+++ title = "Template functions" keywords = ["grafana", "alerting", "guide", "contact point", "templating"] +++

Template Functions

Template functions allow you to process labels and annotations to generate dynamic notifications.

Name	Argument type	Return type	Description
humanize	number or string	string	Converts a number to a more readable format, using metric prefixes.
humanize1024	number or string	string	Like humanize, but uses 1024 as the base rather than 1000.
humanizeDuration	number or string	string	Converts a duration in seconds to a more readable format.
humanizePercentage	number or string	string	Converts a ratio value to a fraction of 100.
humanizeTimestamp	number or string	string	Converts a Unix timestamp in seconds to a more readable format.
title	string	string	strings.Title, capitalises first character of each word.
toUpper	string	string	strings.ToUpper, converts all characters to upper case.
toLower	string	string	strings.ToLower, converts all characters to lower case.
match	pattern, text	boolean	regexp.MatchString Tests for a unanchored regexp match.
reReplaceAll	pattern, replacement, text	string	Regexp.ReplaceAllString Regexp substitution, unanchored.
graphLink	string - JSON Object with `"expr"` and `"datasource"` fields	string	Returns the path to graphical view in Explore for the given expression and data source.
tableLink	string- JSON Object with `"expr"` and `"datasource"` fields	string	Returns the path to tabular view in Explore for the given expression and data source.
args	[]interface{}	map[string]interface{}	Converts a list of objects to a map with keys, for example, arg0, arg1. Use this function to pass multiple arguments to templates.

Name	Argument type	Return type	Description
externalURL	nothing	string	Returns a string representing the external URL.
pathPrefix	nothing	string	Returns the path of the external URL.

Examples

humanize

Template string { humanize $value }

Input 1234567.0

Expected 1.235M

humanize1024

TemplateString { humanize1024 $value }

Input 1048576.0

Expected 1Mi

humanizeDuration

TemplateString { humanizeDuration $value }

Input 899.99

Expected 14m 59s

humanizePercentage

TemplateString { humanizePercentage $value }

Input 0.1234567

Expected 12.35%

humanizeTimestamp

TemplateString { $value | humanizeTimestamp }

Input 1435065584.128

Expected 2015-06-23 13:19:44.128 +0000 UTC

title

TemplateString { $value | title }

Input aa bb CC

Expected Aa Bb Cc

toUpper

TemplateString { $value | toUpper }

Input aa bb CC

Expected AA BB CC

toLower

TemplateString { $value | toLower }

Input aA bB CC

Expected aa bb cc

match

TemplateString { match "a+" $labels.instance }

Input aa

Expected true

reReplaceAll

TemplateString   {{ reReplaceAll "localhost:(.*)" "my.domain:$1" $labels.instance }}

Input localhost:3000

Expected my.domain:3000

graphLink

TemplateString   {{ graphLink "{\"expr\": \"up\", \"datasource\": \"gdev-prometheus\"}" }}

Expected /explore?left=["now-1h","now","gdev-prometheus",{"datasource":"gdev-prometheus","e:

tableLink

TemplateString   {{ tableLink "{\"expr\": \"up\", \"datasource\": \"gdev-prometheus\"}" }}

Expected /explore?left=["now-1h","now","gdev-prometheus",{"datasource":"gdev-prometheus","e:

args

TemplateString {{define "x"}}{{.arg0}} {{.arg1}}{{end}}{{template "x" (args 1 "2")}}

Expected 1 2

externalURL

TemplateString { externalURL }

Expected http://localhost/path/prefix

pathPrefix

TemplateString { pathPrefix }

Expected /path/prefix