Muse

Hack Club

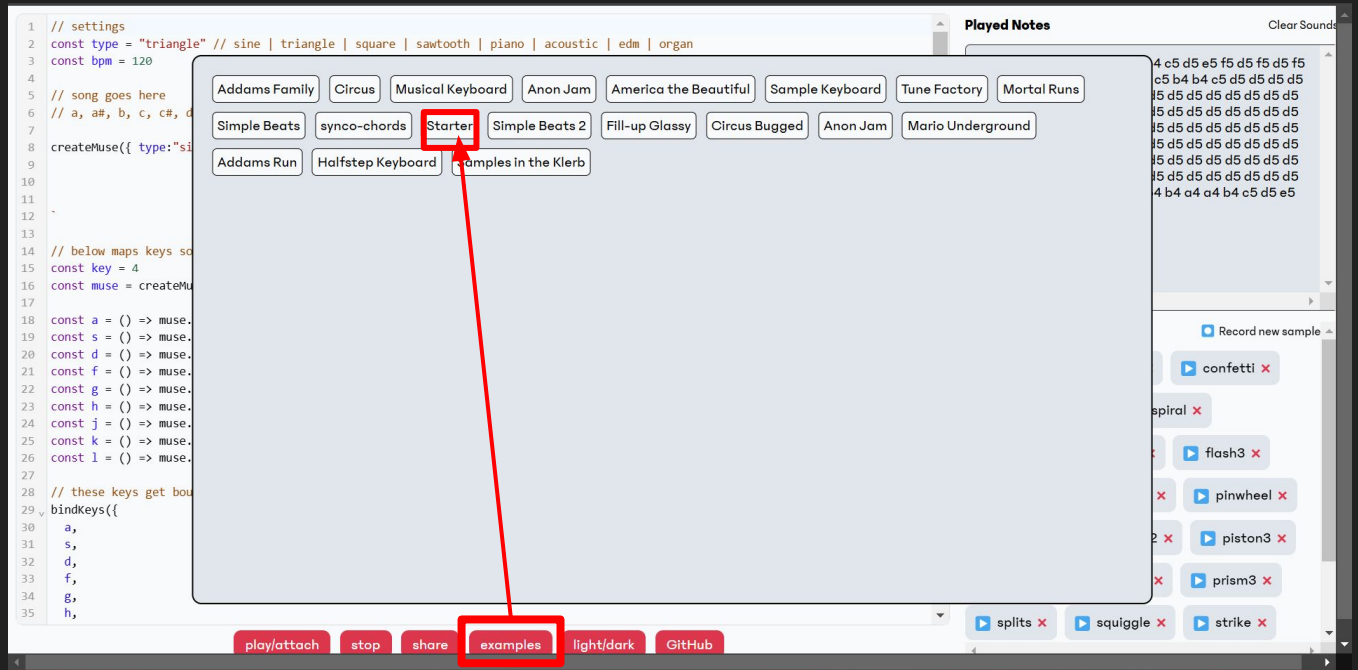
muse.hackclub.com

Sound Visualization

Getting Started:

1. Open the muse editor:

muse.hackclub.com



Tips on composing your first song

Think small, then repeat

- Most music (and code) is made up of repetitive chunks that build into larger structures.
- Using this approach in Muse can make composing easier and reduce typing.

```
createMuse({ type:"sine", bpm }).play`

[c4; e4; g4; e4;]

`
```

Start with a simple cell

- Example: `[c4; e4; g4; e4;]`
- Then, **multiply it** to create patterns.

Use the Starter template in Examples

- This template has key bindings for notes.
- Allows you to **sketch ideas** quickly before finalizing them.

Composing our first song

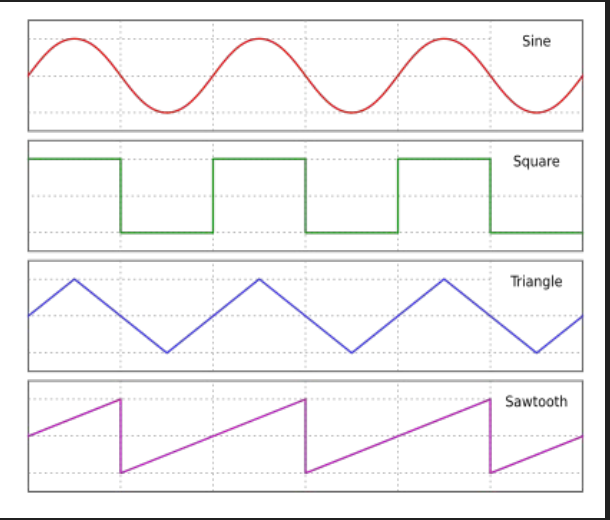
```
createMuse({ type:"sine", bpm }).play`

[ f5+ ;+ g5+ ;+ c5+ ; g5+ ;+ a5 ;+ c6 ;-- a#5 ;-- a5 ; f5+ ;+ g5+ ;+ c5+ ;+++ ] x 2

`
```

- You can lengthen notes by appending a `+`
- shorten them by appending a `-`
- To repeat something use `x` and some number
- Add a rest (pause) using `;`

Composing our first song

```
1  // settings
2  const type = "triangle" // sine | triangle | square | sawtooth | piano | acoustic | edm | organ
3  const bpm = 120
```

- Bpm - beats per minute
- Type - type of synthesizer to use
- Offset notes up by half steps with a ^
- Offset notes down by half steps with a _

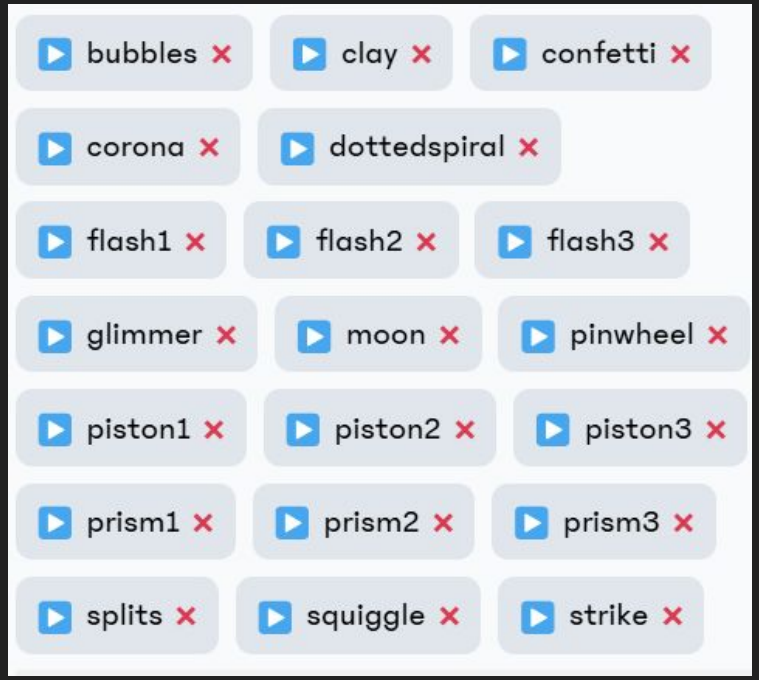


Composing our first song

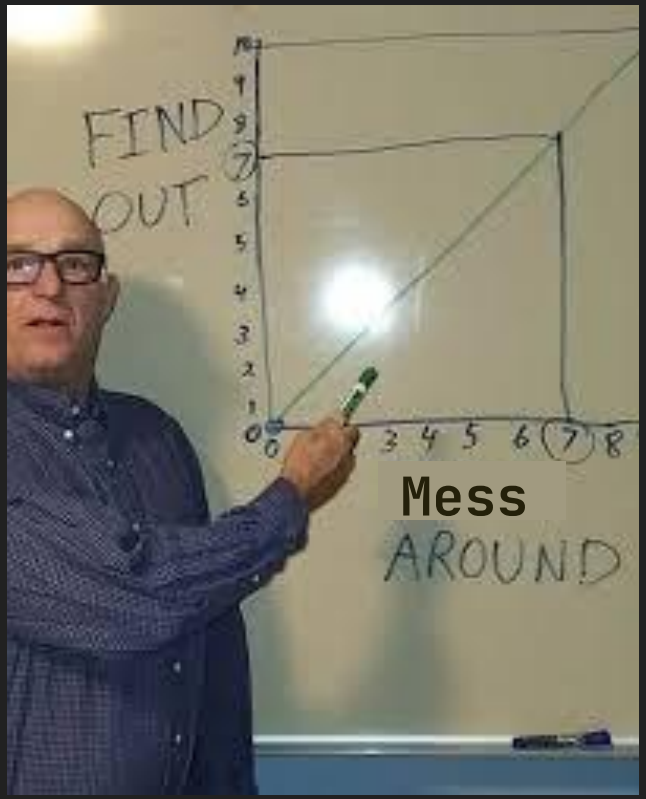
- Layer sounds for depth
  - Once you have a musical idea, write additional `createMuse` functions to build on it.
  - You can add as many layers as you want to enhance complexity.
- Build chords in Muse
  - Stack individual notes to form chords, e.g., `[c4 e4 g4 b4;]`.

Using Samples

```
createMuse()
.play`
 [bubbles ;+ bubbles ;+] x 10
`
.play`
 [ ; flash1 ;+ bubbles ;+ ] x 10
`
.play`
[ ;; pinwheel ;; ] x 10
`

```



Hacking Time



Try Running This!

```
[ f5++ ;- ; g5++ ;- ; c5++ ; g5++ ;- ; a5++ ;- ; c6 ;-- a#5 ;-- a5 ;- f5++ ;- ; g5++ ;- ; c5++ ; ;++ ] x 2

d5+ ;- e5+ ;- f5+ ;- f5+ ;- g5+ ;- e5 ;-- d5 ;-- c5++ ; ;++ d5+ ;- d5+ ;- e5+ ;- f5+ ;- d5++ ; c5+ ;- c6++ ; c6+ ;- g5++ ; ;+

d5+ ;- d5+ ;- e5+ ;- f5+ ;- d5+ ;- f5+ ;- g5++ ; e5+ ;- d5+ ;- c5++ ; ;+ d5+ ;- d5+ ;- e5+ ;- f5+ ;- d5+ ;- c5++ ; g5+ ;- g5+ ;- g5+ ;- a5+ ;- g5++ ;+

f5+++ ; ;+ g5+ ;- a5+ ;- f5+ ;- g5+ ;- g5+ ;- g5+ ;- a5+ ;- g5++ ; c5++ ; ;+ d5+ ;- e5+ ;- f5+ ;- d5+ ; g5+ ;- a5+ ;- g5+ ;

c5 ;-- d5 ;-- f5 ;-- d5 ;-- a5+ ;-- ;- a5+ ;-- ;- g5++ ;- ; c5 ;-- d5 ;-- f5 ;-- d5 ;-- g5+ ;-- ;- g5+ ;-- ;- f5+ ;-- ;- e5 ;-- d5+ ;-

c5 ;-- d5 ;-- f5 ;-- d5 ;-- f5++ ; g5+ ;- e5+ ;-- ;- d5 ;-- c5++ ; c5+ ;- g5++ ; f5++ ;++

c5 ;-- d5 ;-- f5 ;-- d5 ;-- a5+ ;-- ;- a5+ ;-- ;- g5++ ;- ; c5 ;-- d5 ;-- f5 ;-- d5 ;-- c6+ ;-- ;- e5+ ;-- ;- f5+ ;-- ;- e5 ;-- d5+ ;-

c5 ;-- d5 ;-- f5 ;-- d5 ;-- f5++ ; g5+ ;- e5+ ;-- ;- d5 ;-- c5++ ; c5+ ;- g5++ ; f5++ ;++
```