

DOT: Building a Document Organization Tool for Domain Experts





Public Defender

Prior Cases involving Officer Tom

- Patterns
- Misconduct filings

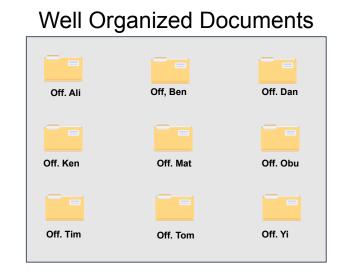


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In an ideal scenario...



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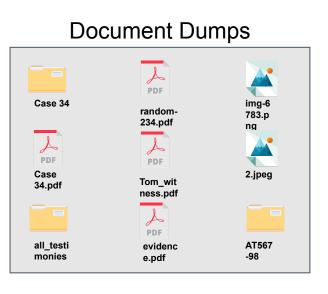
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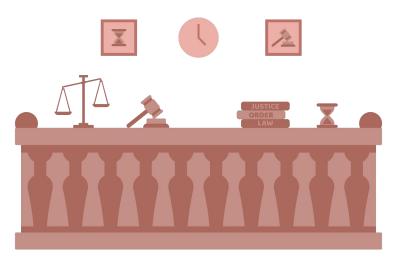


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1. Volume of data makes it hard to work through manually.



1. Volume

2. Duplicate files exist with in the data, wasting manual efforts in processing.

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1. Volume.

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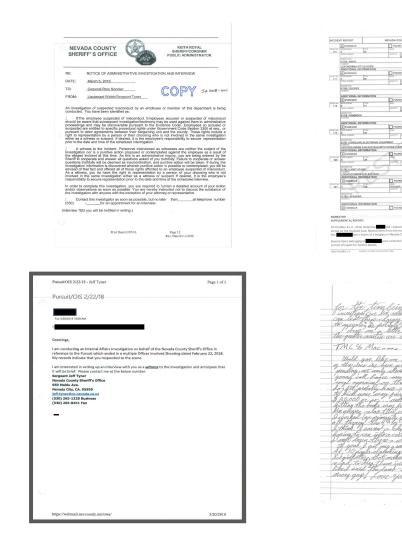
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An investigation of suspected misconduct by an employee or member of this department is being conducted. You have been identified as:		069092104		IBLK IBLK	R
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investigation intormation is discovered wherein punitive action is possible or contemplated, you will be advised of that fact and offered all of those rights afforded to an employee suspected of misconduct		E-781 / LIGHT ST	AND		
As a witness, you do have the right to representation by a person of your choosing who is not		ADDITIONAL IN		1	
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Contact this investigator as soon as possible but no later, than at telephone number		E-759 / SPEAKER			
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3. Data exhibits different page types, making it hard to find the data points of interest fast.



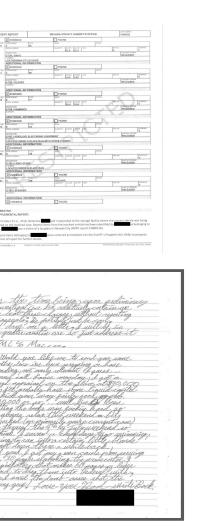


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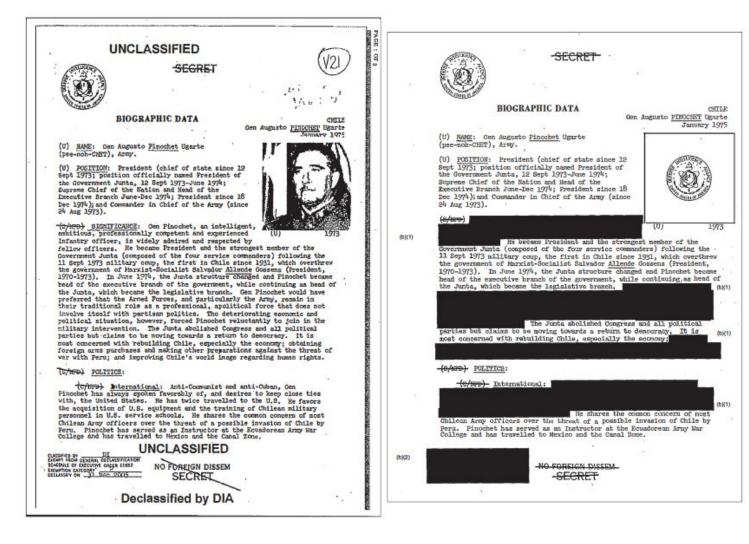
types, making it hard to find the data points of interest fast.

NEVADA COUNTY SHERIFF'S OFFICE	a.	11/0 / 11/0
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RE: NOTICE OF ADMINISTRATIVE INVESTIGATION AND INTERVIEW		
DATE: March 5, 2018		117
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FROM: Lieutenant Walsh/Sergeant Typer	010 - 001	
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An investigation of suspected misconduct by an employee or member of this departn conducted. You have been identified as:	t is being	
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the alleged incident at this time. As this is an administrative inquiry, you are being or Sheriff to cooperate and answer all questions asked of you truthfully. Failure to coopera	ed by the or answer	120
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Une investigation with anyone with the exception of your attorney or representative. Contact this investigator as soon as possible, but no later than at televit	e number	
(530)for an appointment for an interview.		
Interview TBD you will be notified in writing.)		
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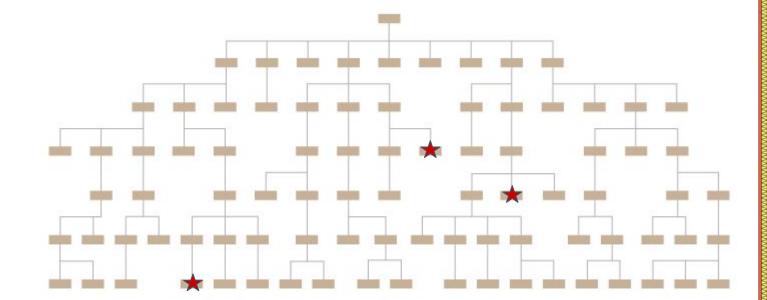


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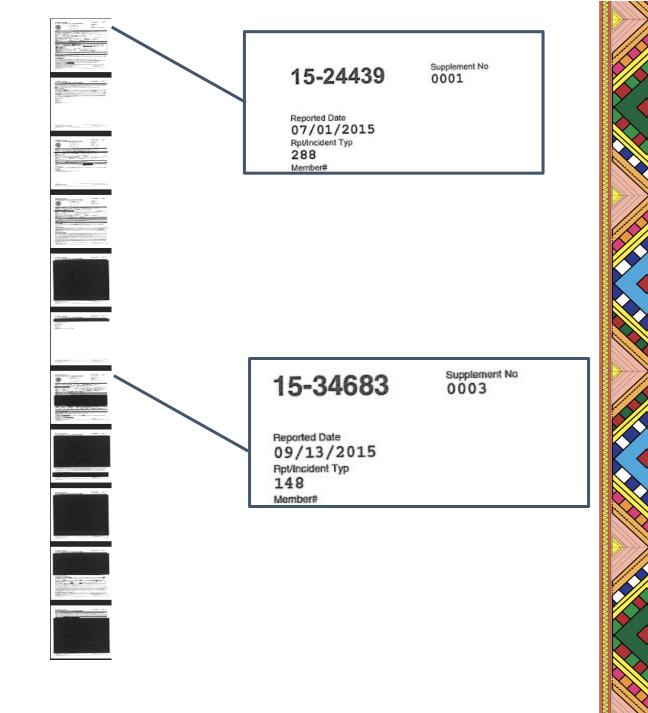
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MEMORANDUM FOR THE DEPUTY SECRETARY OF DEFENSE	MEMORANDUM FOR THE DEPUTY SECRETARY OF DEFENSE
Subject: Draft of Revised NSDD 32 (20)	Subject: Draft of Revised NSDD 32
 (5) The enclosed memorandum to the Office of the National Security Advisor to the President responds to the National Security Council's request* for comments on the draft revision of the US National Security Strategy, NSDD 32. 	 (2) The enclosed memorandum to the Office of the National Security Advisor to the President responds to the National Security Council's request* for comments on the draft revision of the US National Security Strategy, NSDD 32.
2. (U) Request you forward the enclosed memorandum to the Office of the National Security λdv isor to the President.	2. (U) Request you forward the enclosed memorandum to the Office of the National Security Advisor to the President.
3. (U) This memorandum is regraded Secret when separated from Top Secret enclosure.	 (U) This memorandum is regraded Secret when separated from Top Secret enclosure.
For the Joint Chiefs of Staff: M.F. Latter, JR. P. F. CARTER, JR. Vice Admiral, USN Director, Joint Staff Breference: * Executive Secretary to the NSC Memorandum, 8 July 1986, subject as above DECLASSIFIED :: <u>OD, 15, MSC</u> DATE <u>21 Oct 1016</u>	For the Joint Chiefs of Staff: P. F. CARTER, JR. P. F. CARTER, JR. Vice Admiral, USA Director, Joint Staff Beference: * Executive Secretary to the NSC Memorandum, 8 July 1986, subject as above
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- 3. Page Types.
- 4. Quality of pages.
- 5. Files of the same case spread across several folders.



- 1. Volume.
- 2. Duplicates.
- 3. Page Types.
- 4. Quality of pages.
- 5. One case; several files.
- 6. Multiple cases might be found in a single PDF.



How Abbott Kept Sick Babies From Becoming a Scandal

Abbott's lawyers at Jones Day negotiated secret settlements and used scorched earth tactics with families whose infants fell ill after consuming powdered formula.



Not just Public Defenders...



By David Enrich David Enrich, the business investigations editor for The New York Times, is the author of the forthcoming book, "Servants of the Damned: Giant Law Firms, Donald Trump, and the Corruption of Justice," from which this article is adapted.

Published Sept. 6, 2022 Updated Sept. 8, 2022

Early on a Saturday morning in 2013, Mark Bennett, a federal judge, walked into his chambers in the courthouse in Sioux City, Iowa. He'd been out of town for a speaking engagement and was hoping to catch up on work. A surprise awaited him as he entered his office: Cardboard boxes were stacked everywhere. His



How Abbott Kept Sick Babies From Becoming a Scandal

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Max Guthe

🖀 10 Gift Articles 🔗 🗍 📮 505

David Errich David Errich, the business investigations editor for The New York Times, is the author of the forthcoming book, "<u>Servants of the Damned</u>: Giant Law Firms, Donald Trump, and the Corruption of Justice," from which this article is adapted. Isade Serve, 6:202 (Under Serv. 8: 2022)

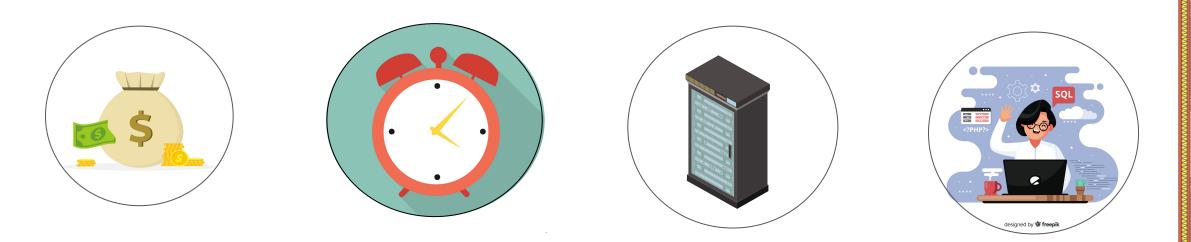
Early on a Saturday morning in 2013, Mark Bennett, a federal judge, walked into his chambers in the courthouse in Sloux City, Iowa. He'd been out of town for a speaking engagement and was hoping to catch up on work. A surprise awaited him as he entered his office: Cardboard boxes were stacked everywhere. His



Not just Public Defenders...









There is a clear need for a data organization and cleaning tool for such domain experts who work with limited time, budget and technical expertise.



Exact Duplciate Detection

import the request networks reactions? from dotlibrary.exact_duplicate_functions import HashPages, threshold_by_percent, threshold_by_number_of_matched_pages # run HashBages Function to get the duplicate info on file level, a datafrmae for visualization and a dataframe with representative pages selected file level df, reduced df=HashPages(dataset path="/home/alice/wonderland dataset/")

#set conditions for filtering exact duplciates condition l=threshold_by_percent(file_level_df, min_page_in_file=2, max_page_in_file=20,min_percentage_value=40) condition_2=threshold_by_number_of_matched_pages(file_level_df, max_page_in_file=10, max_page_in_file_match=5)

import functions for visualizing

 $from \ dot library. exact_duplicate_functions \ import \ visualize_file_pairs, \ print_duplicate_info$

print_duplicate_info([condition_2])

path_l='/home/alice/wonderland dataset/pages/main.pdf'
path_2='/home/alice/wonderland dataset/pages/wolf_11.pdf'
file_a, file_b=visualize_file_pairs(path_1, path_2)

Near Duplicate Detection

import the classifer and pair correlation function and pass the dataset path along with the name of # the page types we want to find near duplciates for. from dotlibrary.near duplicate detection functions import ClassifyAndGetPairCorrelation

correlation_df=ClassifyAndGetPairCorrelation('/home/alice/wonderland dataset/', ['form', 'image', 'narrative'])

from dollibrary.near_duplicate_detection_functions import plot_pairs_of_pages plot_pairs_of_pages(correlation_off, ['form'], 10, threshold=0.6, random=True, sort_acending=False) plot_pairs_of_pages(correlation_off, ['image'], 3, threshold=0, random=True, sort_acending=False)

from dotlibrary.near_duplicate_detection_functions import set_correlation_threshold, print_near_duplicate_information
filtered_df=set_correlation_threshold(correlation_df, {'form': 0.9, 'image': 0.77})

print near duplciate information(filtered df)

from dotlibrary.near_duplicate detection_functions import visualize_file_pairs
sample 8, sample_14=visualize_file_pairs('sample 8.pdf','sample 14.pdf')
sample 8

casel=caseFiles(highlight_text(doc_data, highlightedcase', 'CaseNumber', cal))
case2=caseFiles(highlight_text(doc_data, 'highlightedcase', 'CaseNumber', ca2))
case4=caseFiles(highlight_text(doc_data, 'highlightedcase', 'CaseNumber', ca3))
case4=caseFiles(highlight_text(doc_data, 'highlightedcase', 'CaseNumber', ca4))

caseList=[]
caseList.append(casel)
caseList.append(case2)
caseList.append(case3)
caseList.append(case3)

cal=get_similar_casenumbers(doc_data, 13)
ca2=get_similar_casenumbers(doc_data, 6)

ca3=get_similar_casenumbers(doc_data, 12)

ca4=get similar casenumbers(doc data, 3)

Data Organization

demo=connections()
for ind in doc data.index:

Data Extraction

from dotlibrary.data extraction functions import extract_with_bbox, clean_entity_list
listOfMames=get_named_entites(extracted_df['Text'], 'PERSON')
listOfDates=get_named_entites(extracted_df['Text'], 'DATE')
listOfLocations=get_named_entites(extracted_df['Text'], 'LOCATION')
listOfCaseNumbers= extract with bbox([100, 700, 200, 400], encoded dataset, processor, 'form')

cleanNames=clean_entity_list(cleanNameList, listOfNames)
cleanDates=clean_entity_list(cleanDateList, listOfDates)
cleanLocations=clean_entity_list(['drive', 'highway', 'state', 'park', 'city'], listOfLocations, minLen=15, maxLen=100)

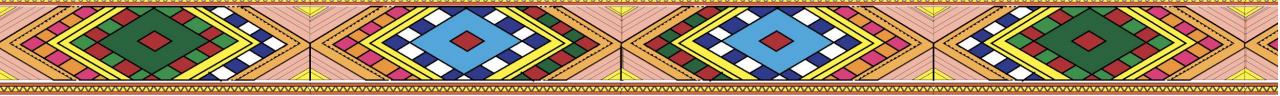
set_entity_breakdown(extracted_df, 'CaseNumber', listOfCaseNumbers)
set_entity_whole(extracted_df, 'Location', cleanLocations)
set_entity_whole(extracted_df, 'Date', cleanLocations)
set_entity_whole(extracted_df, 'Names', cleanLocations)

set_entities_doc(extracted_df, doc_data, 'CaseNumber')
set_entities_doc(extracted_df, doc_data, 'Names')
set_entities_doc(extracted_df, doc_data, 'Date')
set_entities_doc(extracted_df, doc_data, 'Location')

19



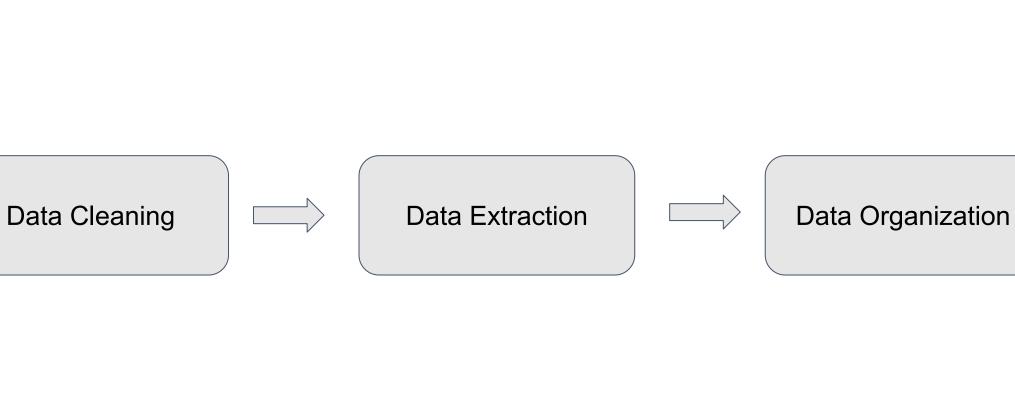




• Implementation

• Programming paradigm







Exact Duplicate Detection

Page Type Classification

Near Duplicate Detection

Named Entity Extraction

Regular Pattern Matching

Splitting large files Grouping related files



Problem Statement

Document scanning, redaction, handling, and storing practices result in data duplication in large document dumps.

- Save compute resources.
- Train models efficiently.

- Humans are manually extracting data; identifying duplicates to avoid repeated processing.
- Know the status of their data.
- Information on how departments are sharing data.



Data Cleaning

Exact Duplicates

Exact pixel-for-pixel copies of the same page.

May appear in same or different folders.

Smaller document may be included in larger document.

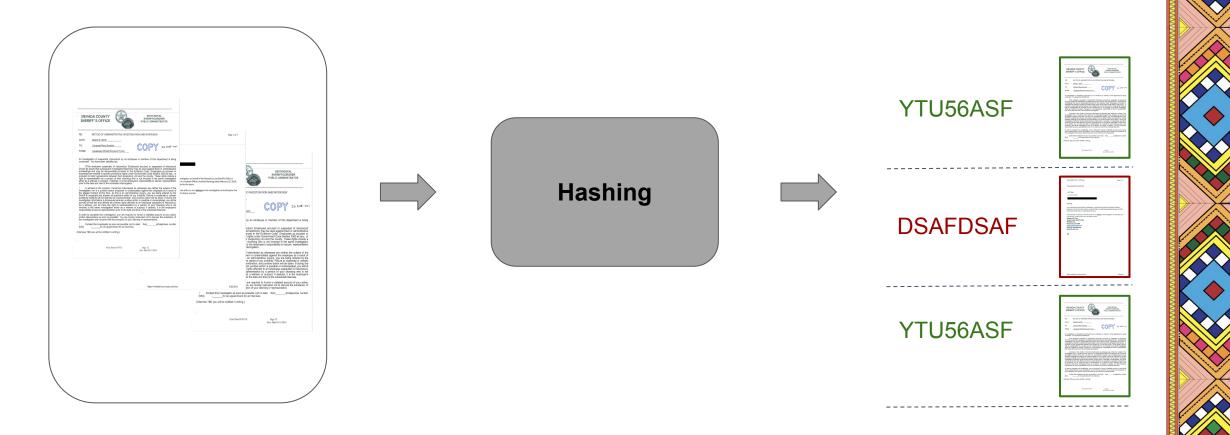
Near Duplicates

Same physical page in the real world.

May include different types/levels of redaction.

May come from different scans.

Exact Duplicate Detection



Exact Duplciate Detection

import the required fuctions from the library.
from dotlibrary.exact_duplicate_functions import HashPages, threshold_by_percent, threshold_by_number_of_matched_pages
run HashPages Function to get the duplicate info on file level, a datafrmae for visualization and a dataframe with representative pages selected for processing.
file level df, reduced df=HashPages(dataset path="/home/alice/wonderland dataset/")

#set conditions for filtering exact duplciates
condition_1=threshold_by_percent(file_level_df, min_page_in_file=2, max_page_in_file=20,min_percentage_value=40)

condition_2=threshold_by_number_of_matched_pages(file_level_df, max_page_in_file=10, max_page_in_file_match=5)

import functions for visualizing
from dotlibrary.exact_duplicate_functions import visualize_file_pairs, print_duplicate_info

print_duplicate_info([condition_2])

path_1='/home/alice/wonderland dataset/pages/main.pdf'
path_2='/home/alice/wonderland dataset/pages/wolf_11.pdf'
file_a, file_b=visualize_file_pairs(path_1, path_2)



Problem Statement

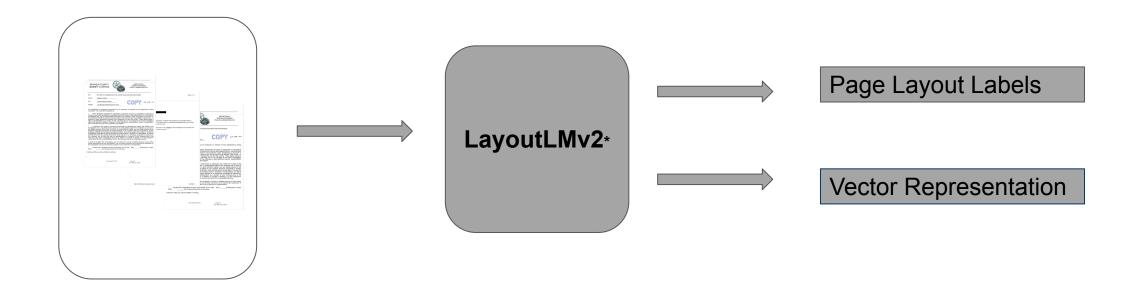
PDF files have different types of pages such as forms, narratives, interviews, and letters.

Apply different strategy for different layouts

Sometimes they are only interested in one format.



Page Type Classification



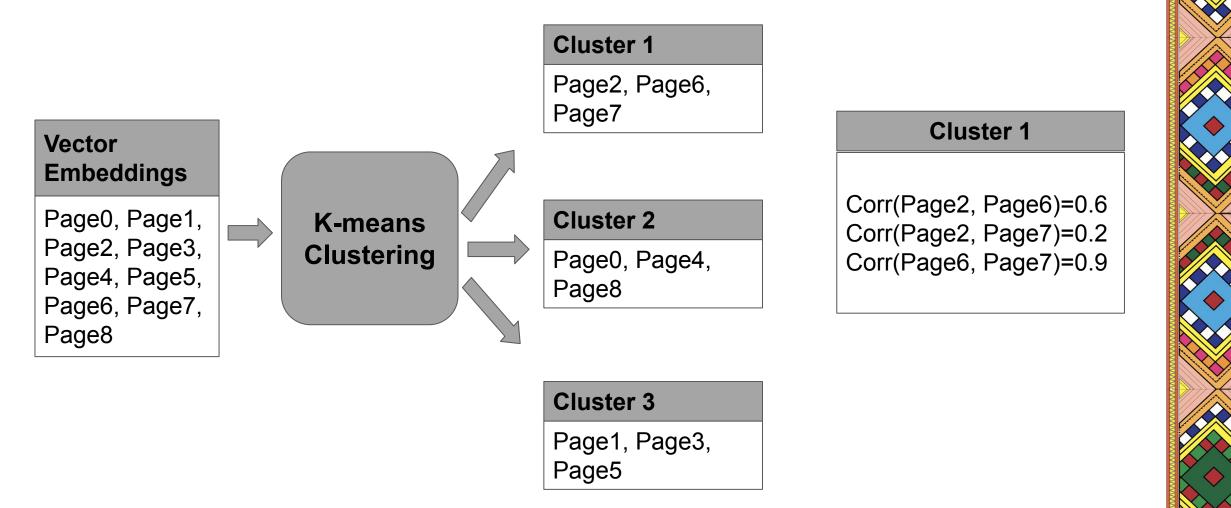
Page Type Classification

Fine Tuning with 6k pages manually annotated:

- Training Accuracy: 83.78%
- Validation Accuracy: 84.11%
- Test Accuracy: 83.52%

Time for training: around 6 hours. Time for labeling: around 6 hours.

Near Duplicate Detection



N	ear Duplicate Detection	
	<pre># import the classifer and pair correlation function and pass the dataset path along with the name of # the page types we want to find near duplciates for. from dotlibrary.near_duplicate_detection_functions import ClassifyAndGetPairCorrelation correlation_df=ClassifyAndGetPairCorrelation('/home/alice/wonderland dataset/', ['form', 'image', 'narrative'])</pre>	Þ≣ Þ _r Þ₊
	from dotlibrary.near_duplicate_detection_functions import plot_pairs_of_pages plot_pairs_of_pages(correlation_df, ['form'], 10, threshold=0.6, random=True, sort_acending=False) plot_pairs_of_pages(correlation_df, ['image'], 3 ,threshold=0, random=True, sort_acending=False)	
	from dotlibrary.near_duplicate_detection_functions import set_correlation_threshold, print_near_duplciate_information filtered_df=set_correlation_threshold(correlation_df, {'form': 0.9, 'image': 0.77})	
	<pre>print_near_duplciate_information(filtered_df)</pre>	
	from dotlibrary.near_duplicate_detection_functions import visualize_file_pairs sample_8, sample_14=visualize_file_pairs('sample 8.pdf','sample 14.pdf') sample_8	



Problem Statement

Different page types and institution formats result in difference of how data points are extracted.

Challenges

Data Extraction

Agency STOCKTON P	OLICE DI	3PARTME	NT	DR 15-24439	~ 1	Supplement No 0003	Reported Date 08/05/2015	Reported	
CAD Call No 151820168	Status RTF	INVESTI	GATIO	20042 BODY 800000	ident Typ		IOUS CONDUCT	:	
									Stockton
ZIP Code 95212	Rep Dist 0363	District VA	Sector VS	From Date 05/28/2	2015	From Time 20:00	To Date 05/28/2015	To Time 20:00	
Member# 2610/ Doe.	John					Assignment CHILD A			T PHASE 1
Entered By 2610	Assignment	ABUSE/S	EXUAL	ASSAULT	PHAS	SE 1	RMS Transfer Successful	Prop Trans	stat ssful
Approving Officer 1357			/07/20	015		val Time 06:43			

Data Points of Interest

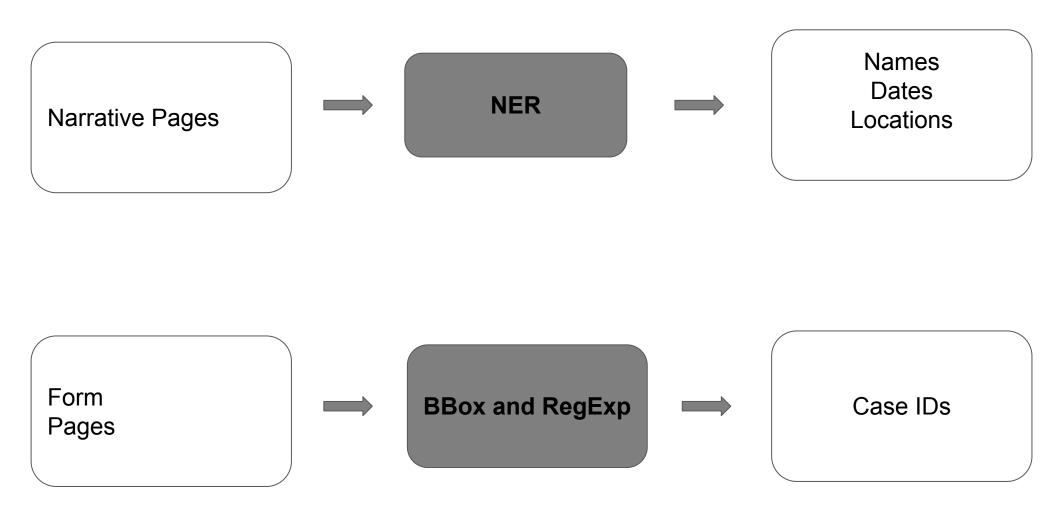
- Names of officers
- Date of Incidence
- Case Number
- Location

On August 4, 2015 I went back to sector address but did not locate John's vehicle. I called sector advised me that John was not staying with her but that she had seen the week prior. She said she did not know where he was and did not know what was going on between him and sector. She said she did not want to know what was going on. I told her to have John come to the police department to speak with me.

When I returned to the office I received a phone call from a man who identified himself as John John gave me the following summarized statement:

The following interview was digitally recorded and has been summarized below. The purpose of the summary is to render an overview of what was described; however, they are not transcriptions of the recorded interview. The summary should not be viewed as containing only the important facts of the interview. They are intended to provide the reader with a general understanding of what was said; therefore, refer to the recording itself for the exact wording.

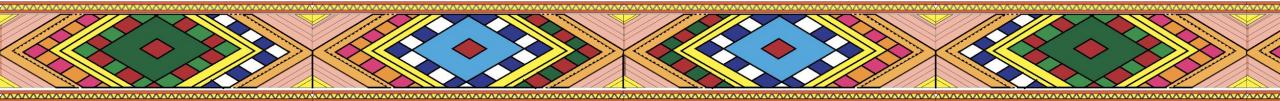
Data Extraction



Data Extraction

```
from dotlibrary.data extraction functions import extract with bbox, clean entity list
listOfNames=get named entites(extracted df['Text'], 'PERSON')
listOfDates=get named entites(extracted df['Text'], 'DATE')
listOfLocations=get named entites(extracted df['Text'], 'LOCATION')
listOfCaseNumbers= extract with bbox([100, 700, 200, 400], encoded dataset, processor, 'form')
cleanNames=clean entity list(cleanNameList, listOfNames)
cleanDates=clean entity list(cleanDateList, listOfDates)
cleanLocations=clean entity list(['drive', 'highway', 'state', 'park', 'city'], listOfLocations, minLen=15, maxLen=100)
set entity breakdown(extracted df, 'CaseNumber', listOfCaseNumbers)
set entity whole(extracted df, 'Location', cleanLocations)
set entity whole(extracted df, 'Date', cleanLocations)
set entity whole(extracted df, 'Names', cleanLocations)
set entities doc(extracted df, doc data, 'CaseNumber')
set entities doc(extracted df, doc data, 'Names')
set entities doc(extracted df, doc data, 'Date')
set entities doc(extracted df, doc data, 'Location')
```





Te	File	r Location	Date	CaseNumber	Names	
CAD Operations Report SOLANO COUNTY DISPATCH C	Sevens_2007_Redaced3100001	[1515 east 4th street benicia, apartment build	[05/03/07, 05/03/2007, 05/07/2007, 05/09/2007]	[01-07-001014, CR07-2908, VCM097845]	[1s13, address, admin leave, al garza, aldo se	
CONFIDENTIAL DEPARTMENT OF MOTOR VEHICLE DMV	Samle_2004_Redaced260001	[12 sandy beach vallejo, sandy beach road, san	[01/02/2003, 05/08/2003, 11/28/2004]	[0227308, CR04-8569, CR04-8969]	[1s13, address, anthony, anthony evans, anthon	
11 12 2019 Incident Summary FRONT BACK 1 A 2	Kennedy_Ble_Team_(Redaced)10001	[solano county sheriff]	[02/26/2017]	[17000412]	[autry, bryan glenn, citizen, cont, denton, en	
POBLETE SCJ436 OLANO COUNTY SHERIFF S OFFI 02	KENNEDY,_Michael_(Redaced)00001	[01 jcdf booking housing, 01 jcdf booking hous	[02/26/17, 02/26/2017]	[17000412, CR17-1007]	[address, appel, bigarani, chase, citizen, con	
11 12 2019 Incident Summary Pursuit Distance	Mah_Ble_Team_(Redaced)00001	[1955 grande circle, solano county sheriff]	[01/17/2018]	[18-0251]	[address, anthony, anthony mah, arabia, autry,	23
CAD Operations Report 155 SOLANO COUNTY SHERI	Mah,_Anhny_Redaced_+_CC10001	[1955 grande circle, e80 // leisure town, sola	[01/17/2018, 2018/01/17]	[18-0251, CR18-0251]	[address, anthony, anthony mah, arabia, caller	
Page 1 Use of force Control FN2018 0105 R	K9_Use_f_Frce_R_06.05.18_(redaced)1_Redaced10001	NaN		[18-3027]	[address, arabia, autry, citizen, cont, demare	
SOLANO COUNTY SHERIFF S OFFICE Page c CA048	Dran-Garcia_Salvadr_Redaced+CC00001	[kilkenny byrnes vacaville california 95688, k	[06/05/2018, 06/07/18, 09/18/2018, 12/10/18, 2	[18-3027, CR18-3027]	[address, alex sanchez, alfred smith, arabia,	
KAMMAN SCJ311 SOLANO COUNTY SHERIFF S OFFI	Raygza_Lis10001	[01 jcdf booking male dressout, solano county	[12/05/2018, 12/06/2018]	[18002415]	[chapman, cont, gojkovich, kamman, left, offic	10
FRONT BACK 1 A 2 7 1 C 2 3 C 3 8 4 H 4 D C	Raygza_Ble_Team_Redaced00001	[solano county sheriff]	[12/05/2018]	[18002415]	[bill elbert, bradley, citizen, cont, elbert,	
Coroner and Public Administrator SOLANO JAMES	899-1497-CCI-228_Clark_Dglas_Preliminary_Rer_R	[2401 port street, solano county sheriff]	[08/20/1999, 08/20/99, 08/23/99, 08/24/99]	[849-1497-eCl-228, 899-1497-CCl-228, 899- 7497	[address, brian, brook byerley, bryan braker,	26
BRYAN BRAKER FUNERAL HOME AND FUNER DIRECTO	899-1497-CCI-228_ClarkDglas_Release_Frm_Orig	NaN	[06/23/99, 08/20/99]	[899-1497-CCI-228]	[bryan braker, clark, doug, douglas, fairfield	
AUTOMATED LATENT PRINT SECTION 530 Union Aven	899-1497-CCI-228_Clark,_Dglas_Fingerrin_Cmaris	NaN	[08/20/99]	[899-1497-CCI-228]	[clark, doug, douglas, fairfield, gary faulkner]	13
SOLANO COUNTY CORONER S OFFICE JAMES E O BRI	899-1497-CCI-228_Clark,_Dglas_Mrge_Cnrl_Frm_Or	NaN	[08/20/99, 08/23/99]	[899-1497-CCT-228]	[clark, cont, doug, douglas, locker, solano, s	27
COPIES TO SOLANO COUNTY SHERIFF S OFFICE CAS	Clark_1999_Redaced350001	[5053 noonan lane faifield, 5053 noonan lane f	[08/10/19, 08/20/99, 08/21/99, 08/23/99, 08/24	[AI99-50, CR99-5601, CR99-5601 (DA 99-205)]	[1lS4, 1s13, address, angry, arabia, baffico,	
CA04800 SOLANO COUNTY SHERIFF S OFFICE Page	Cllinge_2012_Redaed340001	[collins ville rdc fire house rd, fire truck r	[10/13/2012, 10/15/2012, 10/16/2012, 10/18/12,	[CR02-4759, CR12-4759]	[1s13, 94571, aaron dillon, aaron dillon page,	
CONFIDENTIAL DEPARTMENT OF MOTOR VEHICI DM	Elber_2012_Redaced280001	[apartment building, ronpway 1fo 900 pase, sol	[02/01/1300, 02/12/12, 02/14/12, 02/15/12, 02/	[CR12-0689]	[1154, aaron dillon, aaron dillon page, adante	
11 12 2019 Incident Summary Officer Assessmer	Dran-Garcia_Ble_Team_(Redaced)20001	[solano county sheriff]	[06/05/2018]	[CR18-3027]	[arabia, autry, christopher cavazos, citizen,	24
11 12 2019 Incident Summary FRONT BACK 1 A	Threadgill_Ble_Team_(Wrking_Cy)00001	[solano county sheriff]	[09/03/2018]	[CR18-4574]	[anthony, anthony kasper, autry, bush, charles	17
Page 3 and taken to surgery Threadgill was	K9_Use_f_Frce_R_09.03.18_(redaced)1_Redaced10001	NaN		[CR18-4574]	[anthony, autry, bush, charles, charles thread	20
CONFIDENTIAL DEPARTMENT OF MOTOR VEHICI DM	Threadgill,_Charles_Redaced_+CC20001	[solano county sheriff]	[09/03/18]	[CR18-4574]	[address, anthony, bush, charles, charles thre	16
SOLANO COUNTY SHERIFF 911 COMMUNICATIONS	AnglRal_Redaced+CC00001	[solano county sheriff]	[10/18/12, 12/10/18, 12/10/2018, 2018/12/10]	[CR18-6148]	[address, angulo, app02 ps, arabia, axon body,	11
11 12 2019 Incident Summary Solano County Sh	Angl_Ble_Team_(Redaced)10001	[solano county sheriff]	[12/10/2018]	[CR18-6148]	[angulo, arabia, autry, axon body, bush, chase	14
Aug 24 99 03 08P Bryan Braker F H 707425735	899-1497-CCI-228_Clark,_Dglas_Deah_Cerificae_R	NaN	[08/20/1999, 08/23/1999]	NaN	[bryan braker, carolyn clark, charles, charles	
Alternatively you may appeal the final deci	Jseh,_Michael_12-24-2007_redaced120001	[solano county sheriff]		NaN	[anthony, chase, citizen, cont, fairfield, fer	
STATE OF CALIFORNIA ss County of Solano In	899-1497-CCI-228_Clark_Dglas_Saemen_f_Fac_Orig	NaN		NaN	[brian, brian peterson, clark, doug, douglas,	
SOLANO COUNTY SHERIFF CORONER S OFF CORONE	899-1497-CCI-228_Clark_Dglas_Case_Invenry_Orig	[solano county sheriff]		NaN	[clark, cont, cover, doug, douglas, douglas cl	
DC ECEIVED JF Gary R Stanton 707 42 1 7	Jseh,_Michael_11-30-2007_redaced140001	[solano county sheriff]		NaN	[chase, citizen, cont, fairfield, ferrara, gar	
DC JF a Gary R Stanton 707 42 1 7000 T Sh	Jseh,_Michael_12-04-2007_redaced20001	[solano county sheriff]		NaN	[chase, citizen, cont, fairfield, ferrara, gar	28

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Problem Statement

A particular case might be spread across several PDFs or multiple cases might be together in one PDF.

Data Organization

	>		
Date	Location	File	Text
05/03/07, 05/03/2007, 05/07/2007, 05/09/2007]	[1515 east 4th street benicia, apartment build	Sevens_2007_Redaced3100001	CAD Operations Report SOLANO COUNTY DISPATCH C
02/2003, 05/08/2003, 11/28/2004]	[12 sandy beach vallejo, sandy beach road, san	Samle_2004_Redaced260001	CONFIDENTIAL DEPARTMENT OF MOTOR VEHICLES DMV
[02/26/2017]	[solano county sheriff]	Kennedy_Ble_Team_(Redaced)10001	11 12 2019 Incident Summary FRONT BACK 1 A 2
[02/26/17, 02/26/2017]	[01 jcdf booking hausing, 01 jcdf booking hous	KENNEDY,_Michael_(Redaced)00001	POBLETE SCJ436 OLANO COUNTY SHERIFF S OFFI 02
[01/17/2018]	[1955 grande circle, solano county sheriff]	Mah_Ble_Team_(Redaced)00001	11 12 2019 Incident Summary Pursuit Distance T
[01/17/2018, 2018/01/17]	[1955 grande circle, e80 // leisure town, sola	Mah,_Anhny_Redaced_+_CC10001	CAD Operations Report 155 SOLANO COUNTY SHERIF
	NaN	K9_Use_f_Frce_R_06.05.18_(redaced)1_Redaced10001	Page 1 Use of force Control FN2018 0105 Re
3, 06/07/18, 09/18/2018, 12/10/18, 2	[kilkenny byrnes vacaville california 95688, k	Dran-Garcia,_Salvadr_Redaced+CC00001	SOLANO COUNTY SHERIFF S OFFICE Page c CA0480
[12/05/2018, 12/06/2018]	[01 jcdf booking male dressout, solano county	Raygza_Lis10001	KAMMAN SCJ311 SOLANO COUNTY SHERIFF S OFFICE 1
[12/05/2018]	[solano county sheriff]	Raygza_Ble_Team_Redaced00001	FRONT BACK 1 A 2 7 1 C 2 3 C 3 8 4 H 4 D CO
999, 08/20/99, 08/23/99, 08/24/99]	[2401 port street, solano county sheriff]	899-1497-CCI-228_Clark_Dglas_Preliminary_Rer_R	Coroner and Public Administrator SOLANO JAMES
[06/23/99, 08/20/99]	NaN	899-1497-CCI-228_ClarkDglas_Release_Frm_Orig	BRYAN BRAKER FUNERAL HOME AND FUNERAL DIRECTOR
[08/20/99]	NaN	899-1497-CCI-228_Clark,_Dglas_Fingerrin_Cmaris	AUTOMATED LATENT PRINT SECTION 530 Union Avenu
[08/20/99, 08/23/99]	NaN	899-1497-CCI-228_Clark,_Dglas_Mrge_Cnrl_Frm_Or	SOLANO COUNTY CORONER S OFFICE JAMES E O BRIE
/19, 08/20/99, 08/21/99, 08/23/99, 08/24	[5053 noonan lane faifield, 5053 noonan lane f	Clark_1999_Redaced350001	COPIES TO SOLANO COUNTY SHERIFF S OFFICE CASE
13/2012, 10/15/2012, 10/16/2012, 10/18/12,	[collins ville rdc fire house rd, fire truck r	Cllinge_2012_Redaed340001	CA04800 SOLANO COUNTY SHERIFF S OFFICE Page 5
300, 02/12/12, 02/14/12, 02/15/12, 02/	[apartment building, ronpway 1fo 900 pase, sol	Elber_2012_Redaced280001	CONFIDENTIAL DEPARTMENT OF MOTOR VEHICLES DMV
[06/05/2018]	[solano county sheriff]	Dran-Garcia_Ble_Team_(Redaced)20001	11 12 2019 Incident Summary Officer Assessment
[09/03/2018]	[solano county sheriff]	Threadgill_Ble_Team_(Wrking_Cy)00001	11 12 2019 Incident Summary FRONT BACK 1 A 2
	NaN	K9_Use_f_Frce_R_09.03.18_(redaced)1_Redaced10001	Page 3 and taken to surgery Threadgill was s
[09/03/18]	[solano county sheriff]	Threadgill,_Charles_Redaced_+CC20001	CONFIDENTIAL DEPARTMENT OF MOTOR VEHICLES DMV
2/10/18, 12/10/2018, 2018/12/10]	[solano county sheriff]	Angl_Ral_Redaced+CC00001	SOLANO COUNTY SHERIFF 911 COMMUNICATIONS Call
[12/10/2018]	[solano county sheriff]	Angl_Ble_Team_(Redaced)10001	11 12 2019 Incident Summary Solano County Sher
[08/20/1999, 08/23/1999]	NaN	899-1497-CCI-228_Clark,_Dglas_Deah_Cerificae_R	Aug 24 99 03 08P Bryan Braker F H 7074257352
	[solano county sheriff]	Jseh,_Michael_12-24-2007_redaced120001	Alternatively you may appeal the final decisi
	NaN	899-1497-CCI-228_Clark_Dglas_Saemen_f_Fac_Orig	STATE OF CALIFORNIA ss County of Solano In t
	[solano county sheriff]	899-1497-CCI-228_Clark_Dglas_Case_Invenry_Orig	SOLANO COUNTY SHERIFF CORONER S OFFICE CORONER
	[solano county sheriff]	Jseh,_Michael_11-30-2007_redaced140001	DC ECEIVED JF Gary R Stanton 707 42 1 70
	[solano county sheriff]	JsehMichael_12-04-2007_redaced20001	DC JF a Gary R Stanton 707 42 1 7000 T She

	Names	CaseNumber	Date	La
	[1s13, address, admin leave, al garza, aldo se	[01-07-001014, CR07-2908, VCM097845]	[05/03/07, 05/03/2007, 05/07/2007, 05/09/2007]	[1515 east 4th street benicia, apa
	[1s13, address, anthony, anthony evans, anthon	[0227308, CR04-8569, CR04-8969]	[01/02/2003, 05/08/2003, 11/28/2004]	[12 sandy beach vallejo, sandy beac
	[autry, bryan glenn, citizen, cont, denton, en	[17000412]	[02/26/2017]	[solano county s
	[address, appel, bigarani, chase, citizen, con	[17000412, CR17-1007]	[02/26/17, 02/26/2017]	[01 jcdf booking housing, 01 jcdf b
23	[address, anthony, anthony mah, arabia, autry,	[18-0251]	[01/17/2018]	[1955 grande circle, solano county s
	[address, anthony, anthony mah, arabia, caller	[18-0251, CR18-0251]	[01/17/2018, 2018/01/17]	[1955 grande circle, e80 // leisure town
	[address, arabia, autry, citizen, cont, demare	[18-3027]		
	[address, alex sanchez, alfred smith, arabia,	[18-3027, CR18-3027]	[06/05/2018, 06/07/18, 09/18/2018, 12/10/18, 2	[kilkenny byrnes vacaville california 956
	[chapman, cont, gojkovich, kamman, left, offic	[18002415]	[12/05/2018, 12/06/2018]	[01 jcdf booking male dressout, solano
	[bill elbert, bradley, citizen, cont, elbert,	[18002415]	[12/05/2018]	[solano county s
	[address, brian, brook byerley, bryan braker,	[849-1497-eCl-228, 899-1497-CCl-228, 899- 7497	[08/20/1999, 08/20/99, 08/23/99, 08/24/99]	[2401 port street, solano county s
	[bryan braker, clark, doug, douglas, fairfield	[899-1497-CCI-228]	[06/23/99, 08/20/99]	
	[clark, doug, douglas, fairfield, gary faulkner]	[899-1497-CCI-228]	[08/20/99]	
	[clark, cont, doug, douglas, locker, solano, s	[899-1497-CCT-228]	[08/20/99, 08/23/99]	
	[1154, 1s13, address, angry, arabia, baffico,	[AI99-50, CR99-5601, CR99-5601 (DA 99-205)]	[08/10/19, 08/20/99, 08/21/99, 08/23/99, 08/24	[5053 noonan lane faifield, 5053 noon
	[1s13, 94571, aaron dillon, aaron dillon page,	[CR02-4759, CR12-4759]	[10/13/2012, 10/15/2012, 10/16/2012, 10/18/12,	[collins ville rdc fire house rd, fire to
	[1154, aaron dillon, aaron dillon page, adante	[CR12-0689]	[02/01/1300, 02/12/12, 02/14/12, 02/15/12, 02/	[apartment building, ronpway 1fo 90
24	[arabia, autry, christopher cavazos, citizen,	[CR18-3027]	[06/05/2018]	[solano county s
	[anthony, anthony kasper, autry, bush, charles	[CR18-4574]	[09/03/2018]	(solano county s
	[anthony, autry, bush, charles, charles thread	[CR18-4574]		
	[address, anthony, bush, charles, charles thre	[CR18-4574]	[09/03/18]	[solano county s
	[address, angulo, app02 ps, arabia, axon body,	[CR18-6148]	[10/18/12, 12/10/18, 12/10/2018, 2018/12/10]	[solano county s
14	[angulo, arabia, autry, axon body, bush, chase	[CR18-6148]	[12/10/2018]	[solano county s
	[bryan braker, carolyn clark, charles, charles	NaN	[08/20/1999, 08/23/1999]	
	[anthony, chase, citizen, cont, fairfield, fer	NaN		[solano county s
	[brian, brian peterson, clark, doug, douglas,	NaN		
	[clark, cont, cover, doug, douglas, douglas cl	NaN		[solano county s
	[chase, citizen, cont, fairfield, ferrara, gar	NaN		[solano county s
28	[chase, citizen, cont, fairfield, ferrara, gar	NaN		[solano county s

Data Organization

File	Date	CaseNumber	
Sevens_2007_Redaced3100001	['05/03/07', '05/03/2007', '05/07/2007', '05/09/2007']	['01-07-001014', 'CR07-2908', 'VCM097845']	9
Samle_2004_Redaced260001	['01/02/2003', '05/08/2003', '11/28/2004']	['0227308', 'CR04-8569', 'CR04-8969']	15
Kennedy_Ble_Team_(Redaced)10001	['02/26/2017']	['17000412']	25
KENNEDY,_Michael_(Redaced)00001	['02/26/17', '02/26/2017']	['17000412', 'CR17-1007']	7
Mah_Ble_Team_(Redaced)00001	['01/17/2018']	['18-0251']	23
Mah,_Anhny_Redaced_+_CC10001	['01/17/2018', '2018/01/17']	['18-0251', 'CR18-0251']	21
K9_Use_f_Frce_R_06.05.18_(redaced)1_Redaced10001	0	['18-3027']	3
Dran-Garcia,_Salvadr_Redaced+CC00001	['06/05/2018', '06/07/18', '09/18/2018', '12/10/18', '2018/06/05']	['18-3027', 'CR18-3027']	1
Raygza_Lis10001	['12/05/2018', '12/06/2018']	['18002415']	10
Raygza_Ble_Team_Redaced00001	['12/05/2018']	['18002415']	18
899-1497-CCI-228_Clark_Dglas_Preliminary_Rer_Redaced00001	['08/20/1999', '08/20/99', '08/23/99', '08/24/99']	['849-1497-eCI-228', '899-1497-CCI-228', '899-7497-CCT 228', 'CR99-5601']	26
899-1497-CCI-228_Clark,_Dglas_Release_Frm_Original10001	['06/23/99', '08/20/99']	['899-1497-CCI-228']	2
899-1497-CCI-228_Clark,_Dglas_Fingerrin_Cmarissn_Rer_Redaced_CC110001	['08/20/99']	['899-1497-CCI-228']	13
899-1497-CCI-228_Clark,_Dglas_Mrge_Cnrl_Frm_Original30001	['08/20/99', '08/23/99']	['899-1497-CCT-228']	27
Clark_1999_Redaced350001	['08/10/19', '08/20/99', '08/21/99', '08/23/99', '08/24/99', '08/25/99', '09/01/99']	['AI99-50', 'CR99-5601', 'CR99-5601 (DA 99-205)']	12
Cllinge_2012_Redaed340001	['10/13/2012', '10/15/2012', '10/16/2012', '10/18/12', '10/18/16', '12/10/18', '12/28/2010']	['CR02-4759', 'CR12-4759']	6
Elber_2012_Redaced280001	['02/01/1300', '02/12/12', '02/14/12', '02/15/12', '02/20/2012', '02/21/12']	['CR12-0689']	8
Dran-Garcia_Ble_Team_(Redaced)20001	['06/05/2018']	['CR18-3027']	24
Threadgill_Ble_Team_(Wrking_Cy)00001	['09/03/2018']	['CR18-4574']	17
K9_Use_f_Frce_R_09.03.18_(redaced)1_Redaced10001	0	['CR18-4574']	20
Threadgill,_Charles_Redaced_+CC20001	['09/03/18']	['CR18-4574']	16
Angl,_Ral_Redaced+CC00001	['10/18/12', '12/10/18', '12/10/2018', '2018/12/10']	['CR18-6148']	11
Angl_Ble_Team_(Redaced)10001	['12/10/2018']	['CR18-6148']	14

Each **Case** object has:

- dates
- files
- names
- locations
- paths

Data Organization

case1.dates	
{'06/23/99',	
'08/10/19',	
'08/20/1999',	
'08/20/99',	
'08/21/99',	
'08/23/99',	
'08/24/99',	
'08/25/99',	
'09/01/99'}	

casel.files

{'899-1497-CCI-228_Clark,_Dglas_Deah_Cerificae_Redaced_CC130001', '899-1497-CCI-228_Clark,_Dglas_FIngerrin_Cmarissn_Rer_Redaced_CC110001', '899-1497-CCI-228_Clark,_Dglas_Mrge_Cnrl_Frm_Original30001', '899-1497-CCI-228_Clark,_Dglas_Release_Frm_Original10001', '899-1497-CCI-228_Clark_Dglas_Case_Invenry_Original90001', '899-1497-CCI-228_Clark_Dglas_Preliminary_Rer_Redaced00001', '899-1497-CCI-228_Clark_Dglas_Saemen_f_Fac_Original70001', 'Clark_1999_Redaced350001'}

Final output: list of the files belonging to individual cases

Data Organization

899-1497-CCI-228 Clark, Dglas Deah Cerificae Redaced CC130001 899-1497-CCI-228 Clark Dglas Case Invenry Original90001 Clark 1999 Redaced350001 899-1497-CCI-228 Clark Dglas Preliminary Rer Redaced00001 899-1497-CCI-228 Clark, Dglas Mrge Cnrl Frm Original30001 899-1497-CCI-228 Clark Dglas Saemen f Fac Original70001 899-1497-CCI-228 Clark, Dglas_Release_Frm_Original10001 899-1497-CCI-228 Clark, Dglas_FIngerrin_Cmarissn_Rer_Redaced_CC110001 Threadgill, Charles Redaced +CC20001 Threadgill Ble Team (Wrking Cy)00001 K9 Use f Frce R 09.03.18 (redaced)1 Redaced10001 Dran-Garcia, Salvadr Redaced+CC00001 K9 Use f Frce R 06.05.18 (redaced)1 Redaced10001 Dran-Garcia Ble Team (Redaced)20001 KENNEDY, Michael (Redaced)00001 Kennedy Ble Team (Redaced)10001 ****************************** Raygza Lis10001 Raygza Ble Team Redaced00001 Mah, Anhny Redaced + CC10001 Mah Ble Team (Redaced)00001 Angl, Ral Redaced+CC00001 Angl Ble Team (Redaced)10001 *********************************** Sevens 2007 Redaced3100001 Samle 2004 Redaced260001 ************************************ Cllinge 2012 Redaed340001 Elber 2012 Redaced280001 *********************************



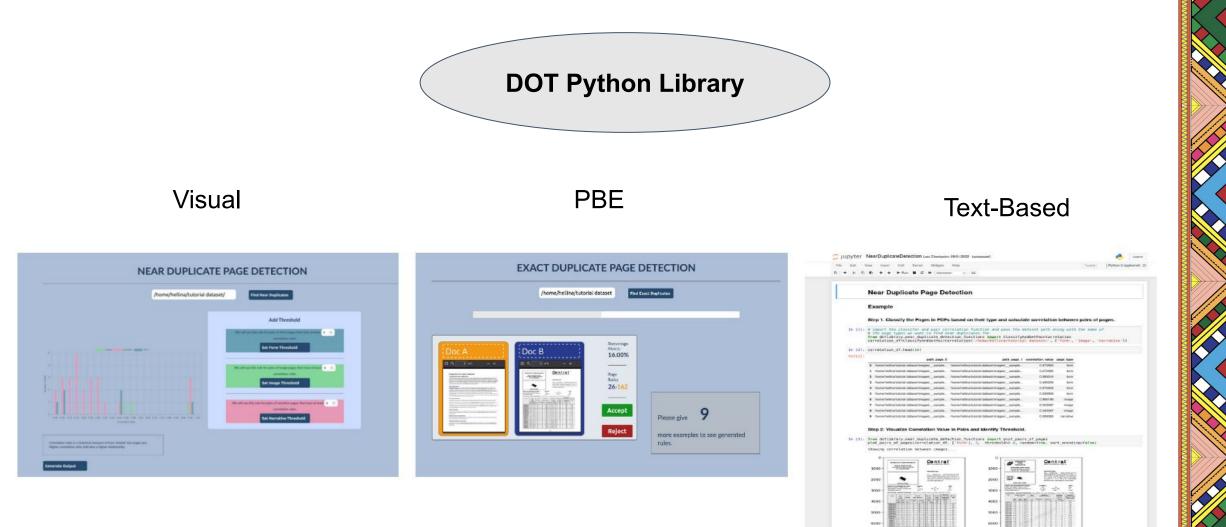
Programming Paradigm Design



Programming Paradigm Design

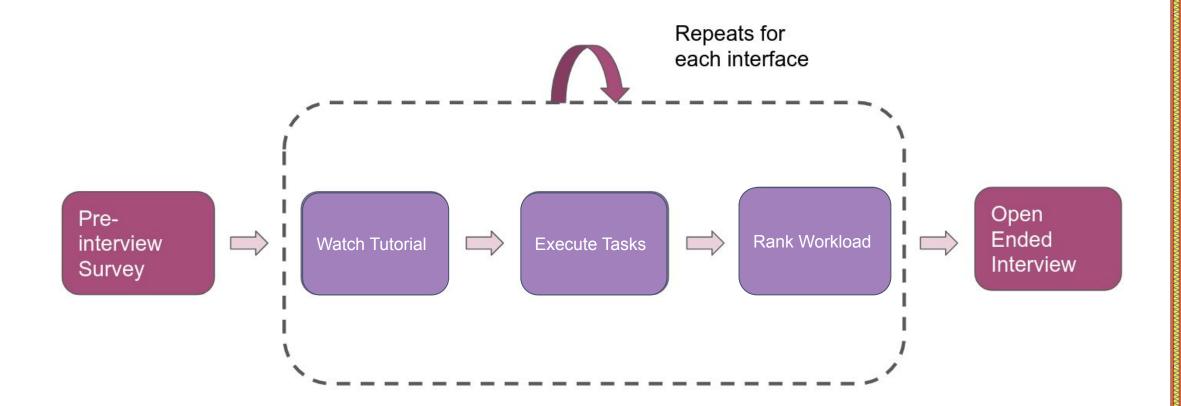
Some domain experts with limited time and budget became self-taught programmers in an attempt to automate their data organization tasks.

Programming Paradigm Design



User Study Design

• Within subject study with n=12 participants.





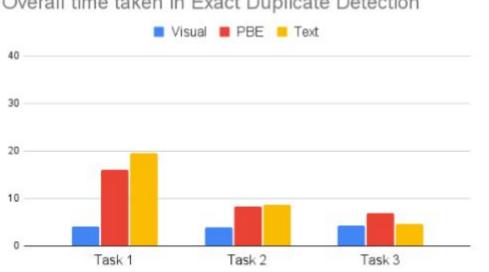
Research Questions

- In the document processing domain, are experts from non-technical domains more successful with Visual, Programming-By-Example or Text-Based programming paradigms?
- For a non-technical audience, what are the relative strengths of each of the programming paradigms?

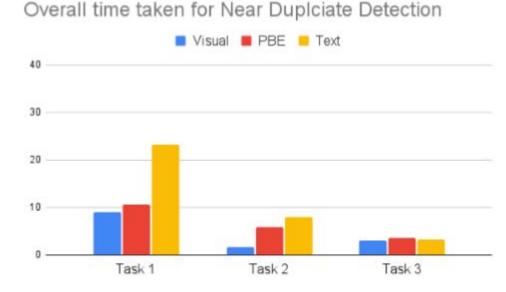
Results

RQ1: Are experts from non-technical domains more successful with Visual, Programming-By-Example or Text-Based programming paradigms?

Overall Time



(a) Average time it took participants to complete each of the tasks in Exact Duplicate Detection.



(b) Average time it took participants to complete each of the tasks in Near Duplicate Detection.

Overall time taken in Exact Duplicate Detection

Results

RQ2: For a non-technical audience, what are the relative strengths of each of the programming paradigms?

• Text-Based programming offers low-level control and flexibility to explore outside of the designer-provided abstractions.

• Visual programming gives tool designers an opportunity to offer information by default that programmers might not think to uncover themselves.

• The PBE paradigm puts the focus on the data rather than the program structure.



Conclusion

• Domain experts dealing with large document dumps need a data cleaning and data organization tool...We built DOT!



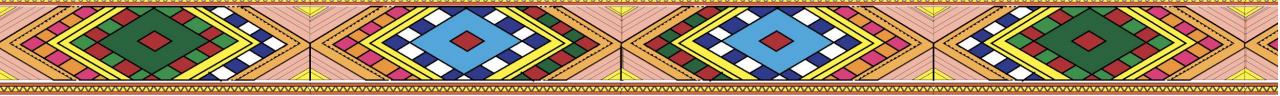
 Domain experts have tried to automate parts of their data organization tasks; so we conducted a formative study to figure out what paradigm works for our set of programmers.





Questions?





Current Work



Current Work

Text-Based Interface



Visualization

Exception Handling

1. File splitting.

Data Organization

2. File matching with case number.

3. File matching with name and date.

Case Numbers >1?

Select Page Type

Chop PDF at the first page of the specified type.

58

Data Organization

1. File splitting.2. File matching with case number.3. File matching with name and date.

8	['CR12-0689']	['02/01/1300', '02/12/12', '02/14/12', '02/15/12', '02/20/2012', '02/21/12']	Elber_2012_Redaced280001
24	['CR18-3027']	['06/05/2018']	Dran-Garcia_Ble_Team_(Redaced)20001
16	['CR18-4574']	['09/03/18']	Threadgill,_Charles_Redaced_+CC20001
17	['CR18-4574']	['09/03/2018']	Threadgill_Ble_Team_(Wrking_Cy)00001
20	['CR18-4574']	0	K9_Use_f_Frce_R_09.03.18_(redaced)1_Redaced10001
11	['CR18-6148']	['10/18/12', '12/10/18', '12/10/2018', '2018/12/10']	Angl,_Ral_Redaced+CC00001
14	['CR18-6148']	['12/10/2018']	Angl_Ble_Team_(Redaced)10001

Data Organization

3. File matching with name and date.

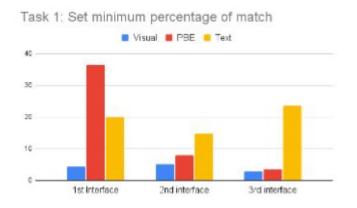
2. File matching with case number.

1. File splitting.

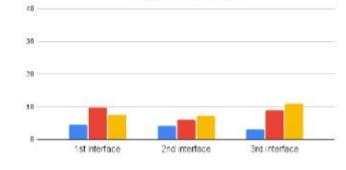
	Names	Date	File
0	['bryan braker', 'carolyn clark', 'charles', 'charles clark', 'clark', 'cont', 'doug', 'douglas', 'douglas clifford', 'fairfield', 'ford', 'jean marcotte', 'knowl 115', 'montana', 'mumber', 'noonan', 'ryan', 'solano', 'typed']	['08/20/1999', '08/23/1999']	899-1497-CCI-228_Clark,_Dglas_Deah_Cerificae_Redaced_CC130001
4	['anthony', 'chase', 'citizen', 'cont', 'fairfield', 'ferrara', 'jose', 'joseph', 'lee axelrad', 'michael', 'sheriffs', 'solano', 'thomas ferrara', 'vallejo']	0	Jseh,_Michael_12-24-2007_redaced120001
5	['brian', 'brian peterson', 'clark', 'doug', 'douglas', 'douglas clifford', 'fairfield', 'ford', 'noonan', 'peterson', 'solano']	0	899-1497-CCI-228_Clark_Dglas_Saemen_f_Fac_Original70001
19	['clark', 'cont', 'cover', 'douglas', 'douglas', 'douglas clark', 'items', 'page', 'respond', 'solano']	0	899-1497-CCI-228_Clark_Dglas_Case_Invenry_Original90001
22	['chase', 'citizen', 'cont', 'fairfield', 'ferrara', 'gary stanton', 'jose', 'joseph', 'lee axelrad', 'michael', 'respond', 'solano', 'vallejo']	0	Jseh,_Michael_11-30-2007_redaced140001
28	['chase', 'citizen', 'cont', 'fairfield', 'ferrara', 'gary stanton', 'jose', 'joseph', 'lee axelrad', 'michael', 'respond', 'solano', 'vallejo']	0	Jseh, _Michael _12-04-2007 _redaced 20001

Results

Exact Duplicate Detection



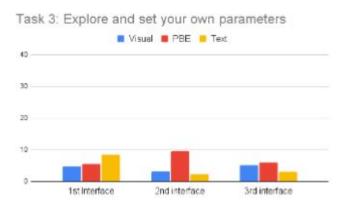
(a) Time taken by participants for Fixed Task of setting percentage threshold.



Task 2: Set page range and minimum matched

Visual PBE Text

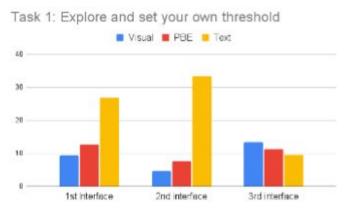
(b) Time taken by participants for Fixed Task of setting number of pages in file and number of matched pages.



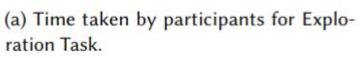
(c) Time taken by participants for Exploration Task.

Results

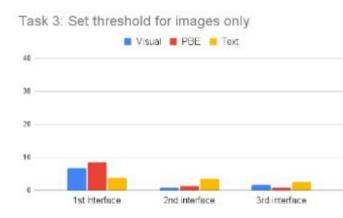
Near Duplicate Detection



Task 2: Set threshold for forms and images



(b) Time taken by participants for Fixed Task of setting correlation threshold for both image and form page types.

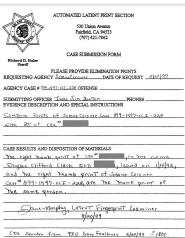


(c) Time taken by participants for Fixed Task of setting correlation threshold for just image page types.

Data comes in different levels of quality, making data extraction extremely difficult.

	COPIES TO	SOLANO COUNTY SH	PIEE'S OFFICE	CASE ND CR18-4574	194.08	
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		UTILITY RE				
			Agency assist/ KB appr	etension 54	54	
	Control (to type)() Rever Rd at Highway 12 Rio Vi 2007 20	sta (Rio Vista Bridge) 090318 160	TO CNIOS ENTS	ber	1603 fwd	
	(S) Threadgill, Charles	SEX RC M V	7 008 A08 H07 40 600	210 Bik Bm U	tiveral and the second s	
	(S) Threadgal, Charles Relation Address Billion and Address Unix	Ro Vista	CA CA	(Unk) - PORK PHONE		
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Coroner prints from Inuce. Jim Burton \$40/99 = 1800

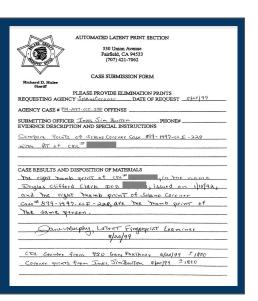
Data comes in different levels of quality, making data extraction extremely difficult.

General Tener						.000
Arrest Time 0.25	RIVER	RSIDE COU	INTY SHERIFF'S DEP/ Receiving Sheet	RTMENT	Gooking Cist	LIPS CALL
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Orivers License & State	10 A.	Ch		-	SSN	Mr. Ry R.
Employer				Occupation		
Other Names Used Emergency Contact	_	_				
Address of Contact				Relationship	_	
Tations - Scars - Marks		-		Phone		
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Amenting Agency	2	~~~	Agency Case Number	1-1/		
Arrest Location		1 20 0	page of the state of the state			
Vehicle Disposition/Towing Company						
Arreating Officev1.D. #			Transporting Officer& D.#		21. 2	
			OOKING CHARGES			
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10						
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Miscelieneous later					formation	Unit to Receiving Science
Displayed suicidal behavior?	YES	NO	-	For Business o		100
Involved in a Vehicle Accident?	YES	ND	On - Sight			
Fought with Law Enforcement? Fought with other than Law Enforcement?	YES	NO	Agency Case Number		_	
Volget with other than Law Enhancement? 26 American ever loss consciousness?	YES	ND NO	Riverside County Warrant N Originative Police Agency	urber		
We there only special housing needs?	YES	NO	Reviewed by:			
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Did annotee get tased?	YES	NO				
Explain)						
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SOLANO COUNTY SHERIFF'S OFFICE Contract Name And Status 500 UNION AVENUE SUITS 100 Terratoria No Total (70) do 1700 Terratoria No	AUTOMATED LATENT FRINT SECTION 350 Union Avenue Futfield, CA #4533 (707) 421-7062
EXEMPTION EXEMPTION EXEMPTION EXEMPTION EXEMPTION 000 A. S. M. S.	CASE SUBMISSION FORM Richard D. Hulse Sheriff
P OP OP </td <td>PLEASE PROVIDE ELIMINATION PRINTS REQUESTING AGENCY Solware DATE OF REQUEST AGENCY CASE # الأطلاع المحلمي والمحلمي والمحلمي والمحلمي والمحلمي والمحلمي والمحلمي والمحلمي والمحلمي والمحلمي</td>	PLEASE PROVIDE ELIMINATION PRINTS REQUESTING AGENCY Solware DATE OF REQUEST AGENCY CASE # الأطلاع المحلمي والمحلمي والمحلمي والمحلمي والمحلمي والمحلمي والمحلمي والمحلمي والمحلمي والمحلمي
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See Attached	CASE RESULTS AND DISPOSITION OF MATERIALS The eight much generates continue of the first of the content of the first of t
	and the right Humb print of Selano Coccurr Case# 899-1497.ccf-226, are the mumb print of the same person.
	Sauvinuply, Lotient Fingerprint Examiner 8/20/99
T. Force, 11.52 10 10 10 10 10 10 10 10 10 10 10 10 10	CDL Sounder from P20 Gary Foutherr spolgg \$1800 Corver privats from Inuc. Jim Bueton spolgg \$1810



Data comes in different levels of quality, making data extraction extremely difficult.



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2	Public Roedway		0903	816	1603	BUTY						
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Anest Time 2025	RIVERS	BIDE CO	NUNTY SHERIFF'S DEP	ARTMENT	Booking Ca	and Time	atri
Arrest Data		DEF	ENDANT INFORMATION		Section No.	20205	57510
Last Name, F, M	1000	1.11	2				
Street	-		City	and the T		State	
Zip Florre Teleph	000		1116	(Prior/Curre	nt) Millary		
Sex Race	DOB		/ Age D	Height		Weight	C
Plair Eyes	25	Phase of	Bith				
Drivers License & State	101	CA			SSN		100
Employer				Occupation			
Other Names Used							
Emergency Contact				Relationahip			
Address of Contact				Phone			
Tattoce - Scars - Marks		_					
			ARREST INFORMATION				
Arresting Agency	2	_	Agency Case Number	- 1- 1	11.14		
Arrest Location	1-1-1-1	19					
Vehicle Disposition/Towing Company							
Arresting Offician's D. #	1. M.		Transporting Officer/I D.#	1.	1		
(¹)		_	BOOKING CHARGES				
Type of Arrest On View 🔼 Warran	N/E	tieon	Other				
Charges	MIP		invative Court	War	THER. B	Bell	
the last sector			19 A.M.				20
	-	_		1			
1200	-						_
	DOMES	200 1000	ENCE NOTIFICATION - PER				
Victim requesting notification? YES	NO		"YES," offsch RSD Form 55	2. Notification	af Belease" 7	tern in Receiving 5	200
Niscellaneous Inform					formation		
Displayed suicidal behavlor?	YES	NO.		(For Basinesa	Office Use O	n'y)	
Involved in a Vehicle Accident? Fought with Low Enforcement?	YES	NO ND	On - Signe				
ought with Law Enforcement? ought with other than Law Enforcement?		NO	Agency Casa Number Riverside County Warrant	N and an	_		- 1
Id arrestee ever lose consciousness?		NO	Drighative Palice Agency.		_		_
We livere only special housing needs?	YES	NO	Reviewed by:				_
All arrestee require sn D.K. to book?		NO	Send Dill to:				
Nd arrestee get tases?	YES	NO					
Exploin)							
	Approvin			Resson	Denied		
			Ison Deried				
masting Agency to be notified upon release agency contect time & Date.							
			ontacted? ER P&P \$94.33 MANDATOR		By whom		_
es [] No [] Coursy			Name/Dil of person making		area()		
rreating Office:		-		- Acti			
	en - Pard Room		Booking Officer	Allowine Medicel	NAMUR		

Files belonging to the same case might be **spread across several folders**, creating a challenge for working with a particular

Case Files Alameda County Alameda County DA DA report 2019 case 34.pdf Hayward Police Department 2019 files OfficerXYZ-7896 X OfficerXYZ-7896 report.pdf All reports **Richmond Police Department** Supplemental information OfficerXYZ.pdf Contra Costa County Yuba County

case.