



[Knowledge Base](#) > [Gym Lead Machine](#) > [AI Agents & Premium Features](#) > [Premium Workflow Actions](#) (> [Array Functions Action](#)

Array Functions Action

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If you've opted to have the Premium Feature Upgrade, you now have access to additional Premium and AI features within your account. If you do not have the Premium and AI features and would like to consider an upgrade, please email hello@usekilo.com

1. What is Array Functions?

Array Functions is a premium action in workflow automation specifically designed to handle array data.

This functionality is very useful for complex workflows involving arrays.

2. How to use Action Types?

- **Add the Action**

- Click the "+" button to add an action. Search for Array Functions or scroll down to the "Actions" tab to select the same.

Actions

×

Pick an action for this step

Arr

Actions

 Array Functions 

- Select Action Type - Post selecting the Array Function action we need to select the Action Type.

Array Functions

Array Function action provide methods to handle with lists from multiple places

ACTION NAME

Array Functions

ACTION TYPE

Select an action type

Type to search

Find

Find by index

Filter

Line Items

Math Functions

Cancel

Save Action

2.1 Action Type : Find

- To find the matching key-value's in an array of objects and return the object.

Array Functions



To handle array data

ACTION NAME

Array Functions

ACTION TYPE

Find



Returns object that matches key-value

SELECT FIELD

Select



- All the fields with data type array available in the workflow are listed here. The list of available array data is collected from Shopify Triggers, Inbound Webhook Trigger and Custom Webhook action response data.
- In the below example we are using Shopify Order Placed Trigger and checking if a product with product id "zGhad23wfadfa" is part of the shopify line items

Select Shopify → Line Items

SELECT FIELD

Select



▼ Shopify

Line Items

- Select Key-value to find matching object.

SELECT FIELD

Line Items

**FILTERS**

Key



Value

[+ Add another item](#)

- The list of key variables from the selected array field are listed here. In this example, the list of shopify line items key variables are listed.

id

title

price

quantity

image

line_price

Key



Value

[+ Add another item](#)

- Enter value to find the match.

SELECT FIELD

Line Items

**FILTERS**

id



zGhad23wfadfa

[+ Add another item](#)

- Add another item - You can also find the matching object with multiple key-value pairs by adding another key-value item.

SELECT FIELD

Line Items x ▾

FILTERS

id ▾ zGhad23wfadfa 🏷️

[+ Add another item](#)

SELECT FIELD

Line Items x ▾

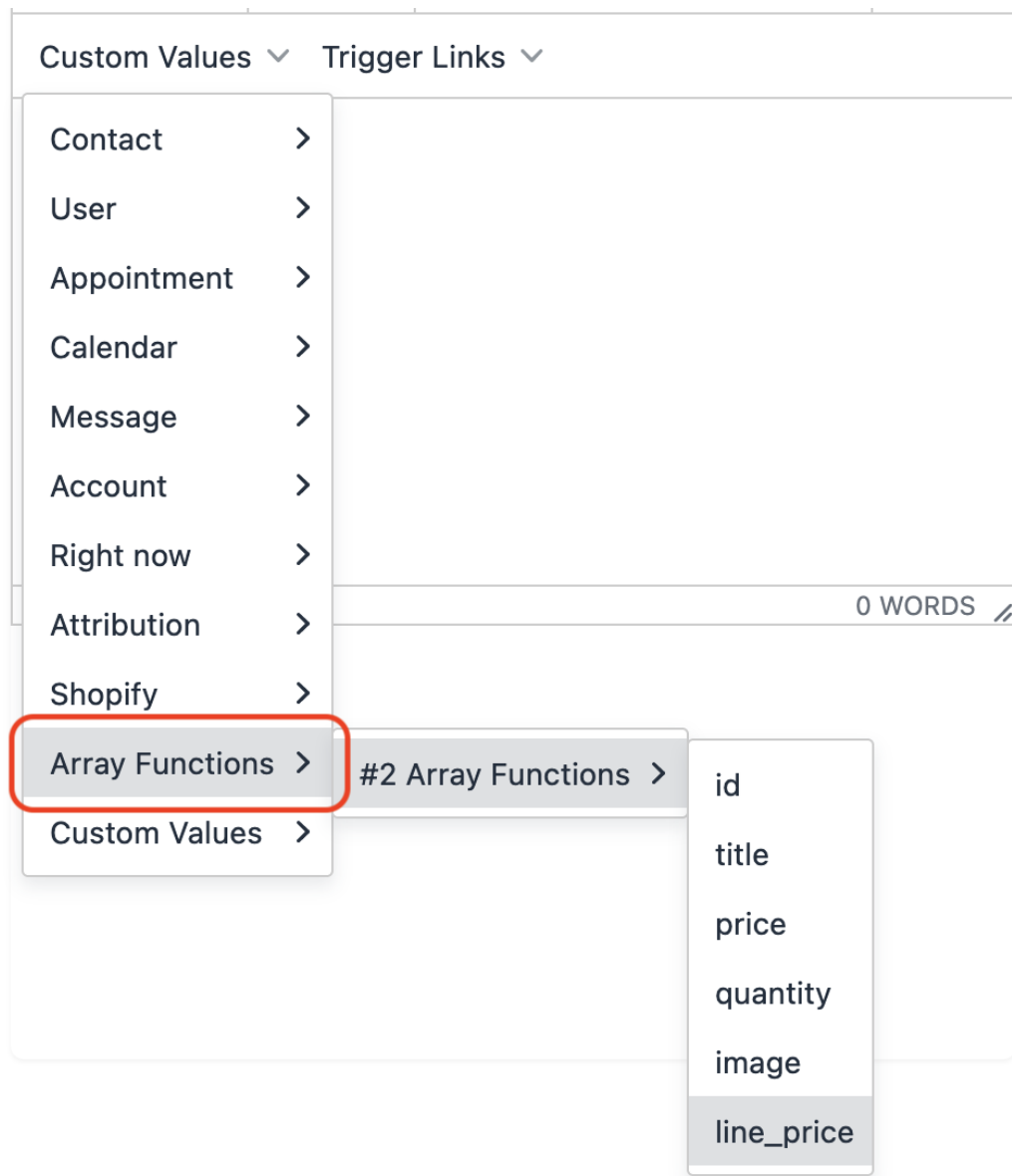
FILTERS

id ▾ zGhad23wfadfa 🏷️ 🗑️

Key ▾ Value 🏷️ 🗑️

[+ Add another item](#)

- By completing the above steps, you can now use the returned object variables from Array Function as custom values in email, sms, if/else, etc. In the below example, the shopify line items variables are listed in the custom values.



2.2 Action Type : Filter

- Select the “Filter” action type from the dropdown. This action type will help in filtering the array by matching key-value in an array of objects.

Use case

- Eg: Filter the array by product group and then send it via Custom Webhook.

Array Functions

Array Function action provide methods to handle with lists from multiple places

ACTION NAME

Array Functions

ACTION TYPE

Filter

Returns filtered array that matches key-value

SELECT FIELD

Select

Cancel

Save Action

- All the fields with data type array available in the workflow are listed here. The list of available array data is collected from Shopify Triggers, Inbound Webhook Trigger and Custom Webhook action response data.

Select Shopify → Line Items

Array Functions ✕

Array Function action provide methods to handle with lists from multiple places

ACTION NAME

Array Functions

ACTION TYPE

Filter ⌵

Returns filtered array that matches key-value

SELECT FIELD

Select ▲

▼ Shopify

Line Items

Cancel

Save Action

- Select Key value to find the matching index.
- The list of key variables from the selected array field are listed here. In this example, the list of shopify line items key variables are listed.

Array Functions



Array Function action provide methods to handle with lists from multiple places

ACTION NAME

Array Functions

id

title

price

quantity

image

line_price

Key



Value



key-value

[+ Add another item](#)

Cancel

Save Action

- Enter value to find the match.

Array Functions

Array Function action provide methods to handle with lists from multiple places

ACTION NAME

Array Functions

ACTION TYPE

Filter

Returns filtered array that matches key-value

SELECT FIELD

Line Items

FILTERS

id

Filter

{{user.name}}

Value

+ Add another item

Cancel

Save Action

- Add another item - You can also find the matching object with multiple key-value pairs by adding another key-value item.

Array Functions ✕

Array Function action provide methods to handle with lists from multiple places

ACTION NAME

Array Functions

ACTION TYPE

Filter ⌵

Returns filtered array that matches key-value

SELECT FIELD

Line Items ✕ ⌵

FILTERS

id ✕ ⌵

{{user.name}} 🏷️ 🗑️

Key ⌵

Value 🏷️ 🗑️

⊕ Add another item

Cancel

Save Action

2.3 Action Type : Find by Index

- Select the “Find by Index” action type from the dropdown. This action type will help in finding the array's index data.

Array Functions

Array Function action provide methods to handle with lists from multiple places

ACTION NAME

Array Functions

ACTION TYPE

Find by index

Returns object at index

SELECT FIELD

Select

Cancel

Save Action

- All the fields with data type array available in the workflow are listed here. The list of available array data is collected from Shopify Triggers, Inbound Webhook Trigger and Custom Webhook action response data.

Select Shopify → Line Items

Array Functions ✕

Array Function action provide methods to handle with lists from multiple places

ACTION NAME

Array Functions

ACTION TYPE

Find by index ⌵

Returns object at index

SELECT FIELD

Select ▲

▼ Shopify

Line Items

Cancel

Save Action

- The entered index value will return.

Array Functions ✕

Array Function action provide methods to handle with lists from multiple places

ACTION NAME

Array Functions

ACTION TYPE

Find by index ⌵

Returns object at index

SELECT FIELD

Line Items ✕ ⌵

INDEX

0

Cancel

Save Action

2.4 Action Type : Line Items

- Select the “Line Items” action type from the dropdown. This action type will help to reconstruct an array with custom keys.

Use case

- To reconstruct the array structure before sending it via Custom Webhook
- To reconstruct the array before storing in Google Sheet (Create Rows - later)
- To reconstruct the array to match Email Builder Shopping cart structure

Array Functions

Array Function action provide methods to handle with lists from multiple places

ACTION NAME

Array Functions

ACTION TYPE

Line Items

Returns a new array with custom fields

SELECT FIELD

Select

Cancel

Save Action

- All the fields with data type array available in the workflow are listed here. The list of available array data is collected from Shopify Triggers, Inbound Webhook Trigger and Custom Webhook action response data.

Select Shopify → Line Items

Array Functions ✕

Array Function action provide methods to handle with lists from multiple places

ACTION NAME

Array Functions

ACTION TYPE

Line Items ⌵

Returns a new array with custom fields

SELECT FIELD

Select ▲

Shopify

Line Items

Cancel

Save Action

- Enter the custom value in the “Key” input field and select the corresponding value from the value dropdown.

Array Functions

✕

Array Function action provide methods to handle with lists from multiple places

ACTION NAME

Array Functions

ACTION TYPE

Line Items

⌵

Returns a new array with custom fields

SELECT FIELD

Line Items

✕ ⌵

FIELDS

Key

Value

⌵

+

 Add another item

Cancel

Save Action

Array Functions



Array Function action provide methods to handle with lists from multiple places

ACTION NAME

Array Functions

ACTION TYPE

Line Items

Returns a new array with custom fields

SELECT FIELD

Line Items

FIELDS

product_id

id

title

price

quantity

image

line_price

Value

[+ Add another item](#)

Cancel

Save Action

- Add another item - You can also find the matching object with multiple key-value pairs by adding another key value item.

Array Functions ✕

Array Function action provide methods to handle with lists from multiple places

ACTION NAME

Array Functions

ACTION TYPE

Line Items ⌵

Returns a new array with custom fields

SELECT FIELD

Line Items ✕ ⌵

FIELDS

product_id

id ✕ ⌵ 

Key

Value ⌵ 

⊕ Add another item

Cancel

Save Action

2.5 Action Type : Math

- Select the “Math” action type from the dropdown. This action type will help to calculate Sum, Min, Max, Avg by matching key-value in an array of objects.

Use case

- Eg: To calculate Sub total(line item total), Line Items in cart(count), Total items (qty).

Array Functions ✕

Array Function action provide methods to handle with lists from multiple places

ACTION NAME

ACTION TYPE

⌵

Returns calculations based on array

SELECT FIELD

⌵

Cancel

Save Action

- All the fields with data type array available in the workflow are listed here. The list of available array data is collected from Shopify Triggers, Inbound Webhook

Trigger and Custom Webhook action response data.

Select Shopify → Line Items

Array Functions ✕

Array Function action provide methods to handle with lists from multiple places

ACTION NAME

Array Functions

ACTION TYPE

Math Functions ⌵

Returns calculations based on array

SELECT FIELD

Select ▲

▼ Shopify

Line Items

Cancel

Save Action

- Select Key value to find the matching index.

- The list of key variables from the selected array field are listed here. In this example, the list of shopify line items key variables are listed.

Array Functions ✕

Array Function action provide methods to handle with lists from multiple places

ACTION NAME

Array Functions

id

title

price

quantity

image

line_price

Value ▲

Cancel

Save Action

- Select or deselect from the list of options available.

Array Functions ✕

Array Function action provide methods to handle with lists from multiple places

ACTION NAME

Array Functions

ACTION TYPE

Math Functions ⌵

Returns calculations based on array

SELECT FIELD

Line Items ✕ ⌵

KEY

quantity ✕ ⌵

OPERATIONS

- ☒ Sum
- ☒ Min
- ☒ Max
- ☒ Average
- ☒ Count

Cancel

Save Action