

Doorbell - basics

The micro:bit has two buttons, A and B. MicroBlocks can detect three button press states: A, B, or A+B pressed at the same time.







Doorbell - radio

Use micro: bits to communicate over radio sending three button press states: A, B, or A+B pressed at the same time. Build everything you see on this page, including making a string variable and three blocks in My Blocks.



set all NeoPixels color



set all NeoPixels color

pressed

display

set all NeoPixels color



Doorbell - webthing

Connect both the RGB LED stick and the piezo to the micro:bit. Open the Web of Things library.



Extender RGB LEDs Piezo

Now tie the button presses to web of things "events" that can be displayed on the Mozilla WebThings Gateway.



Can you create more complex tones and displays that blink?



<u>http://microblocks.fun</u>



Doorbell - webthing

Run the example on your micro:bit, then connect it to the Mozilla WebThings Gateway USB port.



Click the "+" icon on the Things page (lower right corner) to discover the Doorbell. Click "Save", then "Done".

Now try pressing button A, B, and both A+B at the same time. What happens?



(show screen shots of pushed state too.)

Click the splat bubble, in the lower right select "Event Log" to see button press history.



	Doorbell
pressed	3 mins ago
double-pressed	1 hour ago
pressed	1 hour ago
long-pressed	1 hour ago

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