Basic Expressions

{{ "Hello World" }} Outputs Hello World

{{ foo }} Outputs value of 'foo' variable

{{ 2 + 3 }} Outputs number 5

{{ 5 > 10 }} Outputs "False"

If Statement

{% if hour > 5 and hour < 12 %}
  Good Morning!
{% elif number >= 12 and hour < 17 %}
  Good Afternoon!
{% elif number >= 17 %}
  Good Evening!
{% endif %}

For Loop

{% for number in 10 %}
  {{ number }}
{% endfor %}

For loop with conditions

{% for item in states if
item.attributes.emulated_hue_name|length > 0-
%}
{%- if loop.first %}{% elif loop.last %}, and {%
else %}, {% endif -%}
{{item.attributes.emulated_hue_name|title}}
{%- endfor -%}.

When iterating through a loop, sometimes we
would like to add additional logic based on the
loop counter. This is an example.

String Manipulations

{{ "Hello" ~ " World" }} Outputs "Hello World"
(String Concatenation)

{{ "Hello World" | lower }} Outputs "hello world"

{{ "hello world" | title }} Outputs "Hello World"

{{ "hello world" | upper }} Outputs "HELLO
WORLD"

{{ "hello world".split(' ')[0] }} splits by delimiter ' '
and outputs "hello"

{{ "hello" | replace("he", "she") }} Replaces "he"
with "she", and outputs "shello"

{{ "hello" | length }} outputs number of
characters, which is 5

String Manipulations (cont)

{{ "hello" == "hello" }} compares strings, if
equal, returns True

Random

{{["hello", "hi there!", "howdy!", "hey there!"
]|random}}

Date and Time

{{ now() }}	Prints current date and time value
{{ now().strftime("%m--%d-%Y")}}	Outputs "07-26-2017" by converting datetime value to the specified format
{{ as_timestamp(now())	timestamp_custom("%m-%d-%Y", true) }}	Outputs "07-26-2017" by converting datetime value to the specified format
{{ now().strftime("%m") }}	Outputs Month value. For ex: 07

For additional date and time related formats,
please visit http://strftime.org/

Number Conversions

{{ 10.5 }} prints the number as is

{{ 10.500482737 | int }} Converts float to
decimal

{{ 10.6 | round }} Rounds to nearest decimal
number

{{ 10.4 | round }} rounds to nearest decimal
number

{{ 10 | float }} Converts Decimal to float

{{ '%0x' % 255 }} Changes Decimal to Hex
Value

{{ "%0x" | format (some_numeric_value | int) }}
Converts numeric value to Hex Value

{{ '%0.2f' % 24.12345 }} Only displays two
digits after decimal point

{{ "${:.2f}".format(15.45) }} Formats currency

Basic Macros

{% macro sayHello() -%}
  Hello!
{%- endmacro %}
Call the macro using {{ sayHello() }}

Troubleshooting

1. Always convert to proper data type prior to
using any filters.
For example,
{{ set value = "123" }}
{{ value > 100 }} given the value is of "string"
type, make sure you convert to decimal first.
{{ (value | int) > 123 }}

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