

Build IoT solutions with YeeLight and Microsoft Flow

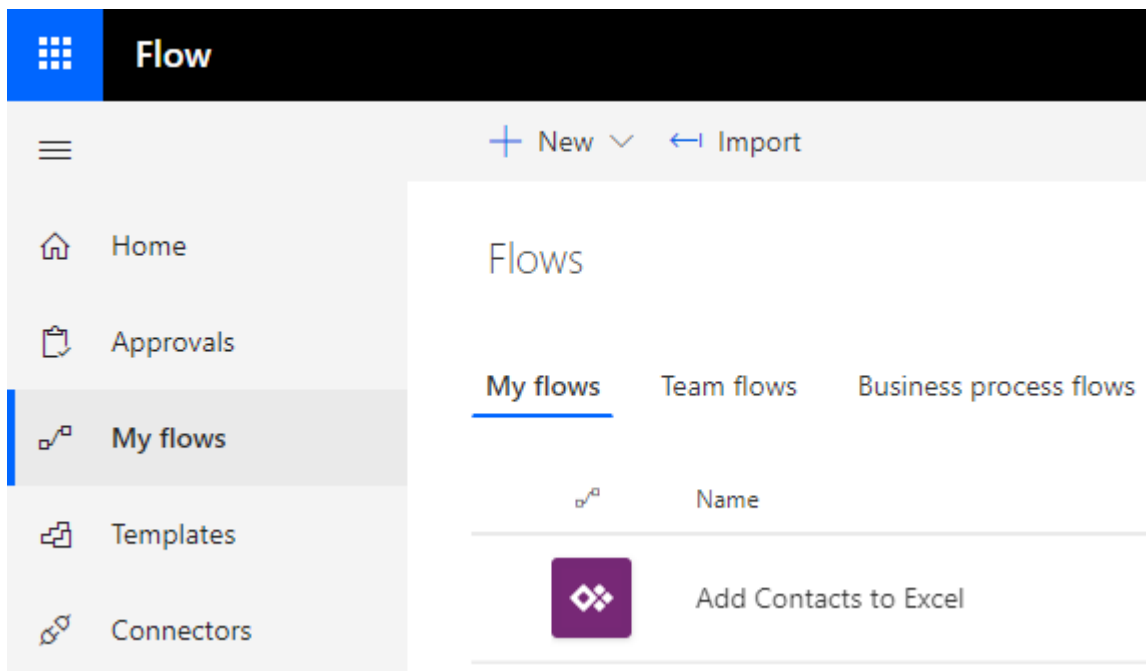
This is a tutorial to build solution with IoT light which integrate with Microsoft Flow. You can keep them around your home and track data about your daily life.

Prerequisites:

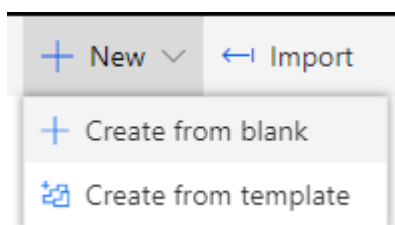
1. [Mi Home Account](#)
2. Registered YeeLight in Mi Home App
3. [Microsoft Flow Account](#)
4. Microsoft Flow App (Android/iOS)

Create a new Microsoft Flow

Sign in to [Microsoft Flow](#) and create new flow in [My flows](#)



Click [Create from blank](#)



Create a flow from blank

Creating a flow is easy, choose a popular trigger to get started.

[Learn more about creating a flow from scratch](#)

Create from blank

▶ See how it works



Add Microsoft Flow trigger

Search **flow** in search bar, then select **Manually trigger a flow**

All
Built-in
Standard
Premium
Custom

SharePoint

Flow button for mobile

Excel Online For Business

PowerApps

Request

OneDrive for Business

Common Data Service

SignNow

OneDrive

Dropbox

Outlook.com

Dynamics 365

Office 365 Outlook

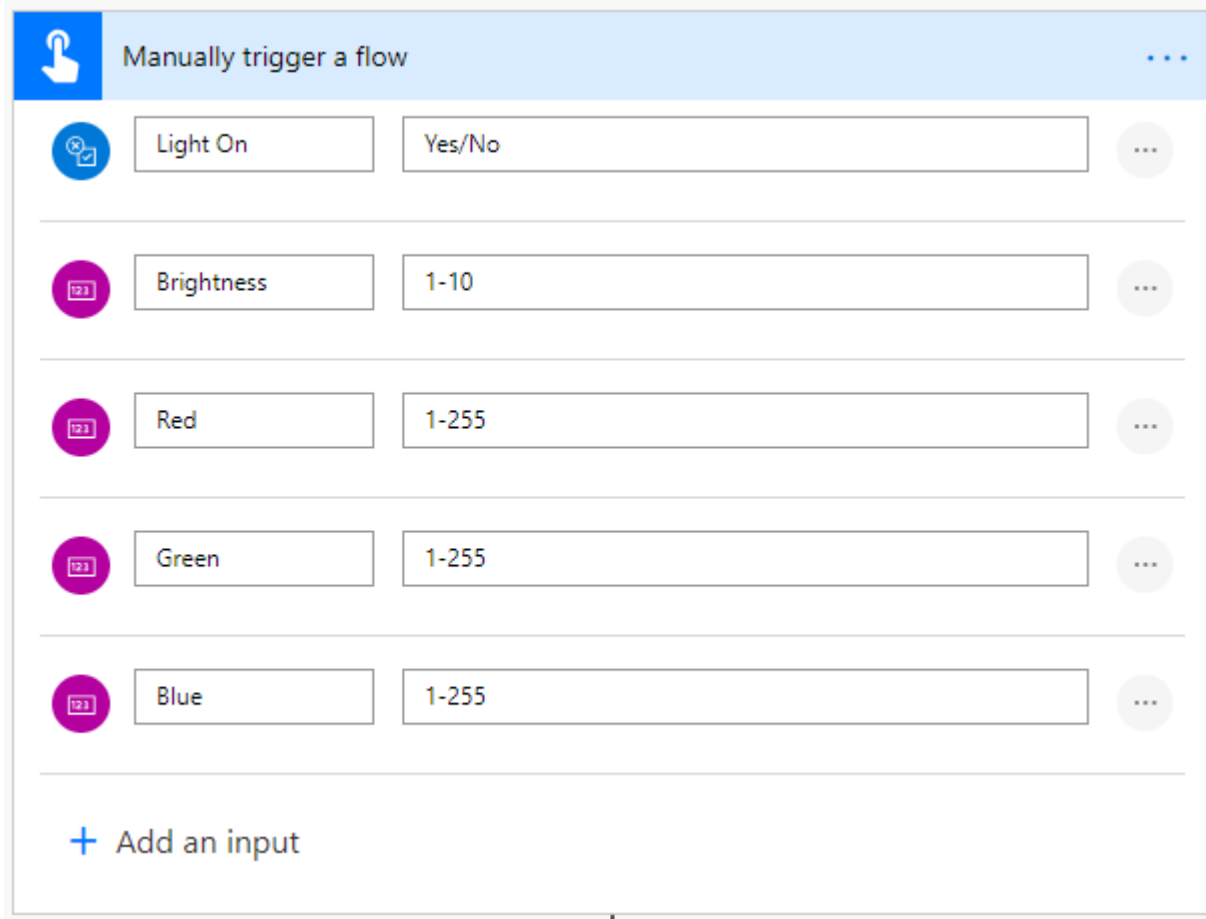
Project Online

Triggers
Actions






For a selected file
SharePoint

Manually trigger a flow
Flow button for mobile

Add inputs as below (Light On: Yes/No, Brightness: number, Red: number, Green: number, Blue: number)



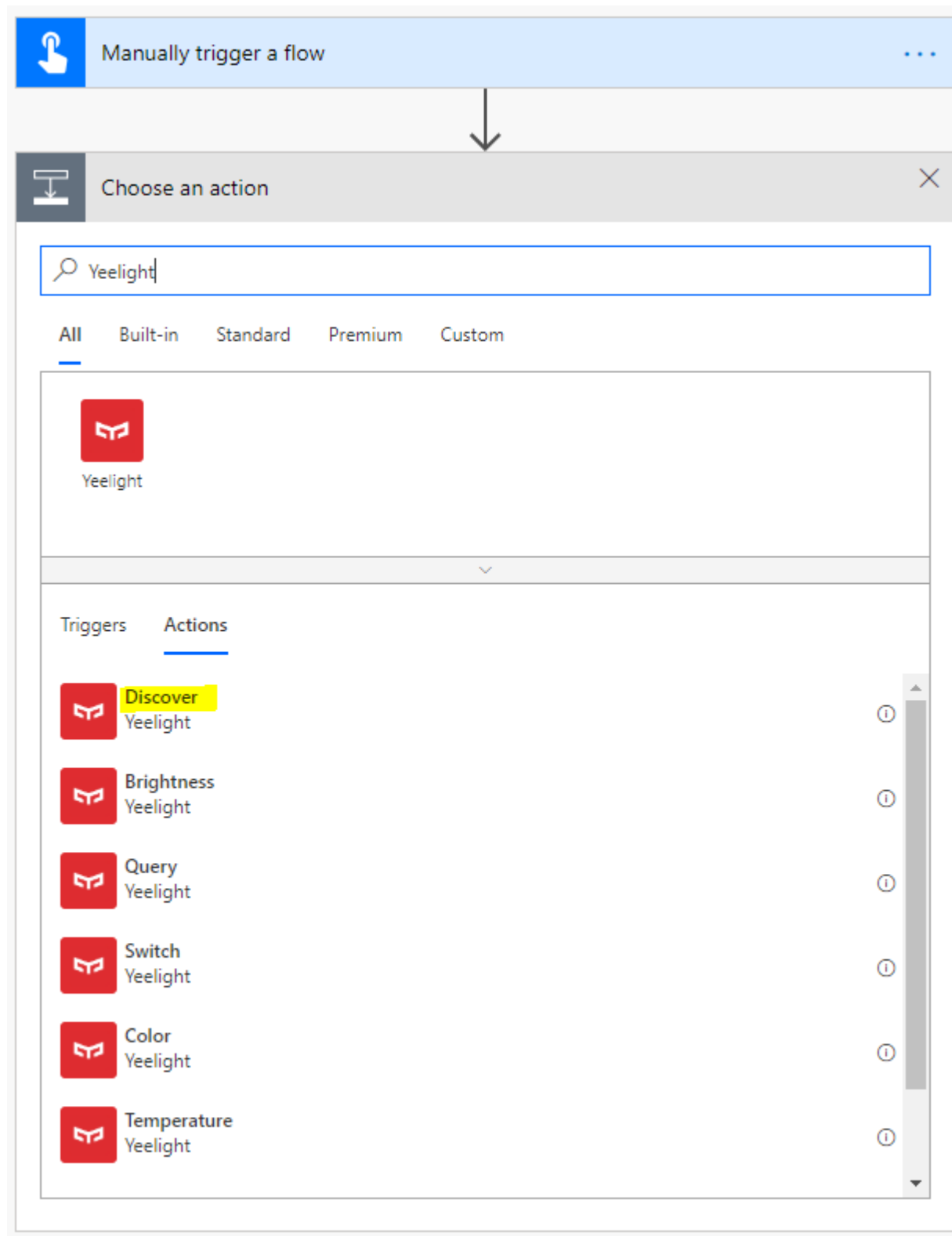
Manually trigger a flow

	Light On	Yes/No	...
	Brightness	1-10	...
	Red	1-255	...
	Green	1-255	...
	Blue	1-255	...

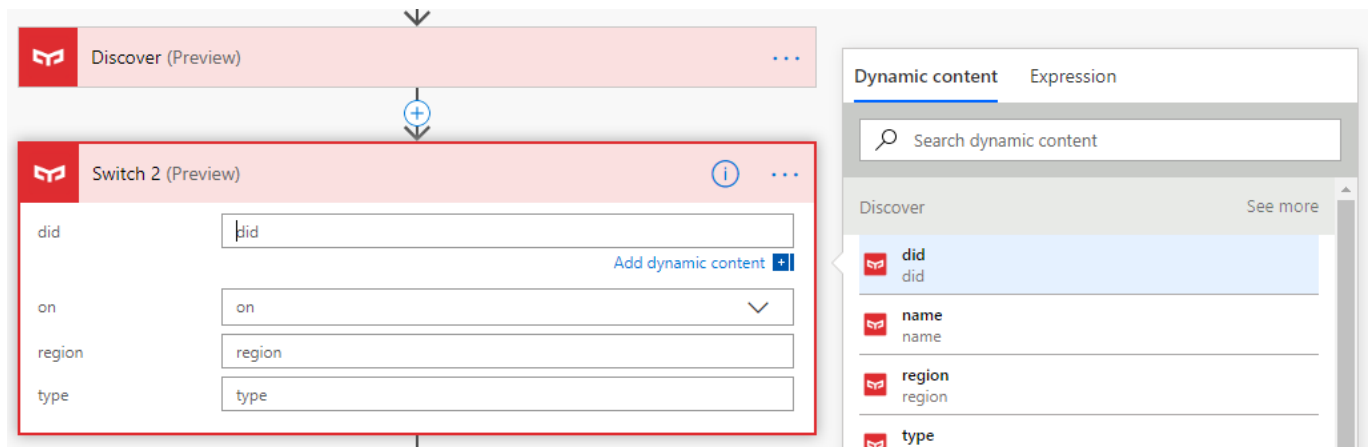
+ Add an input

Add Microsoft Flow action

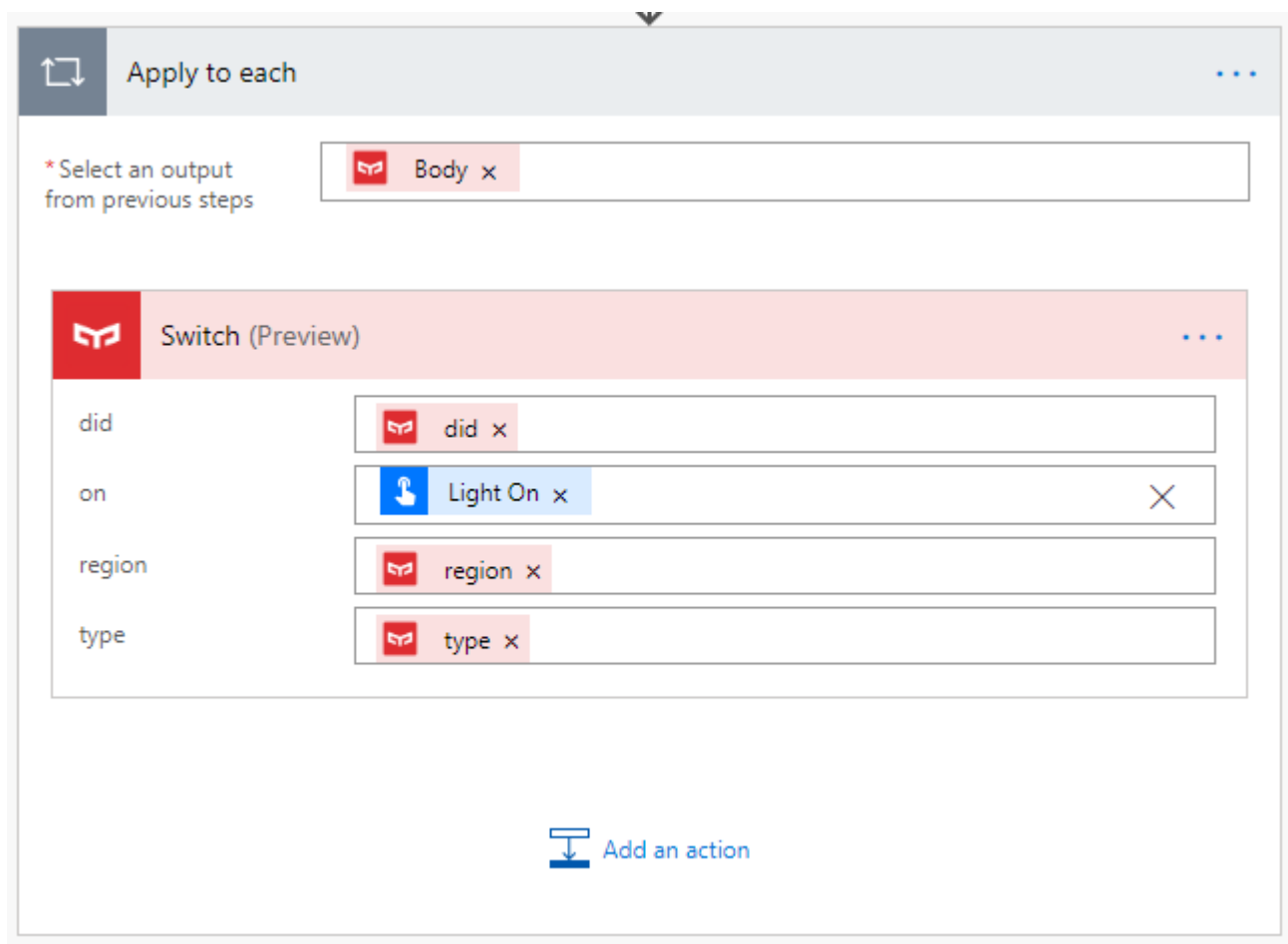
1. Click + below the trigger
2. create an action
3. Search **Yeelight**
4. Select **Discover**



5. Repeat **1-4**
6. Select **Switch**
7. Click **did** text field and select **did** in dynamic content



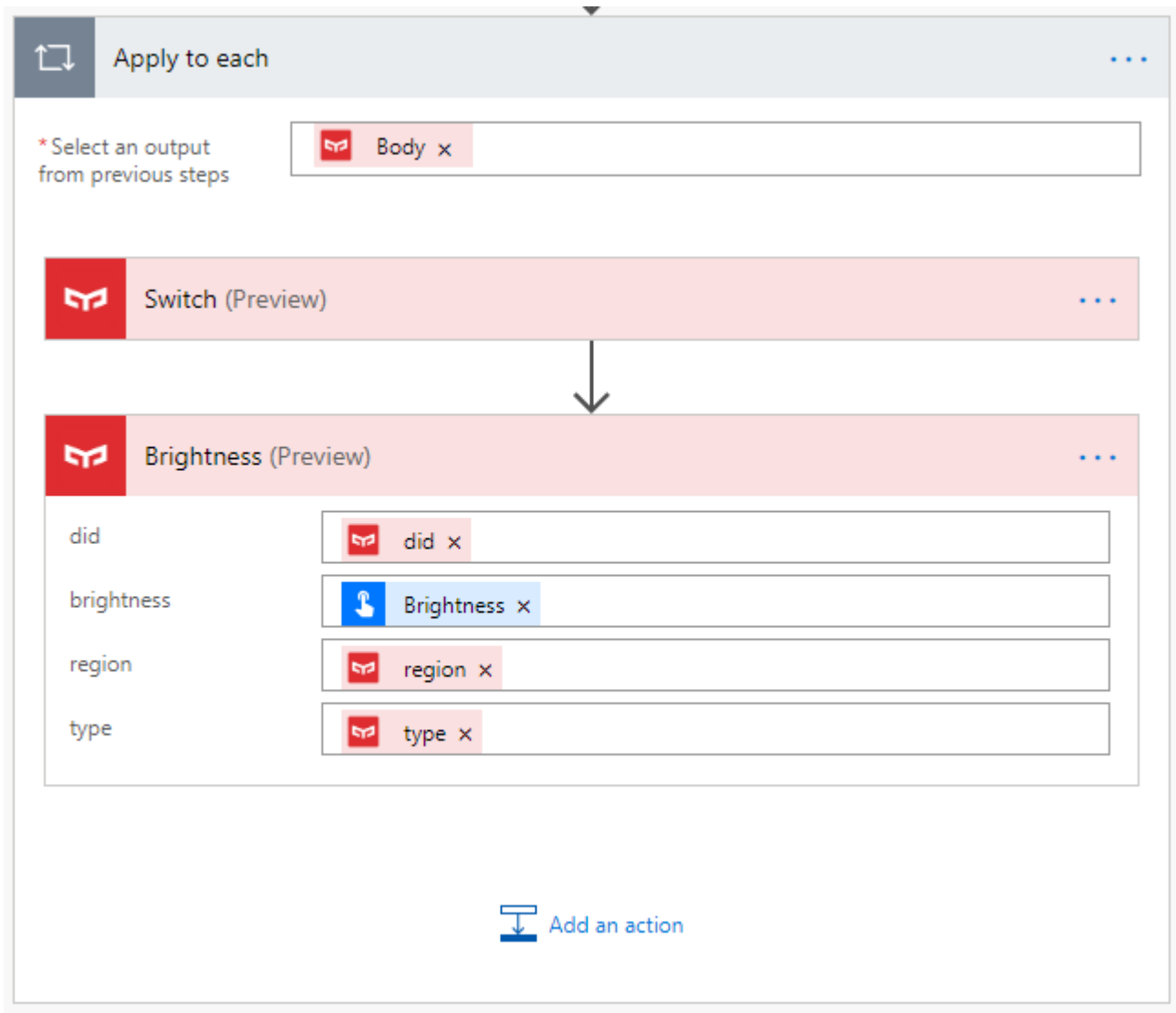
8. Fill in the rest like image below



9. Repeat **1-4**

10. Select **Brightness**

11. Fill in the rest like image below



9. Repeat **1-4**

10. Select **Color**

11. Fill in the rest like image below. The fomula is

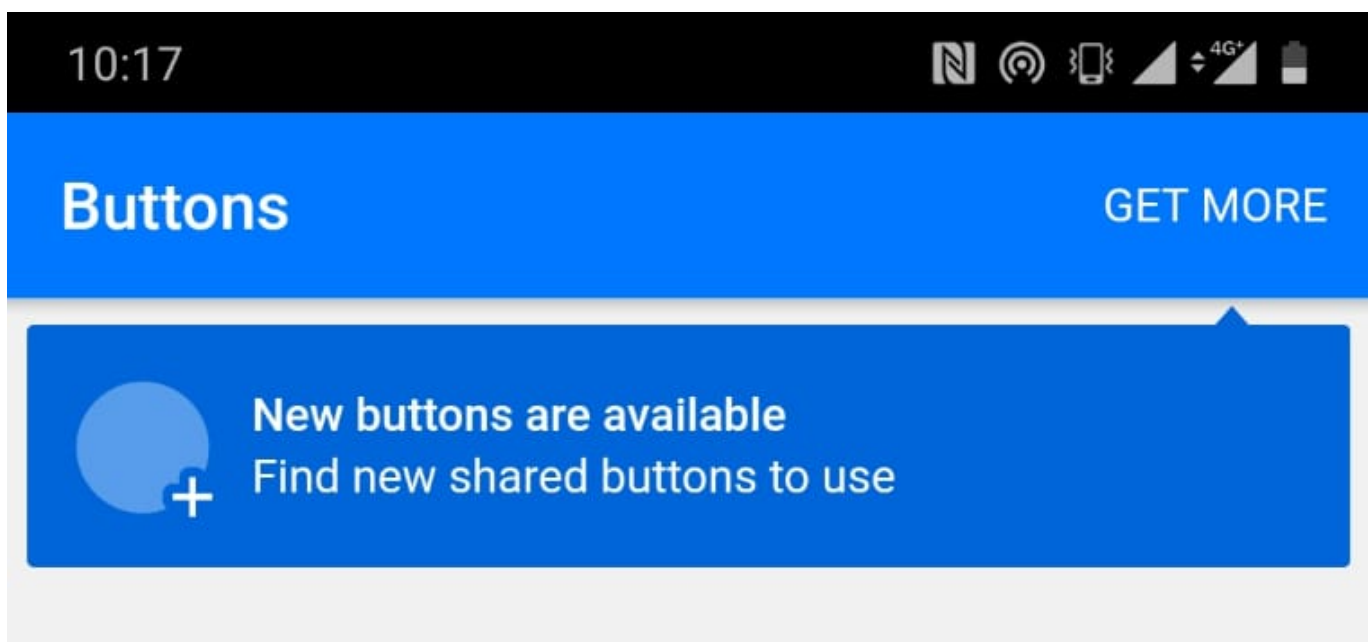
```
add(add(mul(triggerBody()['number_1'], 65536), mul(triggerBody()['number_2'], 256)),
triggerBody()['number_3'])
```

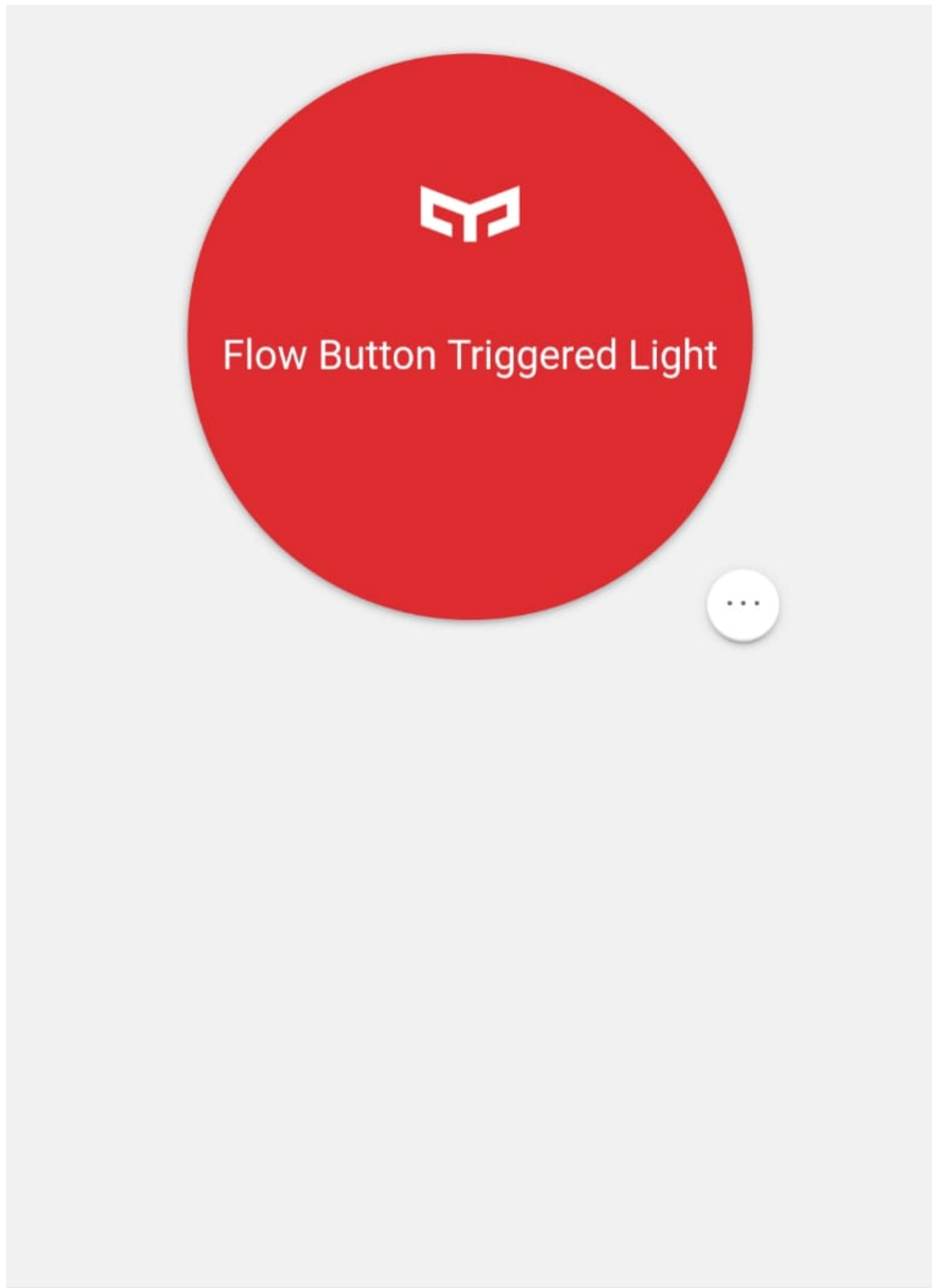
The screenshot shows the Microsoft Flow Designer interface. At the top, there's a section 'Apply to each' with a dropdown menu showing 'Body x'. Below this, a workflow is shown with three actions: 'Switch (Preview)', 'Brightness (Preview)', and 'Color (Preview)'. The 'Color (Preview)' action is expanded, showing four input fields: 'did' (set to 'did x'), 'spectrumRGB' (set to 'add(...)' with a dynamic content icon), 'region' (set to 'region x'), and 'type' (set to 'type x'). Below the 'Color' action, there's a button 'Add an action'. At the bottom, there are buttons for '+ New step' and 'Save'. On the right side, there's a panel titled 'Dynamic content' with a tab 'Expression'. It shows a list of functions: 'concat(text_1, text_2, ...)', 'contains(collection, value)', 'length(collection)', 'if(expression, valueIfTrue, valueIfFalse)', 'equals(object1, object2)', and 'and(expression1, expression2)'. The 'concat' function is selected, and its expression is shown as 'add(add(mul(triggerBody()['number_1'], 655...))'.

RGB (Red, Green, Blue) are 8 bit each. The range for each individual colour is 0-255 (as $2^8 = 256$ possibilities). The combination range is 256256256.

Test Microsoft Flow

Open Microsoft Flow App in mobile phone and test





10:18

4G+

Flow Button Triggered Light DONE

Light On
Yes/No

Brightness
1-10

Red
1-255

Green
1-255

Blue
1-255

