Hong Kong Product Design Makeathon 2017-2018

全港中小學產品設 計大賽2017-2018

第六場工作坊 18 Nov 2017





What is Cloudbit?

- A fast and easy way to create Internetenabled inventions
- Automate your littleBits inventions throug the Internet
- An embedded Linux System
- 64MB RAM, 4GB SD Card
- Support 802.11b/g/n
- Support the following security standards:
 - Open (no encryption)
 - WEP
 - WPA
 - WPA2



littleBits Smart Home Kit





MP3 PLAYER



NUMBER



littleBits CloudBit Starter Kit



How the Cloudbit Works

Input: From Bit to Web

The cloudBit acts as an input by receiving signal from your littleBits circuit and sending it to the internet.





How the Cloudbit Works

Output: From Web to Bit

The cloudBit also acts as an output by sending signal from an event on the internet to your littleBits circuit.





Controlling the Cloudbit







IF THIS THEN THAT/IFTTT



http://developers.littlebitscloud.cc/



1. Go to littleBits' GETTING STARTED WITH THE CLOUDBIT site and choose Sign Into Cloud Control



2. You should see this page, click **STATUS LIGHT IS BLINKING**



3. Connect your cloud bit to a USB power and press hold the button



4. Stop pressing until you see a steady blue light



5. Press the **BLUE LIGHT IS STEADY** button



6. Open your wifi setting & choose littleBits_Cloud_.....



7. Wait



8. Then choose your original network

← → C C control.littlebitscloud.cc		무 ☆ <mark>-</mark>
Cancel	SETUP	6
	~ (3(5)	Í
	CONNECT YOUR CLOUDBIT	
	Tell your cloudBit what local wifi to connect to by selecting	
	CHOOSE A NETWORK	
	HP.Print-SA-Officejet 6700	
	Discovery-Guest 🔒 📚	
	Superwifi Network 0 🔒 📚	
	Ampletree 🔒 📚	
	NETGEAR 🔒 🛜	
	SAPLHK 🔒 🛜	
	Renopipe 🔒 🔶	
	ASUS-CORSA 🔒 🛜	
	Other Network (Hidden)	

9. And login

\leftarrow \Rightarrow C incontrol.littlebitscloud.cc		T 😭 🗮
Cancel	SETUP	0
	CONNECT YOUR CLOUDBIT	
	Tell your cloudBit what local wifi to connect to by selecting it below: Enter password for Discovery-Guest x x x x x x x x x x x x x	



10. You should then see this page



11. Then this page

	¶☆
CONNECTING	
	CONNECTING

() WAITING FOR YOUR CLOUDBIT TO CONNECT



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12. After a while your light should turn green



13. And the webpage will refer you back to this. This means you have setup your CLOUDBIT correctly



14. Now go to IFTTT App on your iPad/ Android tablet and sign in

Sign in to your IFTTT account	
Email or username	
Password	
Reset password	
Sign in	
Don't have an account? Sign up	
0 O	

15. Click My Applets and +



16. In Applet Maker, Click this





Want to build even richer Applets?

17. Type in littleBits then click the icon



18. Type in littleBits then click the icon



19. Choose Connect then choose Authorize

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Settings



littleBits is an opensource library of electronic modules that snap together with magnets for prototyping, learning and fun. Connect your littleBits Cloud module to every thing on the internet!

Connect

20. Login with your littleBits.cc username and password to authorize

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	You need to sign in or sign up before continuing.			×
	SIGN IN			
	Emoil			
	SIGN IN			
	Forgot your Password?			
	Sign in with Facebook We will never post anything on Facebook without your permission			

21. If you see this, then you can find your CLOUDBIT in IFTTT



22. Choose Turned On



Choose trigger



23. Choose your CloudBit

iPad 중	上午11:58	44% 💶 🔿
<	Applet Maker Configure trigger	Next
	Turned On This Trigger fires every time your cloudBit receives an input signal from another littleBits module.	
	Which cloudBit? No options found	

24. Now choose that

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×	Applet Maker	?



Want to build even richer Applets?

25. Type and choose Gmail



26. Choose Send an Email



Choose action

Send an email

27. Type in your email address and the message you want to see when someone presses the input button then press **Next**

iPad 🗢	下午12:05	43% 🗖
<.	Applet Maker	Next
	Send an email This Action will send an email to up to five	
	Body	
	PowerPercent % power >via littleBits Attachment URL	
	Subject ' DeviceName ' input received TurnedOnAt	
	To address	

28. Check and click Finish

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	لی اور کی	
	Receive notifications when this Applet runs	
	Finish	

29. You've set up a new Applet



Applet ID 44297178d