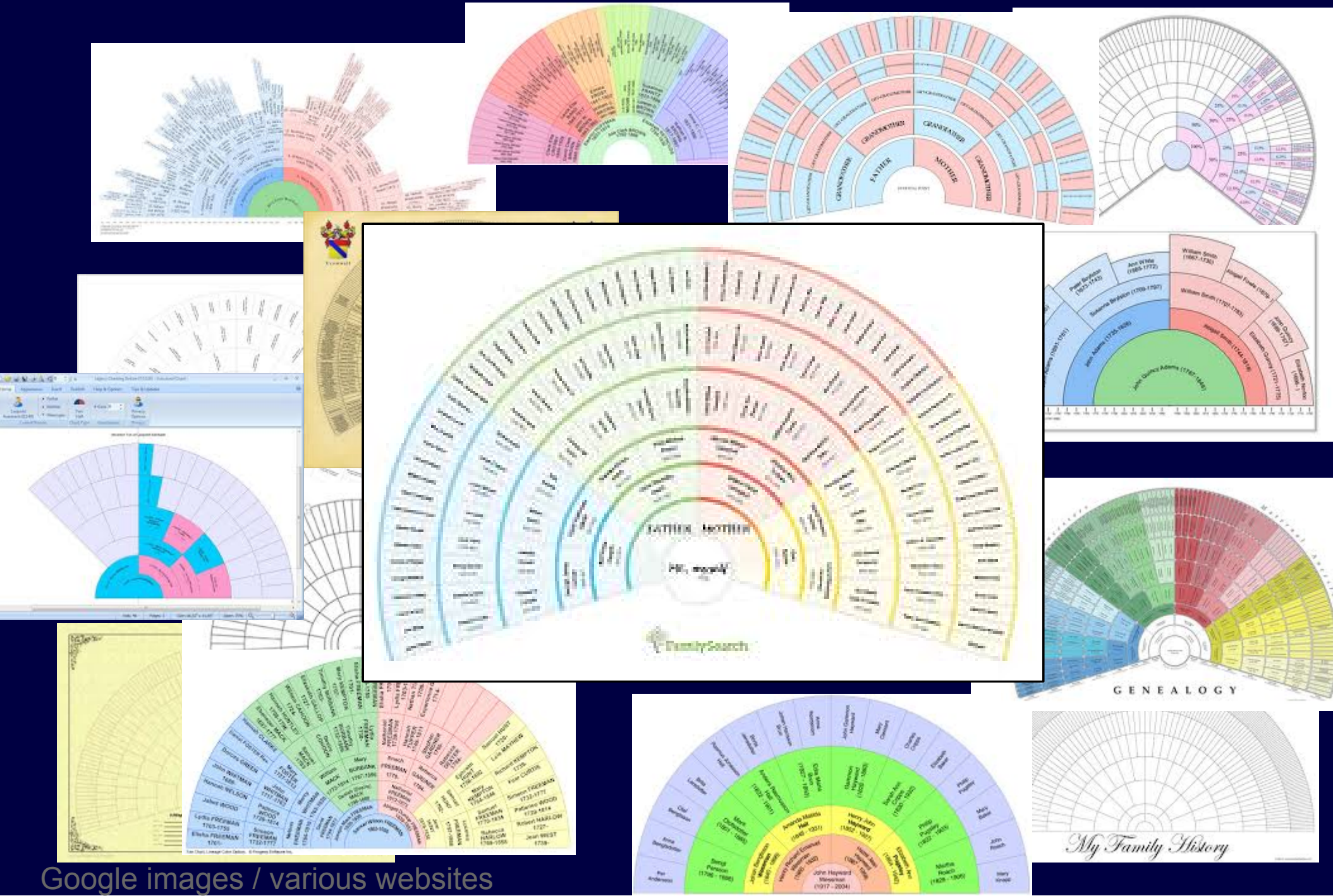


Interactive Folding Fan Charts: Improving User Efficiency Through Seamless Fusion of Multiple Levels of Detail

Douglas J. Kennard
Historic Journals LLC

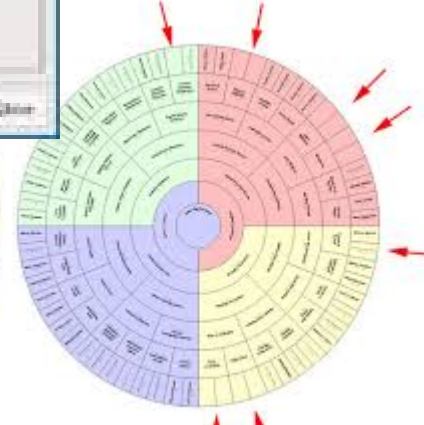
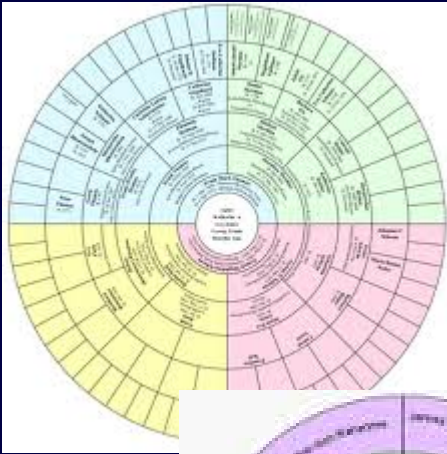
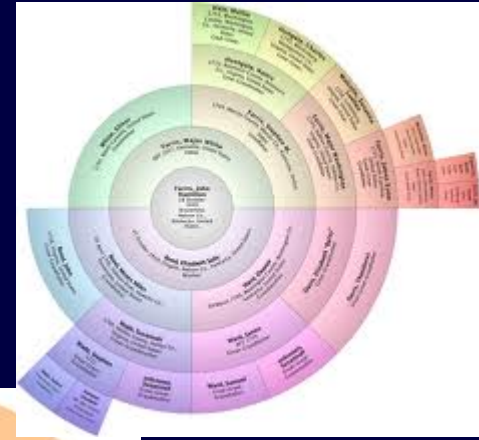
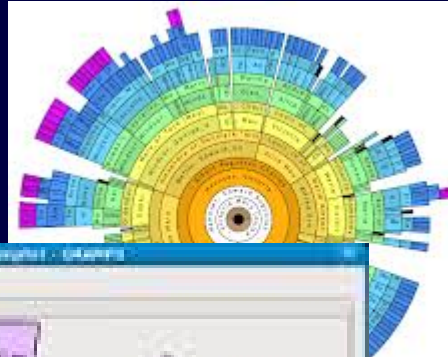
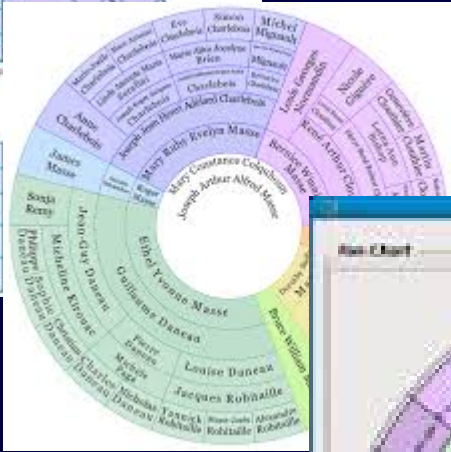
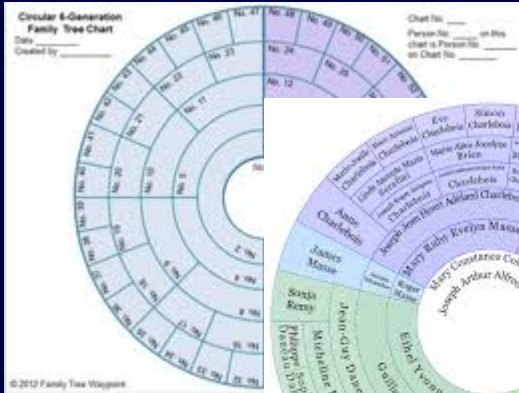
Family History Technology Workshop
Provo, Utah, March 20, 2014

Jumping on the Fanned Wagon



Ring-Style Fan Charts

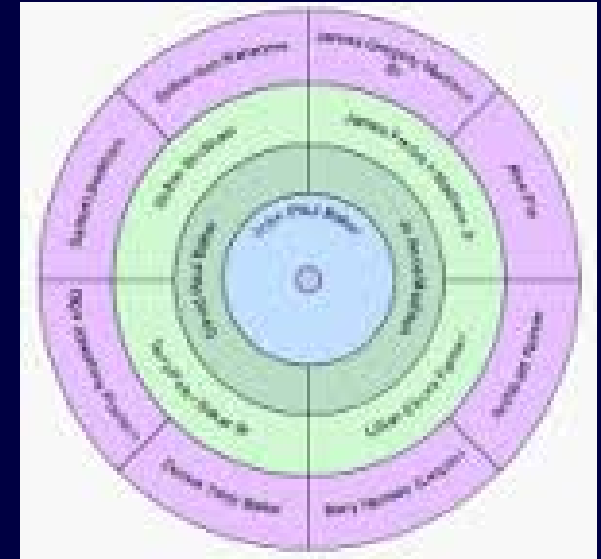
Google images / various websites



Some Previous Fan Chart Work at FHT

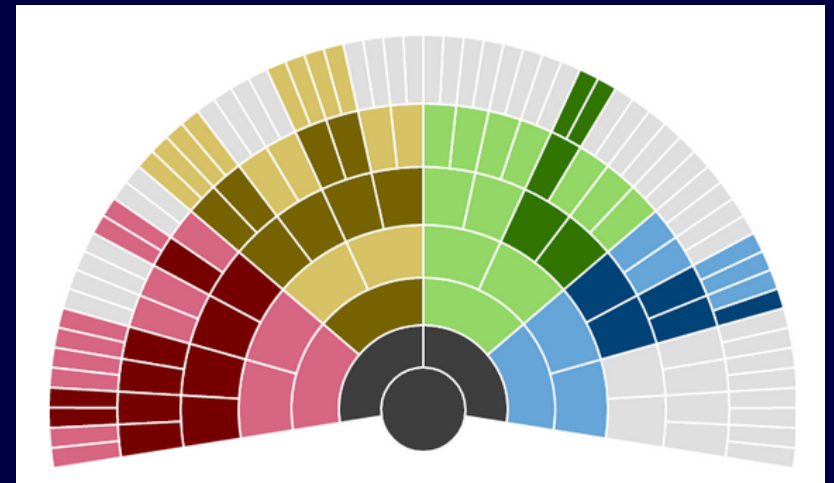
2008: Interactive Fan Charts (Efficient Use of Space)

Geoffrey Draper and Richard Riesenfeld



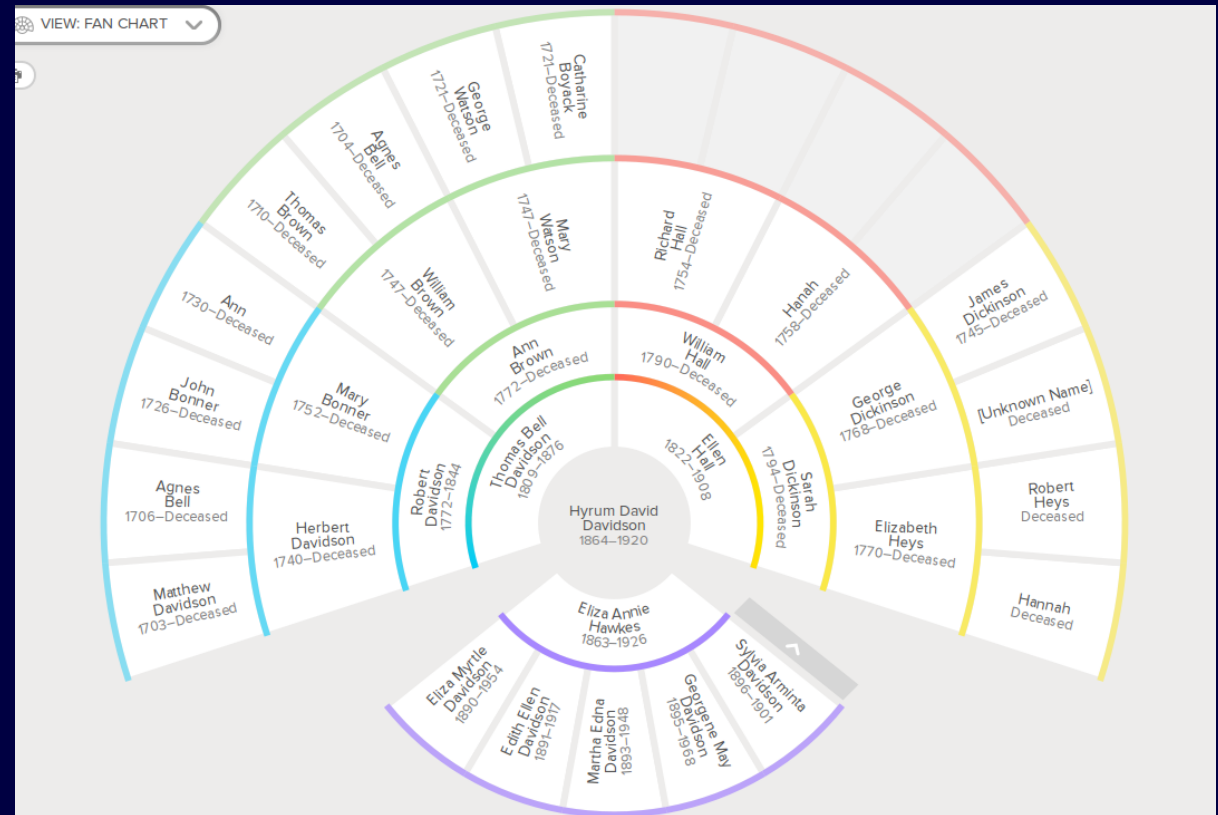
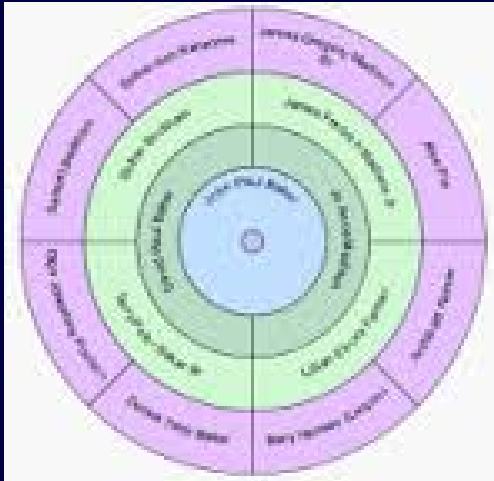
2013: Visualization / Search (Genealogy Holes)

Daniel Zappala

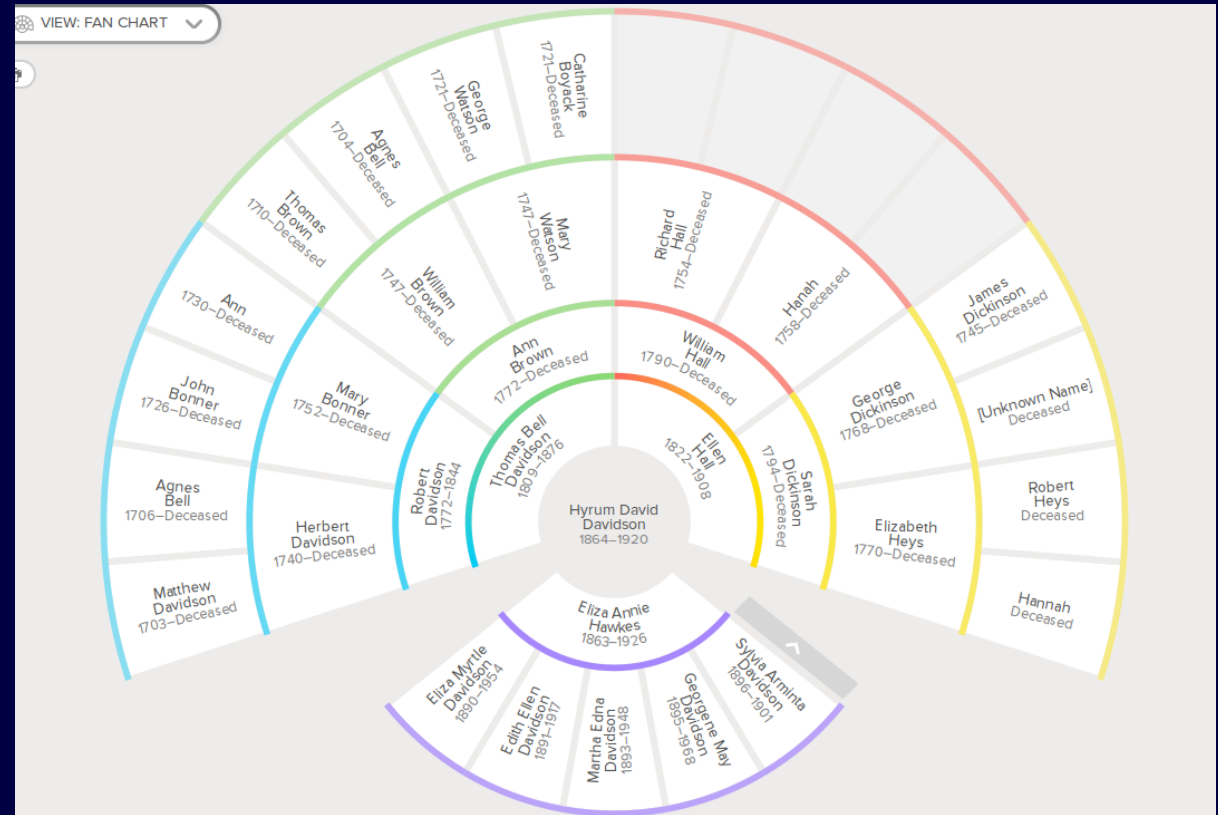
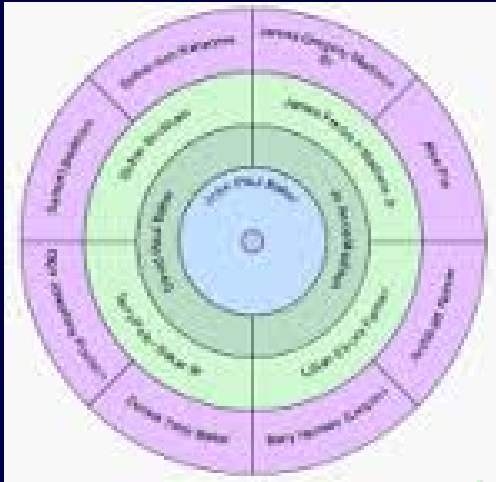


leaf.byu.edu

Problem: Disorientation inefficiency



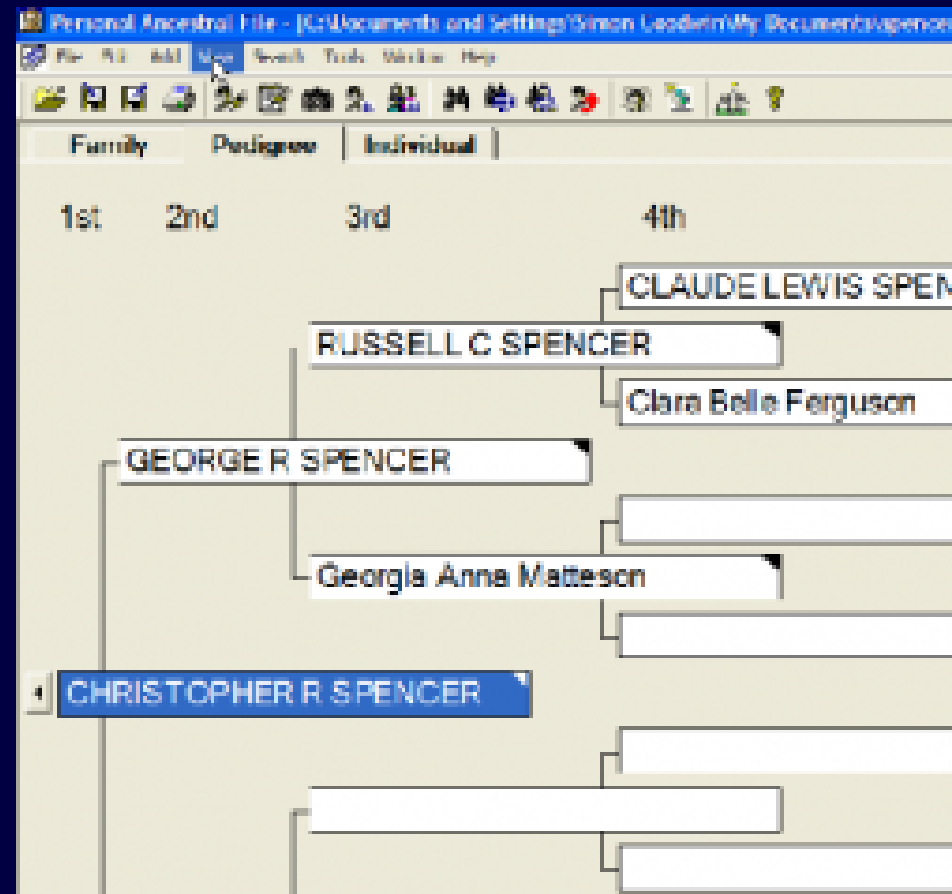
Problem: Disorientation → inefficiency



This isn't my chart anymore!



Problem: Disorientation → inefficiency



howtomakeafamilytree.weebly.com/family-tree-software.html

Same old problem!

Previous Work (Tree-Style Charts)

FHT 2001, 2002 (Sederberg, Saito, Finnigan)

OnePage Genealogy (Sederberg, et al.)

Virtual Pedigree (Cheatham, Wigington, Barrett)

Previous Work (Tree-Style Charts)

FHT 2001, 2002 (Sederberg, Saito, Finnigan)

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Lessons:

- Show it all!
- Pan-and-zoom
- Expand areas of current interest
- Smooth, animated interaction
- Find problems in the data

Folding Fan Charts

- Show many generations
- “Fold” / Expand (to show outer details)
- Pan / Zoom interface
- Thumbnail Overview
(expanded portion highlighted on full chart)

Folding Fan Charts on Historic Journals Website

- Maps integration
(show location of one ancestor, all ancestors,
or time-lapse)
- Tools to highlight problems in tree data
(loops, duplicates, bad event dates, etc.)



Search in fan



No highlight

Leonidas Hamlin Kennard (1842-1926) [KWCF-QGH]

- B: Mount Pleasant, Swan Township, Vinton, Ohio, United States (January 29, 1842)
- M: Farmington, Davis, Utah Territory, United States (January 29, 1869)
- D: Salt Lake City, S-Lk, UT (May 29, 1926)

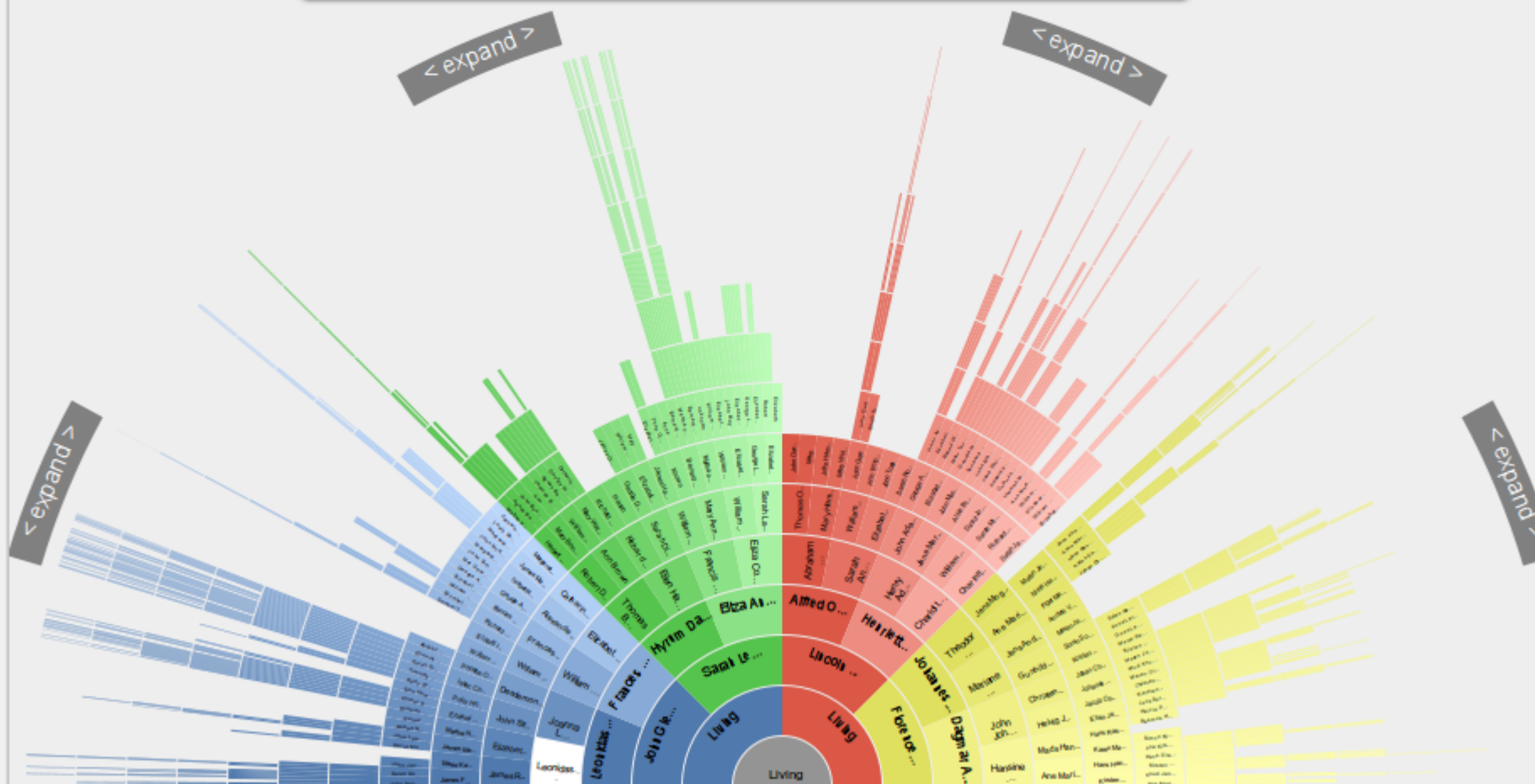


photo courtesy of FamilySearch

No journals, videos, or other artifacts. [Add](#)

This person is in the LDS pioneer database. [View](#)

[View person on FamilySearch](#)





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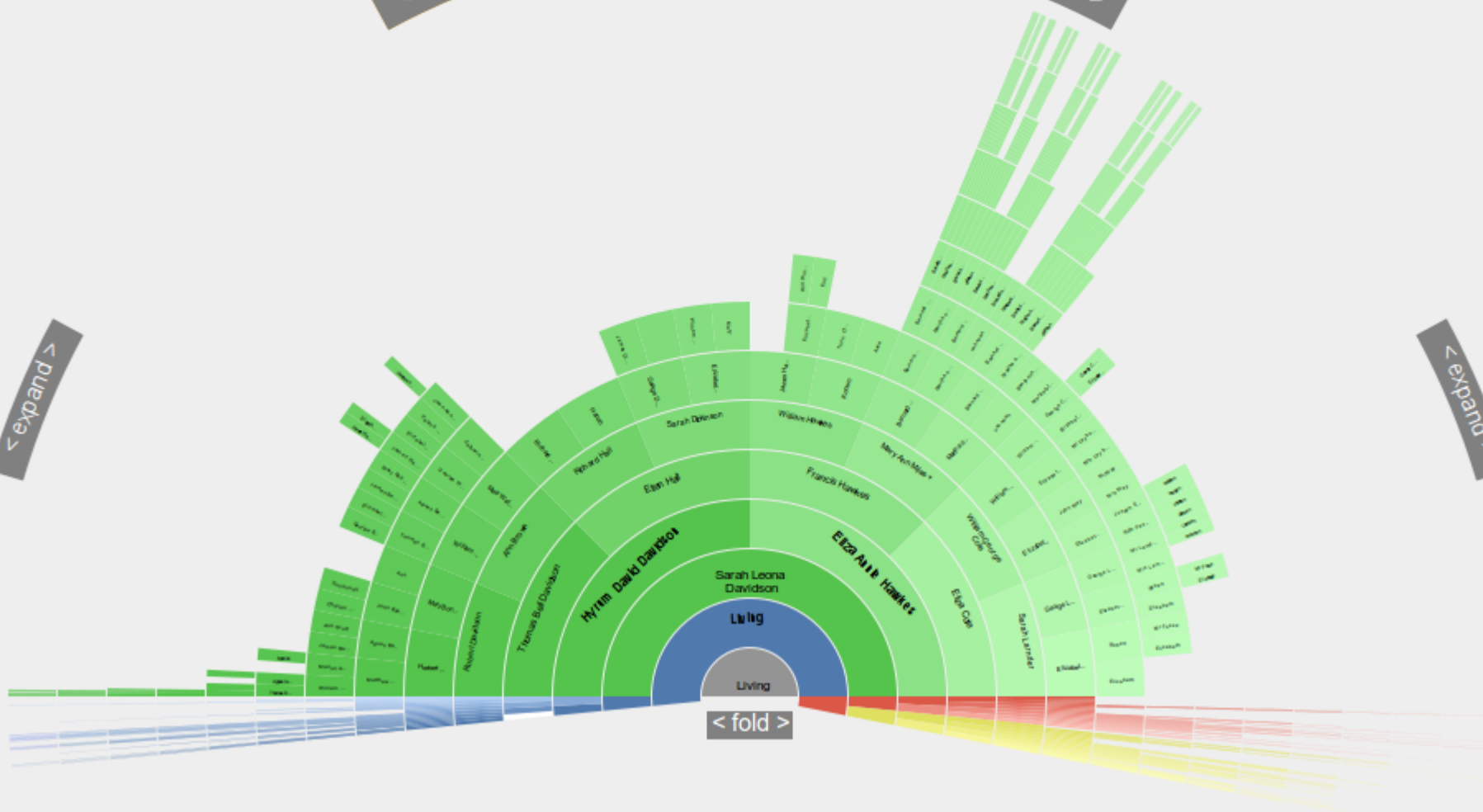
This person is in the LDS pioneer database. [View](#)

[View person on FamilySearch](#)



< expand >

< expand >



Results (informal)

- Faster, smoother interaction
- Easier to keep bearings
- Focus on useful / interesting information
- Tools make spotting problems trivial
- Overall, easier and more efficient

Conclusion

Combining multiple levels of detail
(thumbnail overview + many generations + pan-zoom)
improves user efficiency

Thank You

Thank You