



# Collaborative Genealogy The Genos Project

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# Genealogy Today



- There are a vast number of tools available to the modern day genealogist
  - Data maintenance tools
  - Websites
  - Census records
  - Etc...
- As a result, it is *relatively* easy to gather large amounts of data



#### Data Issues



- As genealogists amass more and more data, they typically run into several problem areas:
  - Storing and maintaining different types of data
  - Representing that data in coherent ways
  - Finding new data and new ancestors



## Examples of Problems



- Storing and Maintaining Data:
  - Some tools don't support images or other multimedia
  - Some tools don't support the complex relationships in today's families and elsewhere
  - Some tools support only limited customization of genealogical records
  - Other tools have other limitations as well



## Example of Problems



- Representing the complex data that you have amassed:
  - It is difficult to decipher many of the existing tools and how relationships are defined
  - As stated previously, many tools don't allow certain customizations
    - Others allow more customizations, but simply don't provide a logical way of viewing such data



## Example of Problems



- Finding new data and new ancestors:
  - Anybody who has followed their family tree back several generations realizes the difficulty in locating generations further and further back in time



# Genealogical Data



- Why are these issues important?
  - Genealogy is all about data
    - Genealogists don't build things, don't make things, they gather data
  - If the genealogical data isn't what it could be, it hampers the work



#### Genos



- Genos is an internal development project created by students working with employees at Northface University in South Jordan, Utah
- Some details about Genos:
  - Not meant to be the end-all, be-all genealogical tool
    - meant to be a potential solutions to the issues listed above
    - as well as provide students a great learning development environment
  - Open source tool written in C# and Java using SQL Server and in the future, Cloudscape



## **Data Customization**



- Genos is founded on the idea that anything can be represented with a combination of people, places, and events (PPE)
- Genos data is based on an XML specification (developed at Northface University) known as PPEXML
- As such, PPEXML can represent virtually any data type, data relationship, and data formats are completely open



## Data Representation

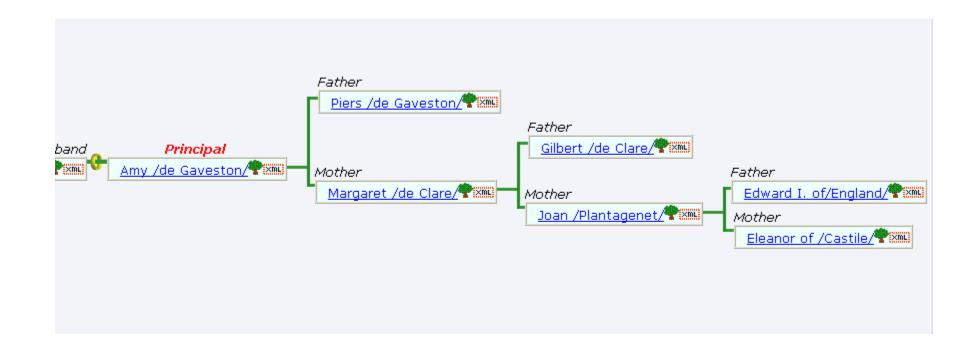


- Genos offers two extremely flexible data views which allow for very coherent visual representation of data
  - Family tree view
    - XML-based view with a lot of flexibility
  - People Event graph
    - A visual representation of a person's life and all the significant events
  - Future data representations
    - Encompassing open source as well as internal student development, Genos is continually under development
      - With the open-endedness of the data format, more helpful views are soon to follow



# Family Tree View







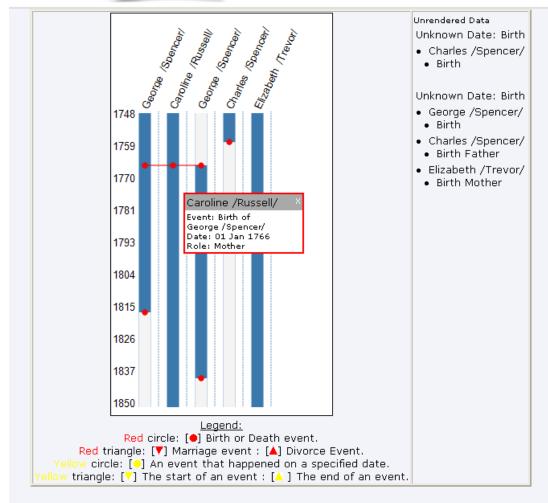
## People Event Graph



Principal: George /Spencer/









# Finding New Data



- Perhaps one of the best resources available to Genealogists may also be the most underused
- What is it?
  - Other genealogists
- Why use other genealogists to gather information?
  - Genealogists gather large amounts of data relatively quickly. Within the genealogical world, you have a nearly endless resource
  - Genealogists are people. This makes them much easier to work with and much more user-friendly than a website, a book, or any other data format



## Collaboration



- So the question then becomes.... How do we find other genealogists and how do we work with them?
  - Genos provides an ancestor search function which provides the genealogist with tools to locate other genealogists who potentially may be able to help them
  - Genos then offers a large number of collaboration tools which make working with genealogists much easier no matter how far apart they are geographically



## Common Ancestor Search



- To locate other genealogists with potential helpful information
  - You select a member of your own ancestral tree
    - Typically immediate family members of a missing person in your tree
  - Run searches on other genealogist's public data to identify potential matches
  - Run the common ancestor search tool to identify the likelihood of them being a match



#### Ancestor Search



• The search is based off of a series of weights which will rate other records as a certain percentage match to your own data:

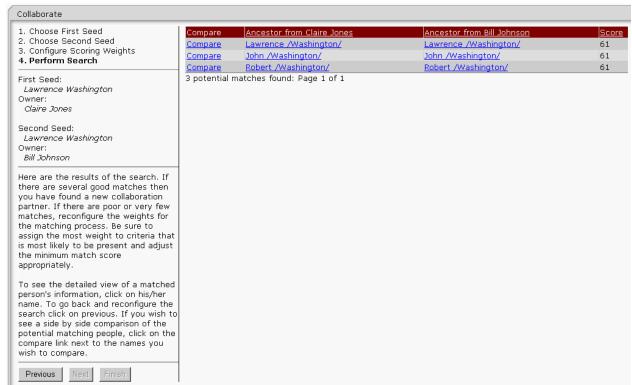
Collaborate		
1. Choose First Seed 2. Choose Second Seed 3. Configure Scoring Weights 4. Perform Search	Criterion	Weight
First Seed: Lawrence Washington Owner: presidents  Second Seed: Lawrence Washington Owner: presidents	Birth Date:  Death Date:  Father:  Mother:  Spouses:  Children:	25 25 10 5 5
Assign weights for the criteria used for matching. The total must add up to 100. By giving a higher or lower weight to a criterion you can customize matching process to fit the available data.  Enter the weight (out of 100%) you wish to assign to each of the scoring criteria. Also enter the minimum score (0 - 100%) that you wish to be considered a match. If the datasets you are comparing have mostly incomplete data, it is suggested that you set a lower match threshhold and assign most of the weight percentage to the criteria that you think will be most common.	Minimum Score:	60



#### **Ancestor Search Results**



• Genos then provides you with a list of potential matches indicating these data sets may belong to people who could help you with your own research





## Collaboration

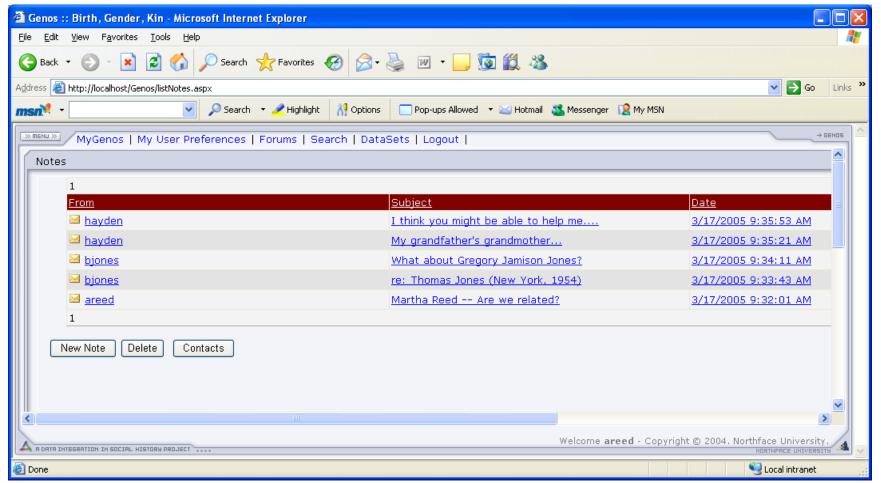


- Now that you've found genealogists who may potentially help you, you need to be able to contact them and work with them
- Genos provides a number of tools for this purpose:
  - Internal notes (work much like email)
  - Genos Chat
  - Instant Message
  - PPE Forums
  - General Forums



#### Notes - Screenshot







## Chat - Screenshot



Genos :: Chat - Microsoft Internet Explorer	
✓ Disconnect  Channels  Help #Alfred_Whitier [1] [nt]:	
*** Channel mode is +nt	areed
<pre><areed> Do you happen to know where he lived?</areed></pre>	
Yes well, at least where he was born.  public #Alfred_Whitier	
private Status	



## Summary



- There are a lot of complications in the genealogical world which are compounded as data grows and research yields more and more results
- Again, Genos isn't the end-all, be-all solution, but rather aims at offering some solutions to the common problems discussed above
- As a student internal development project as well as an open source solution, Genos will continue to evolve and grow to meet more of these demands



# Questions

• Are there any questions?

