TEXT & DATA ANALYSIS TOOLS TUTORIAL

PART 2: PALLADIO



TEXT & DATA ANALYSIS

Some of the first work ever considered to be of the digital humanities involved creating computer-readable text to analyze with computer programs. Manually reading texts one-by-one and taking extensive notes to find correlations and relationships can be tedious and often futile with large bodies of text. Therefore, text and data analysis tools are amazing, useful options that allow you to see relationships and frequencies of themes and words you would likely otherwise miss. Moreover, these tools can analyze texts and produce results that you can find useful without ever having to read every single line of text. This tutorial is Part 2 of three types of analysis tools: Voyant Tools, Palladio, and RAWGraphs.

PALLADIO



Palladio is a tool developed by Stanford University especially for digital humanists. Palladio takes raw data and generates visualizations in the form of maps, graphs/webs, galleries, tables, and timelines. Palladio is straight-forward and easy to use to manipulate data and see unique relationships.

1. VISIT http://hdlab.stanford.edu/palladio/

- Scrolling down will give you more information about Palladio and its features
- Click Start to begin using Palladio



Palladio. Visualize complex historical data with ease.



What can I do with Palladio?

2. UPLOAD YOUR DATA

- You can copy-paste a spreadsheet or Google sheets of data into the box
- Or you can drag and drop your data set
- *For this tutorial I will be using Palladio's sample data set as seen on the left-hand side

Create a new project

Load an existing project

Try with sample data

Create a new Palladio project by uploading your data from a spreadsheet or flat-file, or load data from a SPARQL endpoint. Not sure how Palladio works?

Load .csv or spreadsheet

Copy and paste out of your spreadsheets, drag-and-drop to upload tabular data (e.g. .csv, .tab, .tsv), or link to a file in a public Dropbox folder to create a new Palladio project. Not sure how to structure your data?

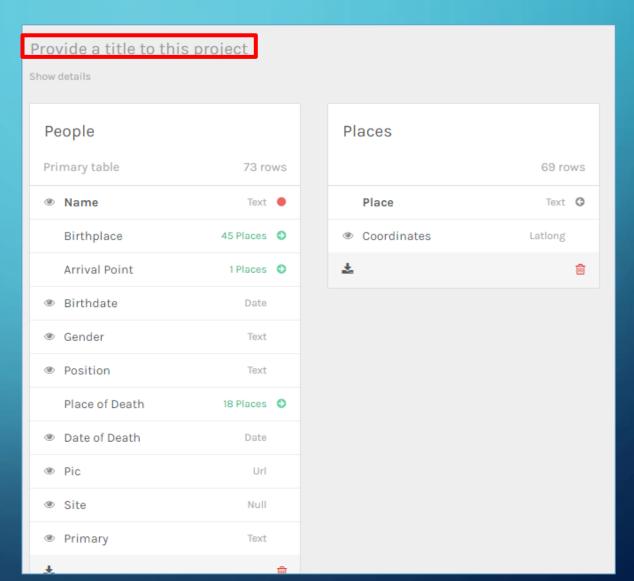
1

Load

More than one table? No problem! If you have more than one table, start by uploading your primary table. The primary table should contain the main entities you want to visualize. It could be a collection of objects, like persons or letters, or more abstract concepts, like relationships or flows. Once you have uploaded your primary table, you will be able to extend it with additional information from other tables.

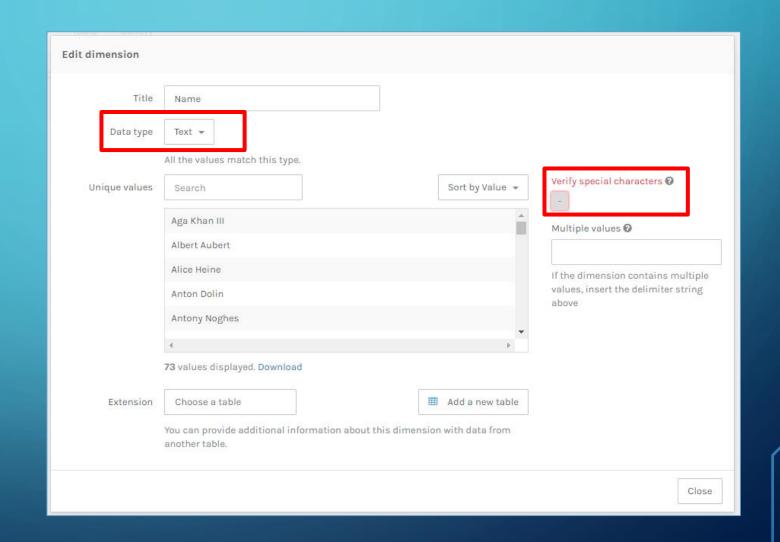
3. EDIT & UNDERSTAND YOUR DATA

- First click "Provide a title to this project" to title your work
- Each item listed
 represents a portion of
 your data that Palladio
 has determined as a
 category
- Click on an item to see
 more information about it
 and make edits to how
 Palladio recognizes it



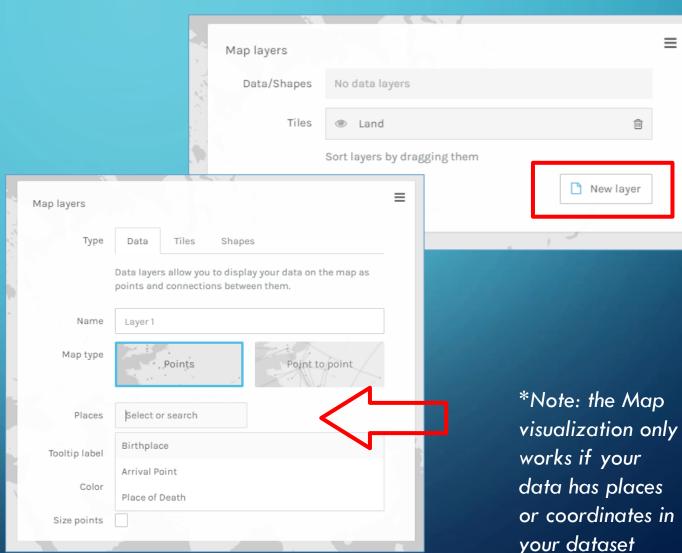
3. EDIT & UNDERSTAND YOUR DATA

- If you notice a red dot by one of your items, this means that Palladio needs you to accept or modify unusual elements it detected in your data set. Do so by clicking on that item.
- You can change the "data
 type" if Palladio
 incorrectly identified what
 type of data you have



4. DATA VISUALIZATIONS: MAPS

- Once your data is as you want Palladio to recognize it, click the "Map" tab in the upper left
- Next click New Layer
- Select the portion of your data that you want to see on the map by clicking in the "Places" box and selecting

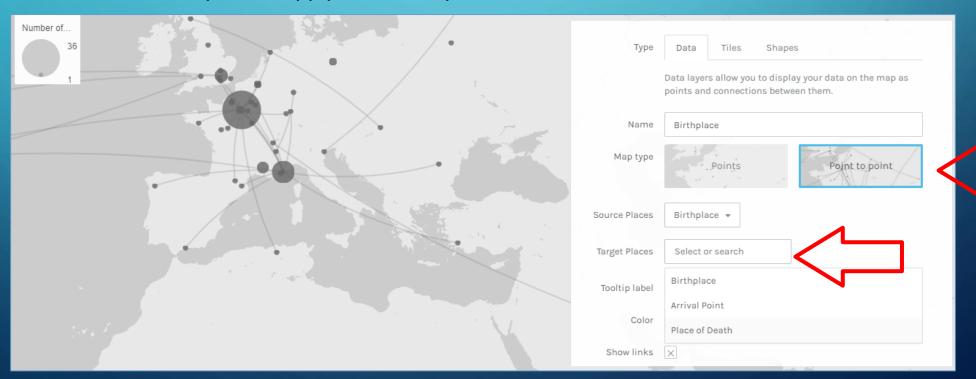


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New layer

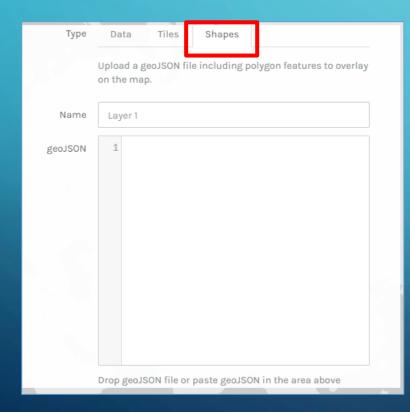
MAPS

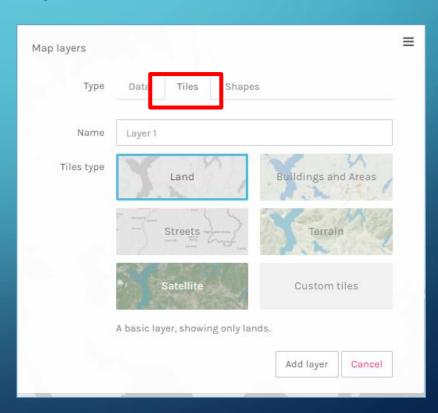
- Palladio will plot points or show connecting lines between points; to create lines between points, click the
 Point to Point box while editing your layer, then select your second set of locations from the "Target Places" box.
- To show the lines between the two points, click the "Show Links" box. To make the points bigger or smaller depending upon how many times that place is present in your data, click the "Size Points" box.
- Be sure to click "Add Layer" or "Apply" whenever you edit.



MAPS

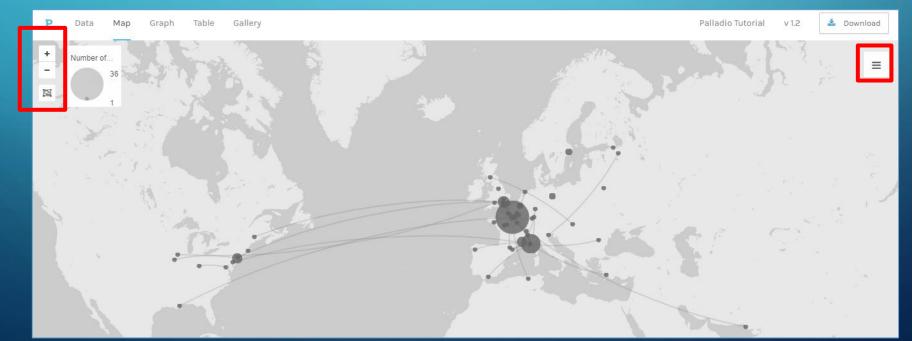
- Other features of the Maps visualizations include being able to upload unique geo-related shapes using geoJSON by clicking the "Shapes" tab.
- You can also customize what map view you want under the "Tiles" tab.





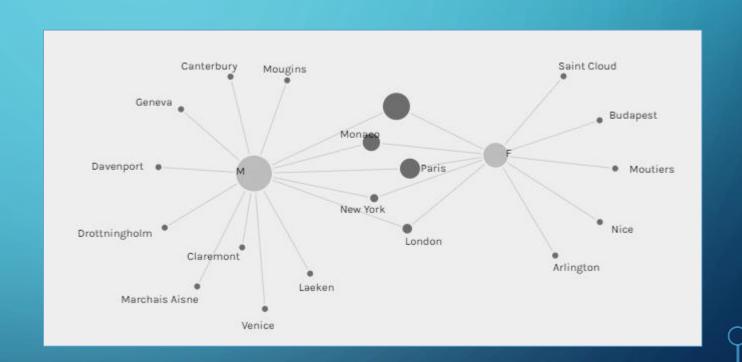
MAPS

- Click the lined box in the right corner to hide the layer editing functions.
- You can zoom in and out or exactly to your data using the + and square icons on the left side corner. Hovering over a point tells you information about that specific data point.
- To download the image of your map, click the **Download** box at the bottom of your edit box.



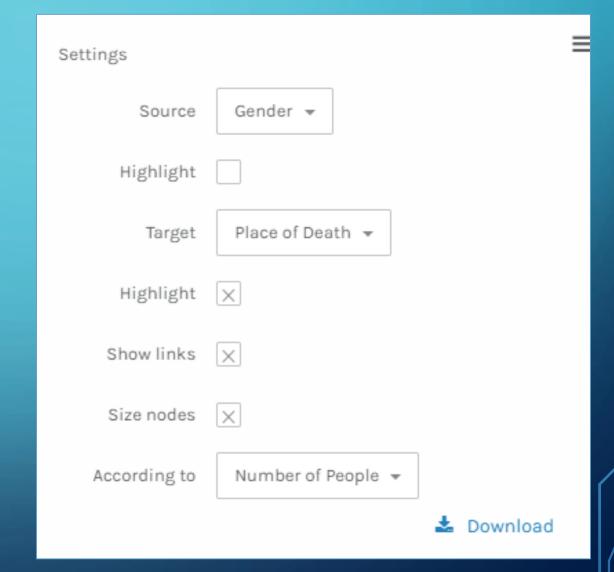
5. DATA VISUALIZATIONS: GRAPHS

- Palladio also creates graphs in the shape of interconnected webs, allowing you to see relationships between different categories in your data.
- Click the "Graphs" tab at the top of the screen.



GRAPHS

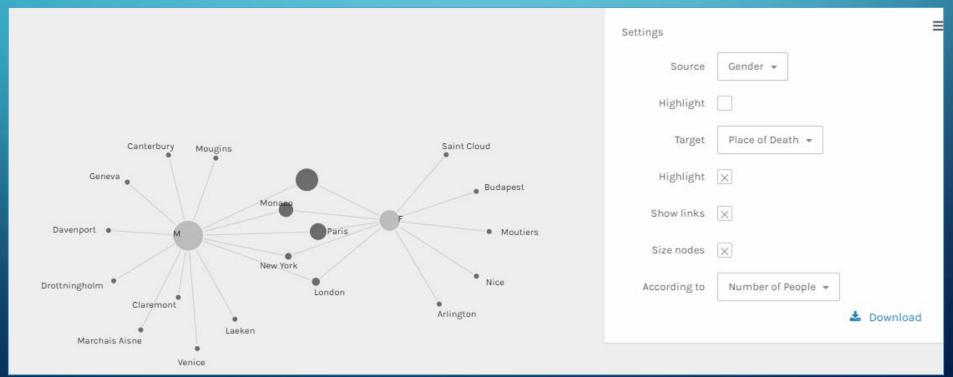
- To see a relationship between two categories you will need to pick a "source" and a "target" aka Category of Interest #1 and Category of Interest #2.
- Clicking the "Highlight" box darkens that set of points.
- Clicking the "Show Links" box shows the lines among the points.
- Clicking "Size Nodes" makes the points bigger or smaller just like with the Maps function.



GRAPHS

*In this example I wanted to see the relationship between Gender and Place of Death of the people in my sample dataset; thus, my "source" is *Gender* and my "target" is *Place of Death*. As you can see in the visualization, places where men and women both died are the points in the middle: Paris, New York, London, and Monaco.

You can drag points around to create the exact shape you want.



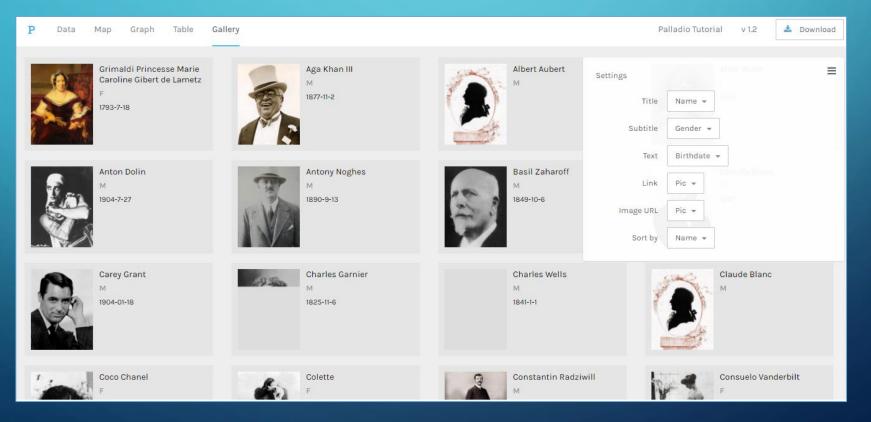
6. DATA VISUALIZATIONS: TABLES

 The "Table" tab does what it sounds like: creates a table with one row and one column to show relationships between those two categories in a very linear manner.

P	Data	Мар	Graph	Table	Gallery						F	Palladio Tutorial	v 1.2	<u></u>	Downloa	d
Birthdate (62 of 62 rows displayed)										Date of Death						
1847											Settings				=	■
1854											Row dimension	Birthdate ▼ At least one row per value in this dimension. Multiple values will be				
1864												displayed as lists				
1890										Dimensions	Date of Death ▼ Downloa					
1929-11-12																
1923-5-31											2005-4-6					
1920-12-2	8										2011-3-18					
1908-05-2	28										1964-08-12					
1904-7-27											1983-11-25					
1904-01-18	3										1986-11-29					
1898-9-30)										1977-11-17					
1895-10-2	4										1964-11-10					

7. DATA VISUALIZATIONS: GALLERIES

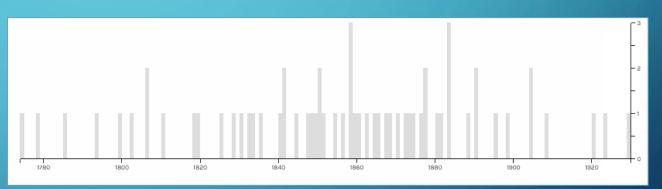
• Like the Table function, the "Gallery" tab visualizes your data with any images in your dataset. You can select what appears below each image and how the images are arranged in your gallery.

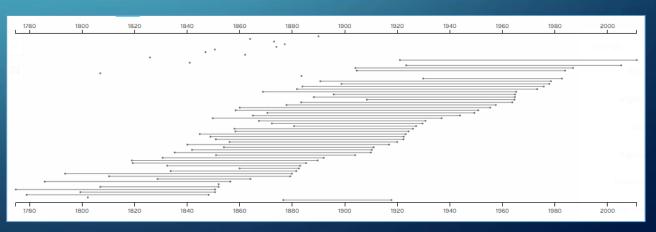


7. DATA VISUALIZATIONS: TIMELINES

- At the bottom of each visualization screen are Facet, Timeline, and Timespan
 - Facet will show lists of each category you decide with the number of times it occurs
 - Timeline will represent a category as a timeline, so long as it has a time element, like birthdate
 - Timespan will show lifespans







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