

A Green Form-Based Information Extraction System for Historical Documents

Tae Woo Kim

Motivation

Large Volume of Historical Documents



Automated solutions: our only hope for success

GreenFIE

- “Green”: systems that improve with use
- “FIE”: Form-based Information Extraction
- GreenFIE
 - “watches” users fill in forms
 - learns & executes rules for form filling

Extraction by Form Filling

Upload

Existing

of #

Family

Parent1	Parent2	Child		
Samuel Selden Warner	Azubah Tully	Mary Eliza Warner	✖	Regex
Mary Ely	Gerard Lathrop	Abigail Huntington Lat	✖	Regex
Abigail Huntington Lat	Donald McKenzie	Mary Ely	✖	Regex
		Gerard Lathrop		
Mary Ely	Gerard Lathrop	William Gerard Lathrop	✖	Regex
Nathan Tilestone Jenn	Maria Miller	Charlotte Brackett Jen	✖	Regex
William Gerard Lathrop	Charlotte Brackett Jen	Maria Jennings	✖	Regex
		William Gerard		
		Donald McKenzie		
		Anna Margaretta		
		Anna Catherine		

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).

243311. Abigail 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. 1839.
(The widow is unable to give the names of her husband's parents.)
Their children:

1. Mary Ely, b. 1836, d. 1859.
2. Gerard Lathrop, b. 1838.

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.
2. William Gerard, b. 1840.
3. Donald McKenzie, b. 1840, d. 1843.
4. Anna Margaretta, b. 1843.
5. Anna Catherine, b. 1845.

} Twins.

243314. Charles Christopher Lathrop, N. Y. City, b. 1817, d. 1865, son of Mary Ely and Gerard Lathrop; m. 1856, Mary Augusta Andruss, 992 Broad St., Newark, N. J., who was b. 1825, dau. of Judge Caleb Halstead Andruss and Emma Sutherland Goble. Mrs. Lathrop died at her home, 992 Broad St., Newark, N. J., Friday morning, Nov. 4, 1898. The funeral services were held at her residence on Monday, Nov. 7, 1898, at half-past two o'clock P. M. Their children:

1. Charles Halstead, b. 1857, d. 1861.
2. William Gerard, b. 1858, d. 1861.
3. Theodore Andruss, b. 1860.
4. Emma Goble, b. 1862.

Miss Emma Goble Lathrop, official historian of the New York Chapter of the Daughters of the American Revolution, is one of the youngest 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 positions of secretary and treasurer to the Girls' Friendly Society for nine years, secretary and president of the Woman's Auxiliary of Trinity Church Parish. treasurer of the St. Catherine's Guild of St. Barnabas

“Green” Extraction by Form Filling

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Abigail Huntington Lat	Donald McKenzie	Mary Ely	✖	Regex
		Gerard Lathrop		
Mary Ely	Gerard Lathrop	William Gerard Lathrop	✖	Regex
Nathan Tilestone Jenn	Maria Miller	Charlotte Brackett Jen	✖	Regex
William Gerard Lathrop	Charlotte Brackett Jen	Maria Jennings	✖	Regex
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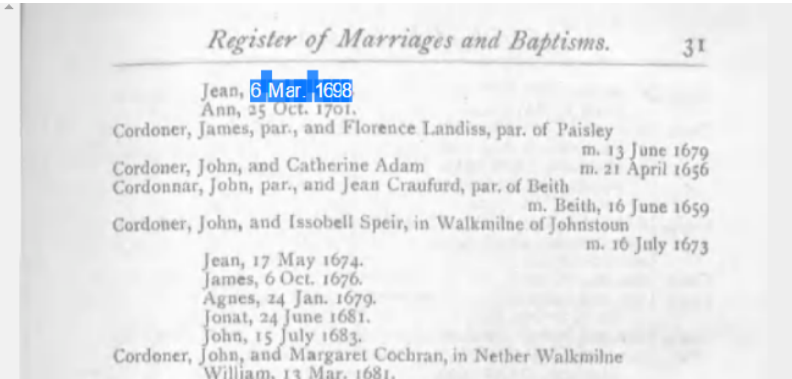
DEMO

DEMO

Person

Name	GenderDesignator	BirthDate	BirthPlace	ChristeningDate	ChristeningPlace
Jean					

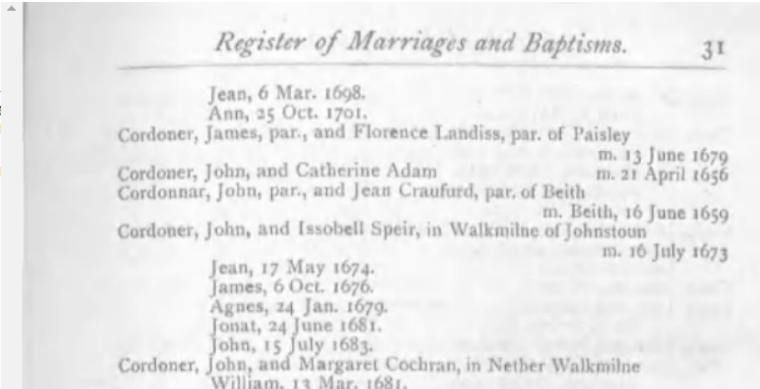
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Person

Name	GenderDesignator	BirthDate	BirthPlace	ChristeningDate	ChristeningPlace
Jean				6 Mar. 1698	

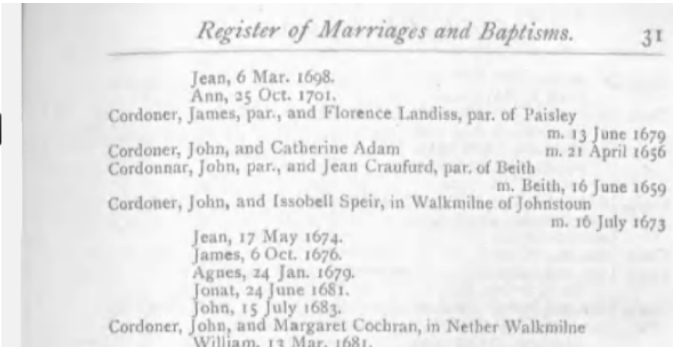
Display Mode: Grid Switch Add Record



Person

ChristeningDate	ChristeningPlace	DeathDate	DeathPlace	BurialDate	BurialPlace
6 Mar. 1698					

Regex



DEMO

Person

Name	GenderDesignator	BirthDate	BirthPlace	ChristeningDate	ChristeningPlace
Jean				6 Mar. 1698	
Ann				25 Oct. 1701	
Jean				17 May 1674	
James				6 Oct. 1676	
Agnes				24 Jan. 1679	
Jonat				24 June 1681	
John				15 July 1683	
William				13 Mar. 1681	
Jonet				3 Dec. 1682	
Thomas				7 Aug. 1688	
Margaret				16 Dec. 1692	
Jean				16 Feb. 1696	
William				1 Aug. 1651	
William				2 Jan. 1653	
Janet				26 Feb. 1654	
John				10 Nov. 1654	
Margaret				27 July 1655	
Jean				25 Sept. 1657	
Margaret				24 June 1660	
Jane				23 April 1658	
James				29 May 1659	

Register of Marriages and Baptisms.

31

Jean, 6 Mar. 1698.
Ann, 25 Oct. 1701.
Cordonar, James, par., and Florence Landiss, par. of Paisley
m. 13 June 1679
Cordonar, John, and Catherine Adam
m. 21 April 1656
Cordonnar, John, par., and Jean Craufurd, par. of Beith
m. Beith, 16 June 1659
Cordonar, John, and Issobell Speir, in Walkmilne of Johnstoun
m. 16 July 1673
Jean, 17 May 1674.
James, 6 Oct. 1676.
Agnes, 24 Jan. 1679.
Jonat, 24 June 1681.
John, 15 July 1683.
Cordonar, John, and Margaret Cochran, in Nether Walkmilne
William, 13 Mar. 1681.
Cordonar, John, and Jonet Cochran, in Walkinshaw, 1688 in
Walkmilne of Johnstoun
m. 22 April 1680
Jonet, 3 Dec. 1682.
Thomas, 7 Aug. 1688.
Margaret, 16 Dec. 1692.
Jean, 16 Feb. 1696.
Cordonar, William, and Jean Cochran
m. 7 Feb. 1651
Cordonar, William
William, 1 Aug. 1651.
William, 2 Jan. 1653.
Janet, 26 Feb. 1654.
Cordonar, William, in Achindinane
John, 10 Nov. 1654.
Cordonar, William, in Over Wakmilne of Johnstoun
Margaret, 27 July 1655.
Jean, 25 Sept. 1657.
Margaret, 24 June 1660.
Cordonar, William, in Achinames.
lane. 21 April 1658.

DEMO

William				2 Jan. 1653	
Janet				26 Feb. 1654	
John				10 Nov. 1654	
Margaret				27 July 1655	
Jean				25 Sept. 1657	
Margaret				24 June 1660	
Jane				23 April 1658	
James				29 May 1659	
Thomas				25 Sept. 1657	
Jean				2 Oct. 1674	
Margaret				9 Dec. 1688	
Agnes				15 Feb. 1691	
Jean				10 Feb. 1693	
Eliza				28 July 1695	
Jean				31 July 1698	
Jonet				28 July 1682	
John				6 Nov. 1769	
James				31 May 1695	
Margaret				19 Sept. 1697	

Display Mode: **Grid**

William, 2 Jan. 1653.
 Janet, 26 Feb. 1654.
 Cordonar, William, in Achindinane
 John, 10 Nov. 1654.
 Cordonar, William, in Over Wakmilne of Johnstoun
 Margaret, 27 July 1655.
 Jean, 25 Sept. 1657.
 Margaret, 24 June 1660.
 Cordonner, William, in Achinames.
 Jane, 23 April 1658.
 James, 29 May 1659.
 Cordownar, William, in Nether Walkmiyne
 Thomas, 25 Sept. 1657.
 Cordonar, William, and Issobell Young, in Auchnames
 Jean, 2 Oct. 1674.
 Cordonar, William, at the Wakmilns of Johnstoun
 Margaret, 9 Dec. 1688.
 Cordonar, William, and Eliza Orr, in Netherwalkmilne of Johnstoun
 Agnes, 15 Feb. 1691.
 Jean, 10 Feb. 1693.
 Eliza, 28 July 1695.
 Jean, 31 July 1698.
 Corss, John, and Jean Patison
 Jonet, 28 July 1682.
 Couper, James, and Issobell Load m. 30 Nov. 1682
 Couper, James, par. of Erskine, and Mary Black, par. 30 Mar. 1744
 Coupar, William, in Kilbarchan, and Janet Caldwell p. 29 Dec. 1768
 John, 6 Nov. 1769.
 Cowan, Daniel, in town par. of Paisley, and Margaret Dougal
 p. 15 Jan. 1763
 Craig, James, par. of Kilbryde, and Jonet Cordonar, par.
 m. 28 June 1658
 Craig, James, Moreland in Forehouse, and Jonet Reid
 m. Lochwinnoch, 18 Jan. 1693
 James, 31 May 1695.
 Margaret, 19 Sept. 1697.

DEMO

Person						
Name	Gender	Designator	BirthDate	BirthPlace	ChristeningDate	ChristeningPlace
John					30 May 1743	
Elizabeth					14 Aug. 1748	
Margaret					3 Feb. 1751	
John					25 Jan. 1756	
James					8 April 1757	
Mary					20 Oct. 1673	
Elizabeth					12 Oct. 1690	
Samuel					14 June 1691	
Robert					6 Dec. 1694	
Mary					4 Dec. 1698	
Katherine					18 Jan. 1741	
William					30 Sept. 1655	
Jean					25 July 1658	
Marion					14 May 1676	
William					5 Feb. 1682	
Elizabeth					2 Sept. 1692	
Janet					28 April 1695	
Jean					28 Dec. 1690	
William					4 Mar. 1692	
James					28 Oct. 1694	
Mary					18 April 1697	

32 <i>Parish of Kilbarchan.</i>	
Craig, James, and Mary Barr John, 30 May 1743.	
Craig, James, and Elizabeth Story, 1751 in Law Elizabeth, 14 Aug. 1748. Margaret, 3 Feb. 1751. Robert, born 29 July 1753. John, 25 Jan. 1756	
Craig, James, and Mary M'Dowall, in Monkland Janet, born 12 July 1751. James, 8 April 1757.	p. 8 Dec. 1749
Craig, John, par. of Beith, and Marione Speir Craig, John, and Janet Reid, in Forehouse Mary, 20 Oct. 1673.	m. 18 Dec. 1672
Craig, John, and Isobell Merchant Craig, John, and Elizabeth Kirk, who came from Ireland Elizabeth, 12 Oct. 1690.	m. 15 June 1682
Craig, John, and Marion Clark, in Sweinlees, par. of Paisley Samuel, 14 June 1691.	
Craig, John, par. of Neilstoun, in Cartside, and Margaret King Robert, 6 Dec. 1694. Mary, 4 Dec. 1698.	m. 8 Feb. 1694
Craig, John, and Margaret Robison Katherine, 18 Jan. 1741.	
Craig, John, par., and Elizabeth Storie, in Abbey par. of Paisley Agnes, born 8 July 1759.	p. 30 May 1747
Craig, Thomas, in Kilbarchan, and Elizabeth M'Caslane Thomas, born 8 Jan. 1764.	p. 29 May 1762
Craig, William, and Agnes Duff Craig, William, in Kirkcounie William, 30 Sept. 1655.	m. 25 May 1654

DEMO

Mary				4 Dec. 1698	
Katherine				18 Jan. 1741	
William				30 Sept. 1655	
Jean				25 July 1658	
Marion				14 May 1676	
William				5 Feb. 1682	
Elizabeth				2 Sept. 1692	
Janet				28 April 1695	
Jean				28 Dec. 1690	
William				4 Mar. 1692	
James				28 Oct. 1694	
Mary				18 April 1697	
William				5 Jan. 1701	
Marion				18 Feb. 1653	
Daniel				9 Feb. 1655	
Robert					

Display Mode: **Grid**

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Craig, James, and Mary M'Dowall, in Monkland	p. 8 Dec. 1749
Janet, born 12 July 1751. James, 8 April 1757.	
Craig, John, par. of Beith, and Marione Speir	m. 18 Dec. 1672
Craig, John, and Janet Reid, in Forehouse Mary, 20 Oct. 1673.	
Craig, John, and Isobell Merchant	m. 15 June 1682
Craig, John, and Elizabeth Kirk, who came from Ireland Elizabeth, 12 Oct. 1690.	
Craig, John, and Marion Clark, in Sweinlees, par. of Paisley Samuel, 14 June 1691.	
Craig, John, par. of Neilstoun, in Cartside, and Margaret King	m. 8 Feb. 1694
Robert, 6 Dec. 1694. Mary, 4 Dec. 1698.	
Craig, John, and Margaret Robison Katherine, 18 Jan. 1741.	
Craig, John, par., and Elizabeth Storie, in Abbey par. of Paisley	
	p. 30 May 1747
Craig, Thomas, in Kilbarchan, and Elizabeth M'Caslane Agnes, born 8 July 1759.	
Craig, Thomas, in Kilbarchan, and Janet Crawford	p. 29 May 1762

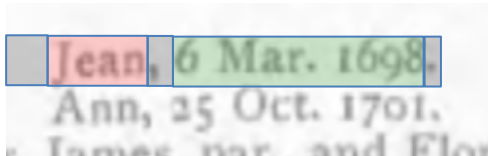
DEMO

Person					
Name	GenderDesignator	BirthDate	BirthPlace	ChristeningDate	Christe
John				30 May 1743	
Elizabeth				14 Aug. 1748	
Margaret				3 Feb. 1751	
Robert		29 July 1753			
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Janet		12 July 1751			
James				8 April 1757	
Mary				20 Oct. 1673	
Elizabeth				12 Oct. 1690	
Samuel				14 June 1691	
Robert				6 Dec. 1694	
Mary				4 Dec. 1698	
Katherine				18 Jan. 1741	
Agnes		8 July 1759			
Thomas		8 Jan. 1764			
William				30 Sept. 1655	
Jean				25 July 1658	

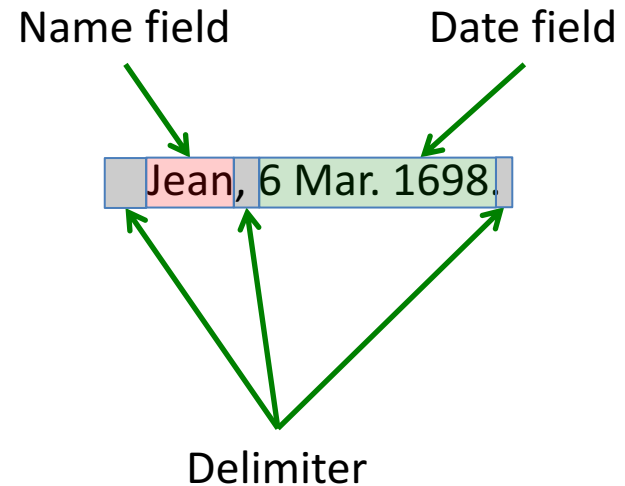
Craig, James, and Mary Barr
 John, 30 May 1743.
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 Janet, born 12 July 1751.
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 Craig, John, par. of Beith, and Marione Speir m. 18 Dec. 1672
 Craig, John, and Janet Reid, in Forehouse
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 Craig, John, and Marion Clark, in Sweinlees, par. of Paisley
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 Craig, John, par. of Neilstoun, in Cartside, and Margaret King
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 p. 30 May 1747
 Craig, Thomas, in Kilbarchan, and Elizabeth M'Caslane
 Agnes, born 8 July 1759.
 Craig, Thomas, in Kilbarchan, and Janet Crawford p. 29 May 1762
 Thomas, born 8 Jan. 1764.
 Craig, William, and Agnes Duff m. 25 May 1654
 Craig, William, in Kirktonne
 William, 30 Sept. 1655.
 Jean, 25 July 1658.
 Craig, William, and Marion Broune, in Locherside
 Marion, 14 May 1676.

GreenFIE Rule Creation

image text



underlying OCR text

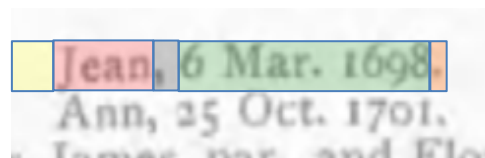


Rule Creation Basics

Name	GenderDesignator	BirthDate	BirthPlace	ChristeningDate
Jean				6 Mar. 1698

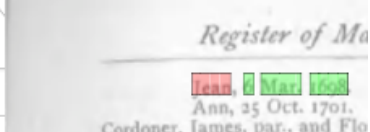


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Rule Creation Basics

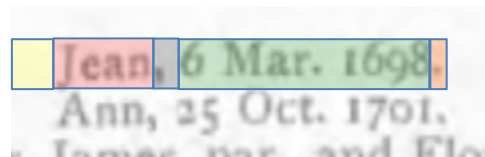
Name	GenderDesignator	BirthDate	BirthPlace	ChristeningDate
Jean				6 Mar. 1698




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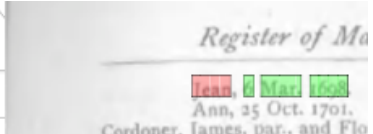


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Rule Creation Basics

Name	GenderDesignator	BirthDate	BirthPlace	ChristeningDate
Jean				6 Mar. 1698



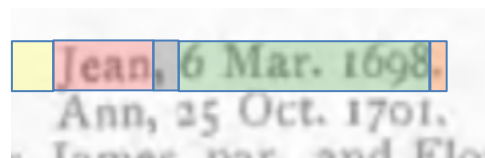

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\n([A-Z]{1}[a-z]{1,5}),\s(\d{0,2}\s[A-Z]{1}[a-z]{1,3}\.\s\d{1,5})\.
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Rule Creation for Simple Records

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\n\d{1,2}[.,]\s([A-Z][a-z]+(?:\s[A-Z](?:[c][A-Z][a-z]+|[a-z]+))?(?:\s[A-Z][a-z]+)?)[.,]\sb[.,]\s
((?:\d{1,2}|I|[[ ]\d{1})\s[JFMASOND][a-z]{2,4}[.,]?
\s(?:\d{4}|i\d{3})|\d{4})[.,]\sd[.,]\s((?:\d{1,2}|I|[[ ]\d{1})\s[JFMASOND][a-z]{2,4}[.,]?
\s(?:\d{4}|i\d{3})|\d{4})[.,]
```

(The widow is unable to give the
 Their children:

1. Mary Ely, b. 1836, d. 1859.
2. Gerard Lathrop, b. 1838.

243312. William Gerard Lathrop, :

Rule Creation for Complex Records

```
\n\d{5,7}[.,]\s([A-Z][a-z]+(?:\s[A-Z](?:[c][A-Z][a-z]+| [a-z]+))?(?:\s[A-Z][a-z]+)?)[.,]\s[\s\S]{45,99}?\d{4}[.,]\s([A-Z][a-z]+(?:\s[A-Z](?:[c][A-Z][a-z]+| [a-z]+))?(?:\s[A-Z][a-z]+)?)[.,]\s[\s\S]{62,136}?\n1[.,]\s([A-Z][a-z]+(?:\s[A-Z](?:[c][A-Z][a-z]+| [a-z]+))?(?:\s[A-Z][a-z]+)?)[.,]
```

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Rule Creation for Complex Records

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\n\d{5,7}[.,]\s([A-Z][a-z]+(?:\s[A-Z](?:[c][A-Z][a-z]+[a-z]+))?(?:\s[A-Z][a-z]+)?)[.,]\s[\s\S]{45,99}?\d{4}[.,]\s([A-Z][a-z]+(?:\s[A-Z](?:[c][A-Z][a-z]+[a-z]+))?(?:\s[A-Z][a-z]+)?)[.,]\s[\s\S]{62,136}?\n1[.,]\s([A-Z][a-z]+(?:\s[A-Z](?:[c][A-Z][a-z]+[a-z]+))?(?:\s[A-Z][a-z]+)?)[.,]
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Rule Creation for Complex Records

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```

2. Gerard Lathrop, b. 1838.

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.

2. William Gerard, b. 1840.

3. Donald McKenzie, b. 1840, d. 1843. } Twins.

4. Anna Margaretta, b. 1843.

5. Anna Catherine, b. 1845.

Field Experiments

- Experimental setup
- Development test set
- Blind test set

THE ELY ANCESTRY. SEVENTH GENERATION.

419

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).

243311. Abigail 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. 1839.

(The widow is unable to give the names of her husband's parents.)
Their children:

1. Mary Ely, b. 1836, d. 1839.
2. Gerard Lathrop, b. 1838.

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.
2. William Gerard, b. 1840.
3. Donald McKenzie, b. 1840, d. 1843. } Twiss.
4. Anna Margaretta, b. 1843.
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. 1837, d. 1861.
2. William Gerard, b. 1838, d. 1861.
3. Theodore Andrus, b. 1860.
4. Emma Goble, b. 1863.

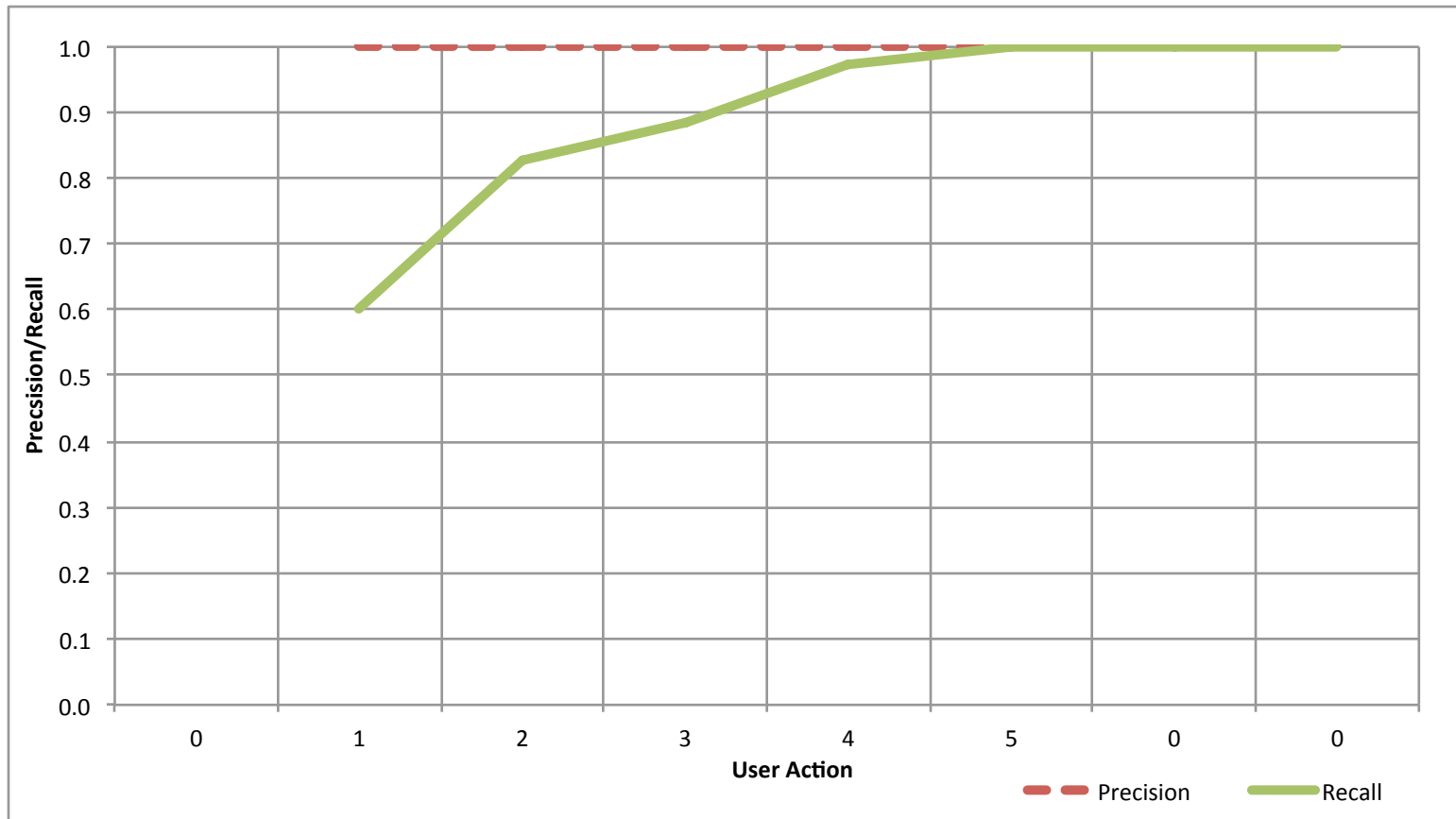
Miss Emma Goble Lathrop, official historian of the New York Chapter of the Daughters of the American Revolution, is one of the youngest members to hold office, but one whose intelligence and capability qualify her for such distinction. Miss Lathrop is not without experience; in her present home and native city, Newark, N. J., she has filled the positions of secretary and treasurer to the Girl's Friendly Society for nine years, secretary and president of the Woman'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 grandparents were instrumental in founding. Miss Lathrop traces her lineage back through many generations of famous progenitors on both sides. Her maternal 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

Register of Marriages and Baptisms.

29

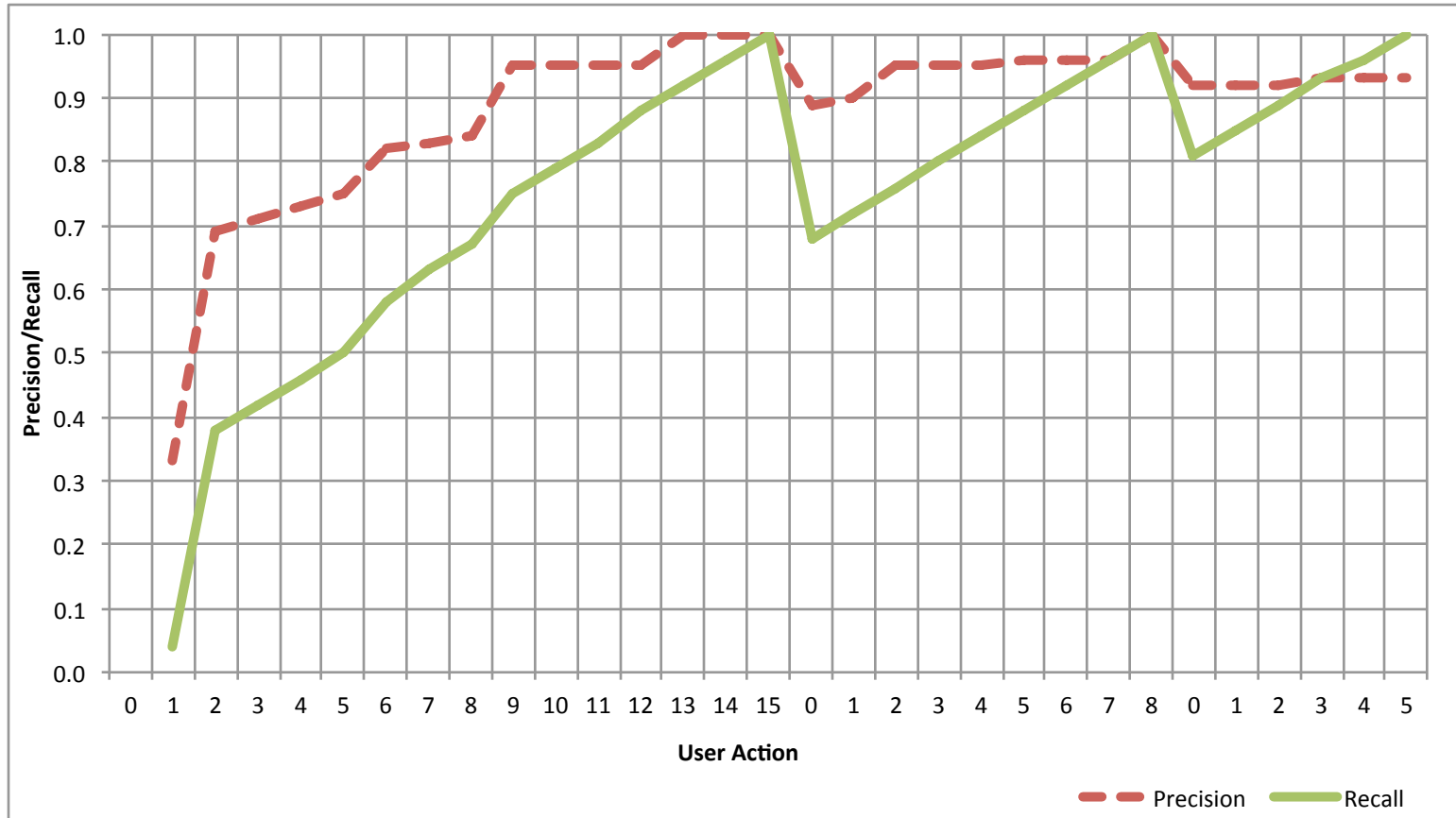
Cochran, Ninian, in Paisley
Agnes, 23 Dec. 1653.
Cochran, Patrick, in Hallhill, and Janet Cochran
Robert, 20 April 1675.
Cochran, Robert, 1655 in Rayways
Easter, 28 Jan. 1653.
Janet, 9 Mar. 1653.
Helen, 27 Aug. 1658.
Elizabeth, 23 April 1658.
Griestell, 20 July 1660.
Cochran, Robert, par., and Lillian Fleming, par. in Kilhillane
m. Kilhillane 6 June 1654.
Cochran, Robert, and Bessie Maxwell
Robert, 29 Nov. 1672.
Cochran, Robert, and Janet Allan, in Lockwinnoch
William, 18 Oct. 1674.
Cochran, Robert, and Janet Connell, in Murelyk
Janet, 24 June 1677.
Cochran, Robert, and Isobell Patterson, in Wood of Cochran
Margaret, 29 Nov. 1678.
Cochran, Robert, and Margaret Lang
m. 21 Jan. 1690.
Cochran, Robert, in Kilbarthra, and Margaret Craig, in
Abbey par. of Paisley
p. 17 May 1755.
Margaret, born 15 July 1757.
John, born 21 Jan. 1759.
Hugh, born 24 Mar. 1764.
Cochran, Thomas, and Maria Symson, 1677 in Drygate m. 29 May 1669
Robert, 2 Mar. 1673.
Thomas, 16 Dec. 1677 (father dead).
Cochran, Thomas, in Auchensale, and Jane McKennie
Thomas, 1 June 1700.
Cochran, William, in Hallhill of Kilbarthra, and Heilene
Wilson, par. of Paisley
m. 26 Aug. 1690.
John, 1 Sept. 1694.
Janet, 18 July 1695.
Elizabeth, 15 Nov. 1697.
Cochran, William, and Janet Allen
m. 28 Jan. 1691.
Cochran, William, 1694 in Shillingworth
William, 13 July 1691.
Janet, 24 Dec. 1697.
William, 6 June 1695.
John, 16 Sept. 1660.
Robert, 27 July 1662.
Cochran, William, in Thindpart, 1655 Hill of Thindpart
John, 19 Nov. 1654.
William, 21 April 1655.
Robert, 2 April 1660.
Alexander, 3 June 1661.
Cochran, William, and Janet Houstoun
m. 30 Mar. 1655.
Robert, 2 Dec. 1659.
Cochran, William, and Margaret Thomson, in Lockwinnoch
Marion, 23 Nov. 1673.
Cochran, William, par. of Lockwinnoch, and Janet King m. 13 May 1675
Margaret, 21 Dec. 1677.
Cochran, William, and Gelle Miller, 1676 in Hill of Thindpart
m. 12 May 1673.
William, 27 Mar. 1674.
Isobell, 11 Aug. 1676.
Mary, 13 Dec. 1678.
William, 24 Mar. 1681.

Results



Person Form Results for Kilbarchan Pages 33 – 35

Results



Person Form Results for Ely Pages 575 – 577

Cochran, William, and decd. Janet Barbor, in Sandyflatt, par. of Paisley
Alexander, 2 Mar. 1675.

Cochrane, William, in Sandmure, and Jonet King
—, daughter, 4 Feb. 1677.

Cochran, William, par. of Paisley, and Annas Cuming, in
Sandflat, par. of Paisley m. 5 Oct. 1676
Elizabeth, 6 Dec. 1678.
—, son, 24 April 1681.
James, 18 Mar. 1683.
Elizabeth, 6 Sept. 1689.

Cochran, William, and Janet Cochran m. 8 July 1680

Cochran, William, and Jonet Baxter, in Forty Shillingworth
Jonet, 16 July 1682.

Cochran, William, and Janet Akin, in Barr
Janet, 20 Feb. 1698.
William, 26 June 1702.
William, 2 July 1704.

Cochran, William, in Sandyflat, and Anne Hall
William, 1 Nov. 1700.

Cochran, William, in Sandflat, and Jane Henderson
Anne, 20 Mar. 1710.

Cochran, William, and Margaret Paterson
Alexander, 7 May 1710.

Cochran, William, and Margaret Gibson, 1745 in Barr
Jane, 1 Mar. 1741.
Mary, born 15-15 Sept. 1745.
Elizabeth, born 3 Oct. 1747.
James, born 13-13 May 1750.

Cochran, William, in Shillingworth, and Janet Paterson
Hugh, 30 Oct. 1743.
Martha, born 4 July 1749.

Cochran, William, par. and Mary Swan, par. of Beith p. 28 Mar. 1767
Mary, 21 July 1766 (father dead).

Colquhoun, Alexander, par. of Wester Kilpatrick, and
Sussanna Brisbane m. 1 June 1679

Colquhoun, John, in Blackstoun, and Euphemia Paterson
Anne, 12 Feb. 1702.
Catherine, 24 Jan. 1704.
Alexander, 31 Mar. 1706.
Margaret, 11 Jan. 1708.
William, 25 June 1710.

Colquhoun, Robert, and Frances Honyman p. 27 April 1771

Colvin, John, in Kilbarchan, and Margaret Dickson
James, born 3 May 1769.

Cordoner, Andrew, 1655 in Johnstoun
Jeane, 29 May 1653.
Andro, 22 April 1655.

Cordoner, Andro, and Agnes Barbor
Jean, 19 Jan. 1673.

Cordoner, Andro, and Margaret Arthur
Jonet, 13 Feb. 1674.

Cordoner, Andro, and Agnes Baird, at Walkmiln of Johnstoun
John, 2 June 1678.
Thomas, 23 Jan. 1681.

Cordoner, Andrew, and Elizabeth King, in Netherwalkmilne of Johnstoun,
1696 in Upper Walkmilne
Margaret, 24 Mar. 1689.
Andrew, 4 May 1690.
John, 24 Jan. 1692.
Elizabeth, 8 July 1694.
Andrew, 3 May 1696.

SEVENTH GENERATION.

James Harvey Patterson, who was b. 1817, son of Thomas Patterson and Jane Clark. Their children:

1. Thomas Ely, b. 1843.
2. Mary, b. 1855.
3. Jeannie St. Clair, b. 1861.
4. Harry, b. 1863.

243327. Rev. Ben Ezra Stiles Ely, Ottumwa, Ia., b. 1828, son of Rev. Ezra Stiles Ely and Mary Ann Carswell; m. 1848, Elizabeth Eudora McElroy, West Ely, Mo., who was b. 1829, d. 1871, dau. of Abraham McElroy and Mary Ford Radford; m. 2nd, 1873, Abbie Amelia Moore, Harrison, Ill., who was b. 1852, dau. of Porter Moore and Harriet Leonard. Their children:

1. Elizabeth B., b. 1849.
2. Ben-Ezra Stiles, b. 1856.
3. George Everly Montgomery, b. 1858, d. 1877.
4. Laura Elizabeth, b. 1859.
5. LaRose DeForest, b. 1861.
6. Charles Wadsworth, b. 1863.
7. Mary Anita, b. 1865.
8. Francis Argyle, b. 1876.

243320. Harriet Clarissima Ely, b. 1848, dau. of Ezra Stiles Ely and Caroline Thompson Holmes; m. Beale Steenberger Blackford, Parkersburg, W. Va. Their children:

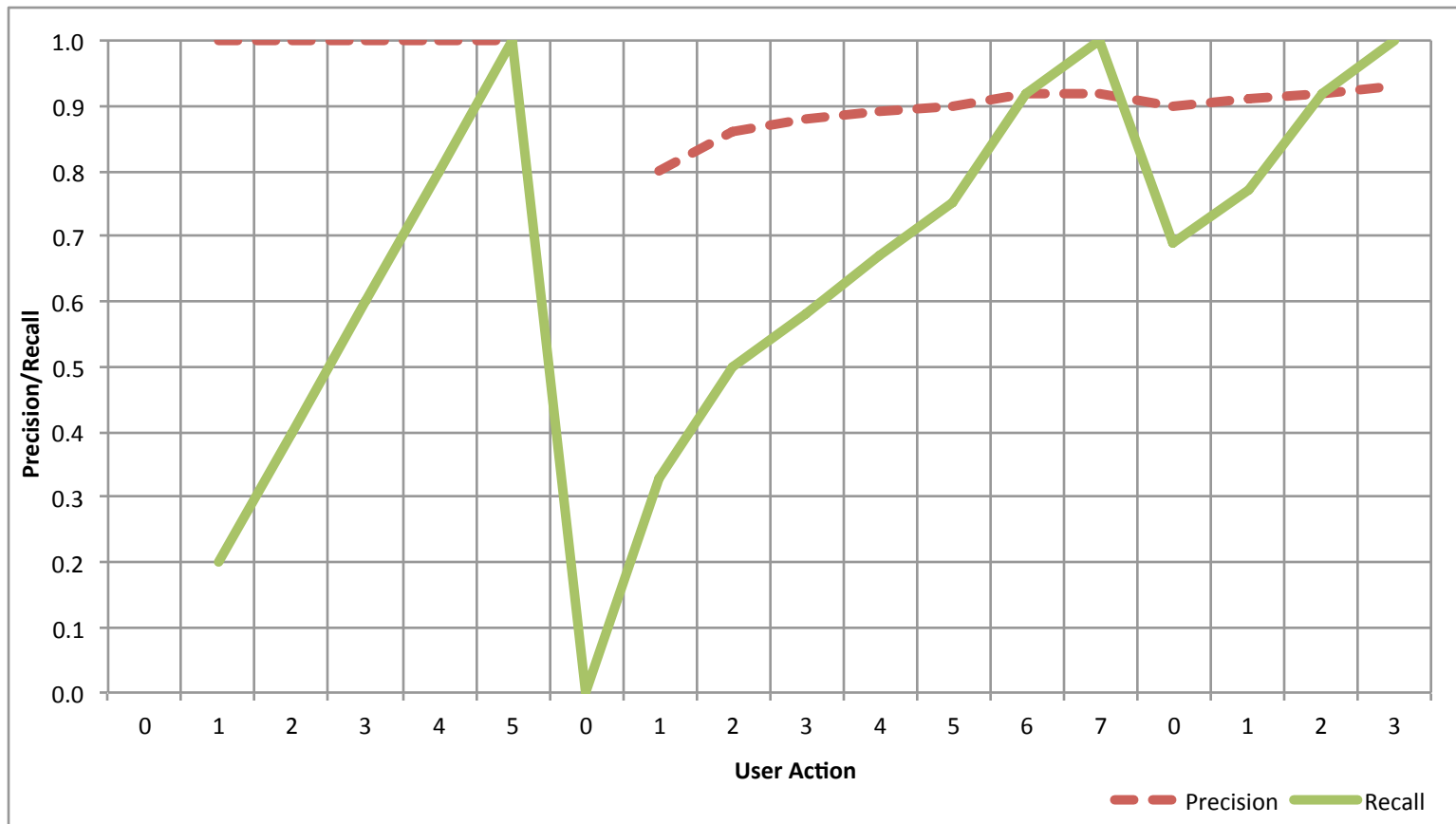
1. Caroline Holmes Ely.

(Mrs. Caroline Blackford, 1014 Broad St., Richmond, Va., or Rev. Robert Dixon, Rector Trinity Church, Parkersburg, Va., may be able to give the date of marriage).

243322. Zebulon DeForest Ely (831 No. 7th St., Philadelphia, Pa.), b. 1852, son of Ezra Stiles Ely and Caroline Thompson Holmes; m. 1874, Clara Vanola Major, who was b. 1856, d. 1876, dau. of William Major and Deborah A. Beatty; m. 2nd, 1878, Mamie Anna Souder, who was b. 1855, dau. of Joseph William Souder and Anna Maria Walker. Their children:

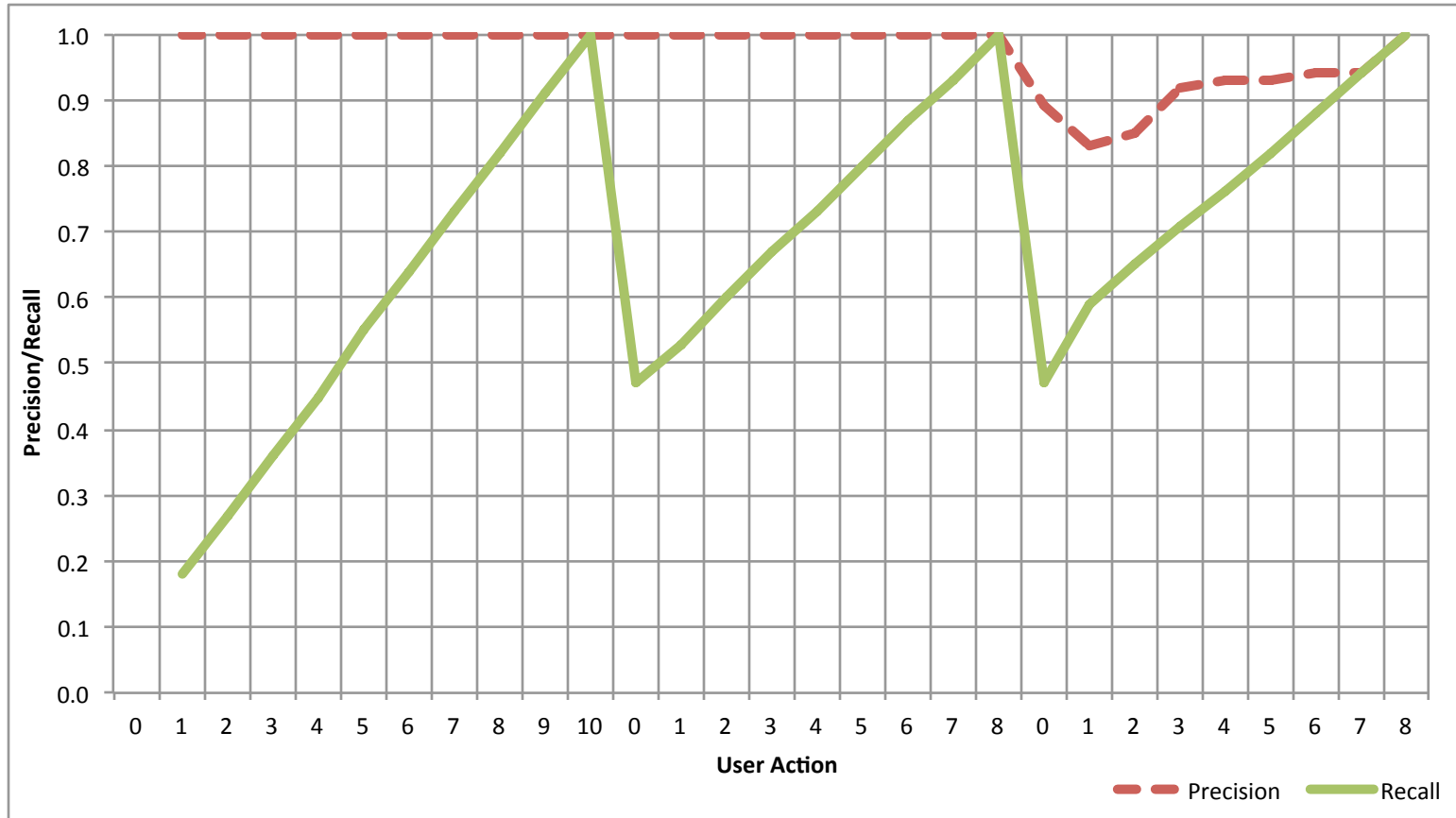
1. William Major, b. 1875, d. 1876.
2. Zebulon DeForest, b. 1879.
3. Edmund Holmes, b. 1880.
4. Edna Holmes, b. 1881.

Results



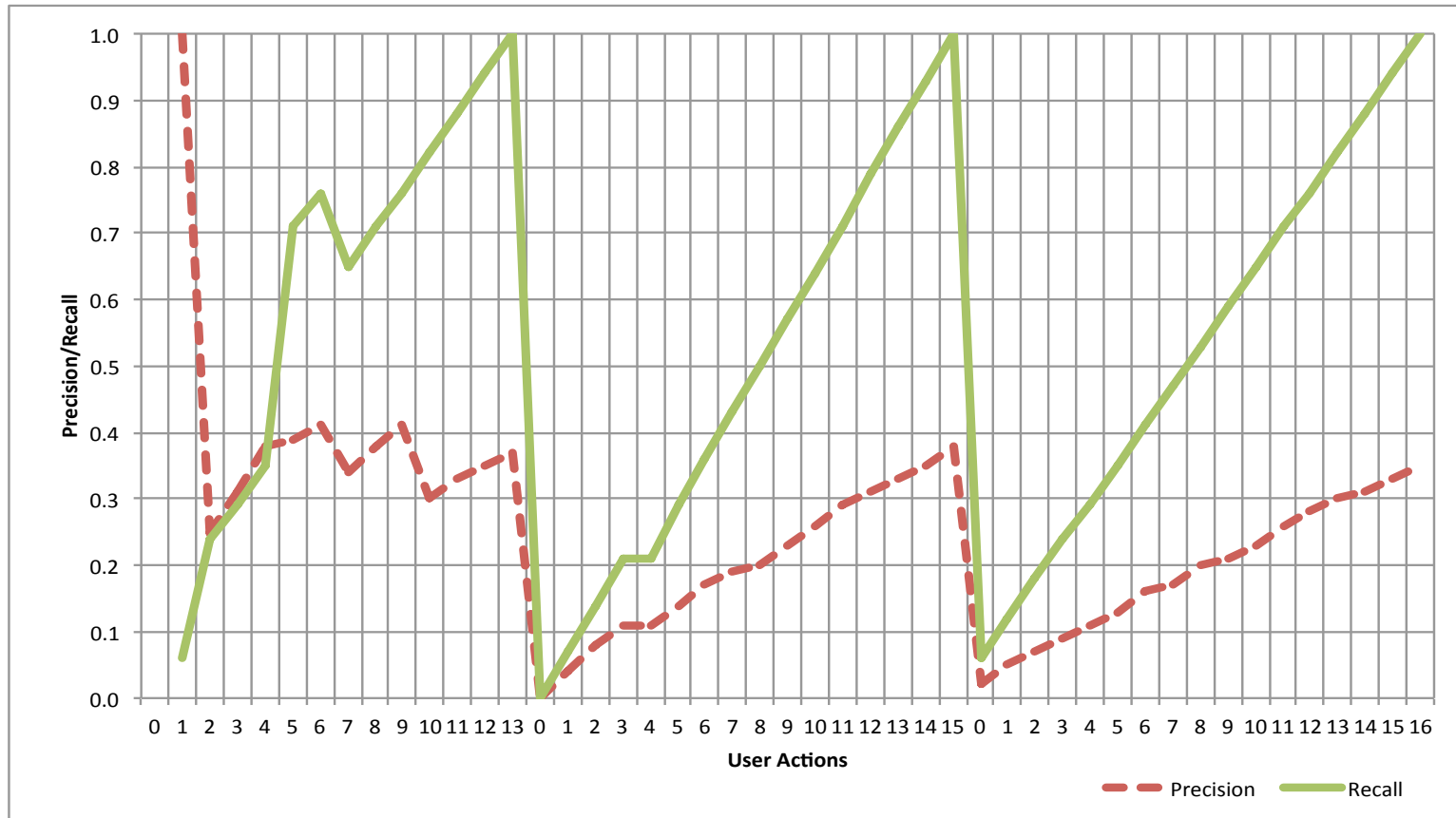
Couple Form Results for Kilbarchan Pages 33 – 35

Results



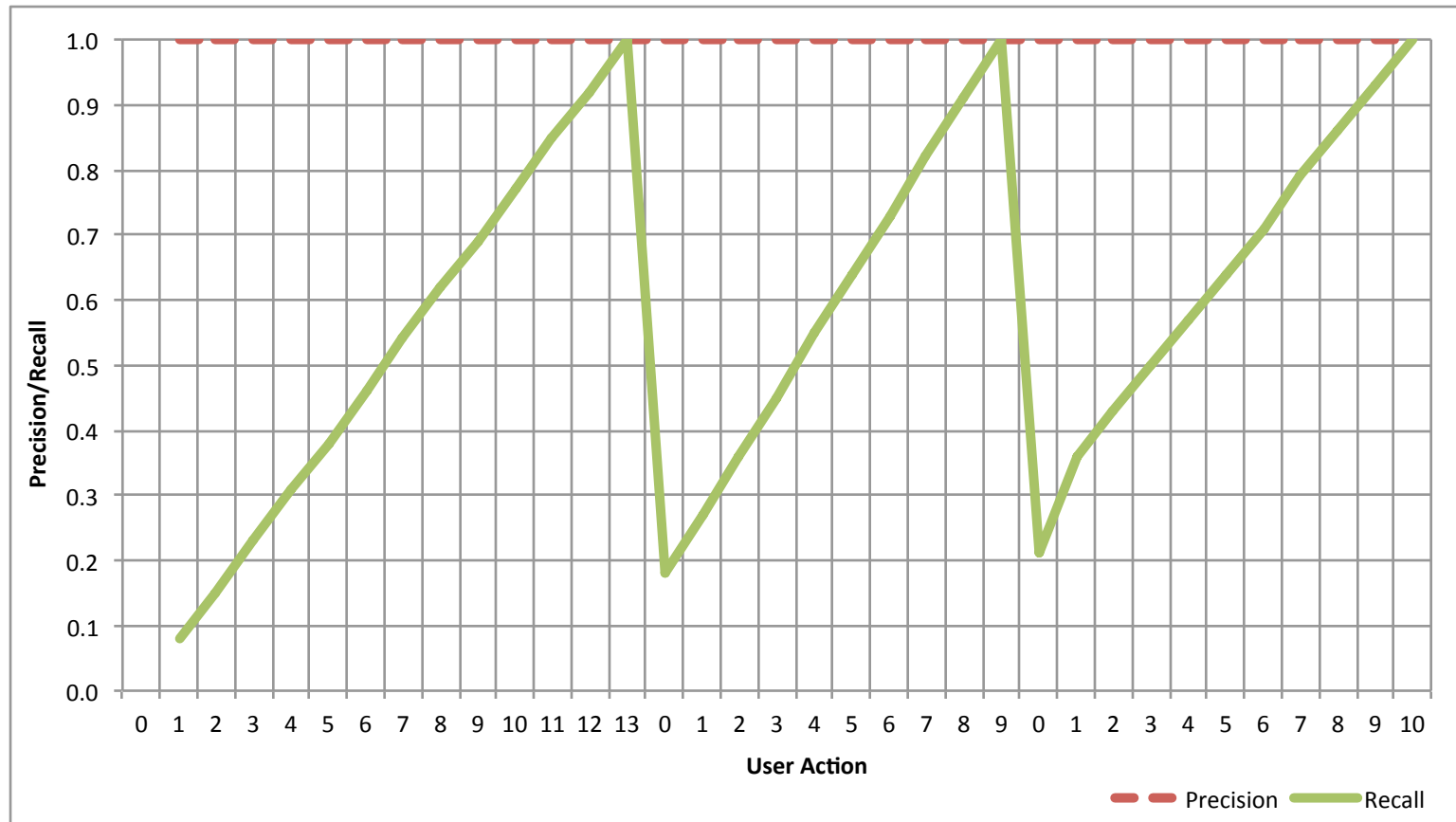
Couple Form Results for Ely Pages 575 – 577

Results



Family Form Results for Kilbarchan Pages 33 – 35

Results



Family Form Results for Ely Pages 575 – 577

Results Summary

	User Action	Correct	Correct / User Action
Ely	86	157	1.83
Person	28	76	2.71
Couple	26	43	1.65
Family	32	38	1.19
Kilbarchan	64	176	2.75
Person	5	98	19.60
Couple	15	30	2.00
Family	44	48	1.09
Overall	150	333	2.22

Kilbarchan Family Form Problems

Parent1	Parent2	Child
Cochran William	Annas Cuming	<div>Elizabeth</div> <div>James</div> <div>Elizabeth</div>

✖ Regex

Cochran, William, and Mary, James Watson, in Sanddynatt, par. of Paisley
Alexander, 2 Mar. 1675.
Cochrane, William, in Sandmure, and Jonet King
daughter, 4 Feb. 1677.
Cochran, William, par. of Paisley, and Anna Cuming, in
Sandflat, par. of Paisley m. 5 Oct. 1676
Elizabeth, 6 Dec. 1678.
son, 24 April 1681.
James, 18 Mar. 1683.
Elizabeth, 6 Sept. 1689.
Cochran, William, and Janet Cochran m. 8 July 1680
Cochran, William, and Jonet Baxter, in Forty Shillingworth
Jonet, 16 July 1682.
Cochran, William, and Janet Akin, in Barr
Janet, 20 Feb. 1698.
William, 26 June 1702.
William, 2 July 1704.
Cochran, William, in Sandyflat, and Anne Hall
William, 1 Nov. 1700.
Cochran, William, in Sandflat, and Jane Henderson
Anne, 20 Mar. 1710.
Cochran, William, and Margaret Paterson
Alexander, 7 May 1710.
Cochran, William, and Margaret Gibson, 1745 in Barr
Jane, 1 Mar. 1741.
Mary, born 15-15 Sept. 1745.
Elizabeth, born 3 Oct. 1747.
James, born 13-13 May 1750.
Cochran, William, in Shillingworth, and Janet Paterson
Hugh, 30 Oct. 1743.
Martha, born 4 July 1749.
Cochran, William, par., and Mary Swan, par. of Beith p. 28 Mar. 1767
Mary, 21 July 1769 (father dead).
Colquhoun, Alexander, par. of Wester Kilpatrick, and
Sussanna Brisbane m. 1 June 1679
Colquhoun, John, in Blackstoun, and Euphemia Paterson
Anne, 12 Feb. 1702.
Catherine, 24 Jan. 1704.
Alexander, 31 Mar. 1706.
Margaret, 11 Jan. 1708.
William, 25 June 1710.
Colquhoun, Robert, and Frances Honyman p. 27 April 1771
Colvin, John, in Kilbarchan, and Margaret Dickson
James, born 2 May 1760.

Kilbarchan Family Form Problems

Parent1	Parent2	Child
Cochran William	Annas Cuming	Elizabeth
		James
		Elizabeth
Cochran, William	Jonet Baxter	Jonet
		Cochran
		Janet
		William
		William
		Cochran
		William
		Cochran
		Anne
		Cochran
		Alexander
		Cochran

Cochran, William, and Janet Cuming, in Sanddynatt, par. of Paisley
Alexander, 2 Mar. 1675.

Cochrane, William, in Sandlmure, and Jonet King
—, daughter, 4 Feb. 1677.

Cochran, William, par. of Paisley, and Annas Cuming, in
Sandflat, par. of Paisley m. 5 Oct. 1676

Elizabeth, 6 Dec. 1678.

—, son, 24 April 1681.

James, 18 Mar. 1683.

Elizabeth, 6 Sept. 1689.

Cochran, William, and Janet Cochran m. 8 July 1689

Cochran, William, and Jonet Baxter, in Forty Shillingworth
Jonet, 16 July 1682.

Cochran, William, and Janet Cochran m. 8 July 1689

Cochran, William, and Jonet Baxter, in Forty Shillingworth
Jonet, 16 July 1682.

Cochran, William, and Janet Akin, in Barr
Janet, 20 Feb. 1698.

William, 26 June 1702.

William, 2 July 1704.

Cochran, William, in Sandflat, and Anne Hall
William, 1 Nov. 1700.

Cochran, William, in Sandflat, and Jane Henderson
Anne, 20 Mar. 1710.

Cochran, William, and Margaret Paterson
Alexander, 7 May 1710.

Cochran, William, and Margaret Gibson, 1745 in Barr
Jane, 1 Mar. 1741.

Mary, born 15-15 Sept. 1745.

Elizabeth, born 3 Oct. 1747.

James, born 13-13 May 1750.

Cochran, William, in Shillingworth, and Janet Paterson
Hugh, 30 Oct. 1743.

Martha, born 4 July 1749.

Cochran, William, par., and Mary Swan, par. of Beith p. 28 Mar. 1767

Mary, 21 July 1769 (father dead).

Colquhoun, Alexander, par. of Wester Kilpatrick, and
Sussanna Brisban m. 1 June 1679

Colquhoun, John, in Blackstoun, and Euphemia Paterson
Anne, 12 Feb. 1702.

Catherine, 24 Jan. 1704.

Alexander, 31 Mar. 1706.

Margaret, 11 Jan. 1708.

William, 25 June 1710.

Colquhoun, Robert, and Frances Honyman p. 27 April 1771

Colvin, John, in Kilbarchan, and Margaret Dickson
James, born 3 May 1769.

Cordonier, Andrew, 1655 in Johnstoun
Jeane, 29 May 1653.

Andrew, 22 April 1655.

Kilbarchan Family Form Problems

Parent1	Parent2	Child
Cochran William	Annas Cuming	<div>Elizabeth</div> <div>James</div> <div>Elizabeth</div>
Cochran, William	Jonet Baxter	<div>Jonet</div> <div>Cochran</div> <div>Janet</div> <div>William</div> <div>William</div> <div>Cochran</div> <div>William</div> <div>Cochran</div> <div>Anne</div> <div>Cochran</div> <div>Alexander</div> <div>Cochran</div>

Cochran, William, and Janet, in Sanddynatt, par. of Paisley
Alexander, 2 Mar. 1675.

Cochrane, William, in Sandlmure, and Jonet King
—, daughter, 4 Feb. 1677.

Cochran, William, par. of Paisley, and Annas Cuming, in
Sandflat, par. of Paisley m. 5 Oct. 1676

Elizabeth, 6 Dec. 1678.

—, son, 24 April 1681.

James, 18 Mar. 1683.

Elizabeth, 6 Sept. 1689.

Cochran, William, and Janet Cochran m. 8 July 1689

Cochran, William, and Jonet Baxter, in Forty Shillingworth
Jonet, 16 July 1682.

Cochran, William, and Janet Cochran m. 8 July 1689

Cochran, William, and Jonet Baxter, in Forty Shillingworth
Jonet, 16 July 1682.

Cochran, William, and Janet Cochran m. g July 1680

Cochran, William, and Jonet Baxter, in Forty Shillingworth
Jonet, 16 July 1682.

Cochran, William, and Janet Akin, in Barr
Janet, 20 Feb. 1698.

William, 26 June 1702.

William, 2 July 1704.

Cochran, William, in Sandyflat, and Anne Hall
William, 1 Nov. 1700.

Cochran, William, in Sandflatt, and Jane Henderson
Anne, 20 Mar. 1710.

Cochran, William, and Margaret Paterson
Alexander, 7 May 1710.

Cochran, William, and Margaret Gibson, 1745 in Barr
Jane, 1 Mar. 1741.

Martha, born 4 July 1749.

Cochran, William, par. of Beith p. 28 Mar. 1767

Mary, 21 July 1769 (father dead).

Colquhoun, Alexander, par. of Wester Kilpatrick, and
Sussanna Brisban m. 1 June 1679

Colquhoun, John, in Blackstoun, and Euphemia Paterson
Anne, 12 Feb. 1702.

Catherine, 24 Jan. 1704.

Alexander, 31 Mar. 1706.

Margaret, 11 Jan. 1708.

William, 25 June 1710.

Colquhoun, Robert, and Frances Honyman p. 27 April 1771

Colvin, John, in Kilbarchan, and Margaret Dickson
James, born 3 May 1769.

Cordonier, Andrew, 1655 in Johnstoun

Jeane, 29 May 1653.

Andrew, 22 April 1655.

Kilbarchan Family Form Problems

Parent1	Parent2	Child
Cochran William	Annas Cuming	Elizabeth
		James
		Elizabeth
Cochran, William	Jonet Baxter	Jonet
		Cochran
		Janet
		William
		William
		Cochran
		William
		Cochran
		Anne
		Cochran
		Alexander
		Cochran

Cochran, William, and Janet, in Sanddynatt, par. of Paisley
Alexander, 2 Mar. 1675.
Cochrane, William, in Sandlmure, and Jonet King
—, daughter, 4 Feb. 1677.
Cochran, William, par. of Paisley, and Annas Cuming, in
Sandflat, par. of Paisley m. 5 Oct. 1676
Elizabeth, 6 Dec. 1678.
—, son, 24 April 1681.
James, 18 Mar. 1683.
Elizabeth, 6 Sept. 1689.
Cochran, William, and Janet Cochran m. 8 July 1689
Cochran, William, and Jonet Baxter, in Forty Shillingworth
Jonet. 16 July 1682.
Cochran, William, and Janet Cochran m. 8 July 1689
Cochran, William, and Jonet Baxter, in Forty Shillingworth
Jonet. 16 July 1689.
Cochran, William, and Janet Cochran m. g July 1680
Cochran, William, and Jonet Baxter, in Forty Shillingworth
Jonet. 16 July 1682.
Cochran, William, and Janet Akin, in Barr
Janet. 20 Feb. 1698.
Cochran, William, in
William, 26 June 1702.
Cochran, William, in
William, 2 July 1704.
Cochran, William, in Sandyflat, and Anne Hall
William, 1 Nov. 1700.
Cochran, William, in Sandflatt, and Jane Henderson
Anne. 20 Mar. 1710.
Cochran, William, and Margaret Paterson
Alexander, 7 May 1710.
Cochran, William, and Margaret Gibson, 1745 in Barr
Jane, 1 Mar. 1741.
Martha, born 4 July 1749.
Cochran, William, par. and Mary Swan, par. of Beith p. 28 Mar. 1767
Mary, 21 July 1769 (father dead).
Colquhoun, Alexander, par. of Wester Kilpatrick, and
Sussanna Brisban m. 1 June 1679
Colquhoun, John, in Blackstoun, and Euphemia Paterson
Anne, 12 Feb. 1702.
Catherine, 24 Jan. 1704.
Alexander, 31 Mar. 1706.
Margaret, 11 Jan. 1708.
William, 25 June 1710.
Colquhoun, Robert, and Frances Honyman p. 27 April 1771
Colvin, John, in Kilbarchan, and Margaret Dickson
James, born 3 May 1769.
Cordonier, Andrew, 1655 in Johnstoun
Jeane, 29 May 1653.
Andrew, 22 April 1655.

Family Form Resolutions

- Enumerators (e.g. 1. 2., ..., n in Ely)
- Visual indentation

Expression [share](#) [save](#) [flags](#)

`:[s]{0,30}?[n]([A-Z](['A-Za-z]{1,15}),\s[\s\S]{0,36})?/g` 2 matches

Text

, son, 24 April 1661.
James, 18 Mar. 1683.
Elizabeth, 6 Sept. 1689.
Cochran, William, and Janet Cochran m. g July 1680
Cochran, William, and Janet Baxter, in Forty Shillingworth
Janet, 16 July 1682.
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Elizabeth, born 3 Oct. 1747.
James, born 13-13 May 1750.
Cochran, William, in Shillingworth, and Janet Paterson
Hugh, 30 Oct. 1743.
Martha, born 4 July 1749.
Cochran, William, par., and Mary Swan, par. of Beith p. 28
Mar. 1767
Mary, 21 July 1769 (father dead).
Colquhoun, Alexander, par. of Wester Kilpatrick, and

Expression [share](#) [save](#) [flags](#)

`]{0,30}?[n]([A-Z](['A-Za-z]{1,15}),\s[\s\S]{0,36})?/g` 1 match

Text

, son, 24 April 1661.
James, 18 Mar. 1683.
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Martha, born 4 July 1749.
Cochran, William, par., and Mary Swan, par. of Beith p. 28
Mar. 1767
Mary, 21 July 1769 (father dead).
Colquhoun, Alexander, par. of Wester Kilpatrick, and

Lessons Learned

- Value-type generalizations
- Historical documents
 - OCR errors
 - White-space layout
 - End-of-line hyphens
- Commentary
 - Pattern exceptions
 - Skip lengths

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),

243311. Abigail 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. 1839.

(The widow is unable to give the names of her husband's parents.)

Their children :

1. Mary Ely, b. 1836, d. 1859.

2. Gerard Lathrop, b. 1838.

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.

2. William Gerard, b. 1840.) .

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 - Learns from examples
 - Improves itself with use
- GreenFIE diminishes labor
 - 333 records extracted with 150 user actions
 - 19.6 records per user action (Kilbarchan, Person)
- Future work: tech-transfer to FamilySearch