

Dilla Time: Copyright and Distributive Justice for Beatmakers

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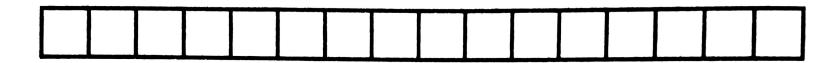
Overview

- *Dilla Time*: new fundamental time feel (compare straight, swing, etc.)
- Copyright's (old) paradigm: classical and sheet music, discrete 12 tone, evenly subdivided time, analytic science
- The need for a new paradigm: rhythm, timbre, instruments, and DAWs; music as *continuous* not *discrete* pitch/time
- Overdue protection for J. Dilla's epochal music innovation

A New Fundamental Time Feel

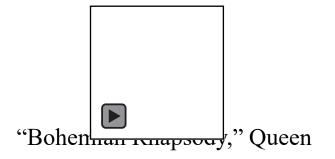
Straight time:

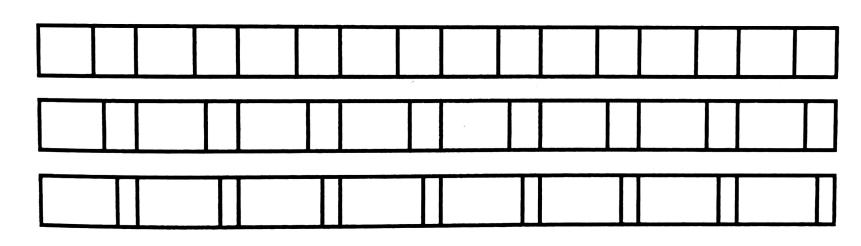
European classical music



Swing time:

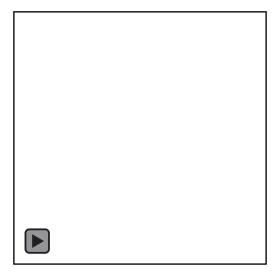
blues, jazz, swing, gospel, much of rock





A New Fundamental Time Feel

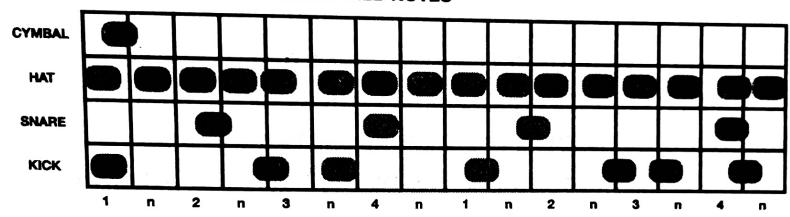
Machine time: drum machines (e.g. 808), metronomes, and click tracks



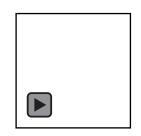
"Sucker M.C.'s (Krush-Groove 1)," Run-D.M.C.

A New Fundamental Time Feel

UNCORRECTED or UNQUANTIZED NOTES

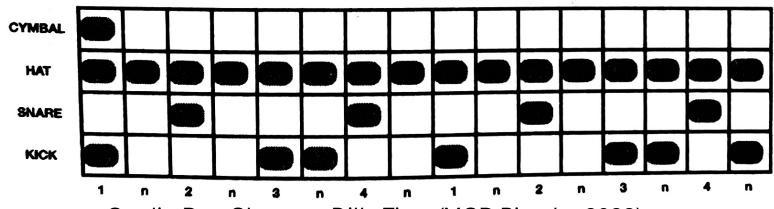


Sample time: unquantized vs. quantized beats

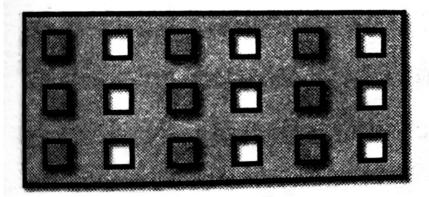


"I Know You Got Soul," Eric B. & Rakim

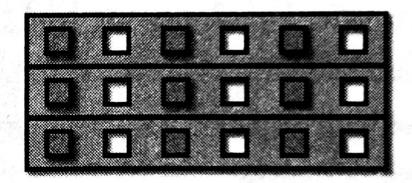
CORRECTED or QUANTIZED NOTES, adjusted to nearest grid point

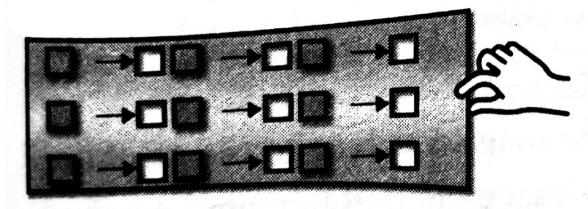


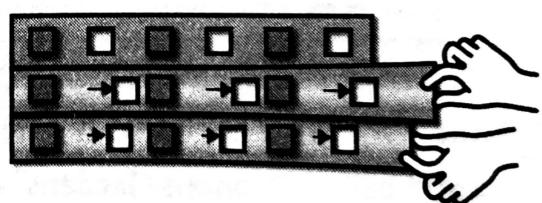
SP-1200 SWING
Tracks stretched together



MPC SWING
Tracks stretched separately

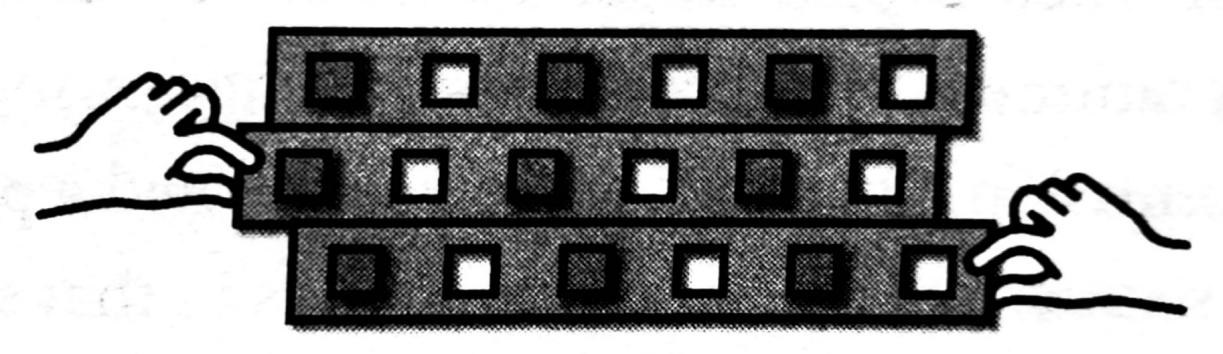




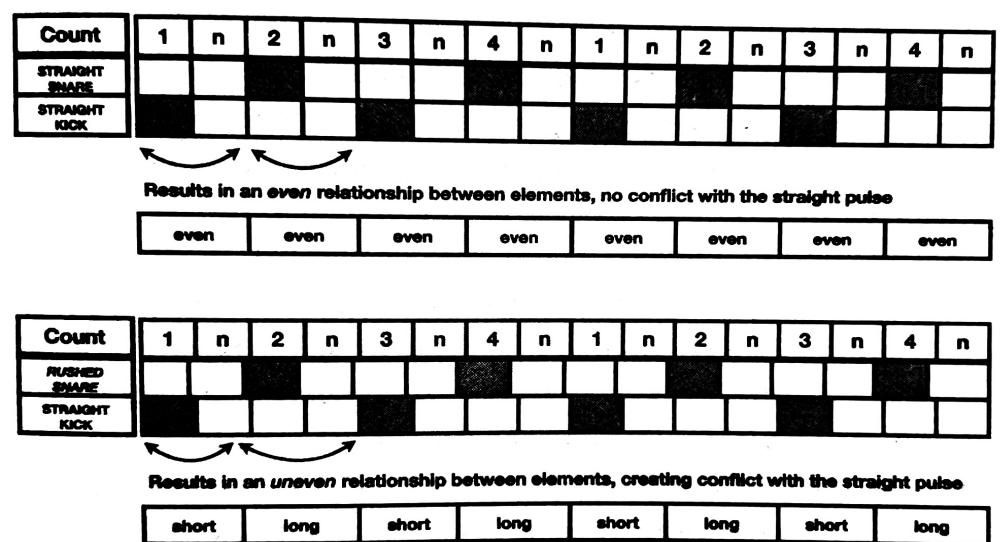




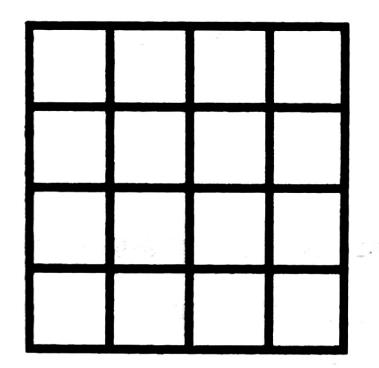
MPC SHIFT TIMING Events mover earlier/later

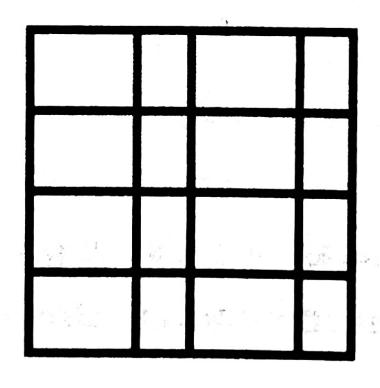


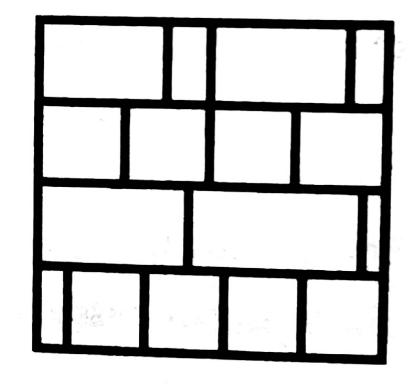




"Go Ladies," Slum Village







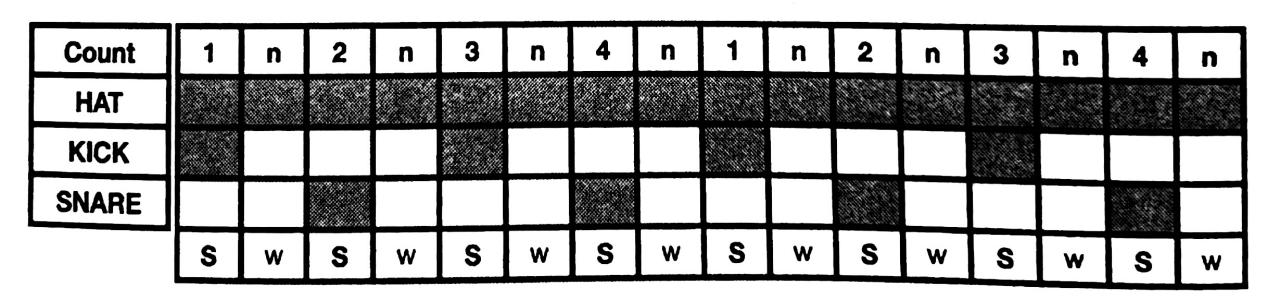
STRAIGHT TIME

SWING TIME

DILLA TIME

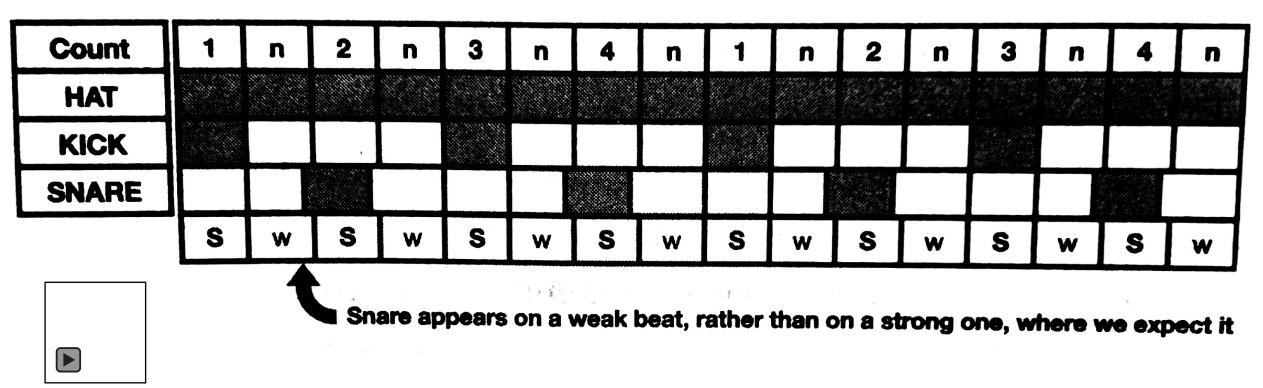






Conventional Hip-Hop





Credit: Dan Charnas, Dilla Time (MCD Picador 2022)

"Thelonious," Slum Village

Copyright's (Old) Paradigm

- European classical music
- Piano sheet music
- Discrete 12 tone system
- Discrete evenly subdivided time units
- Analytical scientific approach

The Need for a New Paradigm

- Example: the *least* innovative thing about music's transformation in the '60s-'70s was melody; innovation was in rhythm, groove, timbre, instruments, and recording
- African and Latin originating musical innovation transformed 20th c. music based on *continuous* and *aural* approach to pitch and time
- Conventional copyright experts have sought to exclude these non-white innovations
- For this presentation, *beats* need to be understood as entire song beds *that inspire* and define hit songs for their composer/producers
- Distributive justice supports transformation of copyright to accommodate the commercially and critically valuable innovation of modern musicians



A New Copyright Paradigm

- Holistic approach to music as aural experience (not visual proxy)
- Continuous pitch spectrum
- Continuous time spectrum
- Documentation includes phonorecordings, DAW tracks (including visual elements), and digital recognition tools (Shazam, GenAI bias patterns, "fingerprints", etc.)

Overdue Protection for J. Dilla's Epochal Music Innovation

- Style based protection centered on copyright, TM, or sui generis
- *Not* protection for general approach of continuous microshifts of rhythm elements against each other (though this was Dilla's innovation at an abstract level—but too abstract for protection)
- Protection for the "trademark" particular rhythmic offsets Dilla employed

