# High-Level View of a Source-Centric Genealogical Model: "The Model with Four Boxes"

Randy Wilson March 9, 2005

**Necessary Elements** 

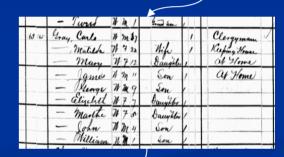
Source Authority

Artifact Archive

Structured Data Archive

Family Tree





	Relation	Marital Status		Race	Age	Birthplace	Occupation	Father's Birthplace	Mother Birthpla
Carlo GRAY	Self	M	Male	W	37	KY	Clergyman	KY	KY
Matilda GRAY	Wife	M	Female	W	32	VA	Keeping House	VA	VA
Mary GRAY	Dau	S	Female	W	12	VA	At Home	KY	VA
James GRAY	Son	S	Male	W	11	VA	At Home	KY	VA
George GRAY	Son	S	Male	W	9	VA		KY	VA
Elizabeth RAY	Dau	W	Female	W	7	VA		KY	VA
Martha GRAY	Dau	S	Female	W	5	VA		KY	VA
John GRAY	Son	S	Male	W	4	VA		KY	VA
William GRAY	Son	S	Male	W	1	VA		KY	VA
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#### 1. Source Authority

List of all known potential sources of genealogical data.



- Assign unique ID to each source.
- Provide way to find existing sources
- Provide way to add new sources
- Assign unique id to each "page" of source

#### 2. Artifact Archive

Hold scanned images for each page of each source

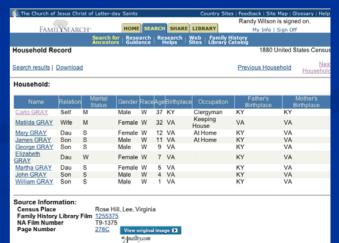
Uses id of page and source	)
from Source Authority.	

- Enables indexing or deep extraction over the internet
- Enables verification and permanent preservation.

#### 3. Structured Data Archive

a.k.a.: "Raw Data", "Source Data", "Evidence Database", or "Extracted Records"

- Accurately represent what a source says
- Has unique ID for each "persona" ("name"/"reference to a person") on each page.
- Contains names, dates, place, relationships, etc., that are clear from the source itself.
- Could possibly contain certain low-level assertions.



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Randy Wilson is signed on.

FamilYSearch"

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Research Helps

Web Sites

Family History Library Catalog

Household Record

1880 United States Census

Search results | Download

Previous Household

Household

#### Household:

Name	Relation	Marital Status	Gender	Race	Age	Birthplace	Occupation	Father's Birthplace	Mother's Birthplace
Carlo GRAY	Self	M	Male	W	37	KY	Clergyman	KY	KY
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William GRAY	Son	S	Male	W	1	VA		KY	VA

Source Information:

Census Place Rose Hill, Lee, Virginia

Family History Library Film 1255375 NA Film Number T9-1375 Page Number 276C

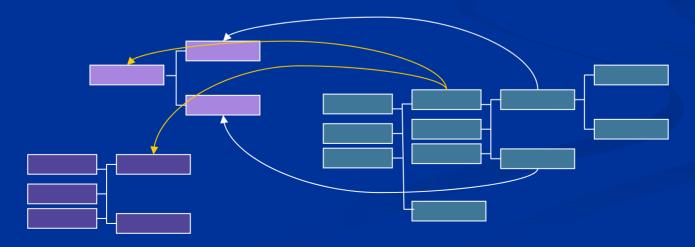
View original image 🗾

at Ancestry.com

### 4. Family Tree

Represents our conclusions about who has lived and how they are related.

- Contains copies of information from the extraction archive, along with persona IDs that point to where the information came from.
- Links "personas" from different records together through relationships or merging/grouping.



#### "To Do" List

- Locate all sources in the world and add them to the Source Authority.
- Extract all genealogical data from all sources (usually from scanned images).
- Link all extracted personas into the Family Tree
- Verify that all of the above was done right
- Perform all ordinances.

#### Tasks for Users

- Enter what they know
- Extract/index data from images (perhaps in a locality of interest to them)
- Link extracted records into their line in the Family Tree
- Do verification work on extraction, linking.
- Take a name to the temple

### Source Authority, cont'd

List of all sources, including, for example:

- Compiled family histories
- Records from courthouses and parishes
- Personal holdings (family bible, etc.)
- Cemeteries (pictures and/or transcriptions)
- Census records
- Memory of each user (i.e., personal knowledge)

#### Structured Data Archive

#### Important for:

- Computerized searching of data (traditional and record linkage)
- Pulling data into Family Tree for merging (grouping/linking).
- Knowing who on a page still needs work (and thus which sources still need work). Avoid missing people or repeating work forever.
- Simpler browsing of sources than using images.
- Additional context (e.g., who lives next door)

#### Extraction Archive, cont'd

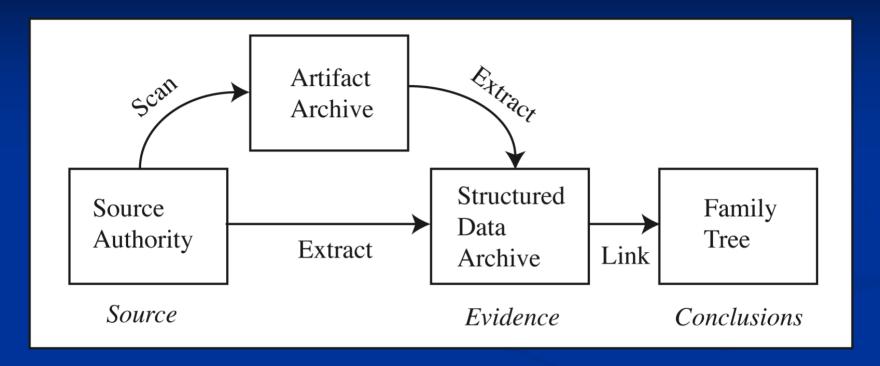
#### Also:

- Having intermediate step separates extraction work from linking/merging work and other conclusions.
- This makes it simpler to verify each step.
- It also makes it more clear where differences of opinion are coming from

#### Verification

- Currently thorough genealogists go back to the original source to confirm anything they find in an electronic database.
- This would take each person forever on the Family Tree.
- We must store the fact that each step has been verified so that eventually we can trust well-verified work and move on to something else.

#### "The Model with Four Boxes"



Source / Evidence / Conclusions

Record collections / extracted records / people

#### Summary

- Source-centric approach allows completeness without endless duplication of effort.
- Users can participate in various activities, but all of these can help move data from one point in the process to the next.
- Industry needs to think in a source-centric way to enable true collaboration.

## Questions? Ideas?

E-mail: wilsonr@ldschurch.org

#### Blogs:

eatslikeahuman.blogspot.com source-centric-genealogy.blogspot.com