

Module 4 DJ Training



HEART OF THE DANCE

Homework...

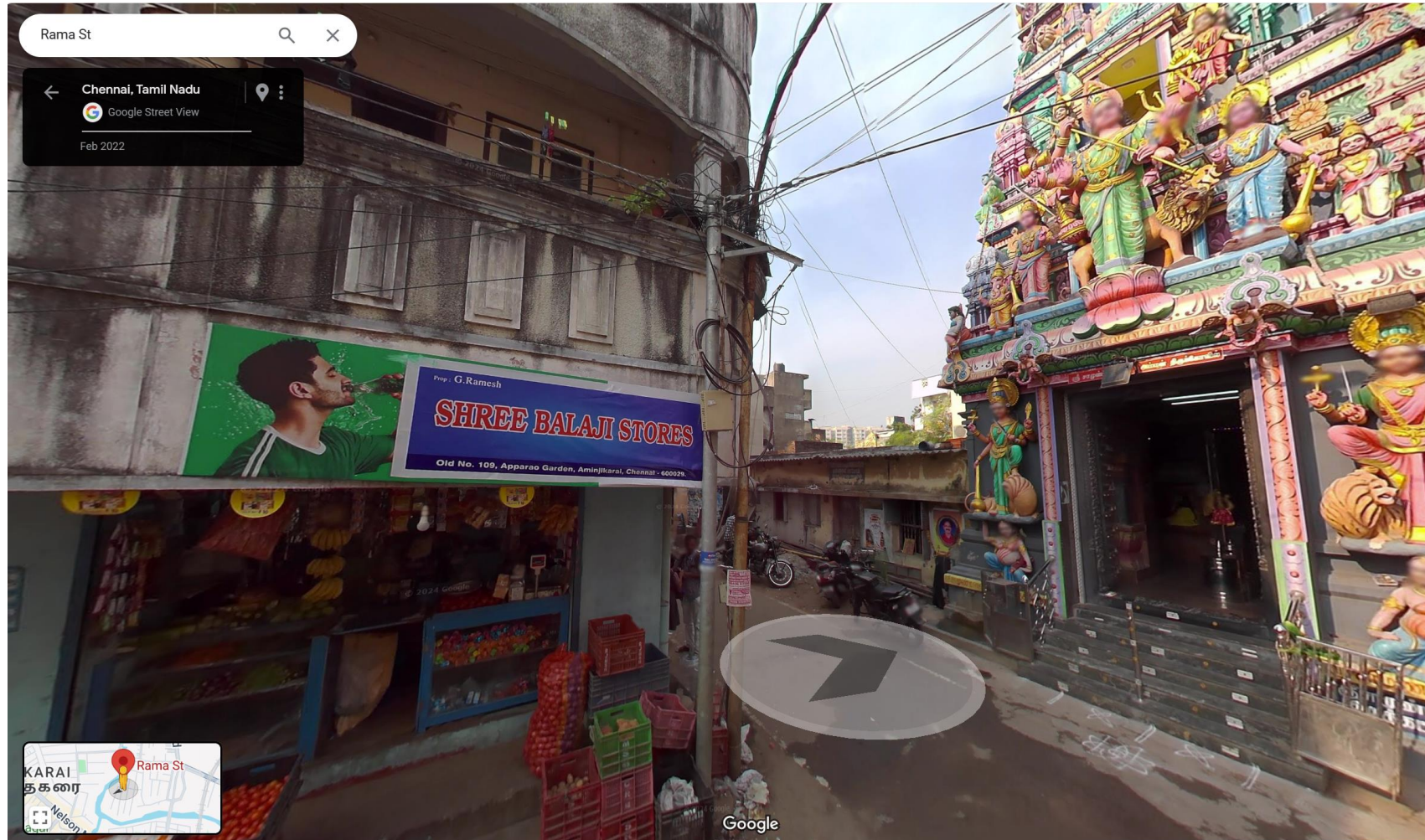
Module 4 - What do these buttons do?

Volume, phrase & sync mixing

Find two songs that you like and mix them while making use of volume, phrases and sync. In case you don't have a software program yet, then mix them using volume only...



Let's boogie on Rama street..



Which sounds work well together ?

- Last week – Beat matching (syncing), song structure
- Now – type of sound & key

The playground
On this page, you can experiment with the different music making tools you've used so far. They'll all play together in sync.


Beats
Tempo: 127 bpm
Eksa
Tom
Open Hat

Basslines
Reset
Tempo: 127 bpm
C Dk D Dk
Majay/tertan Minor/Asulan

Chords
Reset
Tempo: 127 bpm
c dk
Majay/tertan

Melodies
Reset
Tempo: 127 bpm
c dk d dk c r r
Majay/tertan Minor/Asulan Dorian Phrygian

Vocal **Melody** **Bass** **Drums**



Which sounds work well together ?



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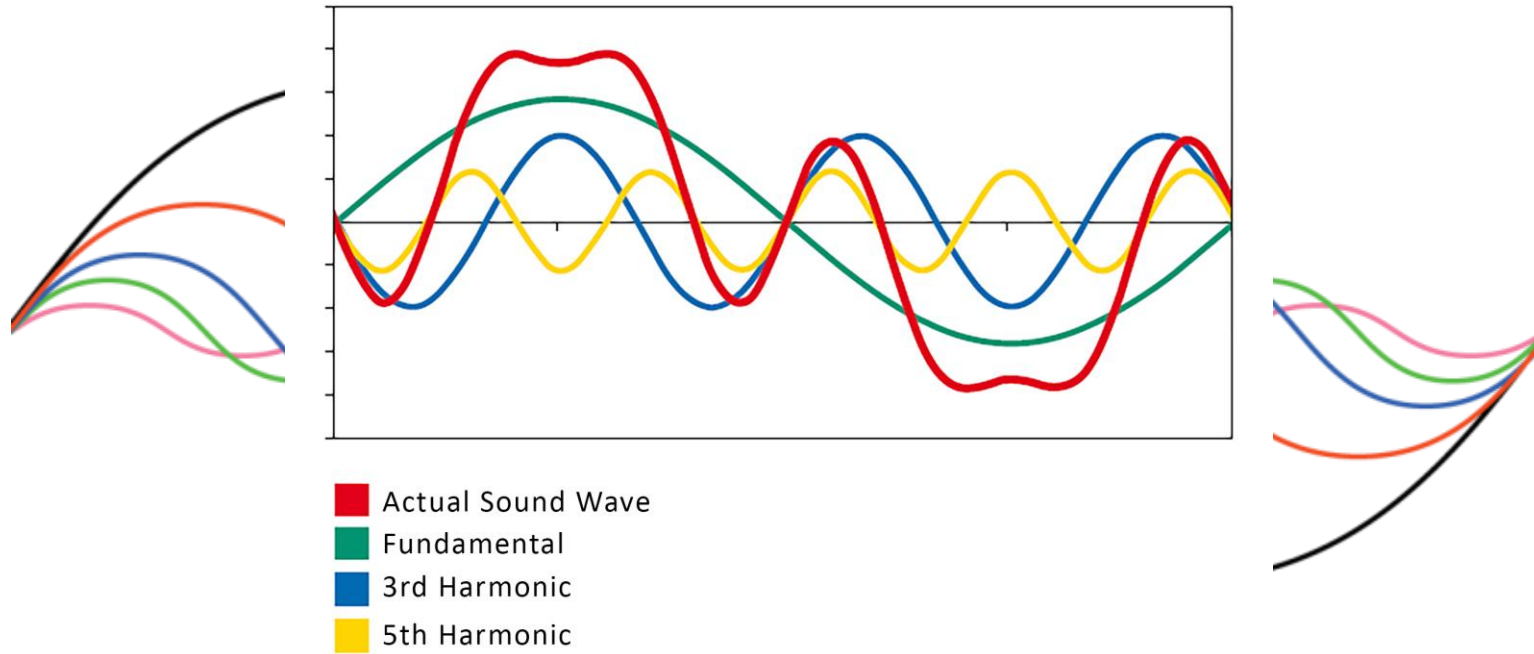


Which sounds work well together ?



Keystone of Music

Harmonic Overtone Series String Vibration Patterns



Excerpted from "Where Does Sound Come From?: Volume 1"
by M. Schottenbauer, Ph.D. (2014), p. 145.

Let's listen to some key changes

Do music keys
have different feelings?

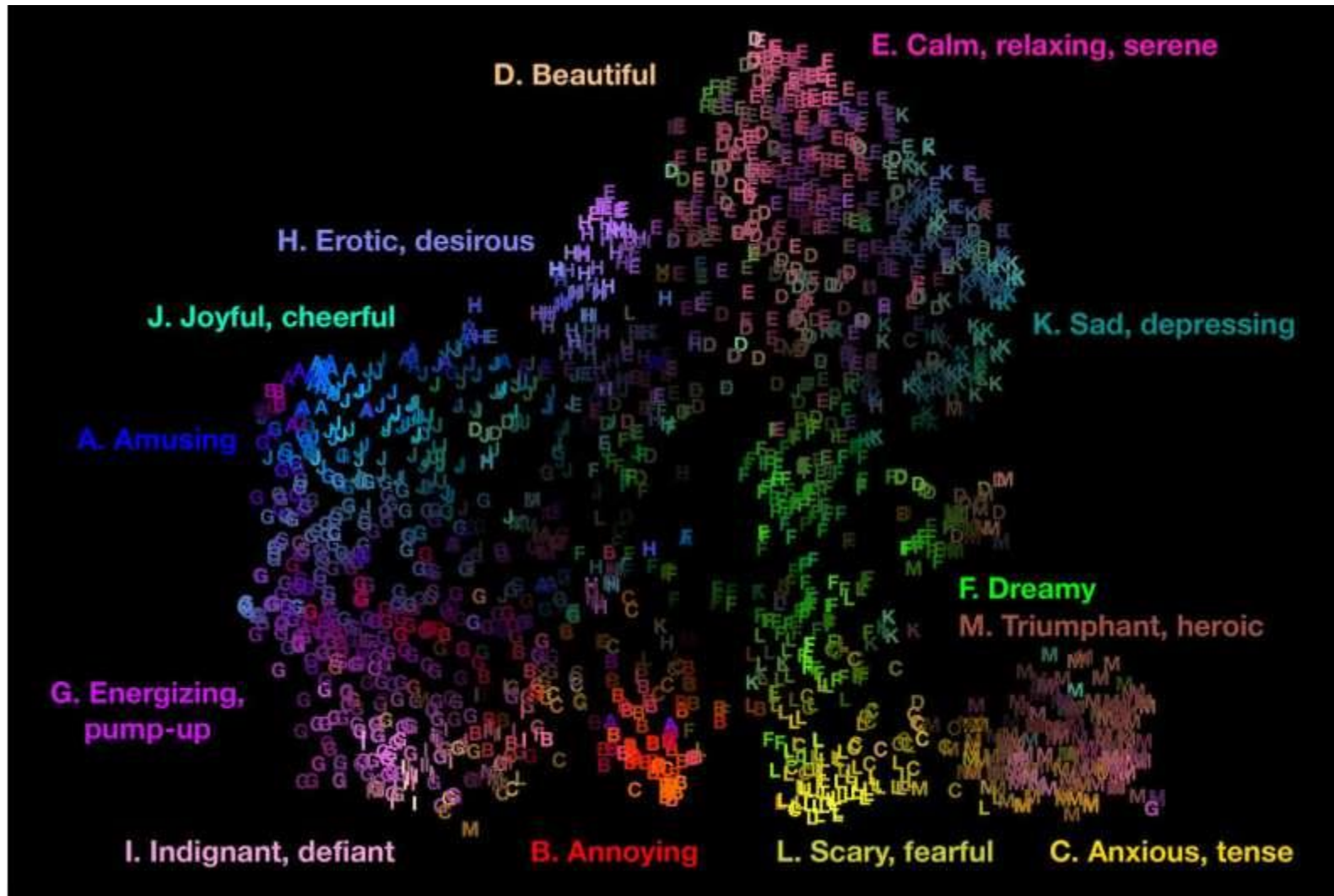
pianote

KEY: FEELING?

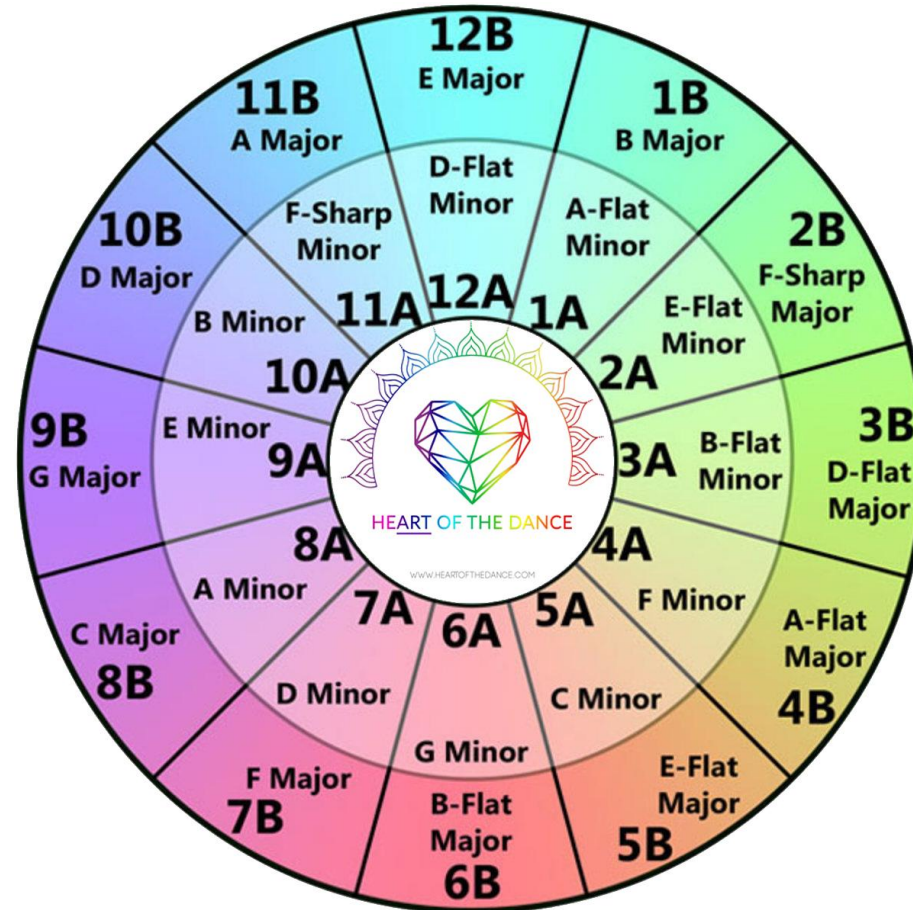
| KEY | DESCRIPTIVE COMMENTS |
|----------|--------------------------------|
| C major | Gay and very warlike |
| C minor | Obscure and sad |
| D major | Cruel and hard, quarrelsome |
| D minor | Serious and pious |
| E♭ major | Cruel and hard |
| E♭ minor | Effeminate; amorous, plaintive |
| F major | Furious and quick-tempered |
| F minor | Obscure and plaintive |
| G major | Serious and magnificent |
| G minor | Serious and magnificent |
| A major | Joyful and pastoral |
| A minor | Tender and plaintive |
| B major | Harsh and plaintive |
| B minor | Solitary and melancholic |
| B♭ major | Magnificent and joyful |
| B♭ minor | Obscure and terrible |

Key descriptions taken from Charpentier's 'Regles de Composition'; circa 1682

Let's listen to some key changes



Mixing in Key





1 2

Musical notation icons for Deck 1 and Deck 2.

SYNC 0.0% + + + +

VOCALS FILTER FILTER VOCALS

HARM. HARM.

DRUMS DRUMS

SYNC 0.0% + + + +

Play buttons, Set, and navigation controls (left, 4, right).

DRUMS BASS HARMONIC VOCALS NEURALMIX DRUMS BASS HARMONIC VOCALS

Music Search My Collection

Playlists +

Music No Songs

Music 271 Songs

| Title | Artist | Album | Genre | Time | BPM | Key | Rating | Year | Comments | Kind |
|------------------------|--------------|-------------------------|-------------|-------|-----|-----|--------|------|----------|-------------|
| Take My Leave of You | Arnor Dan | | Other | 02:43 | 120 | 6A | | | | MP3-bestand |
| Blooming in the Valley | Omid Shabani | Blooming in the Vall... | Alternative | 03:28 | 80 | 7A | | | | MP3-bestand |

THAT MOMENT



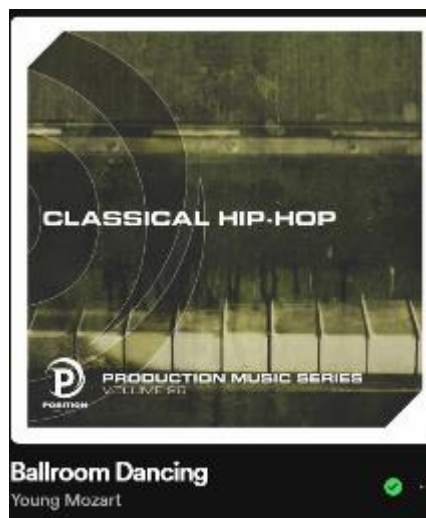
BEFORE THE BEAT DROPS

Make a Mem

The **B**eat (or pulse or BPM)



The **B**eat (or pulse or BPM)



The Beat & Rhythm



- A beat = a single unit of time
- **Rhythm** uses alternating patterns of accented beats and unaccented beats.
- Accented beats = the pulse that you tap along, and Unaccented beats are the other beats around it

Counting Music

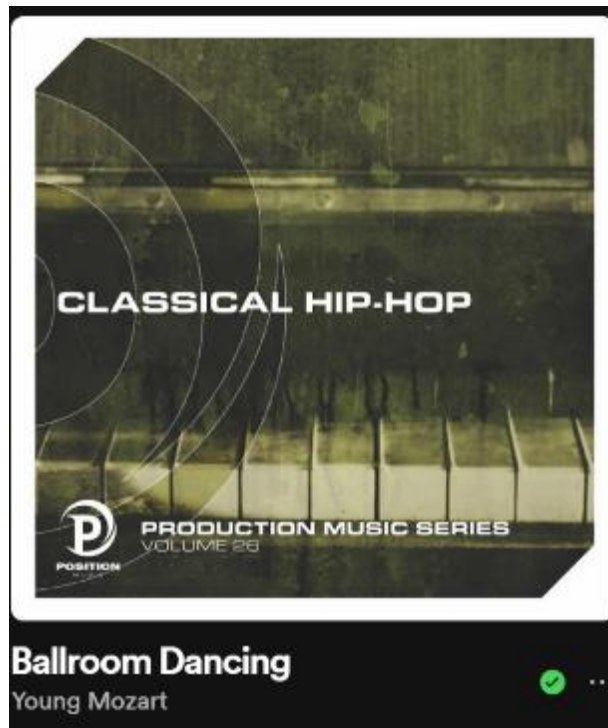
1 2 3 4 2 2 3 4 3 2 3 4 4 2 3 4

5 2 3 4 6 2 3 4 7 2 3 4 8 2 3 4

1 e & a 2 e & a 3 e & a 4 e & a

5 2 3 4 6 2 3 4 7 2 3 4 8 2 3 4

Let's listen closer...



Reset Export to Live

Tempo: 85 bpm

| | | | | | | | | | | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|--|--|--|
| Open Hat | | | | | | | | | | | | | | | | | | | |
| Closed Hat | | | | | | | | | | | | | | | | | | | |
| Snare | | | | | | | | | | | | | | | | | | | |
| Kick | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | | |

The image shows a digital audio workstation (DAW) interface for a drum pattern. It features a 'Reset' button and an 'Export to Live' button. A tempo control is set to 85 bpm. Below the tempo control is a 16-step drum pattern grid with four rows: 'Open Hat', 'Closed Hat', 'Snare', and 'Kick'. The grid is currently empty, with no notes or triggers visible.

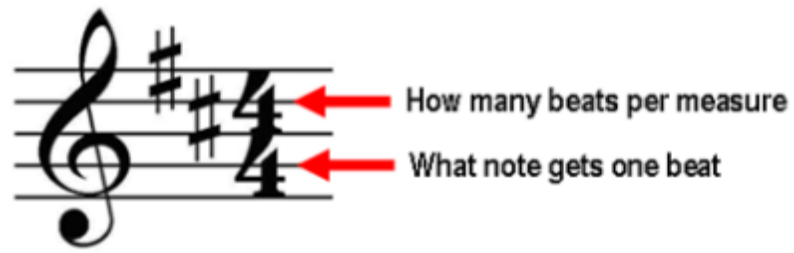
Time Signatures



1 2 3



1 2 3 4 5 1 2 3 4 5





Basic rock beat

▶ Reset Clear Export to Live

Tempo: 97 bpm

| | | | | | | | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|
| Open Hat | | | | | | | | | | | | | | | | |
| Closed Hat | | | ■ | | | | ■ | | | | | | | | ■ | |
| Snare | | | | | ■ | | | | | | | | ■ | | | |
| Kick | ■ | | | | | | | | ■ | | | ■ | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

Classic house

▶ Reset Clear Export to Live

Tempo: 97 bpm

| | | | | | | | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|
| Open Hat | | | | | | | | | | | | | | | | |
| Closed Hat | | | ■ | | | | ■ | | | | | | | | ■ | |
| Clap | | | | | ■ | | | | | | | | ■ | | | |
| Kick | ■ | | | | | | | | ■ | | | ■ | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

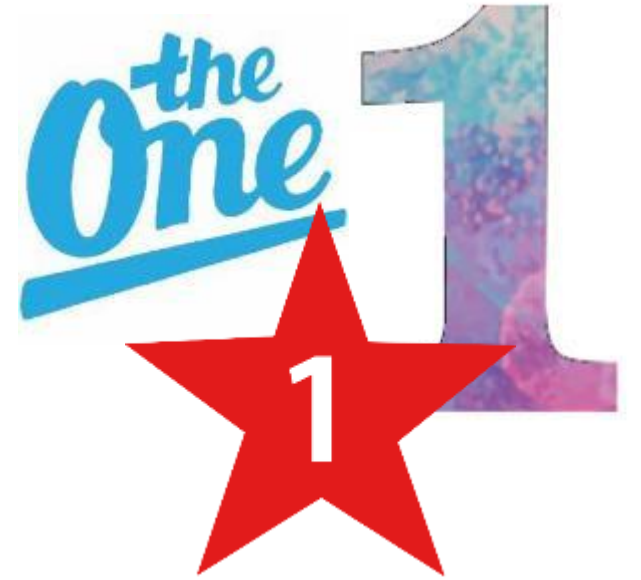
Let's listen closer...



Using beats - bars - phrases

- DJ software:
 - Music Library, Tool for Djing, and... for **music analysis**
- Beat is mapped to a **beatgrid**
 - 4/4 time is common, but there are also other time signatures
 - (Beat grid has trouble mapping uncommon time signatures)
 - Quantize snaps it to the beat grid
- Wave form hints the song structure
 - Amount of bars in phrase depends on genre.
 - Vocal based music (like pop, rock, and hip hop) < EDM
- Beatjump: helps you count the bars in a phrase
- Cue points or hot cues to mark the phrases
- Mix using phrasing..

Using the One

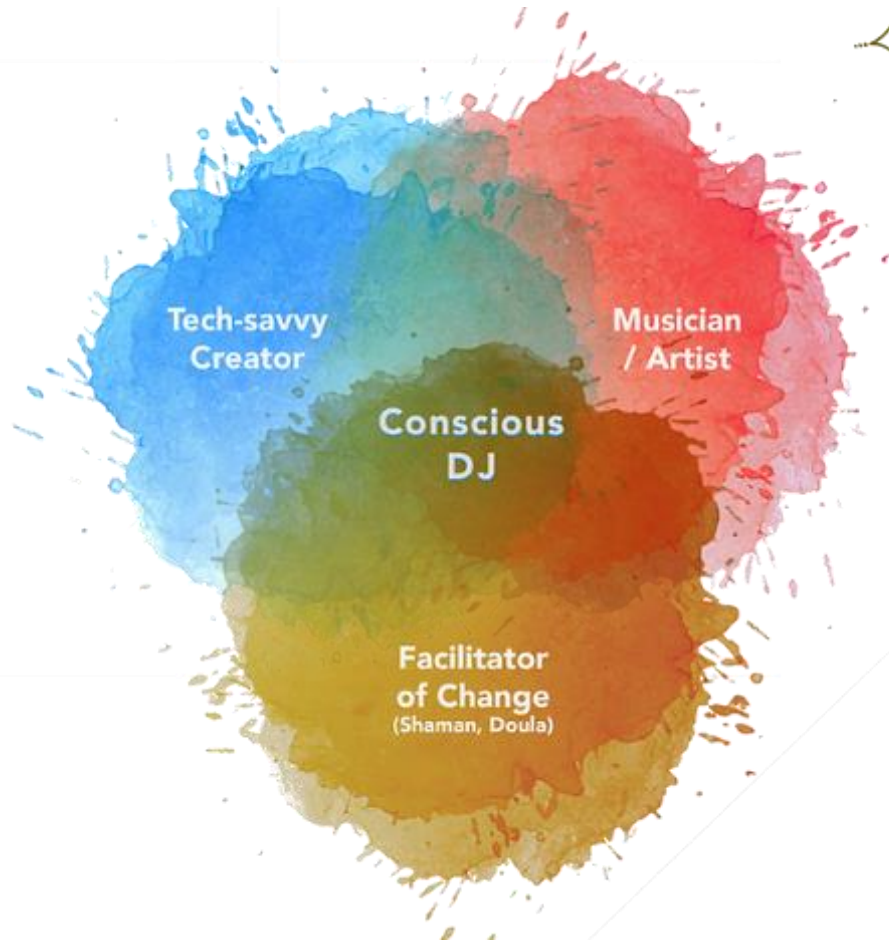


Time your changes on the one:

- Changing volume, tempo, key
- Applying FX, Filter

Use the one at the beginning of a phrase:

- To beat jump
- To Mix
- To play with cue points



Volume, phrase & sync mixing

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