



Screen Annotation of Family History Source

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BYU – Computer Science

Current Approach



- ◆ Careful (or not so careful) handwritten or typed notes
- ◆ Notes are always an extraction of the original information
 - Some information not copied
 - Errors in copying
- ◆ Family History Databases discard much of the source information

FamilySearch™ Ancestral File v4.19

```
graph TD
    1["William SALISBURY  
B: 14 Aug 1659"]
    2["William SALISBURY  
B: 12 May 1622  
D: 24 Jun 1675  
Swansea, Bristol, Ma  
M: 1659  
Boston, Suffolk, Mass"]
    5["Mrs John SALISBURY  
B: 1610  
Of Swansea, Bristol, Mass"]
    9["Mrs John SALISBURY  
B: 1585  
Swansea, Wales"]
    4["John SALISBURY  
B: ? 1587  
Wales, Wales  
D: (unknown)  
M: 1621  
Of Swansea, Bristol, Massachusetts"]
    8["John SALISBURY  
B: 1581  
Of, Llewenny, Denbighshire, Wales  
D: 1613  
M: 1586  
Swansea, Wales"]
    10[" "]

    1 --- 2
    2 --- 5
    5 --- 9
    9 --- 4
    4 --- 8
    8 --- 10
```

Download GEDCOM

William SALISBURY
B: 12 May 1622
D: 24 Jun 1675
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M: 1659
Boston, Suffolk, Mass

John SALISBURY
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Swansea, Wales

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B: 1610
Of Swansea, Bristol, Mass

Family

Family

Family

The Problem



- ◆ Getting and archiving source information in a way that is convenient for users yet provides lots of context for future review.
- ◆ Captured information must be human-usable and universally independent of any source application.

The Approach



- ◆ An increasing amount of family history information is digital
- ◆ Capture an entire screen image of information
- ◆ User highlights important information with digital ink
- ◆ Highlights allow summaries and automatic extraction

Annotating a source



FamilySearch Internet - Search - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://www.familysearch.c

ScreenCrayons Search BYU PaymentNet Books SICGHI Java

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Individual Record FamilySearch™ Pedigree Resource File

David Hubbil Brown Compact Disc #70 Pin #396589
Sex: M

Event(s):
Birth: 5 Feb 1794 **Place:** Bastard, Leeds, Ontario, Canada
Death: 1866/67 **Place:** Goodland, Lapeer, MI

Parents:
Father: [Hyrum"Jesse" Brown](#) Disc #70 Pin #396705
Mother: [Peacable Gifford](#) Disc #70 Pin #396706

Marriage(s):
Spouse: [Lucinda "Speedy" Batchelder](#) Disc #70 Pin #396590
Marriage: 13 Jun 1817 **Place:** Bastard, Leeds, Ontario, Canada

Notes and Sources:
Notes: Available on CD-ROM Disc# 70
Sources: None

Submitter:
Marvin D. POTTS



Annotating a source



http://digital.library.mcgill.ca/countyatlas/printresults.php

Search Web 16 blocked AutoFill Options

The Canadian County Atlas Digital Project

Search Results
Number of matched records = 4910

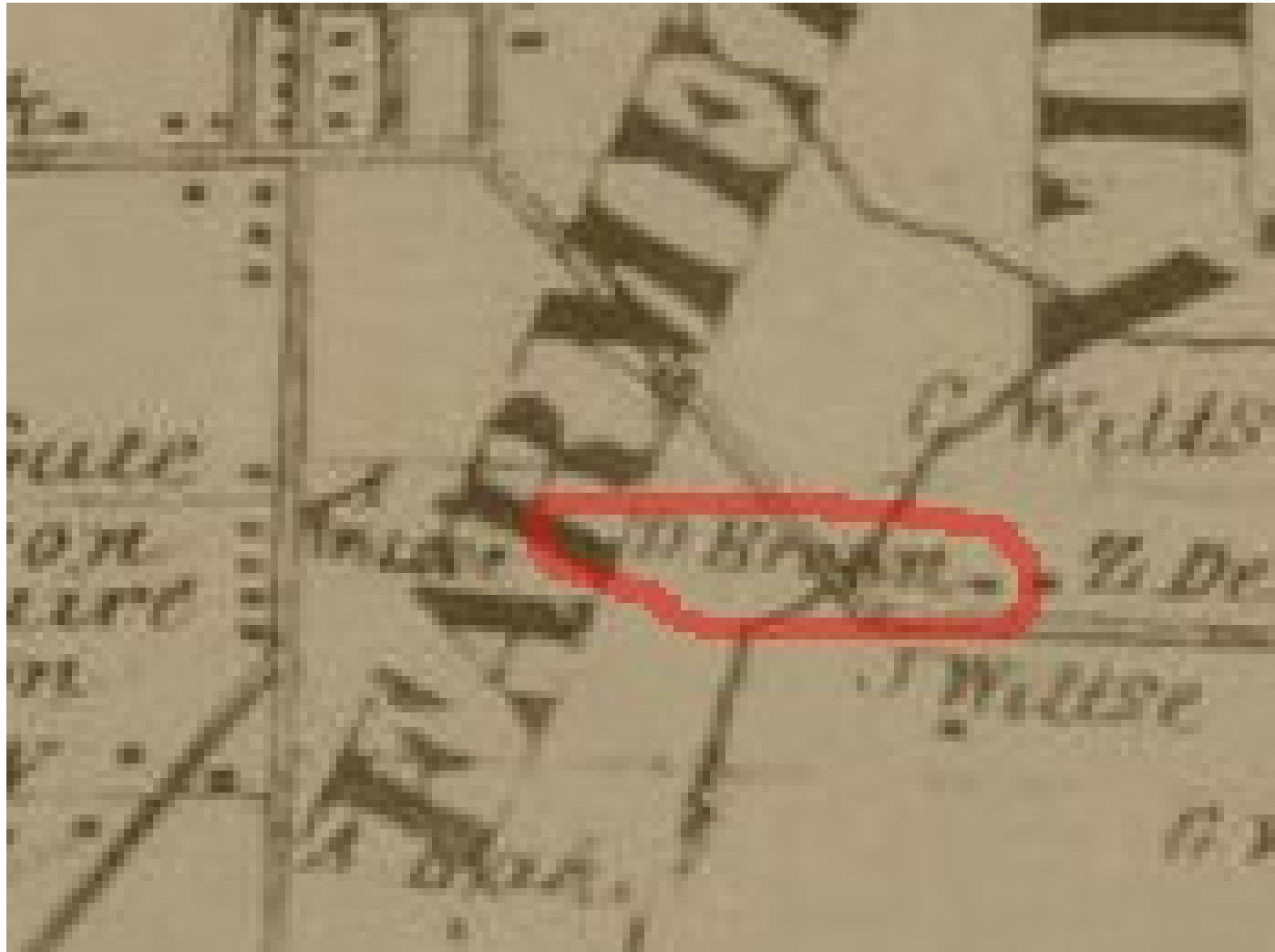
Last Name	First Name	County	Township	Town	Occu
Brown	A.	Leeds	Yonge		
Brown	A.H.	Leeds	Crosby South	Elgin	
Brown	A.W.	Leeds	Bastard		
Brown	B.	Leeds	Bastard		
Brown	B.C.	Leeds	Elizabethtown		
Brown	C.	Leeds	Crosby South		
Brown	C.	Leeds	Bastard		
Brown	D.	Leeds	Yonge		

1817 Census, David + wife

http://www.rootsweb.com/~onleedsg/docs/bast_census_1817.htm?o_xid=0039580444&o_lid=0039580444&o_xt=39580444

Bastard Twp, Census, 1817 Brown, David H.

Annotating a source



Demo



- ◆ Screen Crayons – Live

PAF mockup



Family	Pedigree	Individual
<div>Other <u>M</u>arriages...</div>		
<div>David BROWN-2236 5 Feb 1794 - Bastard, Leeds, Ontario 1866/1867 - Goodland, Lapeer, Mi</div>		
<div>Marriage: 13 Jun 1817 --680</div>		
<div>Spouse</div>		
<div>Lucinda BACHELDER-2237</div>		
<div>Parents</div>		
<div>Hyrum "Jesse" BROWN-3972 Abt 1767 - of Vt, Ma. Pa</div>		
<div>Peacable GIFFORD-3973 1770 - Conne aut, Crawford, Pennsylvania 3 Jan 1849 - Conne aut, C, Pennsylvania</div>		

Character Recognition on screen captures can perform automatic extraction of information

Space Requirements



- ◆ Average Screen Note – 500 Kbytes
- ◆ Names in Ancestral File – 36 Million
- ◆ Upper bound on notes per name – 10
- ◆ Total space to store notes – 180 Terabytes
- ◆ Price - \$180,000

Summary



- ◆ Sources are easy to capture from any digital source
- ◆ Image annotations are easily summarized and reused.
- ◆ Using annotated images as a universal source is cost effective with today's technology

Questions?

