



# Tahir Hemphill

By: Amanda Anderson-You

# Background



- Grew up in Queens in the 1980s
- Inspired by Hip-hop culture and exploring cyberspace as a child.
- Work is a hybrid of art, technology, social engagement, and interdisciplinary research. Looks at systems and form as well as collaborative knowledge and resilient communities.



# Hip Hop Word Count

Online searchable database that analyzes the language in hip hop and looks at hip-hop as a cultural indicator.

Used for research, visualizations, and teaching (Rap Research Lab)

Database contains 200,000+ songs, 30,000+ artists, and 60,000+ albums (as of 2015), records begin in 1979.

## DATA AND META DATA

### META DATA

ARTIST NAME"  
SONG TITLE"  
ALBUM TITLE"  
GEO LOCATION"  
RELEASE DATE"

### SYNTAX

WORD COUNT"  
READING LEVEL"  
RHYME DENSITY"  
PERFECT RHYMES"

### SEMANTICS

SENTIMENT"  
KEYWORDS"  
PEOPLE"  
PLACES"



## SEMANTIC ANALYSIS

0.630683}, {Get money, 0.6296}, {young boy, 0.619167}, {young boys, 0.618254}, {Verse, 0.595722}, {Hook, 0.58902}, {games, 0.561187}, {phone, 0.557719}} {{James Fauntleroy, 0.785628}} {}  
0024  
236784 Drake 2011-11-15 negative -0.112603 Fuckin' Problems (A\$AP Rocky) (Ft. 2 Chainz & Kendrick Lamar) prod. by Noah 40 Shebib {{fucking problem, 0.958527}, {nigga, 0.631204}, {bad bitches, 0.597405}, {Kendrick Lamar, 0.590857}, {Hook, 0.586085}, {fucking boys, 0.57816}, {nigga nigga, 0.573237}, {shimmy shimmy ya, 0.566634}, {long dick nigga, 0.550949}, {Verse, 0.541806}, {Ooh baby, 0.536111}, {bad bitches, that, 0.533349}, {nigga act, 0.532877}, {dyke bitch, 0.532432}, {Brought her bitches, I, 0.532082}, {ASAP Rocky, 0.531873}, {girl, 0.530875}, {pep talk, 0.529023}, {long talkin, 0.528864}, {crystal ball, 0.528795}, {motherfucker, 0.528586}, {A.K.A. Benz-is-to-me-just-a-car, 0.528329}, {Halle Berry, 0.52829}, {pep rally, 0.528254}, {dead bodies, 0.52819}, {mm, 0.522417}, {beast, 0.518354}, {niggas, 0.517858}, {Ai, 0.515778}, {line, 0.513786}, {motherfuckers, 0.508632}, {hella, 0.507478}, {broods, 0.507235}, {huh, 0.507181}, {licorice, 0.50715}, {hallway, 0.507115}, {rappers, 0.507068}, {Holla, 0.507011}, {feelin, 0.506977}, {hallelujah, 0.506738}, {shit, 0.506701}, {bustin, 0.506578}, {crib, 0.506556}, {dudes, 0.506508}, {somebody, 0.506503}, {Vaca, 0.506429}, {girls, 0.506033}, {pop, 0.505834}, {finale, 0.505739}, {yo, 0.505714}} {{Kendrick Lamar, 0.932403}, {Ai, 0.598226}, {Halle Berry, 0.585222}, {Keith, 0.516405}, {ho, 0.486707}, {Vaca, 0.441223}} {{City, Cali, 0.498629}, {City, Atlanta, 0.440209}}

## SEMANTIC & SENTIMENT ANALYSIS

Artist	Date	SentimentType	SentimentScore	SongTitle	Keywords	People	Places
Drake	May 16, 2006	negative	-0.0333721	4 My Town (Birdman) (F	{(money, 0.991194)} {(Pastor Kerney T	{(City, Stunna, 0.9804}	
Drake	May 16, 2006	positive	0.0685615	1997 (New Old School) {(J	{(JWTM, 0.962811)} {(Kendrick Lamar	{(}	
Drake	May 16, 2006	positive	0.0049415	All Night Long (Miss Me	{(night, 0.978448)} {(Drake, 0.895111}	{(Country, Haiti, 0.478}	
Drake	May 16, 2006	positive	0.0152417	AM 2 PM (Ft. Nicklel	{(nigga yawning, 0.1}	{(Nick cop, 0.748}	{(City, Whitehaven, 0.4}
Drake	Nov 15, 2011	positive	0.0609035	Take Care	{(Hook, 0.931222)} {(Gil Scott-Heron	{(}	
Drake	Nov 15, 2011	negative	-0.074525	HYFR	{(hell yeah, 0.93299}	{(Lil Wayne, 0.93}	{(City, Atlanta, 0.57861}
Drake	Nov 15, 2011	negative	-0.0246082	The Ride	{(iAcá, -á, em, 0.98}	{(}	
Drake	Nov 15, 2011	negative	-0.0425638	Marvin's Room	{(Verse, 0.986045)} {(}	{(}	
Drake	Nov 15, 2011	negative	-0.089032	The Motto	{(nigga, 0.986628)} {(Franny, 0.81957}	{(City, New York City, 1}	
Drake	Nov 15, 2011	positive	0.0415183	Look What You've Don	{(black American d	{(Wayne, 0.95541}	{(City, Nebby, 0.78760}
Drake	Nov 15, 2011	positive	0.0394248	The Real Her	{(Verse, 0.969867)} {(Lil Wayne, 0.71}	{(City, Boise, 0.65104}	
Drake	Nov 15, 2011	positive	0.00900825	Underground Kings	{(city love, 0.90758}	{(Yo Gotti, 0.573}	{(City, New Orleans, 0.}
Drake	Nov 15, 2011	negative	-0.0271134	Crew Love	{(lotta friends, 0.95}	{(Harvard, 0.5018}	{(Country, Poland, 0.9}
Drake	Nov 15, 2011	positive	-0.112798	Practice	{(yeah, 0.974578)} {(}	{(Babygirl, 0.748}	{(}
Drake	Nov 15, 2011	positive	0.0281133	Cameras	{(camera, 0.964521}	{(}	
Drake	Nov 15, 2011	negative	-0.0229062	Buried Alive (Interlude)	{(Kendrick Lamar, 0}	{(Mr. OVOXO, 0.5}	{(City, Toronto, 0.7049}
Drake	Nov 15, 2011	negative	-0.060035	We'll Be Fine	{(gangsta shit, 0.97}	{(Drizzy, 0.73612}	{(City, Toronto, 0.4736}
Drake	Nov 15, 2011	positive	0.0340289	Make Me Proud	{(iAcá, -á, em, 0.94}	{(Dolly Parton, 0.}	{(City, Babylon, 0.6734}

## LOCATION DATA: KANYE WEST

SongId	Release Date	SongTitle	Place	Location	latitude	longitude
235692	2000-01-01	Better Than Yours	Chi-Town	Chicago, IL	41.8841515	-87.6324081
235691	2000-01-01	One More For Me	Long Beach	Long Beach, CA	33.7667198	-118.1923981
235878	2004-02-10	The New Workout Plan	Alabama	Alabama	32.7481995	-86.847908
235871	2004-02-10	Breathe In Breathe Out	Amsterdam	Amsterdam, Netherlands	52.3730888	4.8933001
235878	2004-02-10	The New Workout Plan	Cancun	Cancún, Mexico	21.0956306	-86.765934
235869	2004-02-10	Two Words	Chi-town	Chicago, IL	41.8841515	-87.6324081
235870	2004-02-10	Through The Wire	Chi-town	Chicago, IL	41.8841515	-87.6324081
235879	2004-02-10	All Falls Down	Chi-Town	Chicago, IL	41.8841515	-87.6324081
235871	2004-02-10	Breathe In Breathe Out	Ghana	Ghana	7.921	-1.204
235877	2004-02-10	Get Em High	Kansas	Kansas	38.4847107	-98.3802032
235871	2004-02-10	Breathe In Breathe Out	Mali	Mali	17.3579998	-3.526
235869	2004-02-10	Two Words	NY	New York, NY	40.71455	-74.0071182
235878	2004-02-10	The New Workout Plan	Rodeo Drive	Rodeo Dr, CA	34.0679207	-118.4016495
235869	2004-02-10	Two Words	United States	United States	39.4500008	-98.9079971
235732	2004-02-24	All Falls Down (Ft. Syleena Johnson)	Chi-Town	Chicago, IL	41.8841515	-87.6324081
235684	2005-01-01	Another Summer (213) (Ft. Latoya Will)	Chi-Town	Chicago, IL	41.8841515	-87.6324081

# Maximum Distance. Minimum Displacement.

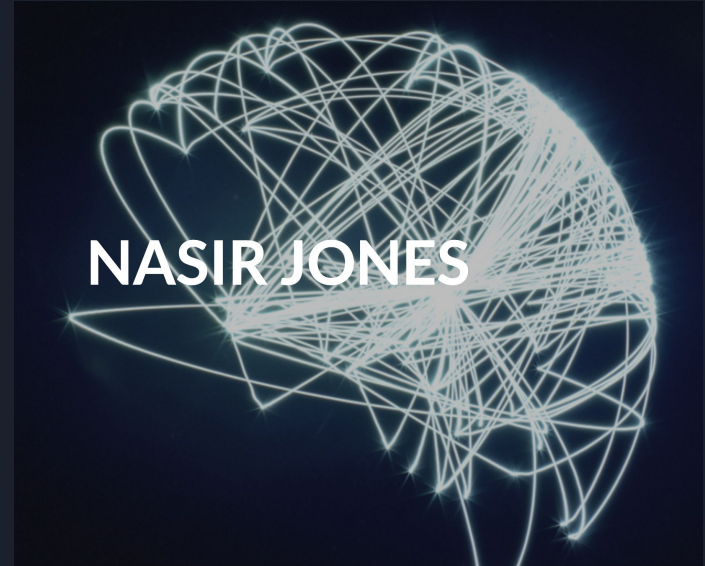
Mapper's Delight

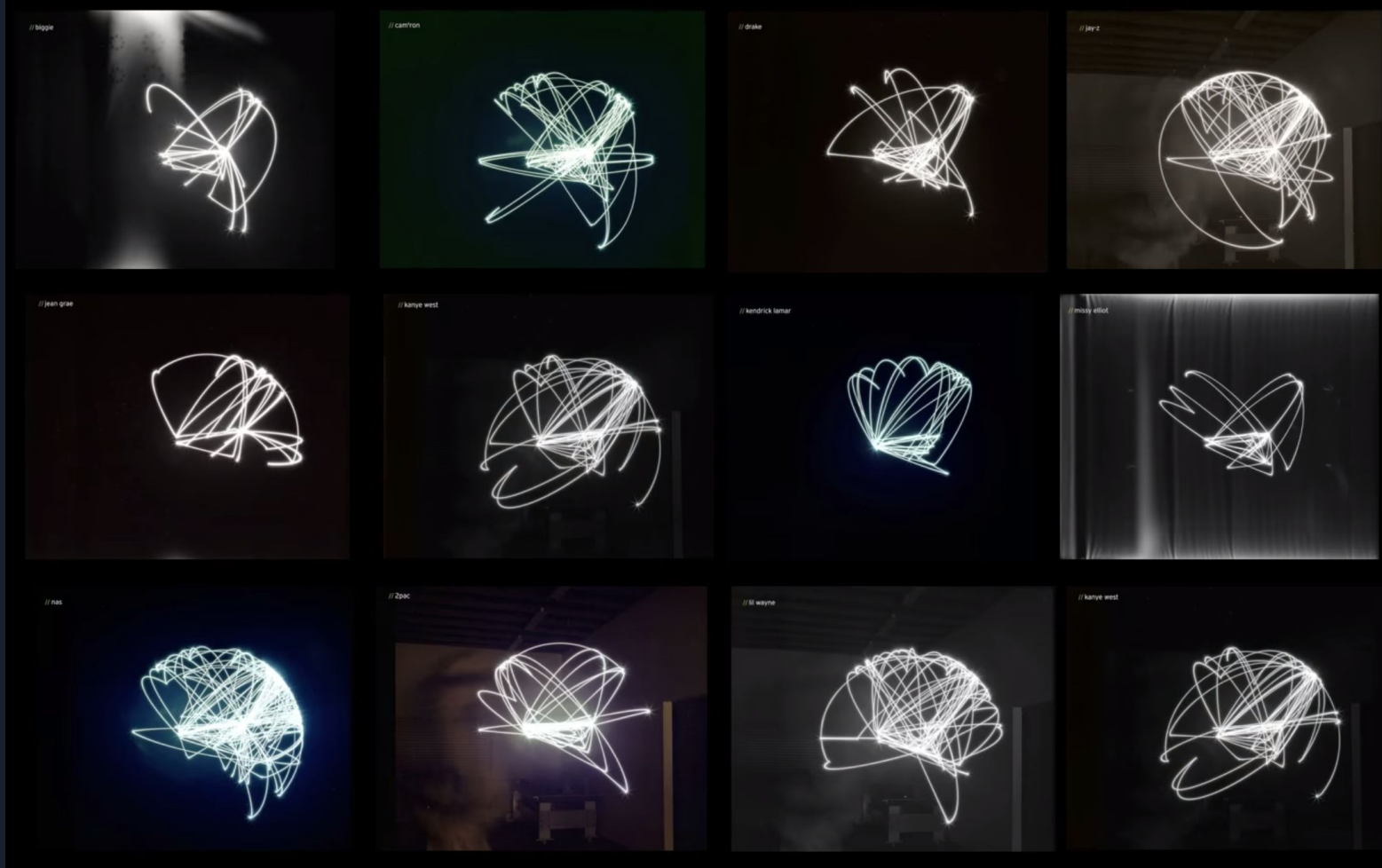
Drawing data from linguistic analysis of hip-hop,

Uses geographic mentions from complete bodies of work of 12 rappers using a language analysis database he invented.

Locations were translated to geographic coordinates, and then made into points that plot the movements of an industrial robot arm.

Each unique shape represents the global distance traveled by the content in each artist's lyrics.





<https://youtu.be/virTbOgnq4s?t=295>

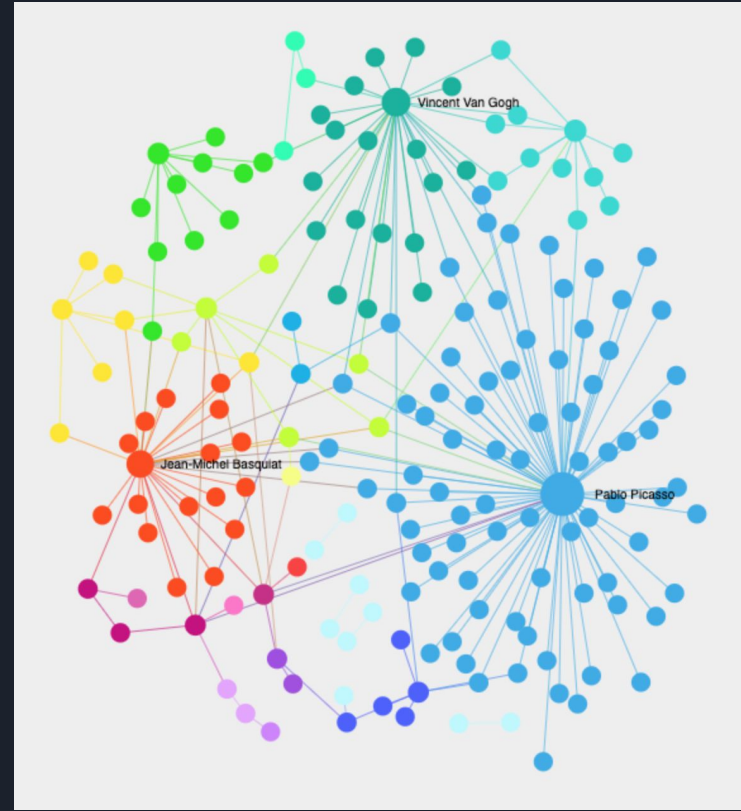
MAXIMUM DISTANCE. MINIMUM DISPLACEMENT.: KANYE WEST



# Picasso, Baby!

Network graph visualizing the connections between rappers and modern/contemporary painters that are name dropped in their music.

[Interactive visual](#)





# Tahir Hemphill


## Picasso, Baby.

Rapper's mentions of modern artists and contemporary artists from 1979 - 2014.

Submit A Correction [Here](#)

Pre-Order Poster [Here](#)

Best Viewed In Google Chrome

 [More about this visualisation](#)

### Legend:

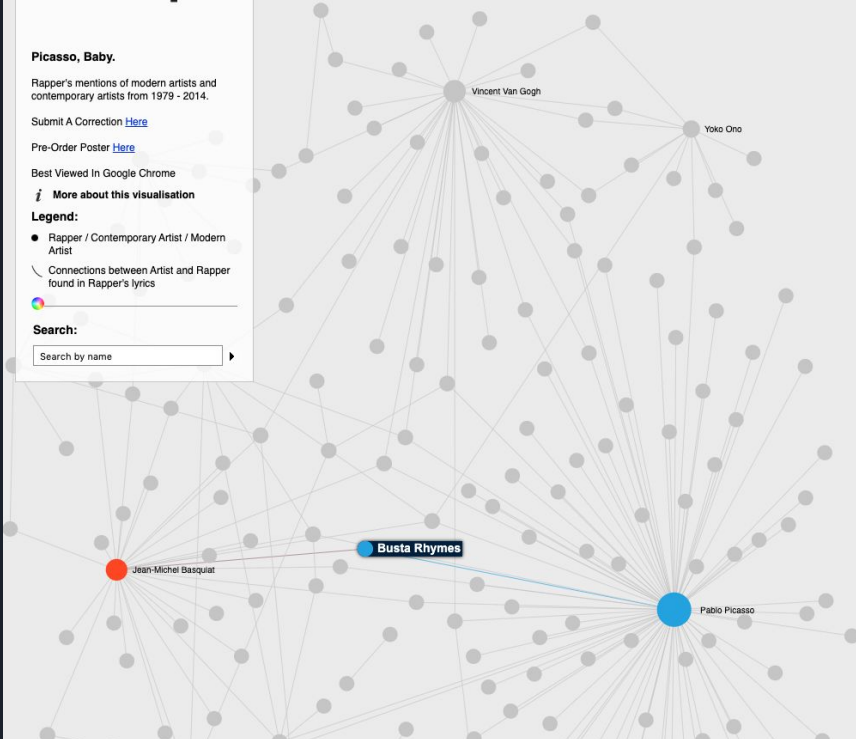
- Rapper / Contemporary Artist / Modern Artist

↘ Connections between Artist and Rapper found in Rapper's lyrics



### Search:

Search by name



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### Search:

Search by name



## Information Pane



### Busta Rhymes

Component ID: 0

Modularity Class: 7

Out-Degree: 2

Weighted Out-Degree: 2.0

Degree: 2

In-Degree: 0

Strongly-Connected ID: 36

Weighted In-Degree: 0.0

Weighted Degree: 2.0

### Connections:

Mutual (0)

No mutual links

Incoming (0)

No incoming links

Outgoing (2)

[Jean-Michel Basquiat](#)

[Pablo Picasso](#)



## Discussion:

Tahir Hemphill asks who the data about a certain culture belongs to - is there cultural appropriation within data?

Hemphill plays in a few different mediums but centers on one dataset. Are there any other designers/artists you can think of that follow a similar approach?