

Info Challenge 2023

WoPoss Project

University of Neuchatel, Switzerland

IC 23025

Credits

Meet the team

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Pooja Gajera

Pratyा Nellore

Shaunak Bhanarkar

Brief

Pygmalion is a tool that can draw visualizations of the meanings associated with a word. How can we make this a powerful tool in the fields of research and learning?

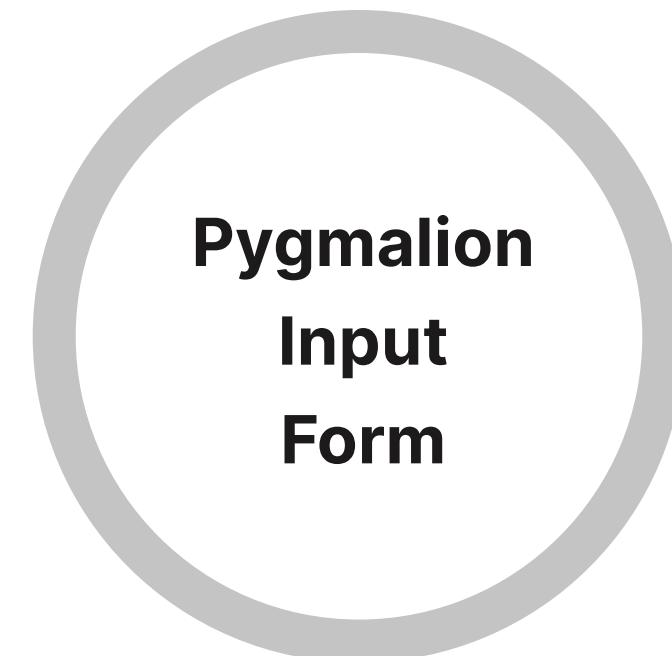
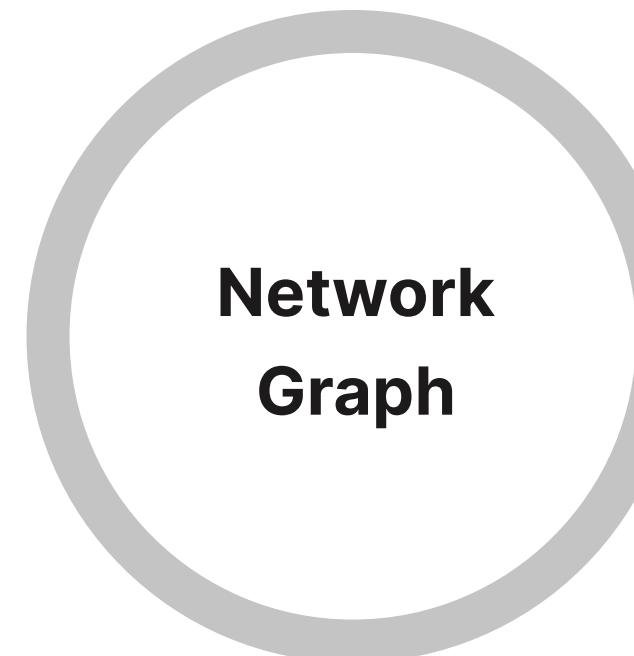
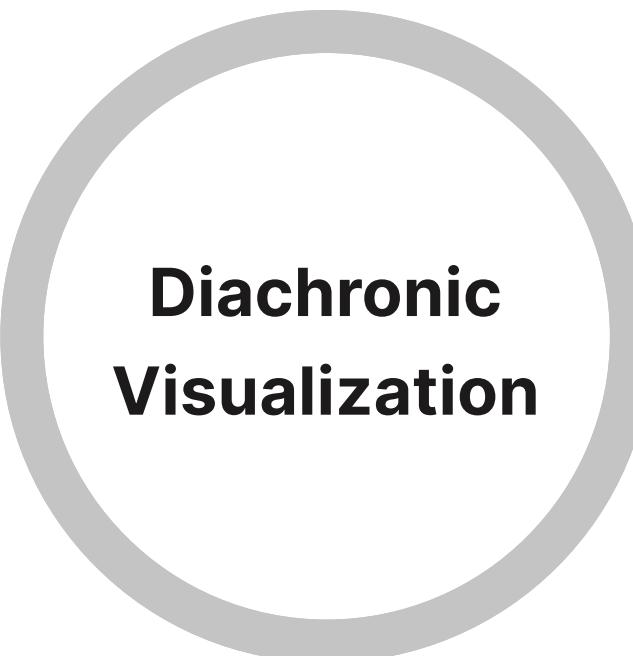
The Problem

What is the Challenge?



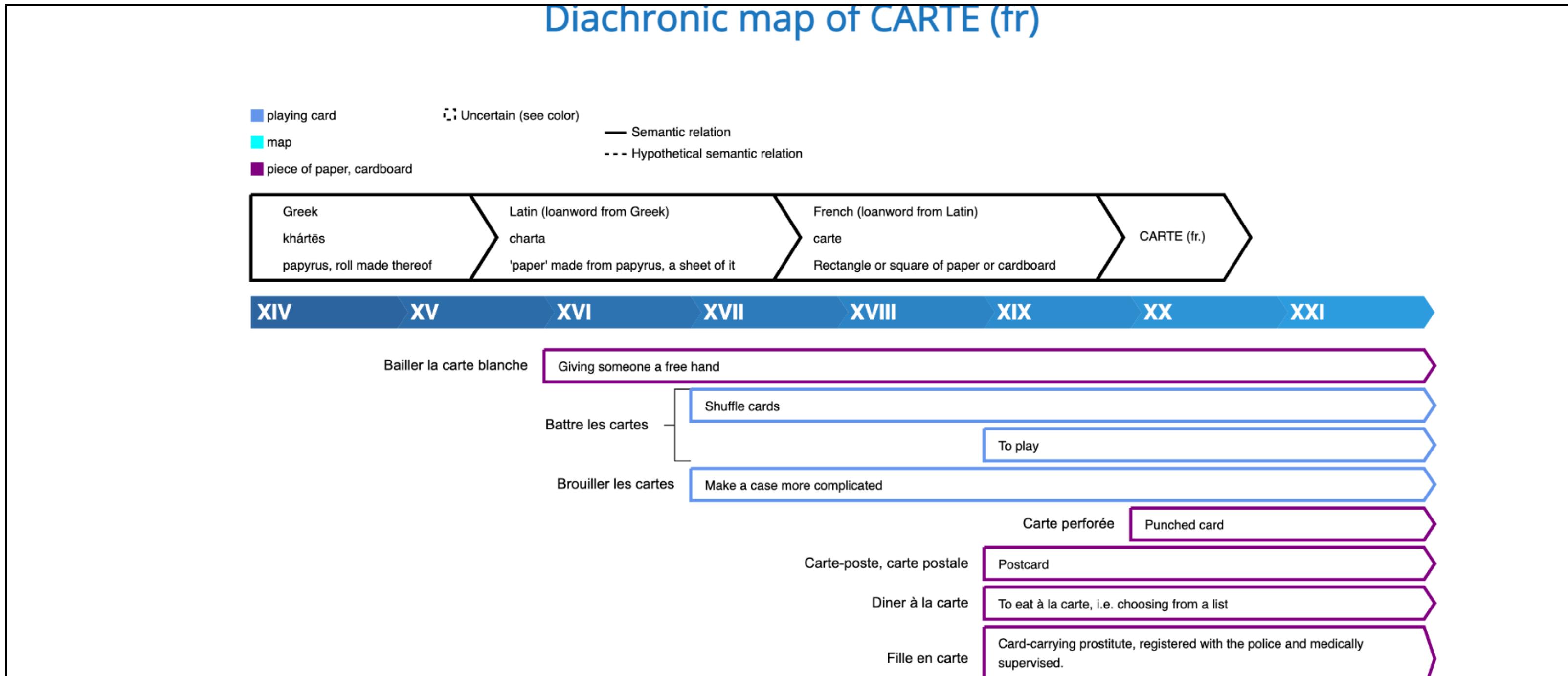
We identified **3 functionalities** that are key for the Pygmalion tool to work

On exploring them, we found **Usability, Understandability, Visual Design** issues that we aimed to improve



Diachronic Map

Diachronic Map



Observed Pain Points

- **Visualization** - *hard to read and understand*
- **Sorting** - *hard to find and access by the user*
- **Interactions** - *Traversing through the hierarchy of the generated maps is hard*
- **Key Legend** - *Visual cues and guides to help understand the map missing*
- **Relevance and Use** - *How to make this a useful tool for teachers and researchers alike?*

Proposed Solutions:

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CARTE (fr)

- Semantic relation
- Hypothetical semantic relation

[Diachronic map](#)[Network graph](#)[Export Map Data](#)[Save Map As](#)

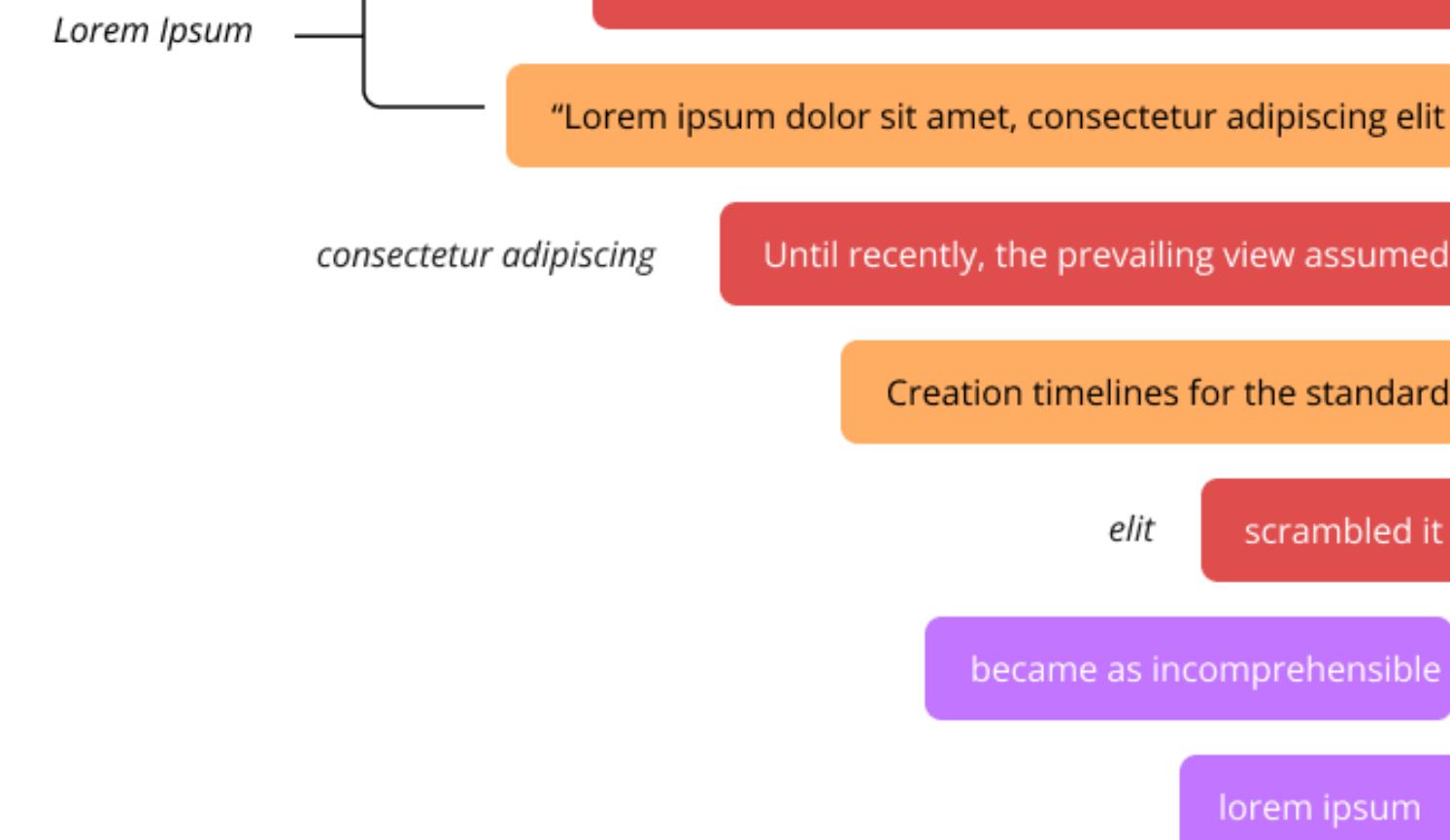
14th 15th 16th 17th 18th 19th 20th 21st

Centuries

Sort by

**Constructions/
collocations**

- playing card
- map
- piece of paper,
cardboard
- Uncertain

[Collocation](#) [meaning](#)

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cardboard Uncertain[Collocation](#) [meaning](#)[14th](#) [15th](#) [16th](#) [17th](#) [18th](#) [19th](#) [20th](#) [21st](#)

Centuries

Lorem ipsum

Lorem ipsum, or ipsum as it is sometimes known

"Lorem ipsum dolor sit amet, consectetur adipiscing elit"

consectetur adipiscing

Until recently, the prevailing view assumed

Creation timelines for the standard

elit

scrambled it



CARTE (fr)

— Semantic relation
---- Hypothetical semantic relation



Diachronic map

Network graph

Export Map Data

Save Map As ▾

14th 15th 16th 17th 18th 19th 20th 21st

Centuries

Sort by

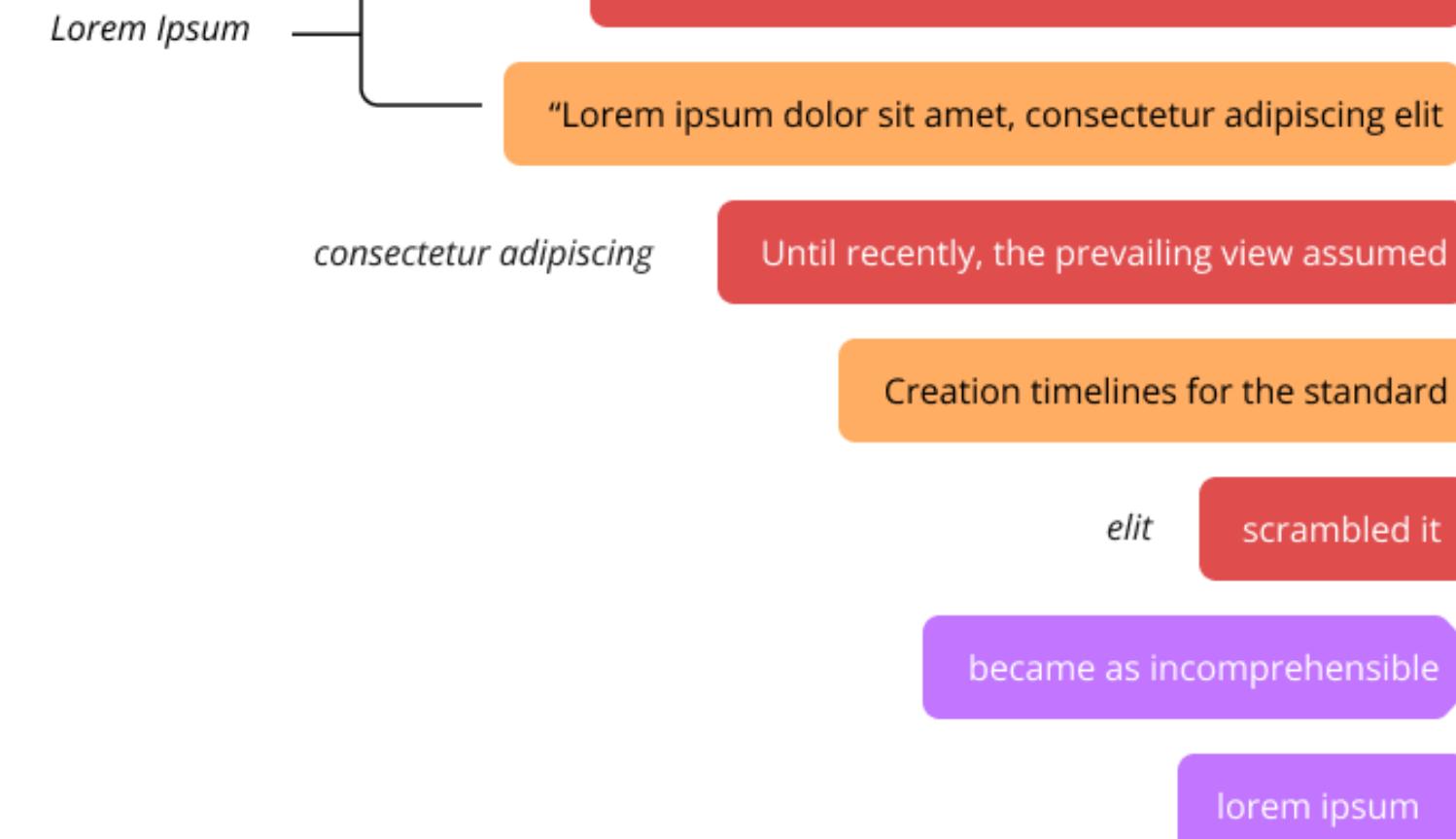
Constructions/ collocations (selected)

Constructions/ collocations

Groups

Chronology

Collocation meaning



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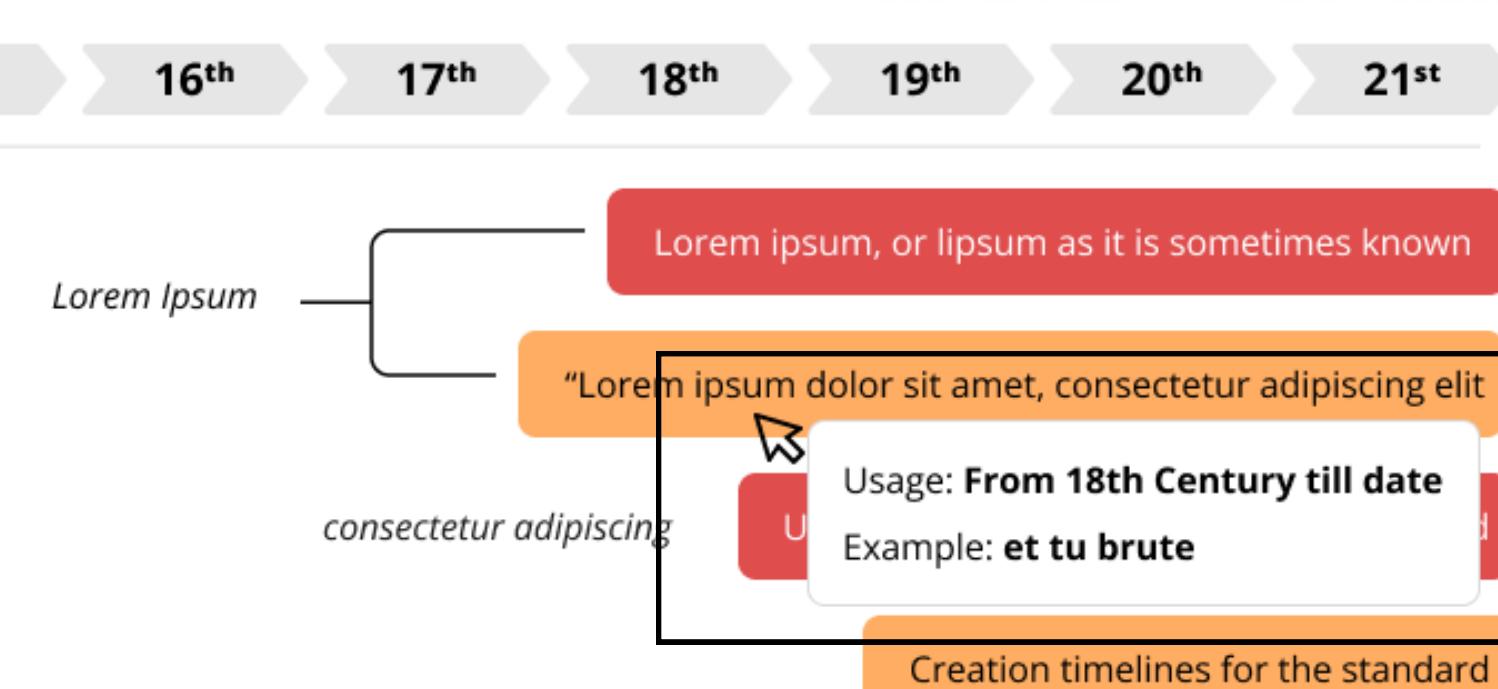
14th 15th 16th 17th 18th 19th 20th 21st

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[Collocation](#) [meaning](#)

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became as incomprehensible

lorem ipsum

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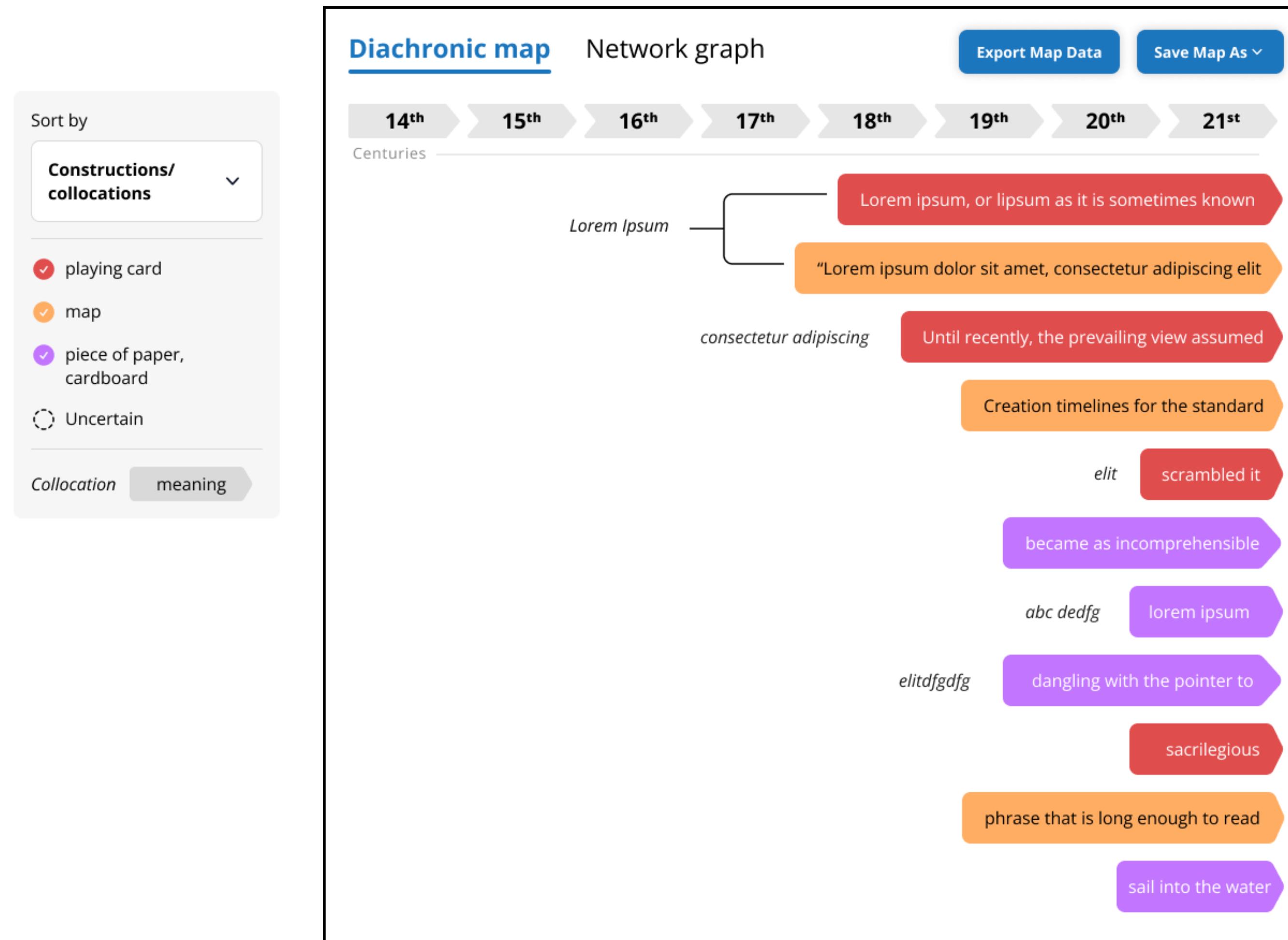
[Collocation](#) [meaning](#)14th15th16th17th18th19th20th21st

Centuries

became as incomprehensible

lorem ipsum

[Reset graph](#)



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CARTE (fr)

- Semantic relation
- Hypothetical semantic relation



Diachronic map

Network graph

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SVG

PNG

14th 15th 16th 17th 18th 19th 20th

Centuries

Sort by

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- playing card
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cardboard
- Uncertain

[Collocation](#) [meaning](#)

Lorem Ipsum

consectetur adipiscing

Until recently, the prevailing view assumed

Creation timelines for the standard

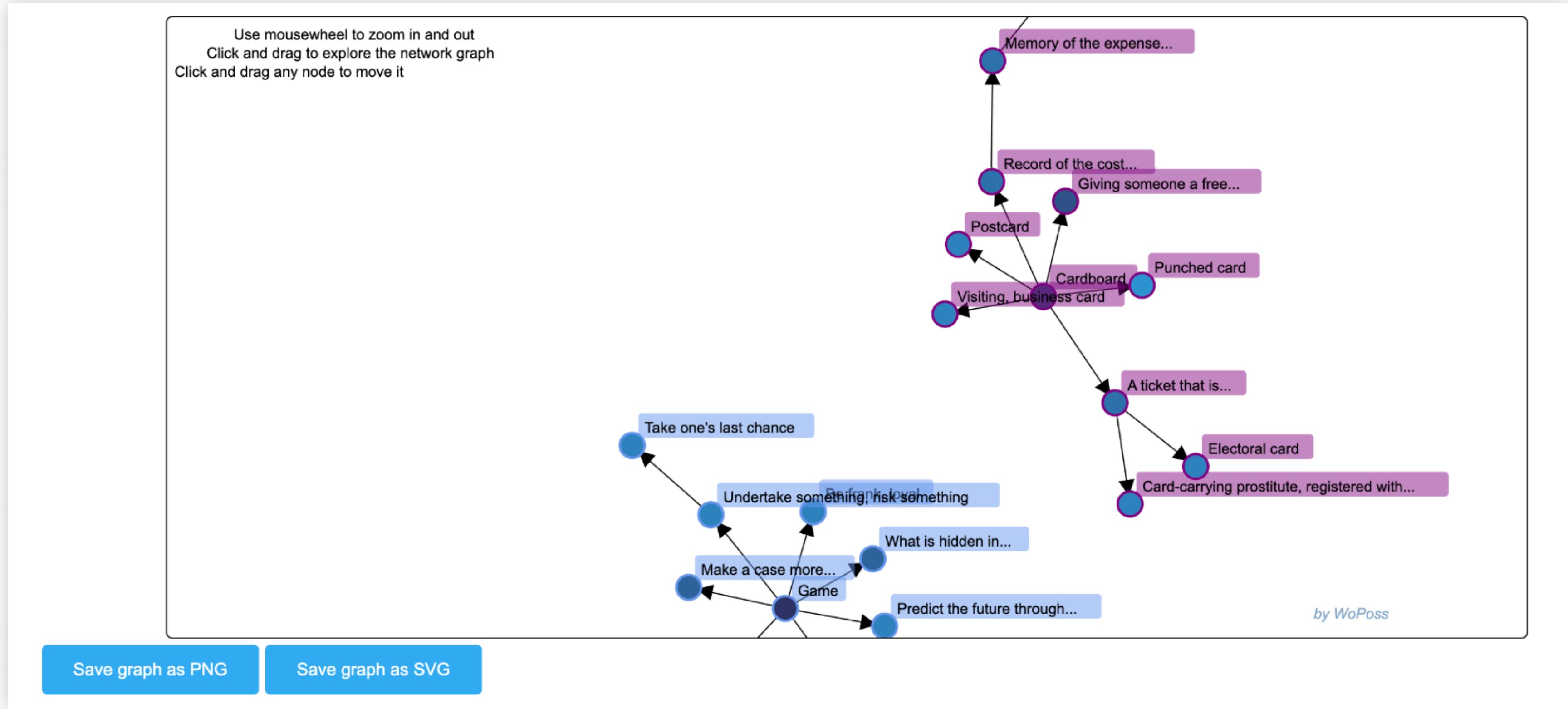
elit scrambled it

became as incomprehensible

lorem ipsum

Network Graph

Network Graph



Observed Pain Points

- **Visualization** - *difficulty to navigate and find*
- **Accessibility** - *mouse interactions to move the graph are difficult*
- **Interactions** - *hinder ease of use and understanding of the map*

Proposed Solutions:

CARTE (fr)

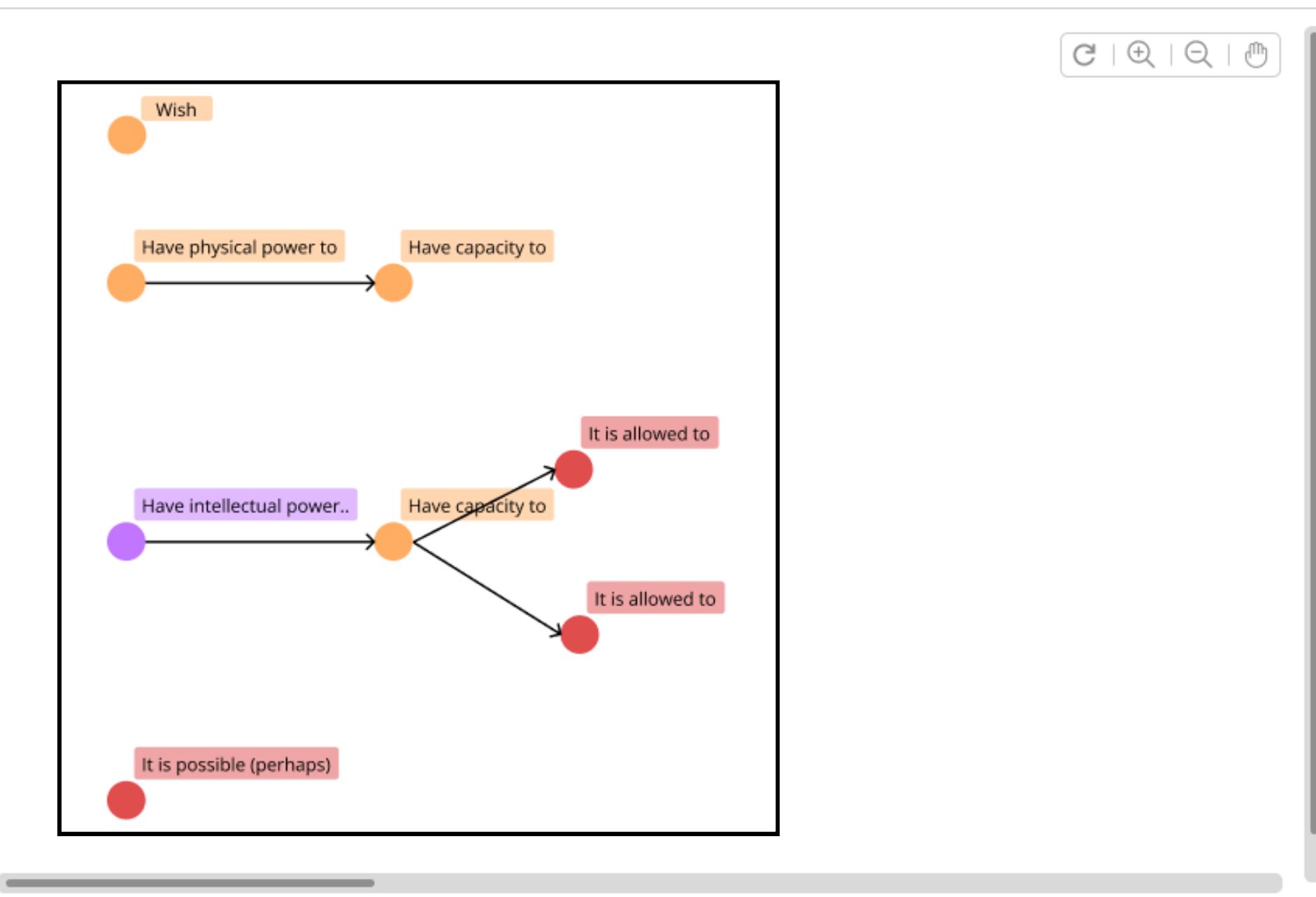
- Semantic relation
- Hypothetical semantic relation



Diachronic map

[Network graph](#)[Export Map Data](#)[Save Map As ▾](#)

- playing card
- map
- piece of paper,
cardboard



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CARTE (fr)

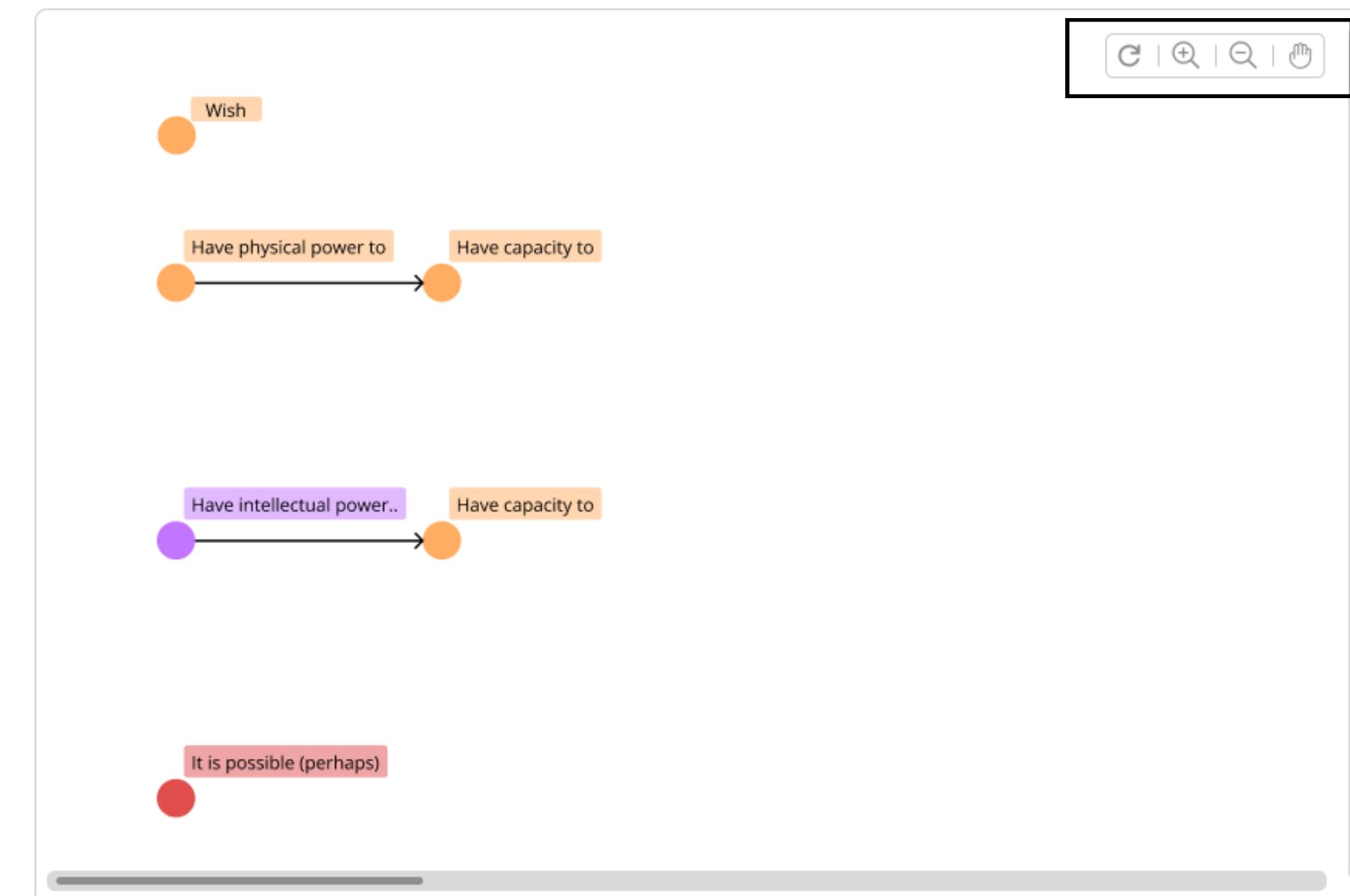
- Semantic relation
- - - Hypothetical semantic relation



Diachronic map

[Network graph](#)[Export Map Data](#)[Save Map As ▾](#)

- playing card
- map
- piece of paper, cardboard



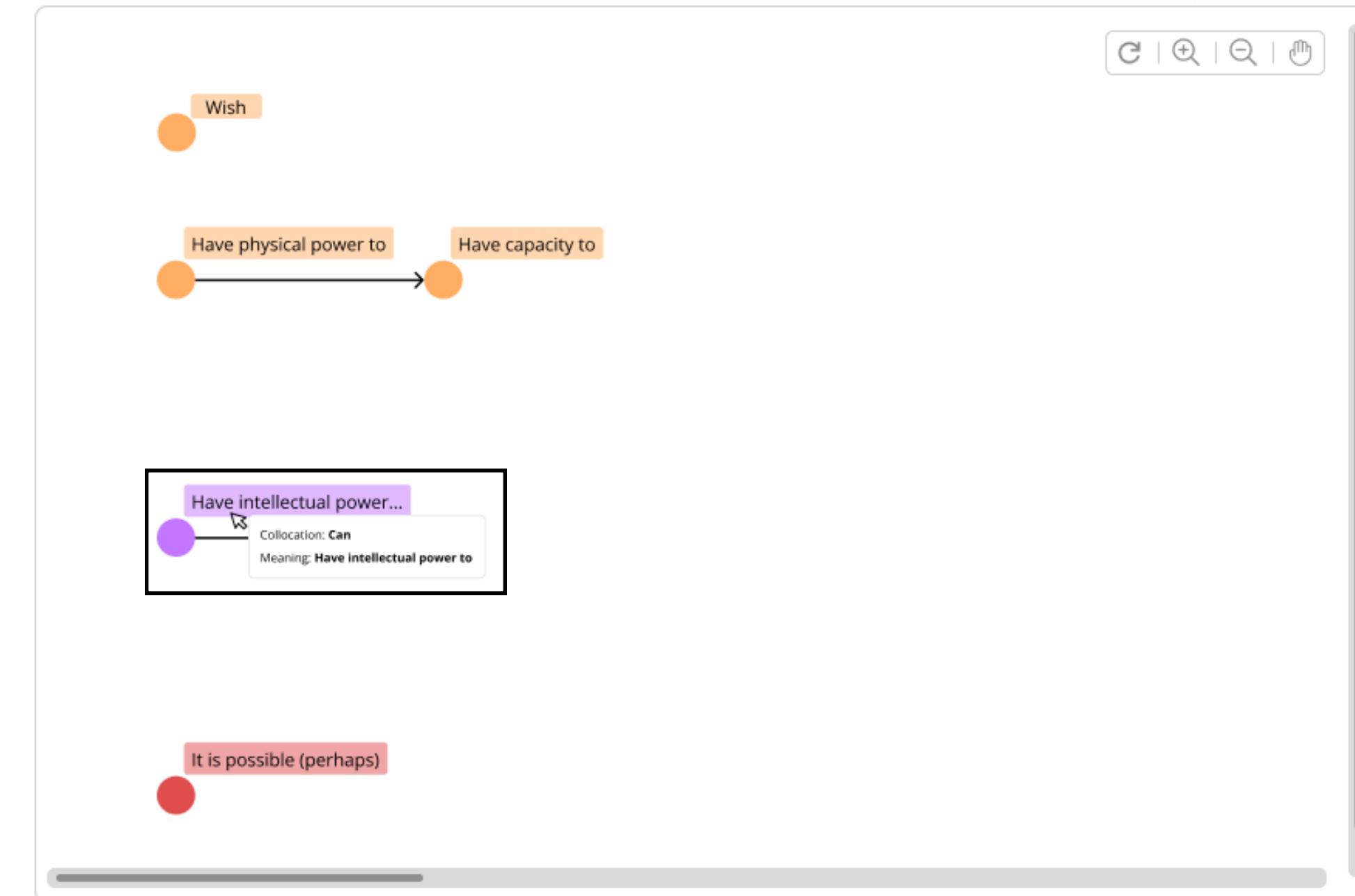
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Pygmalion Input Form

Observed Pain Points

- **Labeling** - *can be confusing to understand what information is needed*
- **Error Handling** - *no clear error message and instructions to correct the issue*
- **Cluttered layout** - *cluttered layout that may overwhelms user with too much information*

Pygmalion Tool Form

Semantic information

Headword

Please enter the word you want to draw a map of...

Etymology

Proceed without etymology

Flag etymology as unknown

Add etymological step

Date format

Centuries

Meanings

Submit form

Add new meaning

This project has received funding from the [Swiss National Science Foundation](#) (SNSF n° 176778) and it is hosted at the [Institut des sciences du langage](#) (University of Neuchâtel)



**Swiss National
Science Foundation**

unine
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Institut des sciences du langage
Université de Neuchâtel



Contact us!



Twitter: @woposs

git

<https://github.com/WoPoss-project>

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Pygmalion Tool

Add your words and meaning for which you want to create a diachronic map!

Semantic Information

* Headword i

Type the word you want to add

* Date format i

Select the Date Format

Etymology known

Add Etymology

Add Meaning

* Meaning i

Add meaning/ function/ use of the headboard

Collocation i

Semantic Group i

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Pygmalion Tool

Add your words and meaning for which you want to create a diachronic map!

Semantic Information

Headword

Taut

Date format

Centuries

 Etymology known Add Etymology

Add Etymology



Language/ Period

PIE

Etymological form

Enter the Etymology form

Short Definition

Short, one-word definition

 Etymology is certain[+ Add New Etymology](#)

Add Meaning

* Meaning i

Add meaning/ function/ use of the headboard

Collocation i

Add New Collocation

Semantic Group i

Add New Semantic Group

Add Description

* Analysis i

Add New Analysis



Date of meaning emergence i

Enter the emergence date such as Century, Periods, Years

Date of meaning disappearance i

Enter the disappearance date such as Century (II BC, I BC)

First attestation and/or example i

Enter the emergence date such as Century, Periods, Years

Analysis is certain

+ Add New Description

+ Add New Meaning

Add Meaning

* Meaning 

Add meaning/ function/ use of the headboard

Collocation 

Add New Collocation

Semantic Group 

Add New Semantic Group

Add Description

* Analysis 

Add New Analysis

Date of meaning emergence 

Enter the emergence date such as Century, Periods, Years

Enter the disappearance date such as Century (II BC, I BC)

First attestation and/or example 

Enter the emergence date such as Century, Periods, Years

Analysis is certain

Please specify the name for the new collocation



Confirm

Add Meaning

* Meaning i

Add meaning/ function/ use of the headboard

Collocation i

Select Collocation

Semantic Group i

Add New Semantic Group

--

taut



Add new collocation

Add New Analysis

Add Meaning

* Meaning 

Add meaning/ function/ use of the headboard

* Please add the meaning

Collocation 

Select Collocation 

--

taut

Add new collocation

Semantic Group 

Add New Semantic Group





Pygmalion Tool

Add your words and meaning for which you want to create a diachronic map!

Semantic Input

This is the word or concept to be described

Headword

Taut

Date format

Centuries

Etymology known

Add Etymology

Add Etymology



Language/ Period

Etymological form

Short Definition

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Pygmalion Tool

Add your words and meaning for which you want to create a diachronic map!

Semantic Relationships

Add Semantic Relation

First definition i

No Selection

Direction i

No Selection

Second Definition i

No Selection

 Relationship is certain[+ Add New Etymology](#)[← Back](#)[Submit Form](#)

Further Improvements

- To make the tool more efficient, relevant and versatile, it is important to think about the information architecture of the over all website.
- Making the tool easy to find might increase the number of users that will be able to make use of this.
- Adding more tutorials and guides for first time users and to give more context to students and tools to work with for teachers.

Thank You