

Built In References - Strings

| | |
|---------------------------------|--|
| boolean | Converts string to boolean (true, false) |
| cap_first | Capitalizes first word of string |
| capitalize | Capitalizes every word in string properly |
| chop_linebreak | Removes line-break from end of string |
| contains (substring) | Checks if string contains substring |
| date, time, datetime | Converts string to date/time/datetime based on *_format |
| ends_with (substring) | Checks if string ends with substring |
| ensure_ends_with (substring) | Returns string with substring appended if not already there |
| ensure_start_s_with (substring) | Same as ensure_ends_with, but prepended |
| groups[x] | Returns the returns the regex group from the matches method if it exists |
| html | Returns the string with html characters parsed to ampersand codes |
| index_of (substring) | Returns the index of the requested substring in string |
| j_string | Escapes the string for Java String Literals |

Built In References - Strings (cont)

| | |
|-----------------------------------|--|
| js_string | Escapes the string for Javascript String Literals |
| json_string | Escapes the string for JSON String Literals |
| keep_after (substring, flags="") | Returns all text after substring, not including substring |
| keep_before (substring, flags="") | Returns all text before substring, not including substring |
| last_index_of (substring) | Returns the index of the last occurrence of substring |
| left_pad (x, separator=" ") | Returns the string with [separator] prepended up to a maximum length |
| length | The number of characters in the string |
| lower_case | Returns string in all lower case |
| matches | Regex Pattern checker |
| number | The string as a number |
| replace (substring, replace) | Returns all occurrences of substring with replace |
| right_pad (x, separator=" ") | Same as left_pad, but appended instead |
| remove_beginning (substring) | Returns string with substring removed from the beginning |

Built In References - Strings (cont)

| | |
|-------------------|--|
| remove_end ing | Same as remove_beginning, except from the ending |
| rtf | Rich Text Format |
| split (substring) | Split a string at each substring |
| starts_with | Same as ends_with, but for string beginning |
| string | Takes a multi-value variable and returns just the string parts |
| substring | Deprecated, use string[x..y] |
| trim | Removes leading and trailing whitespace |
| uncap_first | The opposite of cap_first |
| upper_case | Opposite of lower_case |
| url | URL Character escaping |
| url_path | Same as url but doesn't escape slashes |
| word_list | Returns a sequence of all words in a string |
| xhtml | Same as html, but for xhtml escaping |
| xml | Same as hhtml, but difference code for ' |

Built In References - Numbers

| | |
|-------------|---|
| abs | Absolute Value |
| c | Num to String without formatting |
| is_infinite | True if number is floating point infinite |
| is_nan | True if number is NaN |



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Built In References - Numbers (cont)

| | |
|-----------------------|---|
| round, floor, ceiling | Rounds to closest, lowest, and highest, respectively |
| string.format | Num to String with optional formatting (format can be number, currency, percent, or computer) |

Built In References - Date/time/date-time

| | |
|----------------------------------|--|
| date | Returns date only from a datetime value (Only use if variable is problematic) |
| time | Returns time only from a datetime value (Only use if variable is problematic) |
| datetime | Returns date and time from a datetime value (Only use if variable is problematic) |
| (date/time/date-time)_if_unknown | Marks a date-like value with specified missing subtype |
| iso_... | Converts date-like value to specified iso format. Deprecated in favour of _format settings |
| string.format | Converts date-like object to string. See freemarker manual for formats |

Built In References - Booleans

| | |
|------------------------------|---|
| c | Boolean to String for computer languages |
| string("string1", "string2") | Boolean to String with human-readable flags. Provided as "string1" for true and "string2" for false |

Built In References - Sequences

| | |
|---------------------------|---|
| chunk(x, filler=null) | Splits sequence into multiple sequences of size x. Last chunk |
| first | Returns the first element of the sequence |
| join(separator) | Concatenates sequence elements with separator in between |
| last | Returns the last element in the sequence |
| reverse | Returns the sequence in reverse order |
| seq_contains(needle) | Returns true if the sequence contains needle |
| seq_index_of(needle) | Same as contains, but returns the index of the first element |
| seq_last_index_of(needle) | |
| size | |
| sort | |
| sort_by | |

Built In References - Nodes (XML)

| | |
|-----------------|--|
| ancestors(name) | Returns a sequence of nodes ancestors. Starts with immediate parent and ends with root. Should be filtered with name |
| children | Returns a sequence of all child nodes |
| node_name | Returns the node name (directive invoked when node is "visited") |
| node_namespace | Returns namespace string of node |
| node_type | Returns a string with the node type |
| parent | Returns the immediate parent node |
| root | Returns the root node |

Common Flags

| | |
|---|--|
| i | Case Insensitive (eg. x==X) |
| f | First Only (Only apply to first occurrence) |
| r | Substring is regex |
| m | Multi-line mode for regex |
| s | Enables dot-all mode for regex (. is wildcard) |
| c | Allows whitespace and comments in regex |

Built In References - Hashes

| | |
|--------|-------------------------------------|
| Keys | A sequence with all the hash keys |
| Values | A sequence with all the hash values |



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Rarely Used Built-Ins

| | |
|--|--|
| byte, double, float, int, long, short | Converts numbers to other types of numbers |
| eval | Evaluate a string as an FTL expression |
| has_content | Returns true if variable exists and isn't empty, false otherwise |
| interpret | Returns the value of a string interpreted as FTL code. Sort of like a function |
| is_...[type] | Checks if variable is of type [type]. See docs for full list |
| namespace | Returns macro or function namespace, if any |
| new | Creates a variable of type class. Usage is var = "FQDN"? new(options) |
| number_to_[date/time/da tetime] | Converts a number to date/time/datetime, using the number of seconds since epoch |

Template Language Quick Reference

| | |
|--------------------------------------|--------------------------------|
| assign name=value [in namespacehash] | Creates a variable called name |
| attempt/recover | try/catch |

Template Language Quick Reference (cont)

| | |
|-----------------------|---|
| compress | Removes all but one newline character between lines |
| escape x as x? | <pre> tag for freemarker code |
| [escape type] | |
| flush | Forces generated output to be written. 99% of the time is not necessary |
| ftl | Tells programs that file is an ftl file. Takes optional parameters found on the docs page |
| function/return | Similar to a macro, except returns a specific value as denoted by return |
| global | Makes a global variable. Variable will be exposed as if at data-model level |
| if/elseif/else | Creates an if/elseif/else block |
| import path as hash | Imports the library at location path for use in the current ftl file |
| include path | Includes the file at location path for use in current document |
| list sequence as item | foreach loop |

Template Language Quick Reference (cont)

| | |
|----------------------------|--|
| local | Like assign, but creates local variables within macros or functions |
| macro/nested/return | Macro outputs a block of user-defined code which wraps nested (optionally, otherwise just outputs the code). return works as a break |
| noparse | <pre> tag for ftl |
| nt | No trim. Disables whitespace stripping |
| setting name=value | Modifies parse settings. View full list in the docs page |
| stop [reason] | Per ftl docs: an emergency brake. Don't use in normal situations. Returns reason if set |
| switch/case/default/break- | A regular switch block |
| t, lt, rt | Trim, left trim, right trim. Ignores whitespace based on tag position used |
| visit/recurse/fallback | Used for parsing trees, usually XML. See the ftl docs for full info |



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