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CINE-GT: 1803 Metadata for Moving Image Collections
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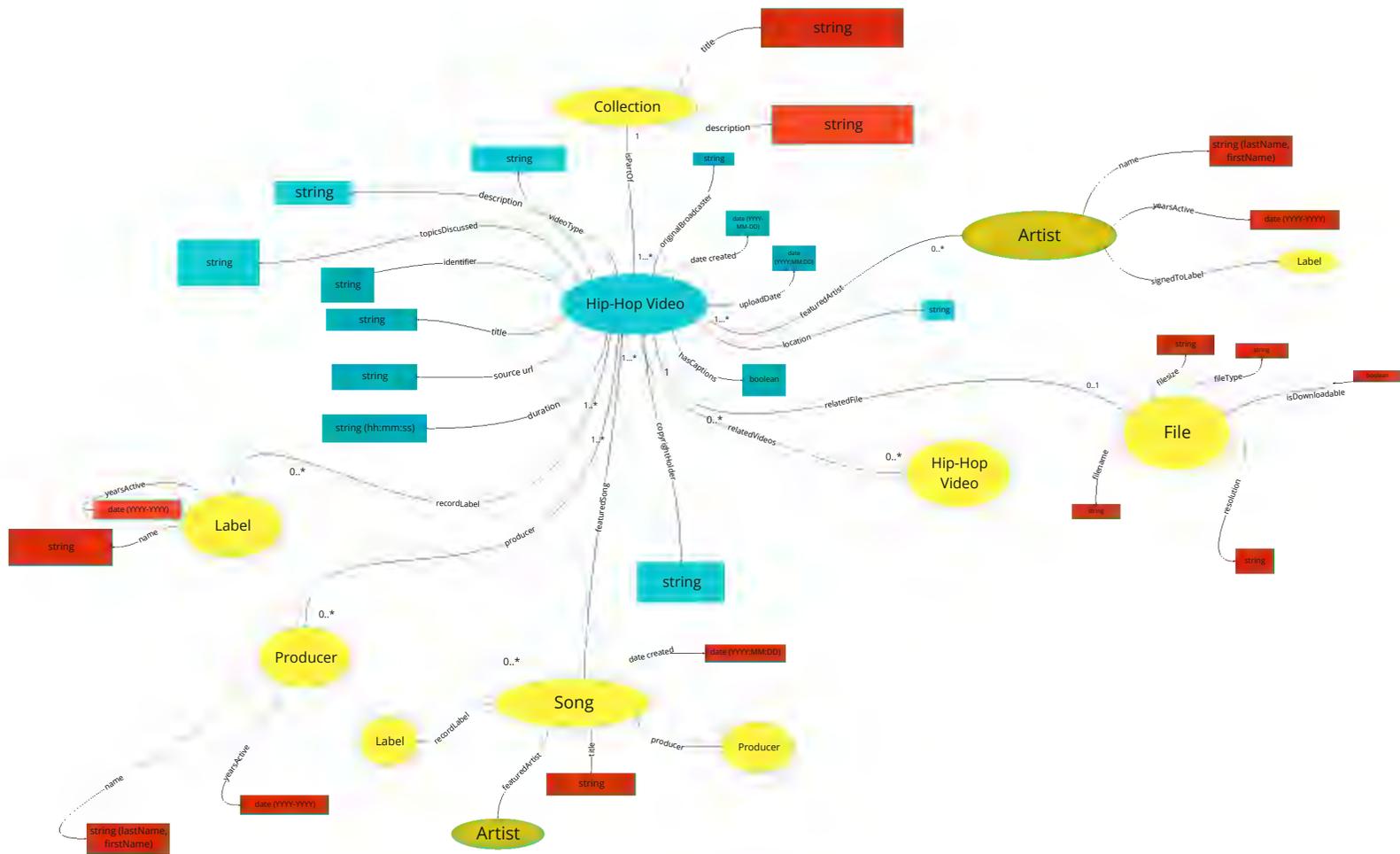
***The Golden Age of Hip Hop - An AudioVisual Collection of 90s NYC Rap Music*: A Collection Description**

  The Golden Age of Hip Hop - An AudioVisual Collection of 90s NYC Rap Music is a collection of digitized videos that provide a broad overview of the New York City Rap Music scene during the decade of the 90s, often considered NYC hip-hop's "Golden Age". Our collection encompasses fifteen videos from different platforms: YouTube, Vimeo, and the Internet Archive. These three platforms contain unique videos that help us provide a targeted overview of 90s NYC Hip-Hop. We are utilizing YouTube to primarily gain access to music videos from this era, Vimeo for access to 90s hip-hop TV shows and interviews, and the Internet Archive for access to an old MTV series called *Yo! MTV Raps*. Our videos range from 50 minutes to 3 minutes long and appear to be sourced from tape-based recordings of live TV productions.

  The scope of our collection is focused, providing a concentrated snapshot of the 90s NYC rap music scene. When we conceived the collection, we felt that limiting the audio-visual items to those works which were produced in New York City in the 90s would provide a more educational oversight of the history of rap music to prospective users. However, while the scope of our collection is focused on 90s NYC hip-hop, our TV show episodes, music videos, and interviews are meant to provide a general overview of this moment of time, hopefully convincing the user to dive deeper into 90s NYC hip-hop.

  The value of our collection can be assessed in many different ways. On a monetary level, the videos featured (particularly the music videos) can be considered financially valuable intellectual property. TV shows such as *Rap it Uptown* seems to be independently produced, the music from the music videos are owned by Major and Independent Record Labels, while MTV's *Yo! MTV Raps* is assuredly valuable intellectual property for MTV. However, the collection's greatest value is in it its cultural and historical relevance. Many of the recordings are clearly taken from tape-based sources, and therefore the digitized versions of these recordings might be preservation-level copies. Besides these reasons, the history of hip hop in America and internationally is an important educational subject which deserves more attention. This collection is valuable because it reflects the diversity of the New York hip hop scene and can be a gateway into further knowledge.

  A diverse group of users could make use of our collection. The first user is someone middle-aged who simply has a love for reminiscing about 90s hip-hop, a scene that they were apart of. The second user could be a PHD student who is studying the history of Rap music in America at Harvard University. The third user could be a filmmaker looking to make a documentary film about 90s NYC hip-hop. But beyond these potential users, we believe that our collection could serve a number of other people from various backgrounds and with different research interests.

Sarah Hartzell, Kirk Mudle, and William Plotnick
CINE-GT: 1803 Metadata for Moving Image Collections
Instructor: Shawn Averkamp
Revised March 31, 2021

Business Rules: '90s NYC Hip-Hop Collection Data Model

Our data model describes a **Hip-Hop Video** in the **Collection** titled *The Golden Age of Hip Hop - An AudioVisual Collection of 90s NYC Rap Music*. In this model, a **Hip-Hop Video** is a digitized moving image hosted on a public web platform that documents the culture of the 1990's NYC Hip-Hop scene. Hip-Hop Videos may be associated with a **File** that was uploaded to and is accessible through a platform. A Hip-Hop Video may feature zero or multiple **Songs** if they are performed or played in part or in whole in the video. Additionally, Hip-Hop Videos may be associated with zero or multiple **Agents** through different creative and rights-related relationships. Potential Agents in our model include **Labels** and **Producers** associated with the content in a Hip-Hop Video, and any **Artists** featured in a Hip-Hop Video. Likewise, a Song depicted in a Hip-Hop Video may have its own distinct relationship to any of these three Agent types; a Song may feature one or more Artists, may have been released under one or more record Labels, and may have one or more Producers. Finally, a Hip-Hop Video may be related to zero or many other Hip-Hop Videos in the Collection through shared properties or Agents. For example, a music video of "By the Time I Get to Arizona" would be linked to a separate video featuring an interview with Chuck D, the song's writer and performer.

A **Hip-Hop Video** should have the minimum descriptive properties of title, identifier, source url, duration, upload date, and type (such as music video, television program, or interview). When applicable, a Hip Hop Video may have the additional descriptive properties of original broadcaster (such as MTV), current copyright holder, original creation date, the boroughs of NYC depicted in the video, and topics discussed within the video. A **File** should always have the descriptive properties of name, size, type, resolution, and its availability for download.

The entities, relationships, and properties in our model support the needs of our anticipated users by providing detailed information about the artistic content, historical context, and the potential use of each Hip-Hop Video. The model illustrates when a Hip-Hop Video features Agents (artists, record labels, and producers) and Songs and links separate videos that share related content. It also describes contextual information about the creation and publication of each video, such as the station and date of its original creation and the boroughs where certain videos were shot. This descriptive metadata benefits users hoping to explore the collection as a historical record, whether it be for the purpose of researching or reminiscing.

Finally, the technical and use metadata (file size, type, and resolution) about each Hip-Hop Video's File tells users how they can access and repurpose videos in the future. A user hoping to replay Hip-Hop Videos for recreational listening and viewing will need to know the quality and technical specifications of the original File before attempting to download it. This same technical metadata will be important for users hoping to repurpose original Hip-Hop Videos into different contexts, such as in video editing, presentation, or video-conferencing software. Detailed rights information (such as copyright holders and music licenses) about the content of each Video also provides users with vital information about their possible uses.

Sarah Hartzell, Kirk Mudle, William Plotnick

The Golden Age of Hip Hop - An AudioVisual Collection of '90s NYC Rap Music vocabulary

"The Golden Age of Hip Hop - An AudioVisual Collection of '90s NYC Rap Music" is a collection of digitized videos that seeks to preserve the history of '90s New York City hip-hop and make a collection of significant historical videos accessible to all interested individuals. The scope of the collection is focused on fifteen videos produced in the 1990s in New York City. This collection provides a concentrated snapshot of the '90s NYC rap music scene, rather than an all-encompassing and broad historical view. As something of a time capsule for this era, the collection holds significant cultural and historical value. The videos can serve as a point of entry for people looking to learn more about hip-hop from this decade, and they can be read as historical texts by researchers. From a preservation perspective, the videos likely originated on tape-based formats, so the digital versions may be the best -- or only -- surviving copy. On the whole, the Golden Age of Hip-Hop is an important part of American history that deserves to be studied and preserved. This collection is valuable because it reflects the diversity of the New York City hip-hop scene and can be a gateway into further knowledge.

Users of this collection can run the gamut of educational backgrounds, research experience, and desired results. Overall, the collection will need to have robust searchability for users so that they can pinpoint specific videos or narrow the collection to certain eras or subjects. To accomplish this, we focused largely on descriptive metadata, while addressing the basic technical and structural metadata needed to fully utilize the videos. For example, we added several entities that will allow the user to search for specific Artists, Producers, and Labels. Likewise, we added properties to the Hip-Hop Video class for more refined searches of content: Video Type and Topics Discussed can filter videos that are interviews about music video production, for example. Technical metadata like the resolution of the video file and whether or not it is downloadable will aid in decision making on how to utilize the video in any projects the user is working on.

[To view this model in more detail, visit this link.]

Reading this profile

The following fields are used to describe each class and property included in the model.

Property name:	Name
Label	The label for the property name
Definition	The definition of the property and how it is used.
Obligation	Specifies if the property is required, recommended, or optional (Required, Recommended, Optional).
Repeatability	Specifies if the property can be used more than once (Yes | No).
Range	The expected data type for the value of the property (string | integer | date | boolean | URL | entity).
Controlled vocabulary	The recommended controlled vocabulary to be used for the value of the property, if applicable.
Domain	The class(es) this property may be used with.

Notes	Any additional information about the property, such as input conventions.
Example	An example of the property in use.

List of Model Elements

Name	Type		Name	Type
Collection	Class		recordLabel	Property
Video	Class		yearsActive	Property
Hip-Hop Video	Subclass of Video		signedToLabel	Property
File	Class		fileType	Property
Song	Class		isDownloadable	Property
Agent	Class		resolution	Property
Artist	Subclass of Agent		title	Property
Label	Subclass of Agent		description	Property
Producer	Subclass of Agent		dateCreated	Property
topicsDiscussed	Property		identifier	Property
videoType	Property		sourceURL	Property
originalBroadcaster	Property		duration	Property
uploadDate	Property		fileName	Property
featuredArtist	Property		fileSize	Property
location	Property		relatedFile	Property
relatedVideos	Property		isPartOf	Property
copyrightHolder	Property		HipHopFile	Subclass of File
featuredSong	Property			
producer	Property			

Classes and properties

Class	Collection
Wikibase label	miap:Collection
Definition	An aggregation of one or more moving image resources.

Property	has record
Wikibase label	miap:hasRecord
Definition	A video record that is part of this collection.
Obligation	Required
Repeatability	Repeatable
Datatype	Video (Item)
Controlled vocabulary	N/A
Domain	Collection
Notes	
Example	

Class	Video
Wikibase label	miap:Video
Definition	An intellectual description of a moving image resource.

Class	Hip-Hop Video (Q11)
Wikibase label	hiphop:HipHopVideo
Subclass of	miap:Video

Definition	A digitized moving image documenting the culture of the 1990's NYC Hip-Hop scene.

Property	Is part of
Wikibase label	miap:isPartOf
Definition	A collection this record is a part of
Obligation	Required
Repeatability	Repeatable
Datatype	Collection (Item)
Controlled vocabulary	N/A
Domain	Video, Hip-Hop Video
Notes	
Example	

Property	title
Wikibase label	miap:title
Definition	The title of the collection, video, or song.
Obligation	Required
Repeatability	Not repeatable
Datatype	String
Controlled vocabulary	N/A
Domain	Collection, Hip-Hop Video, Song
Notes	For videos, the title should be identical to the title on the streaming/hosting platform.
Example	"T.O.N.Y."

Property	description
Wikibase label	miap:description
Definition	A description of the video or collection.
Obligation	Optional
Repeatability	Not repeatable
Datatype	String
Controlled vocabulary	N/A
Domain	Collection, Hip-Hop Video
Notes	
Example	"Tape 9 of a 14 DVD set of *Yo! MTV Raps* circulated by tape traders, originally sourced from fan-recorded PAL videotapes."

Property	date created
Wikibase label	miap:dateCreated
Definition	The date the video content was created.
Obligation	Recommended
Repeatability	Not repeatable
Datatype	String
Controlled vocabulary/format	ISO 8601 (yyyy-mm-dd)
Domain	Hip-Hop Video, Song
Notes	
Example	1994-05-23

Property	source url
Wikibase label	miap:sourceUrl

Definition	URL of the streaming video content
Obligation	Required
Repeatability	Not repeatable
Datatype	String
Controlled vocabulary/format	URL
Domain	Hip-Hop Video
Notes	
Example	https://archive.org/details/1991.00.00-yo-mtv-raps-tape-09-of-14-1991

Property	identifier
Wikibase label	miap:identifier
Definition	A unique identifier for the video
Obligation	Required
Repeatability	Not repeatable
Datatype	String
Controlled vocabulary/format	NYC####
Domain	Hip-Hop Video
Notes	Assigned by collection managers upon a video's accession into the collection.
Example	"NYC0001"

Property	duration
Wikibase label	miap:duration
Definition	The duration of the video.
Obligation	Required

Repeatability	Not repeatable
Datatype	String
Controlled vocabulary/format	hh:mm:ss
Domain	Hip-Hop Video
Notes	
Example	02:56:29

Property	Topics discussed (P42)
Wikibase label	hiphop:topicsDiscussed
Definition	Subjects or topics discussed within the video
Obligation	Optional
Repeatability	Repeatable
Datatype	String
Controlled vocabulary/format	Library of Congress subject headings
Domain	Hip-Hop Video
Notes	
Example	"Music videos--Production and direction"

Property	Video Type (P43)
Wikibase label	Hiphop: videoType
Definition	Type of content in the video
Obligation	Required
Repeatability	Repeatable
Datatype	String
Controlled vocabulary/format	Locally controlled vocabulary
Domain	Hip-Hop Video

Notes	CV includes: Interview, Music Video, TV Segment, Home Movie
Example	"Interview"

Property	Original Broadcaster (P52)
Wikibase label	hiphop:originalBroadcaster
Definition	For videos that aired on television, the channel or network that originally aired them
Obligation	Recommended
Repeatability	Not repeatable
Datatype	String
Controlled vocabulary/format	Controlled vocabulary
Domain	Hip-Hop Video
Notes	CV: https://en.wikipedia.org/wiki/List_of_United_States_pay _television_channels
Example	"VH1"

Property	Upload date (P53)
Wikibase label	hiphop:uploadDate
Definition	Date that the video in the collection was uploaded to the streaming/hosting site
Obligation	Recommended
Repeatability	Not repeatable
Datatype	Date
Controlled vocabulary/format	ISO 8601 YYYY-MM-DD
Domain	Hip-Hop Video
Notes	

Example	2015-04-30

Property	Featured artist (P54)
Wikibase label	hiphop:featuredArtist
Definition	Any artists depicted in the video
Obligation	Recommended
Repeatability	Repeatable
Datatype	Artist
Controlled vocabulary/format	
Domain	Hip-Hop Video, Song
Notes	
Example	

Property	featuredSong (P58)
Wikibase label	hiphop:featuredSong
Definition	The name of the song being played in the video
Obligation	Optional
Repeatability	Repeatable
Datatype	Song
Controlled vocabulary	
Domain	Hip-Hop Video
Notes	
Example	

Property	Location (P55)
Wikibase label	hiphop:location
Definition	NYC borough depicted in the video
Obligation	Optional
Repeatability	Repeatable
Datatype	String
Controlled vocabulary/format	Manhattan, The Bronx, Queens, Brooklyn, Staten Island
Domain	Hip-Hop Video
Notes	
Example	"Manhattan"

Property	Related Videos (P56)
Wikibase label	hiphop:relatedVideos
Definition	Other videos in the collection that relate to this one, such as videos in series or music videos off the same album
Obligation	Optional
Repeatability	Repeatable
Datatype	URI
Controlled vocabulary/format	Must be another Hip-Hop Video in the collection
Domain	Hip-Hop Video
Notes	
Example	[for "Yo! MTV Raps - Tape 09 of 14", URL pointing to "Yo! MTV Raps - Tape 05 of 14"]

Property	Copyright holder (P57)
Wikibase label	hiphop:copyrightHolder

Definition	Current copyright holder of the video
Obligation	Recommended
Repeatability	Not repeatable
Datatype	String
Controlled vocabulary/format	Last name, First name (if applicable)
Domain	Hip-Hop Video
Notes	
Example	"Smith, John" ; "Penalty Recordings"

Property	relatedFile
Wikibase label	miap:relatedFile
Definition	A digital file representing the content of the video
Obligation	Optional
Repeatability	Repeatable
Datatype	File (Item)
Controlled vocabulary	
Domain	Hip-Hop Video
Notes	
Example	

Class	File
Wikibase label	miap:File
Definition	A digital file representing the content.

Class	Hip-Hop File
Wikibase label	hiphop:HipHopFile
Subclass of	miap:File
Definition	hiphop:HipHopFile

Property	filename
Wikibase label	miap:filename
Definition	The name of the file (with extension).
Obligation	Required
Repeatability	Not repeatable
Datatype	String
Controlled vocabulary	Unique identifier of Hip Hop Video + extension
Domain	File, Hip Hop File
Notes	
Example	"NYC0001.mp4"

Property	filesize
Wikibase label	miap:filesize
Definition	The size of the file (in MB)
Obligation	Required
Repeatability	Not repeatable
Datatype	integer
Controlled vocabulary	N/A
Domain	File, Hip Hop File
Notes	

Example	"11.5"

Property	resolution
Wikibase label	Hiphop:resolution
Definition	The resolution of the video
Obligation	Recommended
Repeatability	Not repeatable
Datatype	String
Controlled vocabulary	"1080p" "720p" "360p" "240p"
Domain	Hip-Hop File
Notes	
Example	"1080p"

Property	fileType
Wikibase label	miap:fileType
Definition	The format of Video file that can be downloaded.
Obligation	Required
Repeatability	Not repeatable
Datatype	string
Controlled vocabulary	CV: https://en.wikipedia.org/wiki/Video_file_format
Domain	Hip-Hop File
Notes	
Example	".mp4"

Property	IsDownloadable

Wikibase label	Hiphop:IsDownloadable
Definition	Whether or not the video page provides the option to download the video as a file
Obligation	Required
Repeatability	Not repeatable
Datatype	Boolean
Controlled vocabulary	"Yes/No"
Domain	Hip-Hop File
Notes	
Example	"Yes"

Class	Song (Q12)
Wikibase label	hiphop:Song
Definition	A musical composition depicted in part or in whole in a video.

Property	producer
Wikibase label	hiphop:producer
Definition	The name of the producer who collaborated on the music for the song or video
Obligation	Recommended
Repeatability	Repeatable
Datatype	Producer
Controlled vocabulary	N/A
Domain	Song, Hip-Hop Video
Notes	

Example	

Class	Agent
Wikibase label	miap:Agent
Definition	A person or organization related to a video.

Class	Artist (Q13)
Wikibase label	hiphop:Artist
Subclass of	miap:Agent
Definition	An individual or group who contributes to the creation of songs.

Property	signedToLabel
Wikibase label	hiphop:signedToLabel
Definition	The name of the record label that the artist is or was signed to.
Obligation	Recommended
Repeatability	Repeatable
Datatype	Label
Controlled vocabulary	
Domain	Artist
Notes	
Example	

Property	yearsActive
Wikibase label	hiphop:yearsActive

Definition	The years of activity of the specific artist, label or producer
Obligation	Recommended
Repeatability	Repeatable
Datatype	String
Controlled vocabulary	"YYYY-YYYY"
Domain	Artist, Label, Producer
Notes	
Example	"1965-2000"

Class	Producer (Q15)
Wikibase label	hiphop:Producer
Subclass of	miap:Agent
Definition	An individual or organization that produces music for videos or songs.

Class	Label (Q14)
Wikibase label	hiphop:Label
Subclass of	miap:Agent
Definition	An organization that trademarks, publishes, manufactures, or distributes sound recordings.

Property	name
Wikibase label	miap:name
Definition	The name of an Agent
Obligation	Required

Repeatability	Repeatable
Datatype	String
Controlled vocabulary/format	Last Name, First Name (if applicable).
Domain	Agent, Artist, Producer, Label
Notes	
Example	"Capone-N-Noreaga" ; "Doe, Jane" ; "Sub-Pop"

Property	recordLabel
Wikibase label	hiphop:recordLabel
Definition	The name of the record label that released the hip hop video or song
Obligation	Optional
Repeatability	repeatable
Datatype	Label
Controlled vocabulary/format	N/A
Domain	Hip-Hop Video, Song
Notes	
Example	

New video 1: https://www.youtube.com/watch?v=VC4ORS5n9Hg

New video 2: https://www.youtube.com/watch?v=R0IUR4gkPIE

The Golden Age of Hip Hop Wikibase

Cataloguing Guidelines for The Golden Age of Hip-Hop Collection

Contents:
1. Directions for adding a HipHipVideo Item
2. Directions for adding Song Items
3. Directions for adding Agent Items: Artists, Labels, and Producers
4. Directions for adding HipHopFile Items

1. Directions for adding a HipHipVideo Item

1.1 isPartOf (Required)

Link to Collection record: Q40

1.2 Title (Required)

Transcribe title exactly as it is listed on the source platform.

1.3 Description (Required)

Copy/paste description from video. If none exists, describe video to the best of your ability. Do not include text in original description that does not pertain to the video at hand, as in information about the channel, social media links, contact info, or links to other videos.

1.4 Identifier (Required)

Assign the video an identifier following the NYC#### format with the next unused sequential number.

1.5 sourceURL (Required)

Copy/paste source URL of video

1.6 dateCreated

Write the date the original content was created following the YYYY-MM-DD, MM-DD, or YYYY format.

1.7 uploadDate (Required)

Record the date the video was uploaded to the platform following the ISO 8601 YYYY-MM-DD format.

1.8 Duration (Required)

Use duration of entire video from platform, including color bars, credits, etc

1.9 topicsDiscussed

Use Library of Congress subject headings as specifically as possible. Does not apply to music videos.

1.10 videoType

Record the type of video using controlled vocabulary: Music video, Interview, Home movie, TV segment

1.11 originalBroadcaster

Record original broadcaster if indicated by the title, description, or logos depicted in the video. Controlled vocabulary:
https://en.wikipedia.org/wiki/List_of_United_States_pay_television_channels

1.12 Location

If determinable by contents or descriptions of videos, record borough of NYC depicted in the video. Controlled vocabulary: Manhattan, The Bronx, Queens, Brooklyn, Staten Island

1.13 relatedVideos

Applies to videos from the same series, or any other video related by an Agent, Song, or topic. (Not required)

1.14 copyrightHolder

Use information provided by YouTube or another reputable source to determine the copyright holder.

1.15 featuredSong

See section 2

1.16 featuredArtist

See section 3.1

1.17 Producer

See section 3.2

1.18 recordLabel

See section 3.3

1.19 relatedFile (Required)

See section 4.

2. Directions for adding Song Items

Search Wikibase items for any Songs featured in the video. If there is no item already, create a new wikibase item for all Songs in the video.

2.1 dateCreated

Record the date the original song was released following the YYYY-MM-DD, MM-DD, or YYYY format. Release information can be taken from an authoritative source such as Wikipedia, Discogs, or Genius.com

2.2 recordLabel

Search Wikibase items for Label that released the song. If there is no item already, see directions for Label. To determine the label that released the song, use song credits within the video if available. If not available, use Wikipedia or Discogs.

2.3 featuredArtist (Required)

Search Wikibase items for Artist that is featured on the Song. If there is no item already, create a new wikibase item for all Artists on the Song. If Artist is a group, it is at the cataloguer's discretion whether to create Artist items for group members individually.

2.4 Title (Required)

Use song title as listed on official album track listing.

2.5 Producer

Search Wikibase items for Producer that produced the Song. If there is no item already, create a new wikibase item for all Producers on the Song.

3. Directions for adding Agent Items: Artists, Labels, and Producers

3.1. Artist

Search Wikibase items for any Artists in the video. If there is no item already, create a new wikibase item for solo or group Artists in the video.

3.1.1 Name (Required)

Assign the Artist name from an authoritative source such as Wikipedia, Discogs, or Genius.com or the Library of Congress. If an artist used multiple names professionally, use best judgment to choose the most recognizable or broadly used name. Optionally, record aliases as additional name properties for each artist.

3.1.2 yearsActive

Use Wikipedia to determine years active, if available. If not listed, use the year of first album release and most recent album release. Use the following format: (YYYY-YYYY) or (YYYY-), if still active

3.1.3 signedToLabel

Search Wikibase items for Label that the Artist was/is signed to. If there is no item already, see directions for Label. Use Wikipedia or Discogs to find all labels the artist has been signed to. List each label, not just the current label.

3.2. Label

Search Wikibase items for any Labels associated with a Song or Artist in the video. If there is no item for the label already, create a new wikibase item.

3.2.1 yearsActive

Use Wikipedia to determine years active, if available. If not listed, use the year of first album release and most recent album release. Use the following format: (YYYY-YYYY) or (YYYY-), if still active

3.2.2 Name (Required)

Assign the Label a name from an authoritative source such as Wikipedia, Discogs, or Genius.com or the Library of Congress.

3.3 Producer

Search Wikibase items for any Producers associated with a Song or Artist in the video. If there is no item for the Producer already, create a new wikibase item.

3.3.1 Name (Required)

Assign the Producer name from an authoritative source such as Wikipedia, Discogs, or Genius.com or the Library of Congress. If a producer used multiple names professionally, use best judgment to choose the most recognizable or broadly used name. Optionally, record aliases as additional name properties for each artist.

3.3.2 yearsActive

Use Wikipedia to determine years active, if available. If not listed, use the year of first album release and most recent album release. Use the following format: (YYYY-YYYY) or (YYYY-), if still active

4. Directions for adding HipHopFile Items

Create an item for the original video file with its extension.

4.1 FileName (Required)

File name should be the identifier of the video plus the file extension.

4.2 isDownloadable (Required)

Indicate whether video is downloadable from player, using the following: (Y/N)

4.3 Resolution (Recommended)

Indicate Video Resolution. Controlled vocabulary: 240p, 360p, 480p, 540p, 720p, 1080p, 2K, and 4K

4.4 File size (Required)

Measured in megabytes. Record just the number, not the unit of measurement.

4.5 File type (Required)

Controlled vocabulary: https://en.wikipedia.org/wiki/Video_file_format

Hip-Hop Video	PBCore	notes	MARC	notes	VRAcore	notes
miap:Collection	pbcoreDescriptionDocument			Collection will have to have its own MARC record; indicate that it is a collection with field 07 c	id= "(Q40)", Source = NYU MIAP	COLLECTION
miap:title	pbcoreTitle @titleType= "Collection"		245 $a $b	Field for collection record, not video record ; 2nd indicator = 3 ; $a "Golden Age of Hip-Hop" $b "An Audiovisual Collection of '90s NYC Rap Music" ; include $f	Title = The Golden Age of Hip Hop - An Audiovisual Collection of '90s NYC Rap Music, type=true, source = Youtube, Vimeo, Internet Archive, href = http://3.141.14.244:8181/wiki/Item:Q40	Title
miap:description	pbcoreDescription @descriptionType= "Collection"		520 $a	Field for collection record, not video record	description = "The Golden Age of Hip Hop - An Audiovisual Collection of '90s NYC Rap Music" is a collection of digitized videos that seeks to preserve the history of '90s New York City hip-hop and make a collection of significant historical videos accessible to all interested individuals. The scope of the collection is focused on fifteen videos produced in the 1990s in New York City.	Description
miap:hasRecord	n/a		630 $a	use title of each HipHopVideo as value	n/a	Relation
hiphop:HipHopVideo	pbcoreDescriptionDocument pbcoreAssetType = "Collection" pbcoreIdentifier			specify electronic resource in field 007 $a c $b r $d [color/blackandwhite] $f a	Worktype = digital video, vocab = (controlled Data Value vocab), refid = (Q40)	Work Type
miap:title	pbcoreTitle @titleType= "Hip-hop Video"		245 $a $b (if applicable)		title: Capone-N-Noreaga - T.O.N.Y. (Top Of New York), type = Video, pref = true, source = YouTube	Title
miap:description	pbcoreDescription @descriptionType= "Summary"		520	$2 indicate description sourced from streaming platform description	description = Official music video for Capone-N-Noreaga's song "T.O.N.Y.", source = YouTube	Description
miap:identifier	pbcoreIdentifier @source = "Hip-Hop Identifier"		035 $a		work, id = NYC0011, Hiphop, source = YouTube	Work, Collection, or IMAGE
miap:duration	pbcoreInstantiation/instantiationDuration	Duration gets mapped to each instantiation (file) within the video asset. Use HH:MM:SS.mmm format	306 $a	follow MARC formatting guidelines	measurements = 190, type = duration, Unit = min	Measurements
miap:sourceUrl	pbcoreInstantiation/instantiationDigital	Text "Original Video URL" would r	535 2 $a $d	url goes in $d I guess?	Source = Capone-N-Noreaga - T.O.N.Y. (Top Of New York), name = electronic, type = video, refid = https://www.youtube.com/watch?v=fYYJ6HFqlLI	Source
miap:dateCreated	pbcoreAssetDate @dateType = "published"	Use ISO 8601 format YYYY-MM-DD	033	if date of capture is known, use first indicator 0, otherwise use 1 for date of broadcast (release)	display = created 1990-2000, date type = creation, source = http://3.141.14.244:8181/wiki/Item:Q40, earliest date = 1990, latest date = 1999	
miap:rights	pbcoreRightsSummary/rightsSummary @source = "rightsstatements.org"		542 $l		rights = copyright holder(s), type = cop	RIGHTS
miap:isPartOf	pbcoreRelation/relationType = "Is Part Of" pbcoreRelation/relationIdentifier	relationIdentifier points to the parent collection XML	n/a	Record will appear as subject of collection record, but cannot be linked in the other direction.	Relation = from The Golden Age of Hip Hop - An Audiovisual Collection of '90s NYC Rap Music, type = relatedTo, relids = NYC0011.mp4 / Relation I type = Video, relids = (Q190), href = http://3.141.14.244:8181/wiki/Item:Q190	Must include infro for record and co
miap:relatedFile	pbcoreRelation @instantiationRelation pbcoreRelationIdentifier/"Hip-hop Filer	Text "Hip-hop Filename" would be	856	separate 856 entry from sourceURL; see HipHopFile for more information	Relation = from The Golden Age of Hip Hop - An Audiovisual Collection of '90s NYC Rap Music, type = relatedTo, relids = NYC0011.mp4	Relation
hiphop:topicsDiscussed	pbcoreSubject @sourceType = "topic", @source = "LOC Subject Headings"		650	$2 lcsh	Subject = TONY Video, term = Money, religion, New York, type = conceptTopic, Vocab = Choose between Data Values, Source = ID #	Data Values: recommend AAT, TGN, LCTGM, ICONCLASS, LCSH, LCNAF, Sears Subject Headings

Hip-Hop Video	PBCore	notes	MARC	notes	VRAcore	notes
hiphop:videoType	pbcoreSubject @sourceType = "topic", @source = "Hip-hop Video Type Vocabulary"		336	$2 locally controlled vocabulary	Subject = Capone-N-Noreaga - T.O.N.	Subject / data values AAT, TGN, LCTGM, ICONCLASS, LCSH, LCNAF, Sears Subject Headings
hiphop:originalBroadcaster	pbcorePublisher/publisher publisherRole @source = "Wikipedia L URL for Controlled Vocabulary:		260 $b		Subject = MTV, term = TV Station type = otherTopic, Vocab = Choose between Data Values, Source = ID #	Data Values: recommend AAT, TGN, LCTGM, ICONCLASS, LCSH, LCNAF, Sears Subject Headings
hiphop:uploadDate	PbcoreAssetDate @dateType = "published"		518	$o "Uploaded to streaming platform" $p [platform] $d [date]	Date = created 18 June 2018, type = publication, href = https://www.youtube.com/watch?v=fYYJ6HFqlLI	DATE
hiphop:featuredArtist	pbcoreContributor/contributor pbcoreContributor/contributorRole= "Artist"		600	Use 600 field in place of HipHop:Artist entity. See below for subfields.	Agent = Capone n Noreaga, Name = Capone n Noreaga, type = personal	AGENT
hiphop:location	pbcoreCoverage/coverage coverage source= "Hip hop location CV" annotation = "Burroughs" coveragetype="spatial"		651	$2 locally controlled vocabulary	Location/display = New York, name = New York City, type = geographic, vocab = "NYC", refid = #,	refid for New York City = user create # ID, New York City vocab = NYC
hiphop:relatedVideos	pbcoreRelation/relationType = "Is Rela Text "Hip Hop Video URL" would b		630	Use title of HipHopVideo as value.	relation = partnerInSetWith: "Mobb Deep - Survival of the Fittes", type = largerContextFor, relids = ID #, href = http://3.141.14.244:8181/wiki/Item-Q291	Can use controlled vocabulary to create relations - see "relation (continued)" in element descriptions sheet ->https://www.loc.gov/standards/vracore/VRA_Core 4_Element_Description.pd
hiphop:copyrightHolder	pbcoreRightsSummary		542 $d		Rights = Tommy Boy Music LLC, notes = *include contact info if available*, rightsHolder = Tommy Boy Music, text = © Tommy Boy Music	Restricted schema data values for the rights type attribute: copyrighted, publicDomain,
hiphop:featuredSong	pbcoreRelation/relationType = "Is Rela Text "Song title" would be replaced		630	See HipHop:Song below for more information.	See HipHop:Song below for more information.	
hiphop:producer	pbcoreContributor/contributor pbcoreContributor/contributorRole= "Producer"		600	Use 600 field in place of HipHop:Producer entity. See below for subfields.	Agent = DJ Premier, Name = Christopher Edward Martin, type = personal	AGENT
hiphop:recordLabel	"pbcorePublisher/publisher "pbcorePublisher/publisherRole= "Distributor"		610	Use 610 field in place of HipHop:Label entity. See below for subfields.	Agent = Penalty Recordings, Name = Penalty Recordings, type = corporate	AGENT
miap:Agent		Agent names will be used as values in place of Agent entity, where applicable	600 or 610	600 for producers and artists, 610 for labels	Follow agent Field for all entities that fall under the agent category.	AGENT
miap:name			$a		See above	AGENT
hiphop:Artist	pbcoreContributor/contributor pbcoreContributor/contributorRole= "Artist"		600	$e mus, prf, sng	See above	AGENT
hiphop:yearsActive	contributor @timeannotation= "YYYY-YYYY"		$d		Date = created 1995, type = performance, earliest date = 1995, latest date = 2013	DATE
hiphop:signedToLabel	pbcorePublisher/publisherpbcore publisher/publisherRole= "Distributor"		$g		Date = comissioned 1996, type = comission	DATE
hiphop:Producer	pbcoreContributor/contributor pbcoreContributor/contributorRole= "Producer"		600	$e pro	See miap: Agent	AGENT
hiphop:yearsActive	contributor @timeannotation= "YYYY-YYYY"		$d		Date = created 1987, type = performance, earliest date = 1987	DATE
hiphop:signedToLabel	pbcorePublisher/publisherpbcore publisher/publisherRole= "Distributor"		$g		Date = comissioned 1989, type = comission	AGENT
hiphop:Label	pbcorePublisher/publisher pbcorePublisher/publisherRole= "Distributor"		610	$e prn	See miap: Agent	AGENT
hiphop:yearsActive	publisher @timeannotation= "YYYY-YYYY"		$g		Date = created 1995, type = creation, earliest date = 1995	DATE
hiphop:Song			630	Use name of song as value for 630 in HipHopVideo record, and create separate MARC record for the song itself if none exists	title: TONY, type = song, pref = true, source = YouTube, href = https://www.youtube.com/watch?v=fYYJ6HFqlLI	Title
miap:title	pbcoreTitle @titleType= "Song"		245	Field for song record, not video record	title: TONY, type = song, pref = true, source = YouTube, href = https://www.youtube.com/watch?v=fYYJ6HFqlLI	title

Hip-Hop Video	PBCore	notes	MARC	notes	VRAcore	notes
hiphop:recordLabel	"pbcorePublisher/publisher "pbcorePublisher/publisherRole= "Distributor"		610	Field for song record, not video record; See HipHop:Label for subfields	Agent = Penalty Recordings, Name = Penalty Recordings, type = corporate	AGENT
hiphop:featuredArtist	pbcoreContributor/contributor pbcoreContributor/contributorRole= "Artist""		600	Field for song record, not video record; See HipHop:Artist for subfields.	Agent = Capone n Noreaga, Name = Capone n Noreaga, type = personal	AGENT
hiphop:producer	pbcoreContributor/contributor pbcoreContributor/contributorRole= "Producer"		600	Field for song record, not video record; See HipHop:Producer for subfields	Agent = DJ Premier, Name = Christopher Edward Martin, type = personal	AGENT
miap:dateCreated	@Datetype = released	Use ISO 8601 format YYYY-MM-I	033	Field for song record, not video record	Date = created 11 February 1997, type = publication, href = https://www.youtube.com/watch?v=fYYJ6HFqlLI	DATE
hiphop:HipHopFile	pbcoreInstantiation	Within the video pbcoreDescriptio	347	$a "video file"	Related = From Hiphopsong, type = partOf, href = https://www.youtube.com/watch?v=fYYJ6HFqlLI	relation
miap:filesize	pbcoreInstantiation/instantiationFileSize @unitsOfMeasure = "MB"		$c		Measurements = file size #, type = file size, unit = mb	Measurements
miap:filename	pbcoreInstantiation/instantiationIdentifier		$1	include entire file path, not just name as listed in Hip Hop schema	Title = NYC0011.mp4 type=true, source = Youtube, Vimeo, Internet Archive, href = http://3.141.14.244:8181/wiki/Item:Q40	TITLE
miap:fileType	pbcoreInstantiation/pbcoreDigital @source="IANA MIME Media types"	Map file extension to the MIME type referenced on http://www.iana.org/assignments/media-types/media-types.xhtml#video	$b	Express as MIME type	Description = The file type is an MP4, source = http://3.141.14.244:8181/wiki/Item:Q222	Description
hiphop:isDownloadable	instantiationDigital @annotation = "Is d	Convert "no" values to "Is not downloadable" and convert "yes" values to "Is downloadable"	506 $a	yes = "File is available for download" ; no = "File is not available for download"	Description = The file is/isnot available for download source = see video page for more info	Description
hiphop:resolution	pbcoreAnnotation @annotationType = "Hip-hop file resolution vocabulary"		$d		Measuremets = 1080, type = resolution, unit = pixels	Measurements

The hierarchical structure of PBCore actually adds more specificity to a record than our own data model. The differentiation between assets and instantiations, in theory, makes it very clear which properties are describing elements of an original artistic work versus which are describing specific instances of the video or song. And like MARC, PBCore allows for sources of information (URIs and authority records) to be embedded directly into the records themselves. This improves upon the interoperability of our model since we were only using stings for certain properties like "copyright holder," whereas a PBCore record could link directly to the Library of Congress authority for that rightsholder.

However, PBCore generally seems to fall short when it comes to describing the content of media. I found myself having to fall back on either the "pbcoreAnnotation" element or iterations of the "annotation" attribute for several properties, such as location, yearsactive, and file resolution. The structure of the PBCore record also made it challenging to find a way to map our "Song" class and our three unique Agent subclasses. It seems as though, due to the structure of PBCore records, our Agent subclasses needs to be nested within the Hip Hop Video description document as pbcoreContributor or pbcorepublisher headings (with each contributor/publisher heading then including the other descriptive properties for the Agent, like "name" and "yearsactive"). If this is the case then, unlike our model, PBCore does not allow our Agents and our Song class to be defined as separate objects. Although this could be my own misunderstanding of the standard and XML.

To some degree, the complexity of the MARC schema worked in its favor in crosswalking the Hip-Hop collection's schema. There is a large number of fields to choose from so most of our fields had some direct or nearly direct correlary. The subfields and indicators also allowed for more metadata than even we had chosen to capture, like the sources of information. These pieces of metadata that might have been relegated to other documentation in our system are embedded within the record in MARC. It also clearly indicates when controlled vocabularies and formats should be used; even if these did not exactly align with our vocabularies and formats, it does take some of the guesswork out of translating data from one schema to the other. It also clearly indicators when fields are required/recommended/optional and repeatable/non-repeatable such that it was easy to determine when one MARC field could substitute for multiple Hip-Hop fields.

The cons of using MARC for our collection probably apply to most of the collections in this project: it is not set up perfectly for AV and digital materials, and it does not have agents and entities. It is a more one-dimensional bibliographic record. We could not link directly to our Artists, Producers, and Labels. Instead, they are listed in Personal Name and Corporate Name fields. On the other hand, MARC's extensive subfields did still allow us to record the other information that we recorded in our Agents. For entites such as Songs and the Collection, the cataloger would have to create separate MARC records and use the Uniform Title field to relate the two. This is not dissimilar to creating new Items in Wikibase, so it isn't a huge stretch to require that in our crosswalk. The difference is the ways in which these entities are linked, which can be quite confusing in MARC. I still do not completely understand the difference between 7xx and 6xx fields, so on the whole MARC is just a less user-friendly or novice-friendly schema. It also does not seem to be a perfect fit for archival materials as a whole; some fields and subfields provided instructions for how to record information on archival materials, but on the whole the hierarchies involved in collections down to items doesn't seem to exist.

Pros: Unlike other numerical based system, VRA Core provides a very clear language for building up reliable metadata. I found the spreadsheets of XML Elements for VRA Core to be fairly straight forward and easy to follow for users. As long as you are using VRA core for the types of items it was designed for, users can follow the clear element description guide to create sound metadata. Controlled vocabulary is simple, and self-reflexive of the real-world items that users would be building up meta-data for. VRA Core also provides some surpising fields such as "Material", "Inscription", "Cultural Context", "State Edition", and "Style Period" that I think would really be useful for someone working with a physical art in a museum setting.

Cons: VRACore doesn't seem to be the best data schema system when working with digital items such as videos online (and especially for born digital items). VRAcore calls itself "a data standard for the description of works of visual culture" and in its description it includes paintings, drawings, sculpture, architecture, photographs, as well as book, decorative, and performance art as the best types of items that it can be used for. That being said, the element descriptions does seem to be geared more toward museum-type users than people making digital collections online. Often I felt I was trying to make out digital categories match the schema and that match was tough to make.