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Automation trigger variables

Automations support [templating](#) in the same way as scripts do. In addition to the [Home Assistant template extensions](#) available to scripts, the `trigger` and `this` template variables are available.

The template variable `this` is also available when evaluating any `trigger_variables` declared in the configuration.

Available this data

The variable `this` is the [state object](#) of the automation at the moment of triggering the actions. State objects also contain context data which can be used to identify the user that caused a script or automation to execute. Note that `this` will not change while executing the actions.

Available trigger data

The variable `trigger` is an object that contains details about which [trigger](#) triggered the automation.

Templates can use the data to modify the actions performed by the automation or displayed in a message. For example, you could create an automation that multiple sensors can trigger and then use the sensor's location to specify a light to activate; or you could send a notification containing the friendly name of the sensor that triggered it.

Each [trigger platform](#) can include additional data specific to that platform.

ALL

Triggers from all platforms will include the following data.

Template variable**Data**`trigger.id`The `id` of the trigger.`trigger.idx`Index of the trigger. (The first trigger idx is `0`.)

CALENDAR

These are the properties available for a [Calendar trigger](#).

Template variable**Data**`trigger.platform`Hardcoded: `calendar``trigger.event`The trigger event type, either `start` or `end``trigger.calendar_event`

The calendar event object matched.

`trigger.calendar_event.summary`

The title or summary of the calendar event.

`trigger.calendar_event.start`String representation of the start date or date time of the calendar event
e.g. `2022-04-10`, or `2022-04-10 11:30:00-07:00``trigger.calendar_event.end`String representation of the end time of date time the calendar event in UTC
e.g. `2022-04-11`, or `2022-04-10 11:45:00-07:00``trigger.calendar_event.all_day`

Indicates the event spans the entire day.

`trigger.calendar_event.description`

A detailed description of the calendar event, if available.

`trigger.calendar_event.location`

Location information for the calendar event, if available.

`trigger.offset`

Timedelta object with offset to the event, if any

DEVICE

These are the properties available for a [Device trigger](#).

Inherits template variables from [event](#) or [state](#) template based on the type of trigger selected for the device.

Template variable

`trigger.platform`

Data

Hardcoded: `device`.

EVENT

These are the properties available for a [Event trigger](#).

Template variable

`trigger.platform`

`trigger.event`

`trigger.event.event_type`

`trigger.event.data`

Data

Hardcoded: `event`.

Event object that matched.

Event type.

Optional event data.

MQTT

These are the properties available for a [MQTT trigger](#).

Template variable

`trigger.platform`

`trigger.topic`

`trigger.payload`

`trigger.payload_json`

`trigger.qos`

Data

Hardcoded: `mqtt`.

Topic that received payload.

Payload.

Dictionary of the JSON parsed payload.

QOS of payload.

NUMERIC STATE

These are the properties available for a [numeric state trigger](#).

Template variable	Data
<code>trigger.platform</code>	Hardcoded: <code>numeric_state</code>
<code>trigger.entity_id</code>	Entity ID that we observe.
<code>trigger.below</code>	The below threshold, if any.
<code>trigger.above</code>	The above threshold, if any.
<code>trigger.from_state</code>	The previous state object of the entity.
<code>trigger.to_state</code>	The new state object that triggered trigger.
<code>trigger.for</code>	Timedelta object how long state has met above/below criteria, if any.

SENTENCE

These are the properties available for a [Sentence trigger](#).

Template variable	Data
<code>trigger.platform</code>	Hardcoded: <code>conversation</code>
<code>trigger.sentence</code>	Text of the sentence that was matched
<code>trigger.slots</code>	Object with matched slot values
<code>trigger.details</code>	Object with matched slot details by name, such as wildcards . Each detail contains: <ul style="list-style-type: none"><code>name</code> - name of the slot<code>text</code> - matched text<code>value</code> - output value (see lists)

STATE

These are the properties available for a [State trigger](#).

Template variable	Data
<code>trigger.platform</code>	Hardcoded: <code>state</code>
<code>trigger.entity_id</code>	Entity ID that we observe.
<code>trigger.from_state</code>	The previous state object of the entity.
<code>trigger.to_state</code>	The new state object that triggered trigger.
<code>trigger.for</code>	Timedelta object how long state has been to state, if any.

SUN

These are the properties available for a [Sun trigger](#).

Template variable	Data
<code>trigger.platform</code>	Hardcoded: <code>sun</code>
<code>trigger.event</code>	The event that just happened: <code>sunset</code> or <code>sunrise</code> .
<code>trigger.offset</code>	Timedelta object with offset to the event, if any.

TEMPLATE

These are the properties available for a [Template trigger](#).

Template variable	Data
<code>trigger.platform</code>	Hardcoded: <code>template</code>
<code>trigger.entity_id</code>	Entity ID that caused change.

Template variable`trigger.from_state``trigger.to_state``trigger.for`**Data**

Previous [state object](#) of entity that caused change.

New [state object](#) of entity that caused template to change.

Timedelta object how long state has been to state, if any.

TIME

These are the properties available for a [Time trigger](#).

Template variable`trigger.platform``trigger.now`**Data**

Hardcoded: `time`

DateTime object that triggered the time trigger.

TIME PATTERN

These are the properties available for a [time pattern trigger](#).

Template variable`trigger.platform``trigger.now`**Data**

Hardcoded: `time_pattern`

DateTime object that triggered the time_pattern trigger.

PERSISTENT NOTIFICATION

These properties are available for a [persistent notification trigger](#).

Template variable**Data**`trigger.platform`Hardcoded: `persistent_notification``trigger.update_type`Type of persistent notification update `added`, `removed`, `current`, or `updated`.`trigger.notification`

Notification object that triggered the persistent notification trigger.

`trigger.notification.notification_id`

The notification ID

`trigger.notification.title`

Title of the notification

`trigger.notification.message`

Message of the notification

`trigger.notification.created_at`

DateTime object indicating when the notification was created.

WEBHOOK

These are the properties available for a [Webhook trigger](#).

Template variable**Data**`trigger.platform`Hardcoded: `webhook``trigger.webhook_id`

The webhook ID that was triggered.

`trigger.json`

The JSON data of the request (if it had a JSON content type) as a mapping.

`trigger.data`

The form data of the request (if it had a form data content type).

`trigger.query`

The URL query parameters of the request (if provided).

ZONE

These are the properties available for a [Zone trigger](#).

Template variable**Data**`trigger.platform`Hardcoded: `zone``trigger.entity_id`

Entity ID that we are observing.

`trigger.from_state`Previous [state object](#) of the entity.`trigger.to_state`New [state object](#) of the entity.`trigger.zone`

State object of zone

`trigger.event`Event that trigger observed: `enter` or `leave`.

Examples

```
# Example configuration.yaml entries
automation:
  trigger:
    - platform: state
      entity_id: device_tracker.paulus
      id: paulus_device
  action:
    - service: notify.notify
      data:
        message: >
          Paulus just changed from {{ trigger.from_state.state }}
          to {{ trigger.to_state.state }}

          This was triggered by {{ trigger.id }}

automation 2:
  trigger:
    - platform: mqtt
      topic: "/notify/+"
  action:
    service: >
      notify.{{ trigger.topic.split('/')[1] }}
    data:
      message: "{{ trigger.payload }}"

automation 3:
  trigger:
    # Multiple entities for which you want to perform the same action.
    - platform: state
      entity_id:
```



```
- light.bedroom_closet
- light.kiddos_closet
- light.linen_closet
to: "on"
# Trigger when someone leaves one of those lights on for 10 minutes.
for: "00:10:00"
action:
- service: light.turn_off
  target:
    # Turn off whichever entity triggered the automation.
    entity_id: "{{ trigger.entity_id }}"

automation 4:
trigger:
  # When an NFC tag is scanned by Home Assistant...
  - platform: event
    event_type: tag_scanned
  # ...By certain people
  context:
    user_id:
      - 06cbf6deafc54cf0b2ffa49552a396ba
      - 2df8a2a6e0be4d5d962aad2d39ed4c9c
condition:
  # Check NFC tag (ID) is the one by the front door
  - condition: template
    value_template: "{{ trigger.event.data.tag_id == '8b6d6755-b4d5-4c23-818b-cf224d221ab7' }}"
action:
  # Turn off various lights
  - service: light.turn_off
    target:
      entity_id:
        - light.kitchen
        - light.bedroom
        - light.living_room
```

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