Cheatography

Jinja Cheat Sheet

by skalavala via cheatography.com/38039/cs/11891/

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"

String Manipulations (cont)

{{ "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
{{ "hello" == "hello" }}	Compares strings, if equal, returns True
{{ "Hello world!"[:4] }}	Get Substring - Returns "Hell", the first 4 characters
{{ "HELLO" [2:4] }}	Get Substring - Returns "LL"
{{ "HELLO"[:-3] }}	Get Substring - Removes last three characters, Returns "HE"

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() }}

Random

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

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 }}