

What:

MicrobeTrace is a web-based tool to visually render networks from surveillance, epi investigations, and genetic analyses. Using simple point-and-click interfaces, data can be readily imported, integrated and visualized...no coding required!

Why:

Networks are rich with sensitive data that are hard to visualize without specialized programming skills or tools that required sending data over the web. **MicrobeTrace** provides ready-access to visuals for fact sheets, publications and communiques.

How:

MicrobeTrace is delivered by a modern* web browser, but runs locally on your computer or laptop. This means data and analyses are not sent over the web. *Developed for Google Chrome, does not work in Internet Explorer

Where:

MicrobeTrace: https://microbetrace.cdc.gov

Documentation: https://github.com/CDCgov/MicrobeTRACE/wiki

Example Files: https://github.com/CDCgov/MicrobeTrace/tree/master/demo

Support: microbetrace@cdc.gov

Training Video: https://www.youtube.com/watch?v=5E-_Kb7yvHU

Who:

Developed by the Molecular Epidemiology and Bioinformatics Team in the Laboratory Branch of the Division of HIV/AIDS Prevention at CDC.

Other interactive and interoperable views

Histogram
Table
Aggregation
Bubbles
Flow Diagram
Scatterplot
Waterfall
Map
Globe

2D Network

3D Network

Sequences

Phylogenetic Tree

Gantt

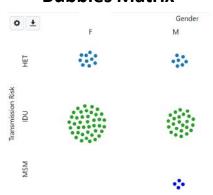
Timeline

Heatmap

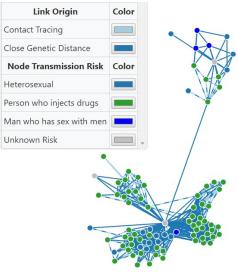
Any combination of input files can be used:

- Node Lists(s) = line-list of people or places
- Edge List(s) = connections between people or places
- Sequence file(s) = microbial genomic sequences
- Distance matrix = pairwise genetic distances
- Tree file = independent phylogenetic analysis

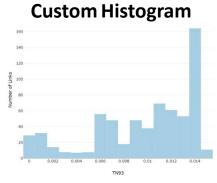




2D Network



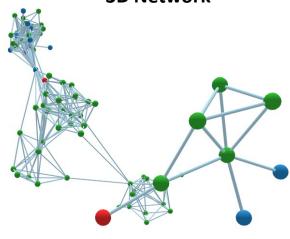
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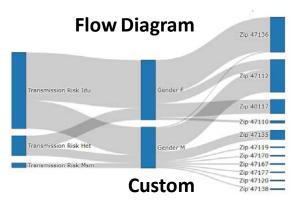


Phylogenetic Tree



3D Network





Aggregate Report

	ion Risk					Number of Nodes *	Percentage
						1	1.14996
	×	Node Transmission Risk	0	۰		17	19.54%
	×	Node Zip	÷	‡		65	74.713%
	×	Node Gender	0	0		4	4.598%
		Add Variable			-	Number of Nodes *	Percentage
						1	1.149%
40117						12	13.793%
47110						2	2.299%
47112						28	32.184%
47119						1	1.149%
47120						1	1.149%
47135						8	9.195%
47136						30	34.483%
47138						1	1.14996
47167						1	1.149%
47170						1	1.149%
47177						1	1.149%
Node Gender						Number of Nodes	Percentage
						1	1.149%
F						51	58.621%