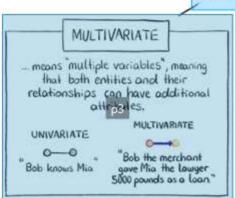
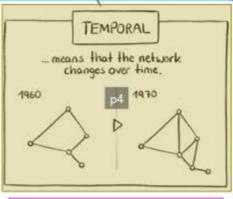
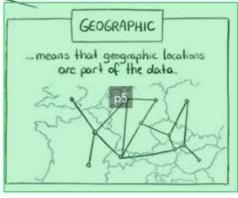
## WHAT CAN THE VISTORIAN DO: A FEATURE OVERVIEW

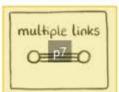
The Vistorian is a tool for interactive exploration of MULTIVARIATE, TEMPORAL & GEOGRAPHIC networks.

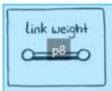


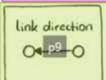


The Vistorian can visualize various properties of removers, such as:









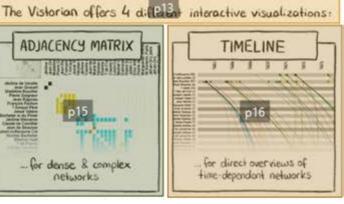


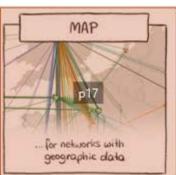


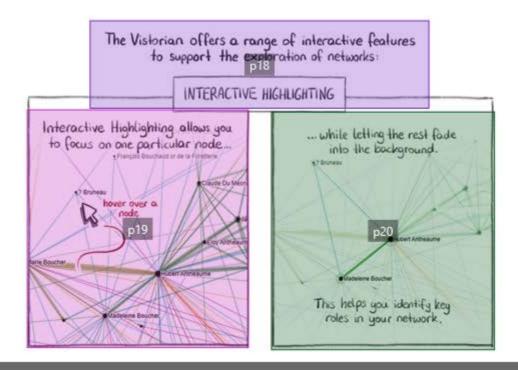




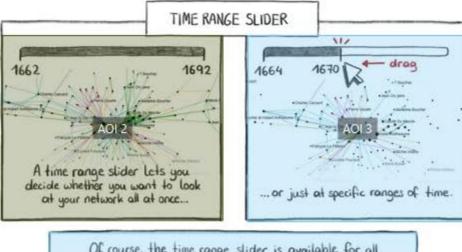




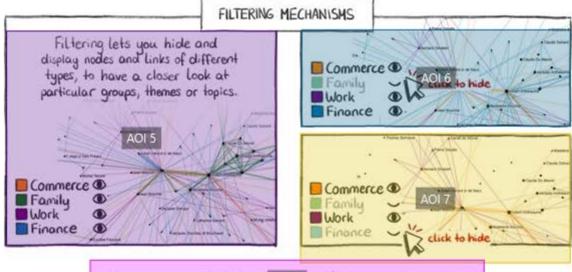




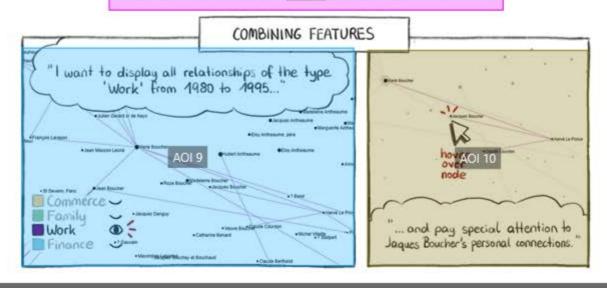
## WHAT CAN THE VISTORIA ADDO: A FEATURE OVERVIEW





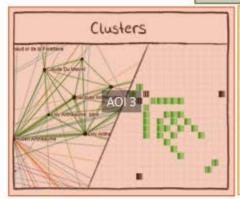


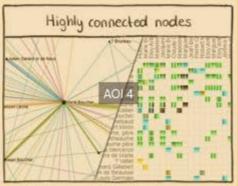
You can use all of the intacted ve features combined, too!

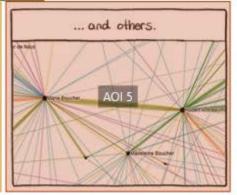


## WHAT CAN THE VISTORIANDED: A FEATURE OVERVIEW

All visualizations in the Vistorian are algorithmically optimized to reveal network structures such as...

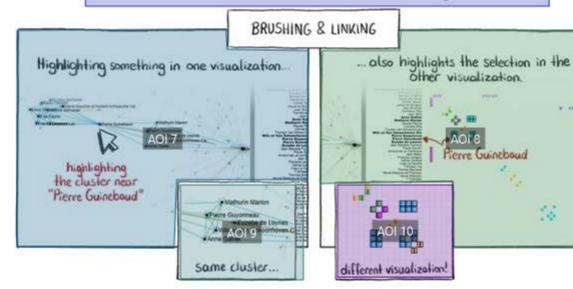






The visualizations are also fully linked and can be explored side by side. This allows you to make the most 2.6 of each visualization's strengths.

This technique is also called brushing & linking.



The Vistorian is a standalone, open-source application.

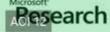
Your personal network data is kept safely in Your browser's local storage Moiti you delete it.

No account is required and no personal data is transmitted to our servers.



The Vistorian is developed by:







THE UNIVERSITY of EDINBURGH

Read more about it at vistorian github io

These comics were created in a collaboration with St. Polten University of Applied Sciences, funded by the GFF NO as part of the dissertation project Visioon (SC20-014)



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## NODE TABLES AGIND LINK TABLES

When working with not work data, you might encounter different types of tables:

#### LINK TABLES

Sender	Receiver	Amount (k)	Year	Тура
tob	Charles	10		Loan
Bob	Charles	14	1803	Gift
Bob	Charles	AOI 3	1810	Purchase
Bob	Anton	2	1801	Purchase
Anton	Bob	5	1810	Loan
Anton	Lily	4	1804	Loan
Charles	Anton	2	1804	Purchase

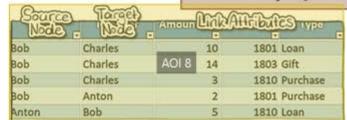
In link tables, each row describes one relationship between two antities (i.e., nodes). For example, the marked row here showners manual transfer from Bob to Charles, where the amount was 14k, and it was a gift.

#### NODE TABLES

Mama	Prof		ot City
Bob	Merchant	he/him	16 Jedburgh Ri Lewes
Anton	Lawyer	he/him	98 City Walls R Clunie
Charles	Accountant	he/him	30 Rhosddu Rc Fidden
Fred	Attorney	AOI 5	51 Cloch Rd St Harmon
Llly	Accountant	she/her	81 Peachfield FChallacombe
Felix	Flight Attendant	he/him	78 Seaford Ros Cumwhinton
Iulian	Police Officer	he/him	46 Marlboroug Southampto
Alex	Teacher	they/them	39 Foregate Sti Codmore Hill
Allinus	- Orland	boo Ostore	10 Octobrilla End Brookers

In node tables, each row contains information about one single entity (i.e., node). For example, the marked row in this oppose shows that Charles is an accountant, goes by he/him, and lives at 30 Rhosddu Road in Fidden.

The main difference between the two kinds of tables is the way they are used to specify networks:



Link tables can be used to directly create a network from them, since all information about the links is there. Visualized, this part of the table could look like this: (or this, if you include



Name	Profession	Pronouns.	Street	City
Bob	Merchant	he/him	16 Jedburgh	RiLewes
Anton	Lawyer	he/him	98 City Walls	R Clunie
Charles	Accountant	ne, nim	30 Rhosddu	Rc Fidden
Fred	Attorney	he/him	51 Cloch Rd	St Harmon
Lily	Accountant	she/her	81 Peachfield	d f Challacombe
-11	Citaba Assandan	a badan	70 C D	
	e could at bes shows how man			
			ve which j	
?	shows how man	y people ho	ve which jo y X LA	obs

Instead, node tables are used TOGETHER with Link tables.

LINK TABLE

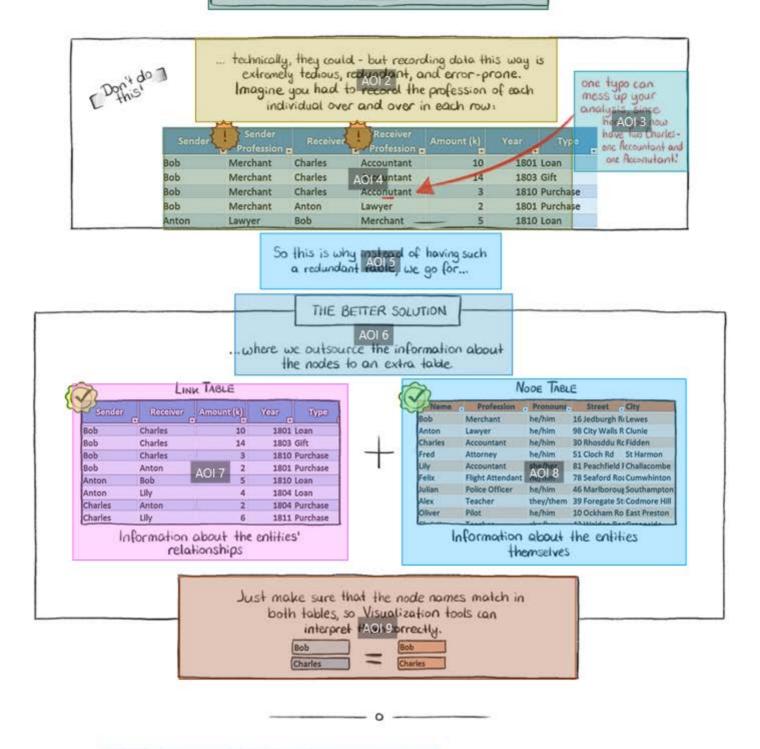


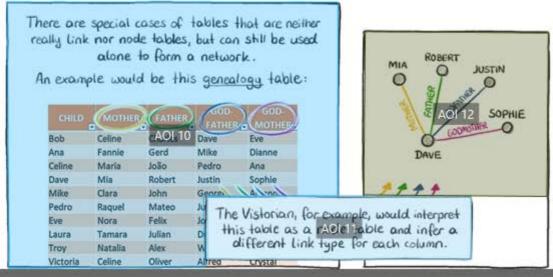
NODE TABLE

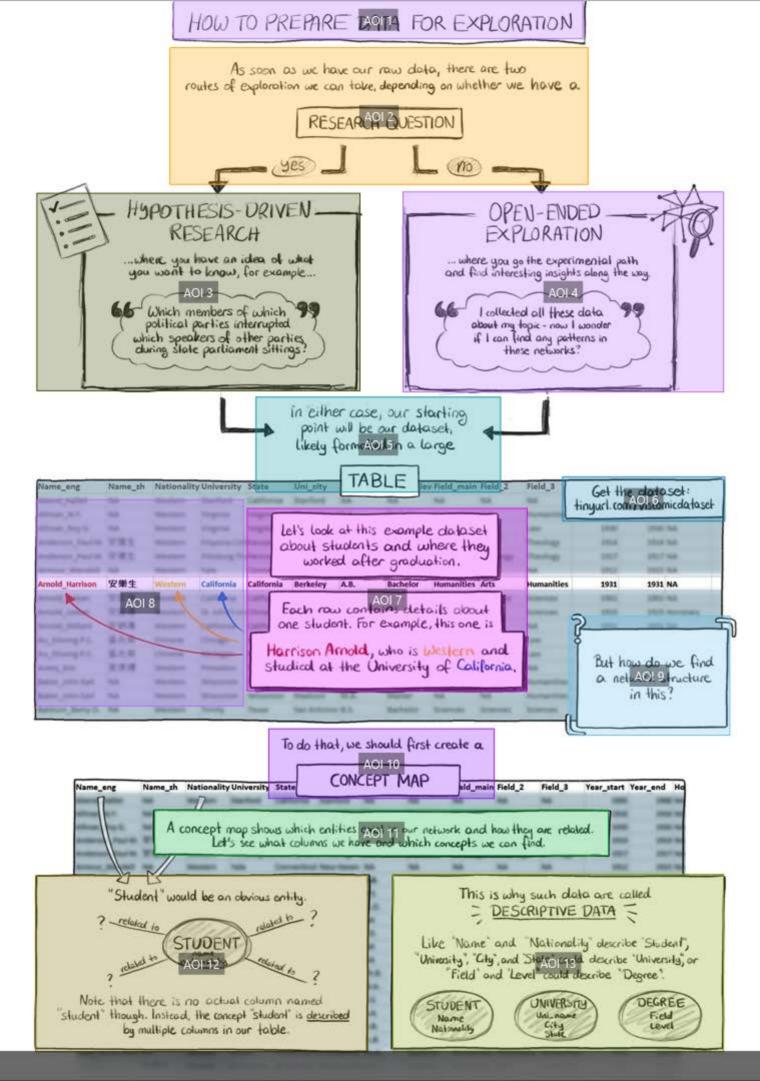
This way, they complement each other, because link tables cannot contain information about the entities themselves \* (like node types)

\* well, technically..

# NODE TABLES AND LINK TABLES

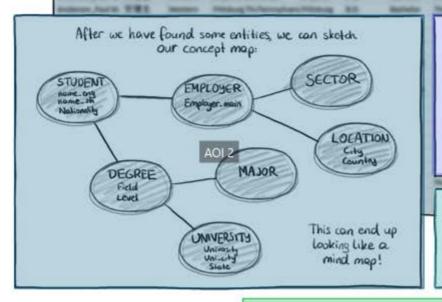






### HOW TO PREPARE LATA FOR EXPLORATION

\*\*



CORNER PARTY NICHAL

It's important to know that there is not always a single "correct" solution:

"Dearer" could also be treated as descriptive

"Degree" could also be treated as descriptive data for "Student", or "Location" and "Sector" could be descriptive data for "Employer".

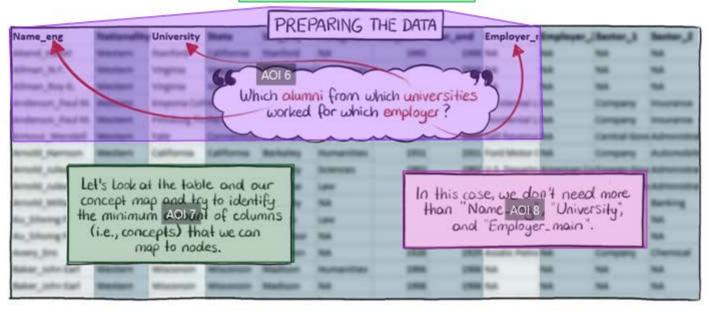


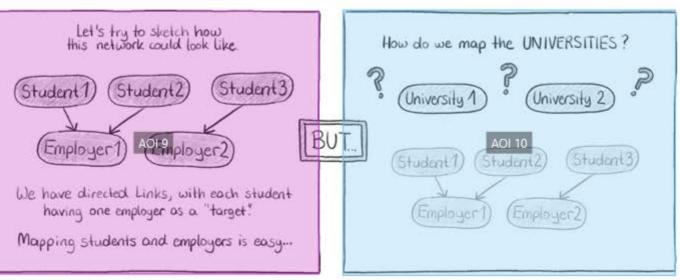


Which entities and descriptive data we concentrate on depends on our current research question of 1

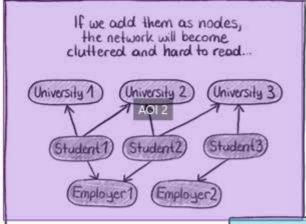
We may also ignore parts of our table!

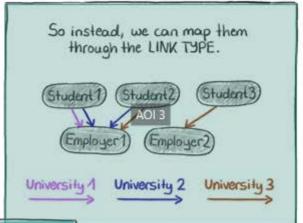
So, Let's take an example research question and place from our network could look like to answer it.





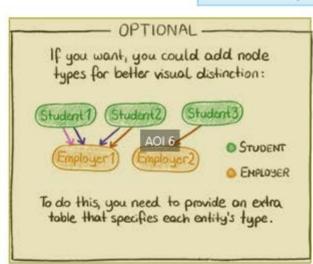
## HOW TO PREPARE DATA FOR EXPLORATION





Both of these graphs showline SAME INFORMATION!

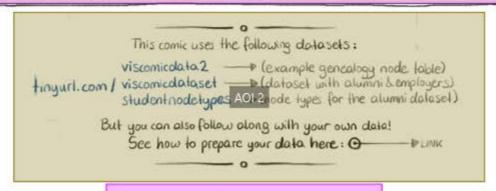
Technically, you could have your data visualized now. ThAO is just one optional step left to do:



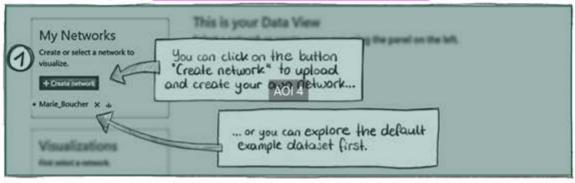
OPTIO	NAL -
Such a table should	d look like this:
Name or 1D of node	Node type
Arnold_Julean	Student
Arnold_Millard AOI	Student
Au_Silwing P.C.	Student
Avery_Eric	Student
Baker_John Earl	Student
Baldwin_Berry O.	Student
Barnett_E.E.	Student



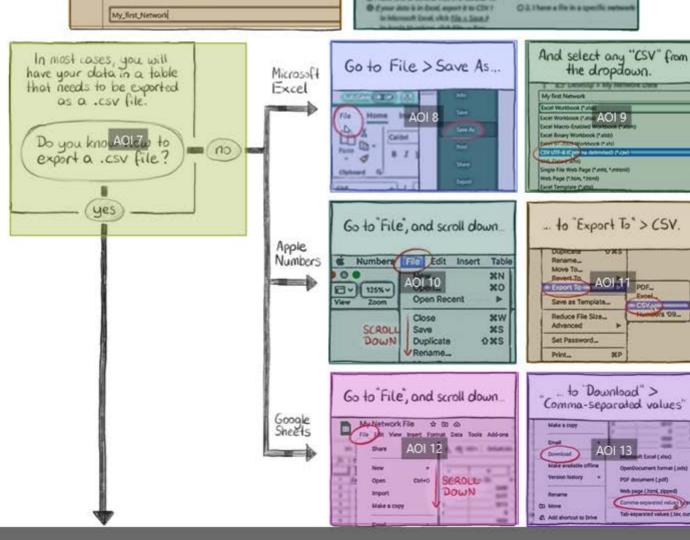
#### UPLOADING DATA & CREATING A NEADDLY SCHEMA WITH THE VISTORIAN



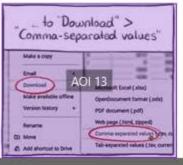
When starting the vistorian, you will see the following:

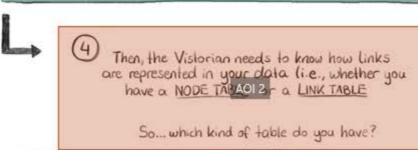








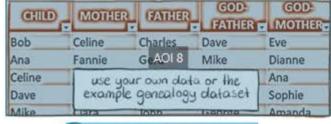








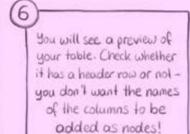
Name_eng Mame_zh	Nationality			Unffelty 5	Degree_so
Abend_Hallet NA	Western	Stanford	California	Stanford	NA
Allman_N.F. NA	Western	Virginia	Virginia	Charlottes	A.Bih
Allman_Roy G NA	Western	Virginia	Virginia	Charlottes	WILLS.
Anderson_Pat 安建生	Western	Emporia Co	lic Kansas	Emporta	A.B.
Anderson_Pat 安建生	Western	AOL5	he Pennsylvan	ii Pittsburg	8.D.
Armour_WencN		Name and Address of the		7	NA .
Arnold_Harris 🛱	nold Harris to use your own data or the				
amoid Julear 5 alumni - employers example dataset					8.5.
Arnold_Julear 5	1 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -				LL.O.

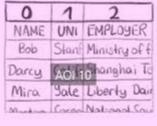














☐ Has header row?

M Has header row?

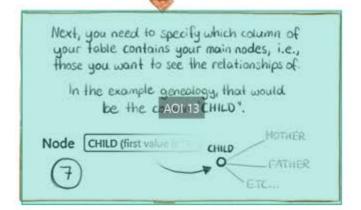


Next, you need to tell the Vistorian which columns in your table describe your source and target nodes.

(Or, simply, which are the two nodes that have a relationship)

SOURCE TARGET



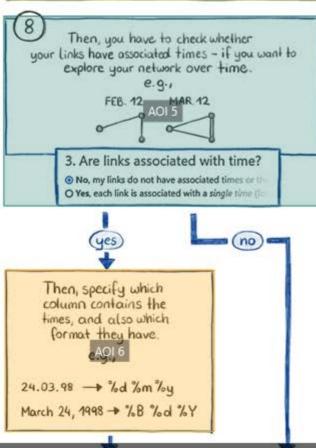




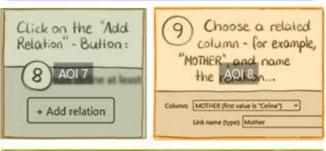


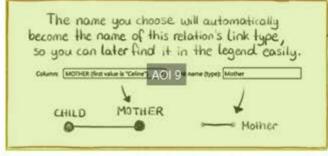
Next, there are a for optional fields you can specify if your research question or network structure requires them:



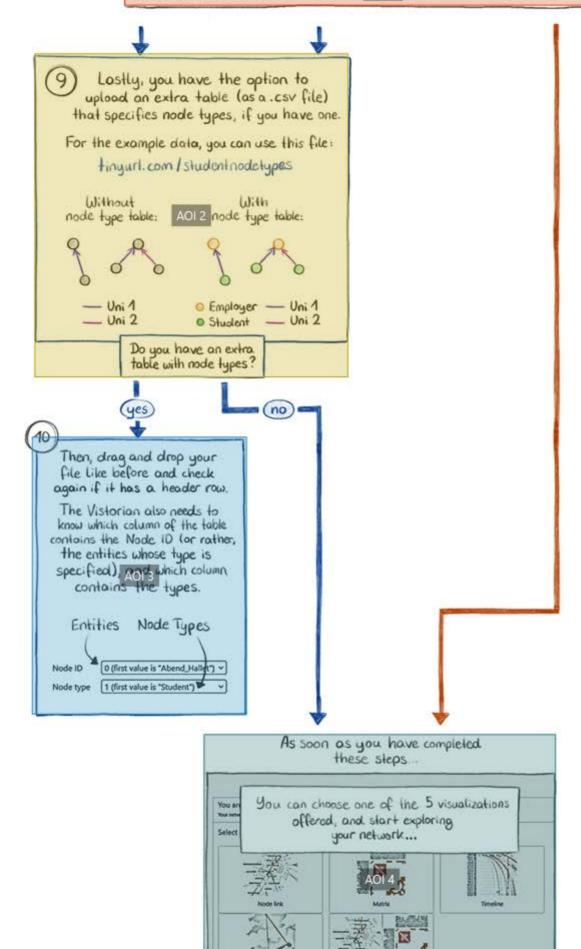


Then, all that's left to do is to specify which other coldes your main nodes have a relationship to - and how you want to name them.









...hopefully you will find some interesting insights!