

# Descriptions of available transformations

The following table describes the available transformations. The date and number types refer generically to any of the various forms of these concepts. That is, number includes, for example, `integer`, `long`, `double`. Date includes, for example, `date`, `Time`, `ZonedDateTime`.

Transformation	Input Type	Output Type	Parameter (* = required)	Description
<code>AbsoluteValue</code>	number	number	None	Return the absolute value of a number.
<code>AddDays</code>	date	date	<code>days</code>	Add days to a date. The default is 0 days.
<code>AddSeconds</code>	date	date	<code>seconds</code>	Add seconds to a date. The default is 0 seconds.
<code>Append</code>	string	string	string	Append a string to the end of a string. The default is to append nothing.
<code>Camelize</code>	string	string	None	Convert a phrase to a camelized string by removing whitespace, making the first word lowercase, and capitalizing the first letter of each subsequent word.
<code>Capitalize</code>	string	string	None	Capitalize the first character in a string.
<code>Ceiling</code>	number	number	None	Return the whole number ceiling of a number.
<code>Contains</code>	any	Boolean	<code>value</code>	Return true if a field contains the specified value.

Transformation	Input Type	Output Type	Parameter (* = required)	Description
ConvertAreaUnit	number	number	fromUnit* toUnit *	Convert a number that represents an area to another unit. For the fromUnit and toUnit parameters, select the appropriate unit from the <b>From Unit</b> and <b>To Unit</b> menus. The choices are: Square Foot, Square Meter, or Square Mile.
ConvertDistanceUnit	number	number	fromUnit* toUnit *	Convert a number that represents a distance to another unit. For the fromUnit and toUnit parameters, select the appropriate unit from the <b>From Unit</b> and <b>To Unit</b> menus. The choices are: Foot, Inch, Meter, Mile, or Yard.
ConvertMassUnit	number	number	fromUnit* toUnit *	Convert a number that represents mass to another unit. For the fromUnit and toUnit parameters, select the appropriate unit from the <b>From Unit</b> and <b>To Unit</b> menus. The choices are: Kilogram or Pound.

Transformation	Input Type	Output Type	Parameter (* = required)	Description
ConvertVolumeUnit	number	number	fromUnit * toUnit *	Convert a number that represents volume to another unit. For the fromUnit and toUnit parameters, select the appropriate unit from the <b>From Unit</b> and <b>To Unit</b> menus. The choices are: Cubic Foot, Cubic Meter, Gallon US Fluid, or Liter.
CurrentDate	None	date	Note	Return the current date.
CurrentDateTime	None	date	None	Return the current date and time.
CurrentTime	None	date	None	Return the current time.
DayOfWeek	date	number	None	Return the day of the week (1 through 7) that corresponds to the date.
DayOfYear	date	number	None	Return the day of the year (1 through 366) that corresponds to the date.
EndsWith	string	Boolean	string	Return true if a string ends with the specified string, including case.
Equals	any	Boolean	value	Return true if a field is equal to the specified value, including case.
FileExtension	string	string	None	From a string that represents a file name, return the file extension without the dot.

Transformation	Input Type	Output Type	Parameter (* = required)	Description
Floor	number	number	None	Return the whole number floor of a number.
Format	any	string	template *	In <b>template</b> , replace each placeholder (such as %s) with the value of the input field and return a string that contains the result. This is similar to mechanisms that are available in programming languages such as Java and C.
GenerateUUID	None	string	None	Create a string that represents a random UUID.
IndexOf	string	number	string	In a string, starting at 0, return the first index of the specified <b>string</b> . Return -1 if it is not found.
IsNull	any	Boolean	None	Return true if a field is null.
LastIndexOf	string	number	string	In a string, starting at 0, return the last index of the specified <b>string</b> . Return -1 if it is not found.
Length	any	number	None	Return the length of the field, or -1 if the field is null.
Lowercase	string	string	None	Convert a string to lowercase.

Transformation	Input Type	Output Type	Parameter (* = required)	Description
Normalize	string	string	None	Replace consecutive whitespace characters with a single space and trim leading and trailing whitespace from a string.
PadStringLeft	string	string	padCharacter * padCount *	Insert the character supplied in padCharacter at the beginning of a string. Do this the number of times specified in padCount.
PadStringRight	string	string	padCharacter * padCount *	Insert the character supplied in padCharacter at the end of a string. Do this the number of times specified in padCount.
Prepend	string	string	string	Prefix string to the beginning of a string. the default is to prepend nothing.
ReplaceAll	string	string	match * newString	In a string, replace all occurrences of the supplied matching string with the supplied newString. The default newString is an empty string.
ReplaceFirst	string	string	match * newString *	In a string, replace the first occurrence of the specified match string with the specified newString. The default newString is an empty string.

Transformation	Input Type	Output Type	Parameter (* = required)	Description
Round	number	number	None	Return the rounded whole number of a number.
SeparateByDash	string	string	None	Replace each occurrence of whitespace, colon (:), underscore (_), plus (+), and equals (=) with a hyphen (-).
SeparateByUnderscore	string	string	None	Replace each occurrence of whitespace, colon (:), hyphen (-), plus (+), and equals (=) with an underscore (_).
StartsWith	string	Boolean	string	Return true if a string starts with the specified string (including case).
Substring	string	string	startIndex * endIndex	Retrieve a segment of a string from the specified inclusive <b>startIndex</b> to the specified exclusive <b>endIndex</b> . Both indexes start at zero. <b>startIndex</b> is inclusive. <b>endIndex</b> is exclusive. The default value of <b>endIndex</b> is the length of the string.

Transformation	Input Type	Output Type	Parameter (* = required)	Description
SubstringAfter	string	string	startIndex * endIndex match *	Retrieve the segment of a string after the specified match string from the specified inclusive startIndex to the specified exclusive endIndex. Both indexes start at zero. The default value of endIndex is the length of the string after the supplied match string.
SubstringBefore	string	string	startIndex * endIndex match *	Retrieve a segment of a string before the supplied match string from the supplied inclusive startIndex to the supplied exclusive endIndex. Both indexes start at zero. The default value of endIndex is the length of the string before the supplied match string.
Trim	string	string	None	Trim leading and trailing whitespace from a string.
TrimLeft	string	string	None	Trim leading whitespace from a string.
TrimRight	string	string	None	Trim trailing whitespace from a string.
Uppercase	string	string	None	Convert a string to uppercase.