

# Finding Genealogy Facts with Linguistic Analysis

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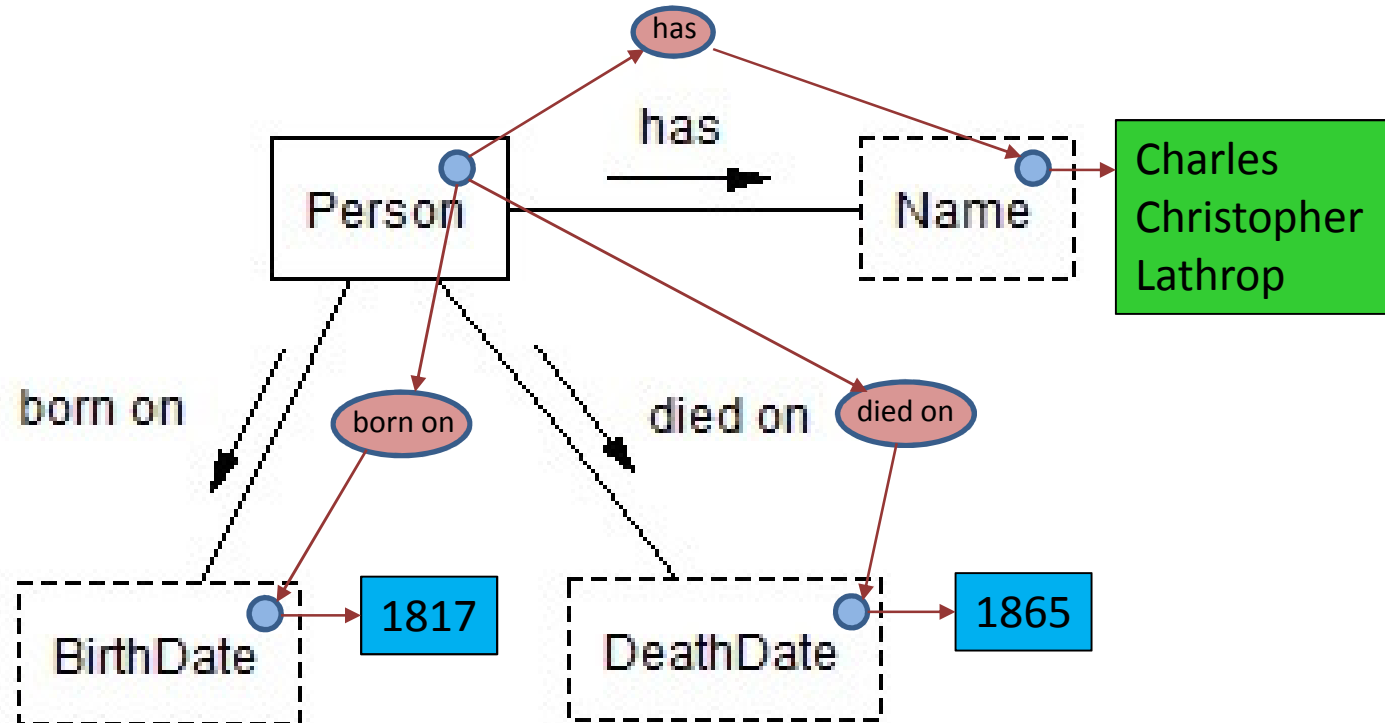
# Semi-Structured Text

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.

# A Simple Ontology



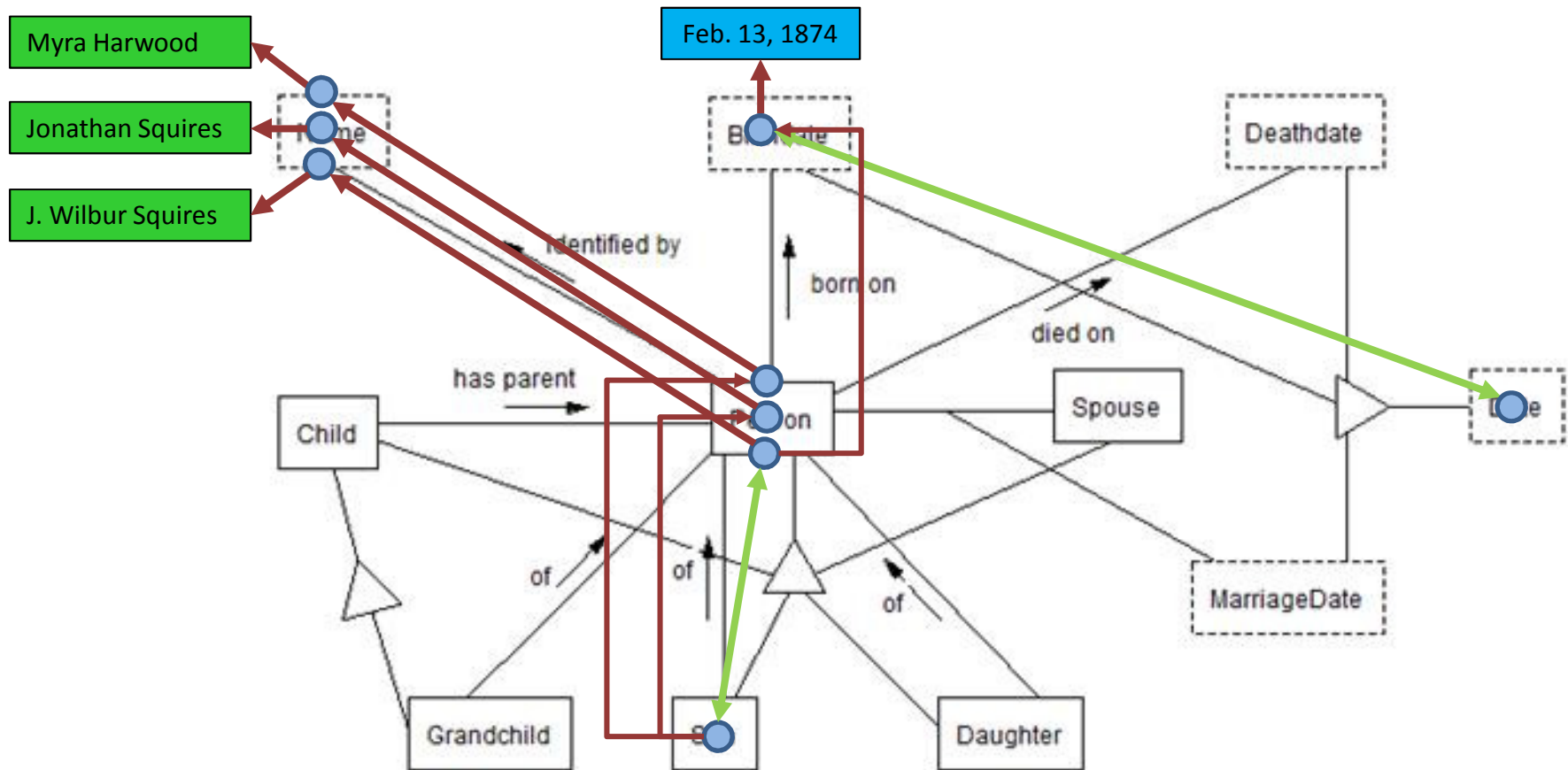
# Unstructured Text

Children of JAMES HARWOOD, No. 103.

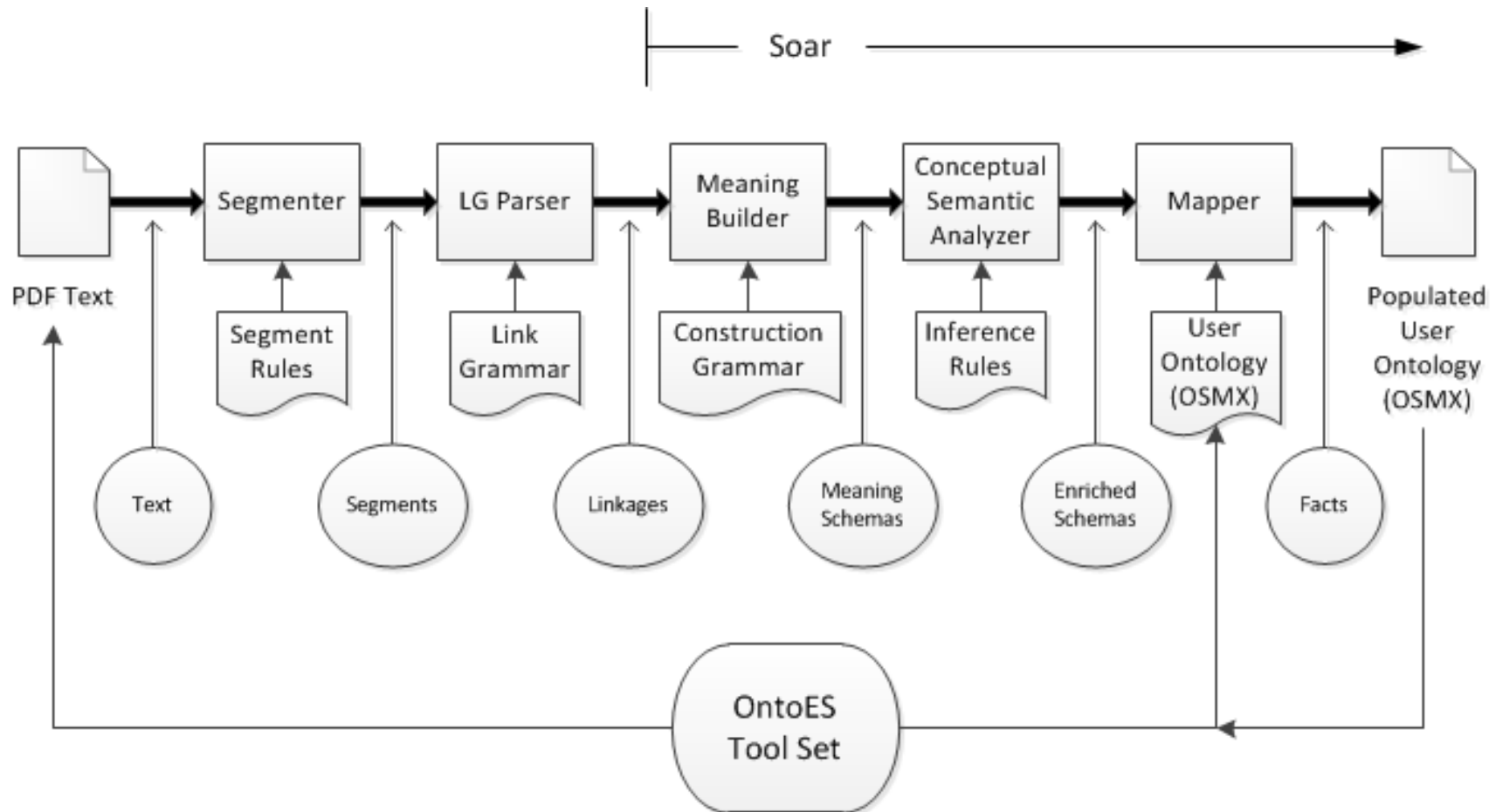
229. MARY, born July 26, 1835, in Eden, Vt. She married ELIJAH SPENCER, Dec. 25, 1851. They had five children: Arvilla, born in 1852, is not living; Mariette, born Dec. 25, 1854, married Jonathan Snyder, have a family; Leverett, born Feb. 6, 1857, married Cora Smith, Nov. 2, 1879, had two children, Perry F. and Ida I. Leverett died May 21, 1910; Rosa E., born Jan. 13, 1860, married Emmett Byers, and have children; and Harrison, born about 1862, is not living. Elijah Spencer died in the Union army in 1863, and his widow married JONATHAN SQUIRES, who was born in Ohio, July 25, 1823, by whom she had one son, J. Wilbur, born June 16, 1865, in DeKalb county, Ind., married Cora M. Thomas, Aug. 24, 1887, they reside in St. Joseph, Mich., five children. Mrs. Myra Squires died in Allen county, Ind., Feb. 13, 1874.

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graph TD; M1((M)) --> E1[Eden, Vt.]; M1 --> E2[1835]; M1 --> E3[1851]; M1 --> E4[1863]; M1 --> E5[1865]; M1 --> E6[1874]; M1 --> E7[1879]; M1 --> E8[1910]; M1 --> E9[1852]; M1 --> E10[1854]; M1 --> E11[1857]; M1 --> E12[1860]; M1 --> E13[1862]; M1 --> E14[1887]; M1 --> E15[1854]; M1 --> E16[1857]; M1 --> E17[1860]; M1 --> E18[1862]; M1 --> E19[1865]; M1 --> E20[1868]; M1 --> E21[1871]; M1 --> E22[1874]; M1 --> E23[1877]; M1 --> E24[1880]; M1 --> E25[1883]; M1 --> E26[1886]; M1 --> E27[1889]; M1 --> E28[1892]; M1 --> E29[1895]; M1 --> E30[1898]; M1 --> E31[1901]; M1 --> E32[1904]; M1 --> E33[1907]; M1 --> E34[1910]; M1 --> E35[1913]; M1 --> E36[1916]; M1 --> E37[1919]; M1 --> E38[1922]; M1 --> E39[1925]; M1 --> E40[1928]; M1 --> E41[1931]; M1 --> E42[1934]; M1 --> E43[1937]; M1 --> E44[1940]; M1 --> E45[1943]; M1 --> E46[1946]; M1 --> E47[1949]; M1 --> E48[1952]; M1 --> E49[1955]; M1 --> E50[1958]; M1 --> E51[1961]; M1 --> E52[1964]; M1 --> E53[1967]; M1 --> E54[1970]; M1 --> E55[1973]; 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# A More Complex Ontology



# OntoSoar Architecture



# Two Cases

- Case 1:

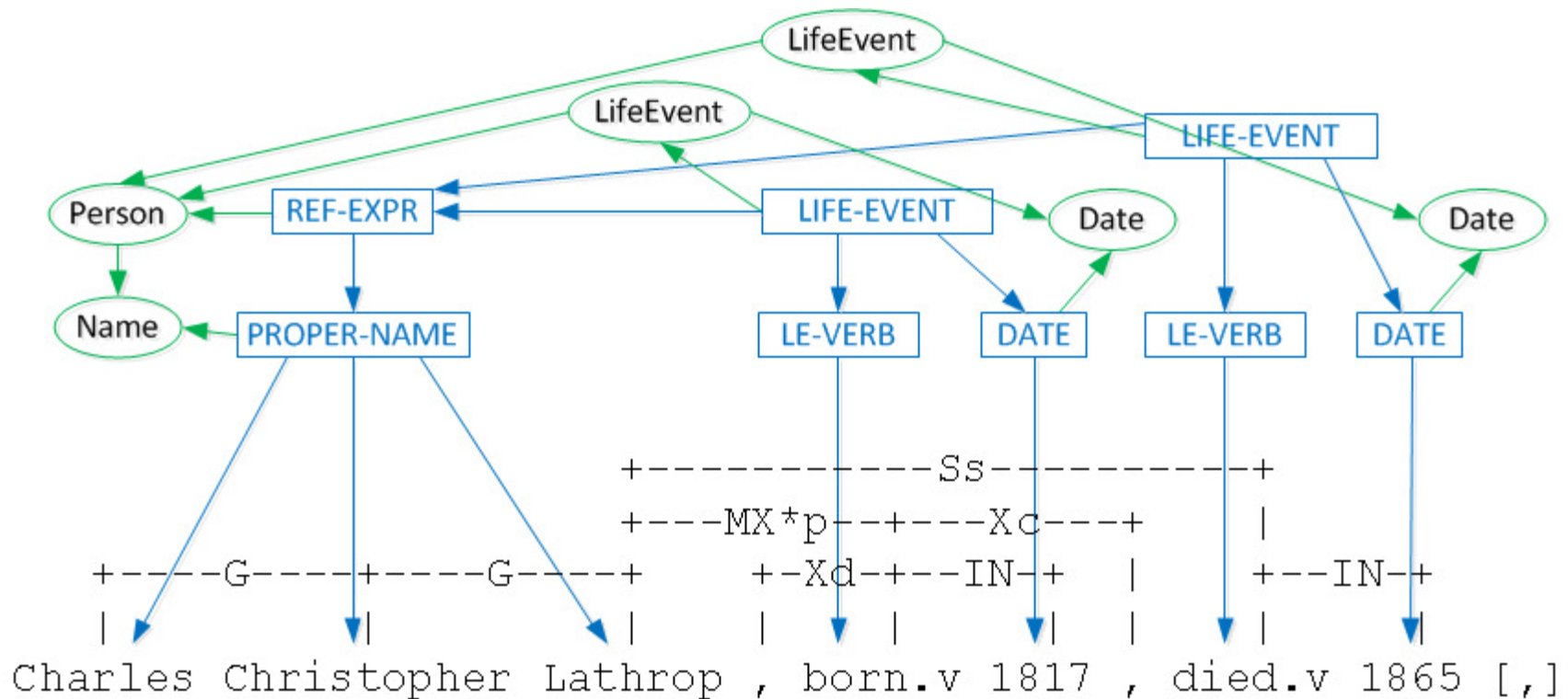
Charles Christopher Lathrop, N. Y. City, b. 1817, d. 1865, son of Mary Ely and Gerard Lathrop ;

- Case 2:

his widow married JONATHAN SQUIRES, who was born in Ohio, July 25, 1823, by whom she had one son, J. Wilbur, born June 16, 1865, in DeKalb county, Ind.

# Linguistic Analysis – Case 1A

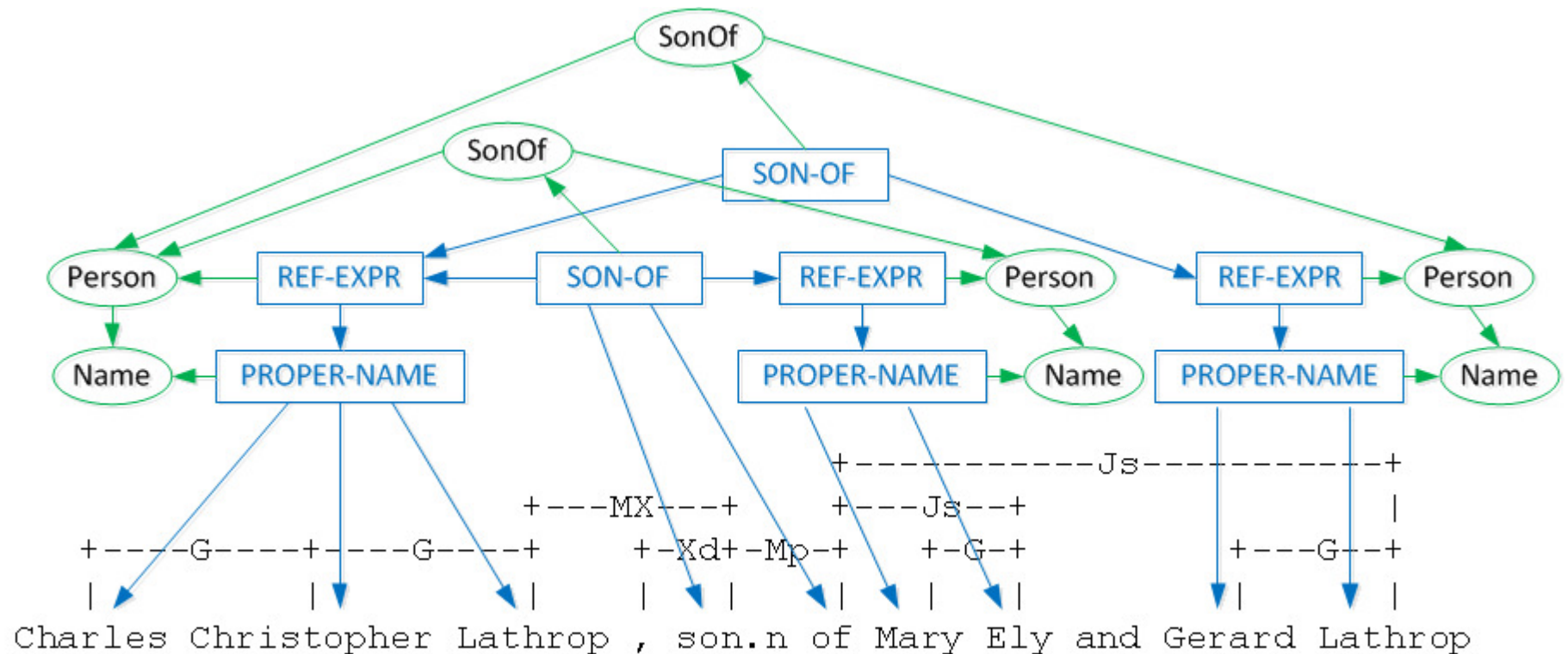
Charles Christopher Lathrop, ..., b. 1817, d. 1865,





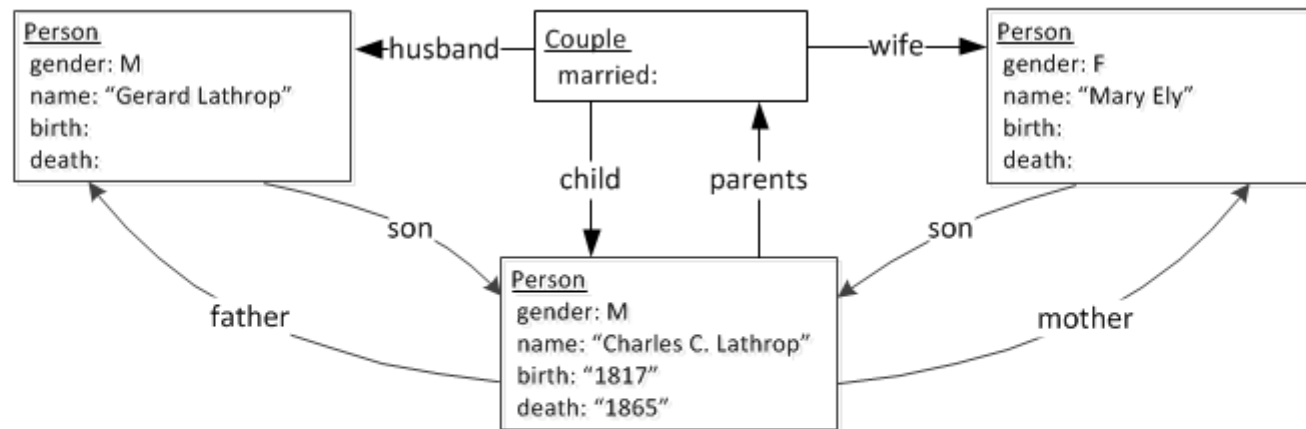
# Linguistic Analysis– Case 1B

Charles Christopher Lathrop, ... , son of Mary Ely and Gerard Lathrop ;



# Extracting Meaning – Case 1

Charles Christopher Lathrop, N. Y. City, b. 1817, d. 1865, son of Mary Ely and Gerard Lathrop ;



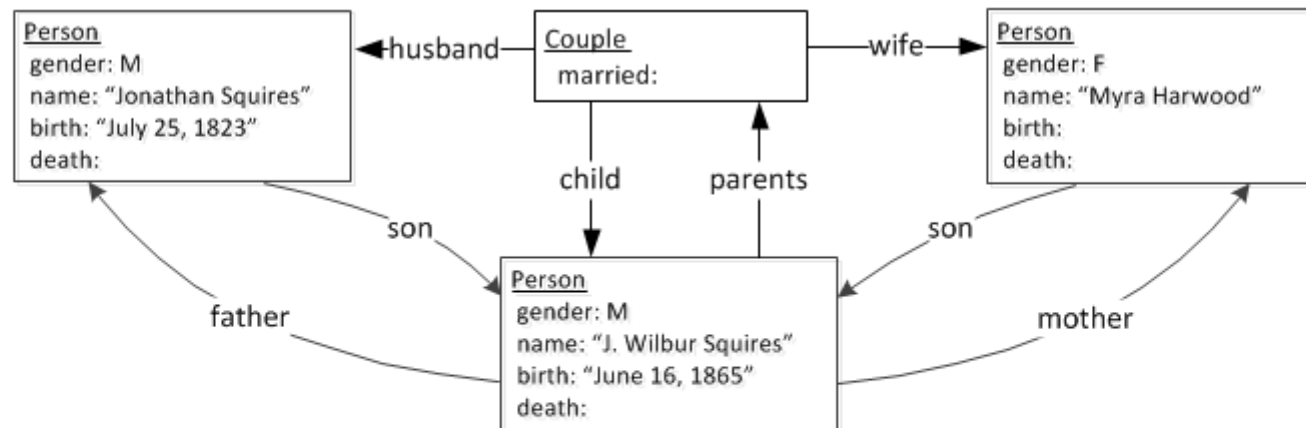
# Linguistic Analysis– Case 2

his widow married JONATHAN SQUIRES, ..., by whom she had one son, J. Wilbur, born June 16, 1865, ... .

his widow.n married.v JONATHAN SQUIRES , by whom she had.v one son.n , J. Wilbur , born.v June 16 , 1865 ,

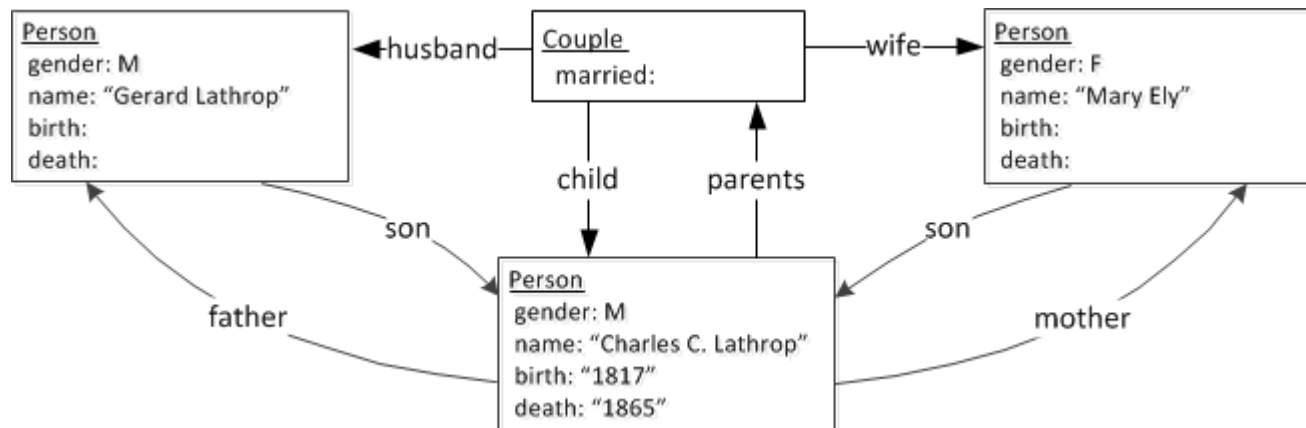
# Extracting Meaning – Case 2

his widow married JONATHAN SQUIRES, who was born in Ohio, July 25, 1823, by whom she had one son, J. Wilbur, born June 16, 1865, in DeKalb county, Ind.

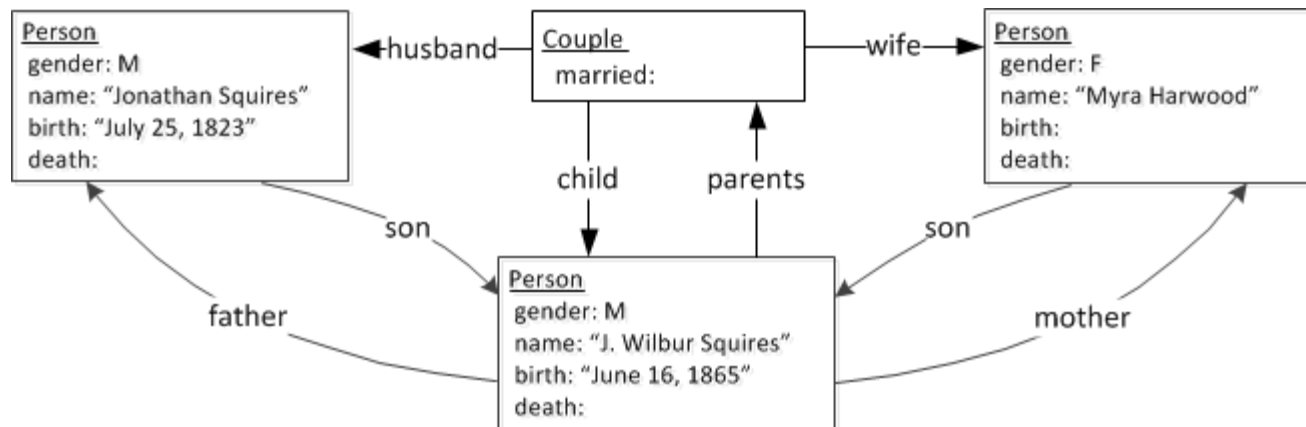


# Meaning Structures Compared

Charles Christopher Lathrop, N. Y. City, b. 1817, d. 1865, son of Mary Ely and Gerard Lathrop ;



his widow married JONATHAN SQUIRES, who was born in Ohio, July 25, 1823, by whom she had one son, J. Wilbur, born June 16, 1865, ... .



# Evaluation

Annotator
dithers.cs.byu.edu/annotator2/edit.php?type=form&id=235
Form Builder/Annotator Home Form Builder Logout Annotator Version 2

Person Basic

Name	BirthDate	DeathDate	
JAMES HARWOOD			✕
MYRA	July 26, 1835	Feb. 13, 1874	✕
ELIJAH SPENCER			✕
JONATHAN SQUIRES	July 25, 1823		✕
J. Wilbur	June 16, 1865		✕

Display Mode: Grid
Switch
Add Record

Form Edit Mode
Clear Form
Save Form
Save Data
Save Osmx
ListReader
Start Over

Actions	Keyboard Shortcuts
✍ Annotate selection (Keyboard 'A')	Tab: next field
+ Append annotation (Keyboard 'S')	Shift-Tab: previous field
✕ Clear annotations (Keyboard 'D')	click on field & Esc: move focus to field
click on token: annotate token (letters and digits only)	1-9: add 1-9 nested fields
Alt-click on token: annotate token (letters, digits & punctuation)	w: Next field
mouse-select & click: annotate selected text	q: Previous field
hold Ctrl(⌘ for Mac): append annotation on click or Alt-click	r: Repeat annotation
click on field: enter edit mode	a: Annotate current selection
Esc: leave edit mode	s: Append current selection
hover-⊞: add a nested record	d: Delete current annotation
hover-⊞: remove last nested record	x: clear annotation
	a: add record

Upload
Existing
of #

84 GENEALOGICAL HISTORY.  
228. JAMES, born July 23, 1835, in Wayne county, Michigan. He married BRIDGET HACKETT, a sister of his brother Edmund's wife, June 20, 1858. She died about 1875, was a member of the Catholic Church. Mr. Harwood died in Fenwick, Michigan, Aug. 19, 1910.  
Children of JAMES HARWOOD, NO. 103.  
229. MYRA, born July 26, 1835, in Eden, Vt. She married ELIJAH SPENCER, Dec. 25, 1851. They had five children: Arvilla, born in 1852, is not living; Mariette, born Dec. 25, 1854, married Jonathan Snyder, have a family; Leverett, born Feb. 6, 1857, married Cora Smith, Nov. 2, 1879, had two children, Perry F. and Ida I. Leverett died May 21, 1910; Rosa E., born Jan. 13, 1860, married Emmett Byers, and have children; and Harrison, born about 1862, is not living. Elijah Spencer died in the Union army in 1863, and his widow married JONATHAN SQUIRES, who was born in Ohio, July 25, 1823, by whom she had one son, J. Wilbur, born June 16, 1865, in DeKalb county, Ind., married Cora M. Thomas, Aug. 24, 1887, they reside in St. Joseph, Mich., five children, Mrs. Myra Squires died in Allen county, Ind., Feb. 13, 1874.  
230. HARRISON, born May 21, 1837, in Allen county, Ind. He enlisted Sept. 25, 1861, in the 44th regiment, Indiana volunteers, which went south from Indianapolis, Nov. 26, 1861. He was killed in the Stone River fight, in the great battle of Murfreesborough, Dec. 31, 1862. He was a member of the Methodist church.  
231. EDWIN, born April 25, 1840, in Allen county, Ind.

# Conclusions

## Accomplishments

- Preprocessor/Segmenter
- Adapted LG Parser for genealogy text
- Built a construction grammar meaning analyzer
- Mapped meaning schemas to user-defined ontologies
- Integrated all into a single processing pipeline
- Partially implemented – works well so far

## Future work

- Complete implementation
- Evaluate on a broader corpus
- Explore using a named entity recognizer
- Build in much more linguistic knowledge
- Research how to make the system learn linguistic knowledge