



Donald B. Curtis MyFamily.com, Inc.



Genealogical Data Extraction

- Keying data from digital images is costly.
- OCR can be costeffective for machineprinted documents.
- OCR projects can be delivered much more quickly than keyed projects.

YOUNG AMERICAN PATRIOTS

PIIM, Navy. Age 20. Entered Serv. June 28, 1943. Sampson, N. Y.; Japan. Awarded Am. Rib., As-Par Rib., Commendation Rib., WIII Japan. Awarded Am. Rib., As-Par Rib., Commendation Rib., WWII Vic.Med. Dach. March 20, 1946. Attended Beaver Falls HS. Protestant. Son of Mr. and Mrs. Frank Bell. Husband of Dorothy Hutron Bell., 1870 Third Ave., Beaver Falls, Pa.

BENACQUISTO, ERNEST D.

Sat. Army. Ass 22. Enserved Serv. March 19, 1943. Cps. Stoneman, San. Linio Obsique; Pransus McClehin, Hassaiti, N. Gunera, Philippines; Korac, Awarded Co., McClehin, Hassaiti, N. Gunera, Philippines; Korac, Awarded Ch., Disch. Dec. 22, 1945. Attended Alfauippa HS. Catholic, Son of Mr. and Mrs. Daniel Benacquisto, 140 First Ave., Alfauippa, Pa.

BENNETT, ROBERT W.

T/S. Army. Bern Ott. 13, 1917. Entered Serv. July 7, 1943. Cps. Chilorem: Patrick Henry; Italy: N. Africa. Wonaded in Rialy June 6, 1944. Awarded PHI, GCM, EAME Rib. 2 BS. Disch. Nov. 12, 1945. Attended Kiski Prep. Protestant. Son of Mr. and Mrs. J. Purl Bennett, Indiana, Pa. Husband of Katherine D. Bennett, 1345 Washington Ave., Monaca, Pa.

Sgt., Army. Age 27. Entered Serv. June 24, 1941. Fts. Benning, Brasg. Custers C. Atterbury. Awarded GCM, Am. Rib., Am. Del. Rib., WWIII Vie.Med. Disch. Jun. 27, 1945. Attended Jonesboro, Tenn. School. Protestant. Son of Mr. Floyd Berry, Jonesboro, Tenn. Husband of See A. Berry, 107 Linnar Plan, Aliquippa, Pa.

BETKE, ALBERT HAROLD

Pfc., Army. Born Sept. 14, 1924, Entered Serv. Mar. 25, 1943. Cp. Robinson; Africa; Italy. Wounded in Italy Jan. 22, 1944. Awarded PII, GCM, EAME Rib., 3 Rs. Pres. Unit Ct. Disch. Nov. 25, 1945. Attended Beaver Falls HS. Protestant. Son of Mr. and Mrs. Louis Betke, 1622 Sixth Ave, Beaver Falls, Pa.

BETTONI, ALBERT JOSEPH

T/5, Army. Age 28. Entered Serv. May 23, 1943. Ft. Enstis: Ensland: France; Germany; Belgium; Holland. Awarded GCM, EAME Rib., 4 BS. Disch. Jan. 1, 1946. Attended Lincoln HS. Catholic. Son of Mr. and Mrs. Elpidio Bettool. Husband of Yolanda Casciato Bettoni, Box 48, Racine, Pa.

BIELICH, MICHEOL

BIELICH, MICHEOLI
Pic, Army, Age 32. Entered Serv. Jan. 20, 1941. Pt. Sam Houston:
Cps. McCoy, Shanks; Ireland; Wales; France; Germany; Belg.;
Czch. Awarded Am. Def. Med., Comb. Inf. Badge, PH, Dist. Unit.
Cit., 2 BS. Wounded in Normandy June 13, 1944. Disch. Sept.
to, 1945. Attended Independence HS. Greek Orthodox. Son of
Mr. and Mrs. Rade Bicifels, R. D. #1, Aliquippa, Pa. Husband of
Alice Z. Bielich, 112 Walnut Ex, Aliquippa, Pa.

BIGELOW, CHARLES V., JR.

ABM 1/C Navy. Age 22. Entered Serv. March 3, 1043. Sammson. Norfolk, Newport, Edenton; Africa; England; Iceland; Newfoundland; 1046. Artended Huntingdon HB. Protestant. Son of Mr. and Mrs. Charles V. Bigelow Sr. Aliquippa, Pa. Husband of Margaret Bigelow, 102 Main Sr., Aliquippa, Pa.

BOAK, JAMES ALBERT

Pfc, Army. Age 22. Entered Serv. Dec. 22, 1942. Cp. Croft; England; France; Germany; Belgium. Awarded GCM, EAME Rib., 4 BS, Occup. Med. Disch. Jan. 11, 1946. Attended Beaver Falls HS. Protestant. Son of Mrs, and the late Mr. James M. Boak, 1706 Sixth Ave., Beaver Falls, Pa.

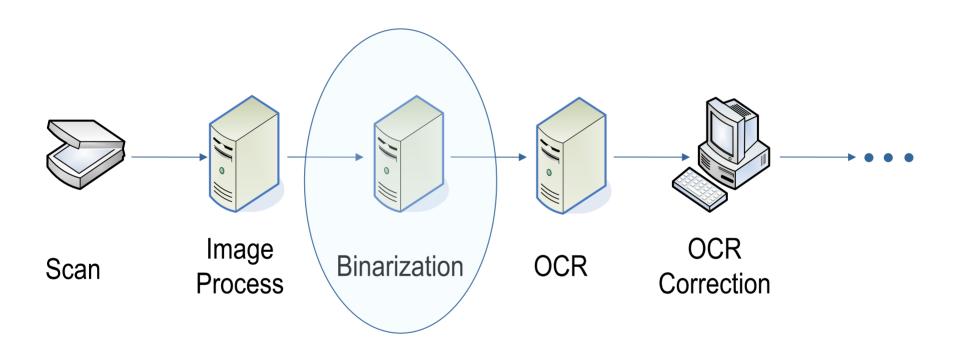
BOOK, MARCEL ERNEST

T/4, Army. Born Oct. 29, 1916. Entered Serv. Feb. 19, 1942. Ft. Bragg; Hawaii; Solomons; Fhil. 1s. Awarded As-Pac Rb., 3 RS. Phil. Lib. Rb. Disch. Oct. 7, 1945. Attended Beaver Falls HS. Catholic. Son of Mr. and the late Mrs. Stanley Book, 1900 Fourth Ave, Beaver Falls, Pa.

BEAVER COUNTY



OCR Process Flow



• Binarization is required for OCR.

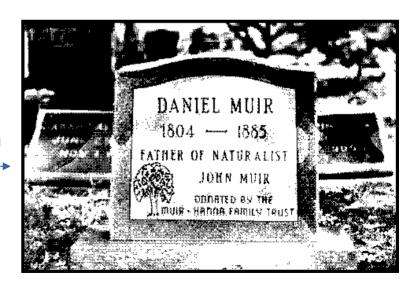


Binarization

 The process of converting a color or grayscale image to a bitonal (black-and-white) one.



Binarization





Binarization Techniques

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Sheridan A.M.64c Sutton Court of W4	Sheriff Aftab A.K.24 Buckmarter of SW11 BATterses 5228
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Sheridan Ann.118 Hamilton rd NW11	Sheriff G.F.M.A Lansdale no Tufson st SW1 ABBry 5460
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Sheridan E.S.57 Ossington st W2	Sherington Junior Girls School,
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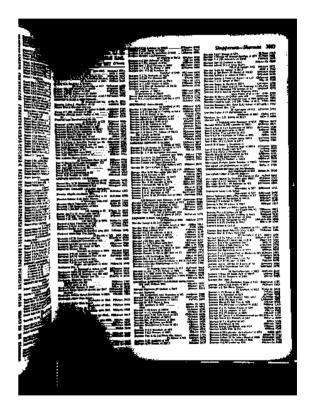
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Global Threshold





 Thresholding is turning black every pixel whose brightness/intensity is below a threshold and turning the remaining pixels white.



Adaptive Threshold

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THE REAL PROPERTY.		Sherpid & FC.26 Leiphan as SW16. ST Sherpid & FJ.87 Proper & SS20. Standard & W. 2600 C. J. Lauceleid at W10. U. U. Sharpid & Grecor Leiphan & W12. Sherpid & L. 100 Dullinger & SS12. Sherpid M. 17 W. Initiate & W14. Sherpid M. 17 W. Initiate & W14. Sherpid M. 10 M.	FReathm 6928 ViDentm 7562	Shepperson—Sherman	3083
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Sheppart R.W.F.St Ein No. v.W. Sheppart S.71 Offer H Abe v.W.	Sher B.S. Physis & Surg.218 Plashet gro E6. 6RAspend 2452 Sher D.S.LG/12 Northwood half No. MOUNTED 2567 Sher Edith, Corpetions 305 Finchity of NW2. MAMpstd 0335	Sheridan Semini o gen it) SHERIDAN ERRADA G. C. Seine. SHERIDAN ERRADA G. C. Seine. Sheridan E. L. D. Ritchich is Somption of all the services of the servi	CHArcery 5837 CHArcery 8564 ARChicay 5838	Sheriff Mr., M. J.15 Shell of SEL3. Sheriff Mr., Sushin, S. Shreathan et SW16. SEL Sheriff R.G. Sheach cold. Sel. Sheriff R.G. Theosy, 3 The Mound SE9. Sheriff R.G. Theosy, 3 The Mound SE9. Sheriff Miss. M.G. Onterfeel by WI. G. Sheriff Miss. M.G. Onterfeel by WI. G. Sheriff Miss. M.G. Denderil by WI. G. Sheriff M.E. G. Sheriff W. S. Sheriff R. W. G. Sheriff R.E. G. Sheriff R. S. Sheriff R. W. G. Sheriff R. W. G. Sheriff R. W. G. Sheriff R. S. Sheriff R. G. Sheriff R. W. G. Sheriff R. W. G. Sheriff R. G. Sheriff R. W. G. Sheriff R. W. G. Sheriff R. W. G. Sheriff R. G. Sheriff R. W. G.	Reather 1834
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	Sherbrooke Junior Girls School, Sherbrooke rd SW6FULham 39	Sheridan Dr. M.R. Physin & Surg. 205 Westbury av N22	BOWES Pk 3021 BOWES Pk 4490	Sherlock Muriel, 25 Oak Tree or N20. Sherlock Pat, 29 Grover ct Loampit hi SE33 Sherlock P.J. 35 Eitham Palace of SE9.	TIDeway 1367 ELTham 0645
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Comparing Binarizers

Old Binarizer

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New Binarizer

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- Different Binarization Algorithms produce different results.
- What is the best measure of binarization quality?



Comparing Binarizers

- Measure quality by counting OCR errors as per following procedure:
 - 1. Scan the content in grayscale.
 - 2. Binarize the grayscale images.
 - 3. OCR-process the binarized images.
 - 4. Compare the OCR results to the actual text.
 - 5. Tally the OCR errors.



Binarization Error Metrics

	Old Binarizer	New Binarizer
Added Chars	1128	43
Changed Chars	262	20
Deleted Chars	80	29
Total Errors	1470	92



Old Binarizer Results

Binarized Image

CRYPTONOMICON

21

believe that a Universal Turing Machine could show behaviors that we would construe as creative."

"Well, I don't know then ... I'll try to keep my eye out for that kind of thing in the future."

But later, as they were riding back towards Princeton, he said, "What about dreams?"

"Like those angels in Virginia?"

"I guess so."

"Just noise in the neurons, Lawrence."

"Also I dreamed last night that a zeppelin was burning."

Soon, Alan got his Ph.D. and went back to England. He wrote Lawrence a couple of letters. The last of these stated, simply, that he would not be able to write Lawrence any more letters "of substance" and that Lawrence should not take it personally. Lawrence perceived right away that Alan's society had put him to work doing something useful—probably figuring out how to keep it from being eaten alive by certain of its neighbors. Lawrence wondered what use America would find for him.

He went back to Iowa State, considered changing his major to mathematics, but didn't. It was the consensus of all whom he consulted that mathematics, like pipe-organ restoration, was a fine thing, but that one needed some way to put bread on the table. He remained in engineering and did more and more poorly at it until the middle of his senior year, when the university suggested that he enter a useful line of work, such as roofing. He walked straight out of college into the waiting arms of the Navy.

They gave him an intelligence test. The first question on the math part had to do with boats on a river. Port Smith is 100 miles upstream of Port Jones. The river flows at 5 miles per hour. The boat goes through water at 10 miles per hour. How long does it take to go from Port Smith to Port Jones? How long to come back?

Lawrence immediately saw that it was a trick question. You would have to be some kind of idiot to make the facile assumption that the current would add or subtract 5 miles per hour to or from the speed of the boat. Clearly, 5 miles per hour was nothing more than the average speed. The current would be faster in the middle of the river and slower at the banks. More complicated variations could be expected at bends in the river. Basically it was a question of hydrodynamics, which could be tackled using certain well-known systems of differential equations. Lawrence dove into the problem, rapidly (or so he thought) covering both sides of ten sheets of paper with calculations. Along the way, he realized

OCR Results

CRYPTONDMICON

21

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New Binarizer Results

Binarized Image

CRYPTONOMICON

21

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OCR Results (No Errors)

CRYPTONOMICON

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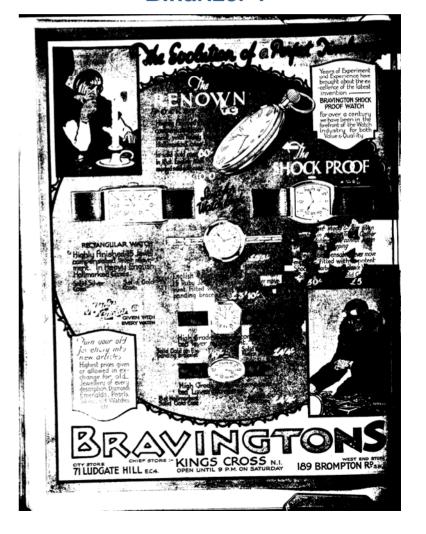
He went back to Iowa State, considered changing his major to mathematics, but didn't. It was the consensus of all whom he consulted that mathematics, like pipe-organ restoration, was a fine thing, but that one needed some way to put bread on the table. He remained in engineering and did more and more poorly at it until the middle of his senior year, when the university suggested that he enter a useful line of work, such as roofing. He walked straight out of college into the waiting arms of the Navy.

They gave him an intelligence test. The first question on the math part had to do with boats on a river: Port Smith is 100 miles upstream of Port Jones. The river flows at 5 miles per hour. The boat goes through water at 10 miles per hour. How long does it take to go from Port Smith to Port Jones? How long to come back?

Lawrence immediately saw that it was a trick question. You would have to be some kind of idiot to make the facile assumption that the current would add or subtract 5 miles per hour to or from the speed of the boat. Clearly, 5 miles per hour was nothing more than the average speed. The current would be faster in the middle of the river and slower at the banks. More complicated variations could be expected at bends in the river. Basically it was a question of hydrodynamics, which could be tackled using certain well-known systems of differential equations. Lawrence dove into the problem, rapidly (or so he thought) covering both sides of ten sheets of paper with calculations. Along the way, he realized













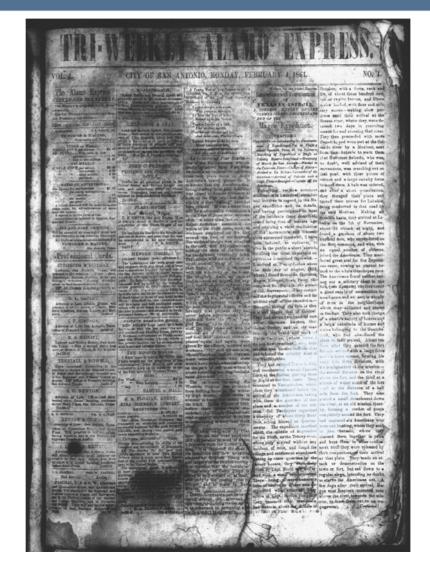






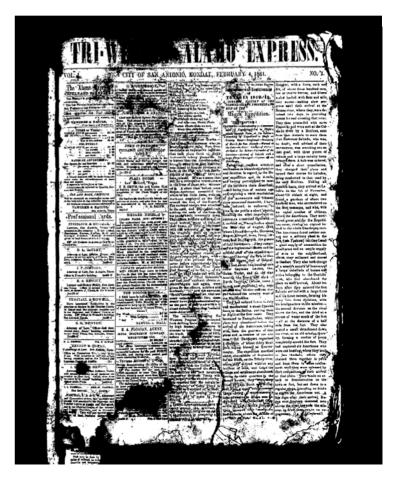


Damaged Document





Binarizer 3





Binarizer Pre-Selection Methods

- Test binarizers on sample set, comparing results to actual data.
 - Cost of generating full data for sample set.
 - Good data accuracy metrics.
- Test binarizers on sample set, comparing results to each other and comparing differences to sample documents.
 - Only need actual data for differences.
 - No metrics for actual data accuracy.



Binarizer Run-time Selection

- Run multiple binarizers and run OCR on each resulting bitonal image.
- Calculate page confidence metric from OCR data and choose page output with greatest confidence.
- OR Choose on per-character basis using character confidence metrics.
 - E.g. 'D' with confidence 6, or 'O' with confidence 8.



Conclusion

- OCR is an important way to increase genealogical content production at low cost.
- Many binarizers exist; each has different characteristics.
- To maximize OCR quality for a project, the appropriate binarizer should be used.
- We will investigate several approaches for determining which binarization to use.



Q & A



Page 21 Grayscale

CRYPTONOMICON

21

believe that a Universal Turing Machine could show behaviors that we would construe as creative."

"Well, I don't know then . . . I'll try to keep my eye out for that kind of thing in the future."

But later, as they were riding back towards Princeton, he said, "What about dreams?"

"Like those angels in Virginia?"

"I guess so."

"Just noise in the neurons, Lawrence."

"Also I dreamed last night that a zeppelin was burning."

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Binarization Example

Old Binarizer

New Binarizer

37

ICON 37

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Patrol had given Bobby Shaftoe his comrades, and so he resisted the window. He already knew ulder to shoulder, ready to die his forearm: a dragon. His dirty made a rasping sound in the

Shaftoe said, pronouncing the

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Binarization Example

Old Binarizer

New Binarizer

PEDESTRIAN

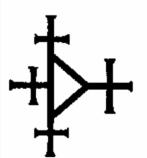
RESPECT THE

Manila. As so

trouble.

For the first couple of walking. He walked of walking. He walked

PEDESTRIAN



RESPECT THE

Manila. As so

trouble.

For the first couple