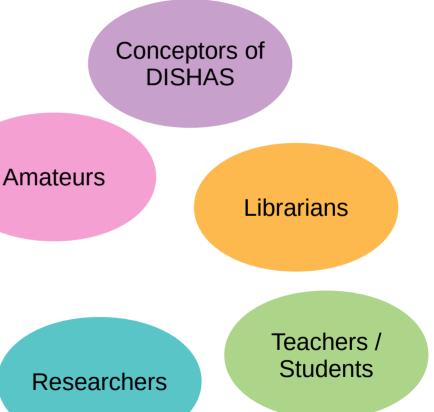
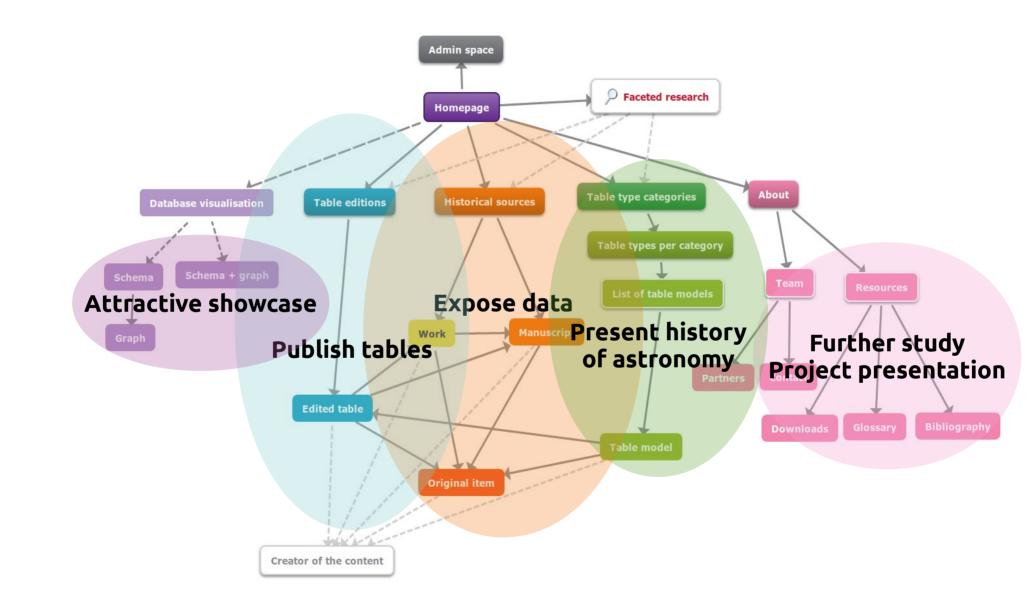
# Purpose of the front office

- Expose the platform data
- Publish tables
- Present the project
- Provide pedagogic content
- Be an **attractive** showcase





#### Aim of the visualizations

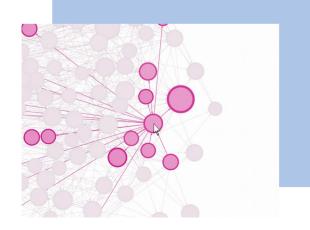
- Explore DISHAS's data in its specificity
- Aggregate a lot of data : quantitative analysis
- Illustrate the context of production of the tables
- Approach the subject in an interactive way
- Discover unexpected correlations between data
- Provide course materials

# Granularity of visualizations



Global visualization of **all the data** 

Ex : graph of the entire database





#### List

Visualization of **an entity** of the database

Ex: map of the places of conceptions of all the works

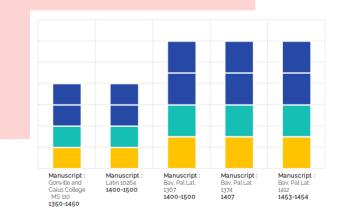




#### Record

Visualization of a **single record** 

Ex: a column chart to represent the manuscript originated from a work



#### Entire Database



# Graph of the database

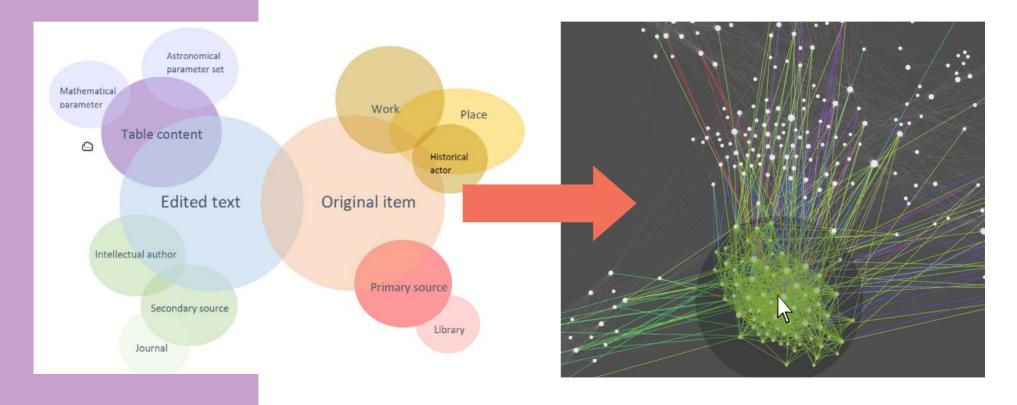
#### **PURPOSES**

- Better understanding the conceptual model of the database
- Discover unexpected corrrelations between records
- Be an attractive showcase for the project

#### Entire Database

# Schema + graph





Example

Tools: Sigma js, cytoscape, Gephi, Kibana

Astronomical object Table type Formula definition



## Discover table models

#### **PURPOSES**

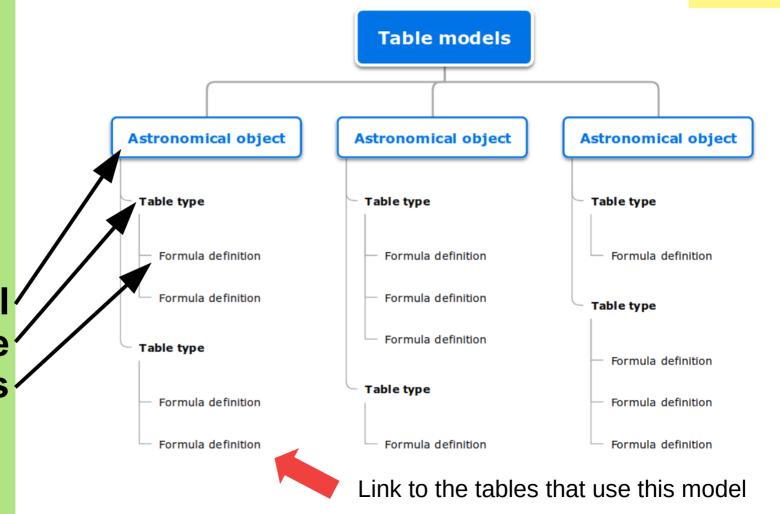
- Provide editorialized scientific content for the platform
- Give access to the tables via an astronomical logic
- First milestones of a virtual exhibition on medieval astronomy

Astronomical object Table type Formula definition

#### Trigonometrical → Sine → Simple sinus

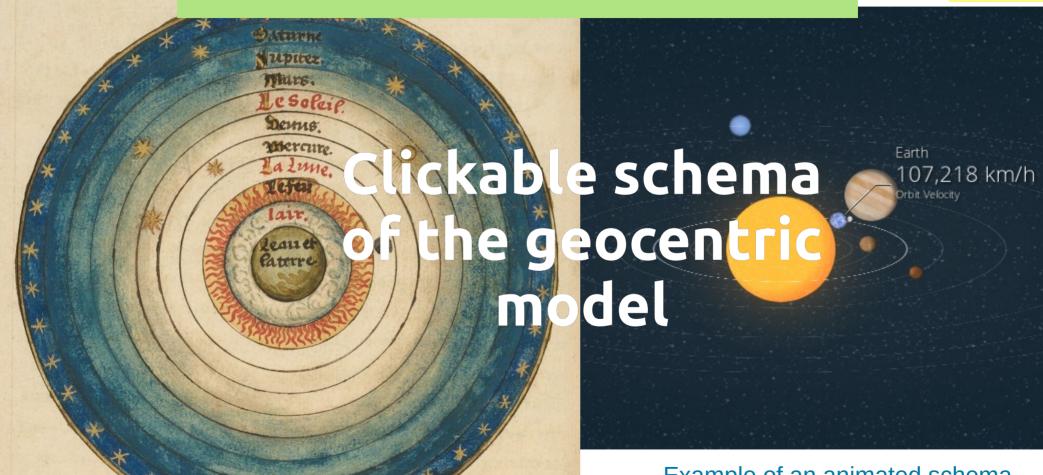
### Discover table models





# Astronomical object

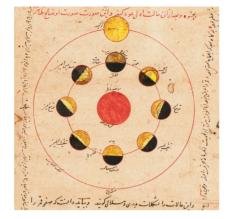




Example of an animated schema

Astronomical object

Extensive iconography





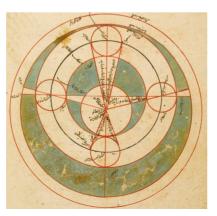


**Eclipse** 

Moon

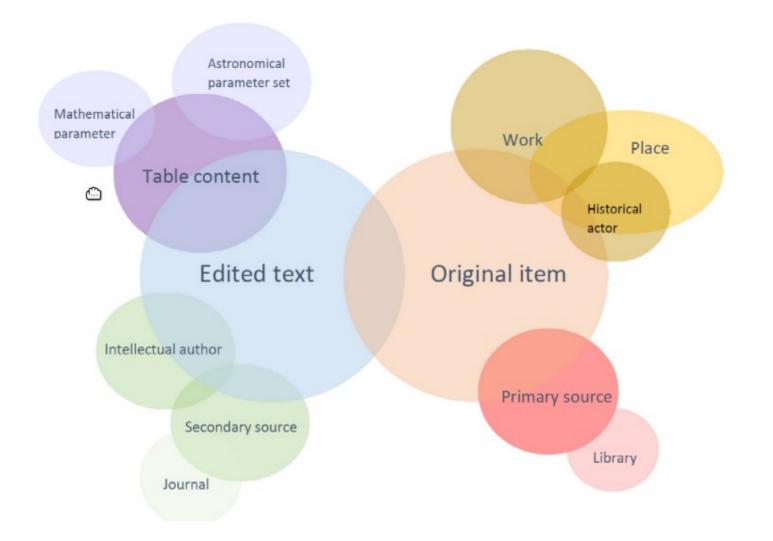
Mars

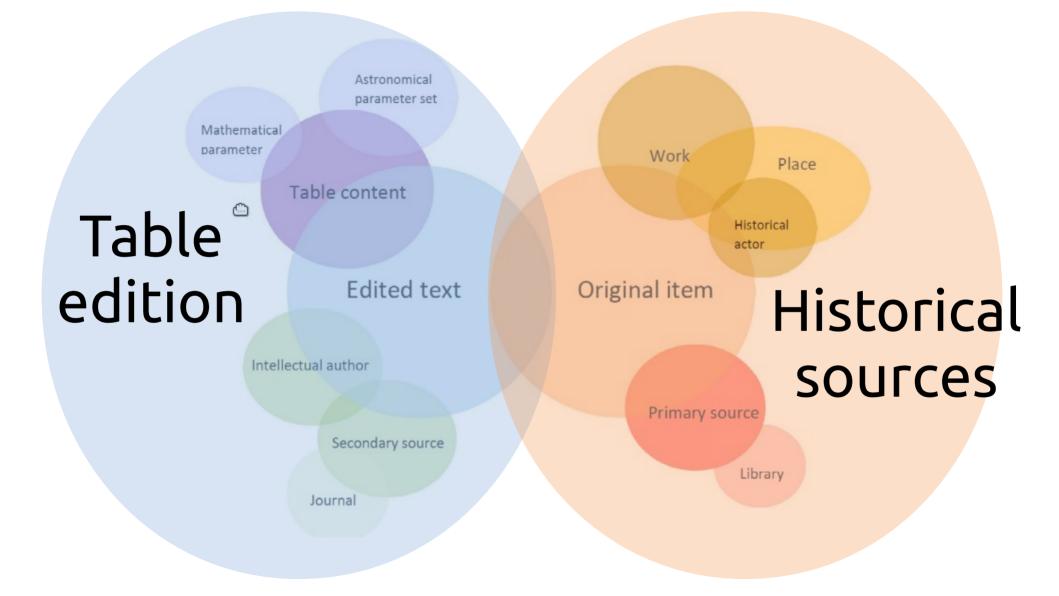
**Trigonometrical Spherical Sun** 

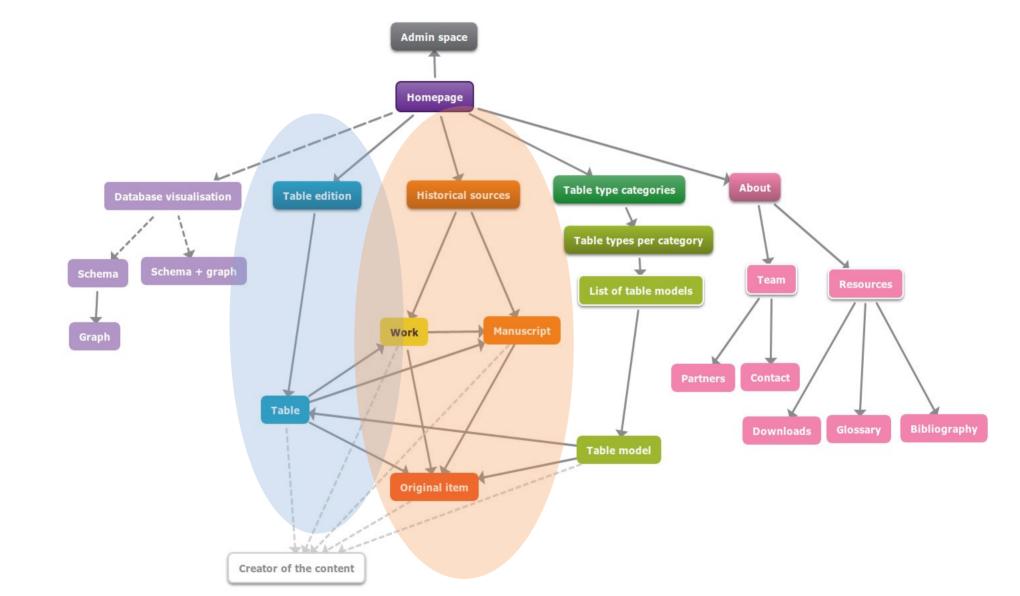














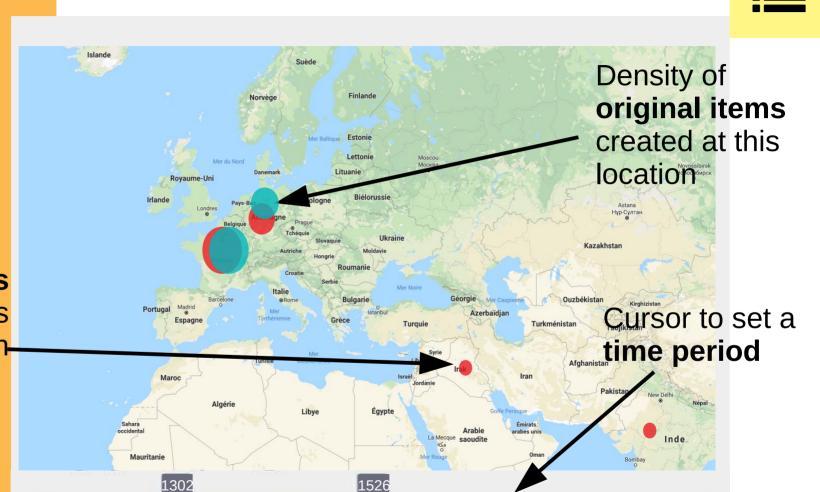


#### **PURPOSES**

- Focus on the creation context of the tables
- Illustrate the circulation of knowledge
- Show places and periods of intellectual profusion
- Give access to the records of work and primary source

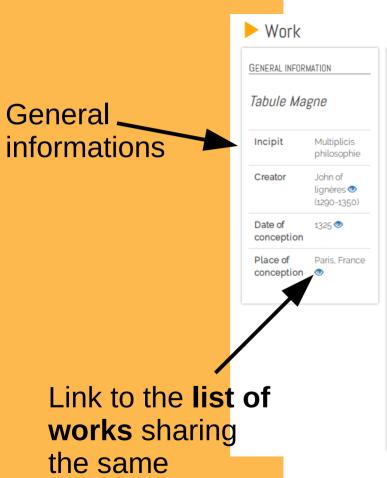
#### Work Original item

Density of works created at this location-

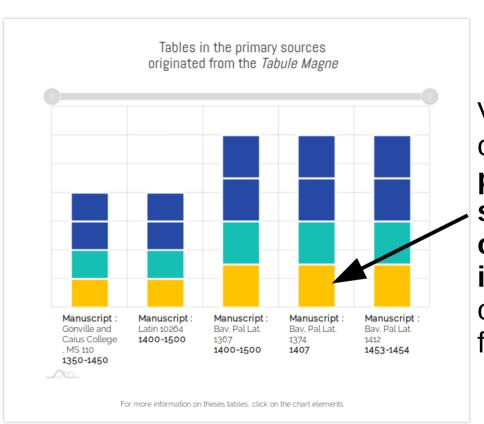


#### Work





characteristics



Visualisation of the primary sources and original items originated from the work

Example

# Primary source



General informations

GENERAL INFORMATION

Shelfmark

Library

Writing place
Timeframe of

conception
Scribal agent

Primary source

Gonville and Caius College, MS 110

Cambridge 
Cambridge
United Kingdom

England, Uk 👁

1350-1450 👁

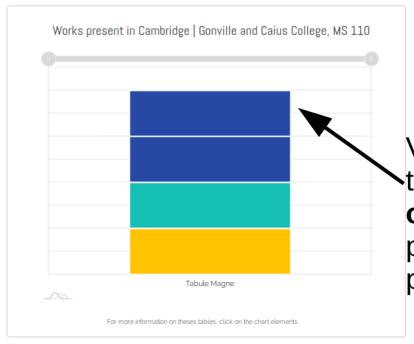
Latin 👁

Latin 👁

ISO 639-2: lat

15924 : Latn

Manuscript — Gonville and Caius College, MS 110



Example

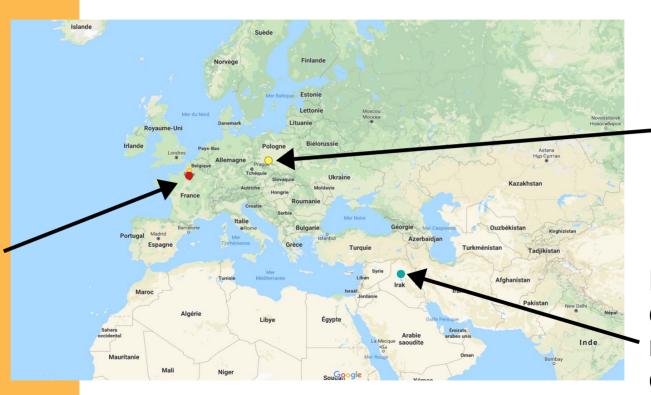
Visualisation of the work and original items present in the primary source

Link to the list of primary sources sharing the same characteristics

# Original item



Place of creation of the work of the original item



Place of creation of the **original item** 

Place of curation of the manuscript containing the original item

#### Edited text Table content

## Table editions



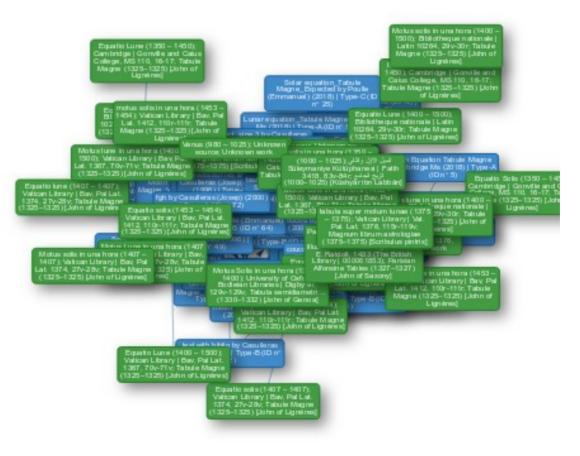
#### **PURPOSES**

- Give an overall view of the edited content of the platform
- Show tendancies in type of table / astronomical parameter
- Give access to the records of table edition

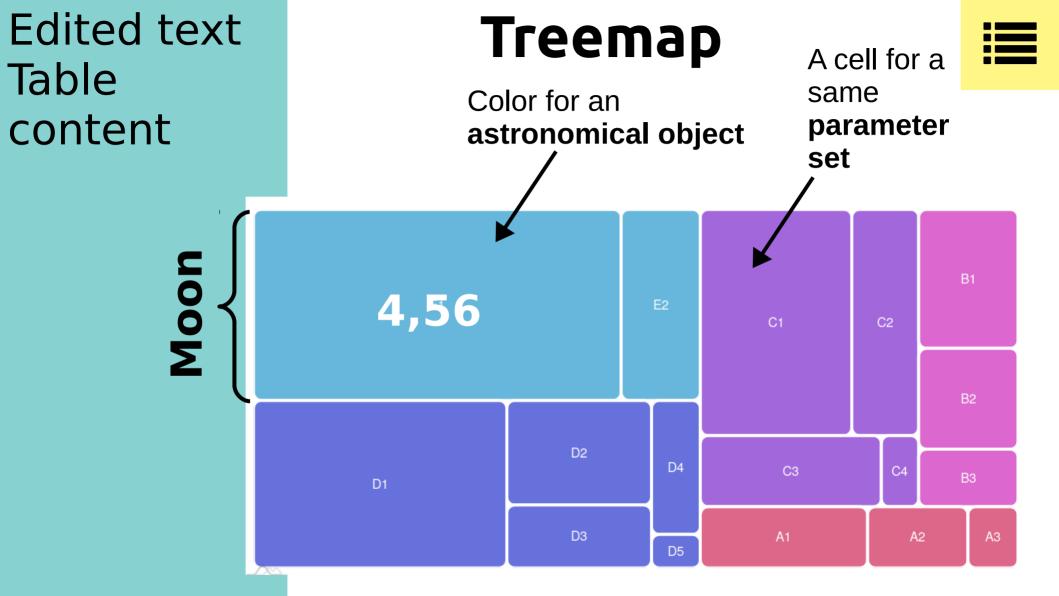
#### Edited text Table content

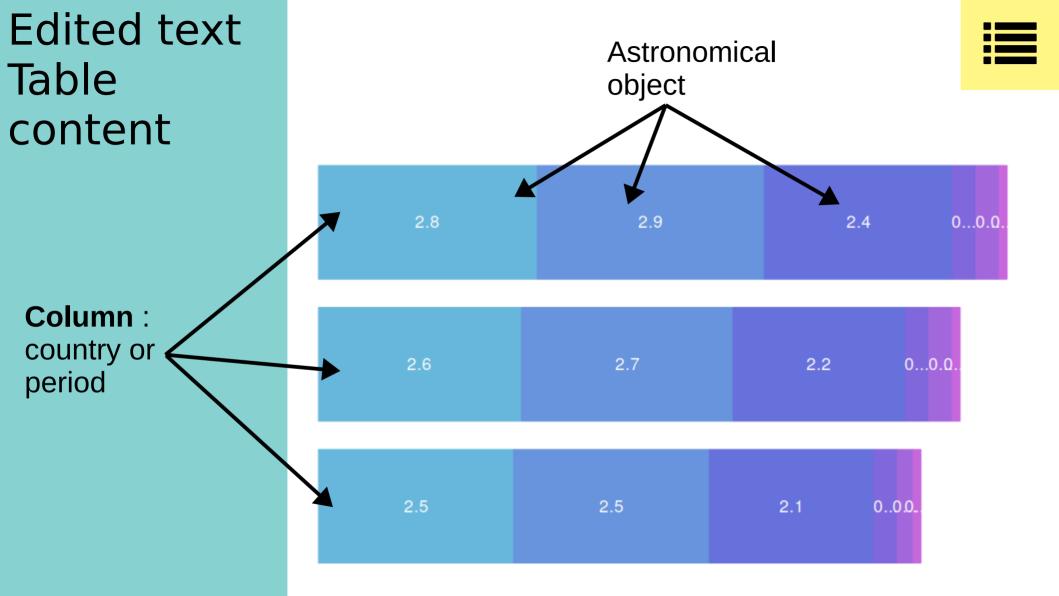
## Admin side





#### Edited text Stacked bars **Table** Amount of editions of a content particular work **Edited** Color to works specify a table type Amount of editions 150 One original of a particular item original item







#### Table edition

# Historical Context

(edition type A and B)

- related work
- related manuscript
- etc.

# Mathematical Context

- astronomical parameter set
- table type
- etc.

# **Editorial Context**

- sources of the edition
- intellectual author
- edition type

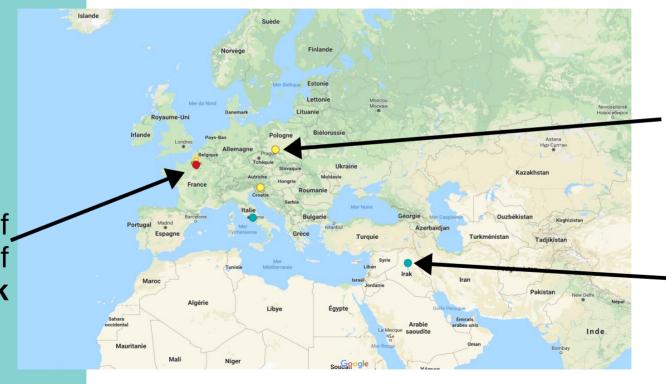
#### **Table content**

- View of the table
- Critical apparatus
- Comments

#### Edited text



#### Historical context



Writing places of the original items

Library keeping the **primary sources** 

Place of conception of the work

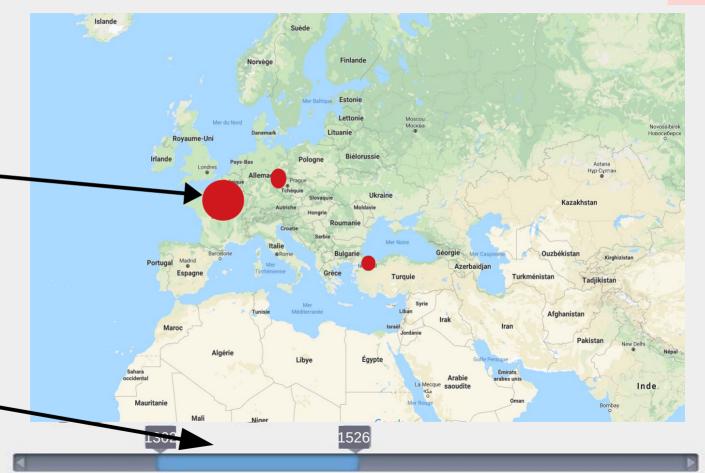
#### Edited text Table content

Mathematical context



Density of original item — using the same parameter set

Cursor to set a time period



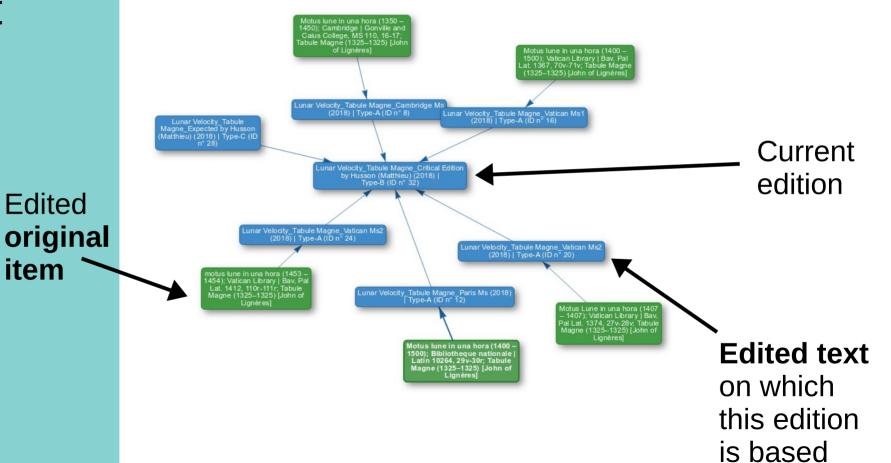
#### Edited text Table content

**Edited** 

item

## Editorial context

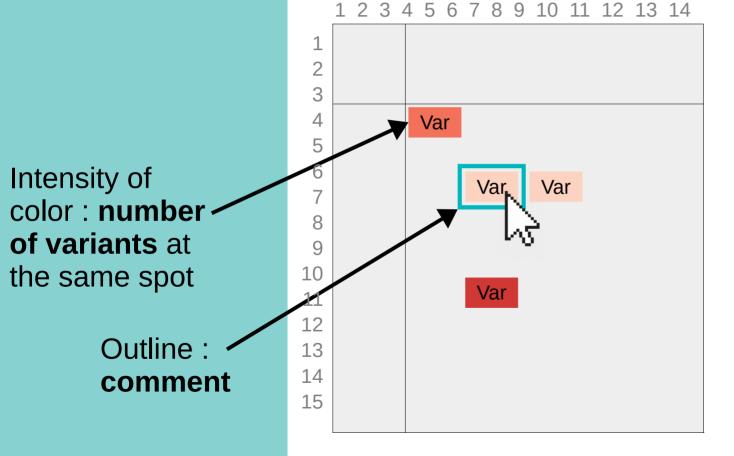




# Table content

#### Table content





Metadata of the cell that was clicked

Location 8 – 7

#### <u>Variants</u>:

- Ms 1 : 12
- Ms 2 : 13
- Ep 3:11

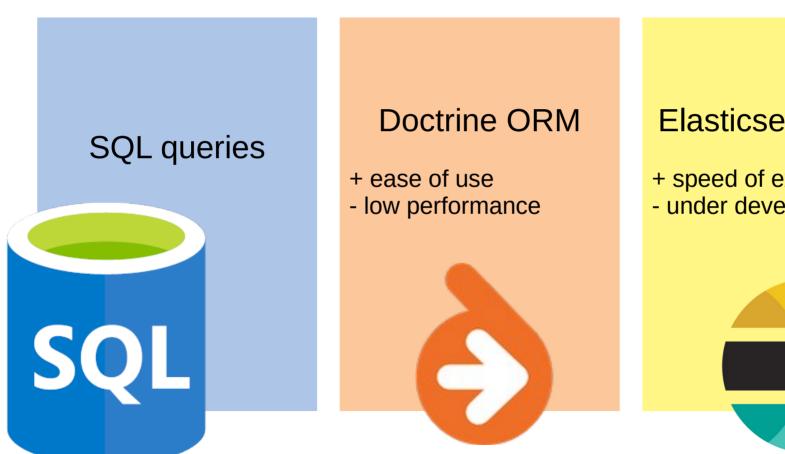
#### Comment:

« blah blah blah »

Link to modify the table in DTI

# Exposing the data: technical choices

# Three way to query the database



#### Elasticsearch API

- + speed of execution
- under development



# Technologies for visualization

#### Visualization Software

- + graphic interface
- + no loading time
- static views
- not very customizable



# Javascript librairies

- + great diversity available- no control over updates
- & backward compatibility



#### Kibana

- + graphic interface
- + easy installation with elastic search
- not designed for public visualizations



# Choice of a javascript library



- Versatile library : chart, map, animated graph
- A lot of documentation available
- Interesting features : zoom, exports, etc.
- Easy implementation and handling
- Pricing: free on given conditions