Kevin Lynagh Keming Labs

March 2013 SpeakerConf

TEMPERATURE, K

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Kevin Lynagh • Ryan Lucas





Deshredding





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Unshredder Buy

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Unshredder - Overview

Unshredder is a simple program that unleashes the power of a desktop computer to reduce the time consumed by investigators reconstructing shredded documentary evidence.

Until now the only alternative to manual processing was to engage a third party to process the work on computers at their premises. By comparison to external processing of the evidence Unshredder reduces the tumaround time, keeps full control of the investigation in-house and there is less risk of a security risk or loss of the evidence.

The original shreds remain unchanged from the process and the integrity of the original is captured electronically to be printed or despatched electronically by wire or disc.

Learning to use Unshredder is straight forward for anyone with basic computer skills, the menu is used to select an action and user input when required is entered into a dialogue box. The user interface uses a menu system and common controls to provide an intuitive application that completes work with minimal input from the user.

During document reconstruction the job can be previewed allowing minor adjustments to be made until the end result meets the standard required. When satisfied with the results the job is served to disk ready to be printed, emailed or copied for future reference. Unshredder can reconstruct a broad range of documents including strip-shred, crossshred and torn pages repidly schieving accurate professional results.

Continue with Advantages of Unshredder





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Jigsaw Puzzles with Pieces of Unknown Orientation

Andrew C. Gallagher Eastman Kodak Research Laboratories 2012

Two problems

Piece compatibility

Assembly



(a)

(b) RGB Putative Matches



(d)

(e) RGB Putative Matches



(a)

(c) MGC Putative Matches



(d)

(f) MGC Putative Matches



Semi-automatic assembly of real cross-cut shredded documents

Aaron Deever and Andrew Gallagher Eastman Kodak, 2012

























DARPA Challenge 2011

Chronological Compilation of Group Team A and B. Surveillance Logs TEAM A 1007 AM: Subject X, mule, approx Syrews old, one hum build, about S10" wearing dock colored surt and but, depurted 2800 Week of Warman Ace 1942 trailing each on Edmunds Acenve on fact, Subject tunned north on 34 Place NW, asked Z blacks before heating through an alley toward an attual lading brilding. A larger subsecus monuclearly similarly dressed, exits building heading toward subjectly. Subject X and Unknown minimal talk linking before entering the building together 10:08 pet i bis would (biget 1), make, med build, approximately 510, wearing a white Sort and hat observed membering subject & departing from 2800 black & Warmen Here. Subject Y hollows at a descret district, approximately Broken thing Street X. Silved Y enters building, across the sheet from building Subject X entered 1233 MM. Subject & raw warmy glasses and a fake machine, deputed the bollog comprog a small beg and walked south on film St. Casery through Washerd Hornesshere. Terry Burk TERM B #34 PN: Subject Y departs building resimming the hard of Subject X. Subject Y entres Walland Manuschere Turne Park Street & Stope on ceneraled perfor approximitably 25m arring from Subject K TEAM A 12:37PM: Used contract with Subject X look. Monry to reacqui 12:49 PM: Subject X appairs to be sending a message with his co TEAM B puts out small device, points it at subject X and process a bitter appears agetuba) shakes prove, books around and then depurts the the sutherest. Subject Y follows in trush EAM A dah-dehodit/deh-dit/dit/dehodit/dit-dehodit/dit-dehodit/dit-dehodit/ Stopet X. Solojest fellow Subject X entering the labely Burk Ice Melon Shatown subject X Subject Y task the Rel line such 4 shops be ERM A dt-st /stables /dt SOUTH SHOULAND up alber 3 stops on Wilcost Makes. Subject X Wit be in a horry and i 3:32 PM: Silver Y dep east for 3 Weeks when he shapped at a ber on the Low EMB And even smiling 3.57 Pr. Sugat X have Willing amond Calibred shipst 7 lift Ushoot station and proceeding wait a clife on the cannot be Usho W she across should been while color the me 358PM Subject Y a issue chease from his Indet and Appends in Dittle & Lotten. Acres an short Ant 1 TEAM A BIPH: The policement webt fit - benedit (describes aber fit to det about official looking bill yest X appears to be explored and constructly balling at his to make a short ph and demolishes the appear to be show done to the parket depute abe, and precents und ent New Humpshore Ace Nich Endmony in follow Sobject X

N23 07'55 N25'03'37" W 82° 21' 51" 224.7 Km (1)1112.7ºT (3) 55

My time on this assignment is coming to a close. after many years, it is you who must pick of the blag and carry our cause together borward. Some of you must act now so the P. vision does not factor. I have left several Bo projecte in progress, but be like invisible spirits, at first, if you must. Others of you May play smaller role, only completing a two for forge come of you may bring a mo ARTHING FLARE to our work, but never stray too far from the original intert. But remember the correct path is not always black or white . I may return briefly, from time to time, but ultimately the future of this endeavor is in your hands. PRSENT (PR)

COMRADE, Caesar : I DO NOT KNOW THE aptured by 10 pirates, cause IDENTETY OF THAT WHICH to Rome before being Gwarded 1. A master of war, he YOU SEEK BUT MY SOURCES Ilie tribes and fully documental ASSURE ME THAT THE a book titled "Commentarii HNSWER MAY LIE IN THE in this works he describes First encryption method used TITLE OF A 1937 FILM (1)dence. After the creation DERECTED BY LETVAK. ute in 1882, he was Good Luck IN YOUR dictator for life, started HUNT. was Murdered by as Chi MANY MERINAS 43 ENEMILES. ABCOFFEHIJKLMNOPQRSTUVWXYZ 12345678912345678910111213141516

17 18 19 20 21 22 (23) 1 2 3 4 5 6 2 (2) 1 2 2 4 5 6 7 8 9 10 11

(1)

2

Real world chance in hell?



500 particles per page trash can \approx 100k particles

biggest solved jigsaw 10k pieces, 24 hour compute n² scaling (distance matrix)



Use your priors



SUMBARY

By the end of 1952, it had become clear that the Reasedes povernment in Iras was incepable of reaching an oil settlement with interested Wastern countries: was reaching a dangerous and advanced stage of illegal, deficit financing; was disregarding the frankan constitotion in prolonging Premier Wohamsed Mosendey's tenure of office; was notivated estaly by Mossadeq's desire for personal power; was governed by irresponsible policies based on emotion; had weakened the Shah and the Iranian Army to a dangerous degree; and had cooperated closely with the Tudeh (Communist) Party of Iran. In view of these factors, it was estimated that Iran was in real danger of falling behind the Iren Curtain; if that happened it would mean a victory for the Soviets in the Cold War and a major methack for the West in the Middle East. No remedial action other than the covert action plan set forth below could be found to improve the exist-Lag state of affairs.

It was the sim of the TPAJAX project to cause the fall of the Nossadeq government; to reestablish the prestige and power of the Shah; and to replace the Nossadeq government with one which would govern Ivan according to

This is not an image. This is a document.



SECSST



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