Arthur Perret, Université Jean Moulin Lyon 3

FOSDEM – February 2, 2024

1. Architecture
interactive publications

2. Features
information management

Arthur Perret

Design, documentation

Guillaume Brioudes

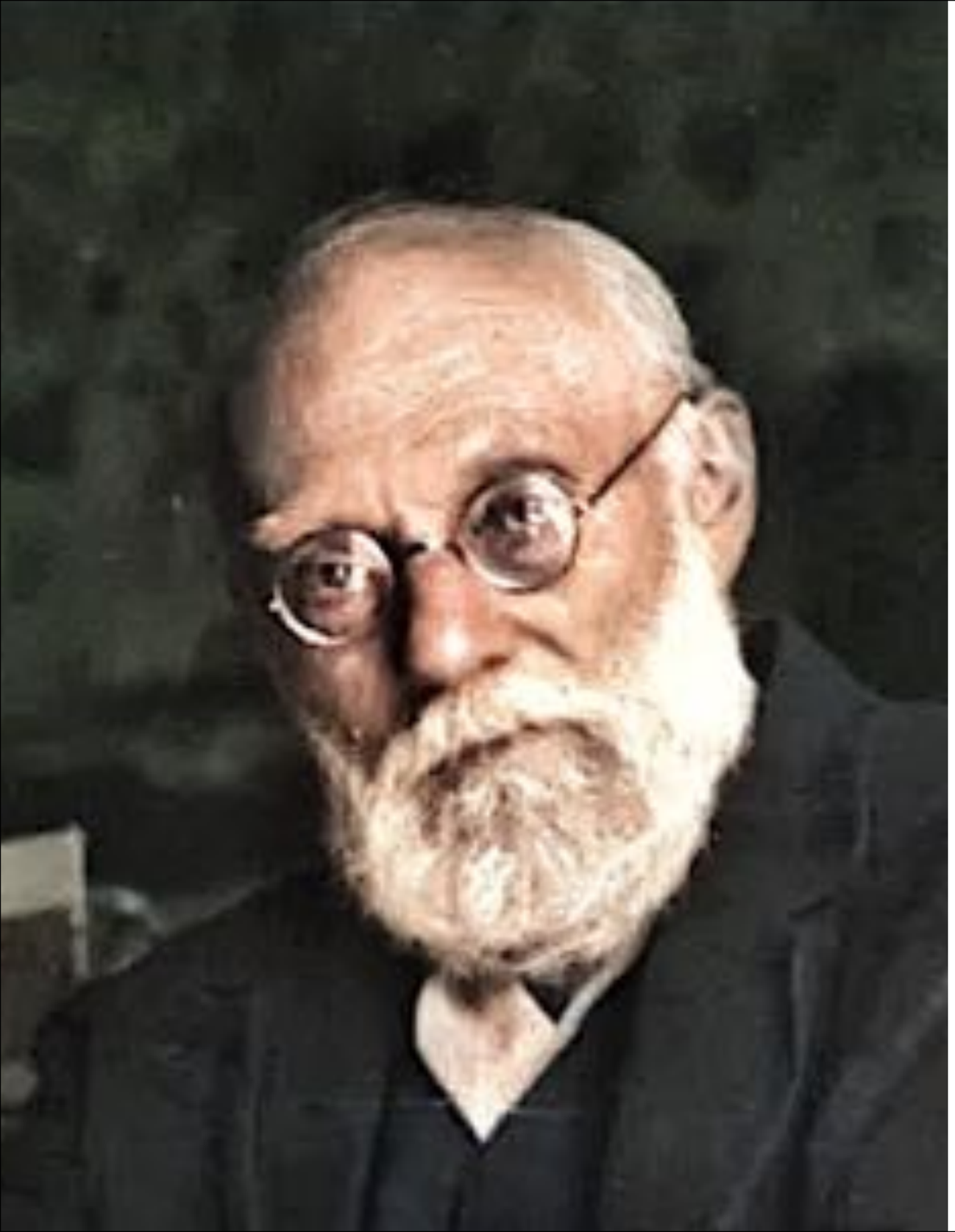
Development

Olivier Le Deuff,
Clément Borel

Design

David Pucheu,
Rayya Roumanos

Design (v2)

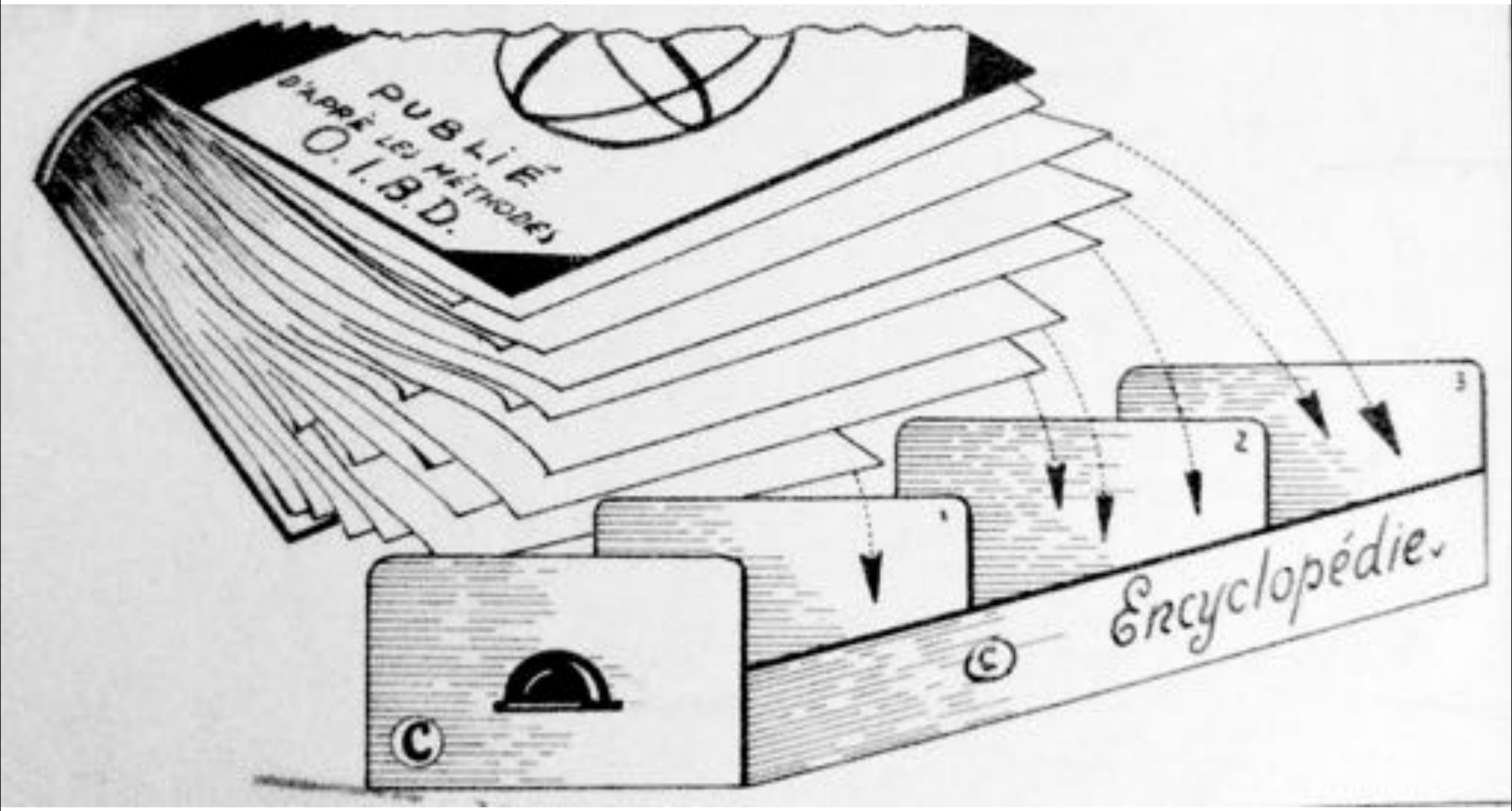


Paul Otlet

(1868-1944)

HyperOtlet

(2017)


PUBLIÉ
D'APRÈS LES MÉTHODES
O.I.B.D.
1
2
Encyclopédie.

Mundaneum

Mons, Belgium

hyperotlet.huma-num.fr/otletosphere/fr

OTLETOSPHÈRE

Réseau Fiches

FR / EN À propos

Rechercher

Otlet | famille | collègues | collaborateurs | opposants | non-classé | autres | événements | institutions

Paul Otlet

Godfrey Dewey

Adolphe Ferrière

Andrew Carnegie

Union de la presse périodique

Josefa Jateyko

Ernest Solvay

Charles L

Elisée Reclus

CDU

Gonzague de Reyn

Paul Otlet

Henri La Fontaine

Hector Denis

Fellows Dorkas

Edmond

Edou

H.G. Wells

Emile Waxweiler

Anna Oderfeld

Charles Richet

Réinitialiser

Paul Otlet

1868 - 1944

Fondateur du Mundaneum

W

Permalien

pays Belgique

domaine Bibliographie

Paul Otlet est la tête pensante du Mundaneum, qui est le lieu de rassemblement de la connaissance qui héberge notamment le Répertoire Bibliographique Universel. Il a consacré toute sa vie à développer cet organisme ainsi que le réseau de personnalités et d'institutions qui l'entourent.

Connexions

- Adolphe Ferrière
- Adolphe Quetelet
- Albert Thomas
- Aleksandr Nikolaevich Briantzchaninoff de Starya Lipy
- Alfred Herrmann Fried
- André Colet

evergreen-notes.md

```
---
title: Evergreen notes
type: concept
---

Evergreen notes are written and organized
to evolve, contribute, and accumulate over
time, across projects. This is an unusual
way to think about writing notes: most
people take only transient notes. That's
because these practices aren't about
writing notes; they're about effectively
developing insight: "Better note-taking"
misses the point; what matters is "better
thinking". When done well, these notes can
be quite valuable.

Evergreen notes can be created with
[[adjacent concept:tools for thought]].
```

evergreen-notes-should-be-atomic.md

```
---
title: Evergreen notes should be atomic
type: insight
---

[[Evergreen notes]] should be atomic. It's
best to create notes which are only about
one thing–but which, as much as possible,
capture the entirety of that thing.
```

```
---
title: Evergreen notes should be densely
linked
type: insight
---

If we push ourselves to add lots of links
between our notes, that makes us think
expansively about what other concepts might
be related to what we're thinking about. It
creates pressure to think carefully about
how ideas relate to each other (see
[[Evergreen notes should be
concept-oriented]]). It'll also help you
internalize the ideas more deeply.
```

evergreen-notes-should-be-concept-oriented.md

```
---
title: Evergreen notes should be
concept-oriented
type: insight
---

It's best to factor [[evergreen notes]] by
concept (rather than by author, book,
event, project, topic, etc). This way, you
discover connections across books and
domains as you update and link to the note
over time.
```

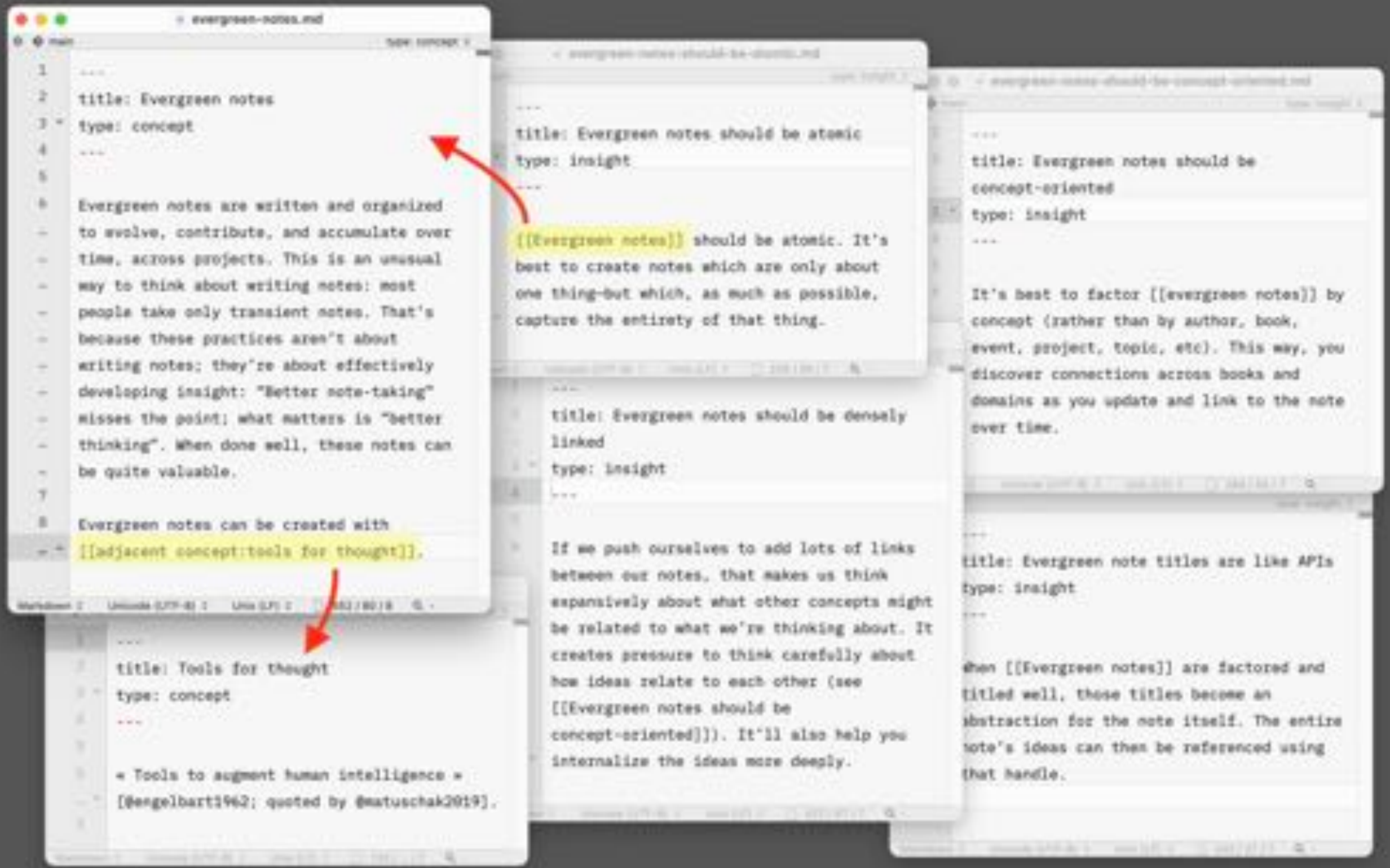
```
---
title: Tools for thought
type: concept
---

« Tools to augment human intelligence »
[@engelbart1962; quoted by @matuschak2019].
```

```
---
title: Evergreen note titles are like APIs
type: insight
---

When [[Evergreen notes]] are factored and
titled well, those titles become an
abstraction for the note itself. The entire
note's ideas can then be referenced using
that handle.
```

(example adapted from Andy Matuschak's public notes)


evergreen-notes.md
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title: Evergreen notes
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Evergreen notes are written and organized to evolve, contribute, and accumulate over time, across projects. This is an unusual way to think about writing notes: most people take only transient notes. That's because these practices aren't about writing notes; they're about effectively developing insight: "Better note-taking" misses the point; what matters is "better thinking". When done well, these notes can be quite valuable.
Evergreen notes can be created with [[adjacent concept:tools for thought]].
---
title: Evergreen notes should be atomic
type: insight

[[Evergreen notes]] should be atomic. It's best to create notes which are only about one thing-but which, as much as possible, capture the entirety of that thing.
---
title: Evergreen notes should be densely linked
type: insight

If we push ourselves to add lots of links between our notes, that makes us think expansively about what other concepts might be related to what we're thinking about. It creates pressure to think carefully about how ideas relate to each other (see [[Evergreen notes should be concept-oriented]]). It'll also help you internalize the ideas more deeply.
---
title: Evergreen notes should be concept-oriented
type: insight

It's best to factor [[evergreen notes]] by concept (rather than by author, book, event, project, topic, etc). This way, you discover connections across books and domains as you update and link to the note over time.
---
title: Tools for thought
type: concept

« Tools to augment human intelligence »
[@engelbart1962; quoted by @matuschak2019].
---
title: Evergreen note titles are like APIs
type: insight

When [[Evergreen notes]] are factored and titled well, those titles become an abstraction for the note itself. The entire note's ideas can then be referenced using that handle.

cosmoscope.html

A TEST OF COSMA

Search... (S)

▼ TYPES 0
- Insight 3
- concept 1

▼ INDEX 4

A-Z

- Evergreen notes
- Evergreen notes should be atomic
- Evergreen notes should be concept-oriented
- Evergreen notes should be densely linked

▶ VIEWS 0

▶ GRAPH PARAMETERS

Help | Made with Cosma – About

- Reset (R) +
- Focus (F)
- Chronological

Close (Escape)

Evergreen notes should be concept-oriented

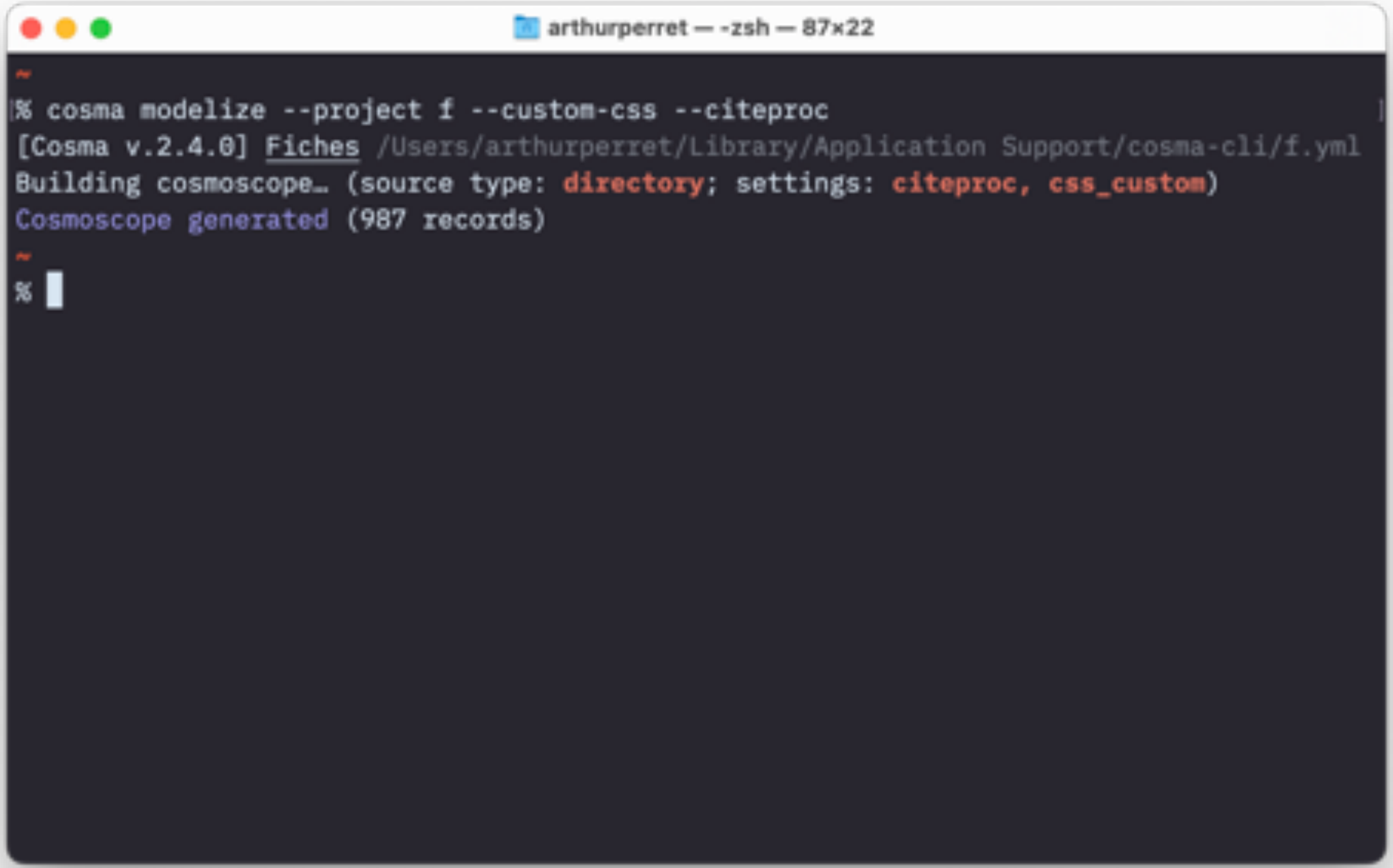
TYPES : Insight

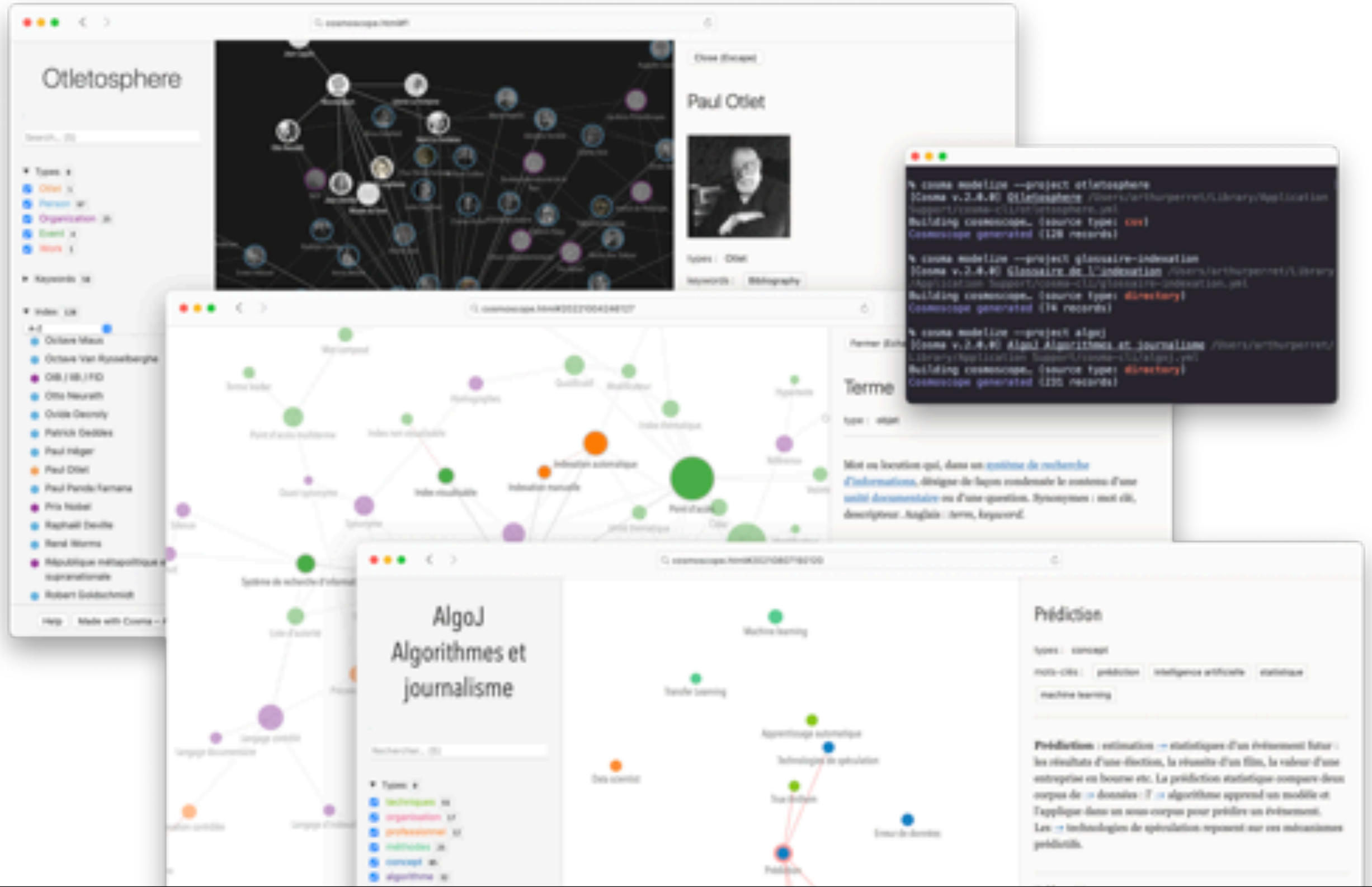
It's best to factor Evergreen notes by concept (rather than by author, book, event, project, topic, etc). This way, you discover connections across books and domains as you update and link to the note over time.

▼ LINKS 1
- Evergreen notes

▼ BACKLINKS 1
- Evergreen notes should be densely linked

1. Architecture


arthurperret — -zsh — 87×22
~
% cosma modelize --project f --custom-css --citeproc
[Cosma v.2.4.0] Fiches /Users/arthurperret/Library/Application Support/cosma-cli/f.yml
Building cosmoscope… (source type: directory; settings: citeproc, css_custom)
Cosmoscope generated (987 records)
~
%


Otletosphere
Paul Otlet
Terme
AlgoJ
Algorithmes et
journalisme
Prédiction
% cosma modelize --project otletosphere
% cosma modelize --project glossaire-indexation
% cosma modelize --project algoj

2. Features

Réinitialiser (R)

Focus (F)

Tools for thought

TYPES : concept

« Tools to augment human intelligence » (Engelbart, 1962 ; quoted by Matuschak, Nielsen, 2019).

Bibliographie

ENGELBART, Douglas C. 1962. *AFOSR-3223: Augmenting Human Intellect: A Conceptual Framework* [en ligne]. SRI Summary Report. Stanford : Stanford Research Institute. Disponible à l'adresse : https://www.dougengelbart.org/content/view/138/

MATUSCHAK, Andy et NIELSEN, Michael, 2019. How can we develop transformative tools for thought? [en ligne]. Disponible à l'adresse : https://numinous.productions/ttft/

LIENS 2

RÉTROLIENS 1

- [adjacent concept] Evergreen notes

> Evergreen notes can be created with tools for thought.

TEST

Rechercher... [S]

▼ TYPES

- Insight 4
- concept 2
- reference 2

▼ INDEX

A-Z

- Augmenting Human Intellect: A Conceptual Framework
- Evergreen notes
- How can we develop transformative tools for thought?
- Tools for thought

▶ VUE

▶ PARAMÈTRES DU GRAPHE

Réinitialiser (R)

Focus (F)

DONNÉES MISE FABRIQUÉ AVEC COSMA – À PROPOS

Réinitialiser (R)

Focus (F)

Tools for thought

TYPES : concept

« Tools to augment human intelligence » (Engelbart, 1962 ; quoted by Matuschak, Nielsen, 2019).

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LIENS 2

RÉTROLIENS 1

- [adjacent concept] Evergreen notes

> Evergreen notes can be created with tools for thought.

Tools for thought

TYPES : concept

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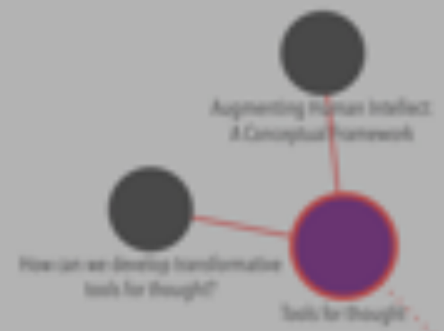
MATUSCHAK, Andy et NIELSEN, Michael, 2019. How can we develop transformative tools for thought? [en ligne]. Disponible à l'adresse : https://numinous.productions/ttft/

▸ **LIENS** 2

▾ **RÉTROLIENS** 1

- (adjacent concept) Evergreen notes

> Evergreen notes can be created with tools for thought.



Tools for thought

TYPES : concept

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Bibliographie

ENGELBART, Douglas C. 1962. *APOSR-3223: Augmenting Human Intellect: A Conceptual Framework* [en ligne]. SRI Summary Report. Stanford : Stanford Research Institute. Disponible à l'adresse : https://www.dougengelbart.org/content/view/138/

MATUSCHAK, Andy et NIELSEN, Michael, 2019. How can we develop transformative tools for thought? [en ligne]. Disponible à l'adresse : https://numinous.productions/ttft/

▼ RÉTROLIENS 1

- (adjacent concept) Evergreen notes

> Evergreen notes can be created with tools for thought.

Réinitialiser (R)

Focus (F)

references.json — cosma-test

main (no function selected)

```
[
  {"id":"matuschak2019",
  "author":[
    {"family":"Matuschak","given":"Andy"},
    {"family":"Nielsen","given":"Michael"}
    ],
  "citation-key":"matuschak2019",
  "issued":{"date-parts":[[2019]]},
  "language":"en",
  "title":"How can we develop transformative tools for thought?",
  "type":"webpage",
  "URL":"https://numinous.productions/ttft/"},
  {"id":"engelbart1962",
  "author":[{"family":"Engelbart","given":"Douglas C"}],
  "citation-key":"engelbart1962",
  "event-place":"Stanford",
  "genre":"SRI Summary Report",
  "issued":{"date-parts":[[1962]]},
  "language":"en",
  "number":"AFOSR-3223",
  "publisher":"Stanford Research Institute",
  "publisher-place":"Stanford",
  "title":"Augmenting Human Intellect: A Conceptual Framework",
  "title-short":"Augmenting Human Intellect",
  "type":"report",
  "URL":"https://www.dougengelbart.org/content/view/138/"}
]
```

JSON Unicode (UTF-8) Unix (LF) 849 / 92 / 27

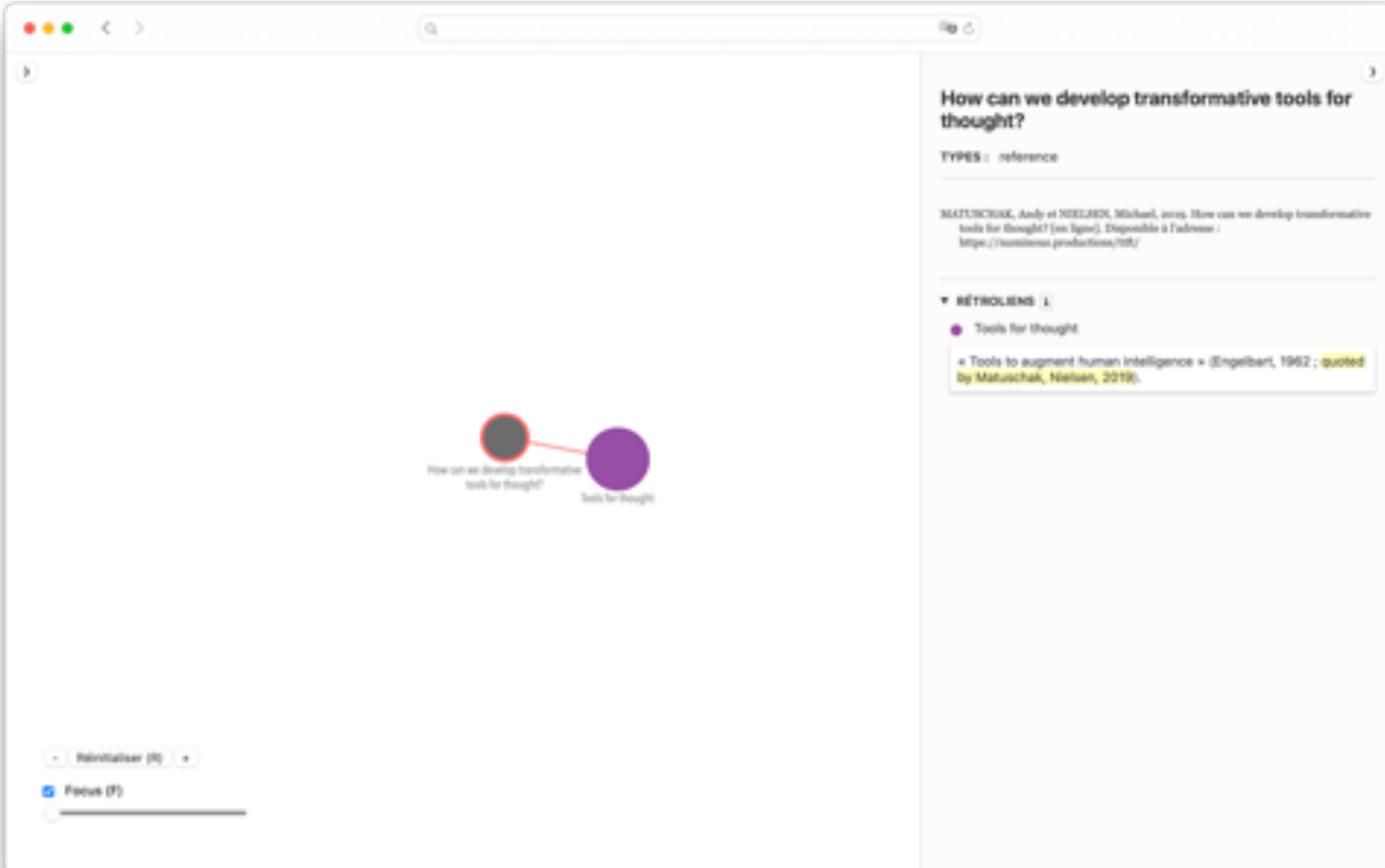
tools-for-thought.md

main type: concept

```
---
title: Tools for thought
type: concept
---

« Tools to augment human intelligence »
[@engelbart1962; quoted by @matuschak2019].
```

Markdown Unicode (UTF-8) Unix (LF) 132 / 15 / 7


How can we develop transformative tools for thought?
Tools for thought
Réinitialiser (R)
Focus (F)
How can we develop transformative tools for thought?
TYPES : reference
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RÉTROLIENS
Tools for thought
« Tools to augment human intelligence » (Engelbart, 1962 ; quoted by Matuschak, Nielsen, 2019).

Linking is a knowledge organization process

Linking as a way to classify:

Specific

```
---
title: Annotated
bibliography
type: concept
---

An annotated
bibliography is a kind
of [[bibliography]]
where discursive
annotations are added to
traditional
bibliographic metadata.
```

Generic

```
---
title: Bibliography
type: concept
---


Formerly the knowledge
about books. Nowadays
the art of presenting
information describing
documents.
```

Using link types:

```
---
title: Annotated bibliography
type: concept
---

An annotated bibliography is a kind of
[[generic:bibliography]] where discursive
annotations are added to traditional
bibliographic metadata.
```

Child

```
---
title: Dynamic medium
type: concept
---

The concept of dynamic
medium was imagined by
[[Alan Kay]].
```

Parent

```
---
title: Alan Kay
type: person
---

Alan Kay is an American
computer scientist.
```

Linking as a way to index:

```
---
title: Bibliothécaires et documentalistes
(Briet 1951)
type: publication
---

[[Suzanne Briet]] says [[Robert Pagès]]
was ahead of his time when he wrote about
[[documentation]].
```

Linking as a way to compose ideas:

```
---
title: The epistemic status of a card
evolves with time
type: idea
---

The [[epistemic status]] of a [[card]]
evolves with time.
```

Idea

```
---
title: The epistemic status of a
card evolves with time
type: idea
---

The [[epistemic status]] of a
[[card]] evolves with time.
```

Components

```
---
title: Epistemic status
type: concept
---

The epistemic status of an
assertion reflects the strength of
its justification, in accordance
with the epistemic constraints
with which it operates.
```

```
---
title: Card
type: concept
---

A card is a small flexible unit of
information.
```

Knowledge synthesis through network synthesis