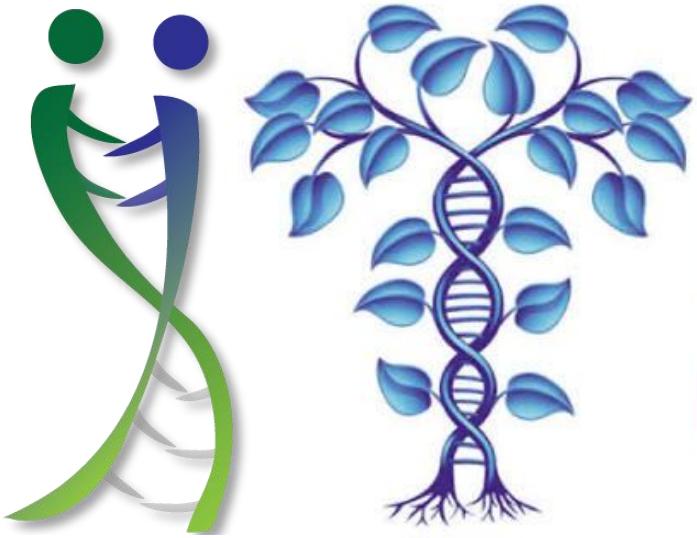
Welcome To



DNA GEDCOM

Robert Warthen
www.DNAGedcom.com

Welcome to DNAGedcom

GENETIC GENEALOGY STANDARD NINE

ISOGG

…PRIVATIZE OR REDACT THE NAMES OF LIVING GENETIC MATCHES FROM PRESENTATIONS UNLESS THE GENETIC MATCHES HAVE GIVEN THEIR PRIOR PERMISSION OR MADE THEIR RESULTS PUBLICLY AVAILABLE

…DISCLOSE ANY PROFESSIONAL *RELATIONSHIPS THEY HAVE WITH A FOR PROFIT* TESTING *COMPANY*

Affiliate for 23andMe, Amazon, Ancestry, FTDNA, Living DNA, My Heritage, Legacy Tree Genealogists

Who am I

- Just a guy who enjoys Genealogy and Computers
- Been working with DNA and Genealogy tools since 2011
- One of the Cofounders of DNAAdoption
- Adoptee and Brick Wall advocate
- Computer Programmer
- Long time IT server/network experience
- Worked at Nasdaq with Big Data before Big Data was a word
- I’m a Virginia Tech Hokie

Why I do this

- My wife is an adoptee
- Her mom asked me to help her find her birth family
- Part of a small innovate Yahoo Group where I saw the need to make getting data easy
- I believe your data is your data
- I believe that you don’t need to share your data if you don’t want to, but if you do, you should be able to do so

Researching

- You have LOTS of data
- How do you gather it into a useful format
- How do you quickly research this information
- How do you share what you want (and not what you don't want)

DNAGedcom

- Created to help more easily gather information
- Helps you break through Brick Walls
- Aggregator of Data
- Format your data to help you better understand it

Growth

- Double number of users each year
- Doubling the number of servers and doubling size of application server
- Server Costs have Grown Faster
- Support time and effort have grown even faster

❖Primers

- DNAGEDCOM is ***not*** GEDMatch

DNA GEDCOM

Tools to work with your
Match's information

[GED match]

Tools to work with your
Raw DNA and Tree

- Match Information is ***not*** Raw DNA

DNAGEDCOM TO THE RESCUE

HOME OF THE POWER TOOLS

Gather Information

Analyze Information

Process Information

❖Gather Match's Information

- Match Information
  - Name
  - Contact
  - Tree
  - More
- DNA Information
  - Shared Segments
  - ICW or Shared Matches

Used with permission GANDOZA 3D models

❖Process Match's Information

- ➢Puts information in format for analysis
- ➢Manual Steps
- ➢DNA
  - Files for analysis
- ➢Trees
  - Prepare Analysis Tool

Don't Forget to Blend!

❖Analyze Match's Information

- ➢DNA
  - Triangulation Groups
  - ICW/Shared Matches
- ➢Match's Trees
  - Names
  - Places
  - Dates

❖ Tools

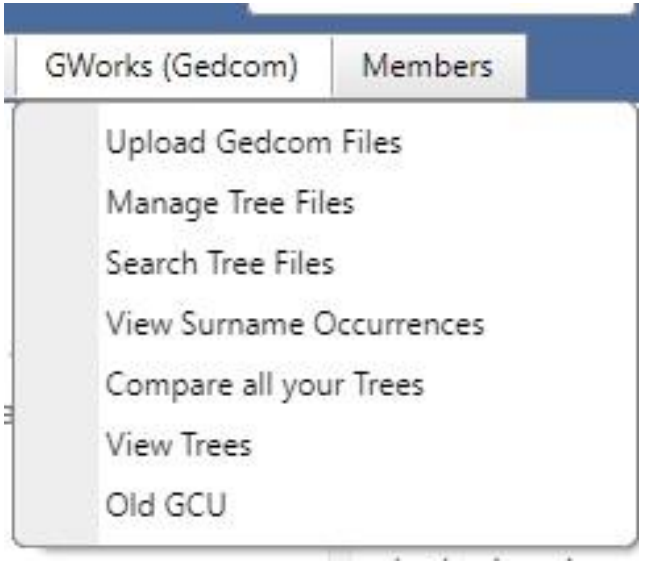
- ➢ DNAGEDCOM Client
- ➢ Match-O-Matic
- ➢ Ancestry Uploader
- ➢ Upload GedMatch
  23andMe and FTDNA
- ➢ JWORKS
- ➢ KWORKS
- ➢ ADSA
- ➢ GWORKS

Different tools for different tasks

Welcome to DNAGedcom

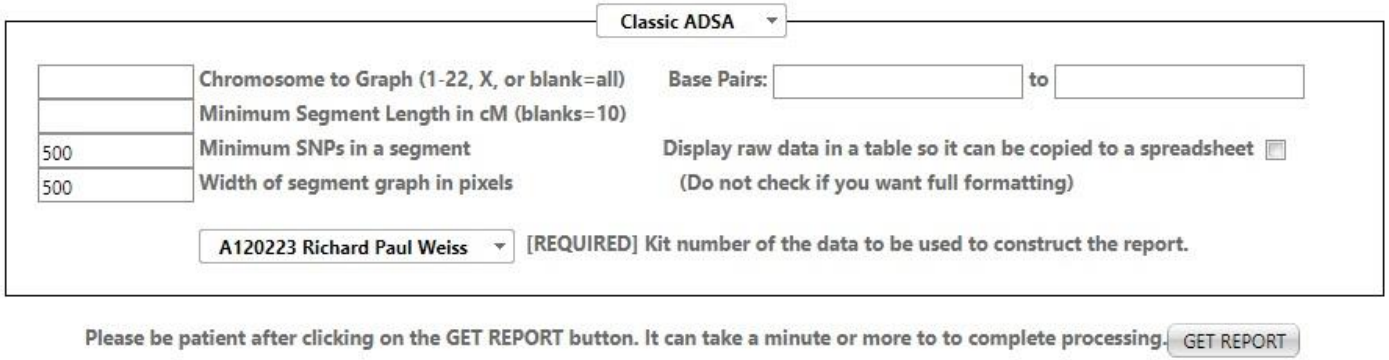
❖Analyze Information

- KWORKS/JWORKS Files
- Match-O-Matic Files
- ADSA
- GWORKS



❖Get Help

- How To Guides
- DNAGEDCOM Users FB Group



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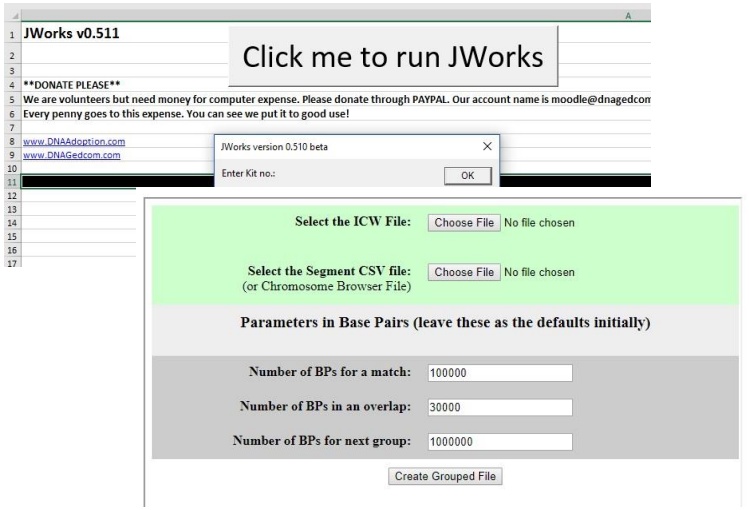
❖Analyze with KWORKS or JWORKS

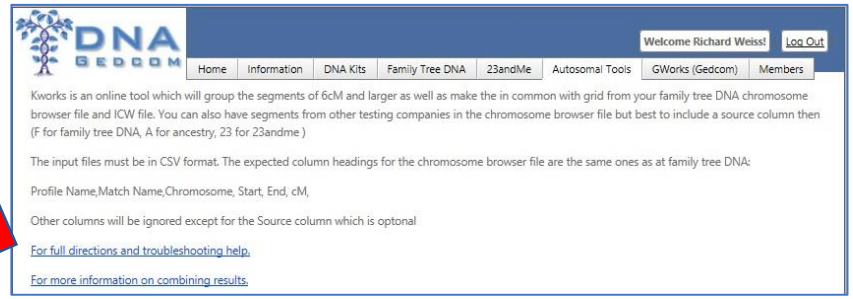
- ➢ DNA
  - Overlapping Segments Data
  - ICW Matrix
  - Match / Contact Info

➢Identify Triangulation Groups



❖Get Help

- ➢ Troubleshooting Guide
- ➢DNAGEDCOM Users FB Group



❖Analyze with KWORKS or JWORKS

Overlapping Segment Data

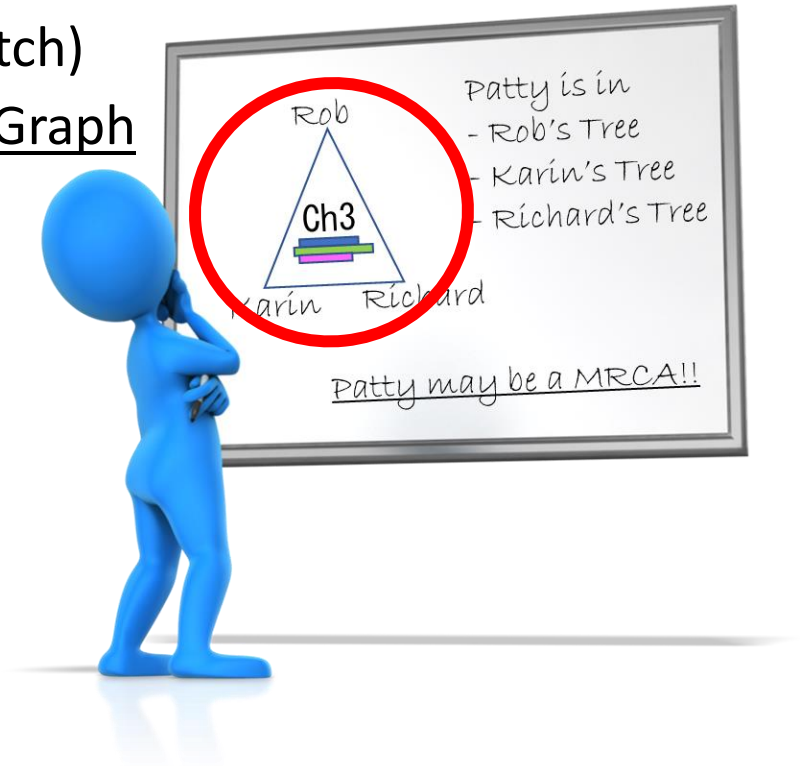
ICW Matrix

							Chris	Bill	Teri	Bob	Don	Jeff	Jim	Jan	Lee	Dane	Mike	Kim	Bea	Troy
5102																				
5103	Richard W.	Chris	18	3034	76116152	119.39														
5104	Richard W	Bill	18	3034	21016465	36.4											X			
5105	Richard W.	Teri	18	3034	13986751	33.37														
5106	Richard W	Bob	18	605394	6967044	16.93						X	X	X	X	X	X	X	X	
5107	Richard W	Don	18	605394	6967044	16.93														
5108	Richard W.	Jeff	18	843850	5134697	11.83				X			X	X	X	X	X	X		
5109	Richard W	Jill	18	843850	4766396	11.19				X		X		X	X	X	X		X	
5110	Richard W	Jan	18	843850	4766396	11.19				X		X	X		X	X	X			
5111	Richard W	Lee	18	1205306	5134697	10.94				X		X	X	X		X	X	X		
5112	Richard W	Dane	18	1205306	4276351	9.22				X		X	X	X	X					
5113	Richard W	Mike	18	2193362	6662545	12.31				X		X	X	X	X					
5114	Richard W	Kim	18	2479431	7071724	13.28				X		X			X				X	
5115	Richard W	Bea	18	3899336	6967044	7.71				X			X					X		
5116	Richard W	Troy	18	4050983	7594556	8.98														

Welcome to DNAGedcom

❖Analyze with ADSA (Autosomal DNA Segment Analyzer)

- ➢ DNA (FTDNA, 23andMe, GEDMatch)
  - Overlapping Segment Data & Graph
  - ICW Matrix
  - Match / Contact Info
- ➢ Identify Triangulation Groups



❖Get Help

- ➢ ADSA Manual
- ➢ DNAGEDCOM FB User Group

PLEASE READ THE ADSA MANUAL for step-by-step instructions for using the tool and a section on troubleshooting problems you may encounter. If you just want to get started without a lot of reading, you can follow the steps in the Family Tree DNA Quick Start Guide or the GEDMATCH Quick Start Guide. There are also special instructions for people with Ashkenazi ancestry. If you wish, you may still run the older version of ADSA (Version 1) from files. Please direct questions and comments to Don Worth at worth@ucla.edu.

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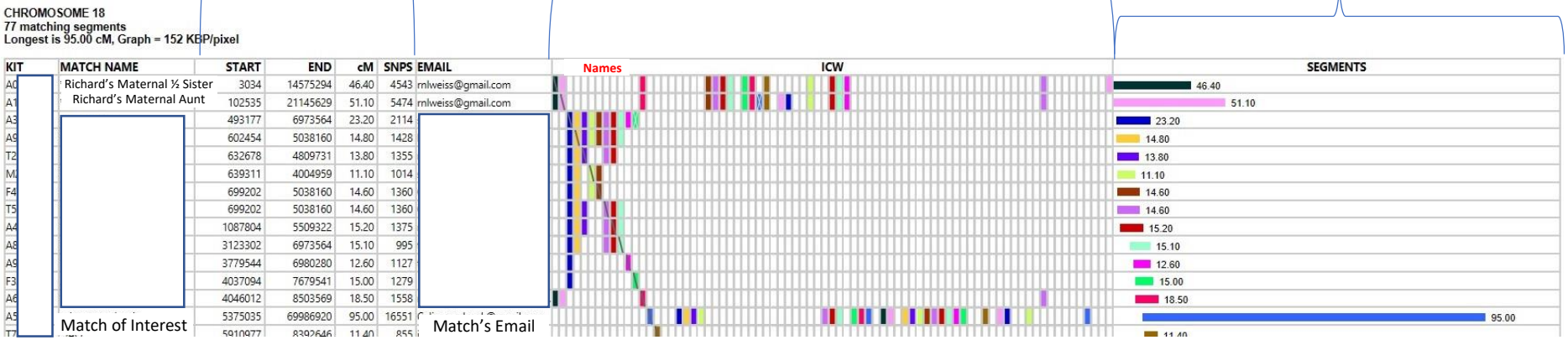
❖Analyze with ADSA

FTDNA, GEDMatch, & 23and Me

Overlapping Segment Data

ICW Matrix

Overlapping Segment Graph

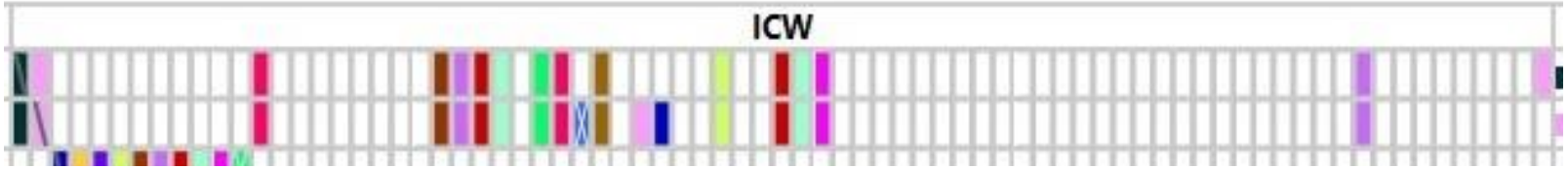


- Analyze with ADSA

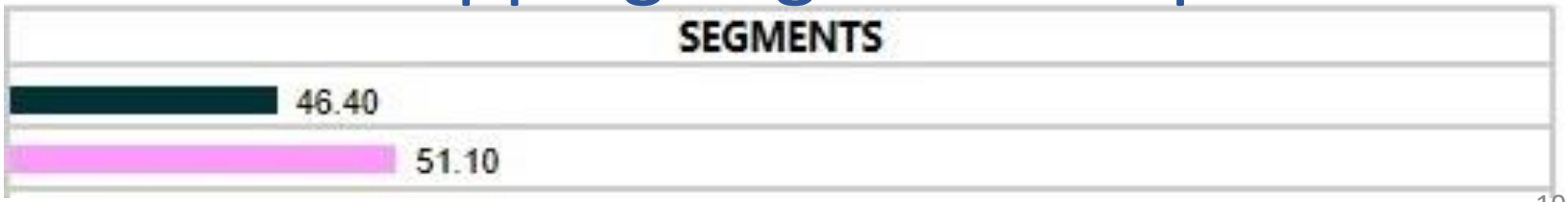
Overlapping Segment Data

KIT	MATCH NAME	START	END	cM	SNPS	EMAIL
A01234	*Richard's Sister	3034	14575294	46.40	4543	rnlweiss@gmail.com
A56789	*Richard's Aunt	102535	21145629	51.10	5474	rnlweiss@gmail.com

ICW Matrix



Overlapping Segment Graph



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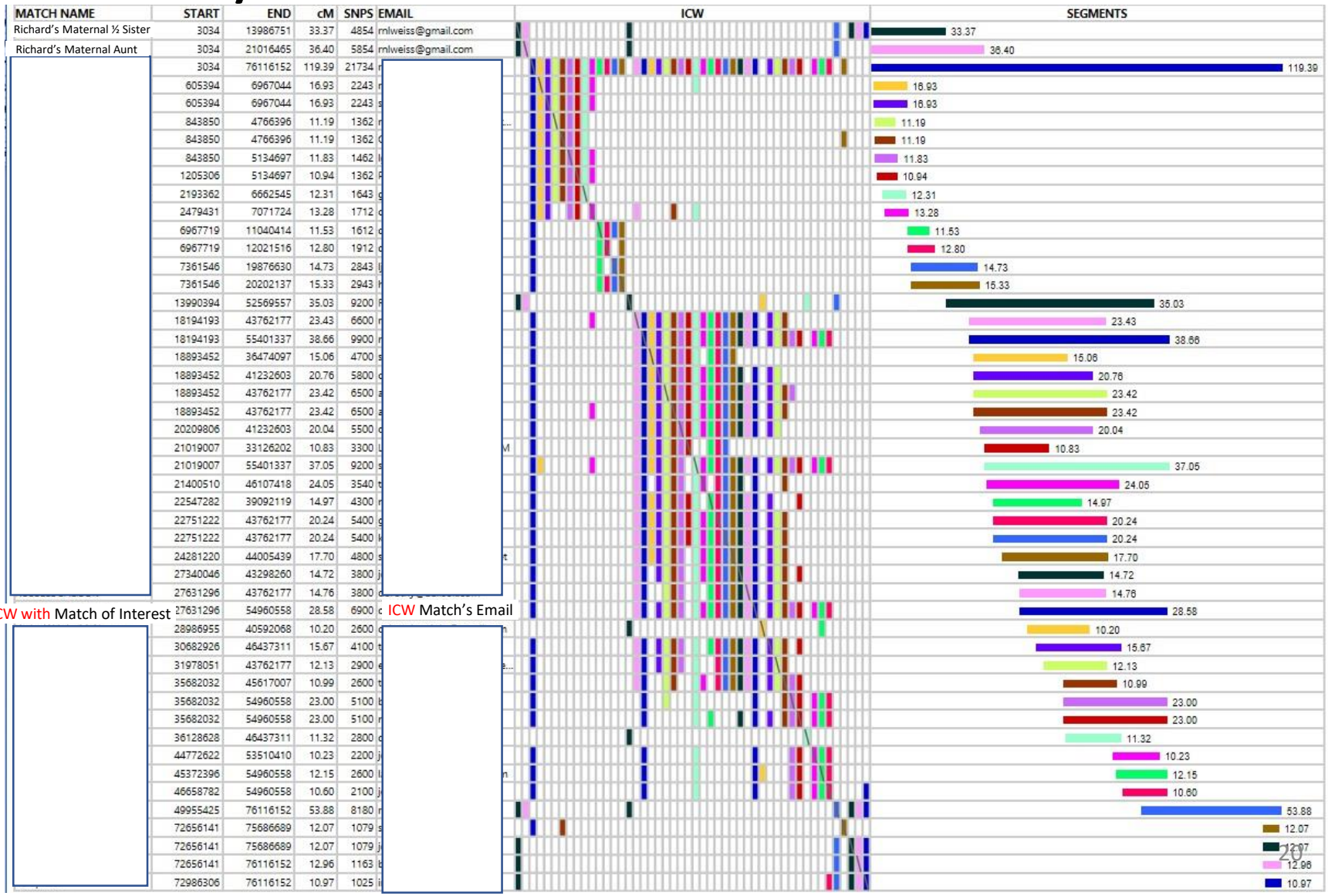
❖Analyze with ADSA

FTDNA



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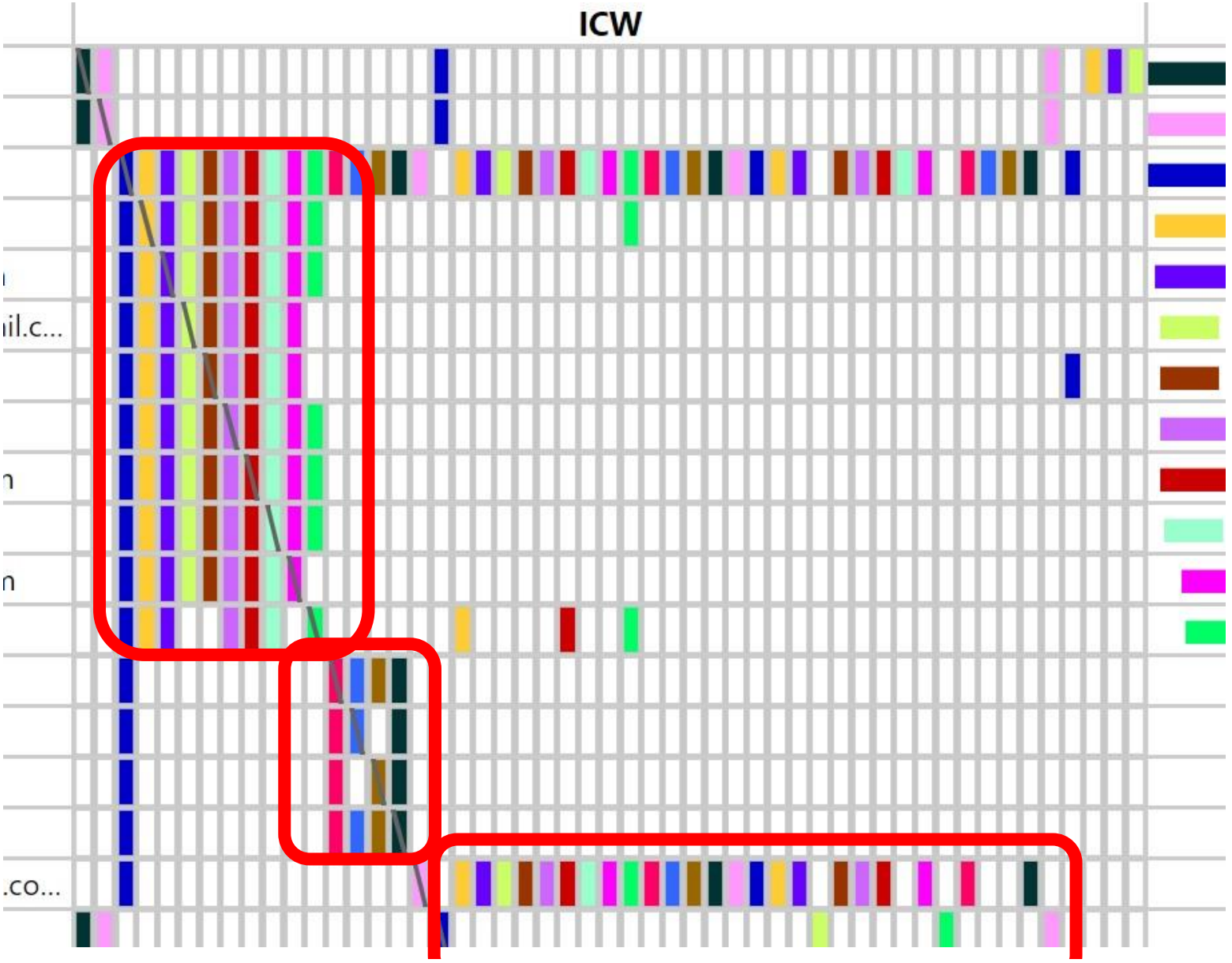
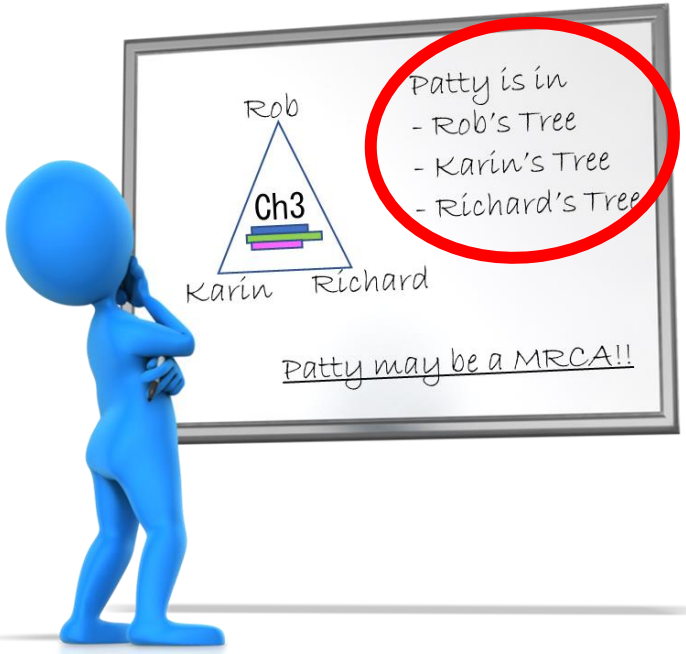
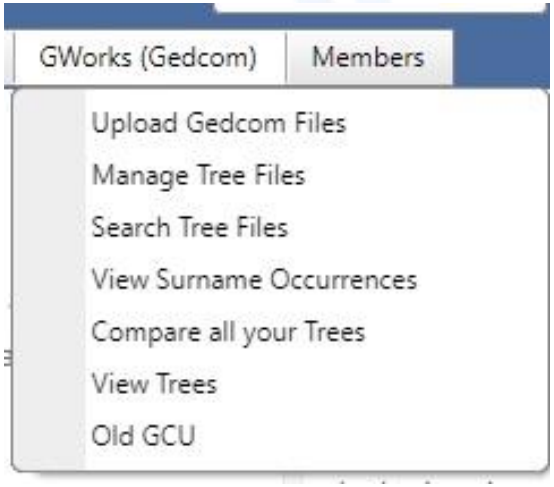


Welcome to DNAGedcom

❖Analyze Information

- ➢GWORKS
  - Analyze MATCH's Trees
- ➢Ancestry Trees
- ➢GEDCOMs
- ➢FTDNA Trees

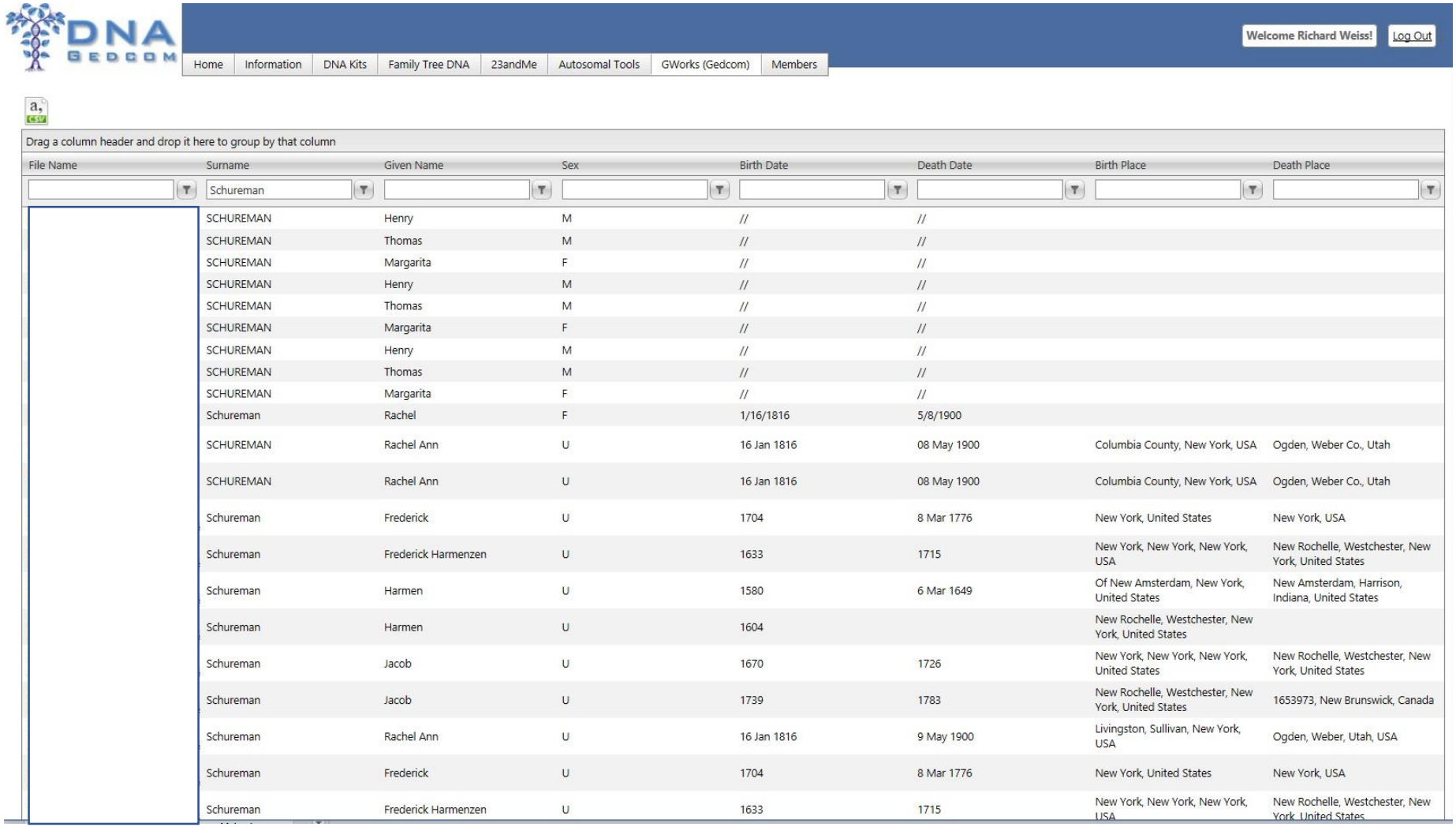




Only as good as your match's trees. May have to build their tree - GEDcom

Welcome to DNAGedcom

❖Analyze with GWORKS



File Name	Surname	Given Name	Sex	Birth Date	Death Date	Birth Place	Death Place
	Schureman						
	SCHUREMAN	Henry	M	//	//		
	SCHUREMAN	Thomas	M	//	//		
	SCHUREMAN	Margarita	F	//	//		
	SCHUREMAN	Henry	M	//	//		
	SCHUREMAN	Thomas	M	//	//		
	SCHUREMAN	Margarita	F	//	//		
	SCHUREMAN	Henry	M	//	//		
	SCHUREMAN	Thomas	M	//	//		
	SCHUREMAN	Margarita	F	//	//		
	Schureman	Rachel	F	1/16/1816	5/8/1900		
	SCHUREMAN	Rachel Ann	U	16 Jan 1816	08 May 1900	Columbia County, New York, USA	Ogden, Weber Co., Utah
	SCHUREMAN	Rachel Ann	U	16 Jan 1816	08 May 1900	Columbia County, New York, USA	Ogden, Weber Co., Utah
	Schureman	Frederick	U	1704	8 Mar 1776	New York, United States	New York, USA
	Schureman	Frederick Harmenzen	U	1633	1715	New York, New York, New York, USA	New Rochelle, Westchester, New York, United States
	Schureman	Harmen	U	1580	6 Mar 1649	Of New Amsterdam, New York, United States	New Amsterdam, Harrison, Indiana, United States
	Schureman	Harmen	U	1604		New Rochelle, Westchester, New York, United States	
	Schureman	Jacob	U	1670	1726	New York, New York, New York, United States	New Rochelle, Westchester, New York, United States
	Schureman	Jacob	U	1739	1783	New Rochelle, Westchester, New York, United States	1653973, New Brunswick, Canada
	Schureman	Rachel Ann	U	16 Jan 1816	9 May 1900	Livingston, Sullivan, New York, USA	Ogden, Weber, Utah, USA
	Schureman	Frederick	U	1704	8 Mar 1776	New York, United States	New York, USA
	Schureman	Frederick Harmenzen	U	1633	1715	New York, New York, New York, USA	New Rochelle, Westchester, New York, United States

Only as good as your match's trees. May have to build their tree - GEDcom

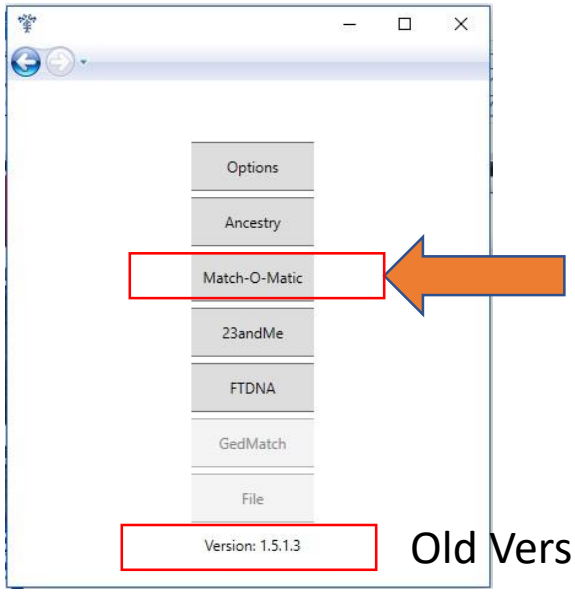
- Process Information

Don’t Forget to Blend!

Welcome to DNAGedcom

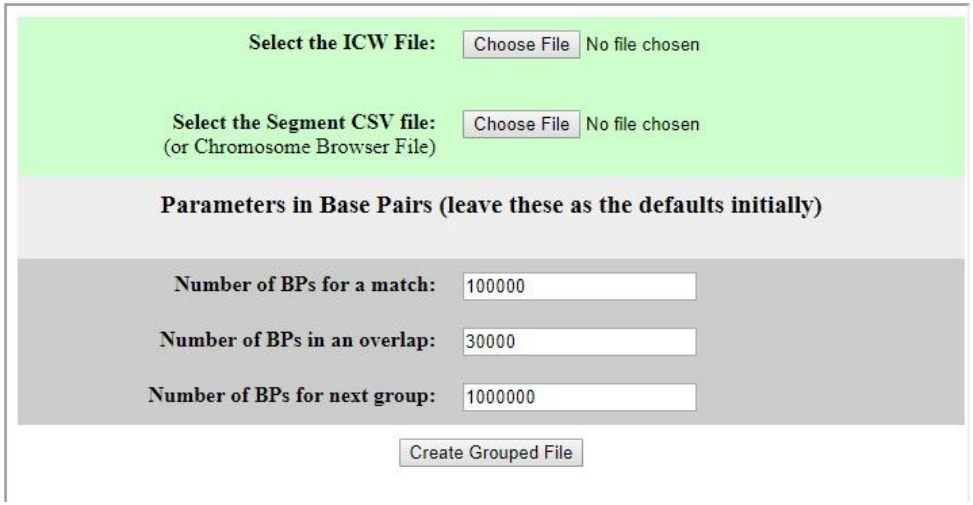
❖Process Information

- ➢ <u>Manually select files</u>



Old Version

- ➢ Match-O-Matic
- ➢ KWORKS
- ➢ JWORKS
- ➢ GWORKS (Gedcom)



❖Get Help

- ➢ How To Guide
- ➢ DNAGEDCOM Users FB Group

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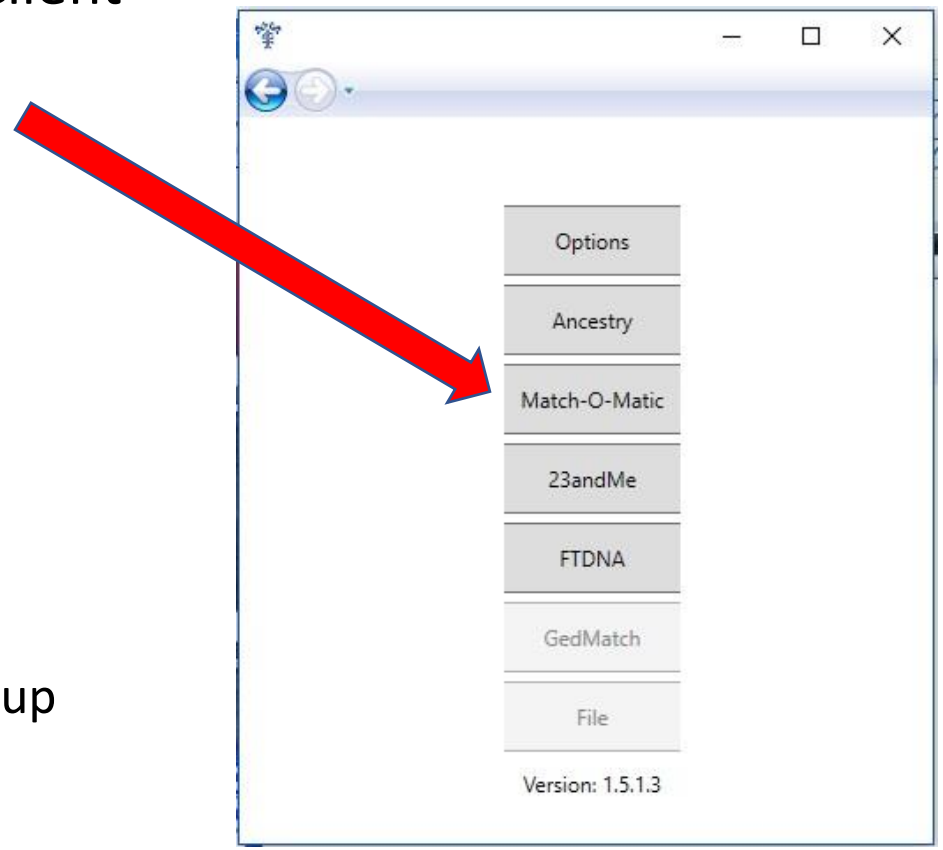
❖Process Match-O-Matic

- ➢ Part of DNAGedcom Client
- ➢ Windows and Mac

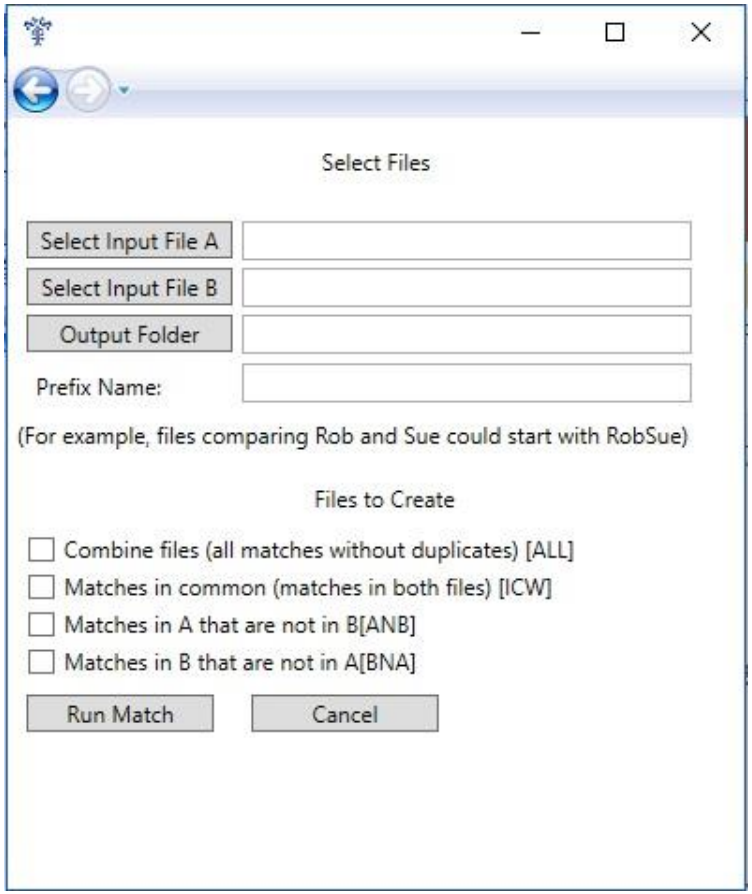


❖Get Help

- ➢ How To Guide
- ➢ DNAGEDCOM Users FB Group

❖Process Match-O-Matic

- ➢ Ancestry Match Files (m_file)
- ➢ Windows Version
  - ▪ No indication it is running
  - ▪ Won't Indicate it is finished
    - • Watch Output Folder
- ➢ Mac version indicates run status and completion

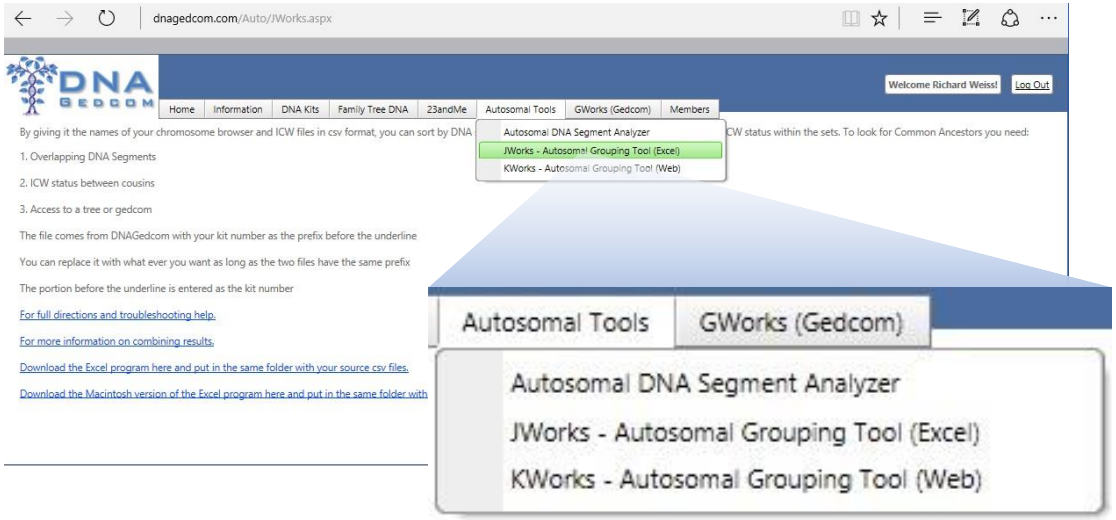


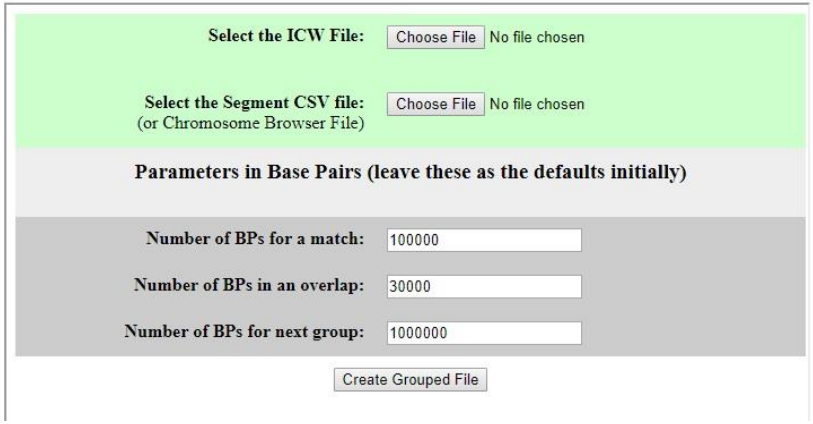
❖Get Help

- ➢ How To Guide
- ➢ DNAGEDCOM Users FB Group

❖KWORKS & JWORKS

- Identify Triangulation Groups
  - Overlapping Segment Data
  - No Overlapping Segment Graph
  - ICW Matrix
- Groups different than ADSA
- On-line vs Local
- Larger files => KWORKS



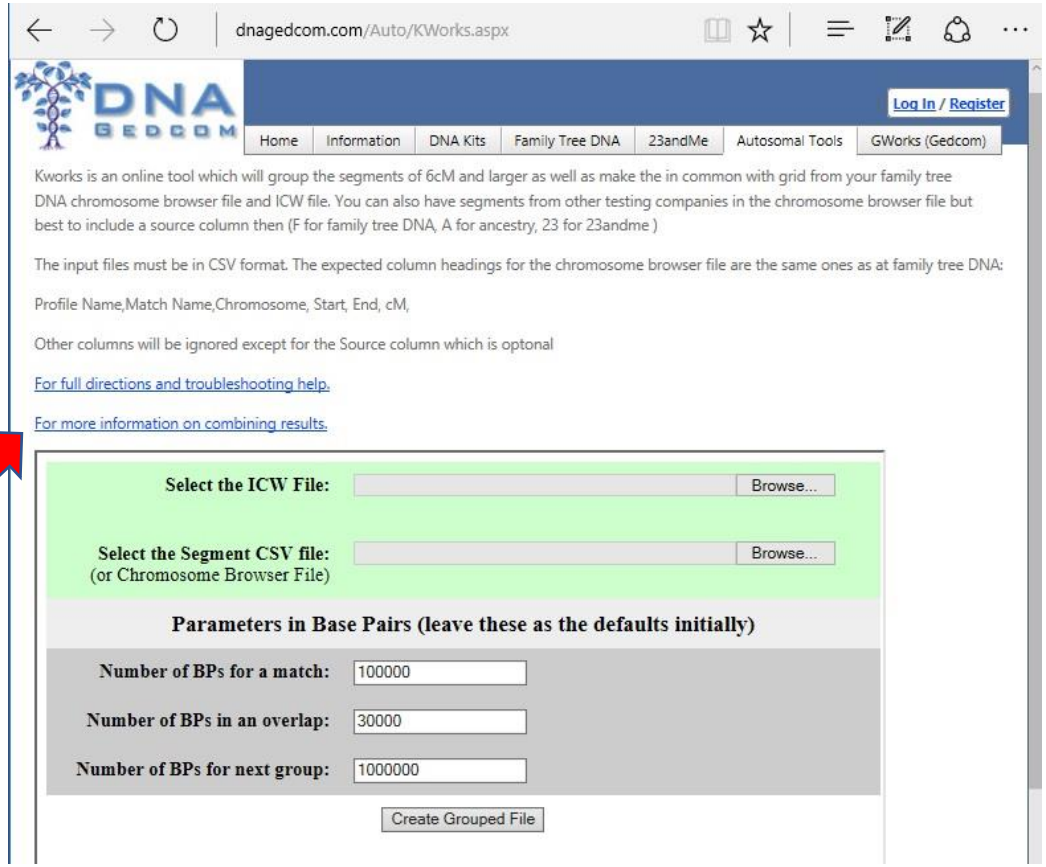


They Both Do the Same Thing!

Welcome to DNAGedcom

❖Process KWORKS

- ➢ FTDNA & 23andMe Files
- ➢ Modified GEDMatch files
- ➢ On-line



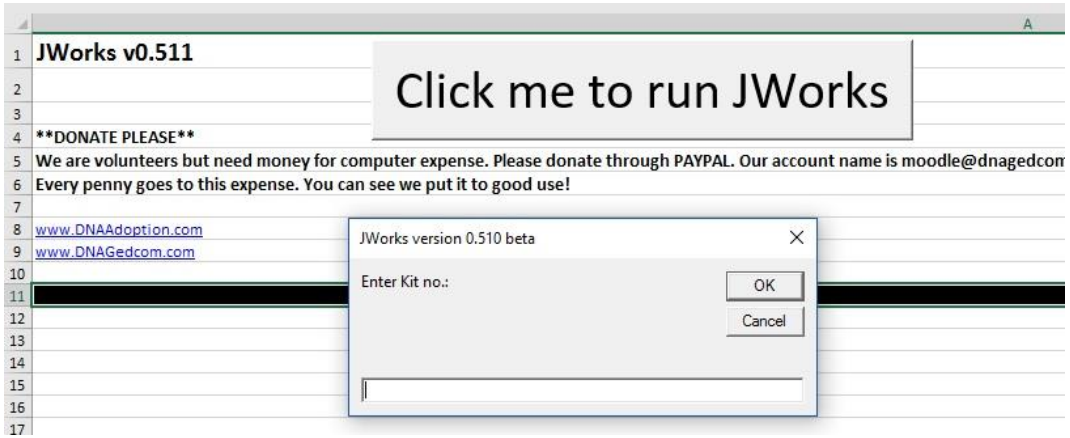
❖Get Help

- ➢ Directions
- ➢ DNAGEDCOM Users FB Group
- ➢ Kitty Cooper's Blog

Welcome to DNAGedcom

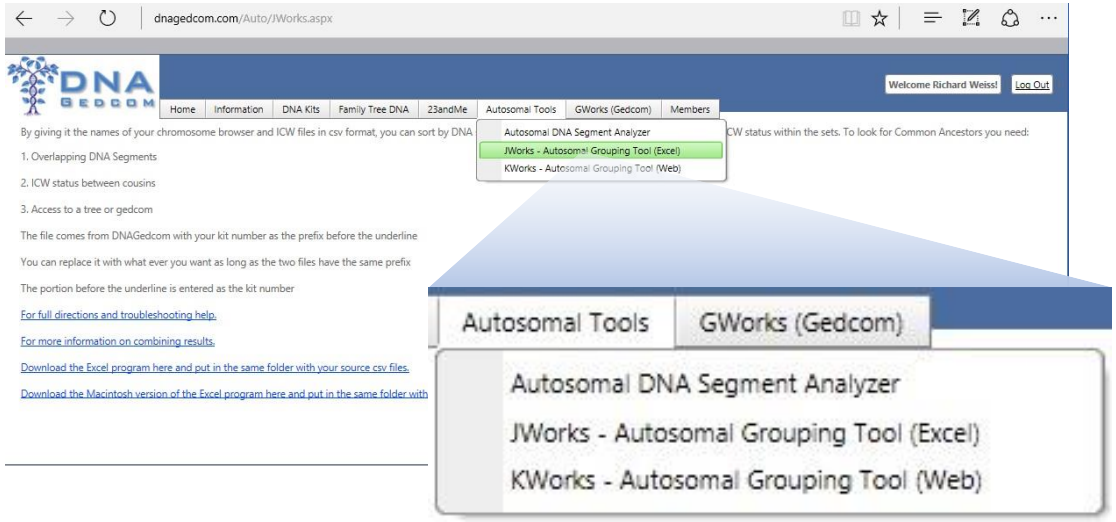
❖Process JWORKS

- ➢ FTDNA & 23andMe Files
- ➢ Modified GEDMatch files
- ➢ Windows & Mac



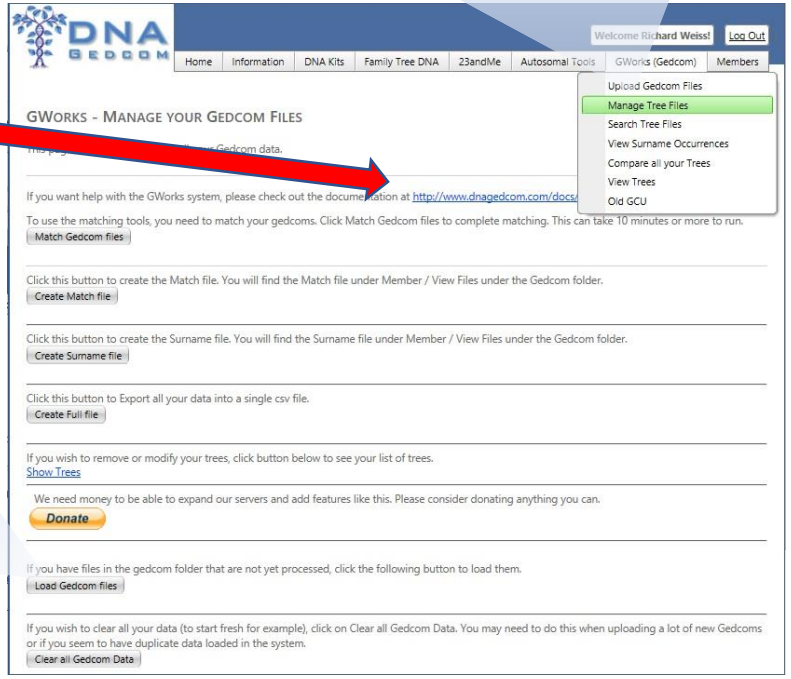
❖Get Help

- ➢ Directions
- ➢ DNAGEDCOM Users FB Group



Welcome to DNAGedcom

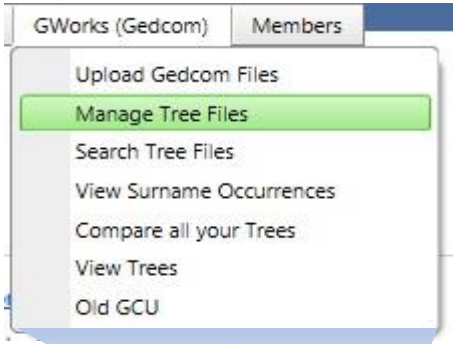
- Process GWORKS
  - Upload GEDCOM
- Get Help
  - **User Guide**
  - DNAGEDCOM Users FB Group

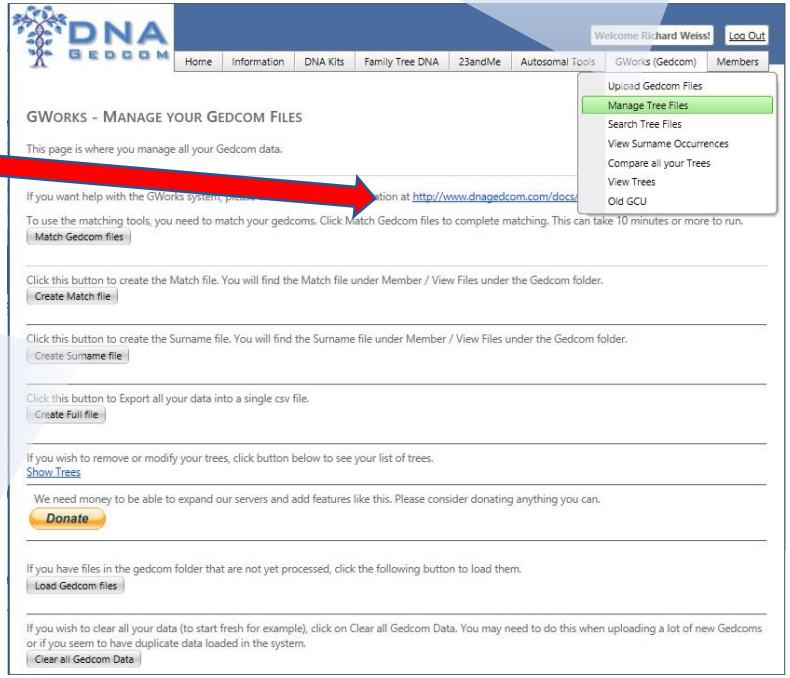


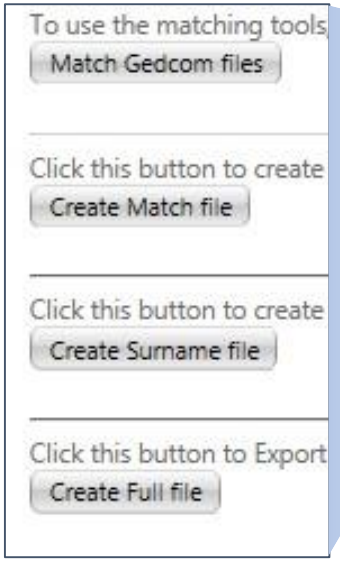
Patience!!!!

Welcome to DNAGedcom

- Process GWORKS
  - Complete before using GWORKS
- Get Help
  - **User Guide**
  - DNAGEDCOM Users FB Group



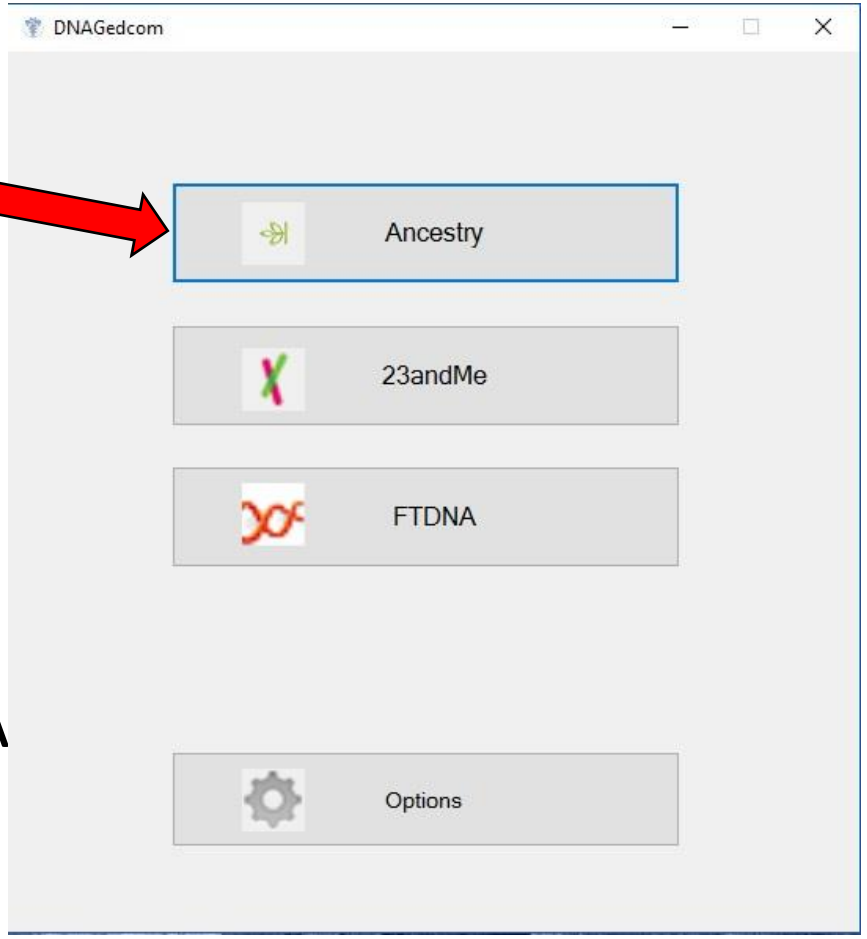




Patience!!!!

Welcome to DNAGedcom

- Gather Ancestry
  - Select Ancestry
  - Can Take a Very Long Time
    - Hours / Day
  - Match's Trees
  - Match's Limited DNA
    - No Segments



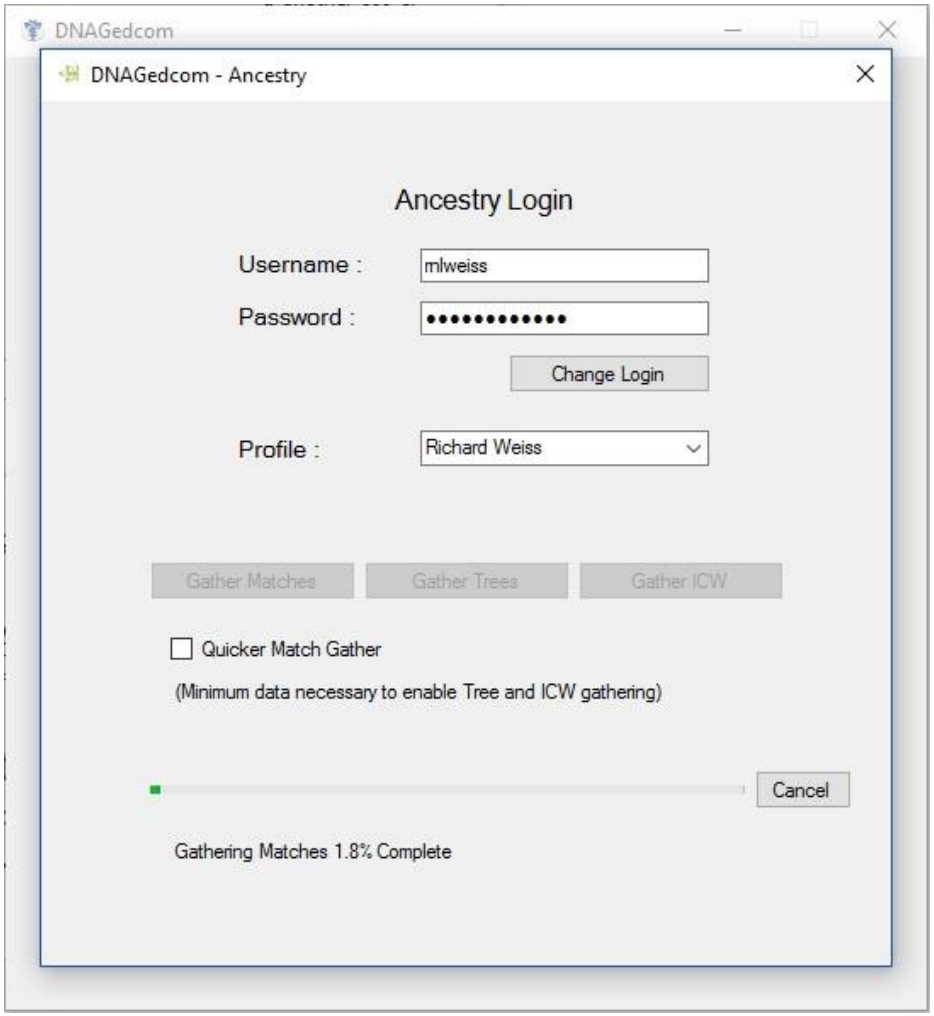
- Get Help
  - How To Guides
  - DNAGEDCOM Users FB Group

Patience!!!!

Welcome to DNAGedcom

❖Gather Ancestry

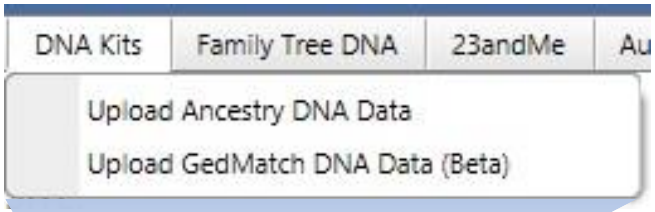
- ➢ Select Different Profiles
- ➢ Quicker Match Gather
  - ➢ 4C and Closer Matches
- ➢ Files
  - Match Info (m_ file)
  - Match's Trees (a_file)
  - Shared Matches (icw_file)
- ➢ <u>Manually upload to Any Account</u>



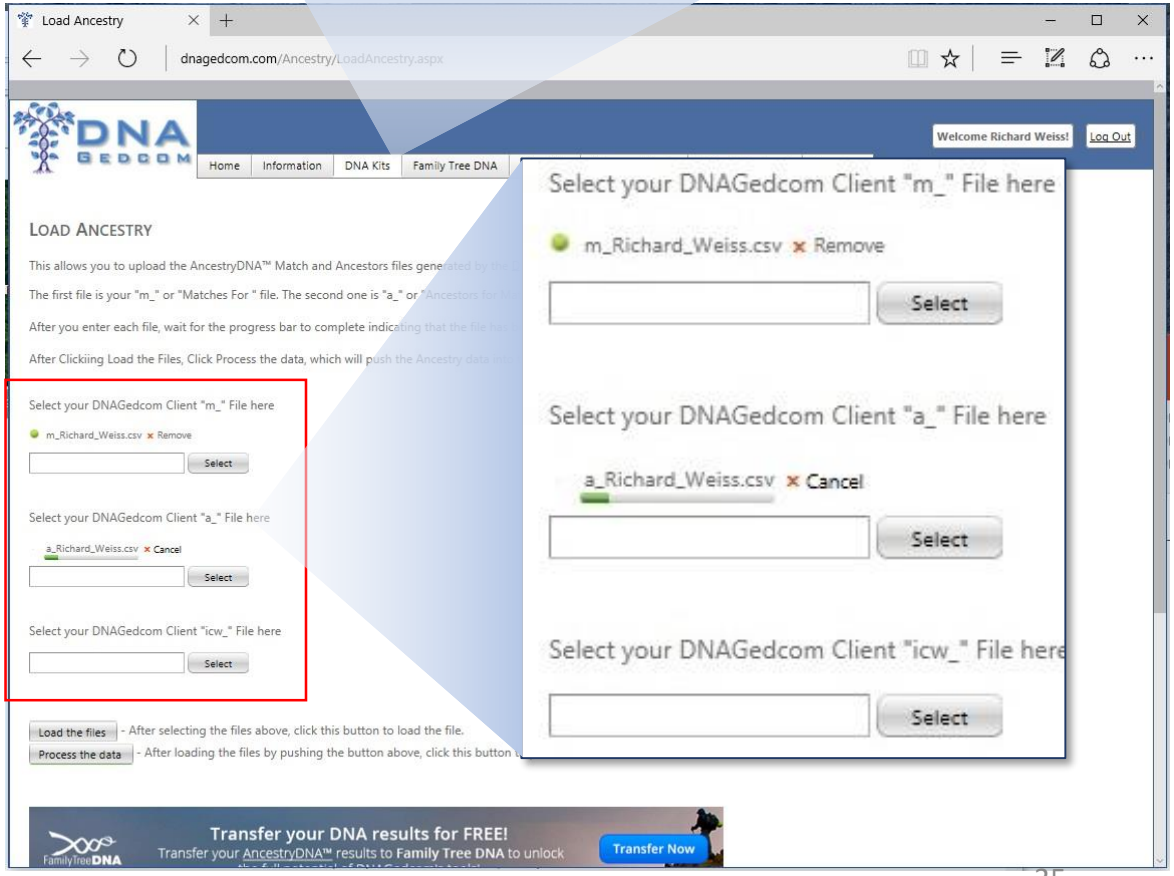
<u>Patience!!!!</u>

Welcome to DNAGedcom

❖Gather Ancestry



- ➢Manually upload to Any Account
- ➢ICW upload not enabled



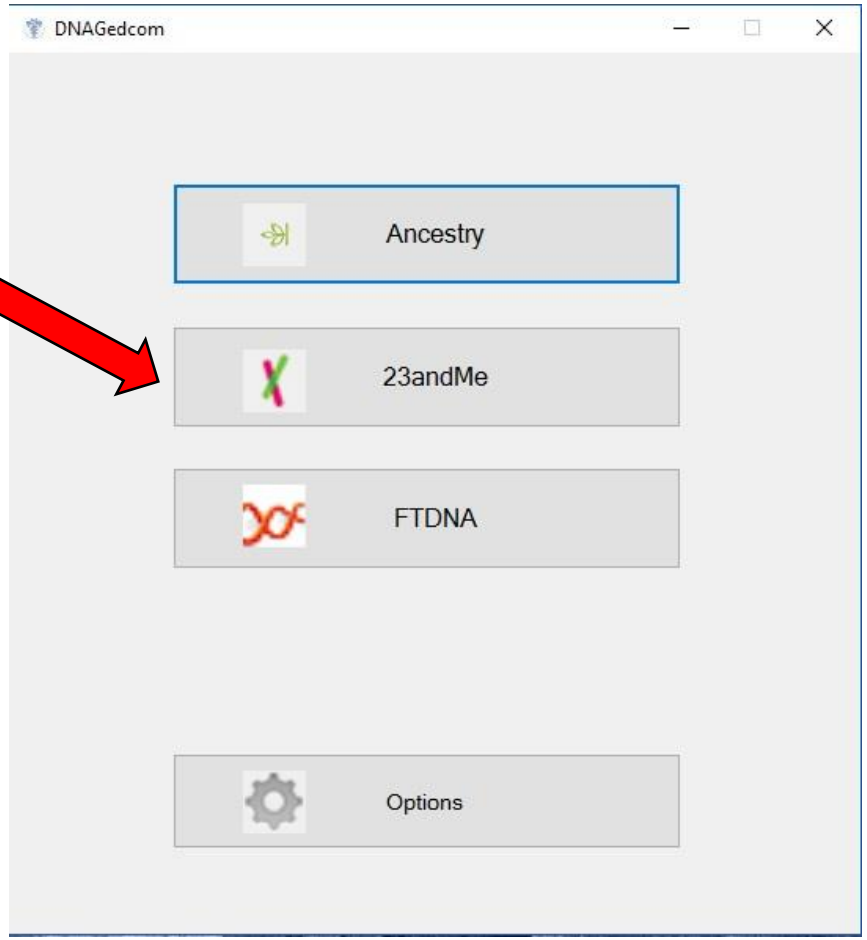
❖Get Help

- ➢How To Guide
- ➢DNAGEDCOM Users FB Group

Welcome to DNAGedcom

❖Gather 23andMe

- ➢Select 23andMe
- ➢Can Take a Very Long Time
  - Hours
  - Multiple Days
- ➢No Match's Trees
- ➢Full DNA Information



❖Get Help

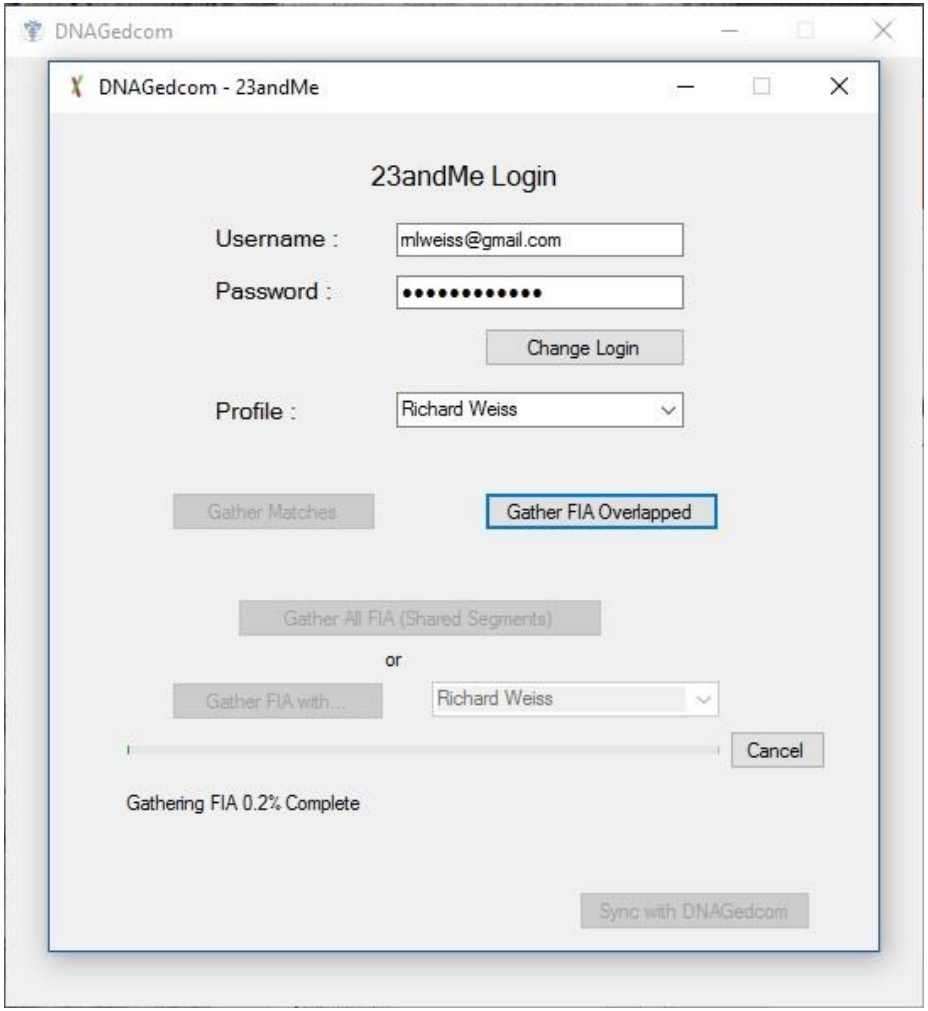
- ➢How To Guides
- ➢DNAGEDCOM Users FB Group

Patience!!!!

Welcome to DNAGedcom

❖Gather 23andMe

- ➢ <u>Only Sharing Matches</u>
- ➢ Synch with Subscribed Account
  - Generate Files for all accounts
- ➢ Manually upload to Unsubscribed accounts
- ➢ No Tree Information

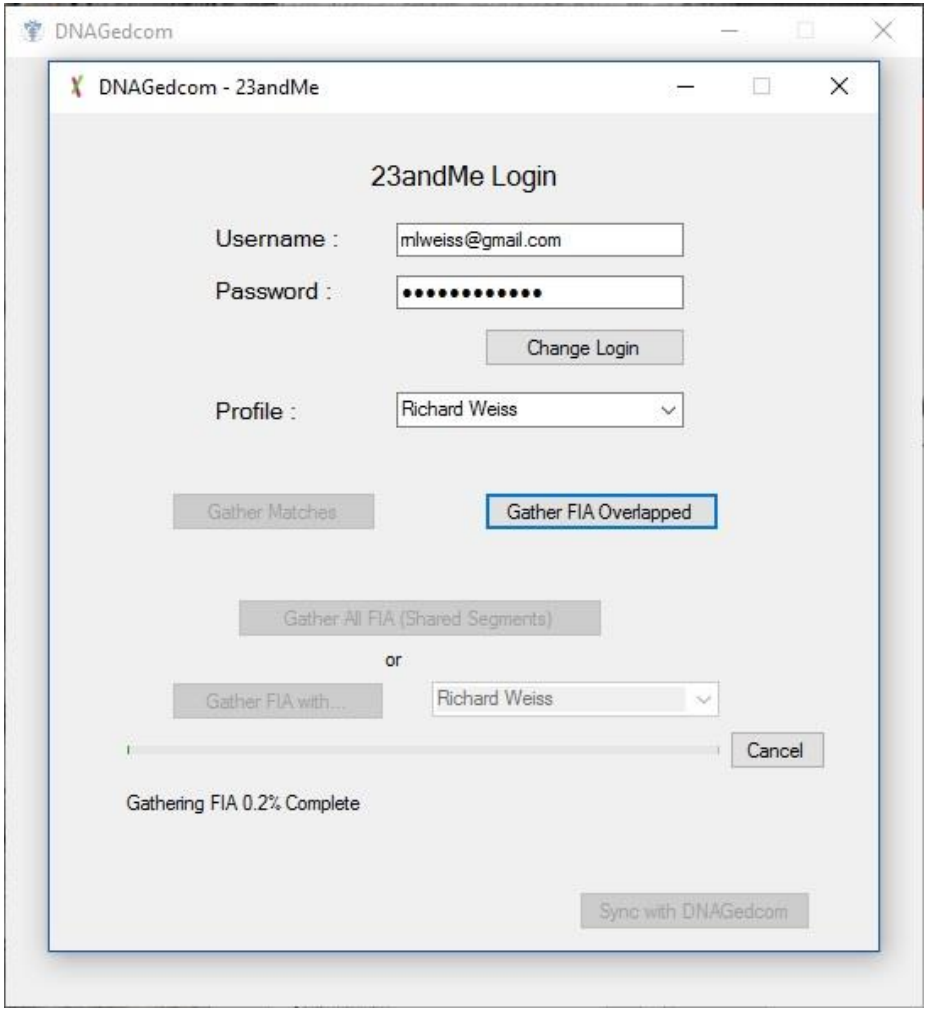


<u>Patience!!!!</u>

Welcome to DNAGedcom

❖Gather 23andMe

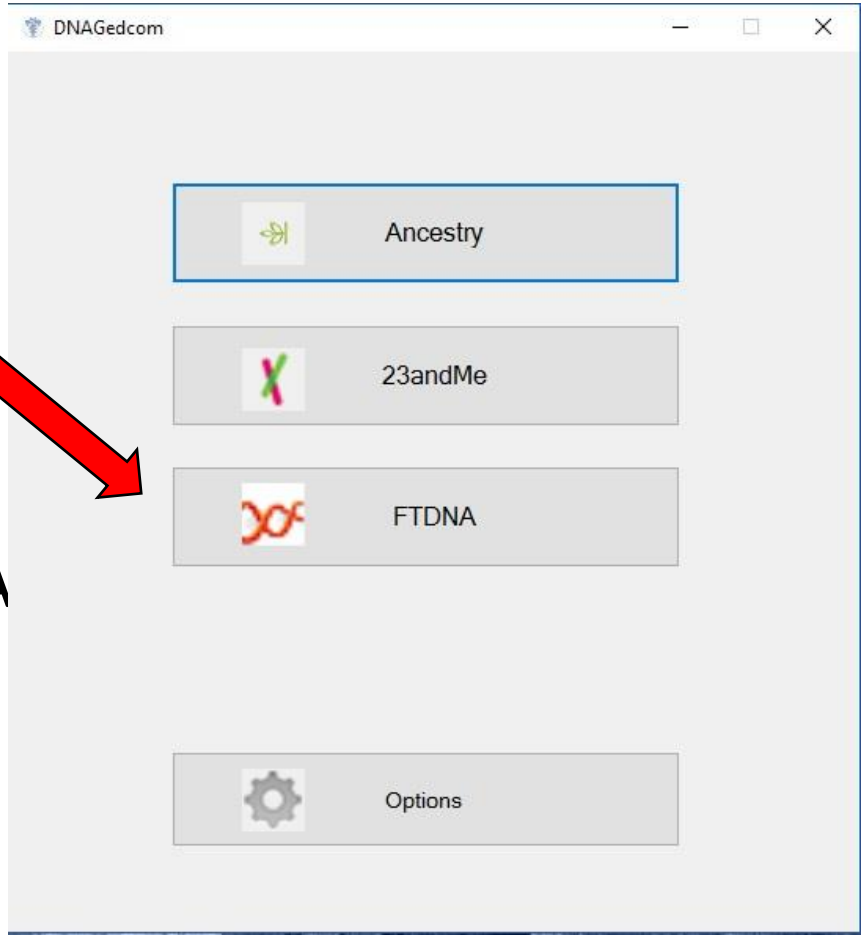
- Must Sync to Generate Files
- Files for DNAGEDCOM KWORKS/JWORKS/ADSA
  - Matches
  - Chromosome Browser
  - In Common With (ICW)
- Files for GenoMate Pro
  - *_23andMe_FIA
  - *_Overlap_23andMe_FIA
  - *_Combined_23andMe_FIA



Patience!!!!

Welcome to DNAGedcom

- Gather FTDNA
  - Select FTDNA
  - Can Take a Long Time
    - Hours / Day
  - Only Autosomal DNA
    - No Y-DNA or MT-DNA
  - Tree Download not Working - work around

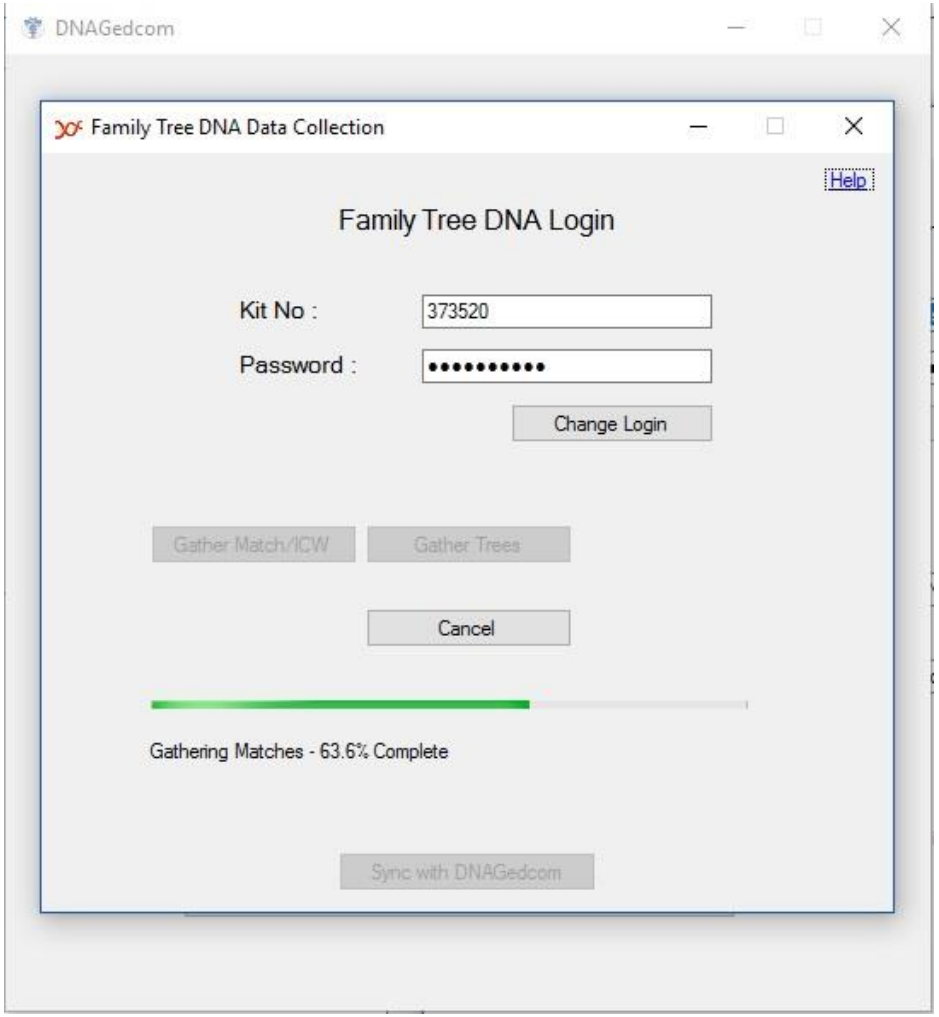


- Get Help
  - How To Guides
  - DNAGEDCOM Users FB Group

Welcome to DNAGedcom

❖Gather FTDNA

- Files for DNAGEDCOM KWORKS/JWORKS/ADSA
  - Matches
  - Chromosome Browser
  - In Common With (ICW)
- Synch with Subscribed Account
  - Generate Files for all accounts
- Manually upload to Unsubscribed accounts



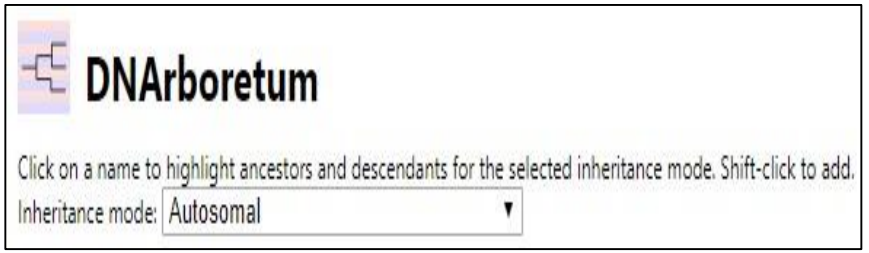
Patience!!!!

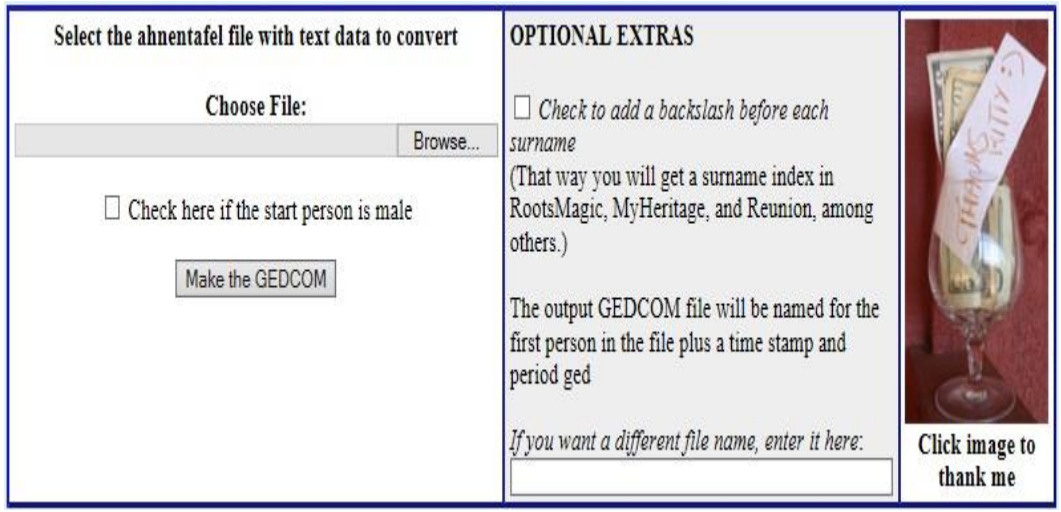
Welcome to DNAGedcom

❖Gather FTDNA

Tools are Not from DNAGEDCOM

- ➢ Trees Work Around
  - DNA Arboretum Chrome Extension
  - Ahen2GED Tool
  - GEDcom File
- ➢ One at a Time
- ➢ Manually Upload GEDCOM to DNAGEDCOM





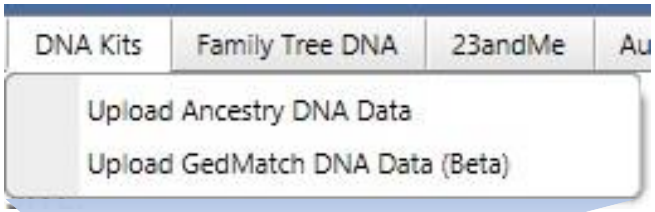
❖Get Help

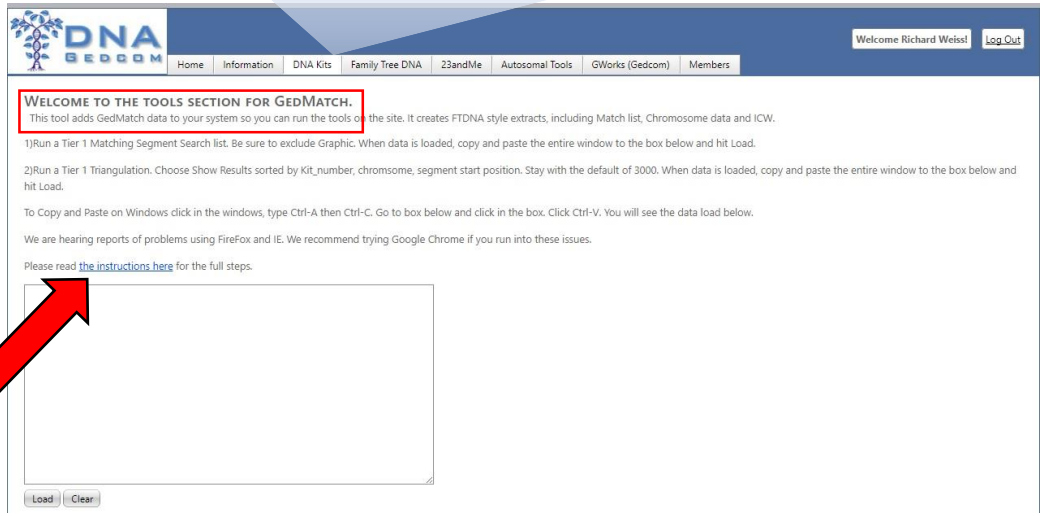
- ➢ Kitty Cooper Blog

Welcome to DNAGedcom

❖Gather GEDMatch

- ➢Matching Segments
- ➢Triangulation
- ➢Manually upload to DNAGEDCOM





❖Get Help

- ➢How To Guide
- ➢DNAGEDCOM Users FB Group

Best Practice: Run GEDMatch's Matching Segments and Triangulation at same time

DNAGedcom Ecosystem

- Lots of people are creating innovative programs using the data and working with DNAGedcom to do more.
- It is the place to be to innovate from a known base
- What do you want to build?

ADSA

[redacted]
Family Tree DNA Kit # 307638
Wed, 25 Dec 2013 23:03:01 -0600

CHROMOSOME 3
24 matching segments
Longest is 39.82cMs

MATCH NAME	START	END	cMs	SNPs	EMAIL	ICW	SEGMENTS
[redacted]	36495	20091081	37.67	6988	[redacted]		37.67
[redacted]	36495	21691239	39.60	7488	[redacted]		39.60
[redacted]	36495	3023519	7.70	1288	[redacted]		7.70
[redacted]	36495	3168676	8.24	1388	[redacted]		8.24
[redacted]	4646633	21691239	28.02	5500	[redacted]		28.02
[redacted]	8271654	15570297	13.28	2700	[redacted]		13.28
[redacted]	9202644	21691239	16.14	3700	[redacted]		16.14
[redacted]	22669782	30515440	11.17	2200	[redacted]		11.17
[redacted]	22669782	62538928	39.82	10000	[redacted]		39.82
[redacted]	64242929	72211754	11.50	2268	[redacted]		11.50
[redacted]	106987997	139142293	31.37	7800	[redacted]		31.37
[redacted]	106987997	139142293	31.37	7800	[redacted]		31.37
[redacted]	126636581	135038190	8.40	2000	[redacted]		8.40
[redacted]	135287418	165727113	26.11	6588	[redacted]		26.11
[redacted]	147143052	154352052	8.58	1788	[redacted]		8.58
[redacted]	151924307	172907090	15.86	4000	[redacted]		15.86
[redacted]	151924307	177505329	23.26	5100	[redacted]		23.26
[redacted]	167169021	173746066	8.17	1300	[redacted]		8.17
[redacted]	173400409	178352192	8.03	1200	[redacted]		8.03
[redacted]	173400409	178352192	8.03	1200	[redacted]		8.03
[redacted]	179299304	197952000	32.79	4600	[redacted]		32.79
[redacted]	179299304	195756724	29.08	4113	[redacted]		29.08
[redacted]	185772676	189629968	8.87	1132	[redacted]		8.87
[redacted]	192770892	196058186	7.70	795	[redacted]		7.70

Genome Mate Pro

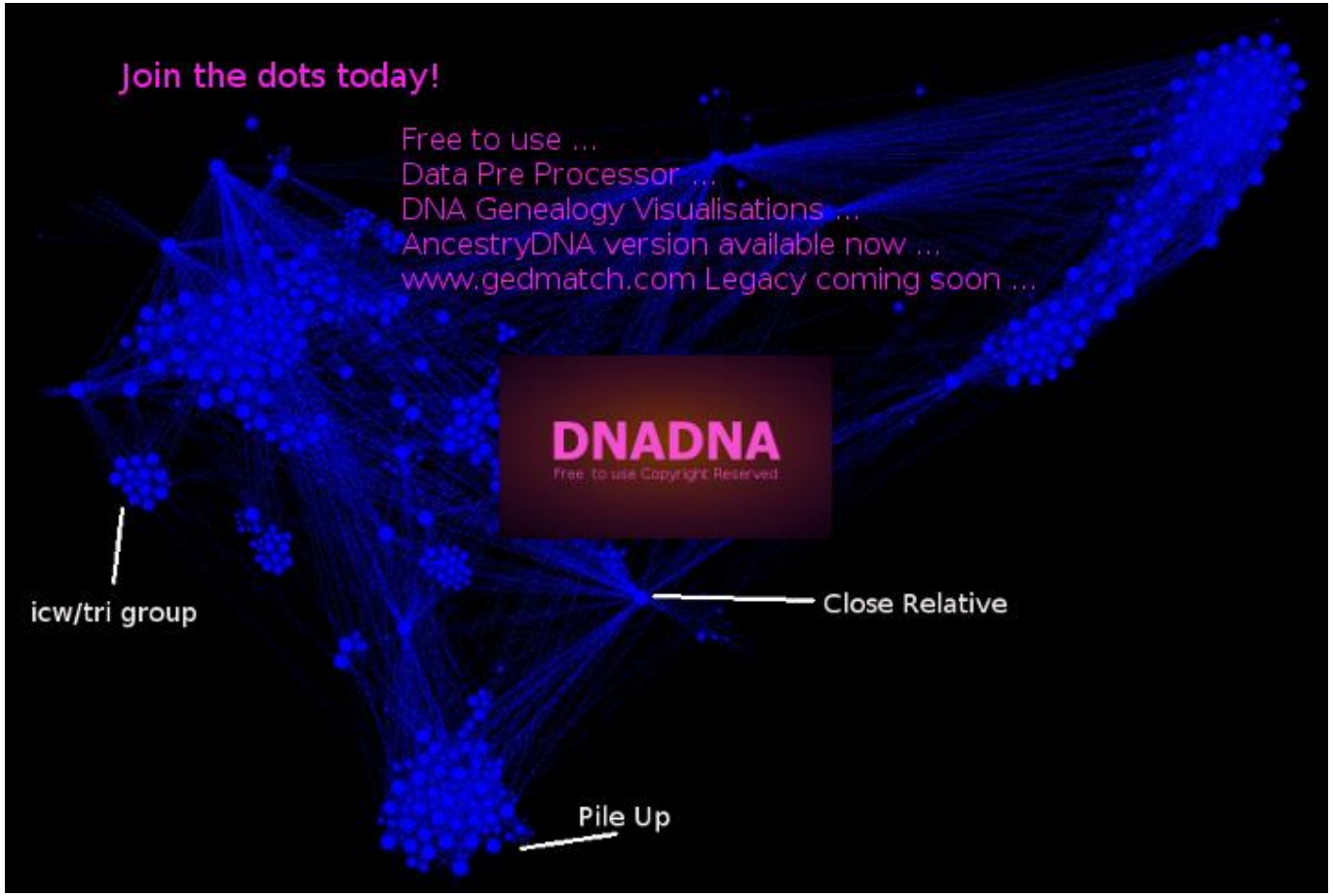
Shelley Crawford's Twigs of Yore

Twigs of Yore

- Based on Excel Add in NodeXL
- Find it at http://bit.ly/TwigsDG (https://twigsofyore.blogspot.ie/2017/07/visualising-ancestry-dna-matchesindex.html)

Welcome to DNAGedcom

DNADNA.uk



DNAGedcom Ecosystem

- Excel Spreadsheets using data from DNAGedcom Client directly
- Access Databases
- API Access coming soon

Finding Sue

- After first I4GG Sue decides it's time.
- GWorks is in major development moving from a DOS based App to a web site
- Oct 2014 in Ireland, we present our thoughts on birth father family

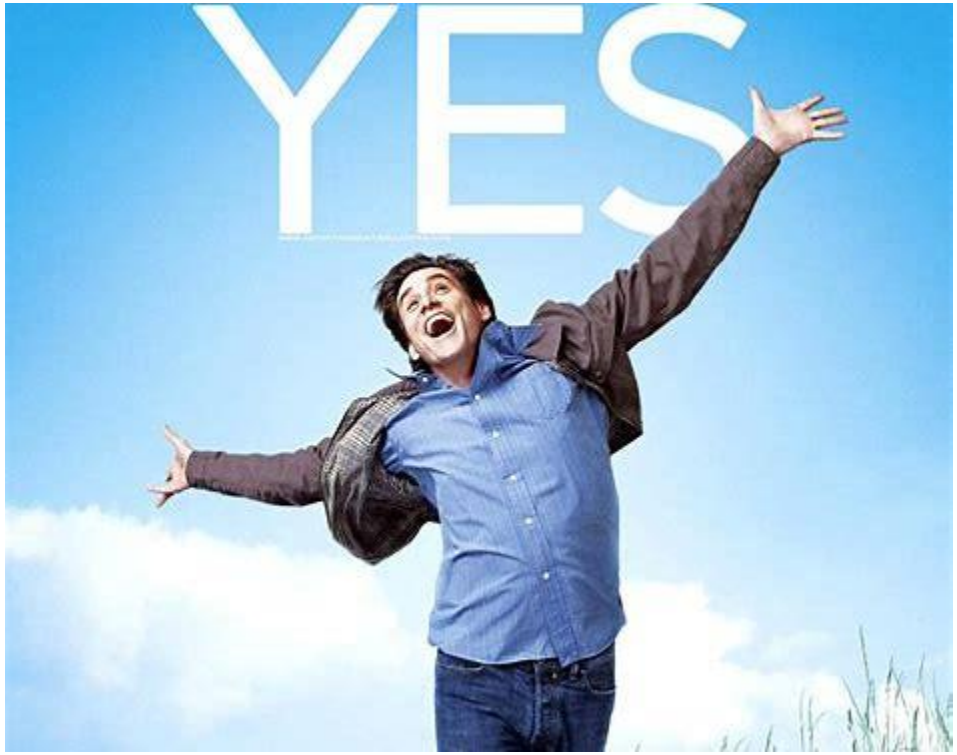
Guessing Back To Your Past Ireland Oct 2014

Great Grandparents?

Finding Sue

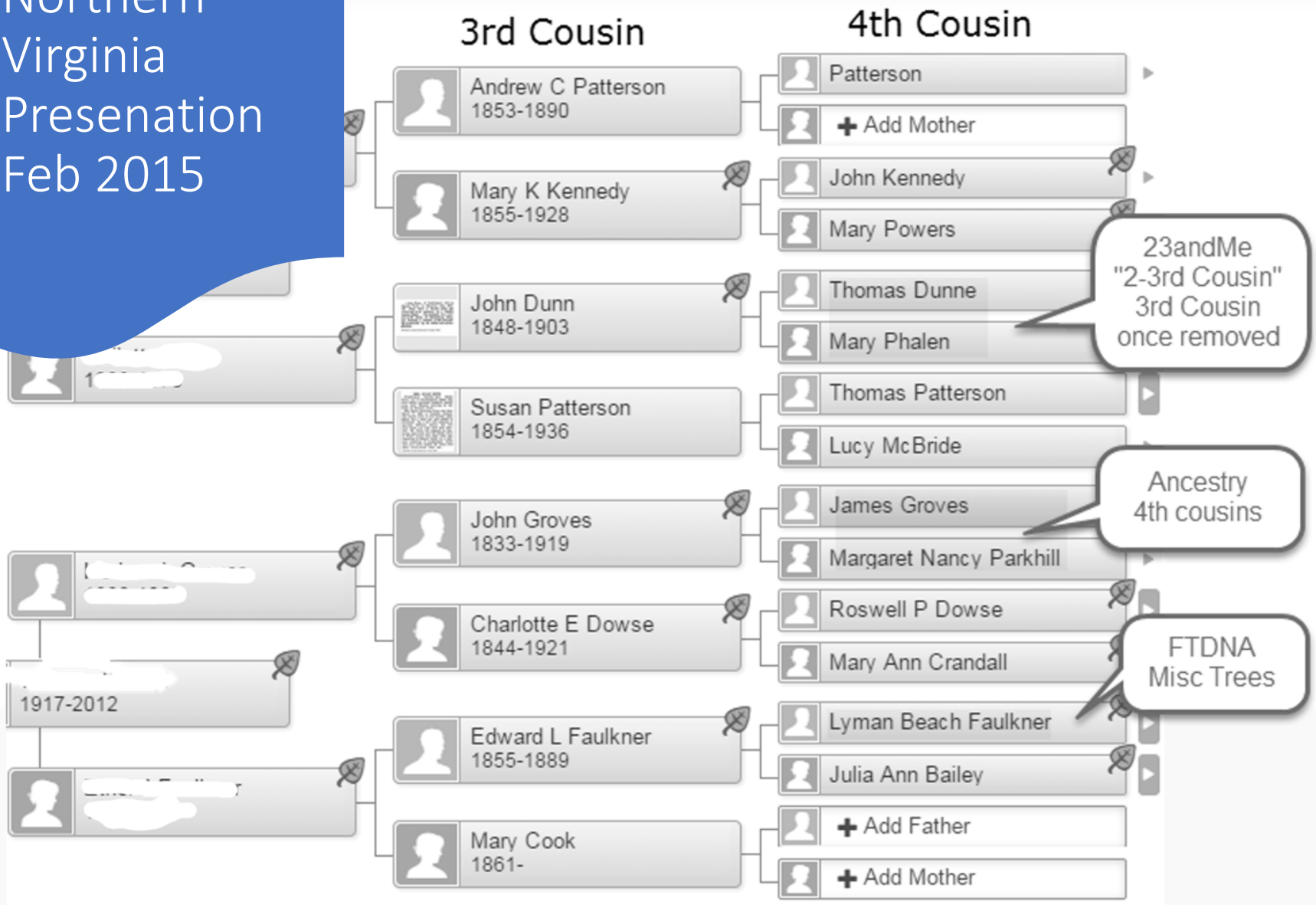
- After first I4GG Sue decides it's time.
- GWorks is in major development moving from a DOS based App to a web site
- Oct 2014 in Ireland, we present our thoughts on birth father family
- Nov 2014 Rob calls Sue (at work) to let her know he thinks he found him
- Dec 2014, the answer is confirmed with DNA

Yes we found him



Paternal Tree

The Results
Northern
Virginia
Presenation
Feb 2015

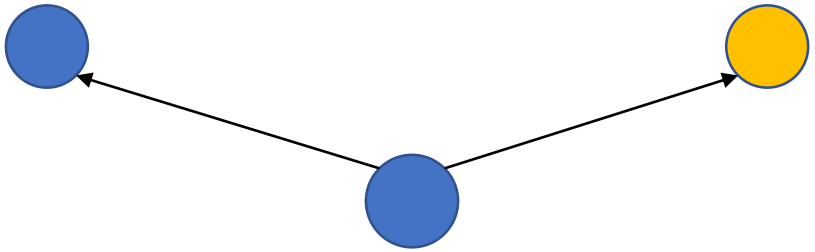


Theory

- Find a matches tree to start to hang your hook
- Work that tree back
- Bring the tree forward
- Find a new place to hang your hook
- Make sure to keep track of what lines you've worked through.

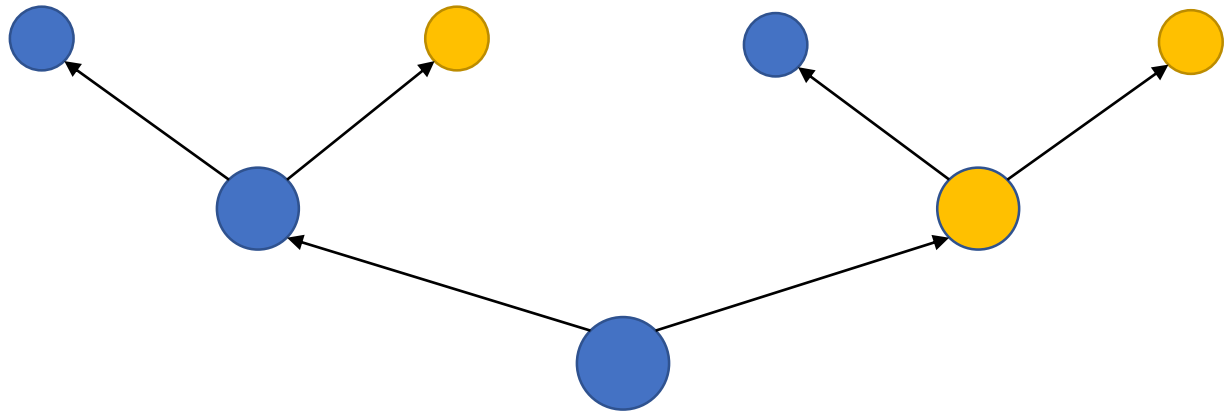
Welcome to DNAGedcom

Welcome to DNAGedcom

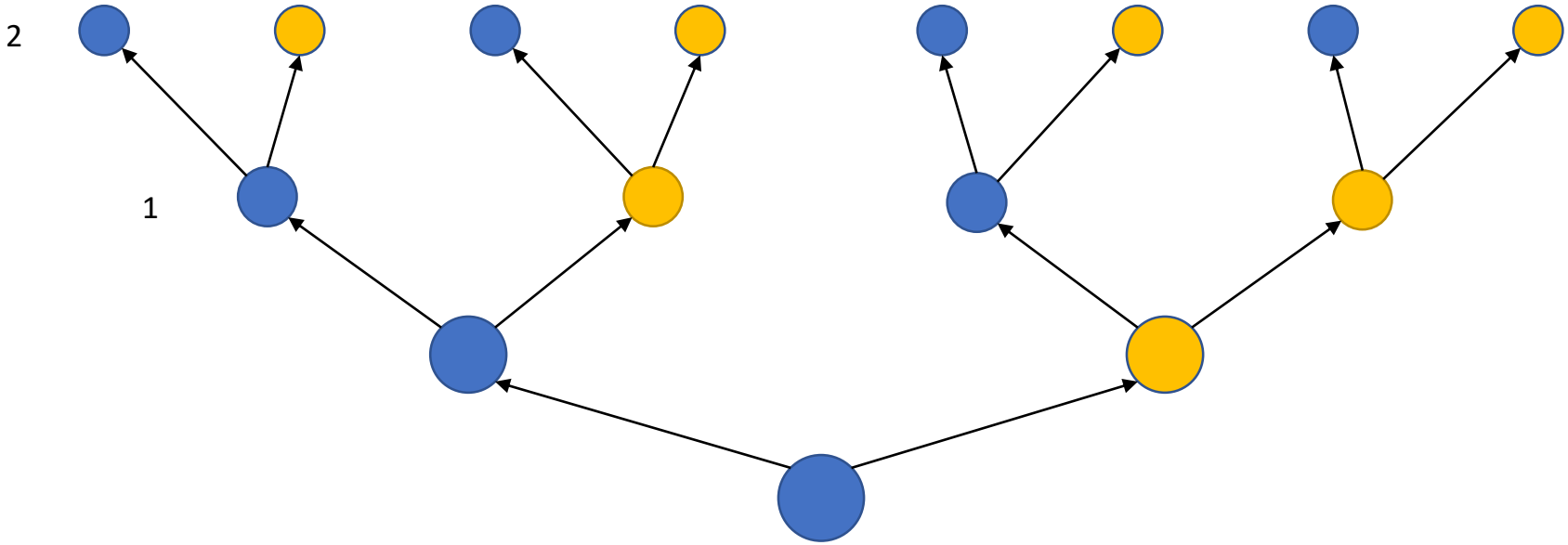


Welcome to DNAGedcom

1



Welcome to DNAGedcom



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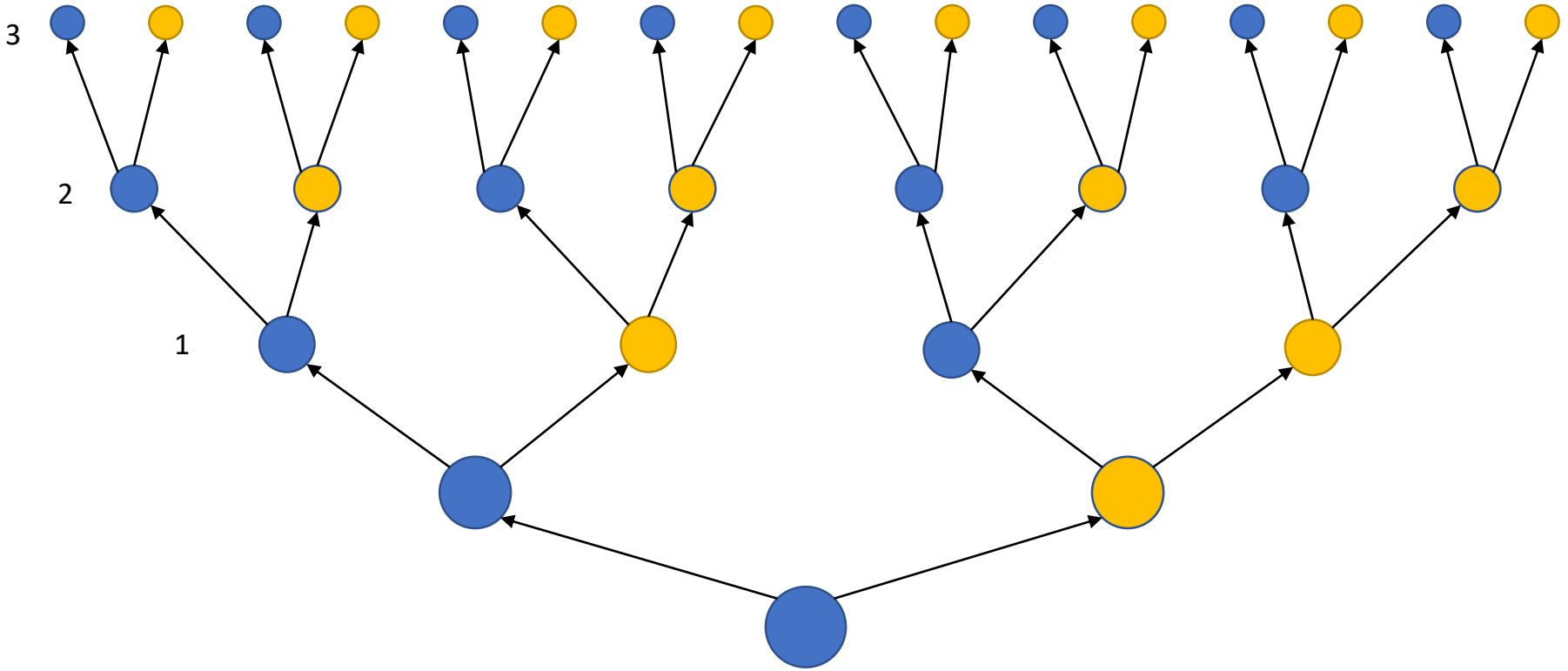

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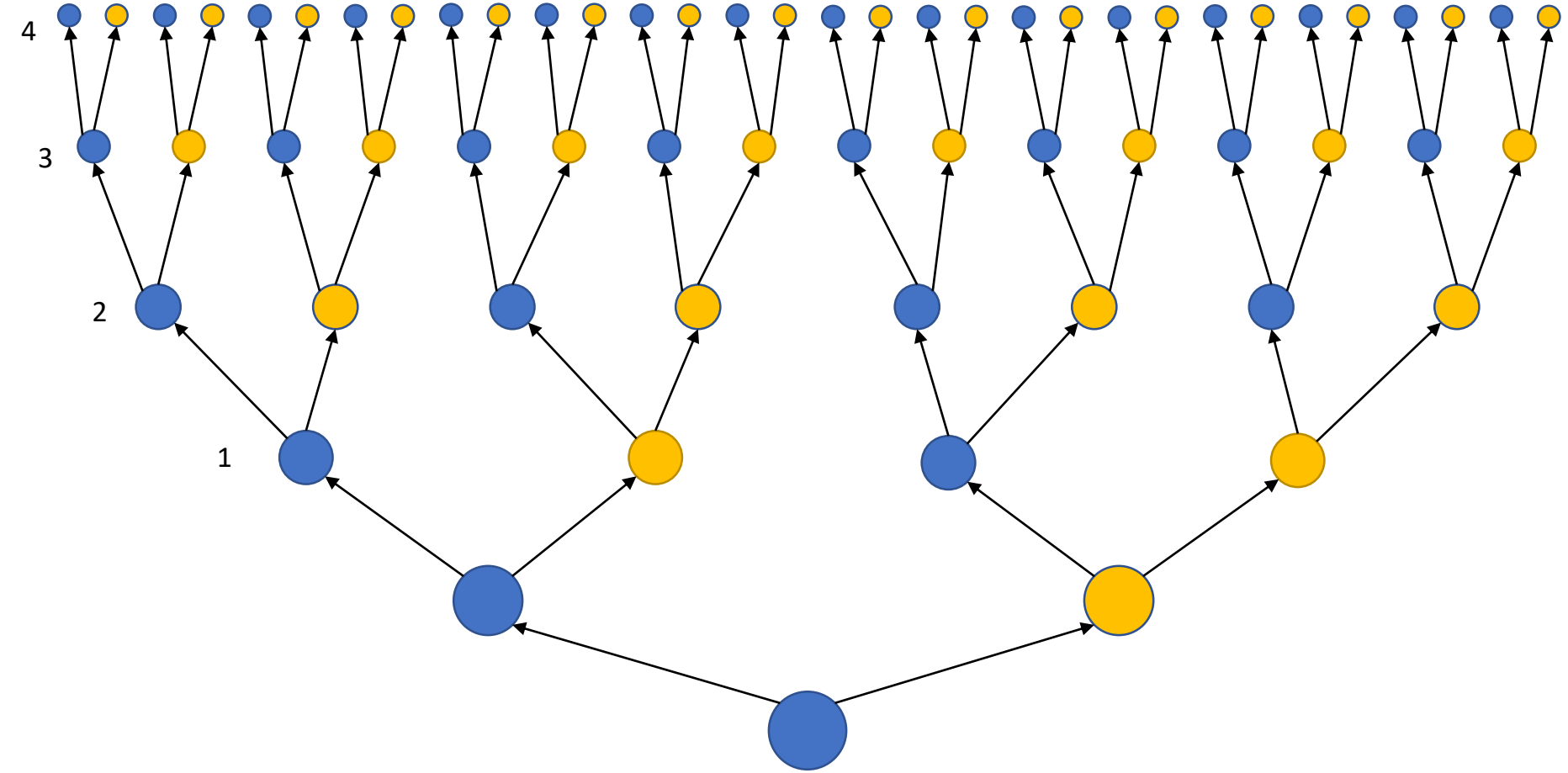

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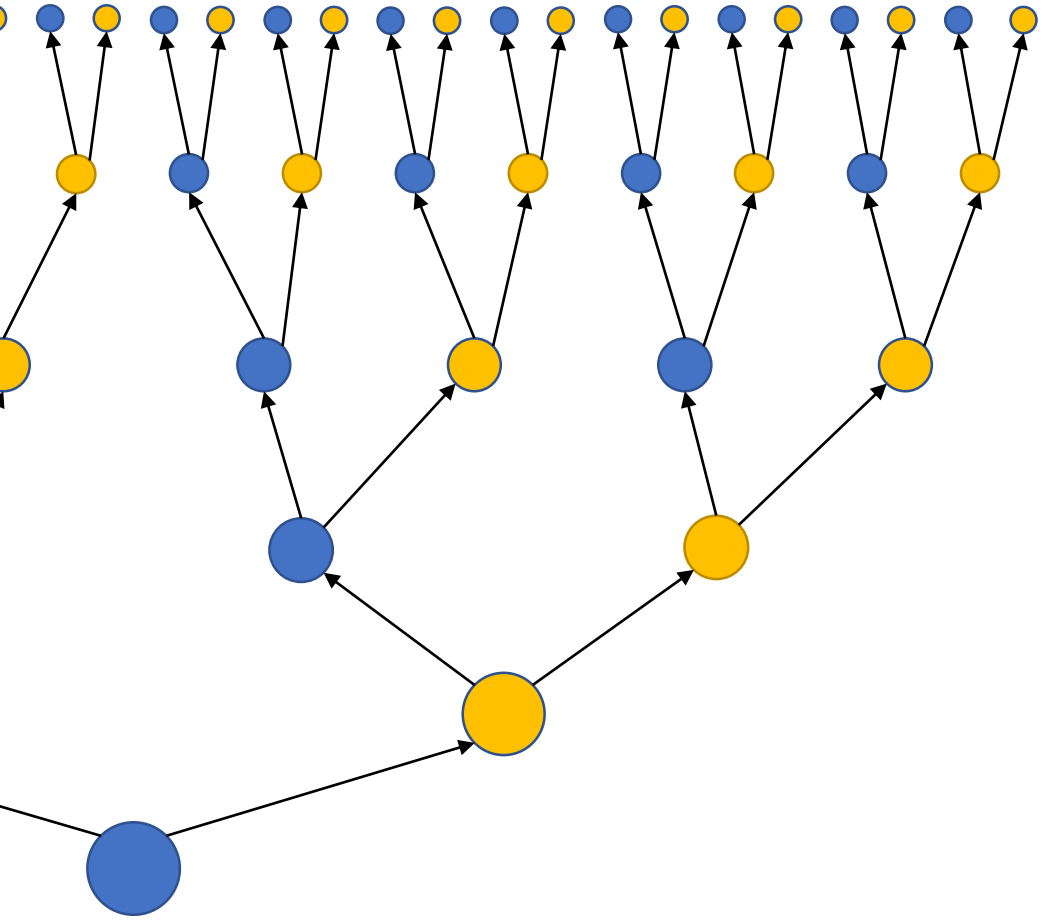

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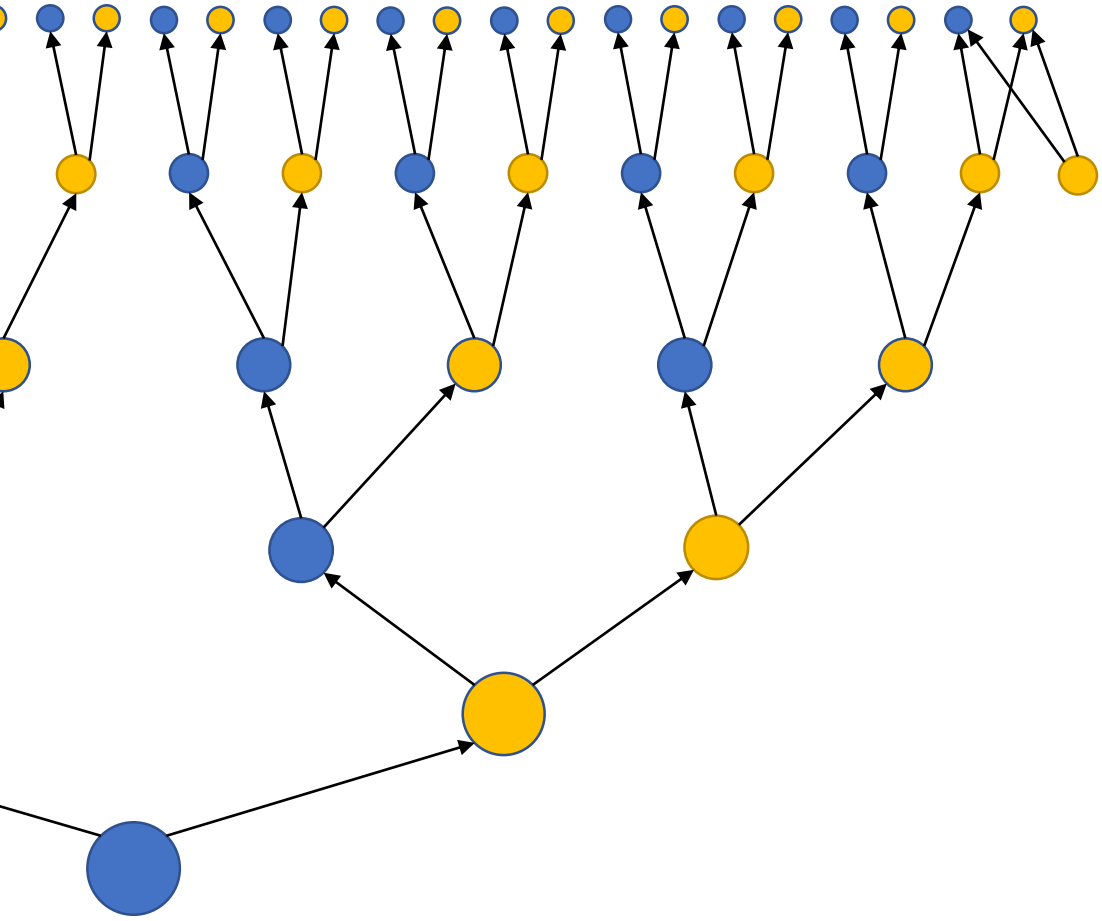

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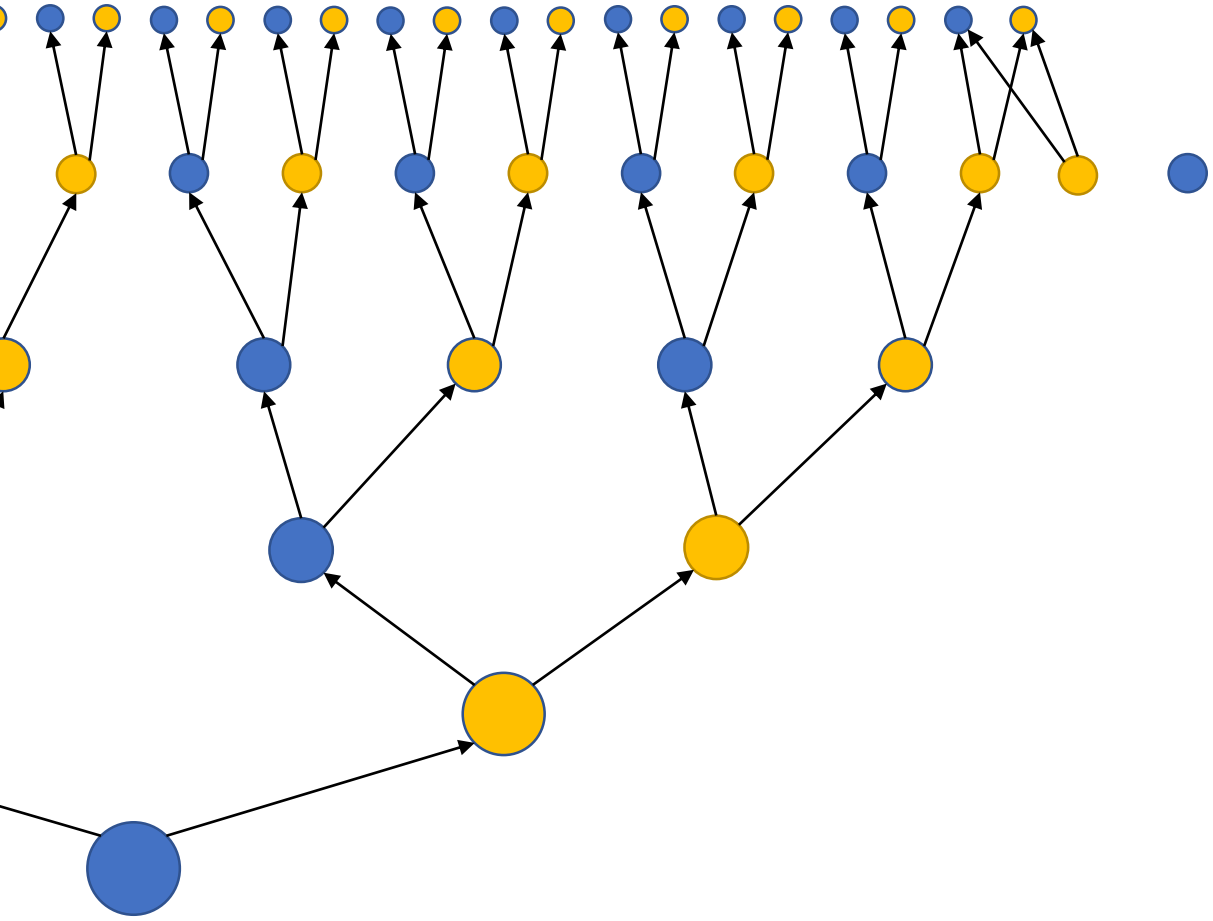

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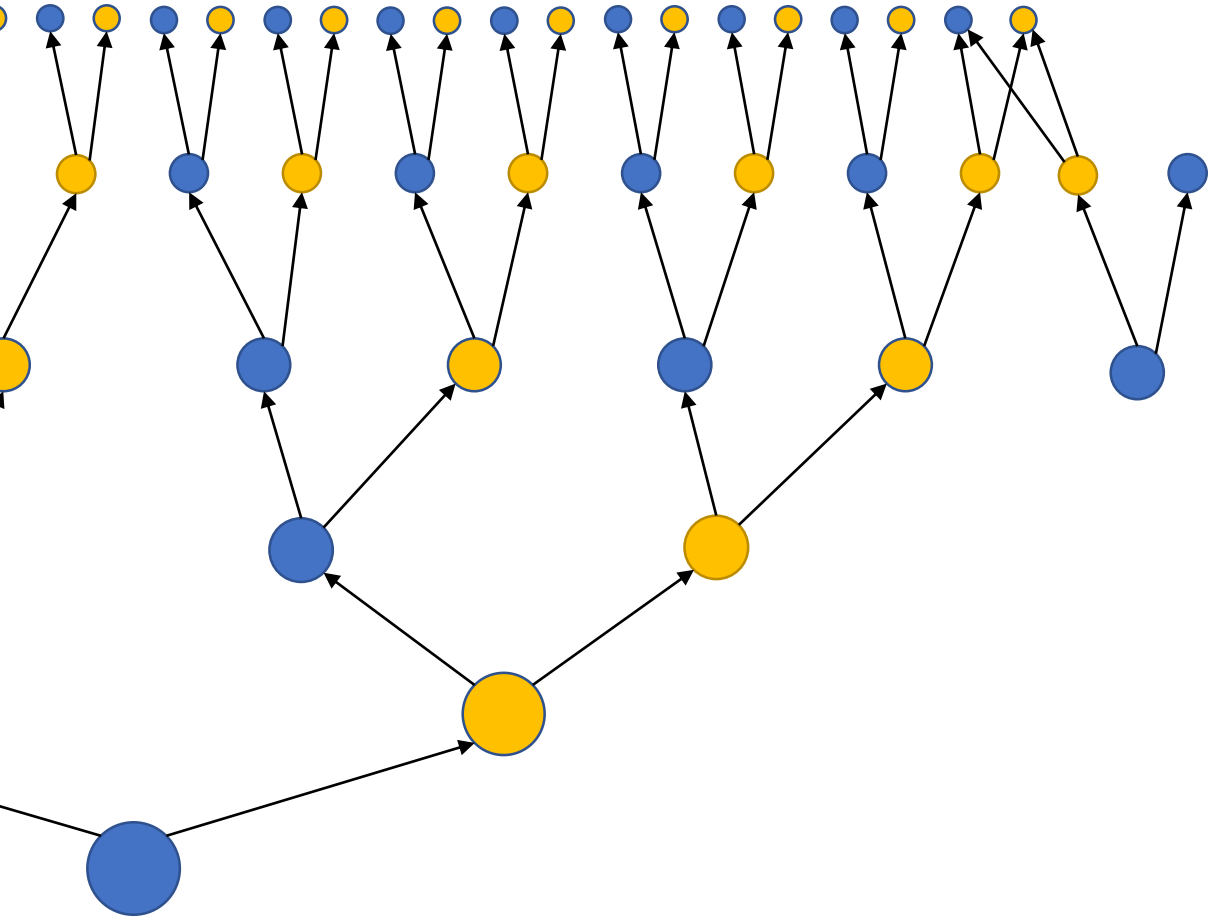

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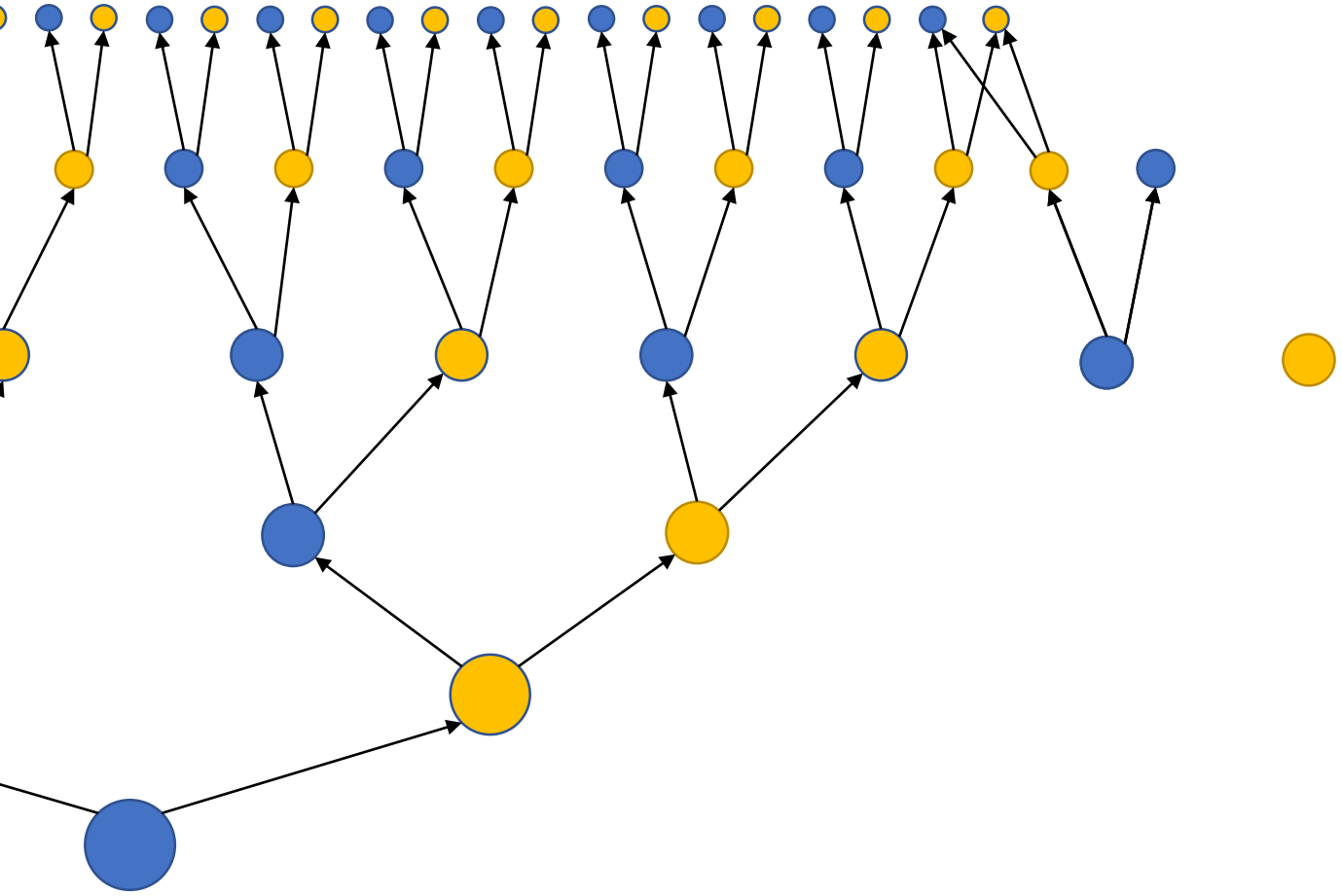

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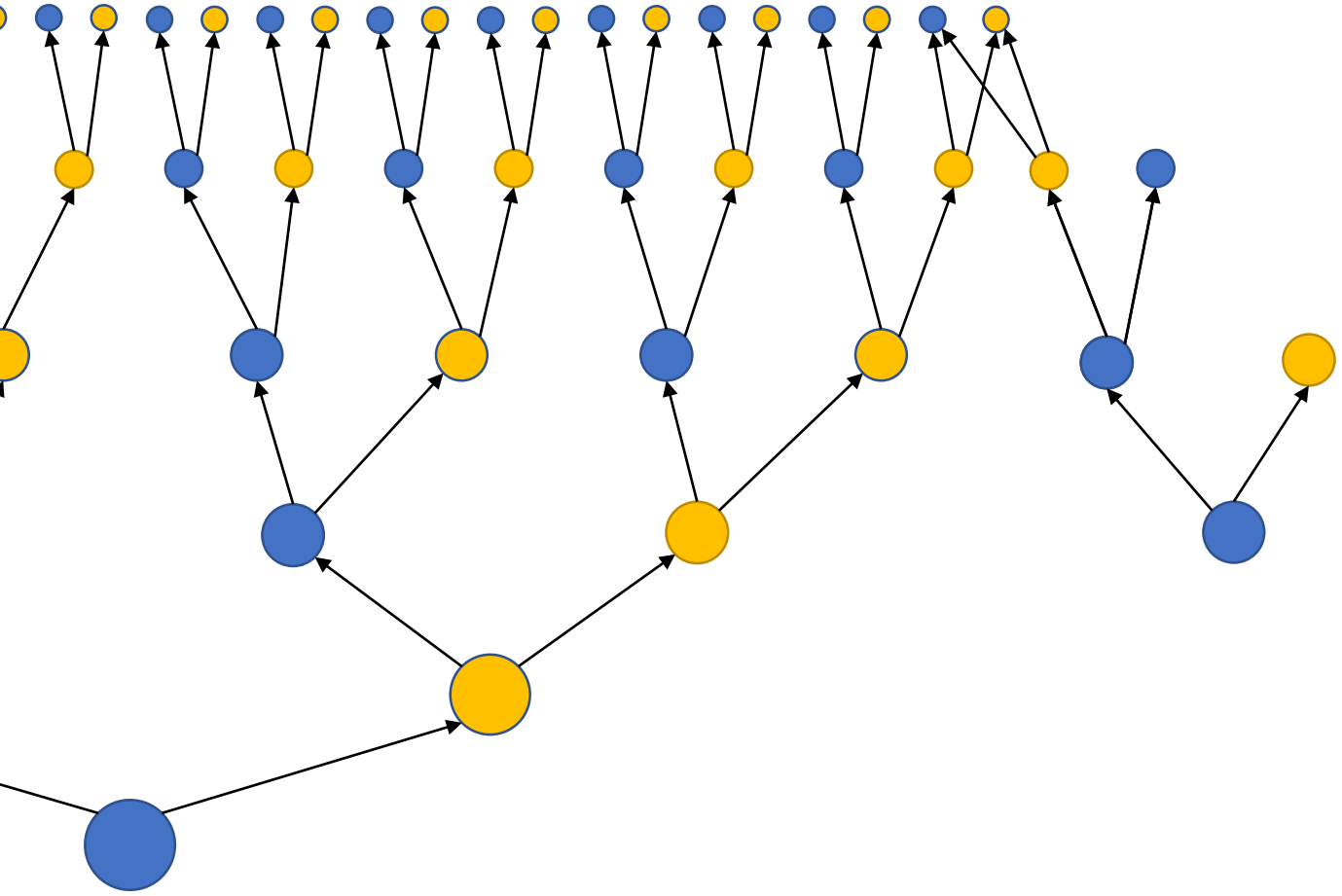

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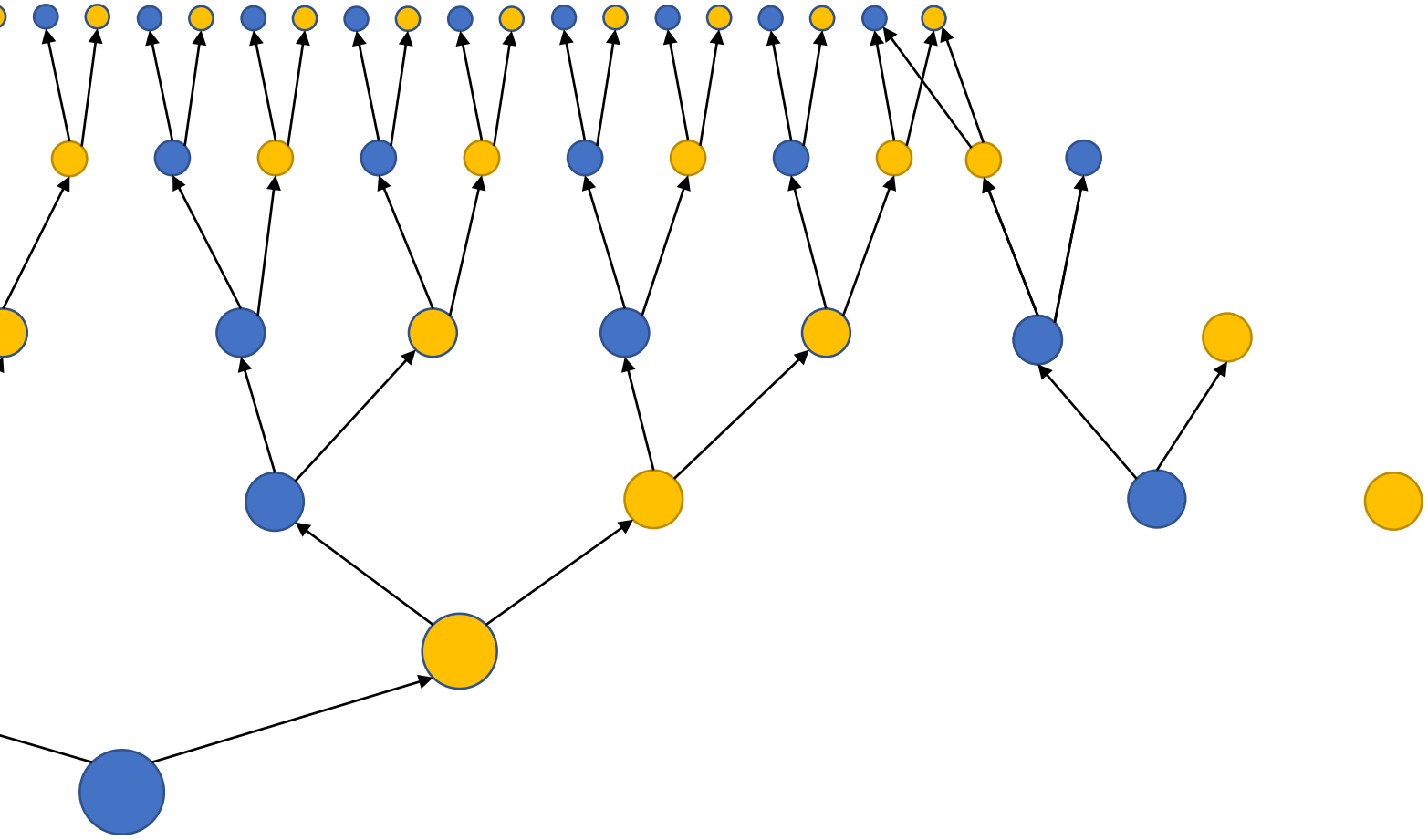

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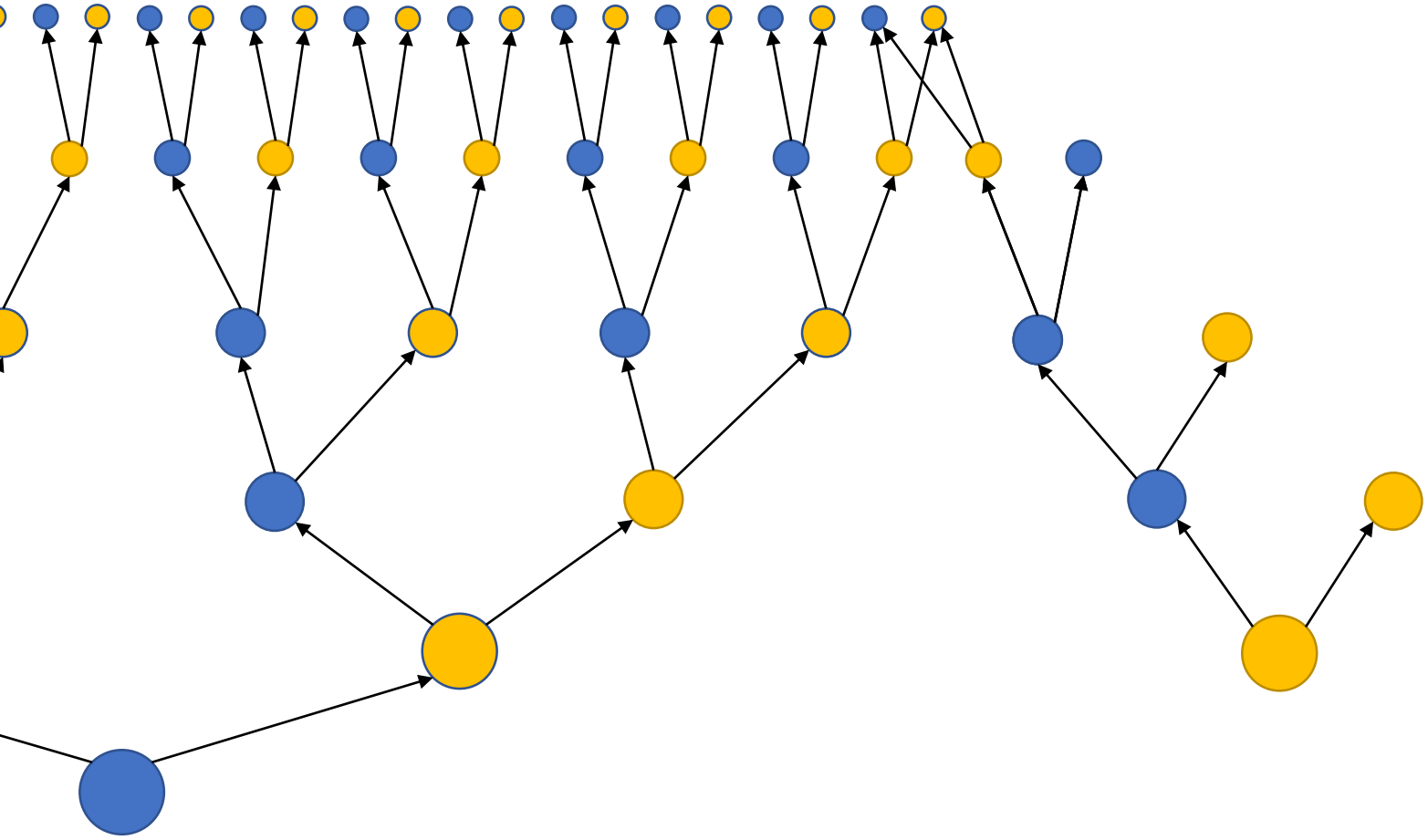

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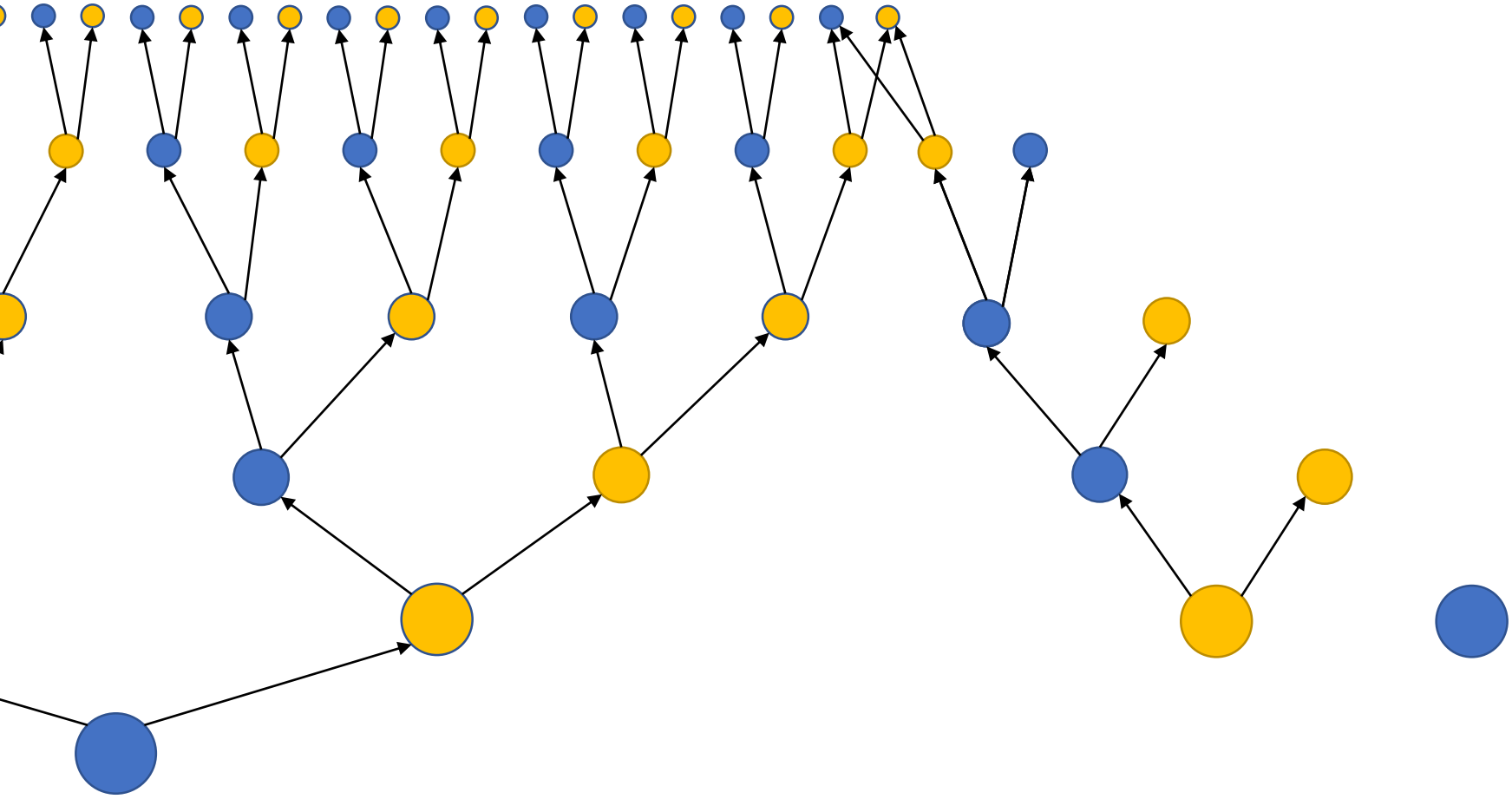

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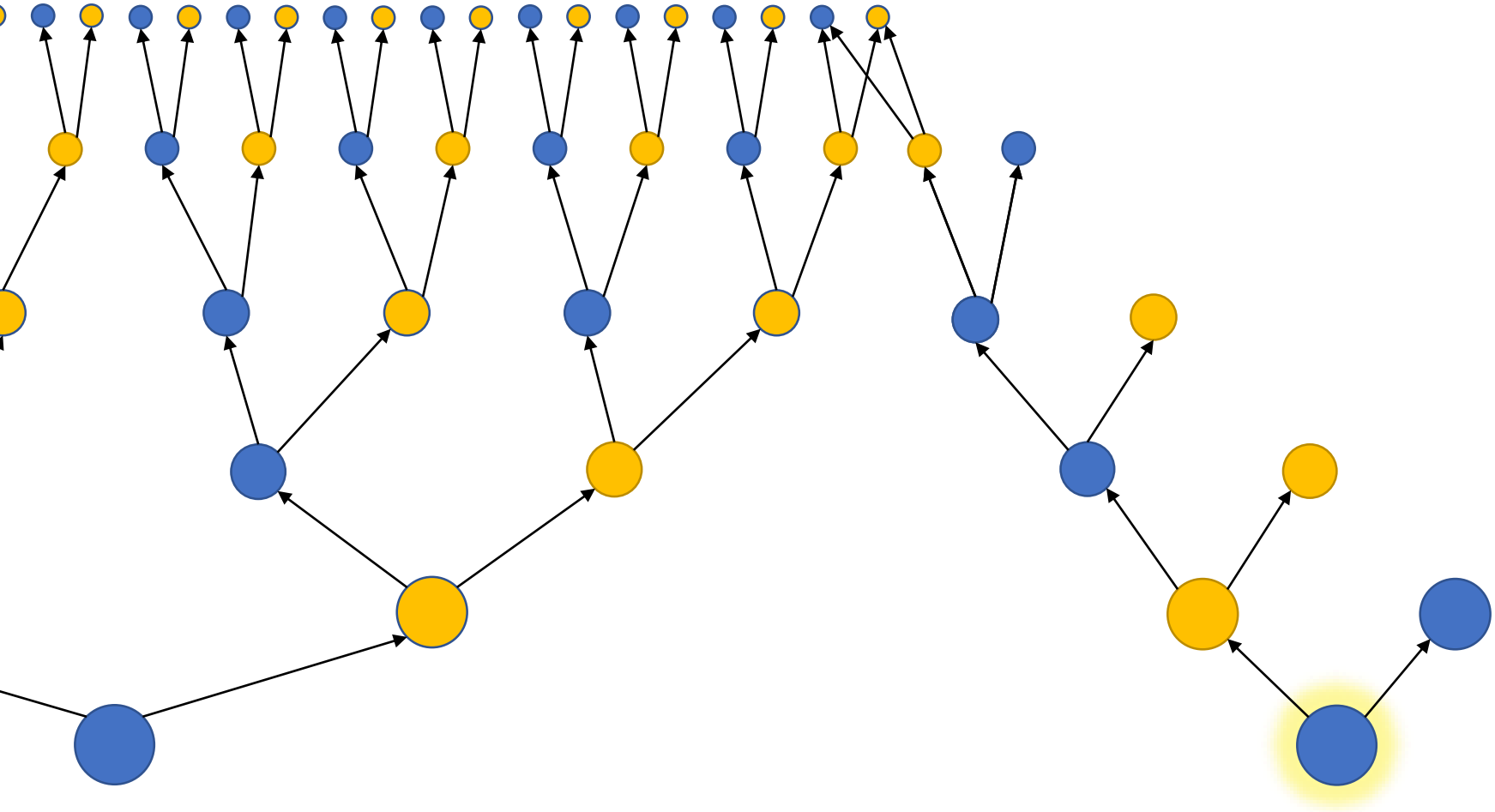

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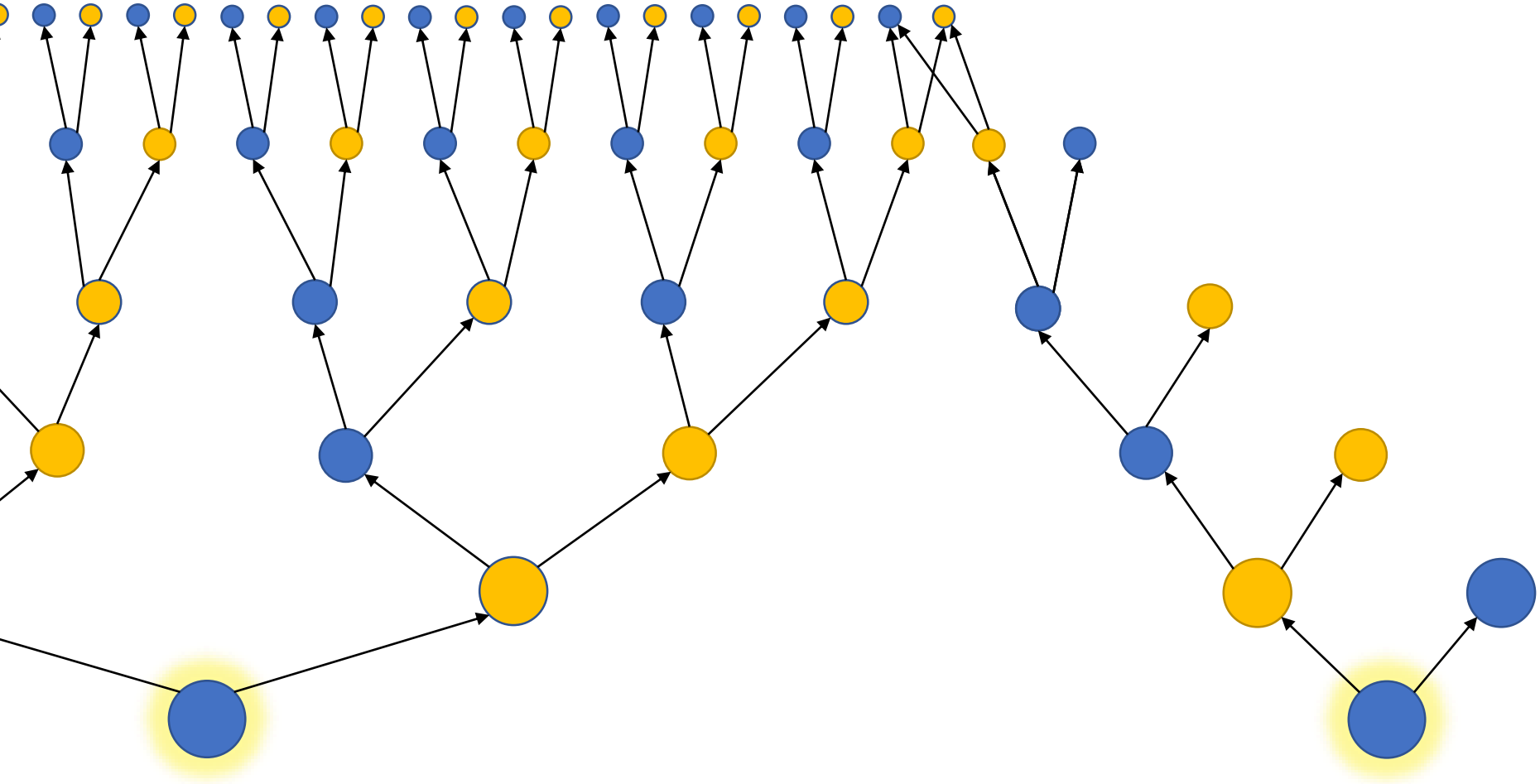

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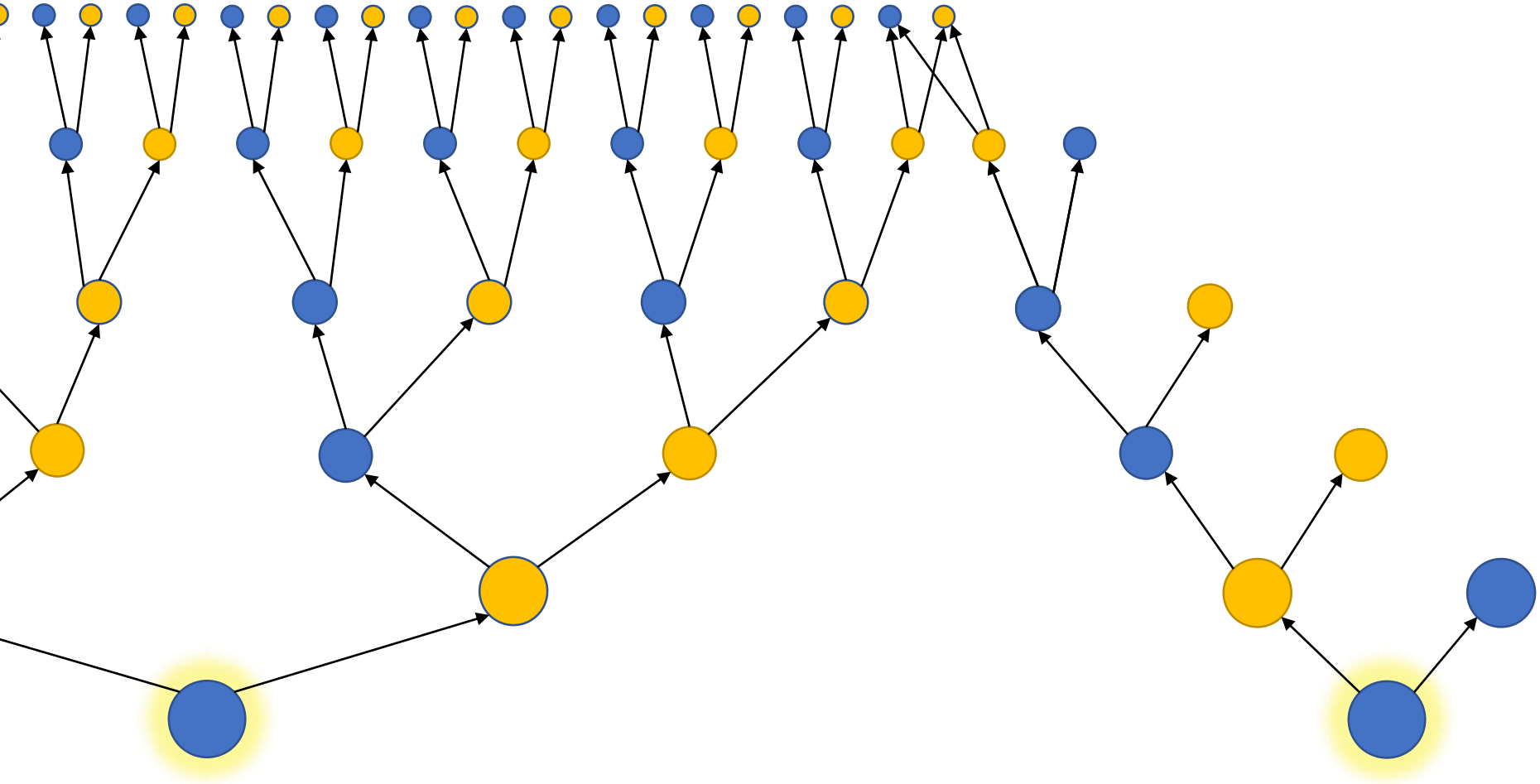

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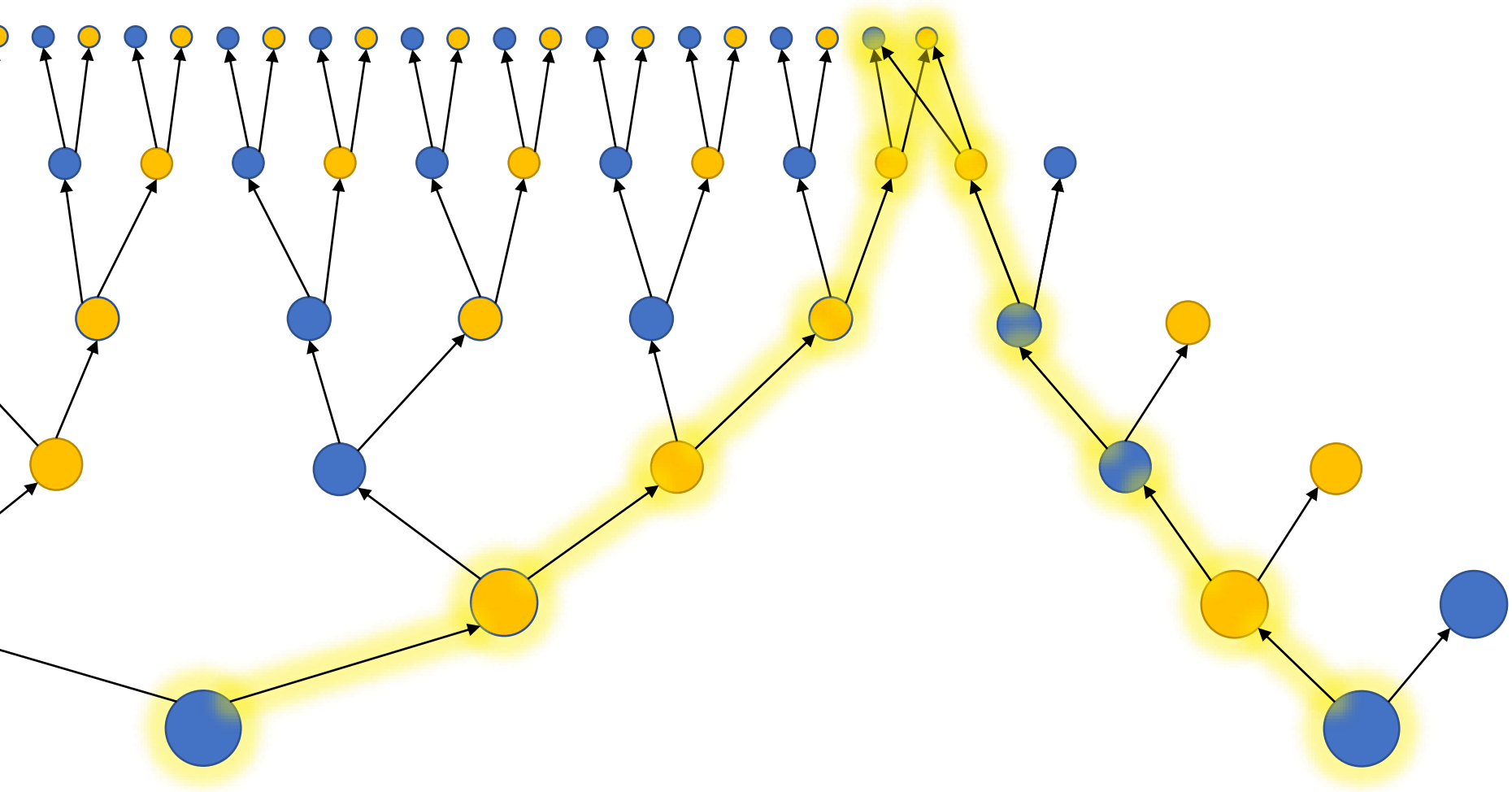


OVERVIEW & SUMMARY

0) Preparation:

DNAGedcom Client Ancestry Download
DGC FTDNA Download & Sync
DNAGecom GEDmatch Download
GEDMatch Matching Segement Search
GEDMatch Triangulation

Kitty Cooper & DNA ADOPTION

1) Identify a match of interest to investigate:

GEDmatch one-to-many
GEDmatch one-to-one
GEDmatch X one-to-one

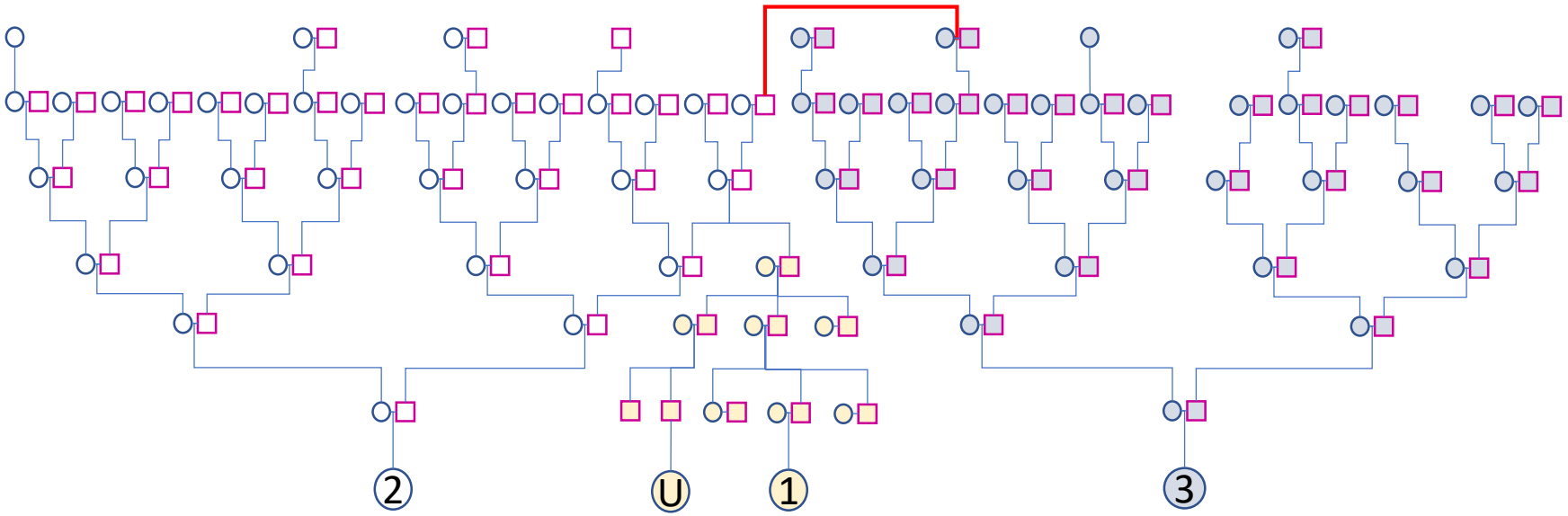
2) Identify matches that are In-Common-With (ICW) your match of interest:

GEDmatch A-Matrix
GEDmatch People Who Match Both Kits
DNAGedcom KWORKS
DNAGedcom ADSA
DNAGedcom Client Match-O-Matic
GEDmatch Triangulation Groups

3) Search the trees of your match of interest and ICW matches for a Common Ancestor:

DNAGedcom GWORKS
GEDMatch GEDCOMs
GEDMatch GEDCOM + DNA Match

GWORKS indicated "Tool" is a common surname in Middle Cousin's (2) & Distant Shared's (3) Tree
Dusty Tool is the ancestor of Middle Cousin (2), you discover she is the daughter of Broke & Bent Tool who are Distant Shared's (3) ancestors



2 = Name: Middle Cousin
70cM / 4 segment
Tested at ancestryDNA
Has GEDCOM at GEDmatch
Has tree at ancestry

1 = Name: Big Match
289cM / 47 segments
Tested at 23andMe
No GEDCOM at GEDmatch

3 = Name: Distant Shared
27cM / 1 segment
Tested at FTDNA
No GEDCOM at GEDmatch, parents in tree at FTDNA
(You build tree and upload GEDCOM)

How does GWorks Help

- Find common surnames
- Compare all your trees quickly without using Ancestry
  - Including Mirror Trees
- Find out how your matches match each other
- Quickly search your matches ancestors

Compare all your Trees

Please make sure you've ran the "Match Gedcom Files" button under the "Manage" page on GWorks after you've completed any changes.

- Enter File Name filter for match lists

Filter

Collapse All Expand All

Export to Excel

Compare Level	Surname	Given Name	Sex	Birth Date	Death Date	Files
Exact	Elder	William		1707-01-01	1775-01-01	24
Exact	Wheeler	Ann		1709-01-01	1739-01-01	19
Exact	Gerard	Catherine		1696-01-01	1753-01-01	15
Exact	Finch	Elizabeth		1687-01-01	1729-01-01	14
Exact	Elder	William		1681-01-01	1714-01-01	13
Exact	Ogle	Joseph		1707-01-01	1756-01-01	13
Exact	Elder	Guy		1731-01-01	1805-01-01	12
Exact	Lorentz	Joannes Rudolph		1668-01-01	1713-01-01	12
Exact	Reppert	Melchior		1668-01-01	1731-01-01	12
Exact	Drury	John		1669-01-01	1724-01-01	11
Exact	Felix	Joannes Theobald		1705-01-01	1777-01-01	11

“Mirror Tree” your tree

Please make sure you've ran the "M tch Gedcom Files" button under the "Manage" page on GWorks after you've completed any changes.

- Enter ile Name filter for match lists

Filter

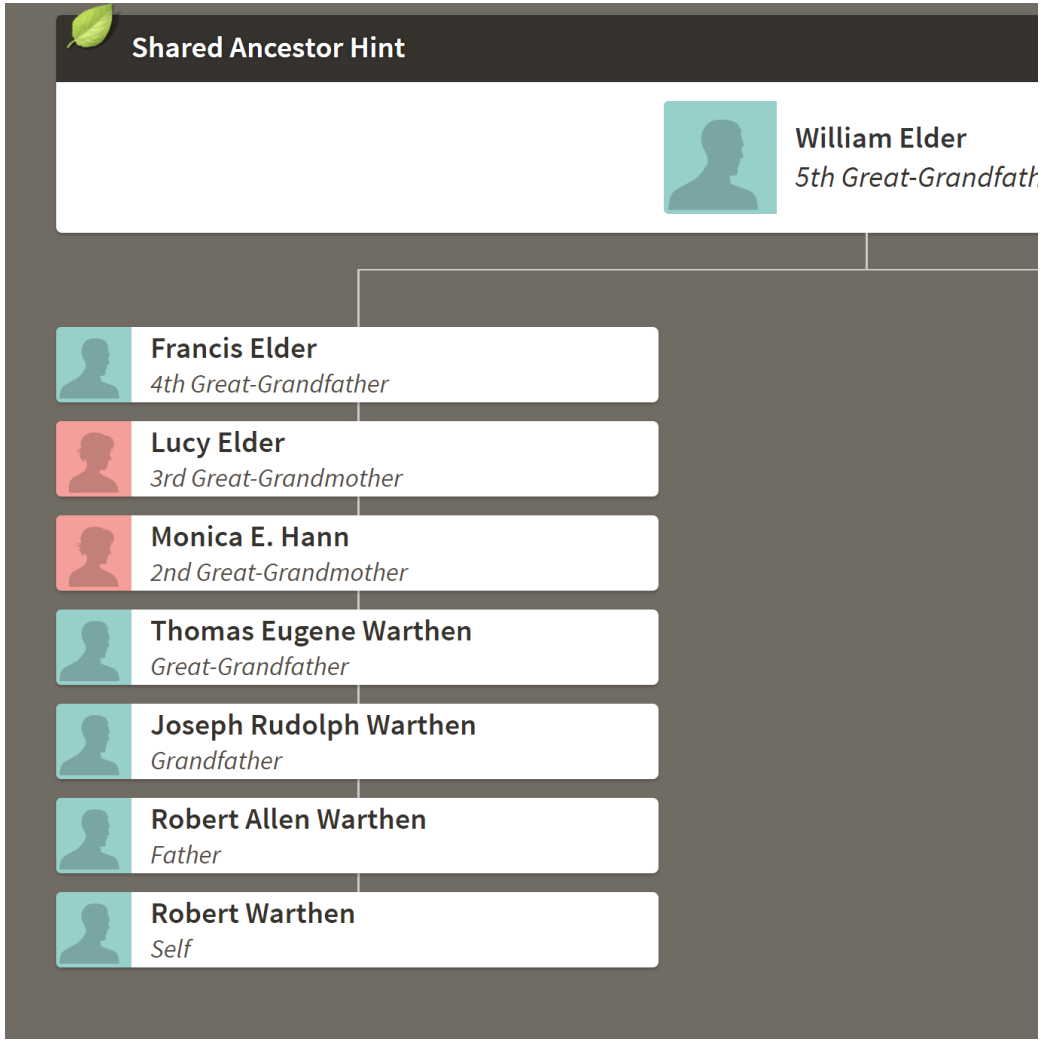
Collapse All Expand All

Export to Excel

Compare Level	Surname	Given Name	Sex	Birth Date	Death Date	Files
Exact	Elder	William		1707-01-01	1775-01-01	24
Exact	Finch	Elizabeth		1687-01-01	1729-01-01	14
Exact	Elder	William		1681-01-01	1714-01-01	13
Exact	Livers	Arnold		1669-01-01	1751-01-01	11
Exact	Livers	Jacoba Clementina		1717-01-01	1807-01-01	11
Exact	Lilly	Richard		1728-01-01	1792-01-01	7
Exact	Bennett	Esther		1699-01-01	1728-01-01	6
Exact	BOARMAN	MARY		1660-01-01	1721-01-01	6
Exact	Lilly	Samuel		1699-01-01	1758-01-01	6
Exact	Mills	John		1687-01-01	1760-01-01	6

Welcome to DNAGedcom

Guess What? William Elder IS my 5th Great-Grandfather

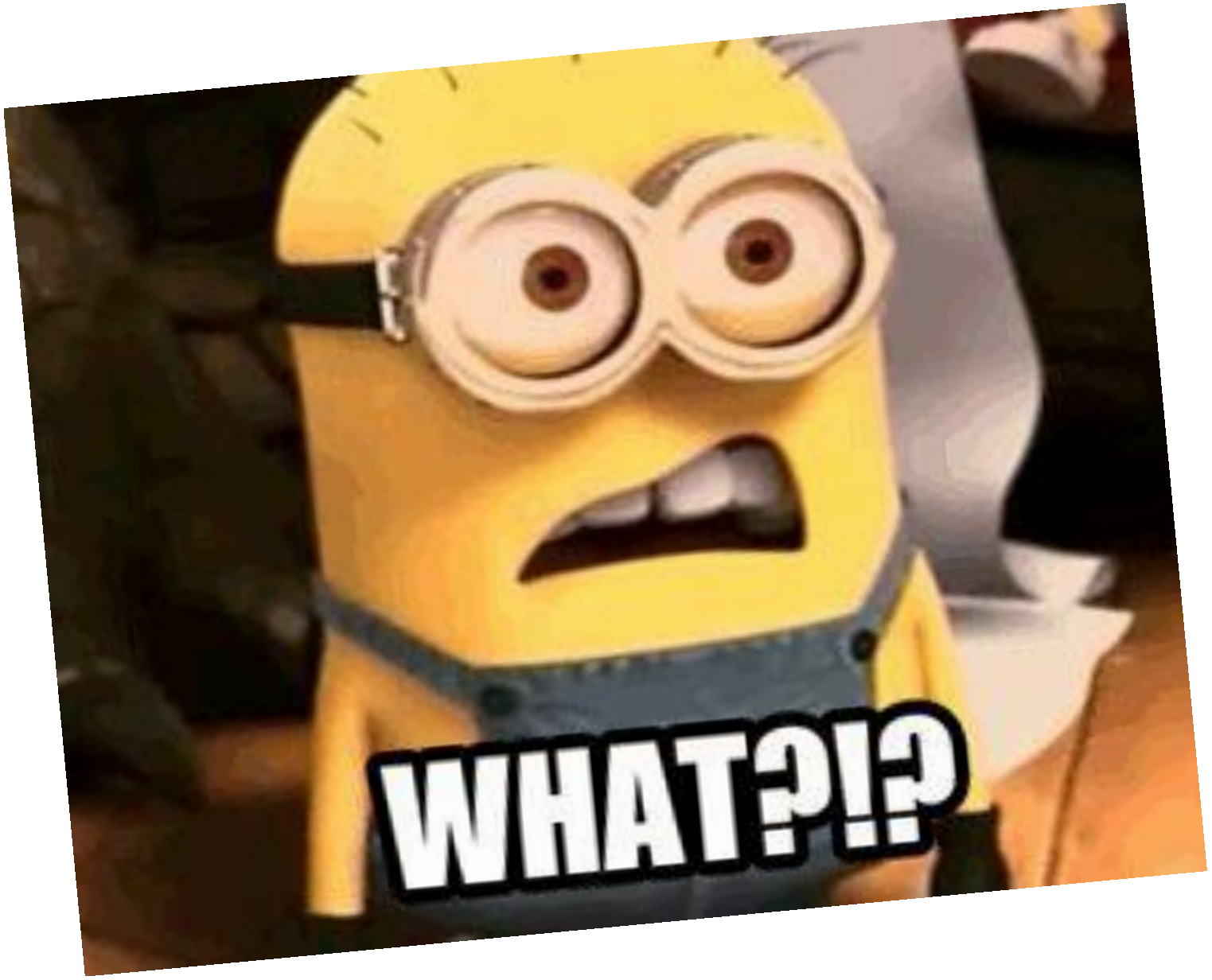


How do I use Mirror Trees

- Create the prospective tree and name it unique
- Upload Tree to GWorks
- Run Match Gedcom Files
- Run Compare all your Trees
- REPEAT

EASY

Welcome to DNAGedcom



Intro to Genetic.Family

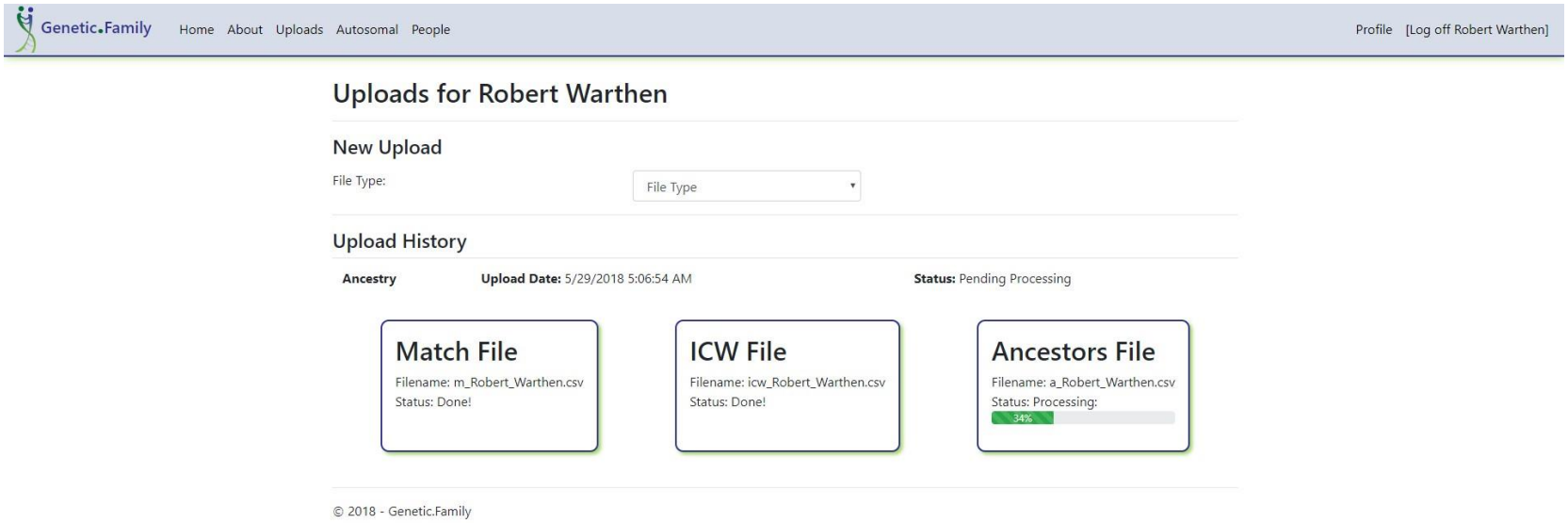
Genetic

Family

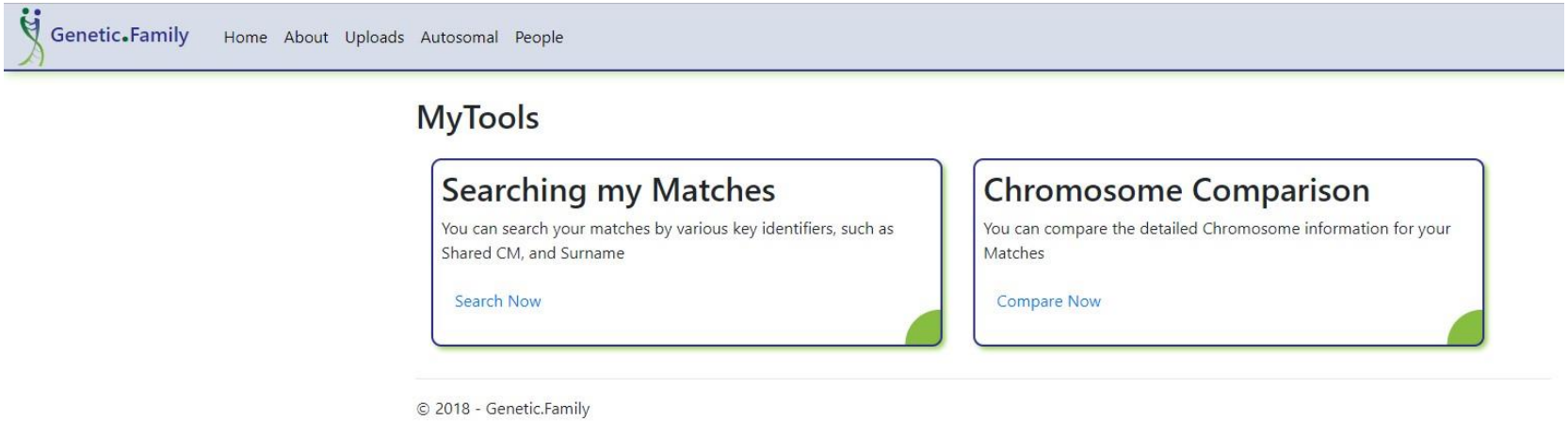
Difference

- Built from ground up to be fully integrated
- Built from ground up for ease of use
- Will add opt-in sharing capabilities
- Will add more visualization capabilities

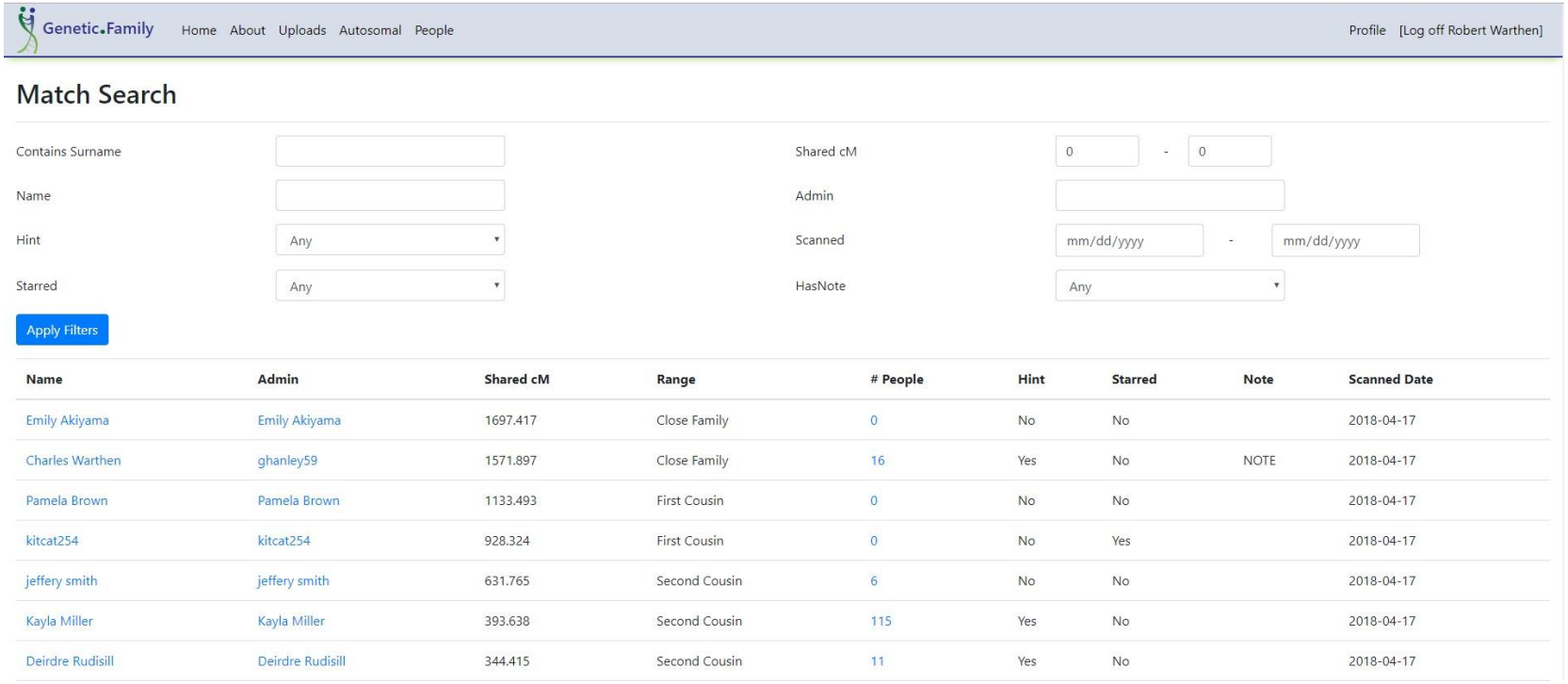
Uploading Data



Updated Screens

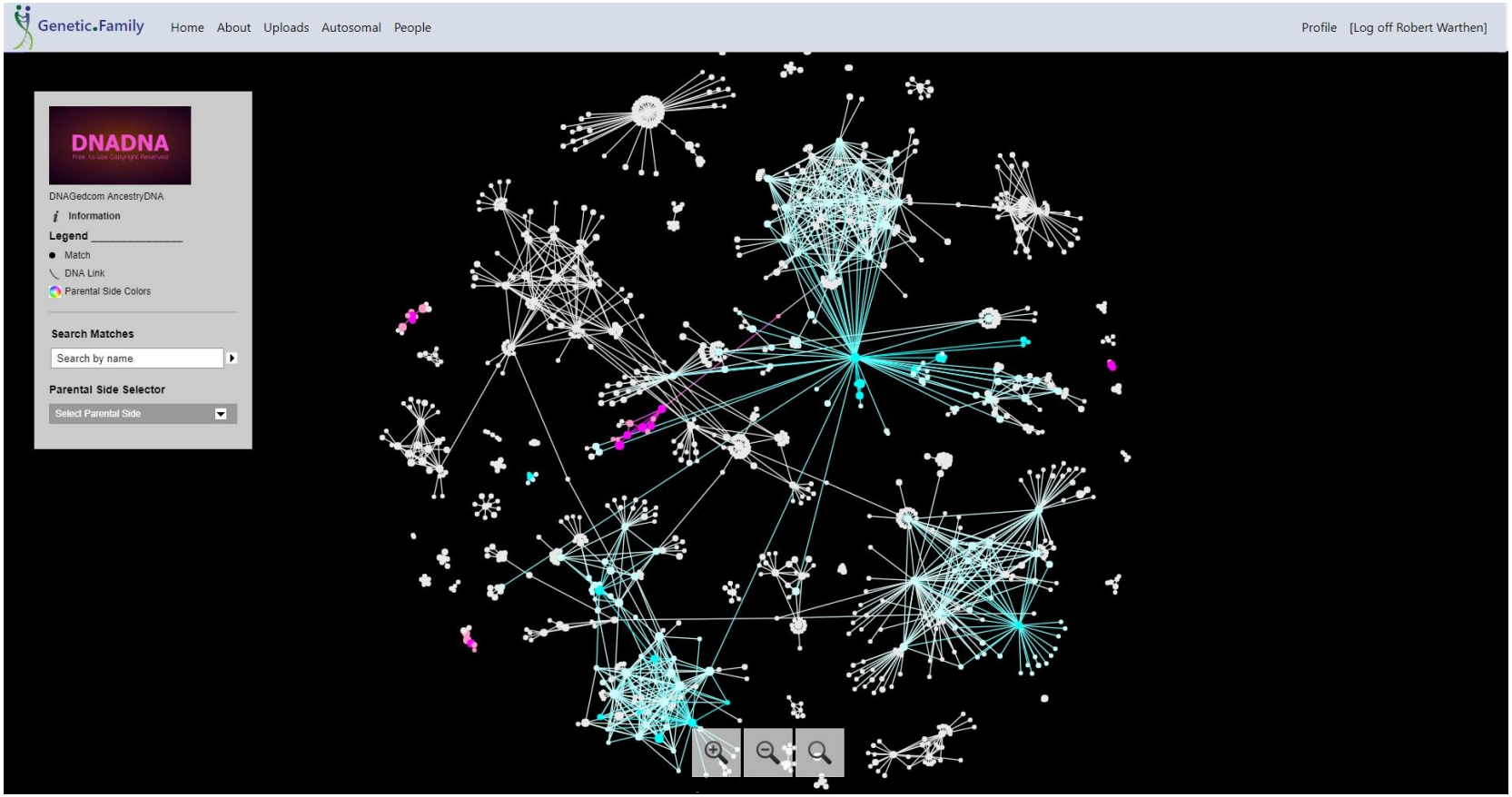


Match Search



Name	Admin	Shared cM	Range	# People	Hint	Starred	Note	Scanned Date
Emily Akiyama	Emily Akiyama	1697.417	Close Family	0	No	No		2018-04-17
Charles Warthen	ghanley59	1571.897	Close Family	16	Yes	No	NOTE	2018-04-17
Pamela Brown	Pamela Brown	1133.493	First Cousin	0	No	No		2018-04-17
kitcat254	kitcat254	928.324	First Cousin	0	No	Yes		2018-04-17
jeffery smith	jeffery smith	631.765	Second Cousin	6	No	No		2018-04-17
Kayla Miller	Kayla Miller	393.638	Second Cousin	115	Yes	No		2018-04-17
Deirdre Rudisill	Deirdre Rudisill	344.415	Second Cousin	11	Yes	No		2018-04-17

Genetic Graphs



DNAGedcom

- DNAGedcom site is not going anywhere
- 100% Privacy will continue
- DNAGedcom Ecosystem where you can build and work with your data will continue

Coming Soon

mitoYDNA.org

Crowdsourced, free and accessible DNA

Finding the Time

Help

- DNAGedcom User Group - https://www.facebook.com/groups/DNAGedcomUserGroup/
- DNAGedcom Front Page – Links to other resources
- Take a class at DNAAdoption
  - Hands on and questions answered class
  - http://moodle.dnagedcom.com/
- Just Ask, be patient and dive in

Questions