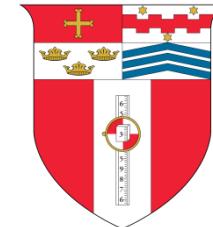


Extraction Rule Creation by Text Snippet Examples

David W. Embley (Brigham Young University & FamilySearch)

George Nagy (Rensselaer Polytechnic Institute)



Project Objectives

- Extraction Engines
 - Rules
 - NLP
 - Machine Learning
- Organization Pipeline
 - Curate
 - Import

THE ELY ANCESTRY. 419
SEVENTH GENERATION.

241213. Mary Eliza Warner, b. 1826, dau. of Samuel Selden Warner and Azubah Tully; m. 1850, Joel M. Gloyd (who was connected with Chief Justice Waite's family).

243312. Margaret Huntington Lathrop (widow), Boonton, N. J., b. 1810, dau. of Mary Ely and Gerard Lathrop; m. 1835, Donald McKenzie, West Indies, who was b. 1812, d. 1859.
(The widow is unable to give the names of her husband's parents.)
Their children:

1. Mary Ely, b. 1856, d. 1889.
2. Gerard Lathrop, b. 1858.

243312. William Gerard Lathrop, Boonton, N. J., b. 1812, d. 1882, son of Mary Ely and Gerard Lathrop; m. 1837, Charlotte Brackett Jennings, New York City, who was b. 1818, dau. of Nathan Tilestone Jennings and Maria Miller. Their children:

1. Maria Jennings, b. 1838, d. 1840.
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3. Donald McKenzie, b. 1843, d. 1843. ¹ Twins.
4. Anna Margaretta, b. 1841.
5. Anna Catherine, b. 1845.

243314. Charles Christopher Lathrop, N. Y. City, b. 1817, d. 1865, son of Mary Ely and Gerard Lathrop; m. 1856, Mary Augusta Andrus, 992 Broad St., Newark, N. J., who was b. 1825, dau. of Judge Caleb Halstead Andrus and Emma Sutherland Goble. Mrs. Lathrop died at her home, 992 Broad St., Newark, N. J., Friday morning, Nov. 4, 1868. The funeral services were held at her residence on Monday, Nov. 7, 1868, at half past two o'clock P. M. Their children:

1. Charles Halstead, b. 1858, d. 1861.
2. William Gerard, b. 1859, d. 1861.
3. Theodore Andrus, b. 1860.
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Miss Emma Goble Lathrop, office manager of the New York Chapter of the Daughters of the American Revolution, is one of the younger members to hold office, but one whose intelligence and capability qualify her for such distinction. Miss Lathrop is not without experience; in her present home and native city, Newark, N. J., she has filled the position of secretary and treasurer to the Girls' Aid Society of the First Presbyterian Church, Women's Auxiliary of Trinity Church Parish, treasurer of the St. Catherine's Guild of St. Barnabas Hospital, and manager of several of Newark's charitable institutions which her grandfather were instrumental in founding. Miss Lathrop carries her lineage back through many generations of famous progenitors on both sides. Her paternal ancestors were among the early settlers of New Jersey, among them John Ogden, who received patent in 1664 for the purchase of Elizabethtown, and who in 1673 was



The screenshot shows a Windows-based application window titled "573.xml (~\Documents\others\by.edu\data\leb\000001.TheElyAncestry8.gedcom\8.1.results-generated - GVIM)". The code is a complex XML document representing genealogical data. It includes elements like <Person>, <Gender>, <Name>, <BirthPlace>, <DeathPlace>, and various <ChangeMessage> tags indicating updates or corrections made to the original data. The XML uses namespaces such as http://gedcom.org/ and http://gedcom.org/interpreted/.

- Rule Creation by Text Snippet Examples
 - (Hopefully) usable by non-experts
 - (Hopefully) rapid development
 - (Hopefully) high quality results

Pattern Examples

PARISH OF KILBARCHAN.

REGISTER OF MARRIAGES, 1649-1772, AND BAPTISMS, 1651-1769.

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A

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1

THE ELY ANCESTRY. SEVENTH GENERATION.

419

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Patterh Examples - Intermediate (records)

Adam, James, in Kilbarchan, and Jane Lyle

p. 2 Aug. 1746

William, born 23 June 1747.

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Couple

ALBRIGHT, ESTHER R. d 1 Jan 1946 113 Sherman St Dayton OH BD Abbottsville Cem
Dke Co OH 3 Jan 1946 b 22 July 1863 Butler Co OH age 82-6-9 f THOMAS
BENTON MORRIS Butler Co OH m ANGELINE HARROD Hamilton Co OH housekeeper
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12 grandchildren 2 brothers ARTHUR MORRIS Venice OH & SAM MORRIS Harrison
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Person

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p. 2 Aug. 1746

Couple record

Name: ^ Adam, James,
SpouseName: and Jane Lyle
MarriageDate: p. 2 Aug. 1746 \$

Name: ^ Cap , Cap ,
SpouseName: and Cap Cap
MarriageDate: p. Num Cap . Num \$

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p. 2 Aug. 1746

Person record

Name: ^James, born
Name: ^Janet, 24
ChristeningDate: , 24 Nov. 1754. \$
BirthDate: born 24 Oct. 1758. \$

Name: ^ Cap , born
Name: ^ Cap , Num

...

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Family record

Parent1: ^ Adam, James,
Parent2: and Jane Lyle
Child: ^ James, born
Child: ^ Janet, 24

Parent1: ^ Cap , Cap ,
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...
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Step1: Specify the Records

COMET Home Form Builder Logout

Person Information Add a Form

Person

Name	*	>
GenderDesignator		>
BirthDate		>
BirthPlace		>
ChristeningDate		>
ChristeningPlace		>
DeathDate		>
DeathPlace		>
BurialDate		>
BurialPlace		>

Couple

Name	*	>
SpouseName	>	>
MarriageDate	>	>
MarriagePlace	>	>
...

Family

Parent1	*	>
Parent2		>
Child		>
...		

Step 2: Create Rules

Person

Name *	GenderDesignator	BirthDate	BirthPlace	ChristeningDate	Ch
James				15 Dec. 1672	

James, 15 Dec. 1672. ELINE Run Save

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Step 2: Create Rules

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William		23 June 1747			

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Isobel, born 12 Nov. 1761.
Adam, James, and Janet Aitken p. 13 July 1751
Adam, James, in Coalboag, and Margaret Aitken
Mathew, born 19 June 1752.
Janet, born 26 Nov. 1754.
Elizabeth, born 15 April 1756.
William, 24 Oct. 1760.
Adam, John, in Penall
Joan, 25 April 1651.
John, 30 May 1652.
Isobell, 23 Mar. 1655.
Adam, John, par. of Lochwinnoch
Marion, 24 Jan. 1662.
Adam, John, and Jean Reid
John, 14 Nov. 1673.
Adam, John, par., and Agnes Andro in Killellan, in Clavens 1691
m. Killellan 23 Jan. 1679
Janet, 8 Nov. 1691.
Mary, 2 April 1693.
Adam, John, and Janet King, in Kilmacolm
John, June 1683.
Adam, John, in Kirkton, and Margaret How
William, 24 Nov. 1689.
Jean, 13 Mar. 1692.
Margaret, 8 June 1694.
Adam, John, in Barr, and Agnes Cochran
William, 5 May 1703.
Elizabeth, 24 June 1705.
Robert, 3 Oct. 1709.

Step 2: Create Rules (check rule set)

Name *	GenderDesignator	BirthDate	BirthPlace	ChristeningDate	Ch
James				15 Dec. 1672	
Robert				15 Oct. 1676	
Margaret					
William		23 June 1747			
James		19 June 1749			
Mary					
Janet				24 Nov. 1754	
William					
James					
Isobel					
Mathew		29 June 1752			
Janet					
Elizabeth		15 April 1756			
William				24 Oct. 760	
Joan					
John					
Isobell				23 Mar. 1655	

The dates, unless otherwise stated, are those of Baptisms.

p. means proclaimed; m. married.

Adam, James, and Jannet Bannatyne, in Hair Lawis, 1676

James, 15 Dec. 1672.

Robert, 15 Oct. 1676.

Margaret, 6 April 1679.

Adam, James, in Kilbarchan, and Jane Lyle

William, born 23 June 1747.

James, born 19 June 1749.

Mary, born 5 Jan. 1752.

Janet, 24 Nov. 1754.

William, born 10 Dec. 1755.

James, born 24 Oct. 1758.

Isobel, born 12 Nov. 1761.

Adam, James, and Janet Aitken

Adam, James, in Coalboag, and Margaret Aitken

Mathew, born 29 June 1752.

Janet, born 26 Nov. 1754.

Elizabeth, born 15 April 1756.

William, 24 Oct. 1760.

Adam, John, in Penall

Joan, 25 April 1651.

John, 30 May 1652.

Isobell, 23 Mar. 1655.

Adam, John, par. of Lochwinnoch

Marion, 24 Jan. 1662.

Adam, John, and Jean Reid

John, 14 Nov. 1673.

Adam, John, par., and Agnes Andro in Killellan, in Clavens 1691

m. Killellan 23 Jan. 1679

* Janet, 8 Nov. 1691.

Mary, 2 April 1693.

Adam, John, and Janet King, in Kilmacolm

John, June 1683.

Adam, John, in Kirkton, and Margaret How

William, 24 Nov. 1689.

Jean, 13 Mar. 1692.

Margaret, 8 June 1694.

Adam, John, in Barr, and Agnes Cochran

William, 5 May 1703.

Elizabeth, 24 June 1705.

Robert, 3 Oct. 1709.

Step 3: Process Candidate Rules

1523	Name	. 1753 Brown, William, in Kilbarchan, and Sarah	>	Make	Dismiss
48	Name	Feb. 1759. Brune, William Jeane,	>	Make	Dismiss
19	Name	Oct. 1752. Napier and William, born 8 Feb	>	Make	Dismiss
18	Name	Robert, in Hilhead James (daughter), 8 June	>	Make	Dismiss

John, 16 Feb. 1690.	m. 25 Dec. 1691
Brown, John, and Jean Cumming, in Kirkton Jean, 3 Sept. 1693.	
Brown, John, and Jean Wilson, in Meiklefultoun Margaret, 28 July 1698.	
Brown, John, in Kilbarchan, and Jane M'Dowall Jane, born 3 Mar. 1764.	p. 13 Nov. 1761
Brown, Matthew, par. of Killellan, and Elizabeth Kibble, par. p. 21 June 1765	
Broune, Robert, in Hilhead James (daughter), 8 June 1655.	
Broune, William, in Fultoune, 1656 in Little Fultoune —, son, 6 May 1655.	
James, 18 May 1656.	
Agnes, 15 Jan. 1658.	
Robert, 30 Jan. 1659.	
Katherine, 26 Feb. 1660.	
Agnes, his daughter, gotten in adultery with Jeane Adam, presented by Robert Adam, in Clippings, 18 May 1655.	
Broune, William, and Margaret Henderson, par. of Paisley, in Mains of Houstoun	m. 10 Nov. 1676
William, 26 Aug. 1677.	
Margaret, 16 April 1680.	
Marie, 22 June 1689. —	
Brown, William, and Janet Cochran, in Little Fultoun	m. 1 June 1682
Robert, 6 June 1690.	
Alexander, 18 May 1693.	
Alexander, 27 May 1694.	
Elizabeth, 27 Sept. 1696.	
Hugh, 20 Jan. 1698.	
Brown, William, elder, in Littlefultoun Alexander, 3 Jan. 1692.	
Brown, William, in Kirktown, and Isobel Allason Anna, 10 Nov. 1695.	
William, 26 Dec. 1697.	
Martha, 2 Feb. 1701.	
May, 23 May 1706.	
Brown, William, par., and Agnes M'Gibb, in Glasgow	p. 25 Aug. 1753
Brown, William, in Kilbarchan, and Sarah Douglas Mary, born 11 Mar. 1765.	
Bruce, John, at Craigends, and Elizabeth Martin William, born 17 Feb. 1759.	
Brund, William Jeane, 1 July 1653.	

Step 3: Process Candidate Rules

Person					
Name *	GenderDesignator	BirthDate	BirthPlace	ChristeningDate	Ch
James					
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Jean, 3 Sept. 1693.
 Brown, John, and Jean Wilson, in Meiklefultoun
 Margaret, 28 July 1698.
 Brown, John, in Kilbarchan, and Jane M'Dowall p. 13 Nov. 1761
 Jane, born 3 Mar. 1764.
 Brown, Matthew, par. of Killellan, and Elizabeth Kibble, par. p. 21 June 1765
 Broune, Robert, in Hilhead
 James (daughter), 8 June 1655.
 Broune, William, in Fultoune, 1656 in Little Fultoune
 —, son, 6 May 1655.
 James, 18 May 1656.
 Agnes, 15 Jan. 1658.
 Robert, 30 Jan. 1659.
 Katherine, 26 Feb. 1660.
 Agnes, his daughter, gotten in adultery with Jeane Adam,
 presented by Robert Adam, in Clippings, 18 May 1655.
 Broune, William, and Margaret Henderson, par. of Paisley,
 in Mains of Houstoun m. 10 Nov. 1676
 William, 26 Aug. 1677.
 Margaret, 16 April 1680.
 Marie, 22 June 1689.
 Brown, William, and Janet Cochrane, in Little Fultoun m. 1 June 1682
 Robert, 6 June 1690.
 Alexander, 18 May 1693.
 Alexander, 27 May 1694.
 Elizabeth, 27 Sept. 1696.
 Hugh, 20 Jan. 1698.
 Brown, William, elder, in Littlefultoun
 Alexander, 3 Jan. 1692.
 Brown, William, in Kirktown, and Isobel Allason
 Anna, 10 Nov. 1695.
 William, 26 Dec. 1697.
 Martha, 2 Feb. 1701.
 May, 23 May 1706.
 Brown, William, par., and Agnes M'Gibb, in Glasgow p. 25 Aug. 1753
 Brown, William, in Kilbarchan, and Sarah Douglas
 Mary, born 11 Mar. 1765.
 Bruce, John, at Craigends, and Elizabeth Martin
 William, born 17 Feb. 1759.
 Brune, William
 Jeane, 1 July 1653.

Step 3: Process Candidate Rules

19 Name Oct. 1752. Napier and William, born 8 Feb > Make Dismiss

John, born 20 Sept. 1765.
Inglis, John, in Kilbarchan, and Janet Lang, 1768 in Muir of Waterstoun p. 7 May 1763
Janet, born 13 Aug. 1763.
Janet, born 30 May 1766.
John, born 2 Oct. 1768.
Inglis, John, in Quarreltoun, Abbey par. of Paisley
Elizabeth, born 7 June 1768.
Inglis, William and Anne Colquhoun
Patrick, 4 Jan. 1745.
Alexander, 20 Mar. 1748.
Inglis, William, and Lillias Campbell
William, born 17 April 1762.
Inglis, William, in Kilbarchan, and Janet Cameron p. 10 Sept. 1768
Janet, born 25 Nov. 1769.
Inglis, William, in Abbey par. of Paisley, and Barbara Orr p. 23 Nov. 1770
Jack, Matthew, par., and Agnes Whyte, par. of Houstoun p. 30 Mar. 1764
Jackson, Andrew, in Mains of Blackstoun, and Agnes Wilson
James, born 7 June 1750.
James, born 22 Oct. 1752.
Napier and William, born 6 Feb. 1755.
Napier, born 6 May 1758.
Jackson, James, and Margaret Love m. 8 Dec. 1659
Jackson, James, in Clochodrick
Issabell, 10 Sept. 1660.
Jackson, James, in Auchnames, and Mary Love
—, 16 April 1675.
Jackson, Robert, and Elizabeth Riddell
Patrick, 1 Aug. 1701.
Jackson, Robert, in Hutthead, and Isobel King
James, 20 April 1705.
Jackson, Robert, and Janet Speir p. 13 Aug. 1763
Jackson, William, in Cartside, and Marion Hill
William, 3 Jan. 1706.
Jameson, Hugh, and Janet Ewen, in Minialbroch, in Lochwinnoch par.
Isabell, 5 July 1691.
Jamieson, James, in Corbar, and Mary Jackson
Robert, born 24 Oct. 1767.
Jameson, John, and Jonet Brydon, in Lochwinnoch
Agnes, 16 Mar. 1673.
Jameson, John, and Issabell Barclay, in Lochwinnoch
Hugh, 9 Feb. 1679.
Jamieson, John, in Burnside of Ranfurly, and Agnes Lang

GreenQQ (current implementation)

- Green: tools that improve with use
- Q1: Quick
 - Quick to learn to use
 - Quick to execute
- Q2: Quality
 - Quality rules
 - Quality results
- GreenQQ characterization: record-based NER

Demo (input doc's)

1742

Houston William lawful son to Mr Houston in Kilbarchan and Anne Garner his spouse was baptiz'd Sept 7 1676.

Stuart lawful child to Robert Stuart in the land of Hattie Nine Mylles his spouse was born Oct 20 baptiz'd Sept 29.

Stevenson Mary, lawful D^r to James Stevenson by Barbara Aitken his spouse was baptiz'd Dec 3^r.

Aitken Elizabeth, lawful D^r to John Aitken by Janet Wilson his spouse was baptiz'd Dec 5^r.

Reid John, lawful son to John Reid and Margt. Storie his spouse was baptiz'd Dec 7 1676.

Stevenson Marion, lawful D^r to James Stevenson and Janet Martha his spouse was baptiz'd Dec 7 1676.

Hamilton Alexander, lawful son to John Hamilton Gardner to Blackstoun was baptiz'd Dec 8 1676.

Snodgrass Margaret, lawful D^r to Mat^r. Snodgrass by Elizabeth Nobell his spouse was baptiz'd Dec 8 1676.

Aitken John, lawful son to James Aitken in land of Les & Mary Henderson his spouse was baptiz'd Dec 8 1676.

1743

Marshall Janet, lawful D^r to John Marshall by Margt. Hunter his spouse was baptiz'd January 23^r.

```

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PARISH OF KILBARCHAN.

REGISTER OF MARRIAGES, 1649-1772, AND BAPTISMS, 1651-1769.

The dates, unless otherwise stated, are those of Baptisms.
p. means proclaimed; m. married.

Adam, James, and Jannet Bannatyne, in Hair Lawis, 1676	
James, 15 Dec. 1672.	
Robert, 15 Oct. 1676.	
Margaret, 6 April 1679.	
Adam, James, in Kilbarchan, and Jane Lyle	p. 2 Aug. 1746
William, born 23 June 1747.	
James, born 19 June 1749.	
Mary, born 5 Jan. 1752.	
Janet, 24 Nov. 1754.	
William, born 10 Dec. 1755.	
James, born 24 Oct. 1758.	
Isobel, born 12 Nov. 1761.	
Adam, James, and Janet Aitken	
Adam, James, in Coalboag, and Margaret Aitken	p. 13 July 1751
Mathew, born 29 June 1762.	

PARISH OF KILBARCHAN.

REGISTER OF MARRIAGES, 1649-1772, AND BAPTISMS, 1651-1769.

The dates, unless otherwise stated, are those of Baptisms.
p. means proclaimed; m. married.

Adam, James, and Jannet Bannatyne, in Hair Lavvis, 1676	
James, 15 Dec. 1672.	
Robert, 15 Oct. 1676.	
Margaret, 6 April 1679.	
Adam, James, in Kilbarchan, and Jane Lyle p. 2 Aug. 1746	
William, born 23 June 1747.	
James, born 19 June 1749.	
Mary, born 5 Jan. 1752.	
Janet, 24 Nov. 1754.	
William, born 10 Dec. 1755.	
James, born 24 Oct. 1758.	
Isobel, born 12 Nov. 1761.	
Adam, James, and Janet Aitken p. 13 July 1751	
Adam, James, in Coalboag, and Margaret Aitken	
Mathew, born 29 June 1752.	

Demo (I/O)

Records

Name	Value	BirthDate
Name,4,11,1,1,4	William	BirthDate,4,11,4,2,6,23,June,1747
Name,4,12,1,1,4	James	BirthDate,4,12,4,2,6,19,June,1749
Name,4,13,1,1,4	Mary	BirthDate,4,13,4,2,6,5,Jan.,1752
Name,4,15,1,1,4	William	BirthDate,4,15,4,2,6,10,Dec.,1755
Name,4,16,1,1,4	James	BirthDate,4,16,4,2,6,24,Oct.,1758
Name,4,17,1,1,4	Isobel	BirthDate,4,17,4,2,6,12,Nov.,1761
Name,4,20,1,1,4	Mathew	BirthDate,4,20,4,2,6,29,June,1752
Name,4,21,1,1,4	Janet	BirthDate,4,21,4,2,6,26,Nov.,1754
Name,4,22,1,1,4	Elizabeth	BirthDate,4,22,4,2,6,15,April,1756
Name,5		,1763
Name,5		,1765
Name,5,20,1,1,4	James	BirthDate,5,20,4,2,6,20,Sept.,1744
Name,5,29,1,1,4	Robert	BirthDate,5,29,4,2,6,12,May,1747
Name,5,30,1,1,4	Matthew	BirthDate,5,30,4,2,6,11,April,1749
Name,5,31,1,1,4	William	BirthDate,5,31,4,2,6,22,April,1756
Name,5,37,1,1,4	Jane	BirthDate,5,37,4,2,6,4,July,1755
Name,5,38,1,1,4	Margaret	BirthDate,5,38,4,2,6,9,Sept.,1757
Name,5,39,1,1,4	John	BirthDate,5,39,4,2,6,21,Oct.,1762
Name,5,40,1,1,4	James	BirthDate,5,40,4,2,6,26,Oct.,1764
Name,5,41,1,1,4	Janet	BirthDate,5,41,4,2,6,14,April,1768
Name,5,43,1,1,4	Mary	BirthDate,5,43,4,2,6,15,May,1758
Name,5,44,1,1,4	Christian	BirthDate,5,44,4,2,6,1,May,1760
Name,5,45,1,1,4	Janet	BirthDate,5,45,4,2,6,19,Jan.,1764
Name,5,46,1,1,4	Robert	BirthDate,5,46,4,2,6,28,May,1766
Name,5,47,1,1,4	Jane	BirthDate,5,47,4,2,6,28,Aug.,1768
Name,6,43,1,1,4	William	BirthDate,6,43,4,2,6,2,Nov.,1756
Name,6,46,1,1,4	Robert	BirthDate,6,46,4,2,6,2,Dec.,1761
Name,6,48,1,1,4	Thomas	
Name,7,23,1,1,4	Mary	BirthDate,7,23,4,2,6,20,June,1755
Name,7,35,1,1,4	James	BirthDate,7,35,4,2,6,24,July,1759

Input

	A	B	C	D	E
1					
2	LIT	born			
3					
4	EX	Name	SLINE William, born	William	
5	EX	BirthDate	born 23 June 1747. ELINE	23 June 1747	
6					
7					

Output

```
FamilyMain Elapsed time = 2.64 seconds
```

```
>>>
```

Templates:

```
1,1118,['Name'],['SLINE', 'William', ',', 'born']"  
2,959,['BirthDate'],['born', '23', 'June', '1747', '.', 'ELINE']"
```

Robert, born 2 Dec. 1761.
Aitken, Margaret, in Boyd'syard
Thomas, born 23-24 May 1750.

Demo (candidate rule generation)

SLINE Elizabeth , 24 June 1705 . ELINE

ChristeningDate

Name _____

ELINE Elizabeth , 24 June 1705 . ELINE

SLINE Elizabeth (natural), 29

Name _____

Initial Experimental Results

Adam, James, in Kilbarchan, and Jane Lyle
William, born 23 June 1747.
James, born 19 June 1749.
Mary, born 5 Jan. 1752.
Janet, 24 Nov. 1754.
William, born 10 Dec. 1755.
James, born 24 Oct. 1758.
Isobel, born 12 Nov. 1761.

p. 2 Aug. 1746

Kilbarchan Accuracy Results (Pages 20, 41, 123)

Initial Experimental Results

ALBRIGHT, ESTHER R. d 1 Jan 1946 113 Sherman St Dayton OH BD Abbottsville Cem
 Dke Co OH 3 Jan 1946 b 22 July 1863 Butler Co OH age 82-6-9 f THOMAS
 BENTON MORRIS Butler Co OH m ANGELINE HARROD Hamilton Co OH housekeeper
 widow sp WINFIELD S. ALBRIGHT 1 daughter Mrs HENRY RANCH 4 sons HENDER-
 SON of Greenville WILBUR of Greenville GEO of Dayton ELBERT of Dayton
 12 grandchildren 2 brothers ARTHUR MORRIS Venice OH & SAM MORRIS Harrison
 OH 2 sisters Miss ELLA MORRIS Greenville OH & Mrs ADA HARP Tulsa OK

Miller Accuracy Results (Pages 296, 318, 363)												
Class / Record	Nr. Rules	Nr. Found in Book	Nr. In Pages	Soft: Correct = Correct+Partial			Hard: Incorrect = Partial+Incorrect			Precision	F-score	
				Correct	Partial	Incorrect	Recall	Precision	F-score			
Name	2	15265	30	29	1	0	1.00	1.00	1.00	0.97	0.97	0.97
DeathDate	1	12629	30	30	0	0	1.00	1.00	1.00	1.00	1.00	1.00
DeathPlace	3	5940	26	19	0	0	0.73	1.00	0.84	0.73	1.00	0.84
BurialPlace	2	4865	7	6	0	0	0.86	1.00	0.92	0.86	1.00	0.92
BurialDate	3	1545	26	7	0	0	0.27	1.00	0.42	0.27	1.00	0.42
BirthDate	1	9608	21	21	0	0	1.00	1.00	1.00	1.00	1.00	1.00
BirthPlace	4	3090	21	9	0	1	0.43	0.90	0.58	0.43	0.90	0.58
SpouseName	3	3802	15	10	1	1	0.73	0.92	0.81	0.67	0.83	0.74
Father	2	6006	21	13	7	0	0.95	1.00	0.98	0.62	0.65	0.63
Mother	2	5846	17	13	4	0	1.00	1.00	1.00	0.76	0.76	0.76
Field Values	23	68596	214	157	13	2	0.79	0.99	0.88	0.73	0.91	0.81
Record	1	15265	30	29	0	1	0.97	0.97	0.97	0.97	0.97	0.97

“Gotchas”

- Document applicability
- Record identifiers
- Overlapping records
- OCR errors
- Ambiguity
- Boundary-crossing patterns
- Application tailoring

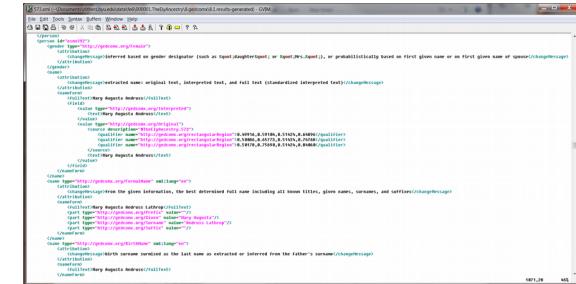
THE ELY ANCESTRY. 419
SEVENTH GENERATION.

24123. Mary Eliza Warner, b. 1826, dau. of Samuel Selden Warner and Mary (Lathrop) Warner; m. Joel M. Gloyd (who was connected with Chief Justice Waite's family).

24124. Alpheal Huntington Lathrop (widow), Boston, N. J., b. 1816, dau. of Charles and Gertrude Lathrop; m. c.1835 Donald McKeon, Jr., West Indies, who was b. 1812, d. 1890.
(Note: This record is unable to give the names of her husband's parents.)
Their children:

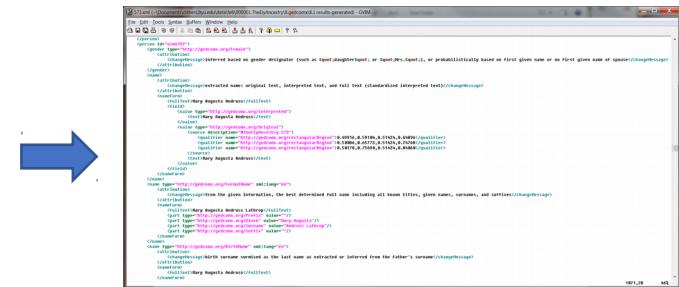
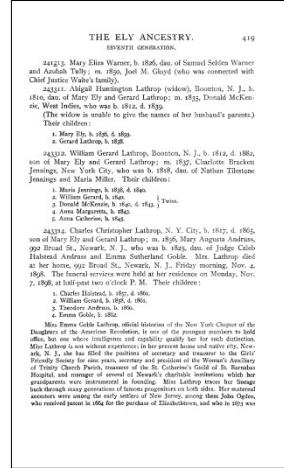
1. Mary Eliza, b. 1842, d. 1868.
24125. William Gerard Lathrop, Boston, N. J., b. 1812, d. 1885 son of Mary Ely and Gerard Lathrop; m. 1837, Charlotte Brackett (widow); dau. of John and Charlotte (Brackett) Lathrop, dau. of Nathan Thomas Jennings and Maria Miller. Their children:
 1. Maria Jennings, b. 1848, d. 1848.
 2. Charles Christopher Lathrop, b. 1850, d. 1927.
 3. Donald McKeon, b. 1850, d. 1890, ½ Tivoli.
 4. Anna Catherine, b. 1852.
 5. Anna Catherine, b. 1852.
24126. Charles Christopher Lathrop, N. Y. City, b. 1842, d. 1926, son of William Gerard Lathrop; m. 1868, Mary Augusta Andrus, 925 Broad St., Newark, N. J., who was b. 1842, dau. of Judge Caleb Andrus and Mary (Fowler) Andrus; m. 1868, Charles Christopher Lathrop at her home, 925 Broad St., Newark, N. J., Friday morning, Nov. 4, 1868. The funeral services were held at her residence on Monday, Nov. 7, 1898, at 10 A.M. Her children:
 1. Charles Hubbard Lathrop, b. 1870, d. 1966.
 2. William Gould, b. 1873, d. 1956.
 3. Emma Gobbi, b. 1876.

Mrs. Charles Hubbard Lathrop, official historian of the New-York Chapter of the Daughters of the American Revolution, is one of the prominent members to hold office in Newark. She is a member of the Newark Hospital, the Newark Academy, Miss Lathrop is not without experience; in her present home and native city, Newark, she has been a member of the Newark Hospital, the Newark Academy, the Newark Friends Society for nine years, secretary and president of the Women's Auxiliary of the Newark Hospital, a member of the Newark Hospital Board, a member of the Newark Hospital, and manager of several of Newark's charitable institutions, which her husband, Dr. Charles C. Lathrop, has been instrumental in establishing. Dr. Lathrop is the son of Dr. Charles C. Lathrop, a physician of Newark, N. J., who received passage in 1846 for the purchase of Elizabethtown, and who is 80 years



Future Work (in progress)

- Build Interface
 - Adjust Code to Resolve “Gotchas”
 - Seize Opportunities
 - Improve candidate pattern identification
 - Assess and adjust for increased usability

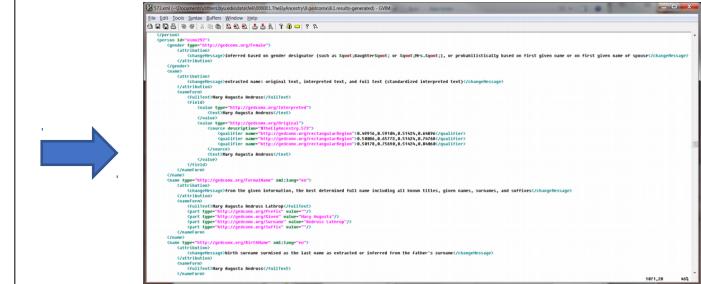


Conclusion

- Rule creation by text snippet examples
 - (Hopefully) objectives will be achieved

THE ELY ANCESTRY.

SEVENTH GENERATION.



- Usable by non-experts (examples only; user-friendly interface)
 - Quick development (click/copy rule development; candidate rule generation)
 - Quality results (good precision and recall)

Conclusion

- Rule creation by text snippet examples
- (Hopefully) objectives will be achieved
 - Usable by non-experts (examples only; user-friendly interface)
 - Quick development (click/copy rule development; candidate rule generation)
 - C...
sults (good precision and recall)



*Thank
You*

