

W Diving Deep

Free and open source software tools for the quality control of AV archival materials (as seen through the eyes of a Google Slides template and some clip art)

Kelly Haydon | April 29th, 2017 | Society of California Archivists Annual Meeting | PasadenaCA

AGENDA

• Information (?)

Demonstrations (!)



Free and Open Source Software

FOSS

The acronym is controversial, but let's not go there...[go here] Just know (1) the source codes of these applications are freely available to copy, study, and change (2) FOSS is a movement that challenges proprietary business models by encouraging self-determination through community engagement.

AV Archivists are REALLY into FOSS Development for Digital Video Analysis...



MediaInfo

Displays technical information about media files (aspect ratio, frame size, bit rate, etc.)



MediaConch

An implementation checker, policy checker, reporter, and fixer that targets preservation-level audiovisual files.



QCTools & qcli

A dynamic, stand-alone quality control tool for one-to-one digital video analysis. Qcli is the command line version of the tool.



SignalServer

A web server application that collects data from QCTools reports for collection-level analysis of tape-to-file digitization projects.



DV Analyzer

A technical quality control and reporting tool that examines DV streams in order to report errors in the tape-to-file transfer process



AV Artifact Atlas

An online, community built resource for identifying errors and anomalies in video digitization.

....

€. QCTools

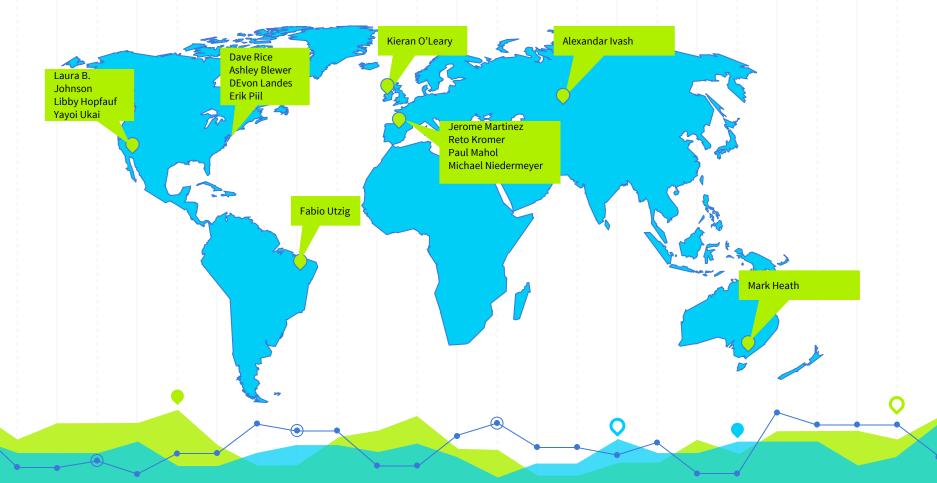


AV Archivists are REALLY into FOSS Development for Digital Video Analysis...



...and they all know Dave Rice @dericed

QCTools Developers (A Sampling)







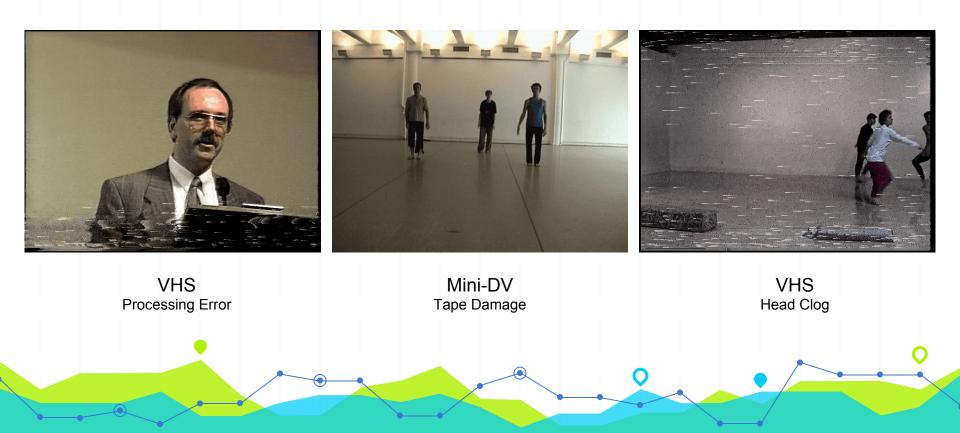
QCTools Tester Workshops



DEMONSTRATION The Scenario

But little do you know...

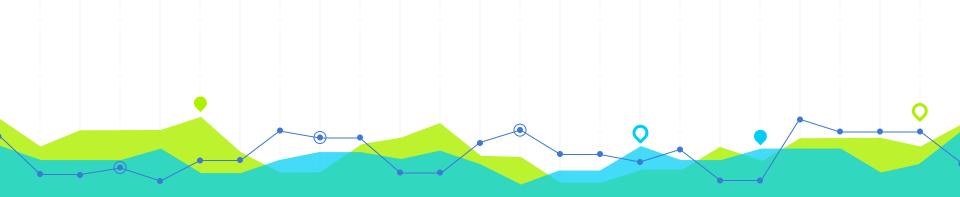
There are Errors!



DEMONSTRATION

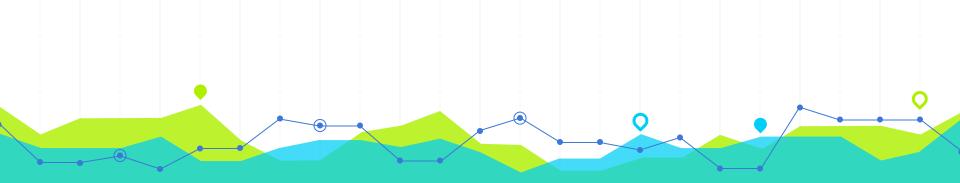
And How Might We Find Them?

By adding a few FOSS tools to your workflow you can find either visual errors, or errors in the technical metadata



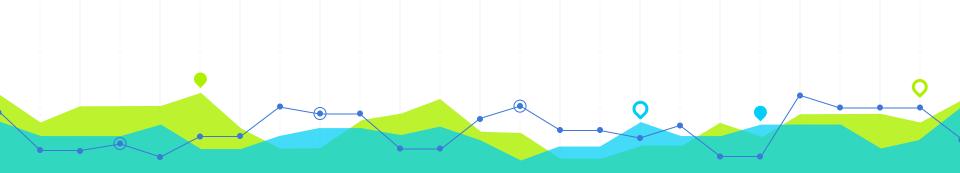


Conformance checker for preservation file formats | Developed by MediaArea.Net for the PREFORMA project



DV Analyzer

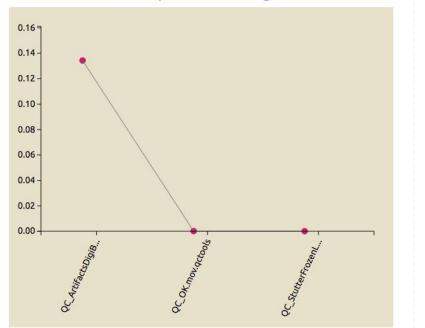
Examines DV streams for errors | Developed by David Rice for AudioVisual Preservation Solutions





SignalServer is Coming

Filter Name : BRNG Operation: average



QCTools [and other free and open] source quality control tools] serves an important communicative function, one that transcends institutional boundaries. - Ben Turkus, "Drop Video Files Here"

"

"

QCTools allows me to spend more time with my girlfriend - Anonymous

THANKS

Any questions?

You can find me at @bavcpreserve / kelly@bavc.org SENT'BY: HUFSTEDLER, KAUS ET AL 4-12-91 :11:13AM :

6620→

3:# 3 P. 3/ 5

DRAFT

Digitizing the Independent Commission collection at USC

By Louise Smith *Digital Imaging Specialist at USC*

INDEPENDENT COMMISSION ON THE LOS ANGELES POLICE DEPARTMENT

STATEMENT OF ASSIGNMENT (KELLEY/PERLUSS)

IS THERE ANY UNDERLYING RACIAL/ETHNIC BIAS AMONG LOS ANGELES POLICE WHICH TENDS TO TRANSLATE INTO RACIALLY/ETHNICALLY MOTIVATED CONDUCT BY OFFICERS IN DEALING WITH THE PUBLIC/ARRESTEES?

IS THERE ANY DISCERNABLE, PERSISTENT PATTERN OF RACIAL/ETHNIC BIAS, DISCRIMINATION AND/OR HARASSMENT IN THE CONDUCT OF OFFICERS OF THE LOS ANGELES POLICE DEPARTMENT (LAPD) WITH THE PUBLIC/ARRESTEES?

IF SO, ARE THERE LAPD POLICIES IN PLACE WHICH PROVIDE EFFECTIVE MEANS OF REDRESS FOR THE VICTIMS AS WELL AS DISCIPLINE/"REFORMATION" FOR THE PERPETRATORS?

IF THERE ARE EXISTING LAPD POLICIES AND PROCEDURES TO ADDRESS THIS PROBLEM, NOW DO SUCH POLICIES COMPARE WITH THOSE OF (A) OTHER AREA LAW ENFORCEMENT AGENCIES AND (B) OTHER LARGE URBAN POLICE DEPARTMENTS AROUND THE COUNTRY.

IF THERE ARE NOT ADEQUATE EXISTING LAPD POLICIES, WHAT POLICIES/PROCEDURES CAN OR SHOULD BE ESTABLISHED TO ADDRESS POLICE BIAS, DISCRIMINATION AND/OR HARASSMENT. WHAT POLICIES OR PROCEDURES EXIST IN OTHER AREA LAW ENFORCEMENT AGENCIES TO ADDRESS THE PROBLEM OF POLICE DISCRIMINATION.

I. RACIAL/ETHNIC COMPOSITION OF LAPD:

Percentage of sworn police officers in the LAPD who are members of each of the following racial/ethnic groups:

A. Black;

- B. Hispanic;
- C. Asian;
- D. White; and E. Other.

11. PERCENTAGE OF ARRESTEES WHO ARE MEMBERS OF EACH OF THE ABOVE RACIAL/ETHNIC GROUPS.

 Percentage of each group of arrestees with arrest reports indicating use of force to subdue.



50 boxes

- Identify complex objects
- Separate complex objects with yellow paper
- Add metadata
- Give to student worker for digitization

Digitization station student worker operated Fujitsu fi-6400 & Adobe Bridge



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Duna & Castala

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Series description

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Subseries

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File description	Date	Box	Folder	ltem Number	Sample filename or directory	
son, Duan & Crutcher letter - to: John W. Spiegel, Esq. of Munger, Tolles & Olson, cc: - ency P. McC	May 31, 1991	19	12	56	indep-box19-12-56	
, Dunn & Crutcher letter - to: Louise A. La Mothe, Esq. of Irell & Manella, cc: John W. Sp. gel, F	May 31, 1991	19	12	57	indep-box19-12-57	
son, Dunn & Crutcher letter - to: John W. Spiegel, Esq. of Munger, Tolles & Olson, cc: Nancy P. N.	May 31, 1991	19	12	58	indep-box19-12-58	
Express messenger service reciept - to: John Spiegel; from: Holliday	May 31, 1991	19	12	59	indep-box19-12-59	
son, Dunn & Crutcher letter - to: Louise A. La Mothe, Esq. of Irell & Manella, cc: John W. Spiegel, E	4ay 31, 1991	19	12	60	indep-box19-12-60	
ependent Commission on the Los Angeles Police Department letter - to: Mr. William M. Rathburn, C	May 31, 1991	19	12	61	indep-box19-12-61	
ependent Commission on the Los Angeles Police Department letter - to: Patrolman Ann Clark of th	May 31, 1991	19	12	62	indep-box19-12-62	

340	346	file	Gibson, Dunn & Crutcher	he staff of Gibson, Dunn & Crutcher	Correspondence - Volume II	Gibson, Dr. & Crutcher letter - to: John W. Spiegel, Esq. of Munger, Tolles & Olson, cc: , ncy P. McG	May 31, 1991	19	12	56	indep-box19-12-56	
341	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher col	Correspondence - Volume II	libsta, Dunn & Crutcher letter - to: Louise A. La Mothe, Esq. of Irell & Manella, cc: John W. Spirgel, I	May 31, 1991	19	12	57	indep-box19-12-57	
342	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	son, Dunn & Crutcher letter - to: John W. Spiegel, Esq. of Munger, Tolles & Olson, cc: Nancy P. N.	May 31, 1991	19	12	58	indep-box19-12-58	
343	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	Cir Express messenger service reciept - to: John Spiegel; from: Holliday	May 31, 1991	19	12	59	indep-box19-12-59	
344	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	Gil son, Dunn & Crutcher letter - to: Louise A. La Mothe, Esq. of Irell & Manella, cc: John W. Spiegel, I	fay 31, 1991	19	12	60	indep-box19-12-60	
345	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coo	Correspondence - Volume II	In ependent Commission on the Los Angeles Police Department letter - to: Mr. William M. Rathburn, C	May 31, 1991	19	12	61	indep-box19-12-61	
346	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher ce i	Correspondence - Volume II	dependent Commission on the Los Angeles Police Department letter - to: Patrolman Ann Clark of th	May 31, 1991	19	12	62	indep-box19-12-62	
347	346	file	Gibson, Dunn & Crutcher	1. staff of Gibson, Dunn & Crutche coor	Correspondence - Volume II	Independent Commission on the Los Angeles Police Department letter - to: Detective Henderson Cooper	May 31, 1991	19	12	63	indep-box19-12-63	
348	346	file	Gibson, Dunn & Crutcher	The stall of Gibson, Dunn & Calcher coor	Correspondence - Volume II	Gibson, Dong & Crutcher letter - to: Warren Christopher, Esq. of O'Melveny & Myers; from nomas E.	May 31, 1991	19	12	64	indep-box19-12-64	
349	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume P	Gibson, Dunn & tcher letter - to: Bert H. Deixler, Esq. of McCambridge, Deixler & Marmaro, cc: Joh	May 31, 1991	19	12	65	indep-box19-12-65	
350	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	Gibson, Dunn & Crutcher letter Mr Roy A. Anderson of Locking, corporation, cc: Warren Christo	June 1, 1991	19	12	66	indep-box19-12-66	
351	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	Irell & Manella inter-office memo - to: I&M team* (LaMothe, Boston, Huffman, Savoldelli, Silverman,	June 3, 1991	19	12	67	indep-box19-12-67	
352	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	Letter - to: David Huebner of Irell & Manella; from: Patrick T. Maher	May 31, 1991	19	12	68	indep-box19-12-68	
353	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	Memo - to: Lawrence B. Gotlieb, Esq., cc: John W. Spiegel, Esq.; from: Thomas E. Holliday; re: Indeper	June 3, 1991	19	12	69	indep-box19-12-69	
354	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	Memo - to: John W. Spiegel, Esq., cc: Raymond C. Fisher, Esq.; from: Thomas E. Holliday; re: Independent	June 3, 1991	19	12	70	indep-box19-12-70	
355	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	Memo - to: Patricia H. Benson, Esq., Terry W. Bird, Esq., Robert L. Corbin, Esq., Burt H. Deixler, Esq.,	June 3, 1991	19	12	71	indep-box19-12-71	
356	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	Mitchell, Silberberg & Knupp fax cover sheet - to: Tom Holliday of Gibson, Dunn & Crutcher; from: Ro	June 3, 1991	19	12	72	indep-box19-12-72	
357	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	Mitchell, Silberberg & Knupp interoffice memo - to: Tom Holliday, cc: John Spiegel, Abby Ullman; from	June 3, 1991	19	12	73	indep-box19-12-73	original ver
358	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	Independent Commission on the Los Angeles Police Department fax cover sheet - to: Tom Holliday of G	June 3, 1991	19	12	74	indep-box19-12-74	
359	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	Independent Commission on the Los Angeles Police Department memo - to: All deputy general counsel	June 3, 1991	19	12	75	indep-box19-12-75	
360	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	O'Melveny & Myers fax cover sheet - to: Holliday; from: Gil Ray	June 3, 1991	19	12	76	indep-box19-12-76	
361	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	Memo - to: Commissioners and staff; from: Gil Ray; re: Security	June 3, 1991	19	12	77	indep-box19-12-77	
362	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	List of names and addresses		19	12	78	indep-box19-12-78	
363	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	Memo - to: file; from: Thomas E. Holliday; re: Commission testimony of Detective I Henderson Cooper	June 4, 1991	19	12	79	indep-box19-12-79	
364	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	Memo - to: files; from: Thomas E. Holliday; re: Commission testimony of Patrolman III Ann Clark	June 4, 1991	19	12	80	indep-box19-12-80	
365	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	Munger, Tolles & Olson fax cover sheet - to: Thomas E. Holliday, Esq. of Gibson, Dunn & Crutcher; fro	June 4, 1991	19	12	81	indep-box19-12-81	
366	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	Independent Commission on the Los Angeles Police Department memo - to: Members of the Independent	June 4, 1991	19	12	82	indep-box19-12-82	
367	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	Distribution list		19	12	83	indep-box19-12-83	
368	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	DRAFT - June meetings of the Independent Commission	June 4, 1991	19	12	84	indep-box19-12-84	
369	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	Munger, Tolles & Olson fax cover sheet - to: Thomas E. Holliday, Esq. of Gibson, Dunn & Crutcher; fro	June 4, 1991	19	12	85	indep-box19-12-85	
370	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	Memo - to: John W. Spiegel, Esq., cc: Raymond C. Fisher, Esq.; from: Thomas E. Holliday; re: Independent	June 3, 1991	19	12	86	indep-box19-12-86	
371	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	Irell & Manella letter - to: Ms. Lucy Dewell of Gibson, Dunn & Crutcher, cc: Louise A. LaMothe, Esq.;	June 4, 1991	19	12	87	indep-box19-12-87	
372	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	Irell & Manella letter - to: Robert L. Corbin, Esq. of Sharenow & Corbin, bcc: Louise LaMothe, Esq., Ju	June 5, 1991	19	12	88	indep-box19-12-88	
373	346	file	Gibson, Dunn & Crutcher	The staff of Gibson, Dunn & Crutcher coor	Correspondence - Volume II	Bryan, Cave, McPheeters & McRoberts memo - to: Thomas E. Holliday, Esq.; from: Percy Anderson, Es	June 5, 1991	19	12	89	indep-box19-12-89	
374	246	61.	Gibson Dunn & Centahor	The staff of Cilean Dunn & Crutcher asar	Carramandanaa Valuma II	Miller & Malan latter to: Brian O'Maill Eco of O'Maill & Lunght an Douglas Daltan Eco. Mark O H	Juna 5 1001	10	12	00	indon hov10 12 00	4 4
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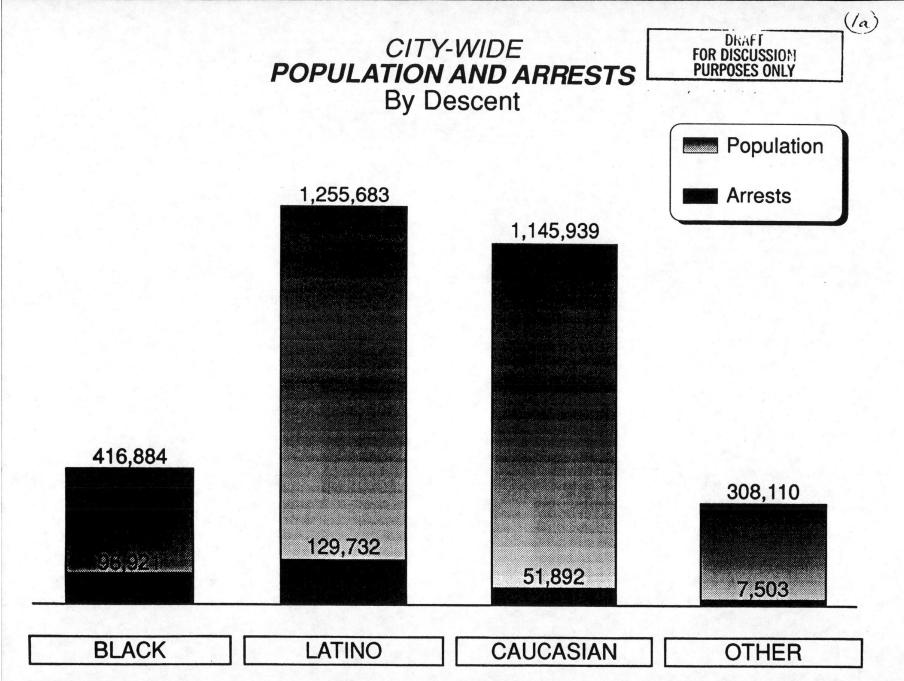
Metadata from finding aid box level information folder level information describing those objects.



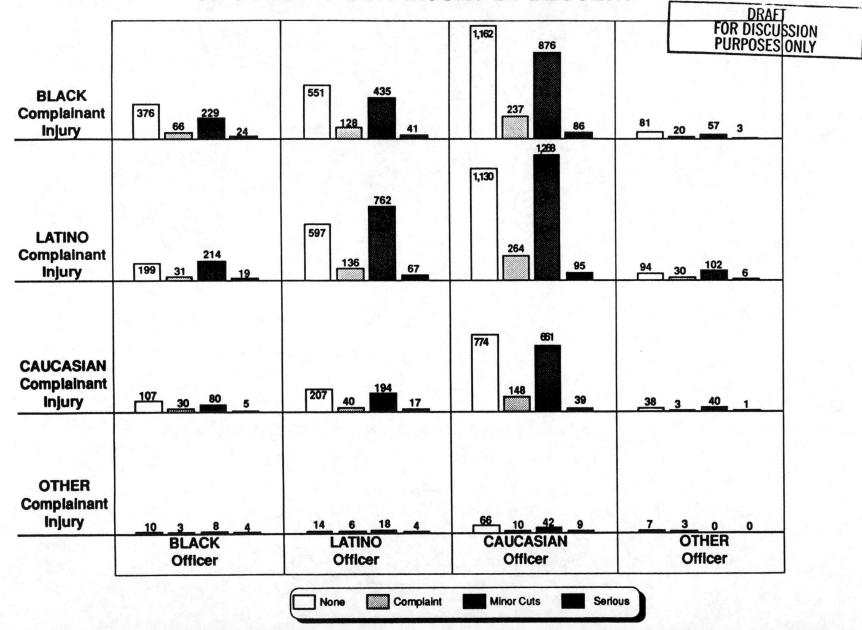
AM 12:53:55

-. FAR SALE MIMP MALE CHIMP', A SIX YEAR OLD MALE ORANGUTAN, & SISTER 'DALE! WERE RECENTLY HIS TWIN ORPHANED WHEN BOTH THER PARENTS WERE FED CHANIDE LACED BANANAS. TRAGICLY HAVE A HEART AND ADOPT THESE TWO APES ... IT'LL ONLY COST HOU LOVABLE PEANUTS ADAY TO FEED THESE - CUTIES

Investigation of the Glendale Police Department's hiring and employment practices as they pertain to racial and ethnic minorities (vol. ii). Submitted by Ochoa & Sillas, Jan. 1988.



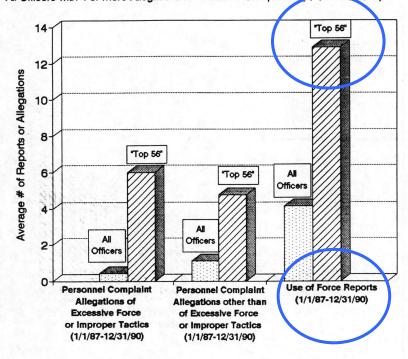
NUMBER OF OFFICERS ON UOF REPORTS AND DISTRIBUTION OF COMPLAINANT INJURY BY DESCENT



(9)

Comparison of "Top 56" Officers* Receiving Force Complaints with All Officers** Involved in Use of Force Database

* All Officers identified in a Use of Force Report as involved in a Use of Force (1/1/87-12/31/90) ** All Officers with 4 or more Allegations in Personnel Complaints (1/1/87-12/31/90)



Source: L.A.P.D. Personnel Complaint and Use of Force Databases.

OFFICER INFORMATION

(For officers with badge #'s 20446, 21667, 23678, 25440, 24883)

	Officer	Info	rmation	Number of	
	Badge	Sex	Descent	Reports	<u>Percentile</u>
1.		М	с	12	10
2.		М	С	З	50
З.	1	М	С	10	10
4.	2	M	С	12	10
5.	10	М	С	19	10



Barrett, B., & Parrish, D. (1991, June 9). The record against LAPD: 254 officers named in 3 or more excessive-force cases. *Sunday Daily News.*

SERIAL #: 24917 IA#: 88-1318

OFFICERS S/R: Male/Hispanic COMPLAINANT: Male/Hispanic NAME: Anthony Lopez ADDRESS: 8987 Marcourt Southgate, CA TEL. #: 567-0854

DATE OF INCIDENT: September 5, 1988 DATE OF DISPOSITION: September 22, 1985 PENALTY: 7 days suspension

WAS PENALTY CHANGED: Remained the same. Chief Gates signed off for 7 days suspension on October 19, 1988

BY WHOM/WHEN:

RANK AT TIME OF INCIDENT: PO2 RANK AT TIME OF DISPOSITION: PO2 RANK TODAY: PO2 DIVISION AT TIME OF INCIDENT: Hollenbeck. There was no chase involved.

NATURE OF INCIDENT: The following is the nature of the incident. The type of complaint is discourtesy/improper tactics on two counts and they were sustained. Complainant Nancy Lopez alleged that police officer 2 Juan Gomez on or about September 5, 1988, 1830 hours, directed a serious remark to him while being processed to Hollenbeck station to wit "you lying asshole." Lopez further alleged that Gomez walked up to him while he handcuffed and seated on a detention bench, placed his buttocks within 1 foot of Lopez's face and deliberately flatualated. Mora, an independent witness, substantiated Lopez and reputed Lopez's version of the incident. Both these counts were sustained. The Board of Righte found the officer guilty of counts 1 and 2 and also described a 7 day suspension. In the personnel files there are no mention of the incident in the evaluation forms. The officer transferred to the recommended

Rampart Division after March 1, 1990.

PERSONNEL COMMENTS:

TRANSFERRED: Ramport WHERE: 3-1-90

150. SERIAL # 22658 OFFICER (S/R): M/H IA # 840.303 . COMPLAINANT (S/R): M/C DATE OF INCIDENT: 3 - 24 - 84DATE OF DISPOSITION: 6-12-84 PENALTY: ADMONISHMENT (POII- 4/12/82 (POII- 4/11/88) POI RANK AT TIME OF INCIDENT: RANK AT DISPOSITION: RANK TODAY: POLICE SGT I 12/31/89) DIVISION AT TIME OF INCIDENT: PACIFIC/FSD CHASE: N. F. V. NATURE OF INCIDENT: IA - EXCESSIVE FORCE ALLEGATION - EXCESSIVE FORCE - SUSTAINED COMPLAINANT REPORTED THAT OFFICER UNNECESSARILY HIT HIM WITH A BATON 4 OR 5 TIMES AND KICKED HIM WHILE. HE WAS ON THE GROUND, WHILE ANOTHER UNKNOWN OFFICER PERSONNEL COMMENTS: (DATES, NATURE) REAT WIND OFFICER IN THE COMPLAINT IT WAS BEAT HIM ON HIS BACK WITH A RECOMMENDED THAT NEGLECT BATON. OFFICER FAILED TO DOCUMENT AN ALTERCATION IN OF DUTY AGAINST OFFICER BE ARREST REPORT SUSTAINED. NO MENTION IN EVALUATION TRANSFERRED: OWB CRASH WHEN: EVALUATION REPORT SHOWS 10-13-85 9-1-18/2-28-15 EVALUATION MISSING 3-1-87/2-28-88 EVALUATIONS MISSING 9-1-89/12-31-89 NO EVALUATION IN FILE



These are the thoughts that set fire to your city, Hollywood, 1993. Alley at Melrose Avenue and North La Brea Avenue, Hollywood. Phantom Street Artist aka Joey Krebs. Photograph by Robin Dunitz. *USC Digital Library.*



Jet Propulsion Laboratory Archives

Saving Old Media for the Future: Issues in Image Preservation and Access

Photo Preservation Project

Library, Archives, and Records Section Julie Cooper, Archivist Camille Mathieu, Part-time Archivist

> Society of California Archivists Annual General Meeting April 29, 2017



Photo Collections

1940 to 1970s/80s Estimated 350,000 images

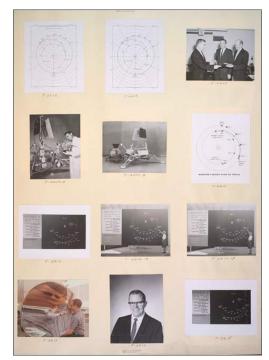


Negatives Acetate 4x5 8x10 120 (6x6 cm) 35mm B&W and Color Some taped to crop Proof prints

Kraft paper envelopes Glassine sleeves Black paper

Metal cabinets (Photolab) Acid-free boxes

Small portion of the collection is now in polyester sleeves (~\$45K)



4x5 proof albums Low res scans for access, not preservation

Storage of Archival Negatives/Prints

1940 to the present – the JPL Photolab's collection of negatives and proof prints has been housed in a wide variety of storage conditions.

At 50 years – acid damage can accelerate

JPL Records Center On-site, then off-site 1968 - 1998 Vendor records storage, 1998 - present



Photolab in Eng. Bldg.1943 JB-71

Mobile Photolab, 1947 JB-362



JPL Photolab dark room, 1943 JB-76









Archives climate controlled 2004 - Present

Photo negative preservation project

During a digitization project, vinegar smell was noticed and damage found.

- Silvering
- Color changes
- Acid spots
- Channeling

Negatives from the mid-1950s show more damage.





Photo negative preservation project

Acid detecting strips -

Samples in every box and drawer in storage: On-Lab Off-site Photolab

1940-1969



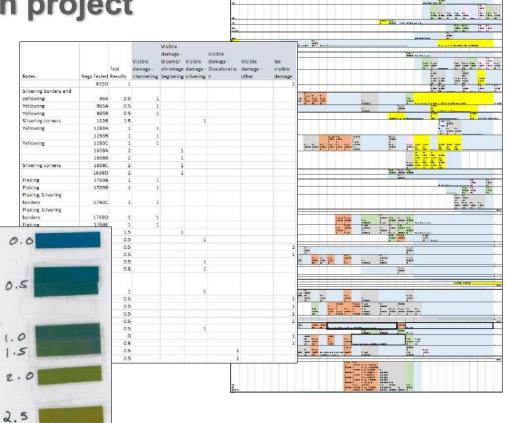


Photo negative preservation project

Refrigerator storage for negatives 40 cubic feet 34° 30-40% humidity

Withdraw negatives from storage Separate negatives from prints Smaller boxes



National Park Service Instructions Supply lists Conserve O Gram Video tutorials

Temp	RH	Years to Significant Change		
75°F	50%	25		
75°F	30%	45		
55°F	50%	105		
55°F	30%	190		
32°F	50%	625		
32°F	30%	1170		
10°F	30-50%	>3700		

The IPI Preservation Calculator for Photo Storage at www.imagepermanenceinstitute.org provides an overall 'life expectancy rating' based on known temperature and relative humidity in storage.



Photo digitization project

Past interns scanned images from JPL Photolab and Archives – negatives and prints, 1945 to 1976

Parts of the collection:

No albums No scans Access is difficult Scan for access, not preservation. 62-page virtual (PDF) photo album for visual access to Photolab images. Full text is searchable.

4,300 images scanned so far by interns Includes 5.5 cf from Archives and 1500 negatives from Photolab

Updates to photo inventory and enhanced metadata for finding aids



Photo digitization project – summer 2017

Intern this summer, 10-12 weeks

Copy stand and camera, loan from JPL Photolab. More efficient workflow than flatbed scanner High resolution - preservation

Scan negatives from Archives collection that are at highest risk. (1940 to 1959) Scan proof prints if negative is too damaged to scan.

Updates and corrections to photo index, enhanced metadata



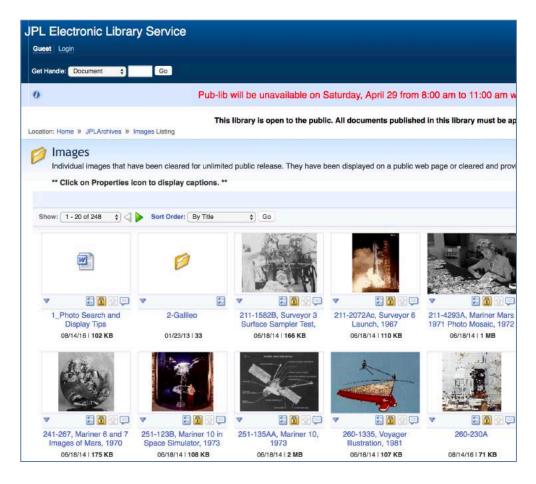


Improving Access to Digitized Content through Social Sharing

Camille Mathieu, Part-time Archivist @stembrarian

Digital Photo Collection

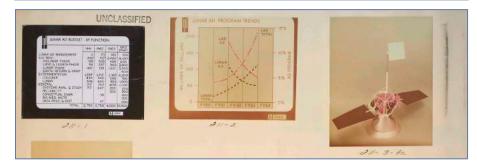
- About 6,000 photos scanned
- Disparate repositories with varying levels of access
- Current access provided through public Docushare library, library catalog, and Historical Photo of the Month blog

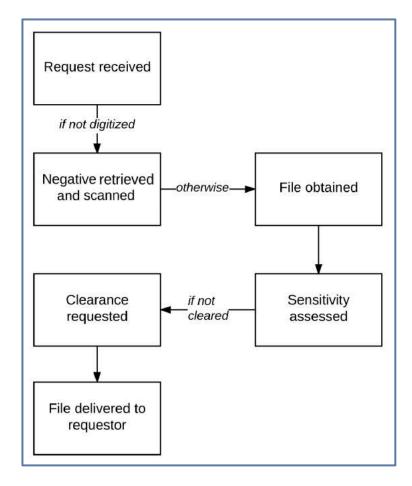


Accessing Photos

Graphical and Textual Photo Indexes

6-20-61	(c)	312-1		Table I Units of Variance for Agena System
3-2-61	(U)	312 - 2	AB	Spacecraft Attidude Reference System
3-2-61	(U)	312-3	AB	Description of Miss-Distance Coordinates
3-2-61	(U)	31,2-4	AB	Earth-Mars-Solar Geometry
3-2-61	(U)	31,2-5	AB	Reference Vector Traces on a Mars-Centered Celestral Sphere





Flickr Photo Sharing





Benefits of Photo Sharing Platform

- Platform is dynamic, not static
 - Allows for photo aggregation and collection building without duplication
 - Photos + descriptions will automatically adjust to fit the appropriate screen size for the viewer's device
- Publishing on the photo sharing platform primes content for sharing on other platforms
 - Photo and collection "records" allow sharing at both the photo and collection levels
 - Embedded links can be used to create appealing galleries where such functions are not built-in
- Search indexes both photos and collections for web discovery



"Cataloging" in Flickr

- Has title, description, and tag fields for descriptive metadata
- Date fields keep track of when item was created and when it was uploaded.
 - "Circa" and "Sometime in..."
- Different access restrictions for interaction (comments, tagging)
- Auto-populates with information from photo if available

Magnetic Data Storage,	P-8296								
From 1967 through the	early 1970s, a	number	of stu	dies	were co	nduc	ted at	L JPL w	/ith
the aoal of reducina the	size of comp	uter mer	morv a	and d	evelopir	na mi	iniatu	re stor	aae
/ho can see this photo									Public
/ho can comment on this	photo					1	Any Fl	ickr m	ember
Vho can add tags and pe	ople to this pl	noto					Peop	le you	follow
low safe is this photo for	nublic search								Safe
Copyright protection leve	i for this photo	2						Attri	bution
Date Taken	Circa			му.;	1967	¥		1	
Date Uploaded	April	*	2	•	2017	•	16	: 35	: 55
Add new tags			21	Ac	ld peopl	e	2		
Laser NASA Hist	ory			50					
computer science	magnet								

Optimizing Content

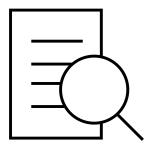


Use tags popular in the platform to increase chances of being searched/boosted.



Descriptive title

Include descriptive language in both record title and file name.



Use all fields

If you don't understand a field, research the best way to use it – don't ignore it!



Be social

The more your collections are shared and linked, the higher your search ranking.

Bausch, Paul, and Jim Bumgardner. 2009. Flickr Hacks: Tips & Tools for Sharing Photos Online. Sebastopol: O'Reilly Media, Inc.

15 **JP**

Historical Photo of the Month

- WordPress blog run by the JPL Archives since December 2009 (online since 1996).
- Viewable by both internal (JPL) and external (public) users



Historical Photo of the Month

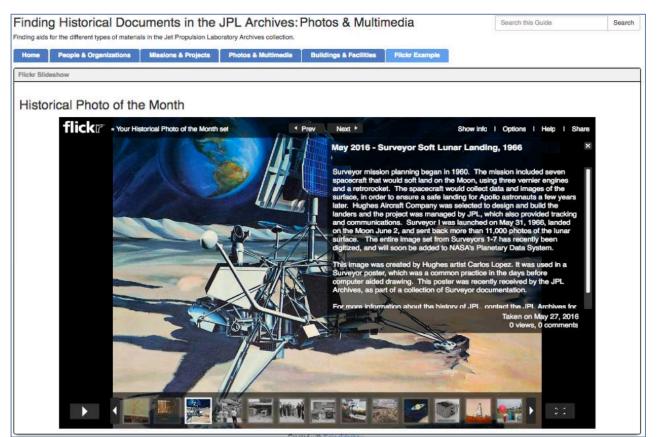
- With migration of Beacon site, needed:
 - Public platform
 - Optimized for photo search and discoverability
 - Supportive of social sharing



Displaying Photos in LibGuides: Before

ne People & Organizations Missions & Projects Photos & Multimedia	Buildings & Facilities Flickr Example		
2016 September 2016 August 2016			
000 000	Photograph n	32nd Anniversary, 1968 number P-9067A ction folder 3-68)	
	On October 31, 1968 JPL celebrated the 32nd Arroyo Seco. The five men in this photo were pr and 1937, and they came back to JPL for th Rockefeller, William A. Bollay, Edward S. Form historical marker found in the JPL Mall was com replica of the rocket motor test stand. The pho drawing by Frank Malina. He was the Chief En Acting Director from 1944 to 1946. For more inf Archives for assistance. [Archival and other sou albums, L	resent at the series of tests that happenee celebration. From left to right are: Winan, Frank J. Malina, and Apollo M.O. Sumemorated at this event, and they posite on the right shows a print of a 1936 agineer of what would later become JPI ormation about the history of JPL, contraction about the history of JPL ab	ned in 1936 illiam C. Smith. The sed next to a test stand L, and was tact the JPL

Displaying Photos in LibGuides: After



Final Thoughts

- Disadvantages of Photo Sharing Platforms
 - Not for preservation
 - Even if used as only photo repository, still necessary to do bulk downloads to local storage for preservation
 - TIFF files are not supported
 - May have some associated monthly or annual cost, or cost based on space usage

• Moving forward

- Use Flickr collections as entry points for archives' preservation or local holdings
- Cultivate photo metadata entry in such a way that standard or preservation-quality metadata is captured for secondary use in photosharing platforms



Social Media Outreach for Smaller Archives

Patricia Delara, Upland Public Library

Introduction

If you know your audience, you will know which social media platform to use.

But also think: what is the best way to highlight YOUR collection?

Different mediums, different methods

Instagram is a popular choice among many larger archive institution accounts.

Curated gallery of photos.

_ __ __

...

130 posts	791 following	
	Following	

California State Library

is where you can find anything you want about California's past, present, and future. #castatelibrary

www.library.ca.gov/

<

Followed by hollywoodlapl, santacruzpl, pepperdine_libraries + 26 more



<	usnatar	•••	
NATIONAL	1,064 posts	43.3K followers	126 following
ARCHIVES			

US National Archives

The nation's record keeper. Visit our new web portal to #WW1 records.

bit.ly/2o5Ee1k

Followed by santacruzpl, laacollective, littlebrown + 23 more





•••



View Insights

Promote

$\bigcirc \bigcirc \bigcirc \land$

46 likes

uplandpubliclibrary Uplanders dressed in their best! This photo #fromtheUPLarchives is dated on March 14, 1897. Captioned: Upland Photograph People... more

mauragraber Wonderful old photo!

thedlc5 So cool!

FEBRUARY 26





uplandpubliclibrary The skies cleared up and it's a beautiful day out! Perfect time to drive with the top down, just like this gentleman here #fromtheUPLarchives!

#archivefinds #libraryfaves #libraryfinds #archives #archivesofig #librariesofig #uplandca #history #cahistory

29 likes 1 DAY AGO

Add a comment...

•••

#HASHITOUT

Clever hashtags are a unique way of organizing your specific photos.

Upland Public Library's Local History hashtag: **#fromtheUPLarchives**

MAKE YOUR HASHTAGS STAND OUT!

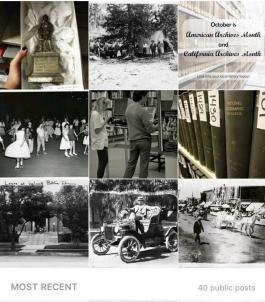
BE UNIQUE!

_ _ _

#fromtheUPLarchives

 \bigtriangledown

TOP POSTS





https://www.instagram.com/explore/tags/fromtheuplarchives/

#fromtheUPLarchives

MOST RECENT

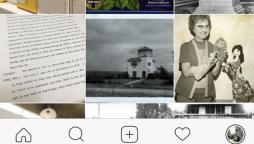
<

 ∇











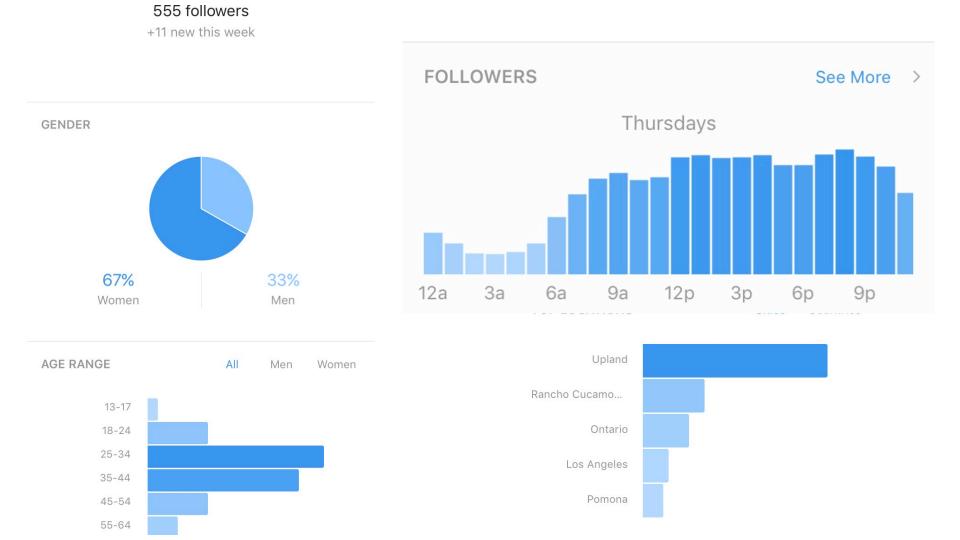
Effective ways to reach your audience

Insights and analytics!

Available on social media if your account is a business account!

Target your audience!





Have fun, and be creative!

Come up with creative ways to describe your collection.

It's okay to be silly - making it appropriate to what you're posting is better!

https://instagram.com/p/BM7Rs4-AqPc/

Observations

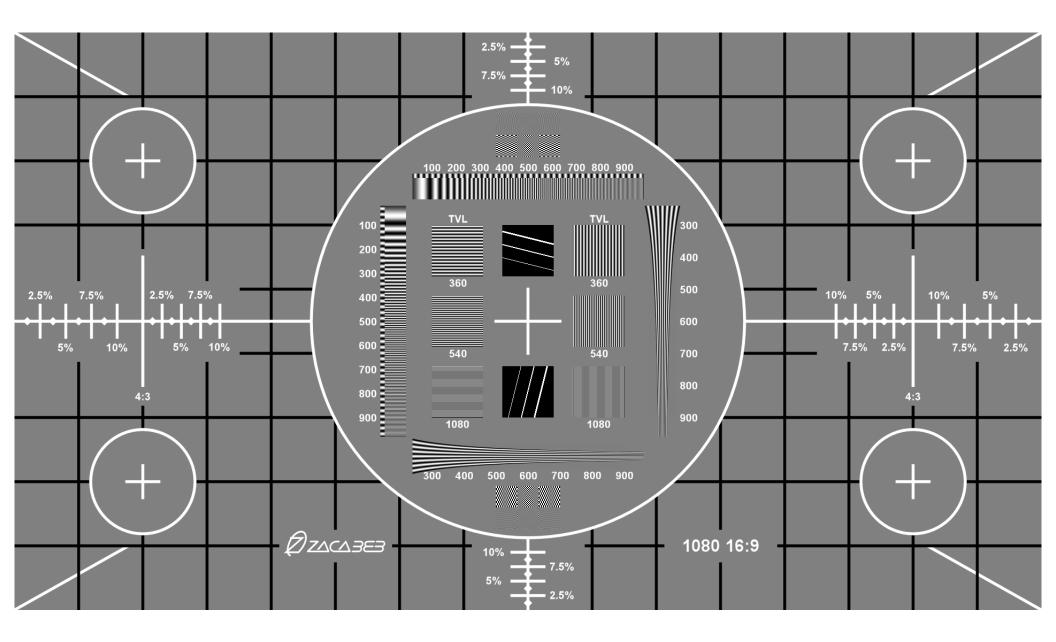
_ _ _

Over time, your followers will notice your efforts.

Loyal likers, loyal followers!

Overall, what matters is...

Your collection is out there!



Video Examples and Slides available:

http://bit.ly/scavideoqc







The Future Looks Good: Video Quality in Reformatting Projects





Michael Angeletti Society of California Archivists 2017 AGM April 29, 2017







Television Broadcasts

Documentary Film Production

Radio Broadcasts

Award Ceremonies or Special Event Presentations

Donor Fundraising Events

Installation Art



Museum Exhibits

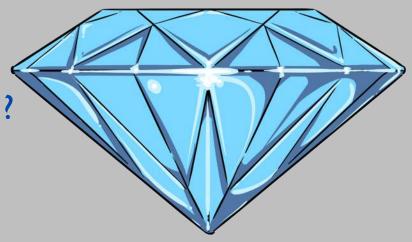
Live Multimedia Performance

Evidence Used in Litigation

Presentations to Board of Trustees

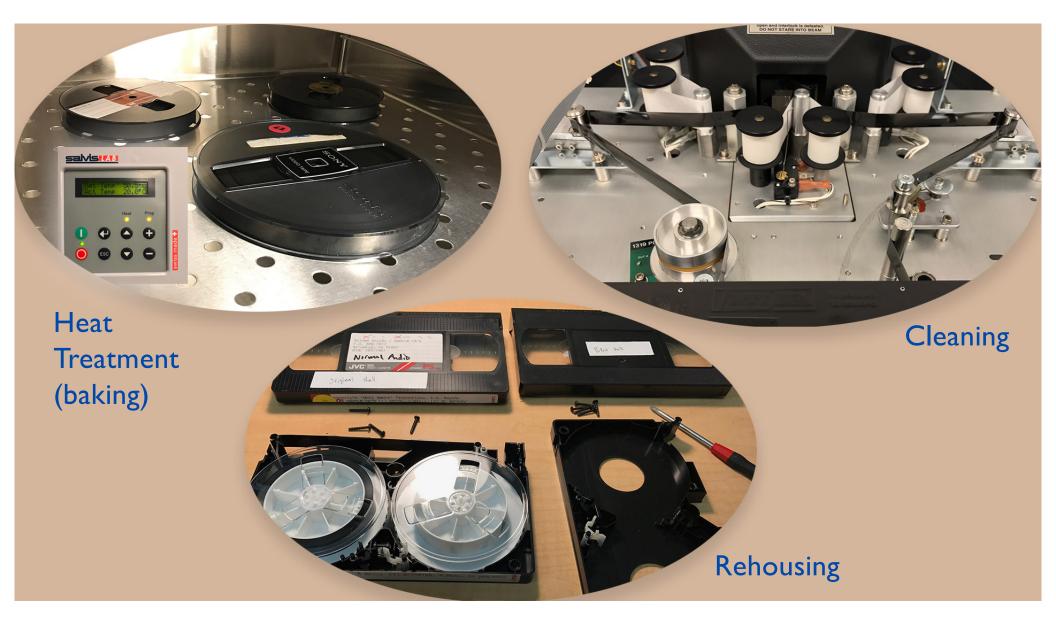
Online Exhibits (Spotlight)

Specific Questions About Problems With Digitized Moving Images ?



- AV Artifact Atlas
- Compendium of Image Errors in Analogue Video (Gfeller, Jarczyk & Phillips)
- Association of Moving Image Archivists email discussion list
- Direct contact with a specialist or technician

During the production phase of a reformatting project, whether inhouse or outsourced, what processes or activities have the most determinative effect on the quality of digitized or reformatted video ?



Machine Performance

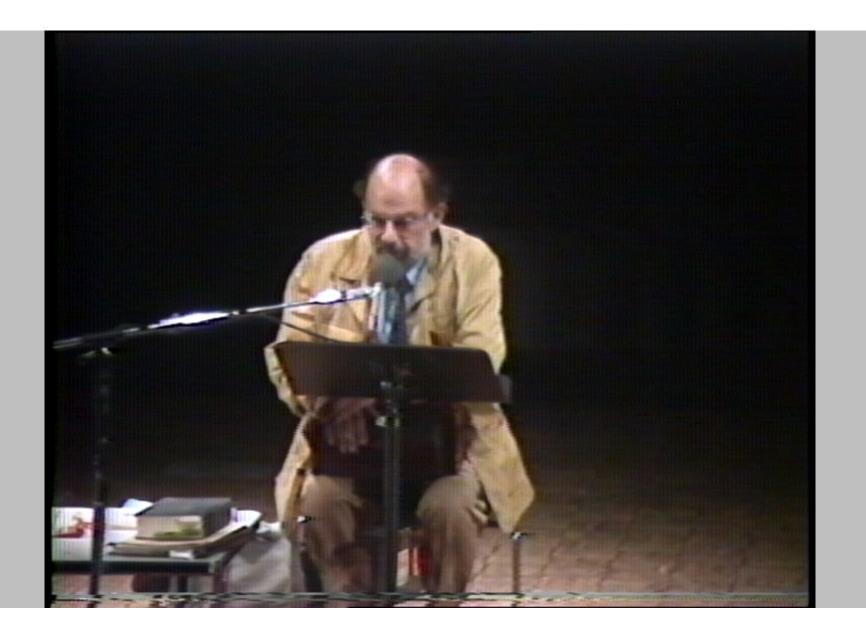


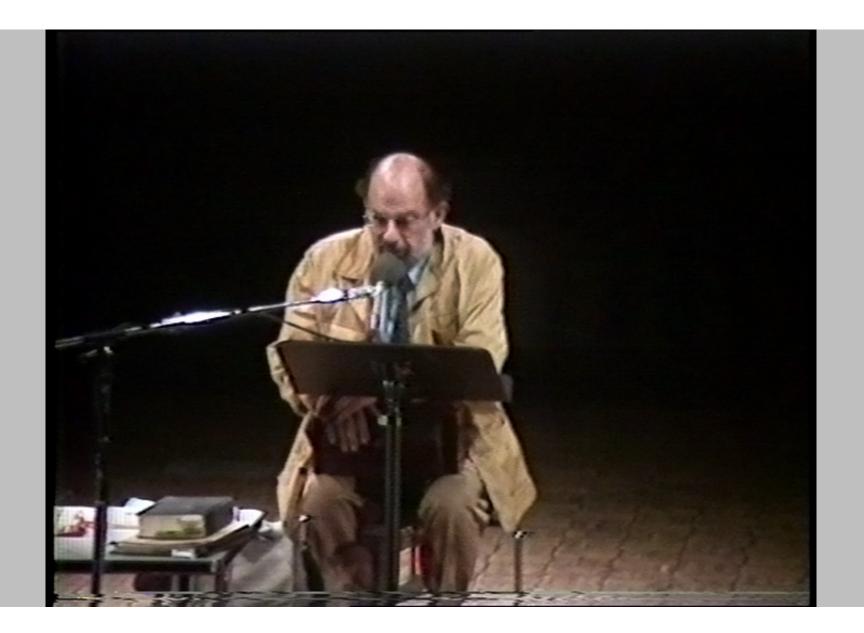
Good machines produce archival quality pictures and audio. Overused and undermaintained machines do not.

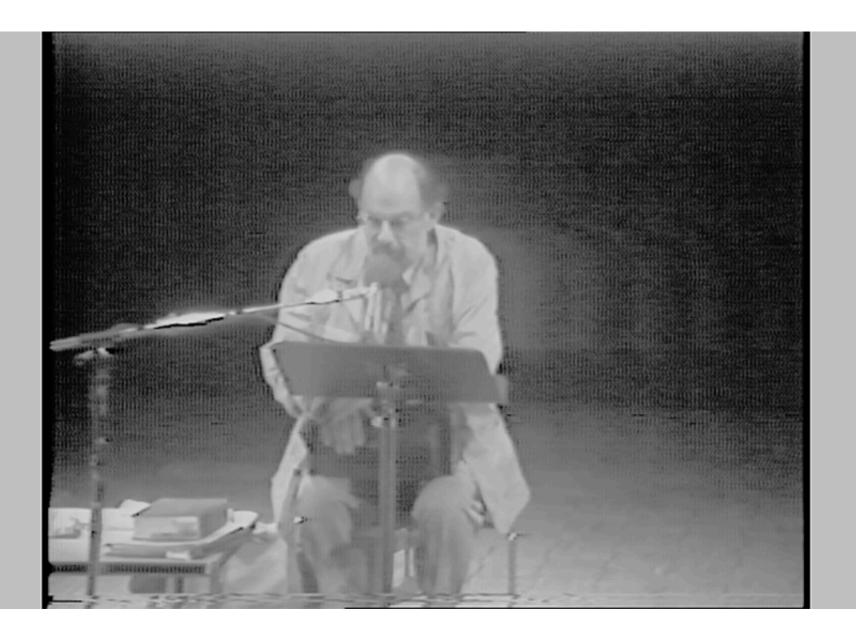
Video Signal Output Formats

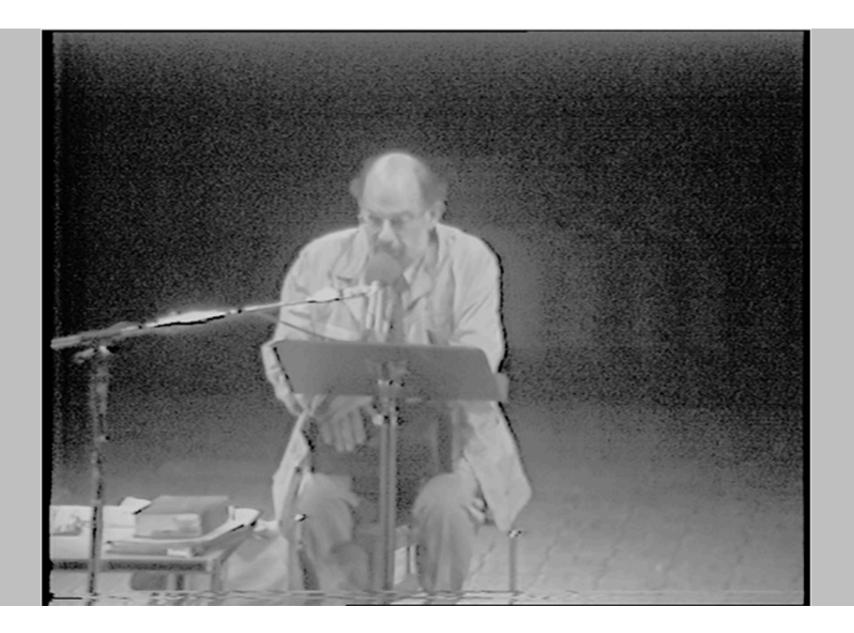


Sony BVU-950 U-matic Tape Machine (broadcast/editing use)





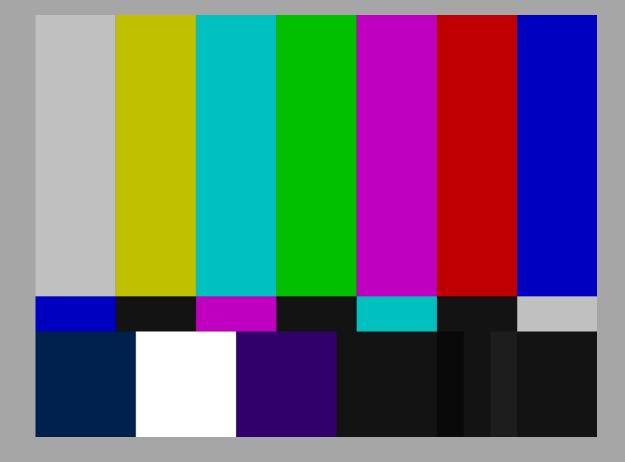




Video Signal Output Formats Recommendations

Videotape Format	Recommended Signal Output Format
U-matic	DUB (7-pin connector)
VHS or S-VHS	S-Video or Component
8mm or Hi8	S-Video
Panasonic MII	Component (Y/R-y/B-y)
Betacam & Betacam SP	Component (Y/R-y/B-y)
Digital Betacam	Component Serial Digital (SDI)

Video Levels



I recommend :

How Video Works: From Analog to High Definition

by Marcus Weise & Diana Weynand (see resource guide)

05_clipped_luminance_example_hero.mp4

MiniDV

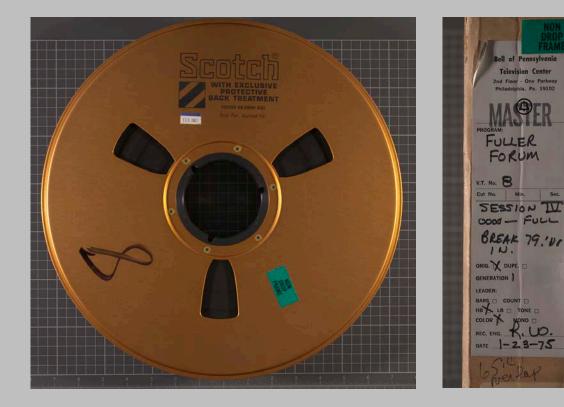


- "captured" not "digitized"
- Bits are moved from tape into file over IEEE 1394 OHCI
- Use DV Analyzer for inspection

DV Analyzer

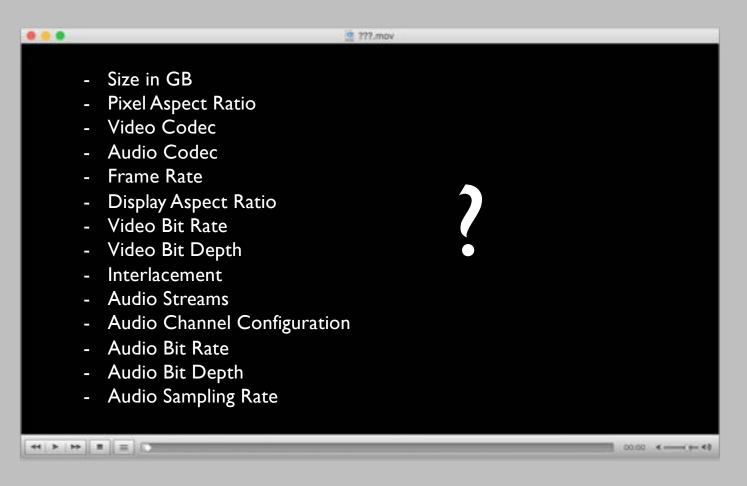
	File Summary	Frame Table	Frame Text	XML	FCP v5	FCP v6	FCP v7	MediaInfo		
DV Analyzer v.1.4.	0 by AudioVisual Preser	vation Solutions	, Inc. http://w	ww.avpre	serve.com	1				
/Volumes/BDAV1_	storage/MiniDV_ready_	to_QC/041317_	g-raid-2/ms4	75yb543	6/pm/ms	475yb5436	_pm.mov			
Frame Count: 7256	1									
Frame count with y	ideo error concealment	24 frames								
Total video error co		the second s	rrors, 3986 "	"A" errors)					
	OV timecode incoherenc	and the second se								
Frame count with A	Arbitrary bit inconsisten	cy: 2 frames								
Absolute time	DV timecode ran	ge Recorde	d date/time ra	inge			Frame rang	e		
00:00:00.000	00:00:00;22 - 00	:00:20;22	2005-11-	-04 12:4	3:15 - 2	2005-11-0	4 12:43:35	5	0 -	600
00:00:20.053	00:00:20;23 - 00	:00:42;28	2005-11-	-04 13:20	5:36 - 3	2005-11-0	4 13:26:57	,	601 -	1266
00:00:42.275	00:00:42;29 - 00		2005-11-			2005-11-0			1267 -	5287
00:02:56.443	00:02:57;04 - 00		2005-11-			2005-11-0			5288 -	11297
00:06:16.976	00:06:17;22 - 00		2005-11-			2005-11-0			11298 -	13146
00:07:18.672	00:07:19;13 - 00		2005-11-			2005-11-0			13147 -	16343
00.07.18.072	00:09:06;04 - 00		2005-11-			2005-11-0			16344 -	25989
00:09:05.345		17.21.21	2005-11-	-04 14:2		2005-11-0			25990 - 31498 -	31497
00:09:05.345 00:14:27.200 00:17:30.984	00:14:27;28 - 00 00:17:31:22 - 00		2005-11-				4 14:47:23			

Image Your Media Before Reformatting



- Preserves potentially helpful information about the record of note
- Facilitates identification of metadata/tape content mismatch

Verify Technical Metadata



MediaInfo

Command Line Interface

Iii-sm-6018-4561 my cool file for preser	my_cool_file_for_preservation — -bash — 204×60 vation mangelet\$ mediainfo -i /Users/mangelet/Desktop/my_cool_file_for_preservation/preserve_this_cool_file_for_1000_years.
General	
Complete name	: /Users/mangelet/Desktop/my_cool_file_for_preservation/preserve_this_cool_file_for_1000_years.mov
Format	: MPEG-4
Format profile	: QuickTime : qt 2005.03 (qt)
Codec ID File size	2 972 MB
Duration	36 \$ 38 ms
	: Constant
Overall bit rate	- 226 Mb/s
Encoded date	UTC 2017-04-24 20:40:18
Tagged date	: UTC 2017-04-25 03:51:36
	: Apple QuickTime 7.7.3
com.apple.quicktime.player.movie.audio.	m : (Binary)
Video	
ID	
Format	: YUV
Codec ID	: v210
Codec ID/Hint	: AJA Video Systems Xena
	: 36 s 38 ms
	: 36 s 69 ms
Bit rate mode Bit rate	: Constant : 224 Mb/s
Width	224 novs 720 pixels
Clean aperture width	7 704 pixels
Height	: 486 pixels
Clean aperture height	: 480 pixels
Display aspect ratio	
Clean aperture display aspect ratio	
Frame rate mode	: Constant
Frame rate	: 29.970 (29970/1000) FPS
Standard Color space	: NTSC : YUV
Chroma subsampling	: 4:2:2
Bit depth	10 bits
Compression mode	Lossless
Bits/(Pixel*Frame)	21.333
Stream size	: 961 M1B (99%)
	: 962 M1B (99%)
Language	: English
Encoded date	: UTC 2017-04-24 20:40:02 : UTC 2017-04-25 03:51:36
Tagged date Color primaries	: 01/ 2017-04-25 03:51:30
	: BT.709
Matrix coefficients	8T.601
Audio ID	
Format	: 2 : PCM
Format settings, Endianness	- Fun
Format settings, Sign	Signed
Codec ID	: in24
Duration	: 36 s 38 ms
Bit rate mode	: Constant
Bit rate	: 2 304 kb/s
Channel(s)	: 2 channels
Channel positions Sampling rate	: Front: L R : 48.0 kHz
Bit depth	24 bits
bite bepen	

MediaInfo

Graphical User Interface

	Medialn	fo				
	/Users/mangelet/Desktop/bx903qx4569_sl.mp4					
	General					
-	MPEG-4 (Base Media): 32.8 MiB, 5 min 5 s	Overall bit rate: 901 kb/s				
	1 Video stream: AVC	Encoded date: UTC 1904-01-01 00:00:00				
	1 Audio stream: AAC	Tagged date: UTC 1904-01-01 00:00:00				
6	1 Other stream: QuickTime TC	Writing application: Lavf57.56.101				
	Go to the website of a player for this file Video					
	765 kb/s (1 000 kb/s), 640*480 (4:3), at 29.970 (30000/1001) FPS, AVC (High@L3.2) (CABAC / 16 Ref Frames)					
	Go to the website of this codec					
	Audio					
	128 kb/s, 48.0 kHz, 2 channels, AAC (LC)					

Media Info Mac v0.7.36

		MediaInfo Mac
0	0	
e	U	V
Open File	Export	Updates
T Genera	al / Container Stream #1	
Tota	al Video Streams for this	File : 1
Tota	al Audio Streams for this	File : 1
Vide	eo Codecs Used : AVC	
Aud	io Codecs Used : AAC L	c
File	Format : MPEG-4	
Play	Time : 8mn 50s	
Tota	al File Size : 72.5 MiB	
Tota	al Stream BitRate : 1 14	7 Kbps
Ence	oded with : Lavf56.25.1	01
▼ Video S	Stream #1	
Cod	lec (Human Name) : AVO	
Cod	lec (FourCC) : avc1	
Cod	lec Profile : High@L3.0	
Fran	me Width : 640 pixels	
Fran	ne Height : 480 pixels	
Fran	ne Rate : 29.970 fps	
Tota	al Frames : 15888	
Disp	blay Aspect Ratio : 4:3	
Scar	n Type : Progressive	
Colo	or Space : YUV	
Cod	lec Settings (Summary)	: CABAC / 4 Ref Frames
	(like Gordian Knot) : 0.1	
Cod	lec Settings (CABAC) : Y	′es
Cod	lec Settings (Reference	Frames) : 4
Vide	eo Stream Length : 8mn	50s 130ms
Vide	eo Stream BitRate : 950	Kbps
Vide	eo Stream BitRate Mode	: VBR
Bit D	Depth : 8 bits	
Vide	o Stream Size : 59.9 M	iB (83%)
Vide	eo Encoder : x264 - con	e 144 r2533 c8a773e
Vide	eo Encoder (Settings) : d	cabac=1 / ref=3 / deblock=1:0:0 / analyse=0x3:0x
Vide	eo Stream Language : Ei	nglish
▼ Audio S	Stream #1	
Cod	lec : AAC	
Cod	lec (FourCC) : 40	
Aud	io Stream Length : 8mn	50s 243ms
Aud	io Stream BitRate : 192	Kbps
Aud	io Stream BitRate Mode	: VBR
Num	nber of Audio Channels	: 2
Aud	io Channel's Positions :	Front: L R
Sam	pling Rate : 44.1 KHz	
Publis	sn	xs556dn3633_sl.mp4

Avoiding Mishaps

- Provide appropriate technical details in your specifications
- Speak with a production manager or entire production team, if possible

Don't have vendors return tapes until they have resolved any QC concerns with files

A Few Examples of Issues with Outsourced Digitization

06_long_play_wrong_machine_bad_hero.mp4

07_long_play_right_machine_good_hero.mp4

08_mystery_problem_comp_hero.mp4

http://bit.ly/scavideoqc



Thank You SCA !