VIDEO METADATA
@ CORNELL:
IMPLEMENTING KALTURA

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KALTURA
OPEN SOURCE VIDEO STREAMING PLATFORM

- Campus-wide deployment
  - CornellCast (cornell.edu/video/)
  - Lab of Ornithology (birds.cornell.edu/)
  - Blackboard
  - &c.

- Library Instance
  - Work-in-progress
KALTURA
OPEN SOURCE VIDEO STREAMING PLATFORM

- Library provided metadata field-sets:
  - Cornell-wide baseline
  - CUL extended

- Library developed specific use cases
Cornell’s Video Projects: Some Examples

- Müller-Kluge
  - Interviews, well-chaptered & described

- Experimental Television Center
  - Video Art
  - Multiple, (ir- &)related pieces per recording
Cornell Video Metadata: Elements of Concern

- Distributed
  - Campus, library & non-Cornell platforms

- Structural Elements
  - Time codes / chaptering

- In-depth segment-level description

- Caption/Transcription (in multiple languages)
  - Current player can switch languages
FIELD-SET: BASELINE

<Title />
<Description />
<Categories>*
<Keywords />
<CreationDate />
<Creator />
  <CreatorLastName />
  <CreatorFirstName />
  <CreatorRole>*
  <CreatorNetID />
<ContributingUnit>*
<Language>*
<Rights />

Note: formatting & inner-text of these tags does not necessarily reflect that within Kaltura’s *Controlled Field
Field-Set: CUL Extended

.getExternalFieldSet definition
<Identifier />
<AlternativeTitle />
<Subject /> 
<Location />
<OriginalFormat />
<SoundType />
<ColorType />
<RecordingNote />
<Collection />
<AccessionNumber />
<Repository />

<ContainerText /> 
<DigitizationSteps /> 
<HardwareSoftware /> 
<MasterFileFormat /> 
<DerivativeCopy /> 

<CaptionURL>
<TimeCodeURL>
<ChapterDescription>

Note: formatting & inner-text of these tags does not necessarily reflect that within Kaltura’s
FIELD-SET: AUTO-Captured

.Bitrate />
<Framerate />
<Filesize />
<VideoDuration />
<AudioDuration />
<Width />
<Height />
<FileFormat />
<SourceCodec />
<UploadDate />
<LastModifiedDate />

<Thumbnail />
<AssetInternalFlavorsURLs />
<VideoDownloadURL />
<AudioDownloadURL />

Note: formatting & inner-text of these tags does not necessarily reflect that within Kaltura’s
CONTROLLED VOCABULARIES

- Kaltura CV – [not easily extensible]
  - Only controlled in baseline fields

- `<CreatorRole />`
- `<Categories />`
- `<Language />`

- `<ContributingUnit />`
  - Kaltura – VIVO – Kuali
KALTURA: METADATA CONCERNS

- Nested Elements
  - unable in Kaltura, currently
    - `<CreatorLastName>` `<CreatorFirstName>` `<CreatorRole>` `<CreatorNetID>`

- Non-Repeateable

- No underlying common schema
  - `.xsd` per instance

- Harvestability
PBCore 2.0

- Can crosswalk, if ever needed / available
- `<pbcorePart>...</pbcorePart>`
- URI attributes
URIs

Why needed:
- Batch embed code
- Traditional arguments
What is Needed?

- Multi-level, hierarchical / structural description
- Integration with DSpace (ecommons.library.cornell.edu)
- Incorporation with discovery environment (Summon, &c.)
- *Integration* with digital archival repository
- Aggregated management of video assets
THANK YOU!

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