

# Good things come in threes: triplet flow in recent hip-hop music

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## Abstract

MCs (rappers) such as Cardi B, Kendrick Lamar, Drake, Big Sean and Young Thug use triplet rhythms in their rapping, a practice that is known as triplet flow. This paper argues that the prevalence of triplet flow is one of the most aurally salient features of contemporary hip hop, and exemplifies the popularity and influence of the Atlanta-centred genre of trap music through its sparse, slow beats. Three types of triplet flow are defined – mixed, phrasal and total – and are used to explore how various songs and artists active in the late 1980s and early 1990s provided the stylistic blueprint for triplet flow's recent explosion in popularity. With the aid of a 50 song mini-corpus, the paper concludes with a general survey of stylistic characteristics common in many songs featuring triplet flow, and further analysis of two of these songs in order to illuminate the creative, rhetorical and virtuosic potential that underpins this ostensibly simple style of rapping.

## Introduction

In 2016, Sony Pictures produced *The Get Down*, a Netflix-released musical drama series chronicling the emergence of hip-hop culture in late 1970s South Bronx, New York. Early on in the series, the teenage protagonists form a (fictitious) hip-hop group called the Get Down Brothers.<sup>1</sup> In various episodes, the Get Down Brothers give live performances; most viewers familiar with early hip-hop music would agree that the music used in *The Get Down* is stylistically consistent with the actual hip-hop music produced in the Bronx at that time. However, during the sixth episode of the series, while engaging in a rap battle with a rival group, the Get Down Brothers collectively break into a rap sequence built on triplet rhythms, transcribed in [Example 1](#). In presenting this scene, the show departs from the musical-stylistic norms of the period it portrays. Rapping in triplets – what I henceforth call *triplet flow* – was virtually unheard of at this time; the earliest recorded examples appear nearly a decade later.<sup>2</sup> Furthermore, triplet flow's origins exhibit closer ties to

<sup>1</sup> While some hip-hop artists that appear as characters in the show are drawn from real life (such as Grandmaster Flash and DJ Kool Herc), others are fictitious (such as Shaolin Fantastic and the Get Down Brothers).

<sup>2</sup> Adam Krims (2000, p. 15) describes *flow* as 'an MCs rhythmic delivery' of lyrics, while Kyle Adams (2009) expands this definition to include a consideration of accent, phrasing, articulation and other musical elements. *Triplet flow* appears to be the preferred term for the practice of rapping in triplets,

0:04  
♩ = 108

Shao-lin's the D - J that we call con-duc-tor 'cause Shao-lin Fan-tas-tic's a bad mo-ther (fuck-er!)

Example 1. 'Get Down Brothers vs. Notorious 3' (*The Get Down Soundtrack*, 2016). This excerpt comes from the final episode of series one, which is set in 1977. The time stamp references the song as it appears on *The Get Down* soundtrack.

hip-hop music from other American regions, such as the South and Midwest – but not New York.<sup>3</sup> I do not wish to admonish *The Get Down* for its apparent anachronisms, but rather to ask the question: what motivated the shows' creators to include a relatively modern rapping technique in this scene?

For those familiar with commercial hip-hop music since approximately 2012, the answer to this question might seem obvious. By featuring triplet flow in its music, *The Get Down* bears witness to this flow style's popularity in recent hip-hop music. Such popularity can perhaps be best seen through the critical and commercial success of Cardi B's debut album, *Invasion of Privacy* (2018), on which the lead single (among others) 'Bodak Yellow' features passages of triplet flow (see Example 2).<sup>4</sup>

This popularity inspires the present study, wherein I consider the practice of triplet flow in several ways. First, based on the examples discussed in this paper, I formalise a definition of triplet flow, enumerating several types, and situate these in relation to the taxonomy of flow proposed by hip-hop scholar Adam Krims (2000). Second, I survey some early examples of triplet flow by artists such as Public Enemy, Freestyle Fellowship, Bone Thugs-n-Harmony and Three 6 Mafia, with the aim of showing how some stylistic traits of these early examples have permeated the types of triplet flow that are currently widely used. I posit that a general downward trend of song tempos in recent years provides the most significant stylistic condition that enables triplet flow's current prevalence. Third, I present and analyse a corpus of 50 songs released since 2012 that feature triplet flow, identifying some general stylistic traits common to these songs. I illustrate these traits by discussing songs by G-Eazy, Kendrick Lamar, Young Thug, Run the Jewels, and Big Sean. I also briefly survey several songs that mix triplet flow with duple rhythms, examining the phenomenological effects this mixture produces, particularly with regard to the pacing of motional energy (a term I borrow from Matthew Butterfield's work on

as used in Caswell (2017). Most of the earliest commercially recorded hip-hop flow involved duple- and quadruple-based vocal rhythms, and not triplets. Rapped triplets do briefly appear in some later releases, such as 'Roxanne Roxanne' (UTFO, 1984), and 'Roxanne's Revenge' (Roxanne Shanté, 1984), but they generally appear to be uncommon during the 1980s.

<sup>3</sup> Cleveland-based Bone Thugs-n-Harmony and Memphis-based Three 6 Mafia both used triplet flow extensively through the 1990s. For examples, see *E. 1999 Eternal* (Bone Thugs-n-Harmony, 1995c) and *Mystic Stylez* (Three 6 Mafia, 1995).

<sup>4</sup> Throughout this paper I refer to MCs (rappers) by their stage names, and not their given names. Singles from *Invasion of Privacy* as well as the album itself were nominated for a total of five Grammy awards, and the album broke numerous streaming and sales records (see Caulfield, 2018).

Verse 1 (1:16)

I might just chill in some BAPE I might just chill with your boo I might just feel on your

Example 2. 'Bodak Yellow' (Cardi B., 2018).

rhythm).<sup>5</sup> Finally, I analyse two songs in greater detail: 'Dark Sky (Skyscrapers)' by Big Sean (2015a) and 'Panda' by Desiigner (2016) feature lengthy passages of triplet flow and afford the opportunity for a discussion of how it facilitates creativity, rhetoric and diversity in an MC's flow. Through this work I contend that triplet flow represents one of the most salient rhythmic features in current hip-hop music and as such, confirms the continued influence of artists from the American South and Midwest on the hip-hop genre at large. In addition, I show that, despite the ostensible regularity and simplicity of its rhythmic surface, triplet flow offers MCs a wide range of metric and rhythmic tools to enhance the expression and meaning of lyrics and imbue their performances with markers of virtuosity and creativity. Exploring markers of virtuosity and creativity in triplet flow examples helps illustrate how a decidedly simple rhythmic unit and its inherent metrical properties can be manipulated, multiplied and negated in the service of rhetoric and expressivity.<sup>6</sup>

## Overview, definitions, and types

I define triplet flow, which can occur in a variety of musical contexts, as any rapped delivery of lyrics where the unit pulse, or tactus, is triple-divided. Most often, these triple divisions occur atop beats that are duple- or quadruple-divided; indeed, the juxtaposition between a triple-divided flow and a duple-divided beat enables the rhythmic interplay essential to triplet flow's character.<sup>7</sup> Depending on a song's tempo, the triple division could assume the form of quarter-note, eighth-note or sixteenth-note triplets.<sup>8</sup> Two songs taken from Kendrick Lamar's 2012 album *Good Kid, M.A.A.D. City* exemplify some possible contexts for triplet flow. [Examples 3a](#)

<sup>5</sup> See Butterfield (2006, 2011). Butterfield (2011, p. 4) describes motional energy as 'the force of momentum with which some musical events are directed toward others'.

<sup>6</sup> Many of these observations stem from similar ones made by Adams (2008) and Krims (2000), who both observed that flow and lyrical techniques have become increasingly sophisticated over time. Krims writes that 'since roughly the beginning of the 1990s, [the rhythmic styles of many commercially successful MCs] have progressively become faster and, as it is often put, more "complex"' (Krims 2000, p. 49). Adams writes that 'the mid-1980s saw a move away from the original topics of rap lyrics ... and a move towards lyrics of increasing complexity, abstraction, and metaphor' (Adams 2008, [3]).

<sup>7</sup> Though rare, hip-hop songs in compound metre do also exist, notable examples being 'My First Song' (Jay-Z, 2003) and 'Black Skinhead' (Kanye West, 2013). The rhythmic and metric concordance of the triple-divided tactus in both the beat and flow of songs such as these makes them outliers among other examples of triplet flow, where the juxtaposition of duple- and triple-divided tacti persists.

<sup>8</sup> The relationship between tempo, metre-as-heard, and notational representation in popular music has been addressed in detail by de Clercq (2016), who investigates the way listeners' perception of absolute time influences what metre they hear. Since hip-hop lacks a comprehensive notational tradition, I must explicitly account for my own biases when ascribing a metre to the excerpts I transcribe.

**Verse 1 (0:38)**  
♩ = 74

Flow  
dark room, loud tunes, look - in' to make a vow soon

Beat

Example 3a. 'Swimming Pools' (Kendrick Lamar, 2012). As detailed here, the duple flow rhythm tightly syncs to the drum pattern shown on the lower staff. Here and in all following examples with two (or more) staves, the upper staff represents the flow layers (rapped vocals), while the lower staves represent all or part of the beat layer (instrumental track), as relevant.

**Verse 2 (1:42)**

Flow  
think that I'm feel - in' the vibe, I see the love in her eyes, I see the feel - in' the

Beat

Example 3b. 'Swimming Pools' (Kendrick Lamar, 2012). Contrasting with Example 3a, here the subdivisions in the flow and beat layers do not always correspond metrically, creating a three-over-two polyrhythm between the triplet flow and the sixteenth-note drum beat, highlighted with brackets in the transcription.

**Verse 1 (1:09)**  
♩ = 67

Flow  
how can I paint this pic - ture when the co - lor blind is hang - in' with you?

Beat

fell on my face and a - woke with a scar an - oth - er mis - take liv - in' deep in my heart

Figure 3c. 'Bitch Don't Kill My Vibe' (Kendrick Lamar, 2012). This example details how Lamar switches from duple to triple rhythms within a verse.

and 3b show excerpts from the first and second verses of the song 'Swimming Pools', which demonstrate Lamar's shift to triplet flow.

As shown in the transcriptions, Lamar raps in duple and quadruple rhythms in the first verse (Example 3a), and triple rhythms in the second (Example 3b). In the song 'Bitch Don't Kill my Vibe' (2012), Lamar switches into triplet flow *within* each of the first and second verses (an excerpt of the first verse is shown in Example 3c).

Verse 3 (3:02)  
♩ = 104

Chuck D: El - vis was a he - ro to most but he ne - ver meant shit to me — you see straight up

ra - rist that suck - er was sim - ple and plain

Flava Flav:  
"Mother fuck him and John Wayne"! 'cause I'm black and I'm

Example 4. 'Fight The Power' (Public Enemy, 1989). Chuck D's performance of this passage, while energetic, adopts a more relaxed feel than he uses in the two other verses of this song. The transcription here, even more so than other examples in this paper, represents an approximation of Chuck D's vocal rhythms, as his flow often includes microtiming variations and slight lags from the rigid triplets implied by the notation above.

These examples illustrate the two main contexts where triplet flow tends to occur: in individual phrases as part of a larger formal unit, or across entire formal units such as a verse. (By rarer contrast, triplet flow can also occur in smaller, sub-phrase units, as well as across entire songs.)

We can codify triplet flow according to the extent of its presence in a song. Table 1 provides this codification with explanations and song examples. The first category, *mixed triplet flow*, refers to occurrences where the triplet flow and a duple-divided flow are mixed at the sub-phrase level.<sup>9</sup> For purposes of this study, I define a phrase as a line of lyrics demarcated by either a rhythmic caesura, syntactic closure, a rhyme, or a concurrence of these. Mixed triplet flow features a variable balance of each flow type: some examples use comparatively little triplet flow and are mostly duple, and others the inverse. To my knowledge, most songs with triplet flow released before the early 2000s use mixed triplet flow, such as can be heard in 'Passin' Me By' (The Pharcyde, 1992), 'Nuthin' but a "G" Thang' (Dr. Dre, 1992), and 'No Surrender' (Bone Thugs-n-Harmony, 1994a). The second category, *phrasal triplet flow*, applies to examples where triplet flow appears for one or more phrases, but not for an entire larger formal unit such as a verse. In recent years this has perhaps become the most common type of triplet flow used in commercial hip-hop music.<sup>10</sup> Phrasal triplet flow can be used by MCs to change the pacing or accumulation of energy in a verse, or for narrative and rhetorical purposes. The final category, *total triplet flow*, refers to complete formal units (such as verses) – or rarer, entire songs – where the MC uses nothing but triplets in their flow. In these examples, the MC must find subtler ways to punctuate and flavour the constant stream of triplets they use, and specific examples of how this can be achieved will be discussed later.

<sup>9</sup> Determining what constitutes a phrase in hip-hop music is a subjective process undertaken by the listener. While the principal punctuations of a line of lyrics are rhymes, syntactic closure and rhythmic caesuras (moments where the flow of lyrics ceases), factors such as metric correspondence with the instrumental beat or song tempo may also play a role.

<sup>10</sup> See Table 2 for evidence of this. In the 50-song corpus used in this study, 38 songs used phrasal triplet flow at some point, compared with 21 using total triplet flow and four using mixed triplet flow.

Table 1. Overview of triplet flow types, characteristics, and examples

Category	Context of occurrence	Characteristics and functions	Representative examples
Mixed triplet flow	Occurs within phrases, but does not constitute entire phrases	Rhythmic base for a small collection of lyrics within a phrase; used to punctuate duple-divided phrases, either to provide emphasis, accentuation, anacruses, or increased syllabic density	<ul style="list-style-type: none"> <li>• ‘Nuthin’ But a “G” Thang’ (Dr. Dre, 1992)</li> <li>• ‘No Surrender’ (Bone Thugs-n-Harmony, 1994)</li> </ul>
Phrasal triplet flow	Occurs across one or several phrases, but does not constitute entire formal units such as verses	Rhythmic base for a phrase, or line, of lyrics; used to alter the pacing or motional energy within a formal unit, or to provide a varied rhythmic template for rhetoric	<ul style="list-style-type: none"> <li>• ‘Fight the Power’ (Public Enemy, 1989)</li> <li>• ‘Swimming Pools’ (Kendrick Lamar, 2012)</li> <li>• ‘Bodak Yellow’ (Cardi B., 2018)</li> </ul>
Total triplet flow	Occurs across one or several complete formal units (common) or entire songs (rare)	Rhythmic base for a formal unit; used as a template for varied approaches to accentuation, rhyme, and syncopation	<ul style="list-style-type: none"> <li>• ‘Dark Sky’ (Skyscrapers)’ (Big Sean, 2015)</li> <li>• ‘Panda’ (Desiigner, 2015)</li> </ul>

Normally, triplets in the *flow layer* (the textural layer referring to the rapped vocals) occur simultaneously atop duple-divided rhythms in the *beat layer* (the song’s underlying sampled or instrumental accompaniment). While these simultaneous different divisions of the tactus might not create an audible rhythmic grouping dissonance to every ear, the intricacies of the compound rhythms they create are nevertheless quite audible.<sup>11</sup> Such a compound rhythm occurs in the second verse of ‘Swimming Pools’ (Example 3b). The sixteenth-note hi-hat pattern sounds against Lamar’s sixteenth-note triplets, adding a layer of rhythmic complexity that was hitherto absent. The timbre and panning of the hi-hat and vocals make them sound very near to one another, amplifying the effect of complexity. As will be discussed below, many recent examples of triplet flow occur in songs that use trap beats (defined below in greater detail), where the hi-hat plays a less prominent role in regulating the sub-tactus pulse than it does in many other popular drumming styles. In comparison with the beats used in most hip hop before 2000, trap music (including trap beats used in hip-hop music) features slower tempos, sparser, darker musical textures and has become emblematic of Atlanta’s urban music scene over the past

<sup>11</sup> I borrow the term grouping dissonance from its use in Harald Krebs’s (1999) monograph *Fantasy Pieces: Metrical Dissonance in the Music of Robert Schumann*. While Krebs (2014) uses the term in the context of metric dissonance in the music of Schumann, Nicole Biamonte (2014) applies the concept to rock and pop music, expanding the idea to include rhythmic dissonances: those that do not disrupt the sense of metre in a song.

decade. In many songs that combine triplet flow with trap beats, the incessant regularity of the vocalised triplets means that they begin to assume the role as sub-tactus timekeeper (in place of the hi-hat) in the composite texture of the song.<sup>12</sup>

I have defined triplet flow according to the extent to which it occurs (relative to non-triplet flow) in song sections, but these definitions can be expanded upon by considering the flow's internal metric and accentual characteristics. To do so I situate triplet flow within an earlier taxonomy of flow developed by Krims. In his 2000 book *Rap Music and the Poetics of Identity*, Krims positioned flow in a system of three interconnected styles. He called the first of these 'sung style', describing it as featuring repeated rhythmic groupings, on-beat accents and rather strict rhyming schemes (usually couplet-based). The second style, 'speech-effusive style', incorporates irregular, complex rhythms and longer strings of rhymes on the same syllable. According to Krims, this style 'feature[s] enunciation and delivery closer to spoken language, with little sense often projected of any underlying metric pulse' (p. 51). Finally, 'percussion-effusive style' uses 'off-beat attacks and a sharply-attacked and crisp [vocal] delivery that accentuates the counter-metric gestures' (p. 52), and can incorporate caesuras, utilise regular rhythmic patterns, but does not necessarily need to be fast-paced. Krims stressed that these three flow styles can, and often do, combine and overlap in hip-hop music.

Emblematic of this overlap, performances of triplet flow can characterise multiple Krimsian flow types simultaneously, mainly exemplifying aspects of sung and percussion-effusive styles. Since triplet flow often uses tightly synced, repeating rhythmic patterns, it generally runs counter to natural rhythms of English speech – which normally alternates long and short durations according to lexical and prosodic stress patterns – thus sounding more like a 'sung-style' flow than a 'speech-effusive' flow. In other cases, triplet flow might highlight counter-metric gestures emblematic of percussion-effusive style but in combination with a legato, smooth vocal delivery, a trait not associated with percussion-effusive style. The songs discussed in this paper (and no doubt many others) typically utilise stylistic features associated with more than one of Krims's three flow types. This alone is not novel, for so do nearly all other hip-hop songs, including those featuring duple-divided flow styles. However, triplet flow is perhaps unique in that on the rhythmic surface, its hyper-regular rhythmic groupings (often no more than streams of equally spaced triplets) bear perhaps the closest resemblance to sung style, which Krims (p. 50) associates with old-school hip-hop music. Yet as I will show, beneath this simplistic rhythmic surface lies an organisational complexity not normally associated with sung style, nor with old-school flow styles.

## Beginnings and development of triplet flow

In December 2015, Brooklyn rapper Desiigner (Sidney Royel Selby III) released his debut single 'Panda'. Entering the *Billboard Hot 100* chart the following March, by May 'Panda' had reached number one, going four times platinum in the United States by the year's end.<sup>13</sup> While the song was given a boost when Kanye West

<sup>12</sup> Several analytical studies have focused on the metric and musical relationships between flow and beat, notably Adams (2008), Ohriner (2016), and Duinker (2017).

<sup>13</sup> According to Billboard Music (2018), 'Panda' spent 54 weeks on the Top 100 chart. The song eventually reached five times platinum in mid-2017, according to the Recording Industry of America (2018).

sampled it on his 2016 album *The Life of Pablo*, 'Panda's' chart performance still warrants mention given Desiigner's young age (18 years when it was released) and the fact that, other than several releases by Atlanta rapper T.I., trap-influenced rap songs relatively rarely appeared at the top of the *Billboard Top 100* before 2016.<sup>14</sup> This chart performance also marks the first time a rap song featuring triplet flow reached number one on a non-hip-hop-specific chart.<sup>15</sup> The commercial success of Desiigner and other 'trap rappers' (such as Migos, Future and Young Thug) has prompted several online media outlets to publish brief surveys of triplet flow in mainstream hip-hop music.<sup>16</sup> While the most extensive of these surveys (Schmidt et al., 2016) discusses the interregional borrowing in North American hip-hop that facilitated triplet flow's development over time, none of these publications investigate which musical characteristics of earlier triplet practitioners have resurfaced in modern triplet flow. I address this lacuna in the following section by briefly analysing some of the earliest well-known examples of triplet flow in order to unpack the musical blueprints of this style of rapping. I then elaborate on how slower song tempos and the advent of trap music have been instrumental in enabling triplet flow to reach its current popularity.

### *Early examples*

A handful of artists were experimenting with triplet flow in the late 1980s and early 1990s. Schmidt et al. (2016) cite Public Enemy's 'Bring the Noise' (*It Takes a Nation of Millions to Hold Us Back*, 1988) as the earliest well-known use of triplet flow.<sup>17</sup> Chuck D of Public Enemy also uses triplet flow in 'Fight the Power' (*Fear of a Black Planet*, 1990). Jaz-O and Jay-Z, also from New York, released 'The Originators' (*To Your Soul*, 1990), in which both MCs rap extensively in triplets. On the West Coast, early releases by Dr. Dre (*The Chronic*, 1992), the Pharcyde (*Bizarre Ride II the Pharcyde*, 1992), Snoop Dogg (*Doggystyle*, 1993), and Freestyle Fellowship (*Innecity Griots*, 1993) use triplets mainly to punctuate passages of duple-divided flow. In the Midwest, Bone Thugs-n-Harmony were experimenting with fast, rhythmically rigid, and sharply articulated triplet flow to popularise a new style of rapping known as chopper rap, a rigid, rhythmic, and fast-paced style of rapping.

Three songs released during hip-hop music's *Golden Age* (a period between approximately 1986 and 1993 in which the stylistic diversity and commercial supremacy of hip-hop music made dramatic gains) serve well to evaluate the diversity in early triplet flow practice. Crucially, these songs all have tempos close to 100 beats

<sup>14</sup> Although since 2016, they have become more prevalent on the Billboard charts. Molanphy (2016) explores how Kanye West's involvement helped 'Panda' reach number one, suggesting that this success might herald a new era of hitmaking, presumably where resampling a record can give it renewed and greater exposure. Both Molanphy and GQ's Music Column (2016) also situate Desiigner's musical style as descending from Atlanta rapper Future, known for his use of triplet flow and trap beats. (Triplet flow is, however, not mentioned in either writing.)

<sup>15</sup> By the time 'Panda' reached number one on the Hot 100 chart, it had already been number one on the Hot Rap Songs chart for some time, unseating G-Eazy and Bebe Rexha's 'Me Myself & I' (2015), another rap song featuring heavy use of triplet flow (Mendizabahl, 2016).

<sup>16</sup> See Drake (2014), Schmidt et al. (2016) and Caswell (2017).

<sup>17</sup> Earlier, shorter examples of triplet flow can be found in 'Planet Rock' (Afrika Bambaataa and the Soulsonic Force, 1982), 'Roxanne Roxanne' (UTFO, 1984) and 'Roxanne's Revenge' (Roxanne Shanté, 1984).

verse 1 (0:14)

♩=95

rea-dy to make an en-trance so back on up cause you know we're bout to rip shit up give me the mi-cro-phone first

Example 5. 'Nuthin' But a G Thang' (Dr. Dre, 1992), constituting an early example of mixed triplet flow.

per minute (bpm), markedly faster than most songs discussed later in the paper.<sup>18</sup> In 'Fight the Power' (1990), Public Enemy's Chuck D raps most of the third verse in a free-flowing mixed triplet flow, delivering groups of three syllables over each quarter-note pulse, as transcribed in Example 4.<sup>19</sup>

'Fight the Power' proceeds at a tempo of 104 bpm, one of the fastest of any song discussed in this paper. At this tempo, rapping in sixteenth-note triplets (such as Kendrick Lamar did in Examples 3b and c) would be uncharacteristic of Chuck D's speech-effusive flow style – and the lyrics would be near-incomprehensible. Tempo considerations aside, this verse can be viewed as a sharp contrast in flow style from the first two verses in 'Fight the Power'. While Chuck D's flow in the first verse sounds the most declamatory – with frequent caesuras and longer-held syllables – and his flow in the second sounds denser and more syncopated, the third verse, where triplet flow is used, sounds perhaps the most relaxed.

'Nuthin' But a "G" Thang', the lead single from Dr. Dre's 1992 album *The Chronic*, can be used to demonstrate the variety of triplet flows already used in the early 1990s. This song features triplet flow, but in a markedly different setting than in 'Fight the Power', despite being only slightly slower (95 bpm). Here, as Example 5 details, the triplets – sparse as they are – rapped by Snoop Dogg function more as agents of anacrusis or accent atop a duple-divided rhythmic base, perhaps as though triplets are used in place of sixteenth notes in order to 'fit in' more syllables.<sup>20</sup> This type of mixed triplet flow occasionally turns up in the rapping of other West

<sup>18</sup> I determine tempo according to the kick/snare backbeat pattern of the drums in the beat layer of each song. (See Biamonte 2014, [6.1] for an overview of the backbeat pattern's importance to metre and tempo in rock music in particular.) De Clercq (2016) defends the practice of determining measure length, and by extension song tempo, using absolute time as a determinant, citing perceptual studies that have shown a two-second timespan to be the ideal duration for experiential measures in listening subjects. While de Clercq's findings are compelling, two factors led me to part from them in my determinations of tempo and measure lengths here. First, his chosen repertoire is pop and rock music. In general, these styles contain much more variance in phrase length of vocal lines, harmonic rhythm of accompaniment and rhythmic variation of drum patterns than is found in hip-hop music. Second, the perceptual studies de Clercq cites mainly focus on tapping experiments. I posit that a more reliable indicator of tempo and measure perception would include a more embodied response to the audio stimuli, such as dancing. While I know of no studies that do this with respect to hip-hop music, I hypothesise that the results would show a more faithful correspondence to backbeat patterns as determinants of tempo, and by extension, measure.

<sup>19</sup> Robert Walser (1995) provides a close reading of rhythm and rhetoric in 'Fight the Power', including the tripletised third verse, but makes only brief mention of the triplets themselves. His reading of this song highlights the connection between vocal rhythm, lyrics and rhetoric in these three verses, and shows how a discussion of variegated rhythmic practices of rappers can support the narrativity and rhetoric of a song's lyrics.

<sup>20</sup> Snoop Dogg's use of triplet flow in this excerpt is what Gomez-Peck (2019) describes as incidental triplet flow; a 'crushed rhythm' of extra syllables to fit into a beat.

Verse 4 (2:09)  
♩ = 100

There's ne-ver an-oth-er to go with a bro-ther while smu-ther-in' suck-ers been goin' un-der-co-ver we'

Example 6. 'Flow Motion' (B.O.N.E. *Enterpri\$e*, 1993). Krayzie Bone's delivery of this passage is nearly unintelligible owing to the speed required to perform the lyrics at the tempo of 100 bpm.

Coast artists active in the early and mid 1990s, among them Freestyle Fellowship and the Pharcyde.<sup>21</sup>

In 1993, Cleveland-based B.O.N.E. *Enterpri\$e* released their debut album *Faces of Death*. That same year, Los Angeles-based MC and record executive Eric Wright – better known as Eazy-E – signed the group to his Ruthless Records label, changed the group's name to Bone Thugs-n-Harmony, and launched their career as a top-charting act. Bone Thugs-n-Harmony's success helped popularise the rigid, rhythmic and fast-paced style of rap known as chopper rap.<sup>22</sup> Chopper rap's connection to triplet flow can be heard on Bone Thugs-n-Harmony member Krayzie Bone's verse in 'Flow Motion' (1993), a short excerpt of which is transcribed in Example 6.<sup>23</sup> At 100 bpm, this song runs slightly slower than the two discussed above, but the substantial passage of sixteenth-note triplets performed by Krayzie Bone imbues this example of triplet flow with a different rhetorical function than 'Fight the Power' or 'Nuthin' But a "G" Thang': one of urgency, but also consequently one of braggadocio with regards to the skill required to rap in sixteenth-note triplets at this tempo.

To summarise these examples, three distinct profiles of triplet flow appear to have emerged already by 1993. In 'Fight the Power', Chuck D uses triplet flow to contrast his more declamatory and syncopated flow styles of earlier verses, resulting in a more relaxed, constant and balanced style of flow. In 'Nuthin' But a "G" Thang', the triplet flow gets used as a means to vary the rhythmic composition of the verse, and to highlight accents, syncopations and rhymes in the lyrics. In 'Flow Motion', triplet flow

<sup>21</sup> Examples of such rapping can be found in 'Nuthin' but a "G" Thang' (Dr. Dre 1992) and 'Passin' Me By' (The Pharcyde, 1992). Despite being an early incorporator of triplets into his personal flow, Snoop Dogg has been vocally critical of what he views as a homogeneous assortment of triplet flows in recent rap (see Cowell, 2015).

<sup>22</sup> Bone Thugs-n-Harmony's earliest forays into chopper rap and triplet flow were probably influenced by their exposure to the underground hip-hop scene in Los Angeles, mainly centred at the Good Life Cafe (now closed). In particular, there is speculation that Bone Thugs-n-Harmony co-opted and popularised the flow styles of, in particular, the L.A.-based Freestyle Fellowship. This topic is briefly discussed in Ava DuVernay's 2008 film *This is the Life*, which chronicles the significance and influence of Los Angeles's underground hip-hop community. Through an email conversation with hip-hop scholar Charles Sharp, I learned that among the Good Life community, the story of Bone Thugs-n-Harmony's co-opting of Freestyle Fellowship's style is widely believed and corroborated. Although extensive, interview-based fieldwork would generate more certainty in this regard, it lies beyond the scope of this paper. Whether or not Bone Thugs-n-Harmony did start using triplet flow after hearing it performed at the Good Life Cafe, the group's innovative use of it on their records throughout the 1990s did much to popularise it and expose it to a wider audience.

<sup>23</sup> This verse of 'Flow Motion' is the earliest example I can locate where such a long uninterrupted stream of phrasal triplet flow occurs. All contemporary and earlier examples are better described as displaying the mixed triplet flow type.

aggressively fits as many syllables as possible into a constant stream of triplets, where the flow style becomes less about lyrical intelligibility and more about displaying vocal dexterity. As such, the triplet flow of 'Flow Motion' aligns closest with Krims's percussion-effusive style, while Chuck D's flow perhaps aligns closest with speech-effusive style. The three approaches to triplet flow detailed here occur in songs of roughly equal tempo. As hip-hop song tempos got increasingly slower through the 1990s, these three profiles became less distinct, but triplet flow on the whole has continued to provide a rhythmic template for the associated characteristics of these profiles: relaxedness, balance, accent, anacrusis, syncopation and speed.

### *Hip-hop music slows down*

Through the early- and mid-1990s, hip-hop song tempos became increasingly slower.<sup>24</sup> In 'Fight the Power' and 'Flow Motion', at tempos around 100 bpm, Chuck D's eighth-note triplets sounded slow and relaxed, and Krayzie Bone's sixteenth-note triplets sounded so rushed as to border on incomprehensible. With tempos of 75 bpm or lower, sixteenth-note triplets, expectedly, become easier to vocalise, and lyrics become more intelligible to listeners. Whereas at 100 bpm, sixteenth-note triplet flow often sounds rushed and emotionally charged, at 75 bpm MCs have greater choice regarding whether to imbue their triplet flow with a more relaxed feel. Furthermore, with the possibility of more intelligible lyrics, the triplet flow becomes less about speed and vocal dexterity, and more about engaging with rhetoric and narrativity.

By the mid 1990s, triplet flow had been popularised by Bone Thugs-n-Harmony and the Memphis group Three 6 Mafia; these groups exert perhaps more stylistic influence on modern triplet flow than any other artist active before 2000. Bone Thugs-n-Harmony's breakthrough album *E. 1999 Eternal* (1995), released in the wake of their mentor Eazy-E's death, built on the success of their EP *Creepin' on ah Come Up* (1994). The leading singles from each (respectively), 'Tha Crossroads' and 'Thuggish Ruggish Bone' (1994b) cast triplet flow into the spotlight, especially after 'Tha Crossroads' won the Grammy Award for *Best Rap Performance* (1997) and topped the *Billboard Hot 100* chart. These hits, along with songs such as '1st of tha Month' (1995) and 'No Surrender' (1994) put on display Bone Thugs-n-Harmony's signature blend of chopper rap and triplets: rhythmically rigid, fast and on-beat triplet flow. Krayzie Bone's verse in 'No Surrender' (excerpted in [Example 7](#)) offers a representative example of triplet flow as Bone Thugs-n-Harmony rapped it in the mid-1990s: mixed with duple and double-time flow, triplets are an integral part of the rhythmic composition, but rapidly interchanged with other rhythms, with some sections sung rather than rapped.

While Bone Thugs-n-Harmony was mixing chopper rap, triplet flow, and singing, Three 6 Mafia was cultivating an aggressive, dark, menacing style of rap that eventually became known as crunk.<sup>25</sup> Three 6 Mafia's musical signatures include drum beats made with the Roland TR-808 drum machine, deep, synthesiser-generated bass lines and repetitive, chanting vocals often including triplets.

<sup>24</sup> Evidence supporting this observation appears in Condit-Schultz (2016) and Duinker and Martin (2017). The downward trends found in these publications are reflected in mean tempo values for corpora of songs; of course, many hip-hop songs with outlying tempos were, and still are, produced.

<sup>25</sup> Crunk is today most often associated with Atlanta-based Lil' Jon and the East Side Boyz, known for crunk anthems such as 1997's 'Who U Wit' and 2002's 'Get Low'.

Verse 4 (2:23)  
♩ = 86

Verse 1 (0:11)  
♩ = 67

Sip - pin' on six mur - dered mi - ni - sters the salt - y blood from the cup that they call ho - ly grail

Example 8. 'Sleep' (Three Six Mafia, 2000). Lord Infamous raps with little variance in pitch, articulation or volume. This lack of variance exposes the propelling, energetic, yet almost mechanical qualities of triplet flow.

the success of Atlanta duo Outkast meant that other Southern artists began to enjoy increased commercial and critical attention, albeit gradually.<sup>29</sup> Second, the importation of the crunk sound from Memphis to Atlanta and its subsequent increased popularisation by artists such as Lil' Jon preserved Atlanta's status as the centre of southern hip-hop. Third, and most recently, the emergence and popularity of trap beats – slower, texturally sparser and more bass-heavy than those found on crunk records – coincided with the rise in prevalence of triplet flow (which I believe not to be coincidental, as described below). Writing in 2007, Roni Sarig proclaimed that the 'era of Southern hip hop is over' (p. 337), suggesting that Southern hip-hop artists were growing less and less distinct from those of other regions. While this may be true in a general sense – hip-hop music is arguably becoming increasingly less regional in the internet age – much of the ensuing homogeneity has come from artists in other regions emulating stylistic traits that have been percolating in the South for some time.<sup>30</sup>

Trap music borrows the term 'trap' from describing 'street life centred on dead-end hustles and other fast tracks to jail or the morgue' (Sarig 2007, p. 210).<sup>31</sup> Trap beats are characterised by the deep sub-bass lines and 808 beats (drum beats produced by the Roland TR-808 drum machine) also found in Three 6 Mafia's 1990s releases, supplemented by synthesiser-driven string lines, minor and diminished harmonic sonorities, slower tempos and inconsistent hi-hat patterns. (If they follow a more regular rhythmic pattern, the hi-hat parts are occasionally brought down in the audio mix relative to the kick and snare drums.) The texture of these beats is often quite sparse, with a tempo range of approximately 60–75 bpm.<sup>32</sup> These two

<sup>29</sup> To be sure, Outkast was not solely responsible for increased exposure of Southern hip-hop artists, but their 1995 *Source Award* for best new artist and three Grammy Awards for *Speakerboxx/The Love Below* (2003) were instrumental in exposing Southern hip-hop to a wider audience. Sarig (2007) suggests a loose coordination between Outkast's trajectory and the greater fortunes of Southern hip-hop, writing that 'the group's arrival coincided with the birth of a Southern sensibility in hip-hop, and its peak heralded the era where Southern hip-hop dominated American pop' (p. 340).

<sup>30</sup> See Weiner (2012), Lee (2014), and Setaro (2016) for arguments about why hip-hop music has become less regional in recent years. Lee specifically cites rap scholar Murray Forman as stating that 'the internet has facilitated a sense of placelessness'. Two factors (among presumably many) contributing to this 'post-regionalism' include the ubiquity of the internet enabling MCs and beatmakers to more easily collaborate remotely, and Soundcloud and other music sharing platforms enabling hip-hop artists to connect with and form communities that are not tied to specific locales.

<sup>31</sup> In addition, a 'trap house' can be considered synonymous with a 'crack house' or 'drug house' – houses where drugs are manufactured, used, and occasionally sold.

<sup>32</sup> This tempo range could also be construed as 120–150 bpm, if the unit pulse is taken to be twice as fast. In choosing to notate examples in the 60–75 bpm window, my attention to backbeat drum patterns influences my decision. De Clercq (2016) questions the usefulness of this approach and shows many situations where absolute time is a more accurate and reliable method for determining measure length.

Verse 1 (0:16)  
♩ = 62

Flow  
hun - nid' bands hun - nid' bands dropped on the head of a - ny nig - ga want it man

Beat (synths)

Beat (drums)

Example 9. 'With That' (Young Thug, 2015). Young Thug's signature style includes auto-tuned sing-rapping and frequent use of triplet flow. In this example, the beginning of each line of lyrics is displaced from the metrical downbeat established by the beat layer.

musical characteristics are crucial. As mentioned earlier, slower tempos are easier to rap over (especially in triplets). Beat textures made sparse through the absence of regular hi-hat patterns tend to lack a constant sub-tactus pulse. The regularity and consistency of triplet flow fills this textural gap quite naturally, resulting in a flow layer that not only facilitates the lyrics but regulates the temporal aspect of the entire song. Atlanta-based Young Thug's 'With That' (2015, partially transcribed in [Example 9](#)) exemplifies how triplet flow and trap beats complement one another almost naturally. The song has a tempo of 62 bpm, features a relatively sparse instrumental texture (the synths notated in the transcription are never all that loud in the track), and lacks a constant hi-hat pattern in the beat. On top of this beat, Young Thug raps constantly in triplet flow, with ample freedom to establish different phrase structures over this sparse, slow beat.<sup>33</sup> However, through a varied phrasing structure, his triplet flow maintains enough consistency to be able to function as the primary sub-tactus pulse layer in this song, assuming the role usually filled by the hi-hat.

Trap music's popularity over the past decade represents the final phase in triplet flow's evolution from an occasionally used and non-codified rhythmic technique in the late 1980s and early 1990s to a signature feature of Southern hip-hop's current hegemony over the genre at large. Triplet flow's popularity is easy to gauge. David Drake (2014) suggested that the rapper Quavo (of Atlanta-based Migos) was the most influential rapper of 2014 on account of his triplet flow in the group's single 'Versace' (2013). Despite being versatile MCs who have cultivated idiosyncratic flow styles, both Kendrick Lamar and Big Sean use triplet flow on some of their early singles, 'Swimming Pools' (2012b) and 'Blessings' (2015c), respectively. Other artists who regularly use triplet flow such as Young Thug, Drake, Meek Mill, G-Eazy and Future also enjoy frequent chart success with their singles. Finally, Designer's and

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My reasons for preferring the slower tempos here are several. First, it means that across the whole paper, my notation remains consistent, in that the backbeat pattern is always used to determine a measure of common time. And second, textural and harmonic aspects of the beat layer in these 'slower' beats often suggest a hearing in the slower tempo.

<sup>33</sup> Aside from using triplet flow often, Young Thug's other vocal signatures include near-constant use of autotune and partially incomprehensible lyrics.

Cardi B's spells at the top of the Billboard Hot 100 since 2016 have perhaps cemented this flow's dominant status in commercial hip-hop music.

### General stylistic properties

Certain musical norms prevail in many of the more recent songs featuring triplet flow. In order to substantiate this observation, I assembled and analysed a 50-song corpus, detailed in Table 2.<sup>34</sup> Released between 2012 and 2017, these 50 songs exhibit several common characteristics. First, with only five exceptions, their tempos fall between 58 and 75 bpm. This figure mirrors my observation made earlier that, over beats up to 75 bpm, rapping in triplets is not prohibitively difficult, affording variegated phrasing possibilities to the MC and offering intelligible lyrics to the listeners.<sup>35</sup>

Second, while all 50 songs use triplet flow in verse sections, only 11 songs use it in hook sections (in hip-hop journalism and scholarship, the term 'hook' is often used instead of 'chorus'). When we consider the increasing prevalence of verse/hook-alternating song forms in hip-hop music over time, triplet flow's ubiquity in verses seems more natural: choruses or hooks in commercial popular music – hip hop included – tend to have simpler, more repetitive lyrical and rhythmic structures, in order to be catchier and more memorable.<sup>36</sup> The prevalence of duple-divided hooks in this corpus suggests an analogy to David Temperley's (2007) 'loose-verse tight-chorus' model for formal sections in rock. Temperley found that the pitch content of chorus melodies fits more tightly with the harmony that underlays them (dissonances resolve properly, and fewer non-chord tones are used) than that of verses. Adapting this dichotomy to the rhythmic plane, we could suppose that because of the inherent tension between triple- and duple-divided tacti that occurs with triplet flow atop duple-divided beats, duple-divided vocal rhythms seem to work better in hook sections, while triplet flow works better in verses, producing 'unified' and 'stratified' (Temperley's terms) rhythmic textures, respectively.<sup>37</sup>

<sup>34</sup> The corpus was assembled using songs referenced in Caswell (2017) and Drake (2014) and supplemented with additional songs.

<sup>35</sup> Condit-Schultz (2016) found that while average song tempo in hip-hop music has decreased over time, average rap speed (measured in syllables per second) has remained relatively constant, suggesting that MCs rap more syllables over slower beats. The two songs with tempos around 100 bpm discussed earlier ('Fight the Power' and 'Flow Motion') feature, in general, sixteenth-note based flows (excepting where triplet flow occurs), meaning that if each sixteenth note were occupied with a syllable, the syllabic rate of these flows would average 6.67 syllables per second (slightly higher than Condit-Schultz's found average of 4.5 syllables per second). Rapping sixteenth-note triplets in a tempo range of 60–75 bpm would produce a window of syllabic density between 6 and 7.5 syllables per second; again, higher than Condit-Schultz's average, but certainly within the capability of many MCs. This suggests that triplet flow in this tempo range is perhaps faster than the average rap speed of most MCs, but not so fast as to compromise clean and intelligible vocal delivery. Syllabic densities in the 6–7.5 syllables per second range may also correspond to the natural cadence of the English language. Although accurate calculations of the general, average spoken speed of a language are impossible to produce, various specific studies on the topic have been conducted. For example, in a comparative study of seven spoken languages, Pellegrino et al. (2011) found an average speech rate of 6.19 syllables per second for the English language, not far from the rates discussed above.

<sup>36</sup> Throughout hip-hop's Golden Age, Duinker and Martin (2017) observed a general move away from strophic song forms toward verse–hook forms.

<sup>37</sup> Krims (2000, pp. 85–6) suggests that hip-hop's gradual adoption of R&B-style choruses, including sung vocals, occurred in the mid-1990s, with the advent of what he calls Don rap: a blend of two of his four genres, reality rap and mack rap.

Table 2. Fifty-song mini-corpus

Artist	Song (Album)	Year	Tempo (bpm)	Triplet flow location	Triplet flow type (M=mixed, P=phrasal, T=total)	Grouping dissonance	Delayed onsets	Single-syllable rhymes	Multi-syllable rhymes
Kendrick Lamar	Swimming Pools (Good Kid, M.A.D.D. City)	2012	74	verse	T	x	x	x	x
Kendrick Lamar	Bitch Don't Kill My Vibe (Good Kid, M.A.D.D. City)	2012	67	verse	P	x	x	x	x
Kendrick Lamar	Backstreet Freestyle (Good Kid, M.A.D.D. City)	2012	77	verse	P				x
Sir Michael Rocks	NWØ (Lap of Lux)	2012	70	verse	M				x
Future ft. Juicy J	I'm Trippin (Pluto)	2012	70	verse	M, P			x	x
Migos ft. Drake	Versace (Young Rich Niggas)	2013	66	verse and hook	P, T		x	x	x
A\$AP Rocky ft. 2 Chainz, Drake, & Kendrick Lamar	Fuckin' Problems (Long live A\$AP)	2013	96	verse	P		x	x	
Drake	The Language (Nothing Was the Same)	2013	60	verse	T		x		x
Drake ft. Soulja Boy	We Made It (single)	2013	58	verse	T		x		x
Rocko ft. Young Jeezy	Which 1 You Workin (Lingo 4 Dummies)	2013	70	verse	T		x		x
Kanye West	Black Skinhead (Yeezus)	2013	130	verse and hook	T	x	x	x	x
Justin Timberlike ft. J Cole et al.	TKO (Remix) (single)	2013	69	verse	P	x			x
Gucci Mane et al.	Intro (WW3: Lean)	2013	70	verse	P, T			x	x
Migos	Cross The Country (Rich Nigga Timeline)	2014	60	verse	P				x
Meek Mill	Ooh Kill 'Em (single)	2014	67	verse	P		x		x

Continued

Table 2. Continued

Artist	Song (Album)	Year	Tempo (bpm)	Triplet flow location	Triplet flow type (M=mixed, P=phrasal, T=total)	Grouping dissonance	Delayed onsets	Single-syllable rhymes	Multi-syllable rhymes
Run The Jewels	Oh My Darling Don't Cry (Run The Jewels II)	2014	75	verse	P	x		x	x
Iggy Azalea	Fancy (The New Classic)	2014	95	verse	P				x
Rick Ross ft. Kanye West & Big Sean	Sanctified (Mastermind)	2014	63	verse	P				x
Speaker Knockerz	Erica Kane (Married to the Money II)	2014	68	verse and hook	P, T				x
King Louie ft. Lil' Herb	Eastside Shit (Drilluminati)	2014	64	verse	T		x		x
Future	Covered N Money (Honest)	2014	63	verse and hook	T	x	x	x	x
Vince Staples	Senorita (Summertime '06)	2015	63	verse and hook	M, P	x			x
Big Sean ft. Drake and Kanye West	Blessings (Dark Sky Paradise)	2015	60	verse	P, T	x		x	x
Big Sean	Skyscrapers (Dark Sky Paradise)	2015	71	verse	P	x	x		x
Big Sean	Dark Sky (extended version) (Dark Sky Paradise)	2015	64	verse	P, T	x			x
Meek Mill ft. Nicki Minaj	Bad For You (Dreams Worth More than Money)	2015	72	verse	T	x		x	x
Young Thug	Best Friend (Slime Season)	2015	63	verse	P	x			x
Drake ft. Future	Digital Dash (What a Time to be Alive)	2015	70	verse	P	x	x	x	x

Continued

Table 2. Continued

Artist	Song (Album)	Year	Tempo (bpm)	Triplet flow location	Triplet flow type (M=mixed, P=phrasal, T=total)	Grouping dissonance	Delayed onsets	Single-syllable rhymes	Multi-syllable rhymes
Missy Elliot ft. Pharrell Williams	WTF (Where They From) (single)	2015	121	verse	P	x		x	
Freddie Gibbs ft. ManMan Savage	Packages (Shadow of a Doubt)	2015	65	verse and hook	P, T		x	x	x
Usher ft. Nas & Bib Bourelly	Chains (single)	2015	67	verse and hook	T	x	x	x	x
Desiigner	Panda (New English)	2016	72	verse and hook	T	x	x		x
Young Thug	With That (Barter 6)	2016	62	verse and hook	P	x	x	x	x
G Eazy ft. Bebe Rexha	Me Myself and I (When it's Dark Out)	2016	56	verse	M, P	x	x	x	x
A\$AP Ferg	Rebirth (Always Strive and Prosper)	2016	84	verse	P				
Chance the Rapper ft. Kanye West et al.	All We Got (Coloring Book)	2016	66	verse	P	x			
Chance the Rapper ft. Young Thug & Lil Yachty	Mixtape (Coloring Book)	2016	64	verse	P		x	x	x
Usher ft. Young Thug	No Limit (Hard II Love)	2016	64	verse	P	x		x	x
Roscoe Dash	Wassup (Glitch)	2016	70	verse	P		x		x
Young Thug ft. Travis Scott & Quavo	Pick up the Phone (JEFFERY)	2016	68	verse and hook	P, T	x	x	x	x
Juicy J ft. Offset	Flood Watch (single)	2017	60	verse	P				x
Cardi B	Bodak Yellow (CB1)	2017	62	verse	P	x	x	x	
Hoodrich Pablo Juan ft. Lil Uzi Vert	Zombamafoo (Hoodwolf)	2017	60	verse	P			x	x
Young Thug	Take Care (Beautiful Thugger Girls)	2017	67	verse	P				x
Kendrick Lamar	DNA. (DAMN.)	2017	64	outro	T	x	x	x	

Continued

Table 2. *Continued*

Artist	Song (Album)	Year	Tempo (bpm)	Triplet flow location	Triplet flow type (M=mixed, P=phrasal, T=total)	Grouping dissonance	Delayed onsets	Single-syllable rhymes	Multi-syllable rhymes
Young Thug	Feel It (Beautiful Thugger Girls)	2017	62	verse	P	x	x	x	x
Charli XCX ft. Starrah & RAYE	Dreamer (Number 1 Angel)	2017	70	verse	P, T				x
Lil' Uzi Vert ft. Pharrell Williams	Neon Guts (Luv is Rage 2)	2017	60	verse	P, T		x	x	x
Post Malone ft. Quavo	Congratulations (Stoney)	2017	62	verse	P			x	x
Migos	Bad and Boujee (Culture)	2017	63	verse and hook	P, T			x	x

Third, approximately half of the songs in the corpus feature metric displacement or grouping dissonances between the flow and beat. Displacement dissonances, as formalised and described by Harald Krebs (1999, p. 34), involve an interaction of metric layers (in this case beat and flow) whose lengths, or cardinalities, are identical or multiples of one another, but whose start and endpoints are misaligned. Displacement dissonances in triplet flow usually assume the form of delayed vocal entries, where a metric unit of flow (typically lasting one measure in 4/4 time) begins later than the metric unit of the beat that underlies it. These units of vocals can either straddle two metric units of the beat layer, such as in the first verse of 'Best Friend' (Young Thug, 2015, [Example 12](#)); alternatively, these units of vocals might end in sync with the unit of the beat that underlies them, such as in the hook of 'With That' (Young Thug, 2015, [Example 9](#)). Grouping dissonances describe situations where, through the organisation of rhymes and caesuras, the metric units generated by the flow layer are of different lengths or cardinalities than the units of the beat layer. A common example of this phenomenon occurs when units of flow are organised in the tresillo beat pattern (3+3+2) or double tresillo beat pattern (3+3+3+3+2+2) over equally divided measures of the beat – those that do not exhibit tresillo-like grouping structure. These dissonances are illustrated in more detail in subsequent musical examples.

The fourth characteristic concerns rhyming patterns. Few songs in the corpus feature single-syllable rhymes; most feature a combination of single and multi-syllable rhymes, or multi-syllable rhymes only. To be sure, single-syllable rhymes could be rarer in all hip-hop music. Yet the high prevalence of multi-syllable rhymes in this corpus suggests that MCs are aware that rhyming two or three syllables across a triplet figure works well. This in turn suggests that the triplet rhythms are already in the mind of the MC when the lyrics are composed. Contrasting this observation with the declamation patterns of older hip-hop music – where rap vocal rhythms are constructed so that lexical stresses and natural speech rhythms are preserved – it appears that in many recent songs using triplet flow, natural speech rhythm and stresses are of secondary importance to the triplet-driven rhythms. The following examples illustrate how these characteristics engage with one another in individual songs from the corpus.

### *Characteristic examples*

The first verse of 'Me Myself & I' (G Eazy ft. Bebe Rexha, 2015) exemplifies multi-syllable rhymes, delayed vocal entries and grouping dissonance. For instance, the rhymes that open the first verse (0:26) occur in groups of three syllables over a triplet figure; the lyric 'I can see' rhymes with 'pri-va-cy', and 'lot of tree' rhymes with 'mo-de-sty'. The lyrics and flow in this verse are organised in two-measure phrases. Each of these phrases begins slightly after the hyperdownbeat of the beat layer that underpins them. The lyrics 'and as far as I can see' begin on the second quarter note of the beat's two-measure loop. Concluding with the lyrics 'try-na see', this phrase ends immediately before the ensuing hyperdownbeat of the beat layer, and thus any caesura that would separate this phrase from the next one would have to – and does – occur at the beginning of the next two-measure loop of the beat. The third phrase (shown in [Example 10](#)) exemplifies a grouping dissonance between flow and beat layers. As the brackets grouping the sub-phrases of lyrics detail, the phrase divides into four groups of three eighth notes followed by one group of

four eighth notes, creating a 3+3+3+3+4 (a variant of the double tresillo) pattern over the evenly divided beat layer. The sub-phrases in the flow layer are easily heard when paying attention to the rhyme scheme here: again using multi-syllable rhymes, G-Eazy demarcates sub-phrases with the lyrics ‘be alone’, ‘be at home’, ‘speakin’ on’, ‘need a loan’ and ‘keepin’ on’ (all highlighted in [Example 10](#)).

A more intricate example of grouping dissonance occurs in the eighth and final verse of ‘Oh My Darling Don’t Cry’ (Run the Jewels, 2014), excerpted in [Example 11](#). In this passage, Killer Mike rhymes ‘game’, ‘caine’, ‘(a)gain’ and ‘(in)sane’ across a variety of metric positions. While Killer Mike begins this verse on the hyperdownbeat of the beat’s main two-measure loop (as shown in the example), his single-syllable rhymes – which punctuate the metric units of his flow – create groupings of three and four eighth notes, meaning that their grouping boundaries rarely fall on the same beat. Thus, Killer Mike’s technique of combining strings of triplets in varying lengths enables him to interact with the beat layer in such a way that creates a slight metric tension between the two layers, all while using a limited rhythmic palette of sixteenth-note triplets and eighth notes and combining forward-propelling triplet flow with punctuating rhymed syllables.

In his song ‘Best Friend’ (2015), Young Thug raps most of the first verse in triplet flow, and as [Example 12](#) shows, the beginnings of some of his lines of lyrics occur one quarter note earlier than the beginning of the harmonic loop that comprises the beat layer. Contrary to the technique used by G-Eazy in ‘Me Myself & I’ – where a line of lyrics with a delayed beginning still ended in concordance with the metrical structure of the beat – here Young Thug continues rapping over the subsequent downbeat of the beat layer, making the displacement between flow and beat more audible.

Revisiting a song discussed earlier, the second verse of Kendrick Lamar’s ‘Swimming Pools’ ([Example 3b](#)) demonstrates a concise example of how triplet flow – with the aid of its signature characteristics – can sculpt the form of a song section. Lyrically, the verse divides neatly in two. During the first half (beginning at 1:30, not shown in the example), Lamar’s conscience offers stern advice regarding his excessive drinking habits, while during the second half (beginning at 1:42, partially shown in [Example 3b](#)), Lamar offers his own reflections on this advice. The phrases constituting the first half of the verse are displaced metrically from the beat, and they all utilise multi-syllable rhymes. The clarity of formal organisation here corresponds to the clarity of the conscience’s message: curb your excessive drinking habits or face the consequences. The phrases constituting the second half of the verse (partially shown in [Example 3b](#)) use a combination of single- and multi-syllable rhymes whose varied metric locations create a grouping dissonance with the beat, as shown with brackets in the transcription. The lyrics parallel this increase of complexity, as now Lamar grapples with acknowledging binge drinking’s negative effects while also being aware of alcohol’s enabling characteristics. Thus, the formal, rhythmic and lyrical trajectory of this verse tends to follow a unified course from simplicity to complexity, building suspense and energy that carries forward into the following hook (1:56).

### *Mixed, phrasal and total triplet flow*

Most songs in the corpus feature triplet flow at the phrase level (phrasal triplet flow). Slightly less prevalent are songs that use total triplet flow at the level of the verse or hook. Rarest are songs that either only use triplet flow at the sub-phrase level (mixed

verse 1 (0:43)  
♩ = 56

Flow

Beat

Flow lyrics: I just need to be a-lone | I just need to be at home | un-der-stand what I'm  
speak-in'-on | if time is mo-ney I need a loan | but re-gard-less I'll al-ways keep keep-in'-on

Example 10. 'Me Myself & I' (G Eazy, 2015). Multi-syllable rhymes are shaded. Represented here with the recurring bass line, the beat layer repeats a loop of two measures. Atop each iteration of this loop, the flow enters delayed by various durations. This excerpt shows the double tresillo grouping (3+3+3+3+4) of the lyrics, creating a grouping dissonance with the harmonic rhythm of the bass line.

triplet flow), or those that use it throughout the entire song (total triplet flow). Mixed and phrasal triplet flows describe situations where triplets are interspersed with other (usually duple- or quadruple-divided) rhythms, either at the sub-phrase or phrase level, respectively. Stark contrast often characterises this interspersing: the duple rhythms are usually freer and more varied in construction, while the triplet flow proceeds, simply, in a string of triplets. The contrast, depending on the context, can evoke a variety of effects. The listener's sense of metre might be destabilised, or the motional energy of the musical passage might be affected. I will now proceed by dissecting an example of mixed triplet flow and focusing on its effects on the listener, followed by a similar procedure for examples of phrasal and total triplet flow.

Long Beach rapper Vince Staples uses mixed triplet flow in his 2015 single 'Senorita'. This song's main hook comes from Atlanta artist Future's single 'Covered N Money' (2014). While most of the triplets in this track occur during the hook, Staples raps much of the first verse in mixed triplet flow, as suggested by the excerpt transcribed in Example 13. Staples rhymes certain syllables more than twice, varies the metric location of these rhymes, and therefore also varies the alignment of lines with the underlying metric structure of the beat.

In a nod to speech-effusive rapping, Staples frequently alters triplets to match what occurs in the natural stresses of the text. For instance: instead of rapping in triplets for the words 'fly in that Benz but you hid in that', Staples raps the words closer to the way they might be spoken naturally, rather than being tripletised.<sup>38</sup> Thus, in using mixed triplet flow, Staples exploits the rhythmic tension inherent between natural speech rhythm and triplet flow. This example is, however, not that simple. The transcription does not always exactly reflect how Staples raps; his microtemporal variations, especially on the duple rhythms, mean that his flow

<sup>38</sup> I take precedent for making these assumptions about natural speech rhythms from Harald Krebs's (2014) work on declamation in Schumann Lieder. Specifically, as English is a stress-timed language (like the German language studied in Krebs's work), stressed syllables are typically spoken with different durations than unstressed syllables. Consequently, when a stress-timed language is spoken (in this case rapped) in consistently equal rhythmic values – in this case triplets – the normal durations for stressed syllables are suppressed.

verse 8 (2:58)  
♩ = 75

Flow

Run - nin' the jewels of the **game**, whip - pin' the mix is like chick - ens of **'caine**, spit - tin' the

Beat

Flow

sent - ence a - **gain**, par - ents is li - vid a - **gain**, kids is just fuck - in' in - **sane**,

Beat

Example 11. 'Oh My Darling Don't Cry' (Run the Jewels, 2014). The beat layer is represented by the drum pattern. As shown with the brackets and highlighted rhyme syllables, the flow layer's grouping boundaries occur in varying metric positions.

Verse 1 (1:12)  
♩ = 63

Flow displacement: D (4 - 1)

Flow

them if they nudge bang that oth - er side, nig - ga curb and my reef - er loud -

Beat

Flow

er than a **speak - er** yeah my niece is hang - in with The **Beat - les** if you ev - er find

Beat

Example 12. 'Best Friend' (Young Thug, 2015). The beat layer here includes the bass line and plucked-string melody. As the brackets under the lyrics show, the flow layer is displaced from the beat layer by D(4-1), meaning that each layer exhibits groups of four quarter notes, and the flow layer's groups begin one quarter note earlier than those of the beat layer.

occasionally lies somewhere in between duple and triple.<sup>39</sup> Throughout this verse, the expressive effect of Staples's flow varies. On the one hand, the frequent interjection of duple rhythms has a disorienting effect on the listener's perception of regularity in the flow. On the other hand, these approximations allow Staples to sound calm and in control, as though his mixture of triplets and duplets is merely a by-product of his lyrical delivery.

I now turn to two examples of phrasal triplet flow wherein the orientation of triple and duple rhythm within a verse imposes contrasting effects on the motional energy created by the flow. In each of the following excerpts, the MC raps in a mixed duple-rhythm flow before switching to a constant string of equally-spaced triplets. In 'Oh My Darling Don't Cry' (Run the Jewels, 2014), Killer Mike raps the fourth verse as transcribed in [Example 14](#). He switches to triplet flow on the lyric 'blowin'' and, while the earlier part of this passage includes a mixture of intricately divided duple rhythms, the incessant regularity of the triplets allows Killer Mike to slowly increase the perceived motional energy of this passage, driving toward the caesura following the word 'whiskey'.

While the syllabic density per measure thus increases only slightly once Killer Mike begins rapping in triplets, the motional energy of the passage increases dramatically, mainly owing to the incessant rhythmic regularity of the triplet flow. In 'Ooh Kill'em' (Meek Mill, 2014), the triplet flow creates the opposite effect: a decrease or dissipation of motional energy. Shown in [Example 15](#), Meek Mill progresses from an intricate mixture of duple rhythmic values to a steady stream of triplets on the lyric 'I grew up'; any sense of motional energy generated by the duple section is momentarily suspended through the triplet flow, which planes over the beat layer. Triplet flow can thus generate contrasting changes in the motional energy trajectory of one or several phrases of lyrics.

Finally, while total triplet flow examples are comparatively rare, the rhythmic and phrasal profiles they can assume are markedly varied, as the remaining examples in this paper will show. The first verse (0:44) of 'Paradise (Extended)' (Big Sean, 2015b) features triplet flow in its most elemental form: a largely uninterrupted string of triplet figures stretching throughout an entire verse. Big Sean's decision not to punctuate lines of tripletised lyrics with rhythmic caesuras has the potential to evoke more of a flowing stream of consciousness rather than an organised narration or assemblage of related subject matter. As [Example 16](#) shows, however, the rhyming scheme organises quite tightly to the beat's faintly established metrical structure. A tight rhyme scheme coupled with lack of caesuras has an especially jarring effect on the listener through the first two measures, as the drums and saxophone have momentarily dropped out of the beat, giving the passage a timeless, suspended feel. Since Big Sean exploits the metric tension between lexical and metric accents in the third and fourth measures (as the highlighted syllables show), the listener is left with few obvious markers of metre by the time the drums and saxophone return (at 0:59) to jarringly re-impose metrical order to the verse.

<sup>39</sup> Kyle Adams (2015) highlights the problems associated with transcribing flow using Western notation, namely this system's inability to represent the subtle rhythmic fluctuations inherent in most MCs' flow. Danielsen (2010) has made a significant foray into this research area in the more general domain of Afro-American musics, and Ohriner (2017) has done some of the most detailed work with microtiming concerning hip-hop flow specifically.

Verse 1 (0:30)  
♩ = 62

Liv - in' for that True Re - li - gion is broke shit I can spend that on a MAC with a long clip

fly in that Benz but you hide in that Fo - cus My nig - ga just fo - cus, I'm try - in' to

Example 13. 'Senorita' (Vince Staples, 2015). The boxed lyrics indicate where, amid triplet flow, Staples raps syllables closer to a duple/quadruple rhythmic division. In several of these instances, his rhythms are noticeably inexact; that is, he inflects his rhythmic delivery with microtiming variations. While this technique is ubiquitous in hip-hop music, it is especially salient in this example, as it contrasts sharply with the regularity of the triplet flow in the hook section of this song.

## Two analyses

### *Dark Sky (Skyscrapers)*

Although it was his third studio release, Detroit-based MC Big Sean's 2015 album *Dark Sky Paradise* was his first to reach number one on the *Billboard Hot 200* chart. The opening track, 'Dark Sky (Skyscrapers)', sets a serious and sombre tone that pervades much of the album, and exemplifies Big Sean's nuanced triplet flow, which he uses in the second verse of the song (beginning at 2:02). With a tempo of 71 bpm, the triplet flow in 'Dark Sky (Skyscrapers)' demands of Big Sean a considerable amount of speed and agility; merely to 'get through' the verse at this tempo requires heightened technical skill and virtuosity. Markers of creativity are also present: Big Sean evokes all three of Krims's flow styles in the context of a single verse. In one sense, his flow is very simplistic: the triplet rhythms themselves are incessantly regular, almost percussion-effusive at times, and are imbued with rhythmic precision. In another sense, Big Sean's sing-song delivery and clearly demarcated vocal phrases are emblematic of sung style. Yet his flow also embodies speech-effusive style: he rarely strays from stressing words according to their lexical stress points, even when these do not line up with metrical accents. To elaborate on this last point, Big Sean's flow in this verse exploits the tension between lexical stresses of lyrics and metric structure implied by the metre of the beat – largely absent in this verse, but maintaining a skeletal presence through a sparse bass line texture.

Based on the rhyme structure, the verse divides into three units of equal length. Three rhyme chains are used, one per unit. The first unit (2:02–2:15) bears all of the stylistic markers of triplet flow discussed in the previous section. A delayed vocal onset begins the verse (2:02), the rhyme and caesura patterns are irregularly spaced, and the rhymes are multisyllabic. As shown in [Example 17a](#), Big Sean rhymes 'speak to me' with 'Z Z Z's', and 'peat-ed-ly', and continues using tri-syllabic rhymes several more times (not shown in example). The metric position of these rhymes leads to the grouping dissonance with the beat shown by the brackets in the example: the groups of flow here run in lengths of 3, 5, 3, 5, 3, 4 and 8 eighth notes respectively (though only the first four are shown in the example). The delayed onset of one

## Verse 4 (1:33)

♩ = 75

read the books, did the math, don't need a preach-er preach-in' on my be - half\_\_ No  
 teach-er can teach my ar - ro - gant ass, I'm blow - in' on crip - py while read - in' in - scrip - tions that's

Example 14. 'Oh My Darling Don't Cry' (Run the Jewels, 2014).

## Verse 1 (0:32)

♩ = 67

few Phil - ly nig - gas that be shoot - in' shit\_\_ I'm like Dre, wish I had my nig - ga Snupe for this\_\_ Oh,  
 I grew up, I screw up a O - Z of crack then I blew up they knew us be -

Example 15. 'Ooh Kill'em' (Meek Mill, 2014).

eighth note contributes to the effect of the grouping dissonance. As the transcription in [Example 17b](#) hypothesises, if Big Sean were to have begun in sync with the beginning of the measure, the rhymes would occur at more predictable metric locations.<sup>40</sup> In this hypothetical situation, instead of spilling over each bar line implied by the beat layer, the rhymes and the phrases they support line up with the measures. More often than not, rhymes that end lines of hip-hop lyrics fall at or toward the metrical end of a measure, hypermeasure or internal division of a measure. Thus, by displacing the first phrase by a quarter note, Big Sean's rhyme placement challenges this convention, and disorients the listener's sense of metre.<sup>41</sup>

Despite the metric complexity created through delayed vocal onset and varying group length, the first three measures of this verse are relatively concordant when we

<sup>40</sup> Condit-Schultz (2016) found that rhyming syllables tend to occur later in musical measures, or at the ends of vocal phrases that line up with the beat's metre.

<sup>41</sup> Here I follow the lead of Adams (2009), who observes a similar clouding of metre-as-heard in Madvillain's 'All Caps' (2004). Since hip-hop music is a non-notated genre, even when scholarship relies on notated scores for explanation, it makes more sense to discuss metre always in the context of how it is heard or felt, rather than how it is notated.

Verse 1 (0:50)  
♩ = 70

Flow

pret - ty pen - ny and she know I'm do - ing num - bers 'til we crash up the whole da - ta - base I

Beat

bring it home like I'm base to base to base clo - set look - in' like Pla - net of the Bath - ing Apes

Example 16. 'Paradise' (Big Sean, 2015b). The beat layer is first represented by the drone bass, followed by baritone sax sample and drums in m. 5.

consider how natural they sound to the ear. The prosodic stresses of the lyrics tend to fall in convincing metric locations. For example, a plausible way to utter the first sentence of the verse would be to stress the word 'speak', as in 'bitch watch how you **speak** to me'. Indeed, the lyric 'speak' occurs on a downbeat of a triplet, and listening to the recording reveals that Big Sean raises his vocal pitch slightly on this lyric to emphasise it. A similar process occurs in the lyric 'try-na get paid re-**peat**-ed-ly', where the syllable 'peat' is stressed, falls on a downbeat, and perhaps logically carries prosodic stress of this sentence. The interaction between prosodic, lexical, and metric accents gets thrown into relief in the passage beginning at 2:12. Big Sean performs the phrase with a variety of accented and unaccented syllables. On multi-syllable words like '**think**-ing' and '**be-com**-ing', his performed accents line up with the lexical stresses of the words (bolded here).

The balance between lexical or prosodic stresses and metric accents becomes more complicated in the second half of this passage, beginning at the lyric 'so I'. Here again the prosodic stresses occur when we might expect them to if the lyrics were spoken, out of musical context. These prosodic stresses, however, do not line up with any eighth-note downbeats in the triplet flow. As a result, this phrase substantially distorts the sense of metre-as-heard in the verse thus far. While the passage beginning at 2:02 challenges the metre at the quarter-note tactus level – strings of triplets of varying lengths create grouping dissonance – the prosodic accents in the passage beginning at 2:12 challenge the metre even further: while the first accents on the syllables 'I've', 'think', 'bout', and 'com' create an eighth-note triplet, the accents on 'I', 'murk', 'nig', 'one', and 'one' distract the listener's ear from the underlying triplets. As a result, Big Sean nearly completely obfuscates the metre-as-heard until reorienting the listener with the lyrics 'I talk that real shit' at 2:17.

Grouping dissonances, syncopated prosodic stresses and multi-syllable rhymes continue to characterise this verse until its end. The dialogue between the simplicity and rhythmic balance of triplets occupies the constant foreground of this verse, and the complex scheme of punctuation, accent, and rhyme. This dialogue between rhythm, accent (including changes in vocal tessitura to effect accent) and punctuation is essential to the construction of rhetoric in an MC's flow. By choosing a trio of syllables to repeatedly rhyme, and by carefully placing caesuras, Big Sean adds coherence to the evolving subject matter of this verse. Consider, for example, the passage

verse 2 (2:05)

♩ = 71

Bitch watch how you speak to me I've been work - ing all week and I know I need

Z. Z. Z. Z's try - na get paid re - peat - ed - ly Ja - mai - ca or Can - cun, now that's where I

Example 17a. first part of verse 2, 'Dark Sky (Skyscrapers)'. Phrase lengths are measured in eighth notes, as shown below each bracket. The final bracket is open-ended in the transcription because it continues over into the next measure.

♩ = 71

Bitch watch how you speak to me I've been work - ing all week and I know I need Z. Z. Z. Z's

Z's try - na get paid re - peat - ed - ly Ja - mai - ca or Can - cun, now that's where I need to be

Example 17b. first part of verse 2, 'Dark Sky (Skyscrapers)', with the vocals shifted backwards by one eighth note. This shift puts the rhyming syllables in positions that eliminate part of the grouping dissonance detailed in Example 17a. For instance, the second vocal phrase now concludes in sync with the notated measure, which itself is notated according to the metric structure of the beat.

beginning at 2:17. Big Sean first speaks of representing his home city of Detroit and being praised for speaking from the heart and concludes the unit by relaying advice given to him from his father. These disparate topics are woven together foremost by the rhyme scheme, where the same three syllables are rhymed between 2:17 and 2:30. The lyrics flow, without a caesura, from one topic to the next: 'treat-ing it like it's the mo-ther-ship/was talk-ing to my dad though on some ot-her shit'.<sup>42</sup> Finally, in two moments where the subject matter or tone shifts rather abruptly, so does Big Sean's accent structure. This can be heard in the abrupt turn to Big Sean's sarcastic comments on racial profiling in police work (2:13), and again in the culmination of his self-reflection (2:38). Although these constitute but a handful of observations on how an MC can harness rhythm, articulation, and accent for rhetorical purposes, they show specifically how such practices can be utilised in the context of triplet flow.

### Panda

As a final analytical excursion, I return to the 2015 sleeper hit 'Panda', notable for the presence of total triplet flow throughout the whole song. At first listen, 'Panda' may not sound altogether intriguing for analysis – the lyrics are repetitive, in some

<sup>42</sup> Big Sean weaves these topics together with wordplay, following 'mothership' with 'dad'.

Verse (1:46)

I got broads in At-lan-ta twist-in' dope, lean, and shit, sip-pin' Fan-ta  
 cre-dit cards and the scam-mers wake up Ver-sa-ce shit, life De-sign-er

Example 18. excerpt of the first part of the verse in 'Panda' (Desiigner, 2015).

instances contain non-sequiturs, and the constant airplay the song received has led to some derision among critics and fans alike – but with closer scrutiny, several features of Desiigner's flow warrant analytical discussion.<sup>43</sup> The lyrics follow a nearly palindromic form, with two pairs of hooks bookending a longer central verse. While the flow in the chorus follows a repeated rhythmic pattern, the central verse (1:46–2:38) departs from this pattern in a variety of ways. The central verse divides further into four units of equal lengths (beginning at 1:46, 1:59, 2:12 and 2:25, respectively), according to the aurally salient trajectories of syllabic density in the flow.

Each unit undergoes an elaboration or intensification process wherein the rhythmic and prosodic structure of the flow in the first measure of each unit becomes modified across the latter three measures. In the first unit (partially excerpted in Example 18), the rhyming and rhythmic structures across the first two lines of lyrics are largely consistent. The syllables 'At-lan-ta', 'Fan-ta', 'Scam-mers' and 'De-siign-er' are rhymed on the eighth-note offbeats of beats two and four. (Desiigner pronounces his own moniker so as to rhyme in this sequence, making it sound more like 'De-zan-na', converting 'scammers' and 'Desiigner' from a slant-rhymed pair to a perfect-rhymed pair.<sup>44</sup>) Interpolating these multi-syllable rhymes are the words 'broads' and 'cards' (pronounced 'cawds'), as well as the syllable sets 'lean and shit' and 'Ver-sa-ce shit'. These syllable sets form the model for subsequent rhymes later in the unit, but the metric placement of these rhymes causes the flow phrases to misalign with the beat, similar to what was seen in 'Best Friend' (Example 12).

The fourth unit (2:25–2:38) is the most striking in terms of rhyming structure and metric interplay between the flow and beat, uniting two of the stylistic features discussed in the last section: delayed vocal entries with grouping dissonances. The flow follows a displaced tresillo pattern: the phrases are four quarter notes (one measure) long, and follow a 3+3+2 pattern (values in eighth notes), such as over the lyrics 'I got broads yeah I get it' (3), 'I get cards yeah I shit-ted' (3), 'This how I live it' (2). Each tresillo pattern begins one eighth note later than the beat. To effectuate this displacement, Desiigner adds a placeholder lyric in 'get it' at the beginning of the unit, in that it does not join syntactically to the lyrics it follows or precedes, but

<sup>43</sup> Friedman (2016) discusses the reasons for derision toward Desiigner and his success, focusing mainly on how the Brooklyn rapper has capitalised on Atlanta-based Future's signature sound. Lil' Donald, an MC on Future's label Freebandz, released a Desiigner diss track called 'Fuck Panda' in May 2016, using the same beat as 'Panda'.

<sup>44</sup> Slant rhymes refer to rhymed pairs where the final consonant rhymes, but the final vowel does not. Bradley (2009, p. 48) uses the example of 'all' and 'bowl' for explaining slant rhymes.

functions metrically as a rhyme with three measures that follow it. The rhythmic pattern used for the three-eighth-note long portions of the tresillo pattern comes from the opening motive of the verse on the lyrics 'I got broads from At-lan-ta'. In this way, the fourth unit functions as an elaborated recurrence of the opening material.

## Conclusion

Through this article I have endeavoured to focus on triplet flow by examining its development and recent popularity, its stylistic markers, its ostensible simplicity yet underlying complexity, and its potential as a rhythmic template for creativity, virtuosity and rhetoric. To begin, I defined triplet flow via the three main formal contexts in which it occurs: at the sub-phrase (mixed triplet flow), phrase (phrasal triplet flow) and formal unit or song (total triplet flow) levels. I then situated the characteristics of triplet flow within Adam Krims's stylistic categories of flow, which includes speech-effusive, percussion-effusive and sung styles. Using Krims's system to show that triplet flow bears markers of his styles demonstrates that triplet flow acts as more than a novel tool MCs can use to diversify their flow; it has the potential to function as a versatile rhythmic base supporting a wide range of idiosyncratic flows MCs might use. I then analysed several early examples of triplet flow in order to highlight the stylistic blueprints of this flow. Further work could be done to show how these early examples influenced, inspired or provided source material for later triplet flow, but this work should acknowledge the danger of assuming well-defined stylistic relationships between artists and songs without supporting ethnographic research. For this reason, I have avoided speculation on precisely how triplet flow evolved from its earliest forms in songs by Public Enemy and others, instead endeavouring to illuminate the diversity in triplet flow that existed already in those early years.

With the aid of a 50 song mini-corpus, I then enumerated and unpacked four stylistic markers of modern triplet flow: multi-syllable rhymes, delayed vocal entries, grouping dissonance and the somewhat narrow song tempo range of 60–75 bpm. I used songs by G-Eazy, Big Sean, Run the Jewels, Meek Mill, Vince Staples and Young Thug to exemplify these markers and provide examples of phrasal (more common) and total (less common) triplet flows. Utilising this corpus further, research could be undertaken to evaluate how unique to triplet flow these markers are. I suspect that certain markers such as grouping dissonance and delayed vocal entries are more universal than this corpus might suggest, but that the distribution of song tempos and prevalence of multi-syllable rhymes might correlate more strongly with songs using triplet flow.

In analysing 'Dark Sky (Skyscrapers)' and 'Panda' in greater detail, I focused on longer and more nuanced examples of triplet flow. In 'Dark Sky (Skyscrapers)' I discussed how Big Sean harnesses triplet flow to both inform and be informed by the prosodic and lexical stresses of his lyrics. In 'Panda' I focused on how Desiigner begins with a rhythmic motive in triplets and elaborates on it, shifting accent location, increasing rhythmic density, and displacing phrase/group boundaries. Here and elsewhere in the article I began to ruminate on how these techniques shape the rhetoric of the lyrics; more work in this direction could (and should) be done in order to cast into increased relief the relationship between lyrics, flow, and beat in hip-hop music. In addition, further research towards developing analytical

Pre-chorus (0:56)

and I can be all the things you told me not to be when you try to come for me I keep on flou-rish-ing

Example 19. pre-chorus from 'God Is a Woman' (Ariana Grande, 2018). X-shaped note heads represent unpitched lyrics in Grande's performance.

methods that account for expressive microtiming in flow would help us better understand the subtleties of relationship between natural speech rhythms and rhythmicised triplet flow.

Through these two longer analyses and the shorter ones that preceded them, I have shown how, in triplet flow, a variety of metric, accentual, and phrasal techniques can be superimposed onto a rhythmic surface that is, on its own, often quite simplistic. The nuanced metric placement of rhyming syllables, the alternation of single- and multi-syllable rhymes, the displaced vocal onsets, grouping dissonances between flow and beat, and the possibility of mixture between duple and triple rhythms combine to give the most compelling – although often simple on the rhythmic surface – occurrences of triplet flow astounding complexity and variety. I have also attempted to show that part of triplet flow's appeal to MCs and consumers of hip-hop music alike lies in the complex – often tension filled – interaction between the lexical and prosodic stresses inherent in the English language and the triplet rhythms themselves.<sup>45</sup> To be sure, many of these techniques are used in duple-based flows as well. However, their presence in the increasing repertory of triplet flow songs further illuminates their role as markers of virtuosity, creativity, and rhetoric, as well as triplet flow's ability to showcase these markers.

Whatever its appeal may be, triplet flow appears to be here to stay. A survey of recent releases by Young Thug (*Beautiful Thugger Girls*, 2017), Migos (*Culture II*, 2018), Future (*Future*, 2017), Big Sean (*I Decided*, 2017), Kendrick Lamar (*DAMN*, 2017) and Cardi B (*Invasion of Privacy*, 2018) suggests that triplet flow has become part of these artists' toolkits. Childish Gambino's use of it along with a dark-sounding trap beat in 'This is America' (2018) helps illustrate the narrative irony and contrast embodied in that song's lyrics. Furthermore, triplet flow-influenced singing has begun to make its way into mainstream popular music, as Example 19 details for the pre-chorus of Ariana Grande's 'God is a Woman' (2018).

Perhaps triplet flow has asserted itself as a popular style alongside more established styles of flow; not overused, but often present in some quantity. I have suggested that modern triplet flow comes from Southern hip-hop music, especially through its popularisation by Three 6 Mafia and current use by Atlanta trap rappers like Young Thug, Migos and Future. If triplet flow was originally a Southern phenomenon, it now permeates every region of the North American hip-hop landscape, including Francophone hip hop coming out of Quebec. As discussed earlier, recent writings suggest that we are currently in a post-regional era of hip-hop music, where subtle stylistic variations between geographic regions have evaporated,

<sup>45</sup> As a durational-stress language, spoken English relies on varying syllabic durations to generate proper context and meaning. The regularity of triplets challenges this paradigm of English, as the foregoing analytical work has demonstrated.

largely owing to the internet's presence in and influence over the commercial music industry. Triplet flow, therefore, functions as prime sonic evidence that stylistic traits developed in the South now dominate the hip-hop genre at large. If good things do come in threes, hip-hop music has arguably found something good in triplet flow.

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