


8-14-2015

The Case of the 35 Gigabyte Digital Record: OCR and Digital Workflows

Kelley F. Rowan

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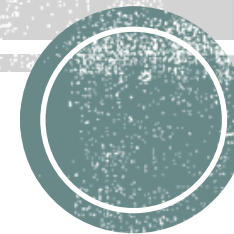
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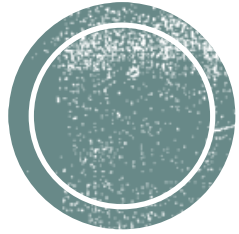
The Case of the 35 Gigabyte Digital Record

OCR and Digital Workflows



Kelley Rowan, Digital Archives Librarian
Florida International University August 14, 2015

1. Digital Collections Center Workflow



2. OCR – the Way it *Should* Work

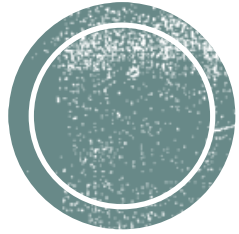
3. Case Study – how to *Make* it Work

Overview

3 Librarians + Assistant Director

3 part time staff + 1 shared time
cataloging librarian

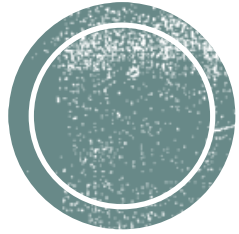
Volunteers



Digital Collections Center

Photographs, images, maps,

Ephemera



Microfilm

Books, journals, directories

Audio, video

Materials we digitize

Preserving and promoting the scholarship, creative works and history of the FIU community

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Reader from: Webster, Minnesota, United States

The Beacon, March 29, 2010
Florida International University
The Beacon



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Total Papers

1,119,074
Total Downloads

409,880
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Collections - Press "enter" from keyboard or type "*" and click search button to retrieve all items



FEATURED COLLECTIONS



dPanther

Digital Commons

Digital repositories





Scanning – ATIZ, flatbeds

Processing – Photoshop

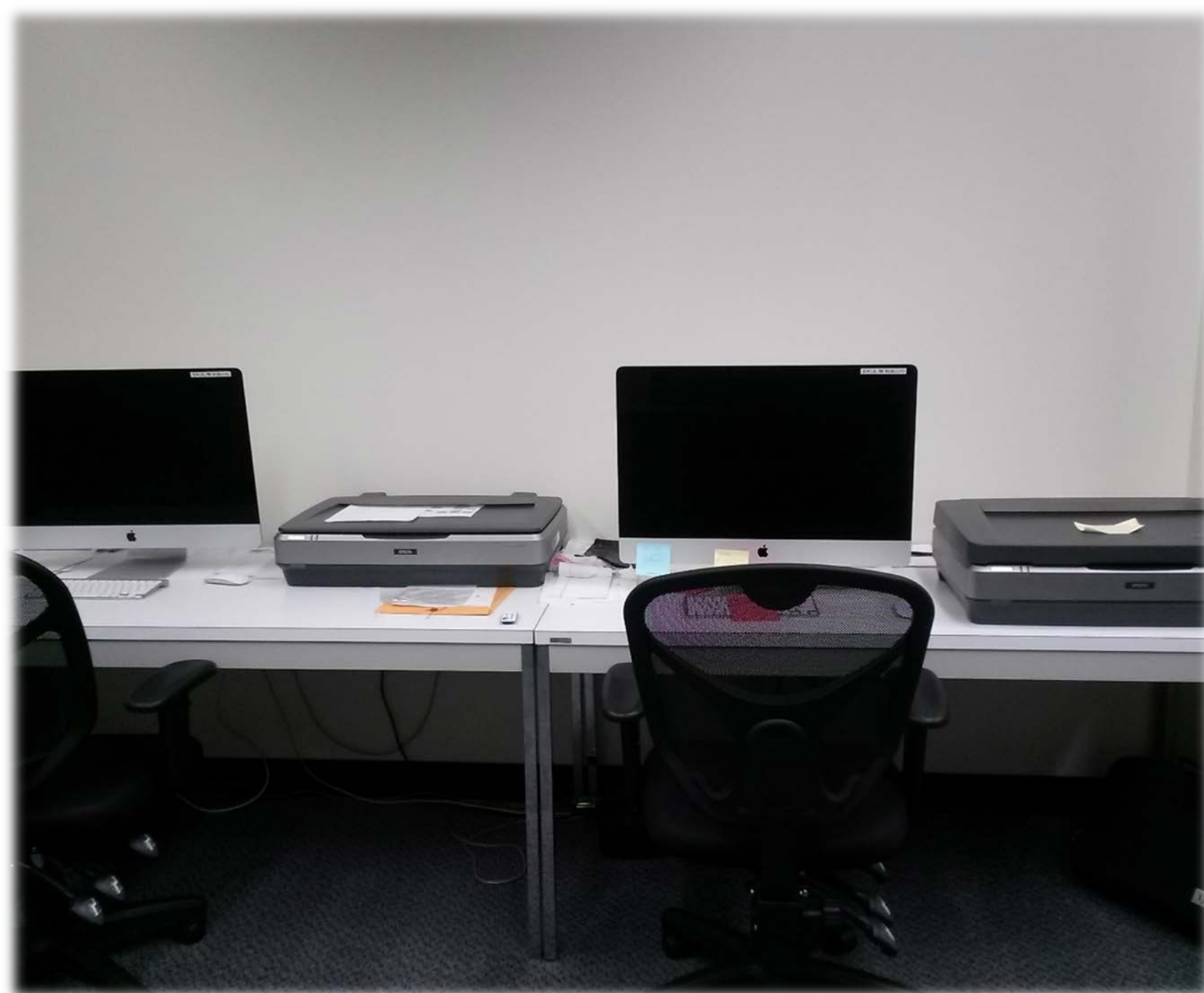
Record creation – METS editor

Dissemination – dPanther, Digital Commons

Preservation - FDA

Basic Workflow

MACs & Epson flatbed scanners



Scanning

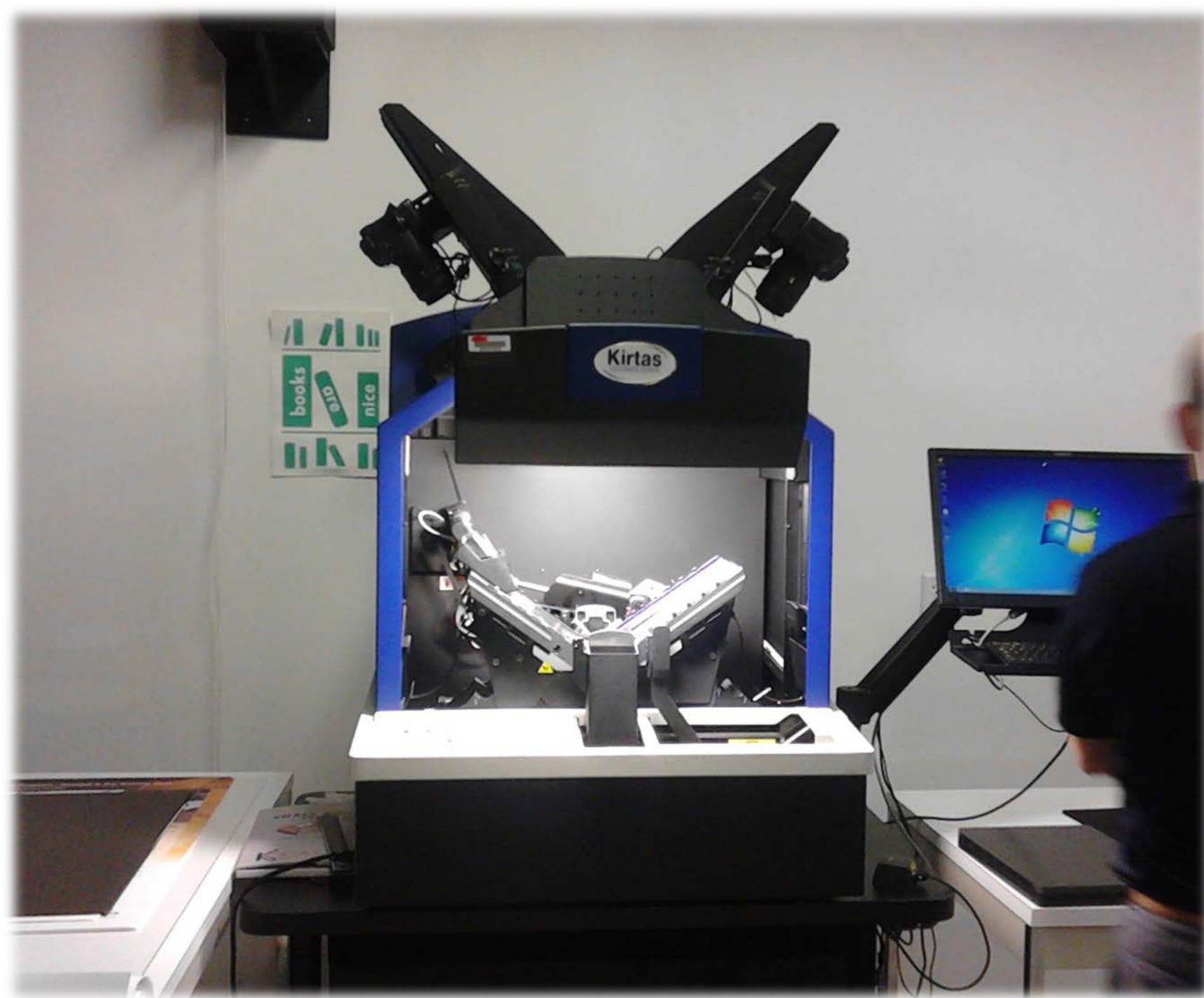




ATIZ book scanner

Scanning





The Kirtas KABIS III

Academic Imaging
Services

2,800+ pages/hr
100 pages 3-5 GB

Scanning





GMSE Imaging
Deskewing an image can help a lot, if you want to do OCR, OMR, barcode detection or just improve the readability of scanned images.

Image: <http://www.codeproject.com/Articles/13615/How-to-deskew-an-image>

Adobe Photoshop

True to the original

Cropping

Deskewing

Processing



Prime OCR

Deskew

Manual or auto zoning

Color & grayscale

14 languages

Input: TIFF, PDF, JPEG, PCX, PDA

Output: PDF, HTML, RTF, ASCII, XML

8 errors/2000 characters (v. 40/2000)

6 engines (v. 3 engines)

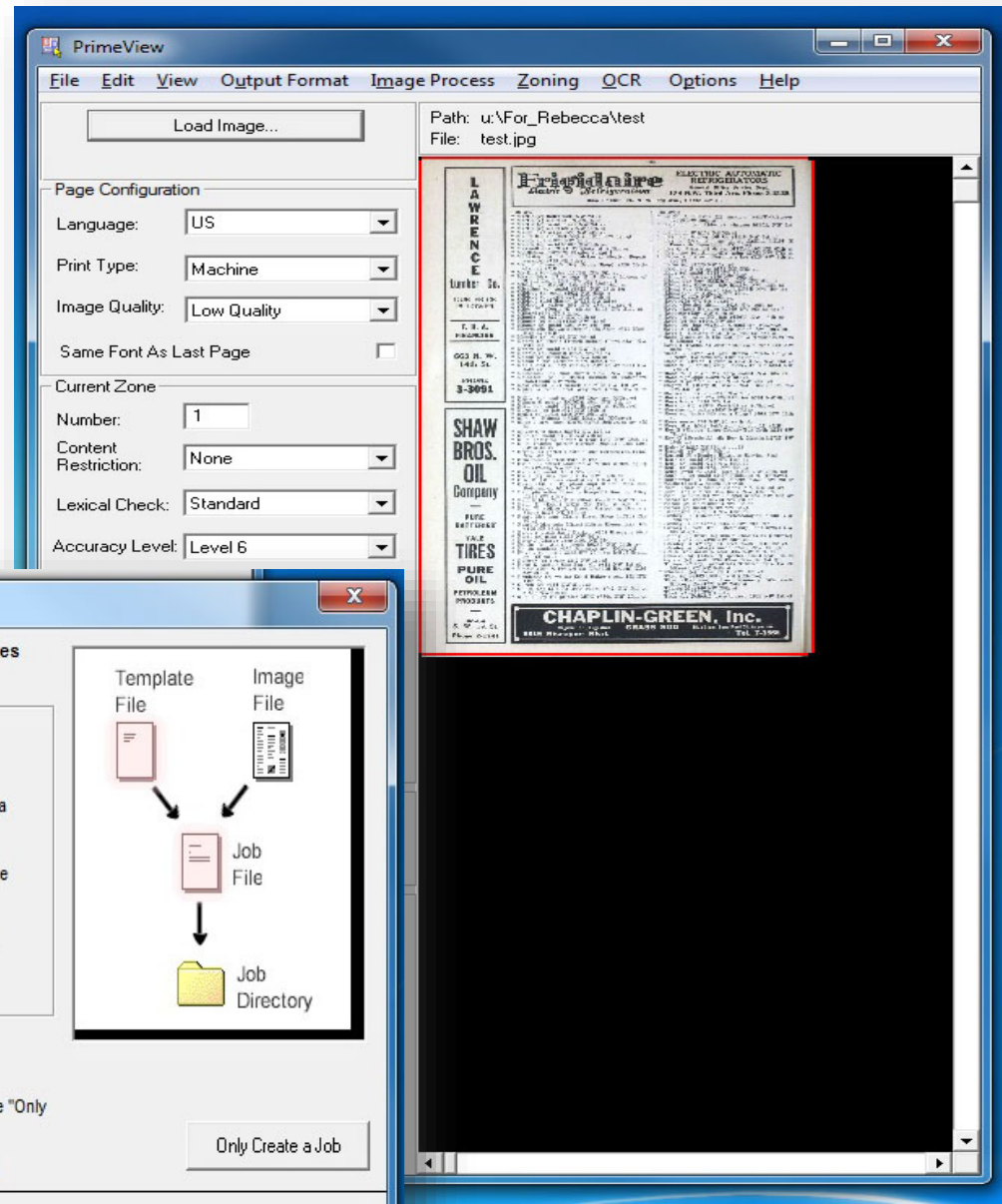
Template & Job Wizard

Built-in JBIG lossless image compression means smaller files

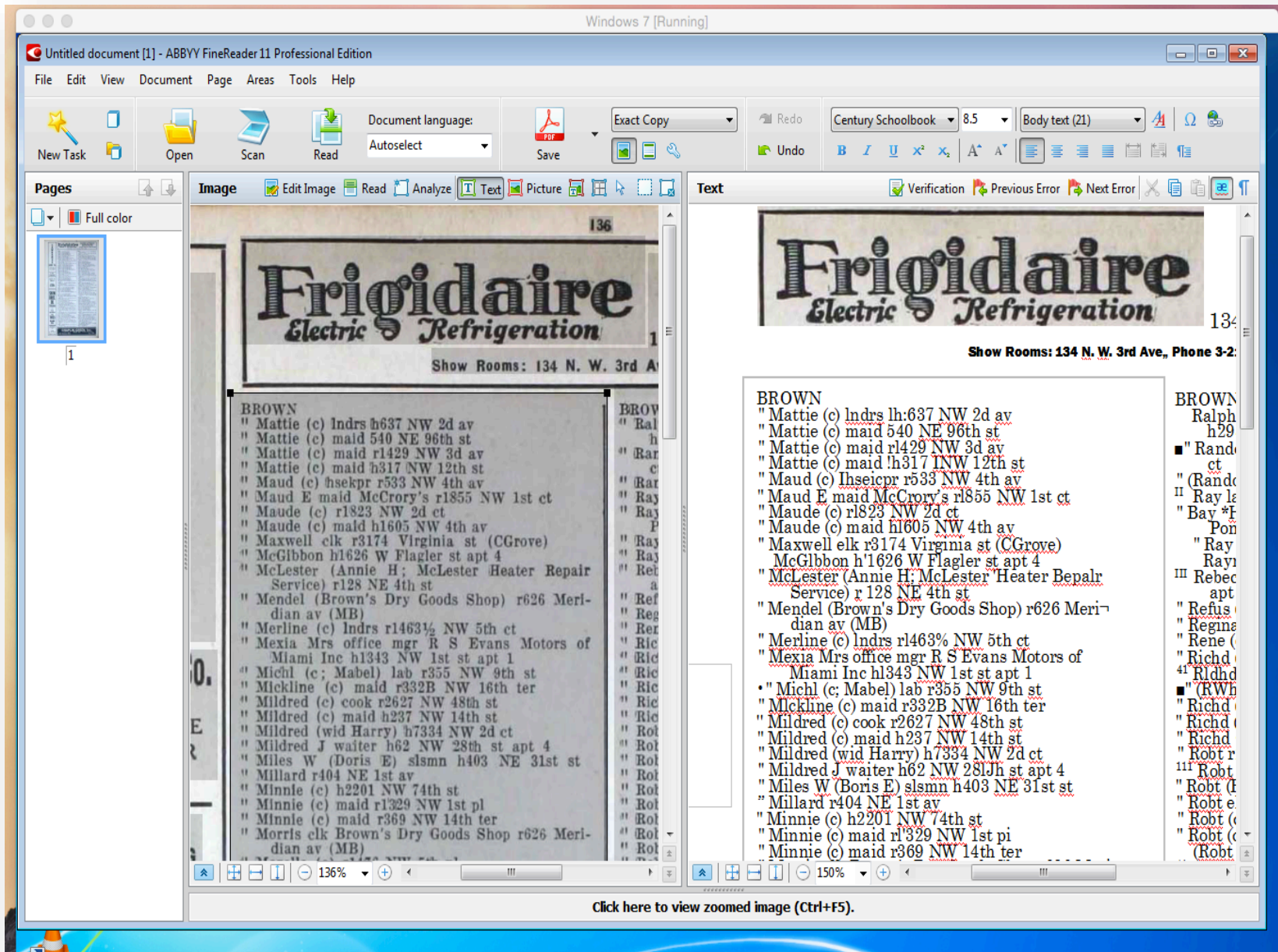
Runs unattended

http://www.primerecognition.com/prime_ocr.htm

Processing



Abbyy Fine Reader



Positives:

Side by side viewing

More than 1 language at a time on a page (over 200 languages)

Label images

User friendly

Automatically detects images, text, charts, graphs, columns

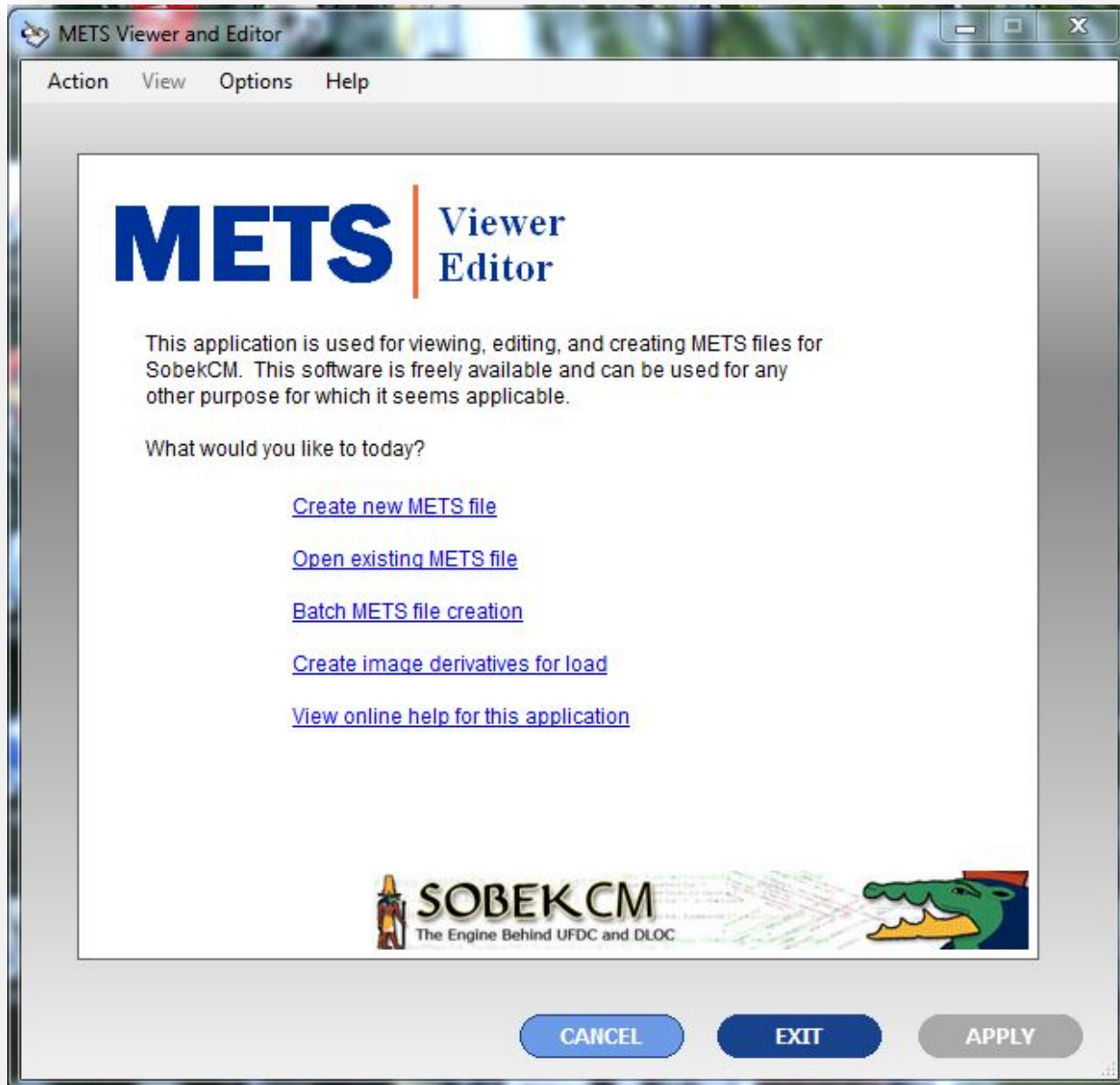
Negatives:

Less accurate (only 1 OCR engine)

Slower

Processing





Metadata

METS – an encoding and transmission standard for descriptive, administrative, and structural metadata regarding objects within a digital library.
(<http://www.loc.gov/standards/mets/>)

MODS - a schema for a bibliographic element set that may be used for a variety of purposes, and particularly for library applications.
(<http://www.loc.gov/standards/mods/>)

XML - a markup language that defines a set of rules for encoding documents in a format which is both human-readable and machine-readable.

**Record Creation,
Dissemination, &
Preservation**





The Polk Directories

REFERENCE
F 319
M62
A18
1971

SEA ISLE HOTEL
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FLORIDA INTERNATIONAL UNIVERSITY
3 1199 01476 3950

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Or “how to turn a 30 minute project into a 5 month project”

village. This proved tragic for the latter, for the village was not in sympathy with the Diaz regime; a band of insurgents suddenly appeared, seized him and his men, stood them against a wall and shot them!

They then lay in wait for Bradish's party; it duly fell into their hands, and was led to the fatal wall to await the formation of a sufficient firing squad. The sun was hot, and they were thirsty; when a woman passed, selling a cool drink, Bradish tossed her a silver coin. The startled woman gave him the drink, but returned the coin, crossing herself, and exclaiming, "I can't take pay from a dead man!"

Meanwhile Theodore was busy. Felix's fate made him marshal his resources, but the scant remaining crew, armed only with sealing guns, was no material for a landing party. He was not an American for nothing, however, and he immediately rigged up a dummy ten-pounder, and had it trained on the village by the time Bradish was taken. A message that the village would be destroyed unless his party were released did the trick, and Bradish was soon on board again! They abandoned the treasure—even the Johnsons were not ready for combined salvage and war—and the "dead man" sent the coin to his mother in Washington, who had it made into a ring.

The Pacific adventure ended in Kona, on Hawaii, for Theodore's malady developed, he died there, and Bradish brought his body home to Washington. He later returned to San Francisco (perhaps thinking of the \$5,000,000) and speculated in gold mines until all the remaining profits of the coasting business were disbursed.

He next got a post under Admiral Perry, and in 1882 they went to Key West to build a light-house pier. The little Island City evidently struck the right spot in Bradish's heart—no doubt Hawaii had prepared him to love its tropical climate, and he had found his place. He settled down, married "Miss Irene," daughter of one of the chief families, the Bethels, originally from Nassau, and set out to win a place in the close corporation of the town's leading citizens, all interested, more or less directly, in wrecking.

Undoubtedly, in the opinion of the fraternity, there were enough wreckers in Key West already. That did not bother Johnson; he had technical training which stood him in good stead, practical ingenuity which could not be stumped, broad experience of the sea, powerful physique, indomitable courage, and a staggering audacity which loved to take incredible chances.

Give a man like this such a colorful opportunity for adventure and profit as Key West offered in 1882, and almost anything may happen;

The ideal OCR job

A recent text with easily recognizable font

All font over 6 point

All images scanned at 300 dpi

50% brightness level

Original scans that are very straight

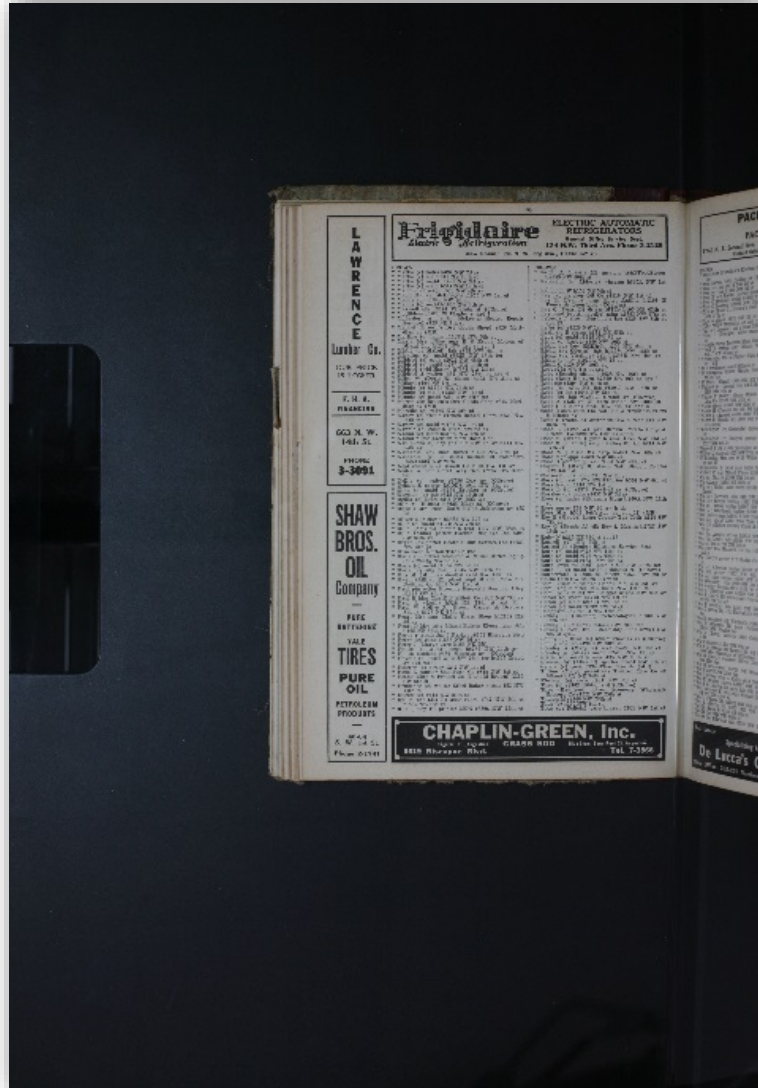
For older or discolored texts, scan in RGB mode to capture all the image data

A document that is either all images or all text

All text aligned in the same direction

A reasonably sized document





What we had

- Unprocessed TIFFS
- 5 very lengthy directories 1,500-1,838
- Pages out of order
- Old typeface
- Thin pages
- Faded type
- Colored pages
- Text in multiple directions
- Images & text
- Inconsistent dpi in scanning (72-300)

LAWRENCE

136

Frigidaire
Electric Refrigeration

ELECTRIC AUTOMATIC REFRIGERATORS
General Office Service Dept.
134 N.W. Third Ave., Phone 3-2128
Show Room: 134 N. W. 3rd Ave., Phone 3-2128

LAWRENCE

BROWN

Mattie (c) Indrs 6027 NW 2d av
Mattie (c) maid 519 NE 925 st
Mattie (c) maid r1429 NW 3d av
Mattie (c) maid 3011 NW 21st st
Maud (c) baker 2592 NW 4th av
Maud B maid McGroves 1855 NW 1st ct
Maude (c) r1421 NW 3d ct
Maude (c) maid 3109 SW 10th av
Maxwell clk r1374 Virginia st (CGrove)
McElhannon 3426 W 34gler st apt
McLester (Anna) H. McLester Heater Repair Service 7128 NE 4th st
Meridian (Brown's Dry Goods Shop) 4026 Meridian av (MB)
Merline (c) Indrs r1403A NW 5th ct
Mesta Mrs office mgr R. S. Evans Motors of Miami Inc 3133 NW 1st st apt 1
Michl (c) Mabel lab r252 NW 9th st
Michl (c) maid 3202B NW 14th ter
Mildred (c) cook r2827 NW 42nd st
Mildred (c) maid 3207 NW 14th st
Mildred (c) maid 3271 NW 2d ct
Mildred (c) walter 562 NW 28th st apt 4
Miles W (Marie E) steam 1403 NE 31st st
Millard r484 NE 1st av
Minnie (c) 3229 NW 14th st
Minnie (c) maid r1229 NW 1st pl
Minnie (c) maid 1874 NW 1st pl
Morris clk Brown's Dry Goods Shop r226 Meridian
Mouille (c) r1476 NW 5th pl
Nancy (c) fmr French Rental Cntrs 414 NW 14th ter
Nancy (c) maid r1132 NW 1st pl
Nannie (c) cook r196A NW 4th st
Ngomi (c) maid 3018A NW 6th st
Nomi nurse-Jackson Men House do
Nat (Raha C) dry gds 522 NW 2d av 444 SW 5th av
Nathaniel (c) shoe shiner r1433 NW 6th pl
Nathaniel (c) E. Bellin bellman El Comodoro Hotel 1097 NW 2nd
Neal chaut E. G. Sewell Co 498 SW 1st av
Nedra A (Mrs) Coral Way Sch r2712 SW 10th ter
Nellie (c) walter r2748 Day av (CGrove)
Nelson S porter RCDHS r244 NW 5th av
Nina (c) maid 1828 NW 14th st (CGrove)
Norman (c) lab r222 NW 10th st
Oella (c) Indrs 214 NW 14th ter
Oella V (Hilma) 1592E Mary St (CGrove)
Oliver J Mrs cash UoM 11745 Jefferson av (M B)
Oliver C Jr steam 35782 NW 22d av
Ollie (c) maid 3412 NW 7th st
Ollie (Amy) clk shldr h rear 1177 NW 28th st
Ollie (Annie) poster Packer Displays Inc r394 SW 34th st
Organ (c) porter Booth's Golf Service Sta r1433 NW 5th pl
Orin mech Norton Tire Co Inc
Ossie (c) driver Monard & Miller Office Equip Co r1224 NW 3d av
Ossie (c) maid r1321 NW 2d av
Ossie (c) clk frmr 2245 NW 14th st
Ota M (Minnie) dentist r76 NW 8th av
Owen (Lillian E) stant supt Miami Coca-Cola Bottling Co 3341 NW 21st st
Owen (Lillian E) stant supt Browne Keep-Fit Bowling Alley 1632 SW 5th st
Paul H (Edith) E. Elliott Co r385 NW 7th av
Paul H (Edith) 5526 NE 78th st apt 11
Paul W (Olive E) Brown Carpet & Drapery Shop) 4022 NE 17th st
Paul W (Olive E) Chairn Dress Shop 41278 NE 3d av
Paul D Mrs tchr Miami Edison Elementary Sch 2165 NE 45th st
Percy F andl Jan J Parier 6981 Biscayne Blvd
Perry (c) actor r182 NW 3d av
Peter J (Mary) carp 2163 NE 25th
Peter (c) Alvin carp 2629 NW 14th av
Philip student r236 Menores av (Cabbage)
Francis (c) maid 3223 SW 25th ter 4497 Grand av (CGrove)
Peters (c) r rear 1347 NW 1st pl
Pope K (Annie) Sou Furn Co r442 NW 1st ct
Potato Chip & Pretzel Co (Dana M Brown) 1106 SW 8th st
Prudence (c) walter Edol Baker r rear 153 NW 14th st
Queen (c) r44 NW 21st st
Quilla (c) Ella B) auto repz 1742 NW 5th ct 1832 NW 6th ct
R. F. (Loey T) printer MDN r386 NW 16th ct

LAWRENCE

BROWN

Ralph A (Beattie M) meatstr A&P Food Store 3255 NW 4th st
Randolph (c) Aldous) whasenn 4851A NW 1st ct
Randolph W 1152 NE 5th st
Ray lab Induser Oil Co 2158 NW 1st pl
Ray H (Jeanne) mgr Hotel Antilla 11108 E Fines de Leon Blvd (Coralton)
Ray O (Pearl D) driver MTCO 3185 NE 65th at Raymond (c) Annabelle) gnr 1161 NW 6th at
Rebecca J slava Business Inc 252 SW 6th at
Reef (c) r2229 NW 1st pl
Reef (c) maid r1415 NW 3d av
Reginald R steam 1172 NE 68th st
Rees (c) maid r1415 NW 3d av
Richd (c) baker r260 NW 10th st
Richd (c) boy SHIRAZ 2289 NW 8th st
Richd (c) Odessa) lab 4119A NW 18th st
Richd (c) Virginia) lab 1155B NW 4th av
Richd (c) lab r1920A NW 2d av
Richd (c) r126 NW 14th st
Robt r262 NW 1st st apt 7
Robt (Beattie) steam 11628 NW 16th at
Robt (Row) H) carp 2569 SW 9th st apt 2
Robt clk r2294 NW 64th st
Robt (Alta M) lab r250A NW 45th st
Robt (c) lab r194 NW 5th ct
Robt (c) maid 1874 NW 5th st
Robt A (Lillian C) carp 4448 SW 10th at
Robt C (Helen) r237 SW 5th st apt 3
Robt C (ast cash Fla Nail Br & Tool Co 1022 S Miami st
Robt F (Otha S) driver BTRCo h rear 143 NW 24th st
Robt L (Jane W) mgr Brown Potato Chip & Pretzel Co 8239 SW 11th av apt 3
Robt W (Franklin) gnr h rear 3159 NW 23d ct
Robt M (Juanita) emp Boleber Oil Co 4214 NW 5th av
Robt N (Belvie M) carp 4521 NW 6th ct
Robt S Jr appr r2621 NW 4th ct
Robt S printer h rear 3806 NW 28th ct
Rogero A (Mary B) slann Natl Biscuit Co 384 NW 14th st
Roosevelt (c) lab r1749 NW 2d ct
Rosa (c) rear 152 NW 11th ter 3031 NW 6th at
Rosa L (c) r146 NW 1st pl
Rosa L (c) 627E Franklin av (CGrove)
Roanhe (c) Indrs r1637 NW 3d av
Rose (c) Indrs RFrancis Shop 3368A NW 11th at
Rose nurse 421 NW 3d av h do
Rose Mrs 2512 Jefferson av apt 11 (MB)
Roy E (Maude) Insp County Tax Collr 1126 SW 10th av
Roy G (Beattie A) clk Roy L Martin 2737 SW 14th ter
Ruby N 3215 NE 35d st apt 13
Russell 711 NW 5th st
Russell E (Doris) RHmore Service Sta)
Ruth (c) maid 2326 NW 11th st
Ruth (c) maid r273 NW 33th st
Ruth (c) maid r1831 NW 6th av
Ruth (c) walter 152 NW 11th ter 3031 NW 6th at
Ruth L (c) maid 2543 Hibiscus st (CGrove)
Rutherford B (Irene S) electn 3553 SW 5d st
Sallie r218 SW South River dr
Saul (Sara) Snake Shop 218 NW 3d av
Saul (c) (Ethel) lab 3227 NW 10th st
Saul (c) (Ethel) wall diggr 31450 NW 22d av
Sarah (c) Indrs 1173 NW 1st ct
Sarah (c) maid 2232 NW 9th st
Sarah (c) maid 1422 NW 2d ct
Shppard (c) r4894 NW 12th ct
Shyney H (Eleanor) meteorologist 2591 SW 19th ter
Shyney S (Maude) 4472 SW 9th ter
Shyney S cash Bull Steamship Line 2371 SW 8th st apt 2
Sissy (c) Drusilla) 15322 Thomas av (CGrove)
Sissy (c) lab r438 NW 18th st
Stanley (Mary E) acct 3430 NE 1st ct
Stanley A (Mary) mech 25411 NW 7th ct
Francis (c) maid h rear 421 NW 28th st
Steward W (Alice C) apster 4141 SW 6th at
Styria (c) cook 3231 Pine Tree dr (MB)
T. Few (Mary) steam-truss Trated Tire Co of Miami 3523 NE 21st st
Thelma (c) cook 2934 NW 2d ct
Thos (c) r483 Hibiscus st (CGrove)
Thos (Kathleen) Grov. Economy Wholesale Grocery Co r1221 NW 25th st
Thoson M r116 NW 26th st
Thos (c) r145 NW 8th st
Thos (c) Felicia) carp h rear 1761 NW 1st ct

LAWRENCE

F. H. A. FINANCING

6613 N. W. 14th St.

PHONE 3-3091

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Many thanks to:

Rebecca Bakker

- OCR expert!

Martin Kass

- Thousands of pages processed in photoshop!



PrimeOCR Job Server

File Logs Configuration Help

Wizard... Setup... Log

PrimeOCR
Reading C:\Prdev\Images\00001812.TIF
Page 1
IMAGE SIZE=1632,2544 RES=300
Intermediate Results(% Complete)82

Status Processing Job

Images Processed - All Jobs 19

# Jobs	Total	Complete	Remaining
5		0	

Job C:\Prdev\Job\Copy (2) of Job1.job

# Files	Total	Complete	Remaining
1371		19	1352

Time(h:m) 0:50 0:00 0:49

Finish Time Tue May 15 17:40:04

Confidence	# of Chars	Time(sec.)	Average
850	2924	2.19	

882	3412	1.86	00001807.TIF	C:\Prdev\Images\
853	3819	3.91	00001808.TIF	C:\Prdev\Images\
886	3192	1.41	00001811.TIF	C:\Prdev\Images\

Jobs Processed

Job#	Completed	Files	Errors	#Pages	Time(h:m)	Job Name
------	-----------	-------	--------	--------	-----------	----------

Decoding cryptic error messages:

“could not read file”

TIFFs & JPEGs

Time elapsed since scanning

Several people involved in the process

Image: http://www.primerecognition.com/prime_ocr.htm





35 Gigabytes

Not enough room on server, moved to desktop

OCR highly inaccurate

Broken into even 4-8 sections



Polk divided

Divided by category (page color)

List of Files

Description

Map It

- Polk's Miami Beach (Dade County, Fla.) City Directory 1971
 - Polk's Miami Beach (Dade County, Fla.) City Directory 1971 :Part 1
 - Polk's Miami Beach (Dade County, Fla.) City Directory 1971 :Part 2
 - Polk's Miami Beach (Dade County, Fla.) City Directory 1971 :Part 3
 - Polk's Miami Beach (Dade County, Fla.) City Directory 1971 :Part 4
 - Polk's Miami Beach (Dade County, Fla.) City Directory 1971 :Part 5
 - Polk's Miami Beach (Dade County, Fla.) City Directory 1971 :Part 6
 - Polk's Miami Beach (Dade County, Fla.) City Directory 1971 :Part 7
 - Polk's Miami Beach (Dade County, Fla.) City Directory 1971 :Part 8

75
64
426
234
74
505
394
66

- Files List with Thumbnail

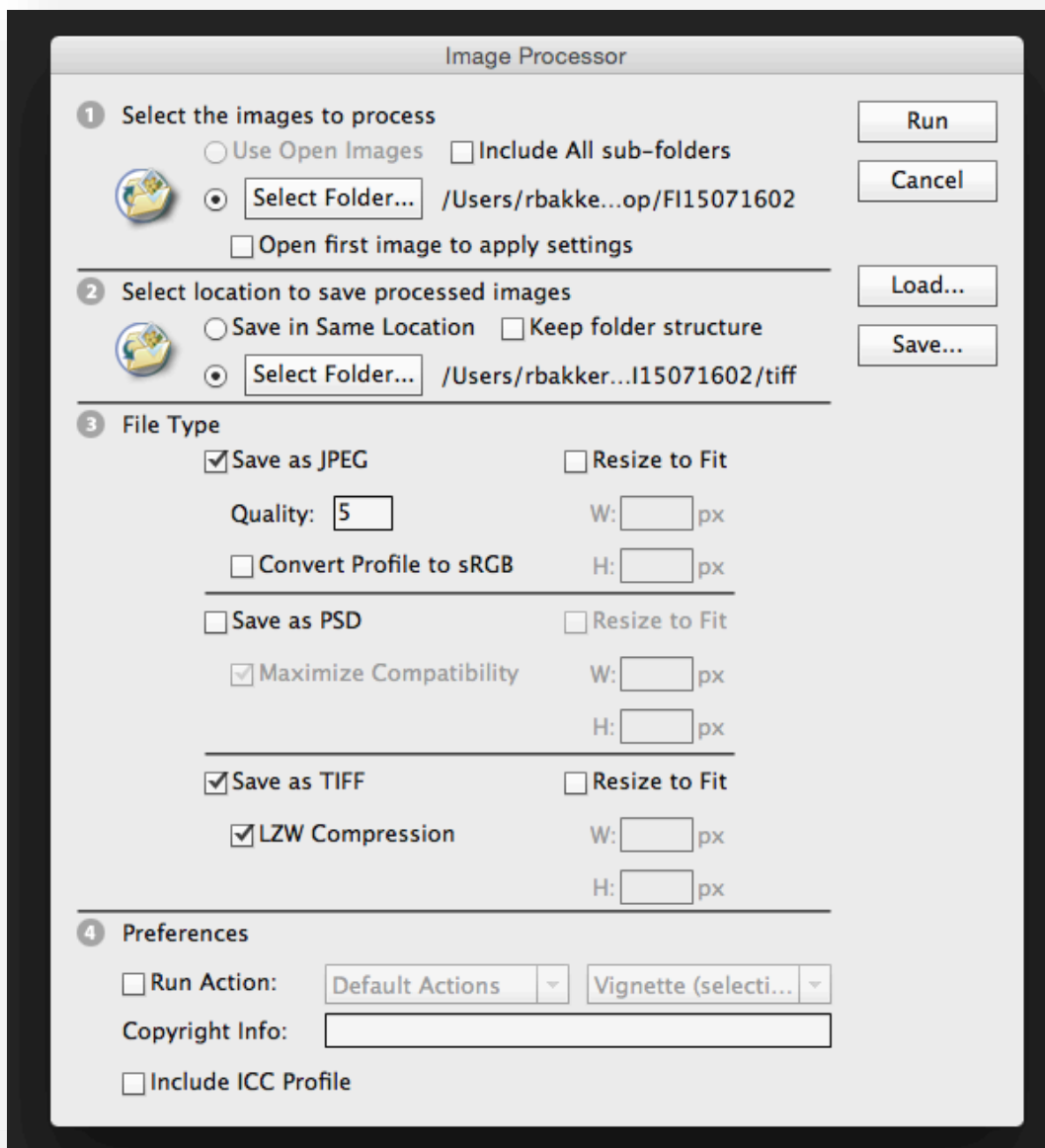
**Polk's Miami
Beach (Dade
County, Fla.) City
Directory 1971
:Part 1**

**Polk's Miami
Beach (Dade
County, Fla.) City
Directory 1971
:Part 2**

**Polk's Miami
Beach (Dade
County, Fla.) City
Directory 1971
:Part 3**

**Polk's Miami
Beach (Dade
County, Fla.) City
Directory 1971
:Part 4**





TIFF to JPEG

17,000 KB = TIFF image
(19.8 GB – 35.2 GB = directory)

300 KB after compression
(450 MB – 540 MB = directory)

Back to Photoshop!

File > Scripts > Image Processor

LZW = universal lossless
data compression algorithm

END RESULT:

70 KB – 240+ KB = JPEG
(360 MB – 640 MB) = directory





TELEPHONE 371-1461

SICKNESS ACCIDENT HEALTH

1201 BRICKELL AV.

INDUSTRIES, INC.

18000 STATE ROAD 9 MIAMI, FLORIDA 33162

KELLER

UNITED BANKING GROUP



The Miami Beach First National Bank: Alton Road at Lincoln Mall—531-0711
United National Bank: 80 South Biscayne Boulevard, Miami—377-8731
Coast Cities First National Bank: 100 Miracle Mile—445-1961
United National Bank of Dadeland: 7545 N. Kendall Dr.—665-7511

Table with 3 columns of business listings, including names, addresses, and phone numbers. Listings include various insurance, real estate, and service companies.

SHELLEY TRACTOR & EQUIPMENT COMPANY
Bucyrus-Erie
Buffalo Springfield
Later Diesel Engines
8000 N.W. 103d St., Miami
Rochester Cable
Cleveland Tractors
Vibro Plus Products
Phone 821-4040

Bitmap

Positives
A MUCH smaller file

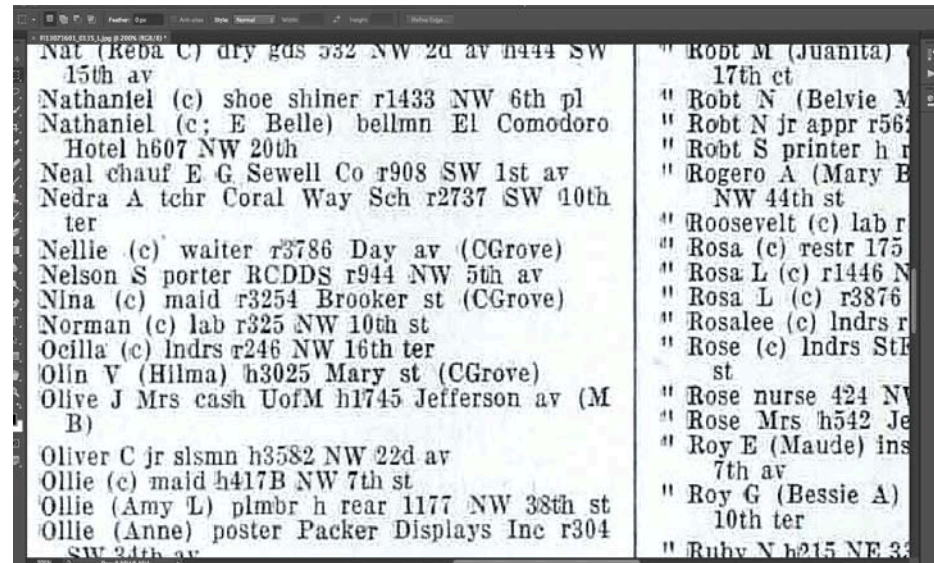
Negatives
Loss of quality in images



Before

Nat (Reba C) dry gds 532 NW 2d av h444 SW 15th av	" Robt M (Juanita) 17th ct
Nathaniel (c) shoe shiner r1433 NW 6th pl	" Robt N (Belvie M
Nathaniel (c; E Belle) bellmn El Comodoro Hotel h607 NW 20th	" Robt N jr appr r562
Neal chauf E G Sewell Co r908 SW 1st av	" Robt S printer h r
Nedra A tchr Coral Way Sch r2737 SW 10th ter	" Rogero A (Mary B NW 44th st
Nellie (c) waiter r3786 Day av (CGrove)	" Roosevelt (c) lab r
Nelson S porter RCDDS r944 NW 5th av	" Rosa (c) restr 175
Nina (c) maid r3254 Brooker st (CGrove)	" Rosa L (c) r1446 N
Norman (c) lab r325 NW 10th st	" Rosa L (c) r3876
Ocilla (c) lndrs r246 NW 16th ter	" Rosalee (c) lndrs r
Olin V (Hilma) h3025 Mary st (CGrove)	" Rose (c) lndrs StH st
Olive J Mrs cash UofM h1745 Jefferson av (M B)	" Rose nurse 424 NW
Oliver C jr slsmn h3582 NW 22d av	" Rose Mrs h542 Je
Ollie (c) maid h417B NW 7th st	" Roy E (Maude) ins 7th av
Ollie (Amy L) plmbr h rear 1177 NW 38th st	" Roy G (Bessie A) 10th ter
Ollie (Anne) poster Packer Displays Inc r304 SW 24th av	" Ruby N h215 NE 33

After



Nat (Reba C) dry gds 532 NW 2d av h444 SW 15th av	" Robt M (Juanita) 17th ct
Nathaniel (c) shoe shiner r1433 NW 6th pl	" Robt N (Belvie M
Nathaniel (c; E Belle) bellmn El Comodoro Hotel h607 NW 20th	" Robt N jr appr r562
Neal chauf E G Sewell Co r908 SW 1st av	" Robt S printer h r
Nedra A tchr Coral Way Sch r2737 SW 10th ter	" Rogero A (Mary B NW 44th st
Nellie (c) waiter r3786 Day av (CGrove)	" Roosevelt (c) lab r
Nelson S porter RCDDS r944 NW 5th av	" Rosa (c) restr 175
Nina (c) maid r3254 Brooker st (CGrove)	" Rosa L (c) r1446 N
Norman (c) lab r325 NW 10th st	" Rosa L (c) r3876
Ocilla (c) lndrs r246 NW 16th ter	" Rosalee (c) lndrs r
Olin V (Hilma) h3025 Mary st (CGrove)	" Rose (c) lndrs StH st
Olive J Mrs cash UofM h1745 Jefferson av (M B)	" Rose nurse 424 NW
Oliver C jr slsmn h3582 NW 22d av	" Rose Mrs h542 Je
Ollie (c) maid h417B NW 7th st	" Roy E (Maude) ins 7th av
Ollie (Amy L) plmbr h rear 1177 NW 38th st	" Roy G (Bessie A) 10th ter
Ollie (Anne) poster Packer Displays Inc r304 SW 24th av	" Ruby N h215 NE 33

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A A Welding & Repairs (Alf Perl) 1822 Purdy Av 673-0030
A B C Driving School (John F Parise) 1624a Alton Rd 672-3474
A B C Steno Service (Irene Williams) 350 Lincoln Rd Rm 502 538-2380
A B M Dental Supply Co Inc Mrs Bell Marmar Pres Harold Marmar V-Pres Mrs Arline Marmar Sec-Treas 350 Lincoln Rd Rm 305 534-1111
A & F Leather Goods (Emanuel Schreiber) 729 Washington Av 531-3919
A & H Apartments (Abr Hyman) 940 8th St
A & L Apartments (Mrs Lillian G Lidsky) 251 Alton Rd
A & L Apartments (Mrs Lillian G Lidsky) 242 Michigan Av 672-4123
A&M Cigo Service Station (Stan Mintz) 1349 Dade Blvd 947-9797
A Motel Row Gulf Station Laurence B Levy Mgr 16839 Collins Av (BH) 672-2161
A & P Food Stores Charles Razai Mgr 1411 Alton Rd 532-1462
A & P Food Stores Leo Renagan Mgr 300 Arthur Godfrey Rd 531-3973
A&R Sales Inc Arnold Fruitman Pres Paul Fruitman V-Pres adv splites 940 Lincoln Rd Rm 301 532-6032
A S A Stores Inc Rachel Franco Pres luggage 1364 Washington Av 534-3078
A & T Surgical Appliances Inc Fred Acuna Pres Harvey Tulin V. Pres Rena Acuna Sec-Treas 1502 Washington Av 538-0437
A United Auto Rental Inc Stan Froman Mgr 6758 Collins Av
Aarans Irma h2939 Indian Creek Dr Apt 2
Aarons See Also Aarons Aron And Arons
A E h3929 N Meridian Av Apt 14
- Albert h9700 W Bay Harbor Dr (BH) Apt 4 861-1457
- Albert A (Agnie) h8942 Carlyle Av (S) 866-2125
- Anna K (Wid Sam M) ret'd h1050 98th St (BH) Apt 4 866-2871
- Frieda h5555 Collins Av Apt 16b
- Lila Mrs h1550 Drexel Av Apt 7 534-9084
- Muriel h9499 Collins Av (S) Apt 11b 865-2715
- Pauline h4001 Prairie Av Apt 10 532-3809
- Sami h1200 West Av Apt 823 672-1677
Aarowitz Martha Mrs #800 West Av Apt 406
Aarons (See Also) Aaron Aron And Arons
- Aaron h5225 Collins Av Apt 15a 864-8183
- Abr (Lillian) ret'd h14 Farrey Ln (BI) 532-6276
- Julia ret'd r150 20th St
- Maxwell S (Dorothy) ret'd h8930 Rue Vendome (NI) Apt 6 866-4598
- Van (Sherri) h950 79th Ter Apt 1 864-7201
Aaronson Bernard (Sarahl) br mgr Jefferson Stores h500 77th St Apt 4 864-1685
- Fred (Gloria) pres Giftland rMiami Fla
- Goldie (Wid Hy) h1700 71st St (NI) 866-5158
- Irene h7545 E Treasure Dr (NBV) Apt 6d 865-1175
- L ret'd h465 Ocean Dr Apt 1114
- Louis r1410 Ocean Dr
- Mark (Evelyn) h5313 Collins Av Apt 801
- Nathl B (Lillian) h5151 Collins Av Apt 725
Abad Oscar h859 Commerce St Apt 303
- Oscar (Manuela) h730 3d St Apt 2 633-2646
- Fabio hotel wkr h859 Commerce St Apt 301
- Teresa h500 13th St Apt 12
Abadi Albert (Albert Luggage) h7144 Byron Av Apt 4 864-3697
- Racheal h2445 Pine Tree Dr Apt 1d
Aballo Francisco (Esther) h1470 Lincoln Ter Apt 1 672-1001

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Abalo Alicia hockpr Versailles Hotel rMiami Fla
Abundo Alex h6831 Abbott Av Apt 9 866-730
Abat Pedro r2800 Collins Av 538-392
Abbey Hotel Adam Celnick Pres 300 21st St 531-063
Abbott Ann ret'd r2618 Collins Av
- Arms Apartments & Motel (Monaeo Goldberg) 7830 Abbott Av 864-040
- Arms Motel & Apartments 7842 Abbott Av
- Avenue Cigo Service (Joseph Brooks Ralph Cramer) 401 71st 866-011
- Ben h1865 79th St Cway (NBV) Apt 2j 864-593
- Charles J studt r4294 Nautilus Dr
- Court Apartments 6838 Abbott Av 865-901
- & Frumkes (Jack A Abbott Melyvn B Frumkes) (wvrs 420 Lincoln Rd Rm 441 538-049
- Garden Apartments (Wilma Mc Maser) 8135 Abbott Av
- Geo h2505 Sunset Dr (SI No 2)
- House apts 7735 Abbott Av 531-289
- Jack A (Ada A) (Abbott & Frumkes) h4294 Nautilus Dr 531-906
- Manor Eva Zall Mgr apts 9473 Abbott Av (S) 866-977
- Patay h1375 Menud Ter 672-847
- Rae h1544 Michigan Av 538-796
- School Richd Bernstein Headmstr private 7705 Abbott Av 865-264
- Terrace Motel (Ted J Daniele) 8116 Abbott Av 864-738
- Towers Motel (James V Warnock) 8045 Abbott Av 866-217
Abby Building 960 Arthur Godfrey Rd
- Mae Apartments 7300 Harding Av
Abdala Nasuib h221 Jefferson Av Apt 3
Abdullah Susan h1208 71st St (NI) Apt 4
Abel (See Also) Abeles Abell And Abels
- Celia h7904 Harding Av Apt 4a 864-431
- David M (Irene) councilm'n Town Of Bay Harbor Islands h9903 E Broadview Dr (BH) 866-342
- Felix (Jeanette) ret'd h1255 Marseille Dr (NI) Apt 4 865-846
- Minnie h1055 Pennsylvania Av Apt 3 534-318
- Naomi h1710 Meridian Av Apt 10
- Richd J h16 Island Av (BD) Apt 8a 538-187
- S h8413 Harding Av Apt 9
Abelaide S h820 Meridian Av Apt 316
Abeles (See Also) Abel Abell And Abels
- David (Jeanette) h1500 Bay Rd Apt 968 673-128
- Jack (Lucie) h825 Collins Av Apt 9 534-133
- Milton h6917 Collins Av Apt 813
Abel Sami (Lillian) h900 West Av Apt 807 673-298
Abelman D h1200 West Av Apt 526
Abelow Joseph (Ruth M) pres Bandag Of Miami h4585 N Meridian Av 538-530
- Ruth lib'n Temple Emanu-El r4585 Meridian Av
Abels Peggy r4000 Collins Av
- Rose (Wid Ben) h1337 Pennsylvania Av Apt 8 531-094
Abelson Albert (Stella) ret'd h900 West Av Apt 323 672-671
- Anne (Wid Albert) h6844 Harding Av Apt 11 866-063
- Harry ret'd h690 West Av Apt 425 672-384
- Henry h401 69th St Apt 11m 864-310
- Ida h1330 Pennsylvania Av Apt 16b 531-567
- J J (Mildred) h5101 Collins Av Apt 6n 866-897
- Louis (Rose F) ret'd h60 South Shore Dr (NI) Apt 2 866-270
- Mildred Mrs pres Chain Stores r5101 Collins Av Apt 6n
- Pearl D h817 Meridian Av Apt 2 672-325
- Perry h800 West Av Apt 831
- Seth rep Dupont Glore Forgan rMiami Fla
Abemans Rose ret'd h7920 Byron Av Apt 1 538-104
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Directory = abbreviations, proper nouns

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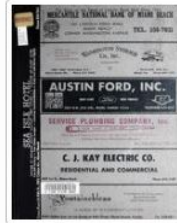
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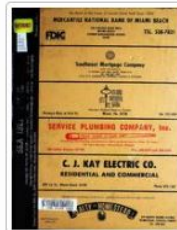
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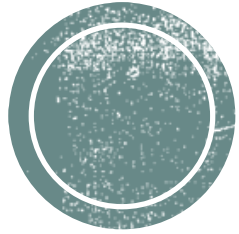
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