

# Liquid Guidelines

## Introduction

Liquid is an [open-source](#) template language created by Shopify and written in Ruby. It is the backbone of Shopify themes and is used to load dynamic content on storefronts.

In MailUp Liquid is used as markup language for the email messages that use the [Advanced content personalization](#).

The following guide describes how to use Liquid within MailUp and which statements are supported.

When talking about *dynamics fields*, we refer to the [MailUp Recipient fields](#).

To retrieve a specific dynamic field value, you have to use the following syntax: **dynamicfields.<dynamic field name>**.

In the liquid syntax, not all characters are supported in a variable name. To be sure to have a correct syntax when using MailUp dynamic field, we recommend to use only:


- **digits** (0...9)
- **letters** (a...z and A...Z)
- **dash** (-) and **underscore** (.) signs



For MailUp Recipient fields that contain these characters:

- **accented characters** should be substitute with normalized character (e.g. 'CrèmeBrûlée' -> 'CremeBrulee')
- **special characters**, such as full stop (.), space (' '), dollar('\$'), should be removed from the field name (e.g. 'Is a colleague' -> 'Isacolleague').

## Basics

### Operators

Operator	Meaning	Work	Syntax
==	equals		<p><b>This operator can be used with dynamic fields 'as is' only to compare strings.</b></p> <pre>{% if dynamicfields.name == 'alan' %} alan {% elsif dynamicfields.name == 'tom' %} tom {% else %} catherine {% endif %}</pre> <p>In this case the check is case sensitive.</p> <p>To compare numbers or data type different from string it is possible use the built in functions:</p> <pre>{% assign c1 = dynamicfields.name   evaltext: 'equalTo', 'Jennifer' %} {% if c1 == true %} Text {% endif %}</pre> <pre>{% assign c1 = dynamicfields.age   evalinteger: 'equalTo', '8' %} {% if c1 == true %} Text {% endif %}</pre>

<p>!=</p>	<p>does not equal</p>	<p> <b>It is possible use this operator with dynamic fields 'as is' only to compare strings.</b></p> <pre data-bbox="639 280 1433 504"> {% if dynamicfields.name != 'alan' %} alan {% elsif dynamicfields.name != 'tom' %} tom {% else %} catherine {% endif %} </pre> <p>In this case the check is case sensitive.</p> <p>To compare numbers or data type different from string it is possible use the built in functions:</p> <pre data-bbox="639 607 1433 705"> {% assign c1 = dynamicfields.name   evaltext: 'otherThan', 'Jennifer' %} {% if c1 == true %} Text {% endif %} </pre> <pre data-bbox="639 730 1433 828"> {% assign c1 = dynamicfields.age   evalinteger: 'otherThan', '8' %} {% if c1 == true %} Text {% endif %} </pre>
<p>&gt;</p>	<p>greater than</p>	<p> <b>It is possible use this operator with dynamic fields 'as is' only to compare strings.</b></p> <pre data-bbox="639 920 1433 1131"> {% if dynamicfields.name &gt; 'alan' %} alan {% elsif dynamicfields.name &gt; 'tom' %} tom {% else %} catherine {% endif %} </pre> <p>In this case the check is case sensitive.</p> <p>To compare numbers or data type different from string it is possible use the built in functions:</p> <pre data-bbox="639 1234 1433 1332"> {% assign c1 = dynamicfields.name   evaltext: 'moreThan', 'Jennifer' %} {% if c1 == true %} Text {% endif %} </pre> <pre data-bbox="639 1357 1433 1456"> {% assign c1 = dynamicfields.age   evalinteger: 'moreThan', '8' %} {% if c1 == true %} Text {% endif %} </pre>

<p>&lt;</p> <p>less than</p>	<p>✓</p>	<p><b>It is possible use this operator with dynamic fields 'as is' only to compare strings.</b></p> <pre>{% if dynamicfields.name &lt; 'alan' %} alan {% elsif dynamicfields.name &lt; 'tom' %} tom {% else %} catherine {% endif %}</pre> <p>In this case the check is case sensitive.</p> <p>To compare numbers or data type different from string it is possible use the built in functions:</p> <pre>{% assign c1 = dynamicfields.name  evaltext: 'lessThan', 'Jennifer' %} {% if c1 == true %} Text {% endif %}</pre> <pre>{% assign c1 = dynamicfields.age   evalinteger: 'lessThan', '8' %} {% if c1 == true %} Text {% endif %}</pre>
<p>&gt;=</p> <p>greater than or equal to</p>	<p>✓</p>	<p><b>It is possible use this operator with dynamic fields 'as is' only to compare strings.</b></p> <pre>{% if dynamicfields.name &gt;= 'alan' %} alan {% elsif dynamicfields.name &gt;= 'tom' %} tom {% else %} catherine {% endif %}</pre> <p>In this case the check is case sensitive.</p> <p>To compare numbers or data type different from string it is possible use the built in functions:</p> <pre>{% assign c1 = dynamicfields.name  evaltext: 'equalOrMoreThan', 'Jennifer' %} {% if c1 == true %} Text {% endif %}</pre> <pre>{% assign c1 = dynamicfields.age   evalinteger: 'equalOrMoreThan', '8' %} {% if c1 == true %} Text {% endif %}</pre>

<=	less than or equal to	✓	<p><b>It is possible use this operator with dynamic fields 'as is' only to compare strings.</b></p> <pre>{% if dynamicfields.name &lt;= 'alan' %} alan {% elsif dynamicfields.name &lt;= 'tom' %} tom {% else %} catherine {% endif %}</pre> <p>In this case the check is case sensitive.</p> <p>To compare numbers or data type different from string it is possible use the built in functions:</p> <pre>{% assign c1 = dynamicfields.name   evaltext: 'equalOrLessThan', 'Jennifer' %} {% if c1 == true %} Text {% endif %}</pre> <pre>{% assign c1 = dynamicfields.age   evalinteger: 'equalOrLessThan', '8' %} {% if c1 == true %} Text {% endif %}</pre>
or	logical or	✓	<pre>{% if dynamicfields.name == 'alan' or dynamicfields.age == 'child' %} is alan or a child {% else %} It is an adult alan or another adult {% endif %}</pre>
and	logical and	✓	<pre>{% if dynamicfields.name == 'alan' and dynamicfields.age == 'child' %} alan is a child {% else %} it is an adult {% endif %}</pre>
contains	checks for the presence of a substring inside a string	✓	<pre>{% if dynamicfields.name contains 'oof' %} could be alan? {% else %} surely isn't alan {% endif %}</pre>

## Types

Type	Meaning	Work	Syntax
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String	Declare a string by wrapping a variable's value in single quotes:	✓	<div data-bbox="943 232 1437 300"><b>Input</b></div> <div data-bbox="943 300 1437 427"> <pre>{% assign thisIsAString = 'this is a string' %} {{ thisIsAString   uppercase }}</pre> </div> <div data-bbox="943 427 1437 495"><b>Output</b></div> <div data-bbox="943 495 1437 584">THIS IS A STRING</div>
Number	Numbers include floats and integers:	✓	<div data-bbox="943 618 1437 685"><b>Input</b></div> <div data-bbox="943 685 1437 786"> <pre>{% assign thisIsAnInteger = 10 %} {{ thisIsAnInteger   minus: 2 }}</pre> </div> <div data-bbox="943 786 1437 853"><b>Output</b></div> <div data-bbox="943 853 1437 943">8</div> <div data-bbox="943 1032 1437 1099"><b>Input</b></div> <div data-bbox="943 1099 1437 1211"> <pre>{% assign thisIsAFloat = 10.234 %} {{ thisIsAFloat   minus: 2 }}</pre> </div> <div data-bbox="943 1211 1437 1279"><b>Output</b></div> <div data-bbox="943 1279 1437 1368">8.23400020599365</div>


Boolean		✓	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <p><b>Input</b></p> <pre>{% assign thisIsTrue = true %} {{ thisIsTrue }}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <p><b>Output</b></p> <pre>true</pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <p><b>Input</b></p> <pre>{% assign thisIsFalse = true %} {{ thisIsFalse }}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <p><b>Output</b></p> <pre>false</pre> </div>
Nil	<p>Nil is a special empty value that is returned when Liquid code has no results. It is <b>not</b> a string with the characters "nil".</p> <p>Nil is <b>treated as false</b> in the conditions of <code>if</code> blocks and other Liquid tags that check the truthfulness of a statement.</p>	✓	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <p><b>Input</b></p> <pre>{% if user %}   Hello user! {% endif %}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <p><b>Output</b></p> <pre>Hello user!</pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <p><b>Input</b></p> <pre>{% unless user %}   Hello user! {% endunless %}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <p><b>Output</b></p> <pre>Hello user!</pre> </div>

<p><b>Array</b></p>	<p>Arrays hold lists of variables of any type.</p>	<div style="text-align: right; margin-bottom: 10px;">✓</div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>Input</b></p> <pre>{% assign my_array = 'alan,catherine, tom,erin,mark'   split: ',' %} {{ my_array.first }} {{ my_array.last }}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>Output</b></p> <pre>alan mark</pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>Input</b></p> <pre>{% assign my_array = 'alan,catherine, tom,erin,mark'   split: ',' %} {% for user in my_array %}   {{ user }} {% endfor %}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>Output</b></p> <pre>alan catherine tom erin mark</pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>Input</b></p> <pre>{% assign my_array = 'alan,catherine, tom,erin,mark'   split: ',' %} {{ my_array[2] }}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <p><b>Output</b></p> <pre>tom</pre> </div>
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## TAGS

### Comment



Operator	Meaning	Work	Syntax
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<b>comment</b>	Any text within the opening and closing <code>comment</code> blocks will not be output, and any Liquid code within will not be executed		<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <b>Input</b> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;">       Text 1 {% comment %} Text 2        {% endcomment %}     </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <b>Output</b> </div> <div style="border: 1px solid #ccc; padding: 5px;">       Text 1     </div>
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## Control flow

Operator	Meaning	Work	Syntax
<b>if</b>	Executes a block of code only if a certain condition is <b>true</b>		<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <b>Input</b> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <pre>{% assign c1 = dynamicfields.age   evalinteger: 'equalTo', '10' %} {% if c1 == true %} 10 years old {% endif %}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <b>Output</b> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;">       10 years old     </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <b>Input</b> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <pre>{% if dynamicfields.name == 'alan' %} alan {% endif %}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <b>Output</b> </div> <div style="border: 1px solid #ccc; padding: 5px;">       alan     </div>



<p>unless</p>	<p>Executes a block of code only if a certain condition is <b>not</b> match</p>		<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>Input</b></p> <pre>{% assign c1 = dynamicfields.age  evalinteger: 'equalTo', '10' %} {% unless c1 == true %} Not 10 years old {% endunless %}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>Output</b></p> <p>Not 10 years old</p> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>Input</b></p> <pre>{% unless dynamicfields.name == 'alan' %} alan {% endunless %}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <p><b>Output</b></p> <p>alan</p> </div>
<p>elsif/else</p>	<p>Adds more conditions within an if or unless block.</p>		<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>Input</b></p> <pre>{% if dynamicfields.name == 'alan' %} alan {% elsif dynamicfields.name == 'tom' %} tom {% else %} catherine {% endif %}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>output if name is goofy</b></p> <p>alan</p> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>output if name is tom</b></p> <p>tom</p> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <p><b>output for each other name</b></p> <p>catherine</p> </div>

case/when	Creates a switch statement to compare a variable with different values	✔	<div style="border: 1px solid #ccc; padding: 5px;"> <p><b>Input</b></p> <pre>{% case dynamicfields.name%}   {% when 'alan' %}     This is a alan   {% when 'tom' %}     This is a tom   {% else %}     This is not a alan nor a tom. can it be a     catherine? {% endcase %}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> <p><b>output if name is goofy</b></p> <pre>This is a alan</pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> <p><b>output if name is mickey</b></p> <pre>This is a tom</pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> <p><b>output for each other name</b></p> <pre>This is not a alan nor a tom. can it be a catherine?</pre> </div>
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## Iteration

### For

Operator	Meaning	Work	Syntax
for	Repeatedly executes a block of code.	✔	<div style="border: 1px solid #ccc; padding: 5px;"> <p><b>Input</b></p> <pre>{% assign my_array = 'alan,catherine, tom,erin,mark'   split: ',' %} {% for user in my_array %}   {{ user }} {% endfor %}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> <p><b>Output</b></p> <pre>alan catherine tom erin mark</pre> </div>

break	Causes the loop to stop iterating when it encounters the <code>break</code> tag.	✓	<div data-bbox="932 232 1439 300" style="background-color: #f0f0f0; padding: 5px;"><b>Input</b></div> <div data-bbox="932 300 1439 591" style="padding: 5px;"> <pre>{% assign my_array = 'alan,catherine, tom,erin,mark'   split: ',' %} {% for user in my_array %}   {% if user == 'erin' %}     {% break %}   {% else %}     {{ user }}   {% endif %} {% endfor %}</pre> </div> <div data-bbox="932 591 1439 658" style="background-color: #f0f0f0; padding: 5px;"><b>Output</b></div> <div data-bbox="932 658 1439 741" style="padding: 5px;"> <pre>alan catherine tom</pre> </div>
continue	Causes the loop to skip the current iteration when it encounters the <code>continue</code> tag.	✓	<div data-bbox="932 775 1439 842" style="background-color: #f0f0f0; padding: 5px;"><b>Input</b></div> <div data-bbox="932 842 1439 1133" style="padding: 5px;"> <pre>{% assign my_array = 'alan,catherine, tom,erin,mark'   split: ',' %} {% for user in my_array %}   {% if user == 'erin' %}     {% continue %}   {% else %}     {{ user }}   {% endif %} {% endfor %}</pre> </div> <div data-bbox="932 1133 1439 1200" style="background-color: #f0f0f0; padding: 5px;"><b>Output</b></div> <div data-bbox="932 1200 1439 1283" style="padding: 5px;"> <pre>alan catherine tom mark</pre> </div>
limit	Limits the loop to the specified number of iterations.	✓	<div data-bbox="932 1317 1439 1384" style="background-color: #f0f0f0; padding: 5px;"><b>Input</b></div> <div data-bbox="932 1384 1439 1585" style="padding: 5px;"> <pre>{% assign my_array = 'alan,catherine, tom,erin,mark'   split: ',' %} {% for user in my_array limit:2 %}   {{ user }} {% endfor %}</pre> </div> <div data-bbox="932 1585 1439 1653" style="background-color: #f0f0f0; padding: 5px;"><b>Output</b></div> <div data-bbox="932 1653 1439 1736" style="padding: 5px;"> <pre>alan catherine</pre> </div>

offset	Begins the loop at the specified index.	✓	<div data-bbox="938 241 1437 477"> <p><b>Input</b></p> <pre>{% assign my_array = 'alan,catherine, tom,erin,mark'   split: ',' %} {% for user in my_array offset:2 %}   {{ user }} {% endfor %}</pre> </div> <div data-bbox="938 499 1437 633"> <p><b>Output</b></p> <pre>tom erin mark</pre> </div>
range	Defines a range of numbers to loop through. The range can be defined by both literal and variable numbers.	✓	<div data-bbox="938 683 1437 869"> <p><b>Input</b></p> <pre>{% for i in (3..5) %}   {{ i }} {% endfor %}</pre> </div> <div data-bbox="938 891 1437 1025"> <p><b>Output</b></p> <pre>3 4 5</pre> </div> <div data-bbox="938 1137 1437 1350"> <p><b>Input</b></p> <pre>{% assign num = 4 %} {% for i in (1..num) %}   {{ i }} {% endfor %}</pre> </div> <div data-bbox="938 1373 1437 1507"> <p><b>Output</b></p> <pre>1 2 3 4</pre> </div>
reversed	Reverses the order of the loop.	✓	<div data-bbox="938 1550 1437 1785"> <p><b>Input</b></p> <pre>{% assign my_array = 'alan,catherine, tom,erin,mark'   split: ',' %} {% for user in my_array reversed %}   {{ user }} {% endfor %}</pre> </div> <div data-bbox="938 1807 1437 1942"> <p><b>Output</b></p> <pre>mark erin tom catherine alan</pre> </div>

## Cycle

Operator	Meaning	Work	Syntax
Cycle	Repeatedly executes a block of code.	✓	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <b>Input</b> <pre>{% assign my_array = 'alan,catherine,tom,erin,mark'   split: ', ' %} {% for user in my_array %}   {% cycle 'first one', 'second one', 'third one' %} {% endfor %}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <b>Output</b> <pre>first one second one third one first one second one</pre> </div>

## Variable

Operator	Meaning	Work	Syntax
assign	Creates a new variable	✓	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <b>Input</b> <pre>{% assign c1 = 10 %} {% if c1 == 10 %}   It is ten! {% endif %}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <b>Output</b> <pre>It is ten!</pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <b>Input</b> <pre>{% assign c1 = 'alan' %} {% if c1 == 'alan' %}   It is alan! {% endif %}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <b>Output</b> <pre>It is alan!</pre> </div>

capture	Captures the string inside of the opening and closing tags and assigns it to a variable. Variables created through <code>{% capture %}</code> are strings.	✓	<div data-bbox="1038 232 1439 300" style="background-color: #f0f0f0; padding: 2px;"><b>Input</b></div> <pre data-bbox="1038 300 1439 629"> {% assign name = dynamicfields.name %} {% assign surname = dynamicfields.surname %}  {% capture about_me %} I am {{ name }} {{ surname }} and my favorite food is pizza. {% endcapture %}  {{ about_me }}</pre> <div data-bbox="1038 629 1439 696" style="background-color: #f0f0f0; padding: 2px;"><b>output</b></div> <pre data-bbox="1038 696 1439 824"> I am Catherine Martin and my favorite food is pizza.</pre>
increment	Creates a new number variable, and increases its value by one every time it is called. The initial value is 0.	✗	
decrement	Creates a new number variable, and decreases its value by one every time it is called. The initial value is -1.	✗	

## Filters


Operator	Meaning	Work	Syntax
abs	Returns the absolute value of a number.	✗	

append	Concatenates two strings and returns the concatenated value.	✔	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>Input</b></p> <pre> {{ "Hello "   append: "Carl" }} </pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>Output</b></p> <pre> Hello Carl </pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>Input</b></p> <pre> {{ "Welcome"   append: dynamicfields.name }} </pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>Output</b></p> <pre> Welcome Luke </pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>Input</b></p> <pre> {{ dynamicfields.name   append: " welcome!"}} </pre> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <p><b>Output</b></p> <pre> Luke welcome! </pre> </div>
at_least	Limits a number to a minimum value.	✘	
at_most	Limits a number to a maximum value.	✘	



capitalize	Makes the first character of a string capitalized.	✔	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <p><b>Input</b></p> <pre>{{ "my great title"   capitalize }}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <p><b>Output</b></p> <p>My great title</p> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <p><b>Input</b></p> <pre>{{ dynamicfields.nome   capitalize }}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <p><b>Output</b></p> <p>Luke</p> </div>
ceil	Rounds the input up to the nearest whole number. Liquid tries to convert the input to a number before the filter is applied.	✘	
compact	Removes any <code>nil</code> values from an array.		
concat	Concatenates (joins together) multiple arrays. The resulting array contains all the items from the input arrays.	✘	
date	Converts a timestamp into another date format. The format for this syntax is the same as <code>strftime</code> . The input uses the same format as Ruby's <code>Time.parse</code> .		
default	Allows you to specify a fallback in case a value doesn't exist. <code>default</code> will show its value if the left side is <code>nil</code> , <code>false</code> , or empty.	✘	






divided_by	Divides a number by the specified number.	⚠	<p>Does not work on <i>dynamicfields</i>.</p> <div data-bbox="1125 315 1436 481"> <p><b>Input</b></p> <pre>{{ 16   divided_by: 4 }}</pre> </div> <div data-bbox="1125 504 1436 638"> <p><b>Output</b></p> <pre>4</pre> </div> <div data-bbox="1125 741 1436 907"> <p><b>Input</b></p> <pre>{{ subTotal   divided_by: 4 }}</pre> </div> <div data-bbox="1125 929 1436 1064"> <p><b>Output</b></p> <pre>100</pre> </div>
downcase	Makes each character in a string lowercase. It has no effect on strings which are already all lowercase.	✔	<div data-bbox="1125 1111 1436 1267"> <p><b>Input</b></p> <pre>{{ "Parker Moore"   downcase }}</pre> </div> <div data-bbox="1125 1290 1436 1424"> <p><b>Output</b></p> <pre>parker moore</pre> </div> <div data-bbox="1125 1536 1436 1693"> <p><b>Input</b></p> <pre>{{ dynamicfields.nome   downcase}}</pre> </div> <div data-bbox="1125 1715 1436 1850"> <p><b>Output</b></p> <pre>luke</pre> </div>
escape	Escapes a string by replacing characters with escape sequences (so that the string can be used in a URL, for example). It doesn't change strings that don't have anything to escape.	✘	
escape_once	Escapes a string without changing existing escaped entities. It doesn't change strings that don't have anything to escape.	✘	

first	Returns the first item of an array.		<p>Assuming the <i>userid</i> dynamic field contains "1,2,3,4,5".</p> <div data-bbox="1129 297 1437 510"> <p><b>Input</b></p> <pre>{% assign my_array = dynamicfields.userid   split: "," %} {{ my_array.first }}</pre> </div> <div data-bbox="1129 533 1437 674"> <p><b>Output</b></p> <p>1</p> </div> <div data-bbox="1129 775 1437 1014"> <p><b>Input</b></p> <pre>{% assign my_array = "apples, oranges, peaches, plums"   split: ", " %} {{ my_array.first }}</pre> </div> <div data-bbox="1129 1037 1437 1178"> <p><b>Output</b></p> <p>apples</p> </div>
floor	Rounds a number down to the nearest whole number. Liquid tries to convert the input to a number before the filter is applied.		

<p>join</p>	<p>Combines the items in an array into a single string using the argument as a separator.</p>	<p>✓ Assuming the <i>userid</i> dynamic field contains "1,2,3,4,5".</p> <div data-bbox="1129 338 1437 577"> <p><b>Input</b></p> <pre>{% assign my_array = dynamicfields.userid   split: "," %} {{ my_array   join: " and " }}</pre> </div> <div data-bbox="1129 600 1437 763"> <p><b>Output</b></p> <pre>1 and 2 and 3 and 4 and 5</pre> </div> <div data-bbox="1129 869 1437 1108"> <p><b>Input</b></p> <pre>{% assign beatles = "John, Paul, George, Ringo"   split: ", " %} {{ beatles   join: " and " }}</pre> </div> <div data-bbox="1129 1131 1437 1294"> <p><b>Output</b></p> <pre>John and Paul and George and Ringo</pre> </div>
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last	Returns the last item of an array.		<p>Assuming the <i>userid</i> dynamic field contains "1,2,3,4,5".</p> <div data-bbox="1129 297 1437 510"> <p><b>Input</b></p> <pre>{% assign my_array = dynamicfields.userid   split: "," %} {{ my_array.last}}</pre> </div> <div data-bbox="1129 533 1437 674"> <p><b>Output</b></p> <p>5</p> </div> <div data-bbox="1129 775 1437 1043"> <p><b>Input</b></p> <pre>{% assign my_array = "apples, oranges, peaches, plums"   split: ", " %} {{ my_array.last }}</pre> </div> <div data-bbox="1129 1066 1437 1207"> <p><b>Output</b></p> <p>plums</p> </div>
lstrip	Removes all whitespaces (tabs, spaces, and newlines) from the beginning of a string. The filter does not affect spaces between words.		


map	Creates an array of values by extracting the values of a named property from another object.	<p>✓ Assuming the <i>products</i> <u>contains</u>:</p> <pre>{   "products": [{     "title": "Product 1",     "price": 100   }, {     "title": "Product 2",     "price": 200   }, {     "title": "Product 3",     "price": 300   }] }</pre> <p><b>Input</b></p> <pre>{% assign all_titles = products   map: "title" %}  {% for item in all_titles %} {{ item }} {% endfor %}</pre> <p><b>Output</b></p> <pre>Product 1 Product 2 Product 3</pre>
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minus	Subtracts a number from another number.		<p>Does not work on <i>dynamicfields</i>.</p> <div data-bbox="1125 280 1436 414"> <p><b>Input</b></p> <pre>{{ 4   minus: 2 }}</pre> </div> <div data-bbox="1125 436 1436 571"> <p><b>Output</b></p> <p>2</p> </div> <div data-bbox="1125 683 1436 840"> <p><b>Input</b></p> <pre>{{ SubTotal   minus: 100 }}</pre> </div> <div data-bbox="1125 862 1436 996"> <p><b>Output</b></p> <p>900</p> </div>
modulo	Returns the remainder of a division operation.		<p>Does not work on <i>dynamicfields</i>.</p> <div data-bbox="1125 1120 1436 1254"> <p><b>Input</b></p> <pre>{{ 3   modulo: 2 }}</pre> </div> <div data-bbox="1125 1276 1436 1411"> <p><b>Output</b></p> <p>1</p> </div> <div data-bbox="1125 1523 1436 1680"> <p><b>Input</b></p> <pre>{{ SubTotal   modulo: 6 }}</pre> </div> <div data-bbox="1125 1702 1436 1836"> <p><b>Output</b></p> <p>4</p> </div>
newline_to_br	Replaces every newline (\n) with an HTML line break ( ).		

plus	Adds a number to another number.	<p>✓ Assuming the <i>TotalIncome</i> dynamic field contains 500.</p> <p><b>Input</b></p> <pre>{{ dynamicfields.TotalIncome  plus: 2 }}</pre> <p><b>Output</b></p> <p>502</p> <p><b>Input</b></p> <pre>{{ 5  plus: 2 }}</pre> <p>7</p>
prepend	Adds the specified string to the beginning of another string.	<p>✓</p> <p><b>Input</b></p> <pre>{{ "apples, oranges, and bananas"   prepend: "Some fruit: " }}</pre> <p><b>Output</b></p> <p>Some fruit: apples, oranges, and bananas</p> <p><b>Input</b></p> <pre>{{ dynamicfields.Name  prepend: "Hello " }}</pre> <p><b>Output</b></p> <p>Hello Luke</p>

		<table border="1"><tr><td data-bbox="1129 241 1441 309"><b>Input</b></td></tr><tr><td data-bbox="1129 309 1441 434"><pre>{{ dynamicfields.Name  prepend: dynamicfields. Surname}}</pre></td></tr><tr><td data-bbox="1129 456 1441 524"><b>Output</b></td></tr><tr><td data-bbox="1129 524 1441 591">Luke Skywalker</td></tr><tr><td data-bbox="1129 734 1441 801"><b>Input</b></td></tr><tr><td data-bbox="1129 801 1441 927"><pre>{{ "Welcome"   prepend: dynamicfields. Name }}</pre></td></tr><tr><td data-bbox="1129 949 1441 1016"><b>Output</b></td></tr><tr><td data-bbox="1129 1016 1441 1084">Welcome Luke</td></tr></table>	<b>Input</b>	<pre>{{ dynamicfields.Name  prepend: dynamicfields. Surname}}</pre>	<b>Output</b>	Luke Skywalker	<b>Input</b>	<pre>{{ "Welcome"   prepend: dynamicfields. Name }}</pre>	<b>Output</b>	Welcome Luke
<b>Input</b>										
<pre>{{ dynamicfields.Name  prepend: dynamicfields. Surname}}</pre>										
<b>Output</b>										
Luke Skywalker										
<b>Input</b>										
<pre>{{ "Welcome"   prepend: dynamicfields. Name }}</pre>										
<b>Output</b>										
Welcome Luke										






remove	Removes every occurrence of the specified substring from a string.	<div style="text-align: right; margin-bottom: 10px;"></div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>Input</b></p> <pre>{{ "I strained to see the train through the rain"   remove: "rain" }}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>Output</b></p> <p>I sted to see the t through the</p> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>Input</b></p> <pre>{{ dynamicfields.Name   remove: "uk"}}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>Output</b></p> <p>Le</p> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>Input</b></p> <pre>{{ "Luke Skywalker"   remove: dynamicfields. Name}}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <p><b>Output</b></p> <p>Skywalker</p> </div>
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remove_first	Removes only the first occurrence of the specified substring from a string.	✓	<p><b>Input</b></p> <pre>{{ "I strained to see the train through the rain"   remove_first: "rain" }}</pre> <p><b>Output</b></p> <pre>I sted to see the train through the rain</pre>
replace	Replaces every occurrence of an argument in a string with the second argument.	✓	<p><b>Input</b></p> <pre>{{ "Take my protein pills and put my helmet on"   replace: "my", "your" }}</pre> <p><b>Output</b></p> <pre>Take your protein pills and put your helmet on</pre>
replace_first	Replaces only the first occurrence of the first argument in a string with the second argument.	✓	<p><b>Input</b></p> <pre>{% assign my_string = "Take my protein pills and put my helmet on" %} {{ my_string   replace_first: "my", "your" }}</pre> <p><b>Output</b></p> <pre>Take your protein pills and put my helmet on</pre>
reverse	Reverses the order of the items in an array. <code>reverse</code> cannot reverse a string.	✗	

round	Rounds an input number to the nearest integer or, if a number is specified as an argument, to that number of decimal places.	✓	<p>Does not work on <i>dynamicfields</i>.</p> <div data-bbox="1129 338 1437 477"> <p><b>Input</b></p> <pre>{{ 1.2   round }}</pre> </div> <div data-bbox="1129 499 1437 638"> <p><b>Output</b></p> <pre>1</pre> </div>
rstrip	Removes all whitespace (tabs, spaces, and newlines) from the right side of a string.	✗	
size	Returns the number of characters in a string or the number of items in an array. <i>size</i> can also be used with dot notation (for example, <code>{{ my_string.size }}</code> ). This allows you to use <i>size</i> inside tags such as conditionals.	✓	<div data-bbox="1129 719 1437 880"> <p><b>Input</b></p> <pre>{{ "Ground control to Major Tom."   size }}</pre> </div> <div data-bbox="1129 902 1437 1041"> <p><b>Output</b></p> <pre>28</pre> </div> <div data-bbox="1129 1144 1437 1413"> <p><b>Input</b></p> <pre>{% assign my_array = "apples, oranges, peaches, plums"   split: ", " %} {{ my_array   size }}</pre> </div> <div data-bbox="1129 1435 1437 1574"> <p><b>Output</b></p> <pre>4</pre> </div>

<p>slice</p>	<p>Returns a substring of 1 character beginning at the index specified by the argument passed in. An optional second argument specifies the length of the substring to be returned.</p> <p>String indices are numbered starting from 0.</p>	<p style="text-align: right;">✓</p> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>Input</b></p> <pre>{{ "Liquid"   slice: 0 }}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>Output</b></p> <p>L</p> </div> <p>Assuming <i>title</i> contains "Return to the future"</p> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>Input</b></p> <pre>{{title   slice: 0}}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>Output</b></p> <p>R</p> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> <p><b>Input</b></p> <pre>{{ dynamicfields. title  slice: 0 }}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <p><b>Outuput</b></p> <p>R</p> </div>
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sort	Sorts items in an array by a property of an item in the array. The order of the sorted array is case-sensitive.	⚠	<p>Same behaviour of the <i>sort_natural</i> filter.</p> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <p><b>Input</b></p> <pre>{% assign my_array = "zebra, octopus, giraffe, Sally Snake"   split: ", " %}</pre> <pre>{{ my_array   sort_natural   join: ", " }}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <p><b>Output</b></p> <pre>giraffe, octopus, Sally Snake, zebra</pre> </div>
sort_natural	Sorts items in an array by a property of an item in the array.	✖	

split	Divides an input string into an array using the argument as a separator. <code>split</code> is commonly used to convert comma-separated items from a string to an array.		<div data-bbox="1129 232 1437 528"> <p><b>Input</b></p> <pre>{% assign beatles = "John, Paul, George, Ringo"   split: ", " %} {% for member in beatles %} {{ member }} {% endfor %}</pre> </div> <div data-bbox="1129 546 1437 842"> <p><b>Output</b></p> <p>John</p> <p>Paul</p> <p>George</p> <p>Ringo</p> </div> <p data-bbox="1129 904 1437 949">Assuming the dynamic field <i>albumid</i> contains "1,2,3,4,5"</p> <div data-bbox="1129 967 1437 1234"> <p><b>Input</b></p> <pre>{% assign ids= dynamicfields.albumid   split: "," %} {% for id in ids%} {{ id }} {% endfor %}</pre> </div> <div data-bbox="1129 1256 1437 1496"> <p><b>Output</b></p> <p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> </div>
strip	Removes all whitespace (tabs, spaces, and newlines) from both the left and right side of a string. It does not affect spaces between words.		
strip_html	Removes any HTML tags from a string.		<div data-bbox="1129 1597 1437 1816"> <p><b>Input</b></p> <pre>{{ "Have &lt;em&gt;you&lt;/em&gt; read &lt;strong&gt;Ulysses&lt; /strong&gt;?"   strip_html }}</pre> </div> <div data-bbox="1129 1839 1437 1973"> <p><b>Output</b></p> <p>Have you read Ulysses?</p> </div>

strip_newlines	Removes any newline characters (line breaks) from a string.		
times	Multiplies a number by another number.		Does not work on <i>dynamicfields</i> .  <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"><b>Input</b></div> <pre>{{ 24   times: 7 }}</pre> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"><b>Output</b></div> <pre>168</pre>
truncate	truncate shortens a string down to the number of characters passed as a parameter. If the number of characters specified is less than the length of the string, an ellipsis (...) is appended to the string and is included in the character count.		<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"><b>Input</b></div> <pre>{{ "Ground control to Major Tom."   truncate: 20 }}</pre> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"><b>Output</b></div> <pre>Ground control to...</pre> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"><b>Input</b></div> <pre>{{ "Ground control to Major Tom."   truncate: 25, ", and so on" }}</pre> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"><b>Output</b></div> <pre>Ground control, and so on</pre>
truncatewords	Shortens a string down to the number of words passed as the argument. If the specified number of words is less than the number of words in the string, an ellipsis (...) is appended to the string.		
uniq	Removes any duplicate elements in an array.		

upcase	Makes each character in a string uppercase. It has no effect on strings which are already all uppercase.	✔	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <p><b>Input</b></p> <pre>{{ dynamicfields.name   upcase }}</pre> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <p><b>Output</b></p> <p>LUKE</p> </div>
url_decode	Decodes a string that has been encoded as a URL or by url_encode.	✘	
url_encode	Converts any URL-unsafe characters in a string into percent-encoded characters.	✘	