



#3 Little Band

LEVEL: ★

Build a little band and play great songs!



Rules of playing:

1. Click to start and to stop;
2. The drum will play by itself;
3. Click the piano to start playing a song.

Have fun!

Try this project online:

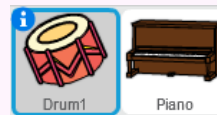
<https://scratch.mit.edu/projects/155875397/>

The blocks you will need:

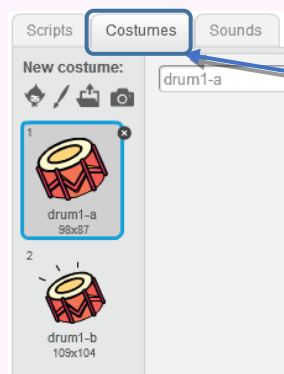


1

Create *Sprites*: to begin with, we need two music instruments, a drum and a piano.



Click here to choose 2 sprites: Drum1 and Piano.



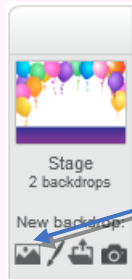
While Drum1 is selected, click *Costumes* to see all its costumes / pictures .

It's the music show, so we don't need the cat this time. To remove it from the stage, click the right mouse button on it, and then select delete.



2

Select the backdrop of the *stage*: party.



Click this image to select a backdrop picture: party.

3



Select Drum1. Now we will let it play some really cool beats. Drag and drop the following blocks for it:



We will play different drums in the following order:

- 1) 1, Snare Drum
 - 2) 6, Closed Hi-Hat
 - 3) 2, Bass Drum
 - 4) 6, Closed Hi-Hat again
- Then repeat the steps above.

4



Now let's select the piano. We want it to play a simple song, Mary Had a Little Lamb. Here is the note sheet:

```

MARY HAD A LITTLE LAMB

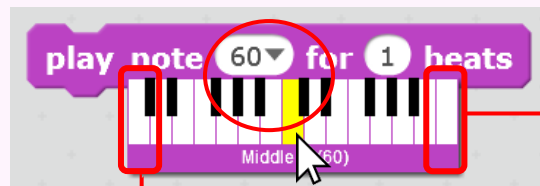
MARY HAD A LITTLE LAMB,
A G F G A A A

LITTLE LAMB, LITTLE LAMB.
G G G A A A

MARY HAD A LITTLE LAMB,
A G F G A A A

IT FLEEC WAS WHITE AS SNOW.
A G G A G F
    
```

In Scratch, to play a note, we use block *play note ... for ...* :



By default, the highest note of the keyboard is High C (=72).

By default, the lowest note of the keyboard is Low C (=48).

Selected note is highlighted. You can also type any number from 0 to 127.

Using the note sheet above, we create the following blocks. Because there is quite a long list of blocks, we separate them into 4 parts, and each part is for a **line** on the note sheet.

1 is piano.

Mary had a little lamb

part 1


part 2

part 3

part 4

For a long list of blocks, using comment can help remember what the blocks are for. To add a comment:
 1. Click right mouse button on a block;
 2. Select *add comment*.

It may take a little while to finish all the blocks. Once done, remember to **glue** all blocks one after another.

 Now enjoy the music!



Knowledge nuggets

In Scratch, you can play many types of instruments. So why not have a try? Use the ones you like for your own music work!

There are 18 different types of drums:

play drum 1 ▾ for 0.25 beats



Bell



Piano-Electric



Trombone

- (1) Snare Drum
- (2) Bass Drum
- (3) Side Stick
- (4) Crash Cymbal
- (5) Open Hi-Hat
- (6) Closed Hi-Hat
- (7) Tambourine
- (8) Hand Clap
- (9) Claves
- (10) Wood Block
- (11) Cowbell
- (12) Triangle
- (13) Bongo
- (14) Conga
- (15) Cabasa
- (16) Guiro
- (17) Vibraslap
- (18) Open Cuica



Guitar



Guitar-Bass



Guitar-Electric



Drum-Tabla



Drum1



Drum2

21 different types of instruments:

play note 60 ▾ for 0.5 beats

- (1) Piano
- (2) Electric Piano
- (3) Organ
- (4) Guitar
- (5) Electric Guitar
- (6) Bass
- (7) Pizzicato
- (8) Cello
- (9) Trombone
- (10) Clarinet
- (11) Saxophone
- (12) Flute
- (13) Wooden Flute
- (14) Bassoon
- (15) Choir
- (16) Vibraphone
- (17) Music Box
- (18) Steel Drum
- (19) Marimba
- (20) Synth Lead
- (21) Synth Pad



Saxophone



Ukulele



Trumpet



Drum-Bass



Drum-Conga



Drum-Snare

Some more blocks to play with:

play note 60 ▾ for 0.5 beats ▶ C to Low C

play note 59 ▾ for 0.5 beats

play note 57 ▾ for 0.5 beats

play note 55 ▾ for 0.5 beats

play note 53 ▾ for 0.5 beats

play note 52 ▾ for 0.5 beats

play note 50 ▾ for 0.5 beats

play note 48 ▾ for 0.5 beats

play note 60 ▾ for 0.5 beats ▶ C to High C

play note 62 ▾ for 0.5 beats

play note 64 ▾ for 0.5 beats

play note 65 ▾ for 0.5 beats

play note 67 ▾ for 0.5 beats

play note 69 ▾ for 0.5 beats

play note 71 ▾ for 0.5 beats

play note 72 ▾ for 0.5 beats

What about another song, Jingle Bells?

JIN- GLE BELLS, JIN- GLE BELLS, JIN- GLE ALL THE WAY.

E E E- E E E, E G C D E---

OH WHAT FUN IT IS TO RIDE IN A ONE HORSE OP- EN SLEIGH!

F F F F F E E E E D D D D-G-

JIN- GLE BELLS, JIN- GLE BELLS, JIN- GLE ALL THE WAY.

E E E- E E E, E G C D E---

OH WHAT FUN IT IS TO RIDE IN A ONE HORSE OP- EN SLEIGH!

F F F F F E E E E G G F D C

