count times. Works with strings, lists and all objects that <i>Get Count</i> works with. The default error message can be overridden with msg and the actual count is always logged. If ignore_case is given a true value (see <i>Boolean arguments</i>) and compared items are strings, it indicates that comparison should be case-insensitive. If the container is a list-like object, string items in it are compared case-insensitively. New option in Robot Framework 3.0.1. Examples: Should Contain X Times \${output} hello 2 Should Contain X Times \${some list} value 3 ignore_case=True
Should End With	str1, str2, msg=None, values=True, ignore_case=False	Fails if the string str1 does not end with the string str2. See Should Be Equal for an explanation on how to override the default error message with msg and values, as well as for semantics of the ignore_case option.
Should Match	string, pattern, msg=None, values=True, ignore_case=False	Fails if the given string does not match the given pattern. Pattern matching is similar as matching files in a shell with *,? and [chars] acting as wildcards. See the Glob patterns section for more information. See Should Be Equal for an explanation on how to override the default error message with msg and values, as well as for semantics of the ignore_case option.
Should Match Regexp	string, pattern, msg=None, values=True	Fails if string does not match pattern as a regular expression. See the *Regular expressions* section for more information about regular expressions and how to use then in Robot Framework test data. Notice that the given pattern does not need to match the whole string. For example, the pattern ello matches the string Hello world! If a full match is needed, the ^ and \$ characters can be used to denote the beginning and end of the string, respectively. For example, ^ello\$ only matches the exact string ello. Possible flags altering how the expression is parsed (e.g. re.IGNORECASE, re.MULTILINE) must be embedded to the pattern like (?im)pattern. The most useful flags are i (case-insensitive), m (multiline mode), s (dotall mode) and x (verbose). If this keyword passes, it returns the portion of the string that matched the pattern. Additionally, the possible captured groups are returned. See the *Should Be Equal** keyword for an explanation on how to override the default error message with the msg and values arguments. Examples: Should Match Regexp \$ {\(\)(\text{output}\) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Should Not Be	item, msg=None	Verifies that the given item is not empty.
Empty		The length of the item is got using the Get Length keyword. The default error message can be overridden with the msg argument.
Should Not Be Equal	first, second, msg=None, values=True, ignore_case=False	Fails if the given objects are equal. See Should Be Equal for an explanation on how to override the default error message with msg and values. If ignore_case is given a true value (see Boolean arguments) and both arguments are strings, comparison is done case-insensitively. New option in Robot Framework 3.0.1.

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Should Not Be Equal As Integers	first, second, msg=None, values=True, base=None	Fails if objects are equal after converting them to integers. See Convert To Integer for information how to convert integers from other bases than 10 using base argument or 0b/0o/0x prefixes.
		See Should Be Equal for an explanation on how to override the default error message with msg and values.
		See Should Be Equal As Integers for some usage examples.
Should Not Be Equal As Numbers	first, second, msg=None, values=True, precision=6	Fails if objects are equal after converting them to real numbers.
		The conversion is done with Convert To Number keyword using the given precision.
		See Should Be Equal As Numbers for examples on how to use precision and why it does not always work as expected. See also Should Be Equal for an explanation on how to override the default error message with msg and values.
Should Not Be Equal As Strings	first, second, msg=None, values=True, ignore_case=False	Fails if objects are equal after converting them to strings.
		See Should Be Equal for an explanation on how to override the default error message with msg and values.
		If ignore_case is given a true value (see <i>Boolean arguments</i>), comparison is done case-insensitively.
		Strings are always NFC normalized. ignore_case is a new feature in Robot Framework 3.0.1.
Should Not Be True	condition,	Fails if the given condition is true.
	msg=None	See Should Be True for details about how condition is evaluated and how msg can be used to override the default error message.
Should Not Contain	container, item, msg=None, values=True, ignore_case=False	Fails if container contains item one or more times.
		Works with strings, lists, and anything that supports Python's in operator.
		See Should Be Equal for an explanation on how to override the default error message with arguments msg and values . ignore_case has exactly the same semantics as with Should Contain. Examples:
		Should Not Contain \${some list} value Should Not Contain \${output} FAILED ignore_case=True
Should Not Contain Any	container, *items, **configuration	Fails if container contains one or more of the *items.
Ally	Corniguration	Works with strings, lists, and anything that supports Python's in operator.
		Supports additional configuration parameters msg, values and ignore_case, which have exactly the same semantics as arguments with same names have with Should Contain. These arguments must always be given using name=value syntax after all items.
		Note that possible equal signs in items must be escaped with a backslash (e.g. foo\=bar) to avoid them to be passed in as **configuration.
		Examples:
		Should Not Contain Any \$\string\} substring 1 substring 2 Should Not Contain Any \$\string\} item 1 item 2 item 3
		Should Not Contain Any \${list} item 1 item 2 item 3 ignore_case=True Should Not Contain Any \${list} @{ltems} msg=Custom message values=False
		New in Robot Framework 3.0.1.
Should Not End With	str1, str2, msg=None, values=True, ignore_case=False	Fails if the string str1 ends with the string str2.
		See Should Be Equal for an explanation on how to override the default error message with msg and values, as well as for semantics of the ignore_case option.
Should Not Match	string, pattern, msg=None, values=True, ignore_case=False	Fails if the given string matches the given pattern.
		Pattern matching is similar as matching files in a shell with *, ? and [chars] acting as wildcards. See the <i>Glob patterns</i> section for more information.
		See Should Be Equal for an explanation on how to override the default error message with msg and values, as well as for semantics of the ignore_case option.
Should Not Match Regexp	string, pattern, msg=None,	Fails if string matches pattern as a regular expression.
Should Not Start	values=True	See Should Match Regexp for more information about arguments. Fails if the string str1 starts with the string str2.
With	str1, str2, msg=None, values=True, ignore_case=False	See Should Be Equal for an explanation on how to override the default error message with msg and values, as well as for
		semantics of the ignore_case option.
Should Start With	str1, str2, msg=None, values=True, ignore_case=False	Fails if the string str1 does not start with the string str2.
		See Should Be Equal for an explanation on how to override the default error message with msg and values, as well as for semantics of the ignore_case option.
Sleep	time_, reason=None	Pauses the test executed for the given time.
		time may be either a number or a time string. Time strings are in a format such as 1 day 2 hours 3 minutes 4 seconds 5milliseconds or 1d 2h 3m 4s 5ms, and they are fully explained in an appendix of Robot Framework User Guide. Optional reason can be used to explain why sleeping is necessary. Both the time slept and the reason are logged.
		Examples: Sleep 42
Variable Should Exist	name, msg=None	Fails unless the given variable exists within the current scope. The name of the variable can be given either as a normal variable name (e.g. \${NAME}) or in escaped format (e.g. \\${NAME}). Notice that the former has some limitations explained in Set Suite Variable.
		The default error message can be overridden with the msg argument.
Variable Chardel N-4	name mag-Mana	See also Variable Should Not Exist and Keyword Should Exist.
Variable Should Not Exist	name, msg=ivone	Fails if the given variable exists within the current scope. The name of the variable can be given either as a normal variable name (e.g. \${NAME}) or in escaped format (e.g. \\${NAME}).
		Notice that the former has some limitations explained in Set Suite Variable.
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		The default error message can be overridden with the msg argument.
		See also Variable Should Exist and Keyword Should Exist.
Wait Until Keyword Succeeds	retry, retry_interval, name, *args	Runs the specified keyword and retries if it fails.
		name and args define the keyword that is executed similarly as with Run Keyword. How long to retry running the keyword is defined using retry argument either as timeout or count. retry_interval is the time to wait before trying to run the keyword again after the previous run has failed.
		If retry is given as timeout, it must be in Robot Framework's time format (e.g. 1 minute, 2 min 3 s, 4.5) that is explained in an appendix of Robot Framework User Guide. If it is given as count, it must have times or x postfix (e.g. 5 times, 10 x). retry_interval must always be given in Robot Framework's time format.
		If the keyword does not succeed regardless of retries, this keyword fails. If the executed keyword passes, its return value is returned.
		Examples:
		Wait Until Keyword Succeeds 2 min 5 sec My keyword argument
		\$\text{result} = \text{Wait Until Keyword Succeeds } \delta x \text{200ms} \text{My keyword}
		All normal failures are caught by this keyword. Errors caused by invalid syntax, test or keyword timeouts, or fatal exceptions (caused e.g. by <i>Fatal Error</i>) are not caught.
		Running the same keyword multiple times inside this keyword can create lots of output and considerably increase the size of the generated output files. It is possible to remove unnecessary keywords from the outputs usingRemoveKeywords WUKS command line option.

Altogether 105 keywords. Generated by Libdoc on 2020-05-04 18:02:33.