Snapino IFTTT by Daniel Porrey Snap Circuits IoT https://www.hackster.io/snapcircuits



OBJECTIVE: This experiment will demonstrate connecting the Snapino to a IFTTT Maker Webhook using the Arduino Wi-Fi 101 Shield and the Snap Circuits Motion Detector to trigger events.

Parts List			
Quantity	ID	Name	Part #
1		Base Grid Base Grid (11" x 7.7")	6SCBG
1	1	1-snap wire	6SC01
4	2	2-snap wire	6SC02
1	U31	Snapdino	6SCU31
1	U7	Motion Detector	6SCU7
1	R1	100 Ω Resistor	6SCR1
1	D2	Green LED	6SCD2
1	J3	Jumper Wire (white)	SCJ3F
1	JW10	Yellow Snap-to-Pin wire (or use the red wire that comes with the Snapino)	SCJW10

Step by Step Guide

- 1) Create and setup the IFTTT account and Applets. See the accompanying IFTTT PDF document included with this project.
- 2) Place the upper-left corner of the Snapduino at **B5**.
- 3) Snap component **R1** between position **E3** and **E5**.
- 4) Snap component **D1** between position **F3** and **F5**.
- 5) Snap a 2-snap wire over the components between **B4** and **B5**.
- 6) Snap a 2-snap wire over the components between **D4** and **D5**.
- 7) Snap a 2-snap wire over the components between E3 and F3.
- 8) Snap a 3-snap wire over the component at **E5**.
- 9) Snap a 2-snap wire over the components between **D5** and **E5**.
- 10) Snap one end of the white jumper wire on the component at C4.
- 11) Snap the other end of the white jumper wire on the component at **D6**.
- 12) Connect the snap end of a yellow wire onto the component at position **F5**.
- 13) Connect the pin-end of the yellow wire to **D3** on the Snapino.

- 14) The clear plastic cover on the Snapino will need to be remove for the Wi-Fi 101 shield to fit. Using a small Philips screwdriver, remove the screw on top of the Snapino and remove the plastic cover.
- 15) Plug the Wi-Fi 101 Shield into the top of the Snapino ensuring proper alignment of the pins.
- 16) Connect the USB cable between the Snapino and your computer.
- 17) Open the sketch for this project in the Arduino IDE.
- 18) Enter your Wi-Fi SSID and password. Also, enter the IFTTT key.
- 19) Select Arduino Genuino/Uno as the board type.
- 20) Open the Serial Monitor.
- 21) Upload the sketch to the Snapino.
- 22) Check the Serial Port Monitor to view the messages from the code.
- 23) Watch the serial port output to ensure a Wi-Fi connection is made.
- 24) After the WiFi connection is made, wave your hand in front of the motion detector to trigger the "**motion**" event.
- 25) After 30 seconds, the "nomotion" event will be triggered.
- 26) Log into the IFTTT web site and watch the events. In the menu, choose Services. Next select the Maker Web Hooks and then Settings. Finally, click the View activity log.

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