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Internet Music

To Pin **3V3** on Photon (red wire)

To Pin **D2** on Photon (yellow wire)

To Pin **D3** on Photon (green wire)
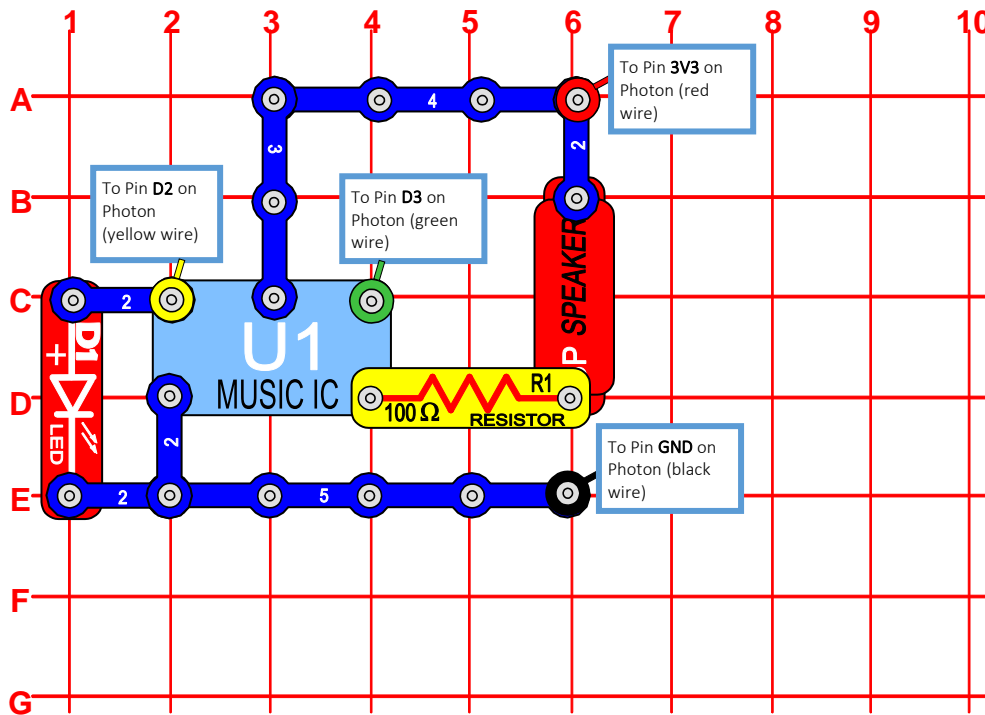
To Pin **GND** on Photon (black wire)

OBJECTIVE: To show how to use a Photon and Tinker to turn trigger music from your smartphone.

Parts List

Quantity	ID	Name	Part #
1		Base Grid Base Grid (11 x 7.7)	6SCBG
4		1-snap wire	6SC01
1		2-snap wire	6SC02
1		3-snap wire	6SC03
1		4-snap wire	6SC04
1		5-snap wire	6SC05
1	D1	Red LED	6SCD1
1	R1	100 Ω Resistor	6SCR1
1	SP	Speaker	6SCSP
1	U1	Music IC	6SCU1
4		Snap-to-Pin wire (red, black, green and yellow)	SCJW10

Step by Step Guide

1) Snap component **D1** between **C1** and **E1**

2) Snap the four corners of the component **U1** at **C2**, **D2**, **C4** and **D4** (see diagram for correct orientation)

3) Snap component **SP** between **B6** and **D6**

4) Connect a 4 snap wire between **A3** and **A6**

5) Connect a 5 snap wire between **E2** and **E6**

6) Snap component **R1** over the components at **D4** and **D6**

7) Connect a 2 snap wire over the components at **E2** and **D2**

8) Connect a 1 snap wire over the component at **E1**

9) Connect a 2 snap wire over the components at **E1** and **E2**

10) Connect a 2 snap wire over the components at **C1** and **C2**

11) Connect a 3 snap wire over the components at **A3** and **C3**

12) Connect a 2 snap wire over the components at **A6** and **B6**

13) Connect the snap end of a **black** wire onto the component at position **E6**

Step by Step Guide (continued)

14) Plug the bread board end of the **black** wire from step 13 into **GND** on the Photon in the breadboard

15) Connect the snap end of a **red** wire onto the component at position **A6**

16) Plug the bread board end of the **red** wire from step 15 into **3V3** on the Photon in the breadboard

17) Connect the snap end of a **green** wire onto the component at position **C4**

18) Plug the bread board end of the **green** wire from step 17 into **D3** on the Photon in the breadboard

19) Connect the snap end of a **yellow** wire onto the component at position **C2**

20) Plug the bread board end of the **yellow** wire from step 19 into **D2** on the Photon in the breadboard

21) Connect your Photon to your power source

22) Open the Tinker application on your smartphone

23) Choose Get Started and select your Photon board in the UI

24) Click the **D2** button and select **digitalWrite**

25) Click the **D2** button to set the pin to HIGH. Music will play once and the LED will stay lit until your set this pin back to LOW

26) Click the **D3** button and select **digitalWrite**

27) Click the **D3** button to set the pin to HIGH. Music will until your set this pin back to LOW