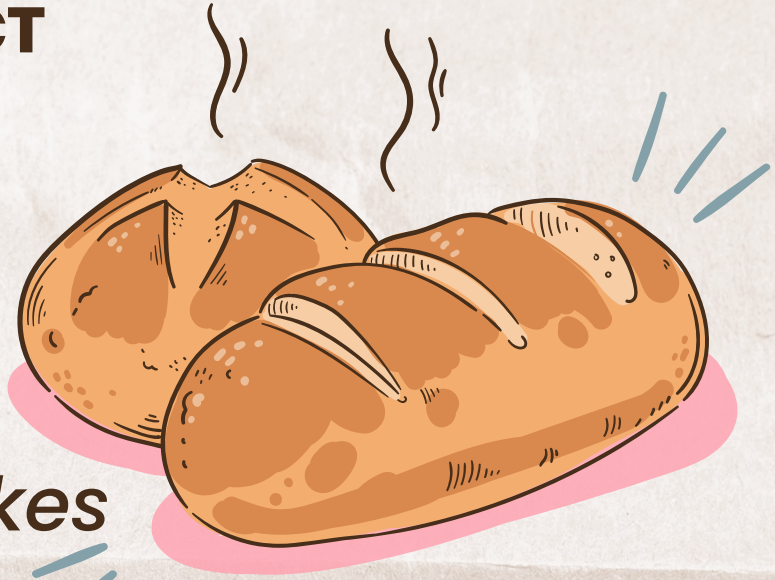
NETWORK SCIENCE PROJECT

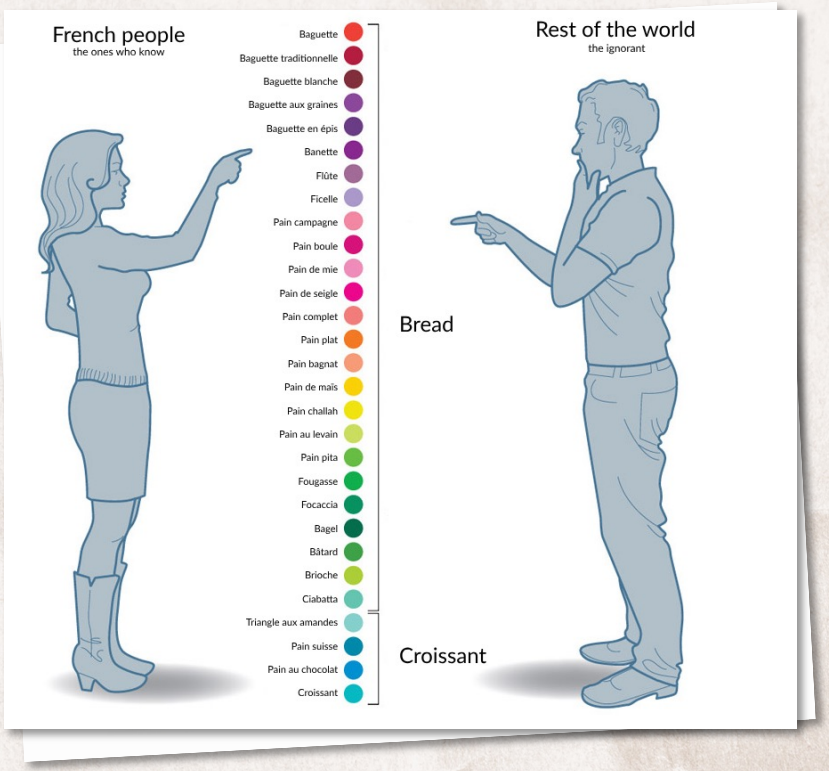
BAKERY SELLS STUDY

How French people categorize bread & cakes



Arthur LECOCQ

CONTEXT OF THE PROBLEM



PURPOSE OF THE STUDY

How to exploit previous transactions of the bakery to maximize sales?

Dataset from kaggle

QUESTIONS

SELLING PERIODS

Which periods are the most favourable to sell ?

ARTICLES TO SELL

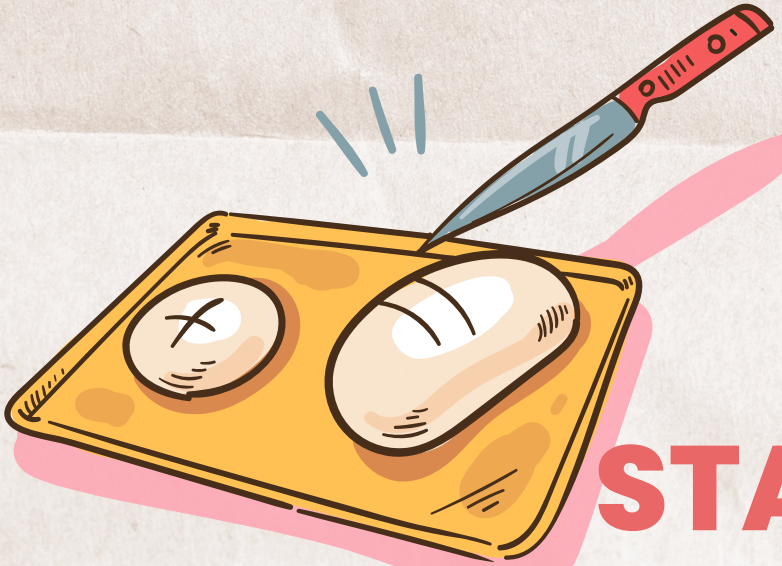
What articles are the most cost-effective ?

GROUPS & CATEGORIES

How can we group articles together ?

LINK BETWEEN ARTICLES

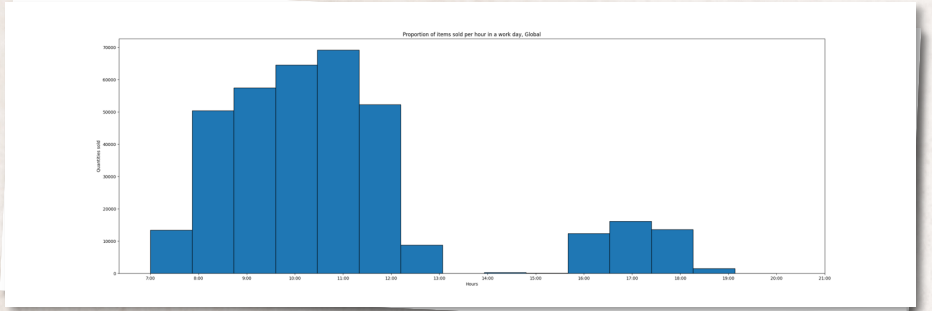
What are the links between each articles ?

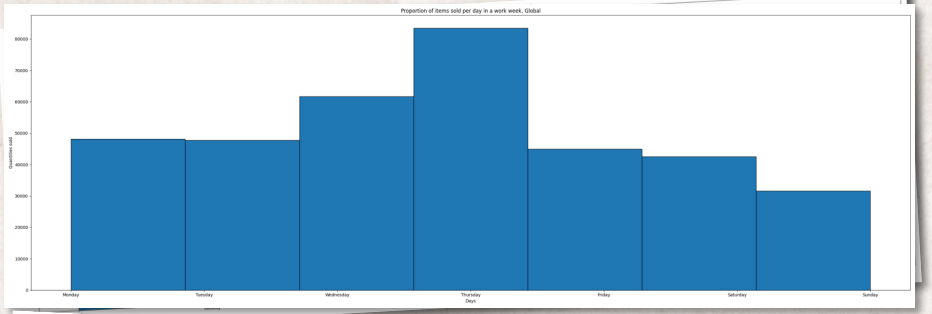


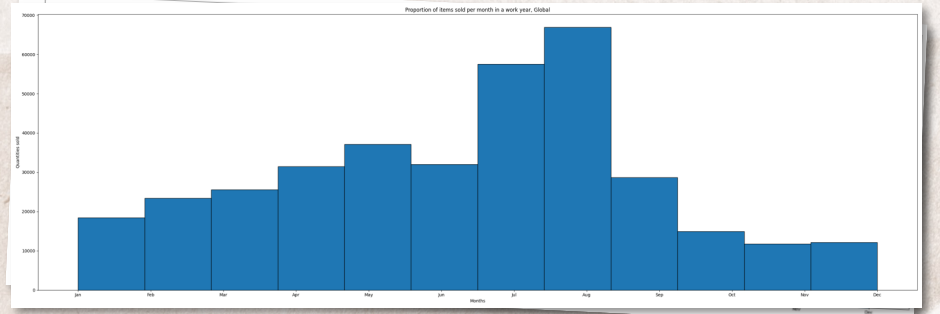
01

STATISTICS PART

Few funny information about sells in a bakery







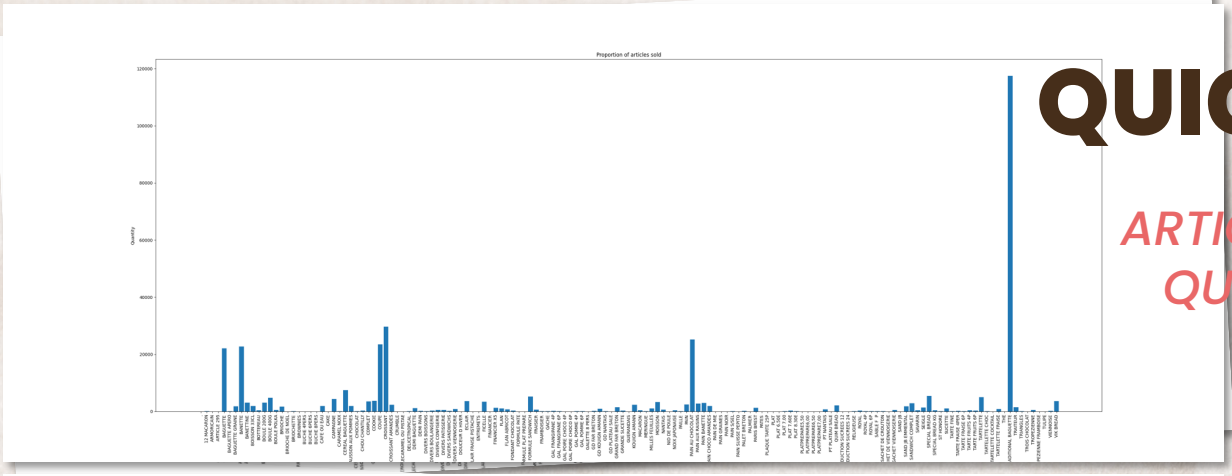
QUICK STATS

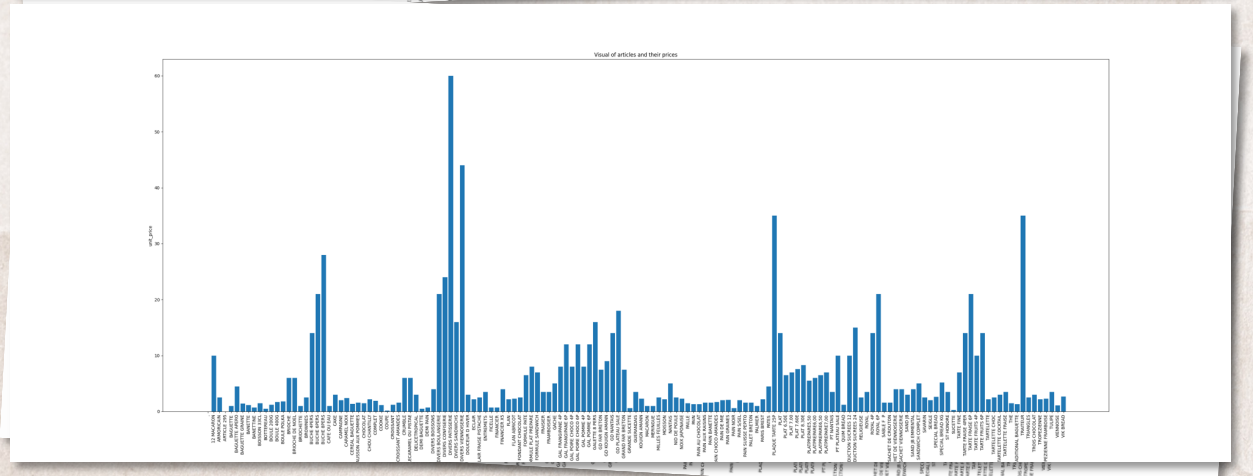
BEST PERIOD TO SELL BREAD

- During the day :
before noon

- During the week :
in the beginning of the week

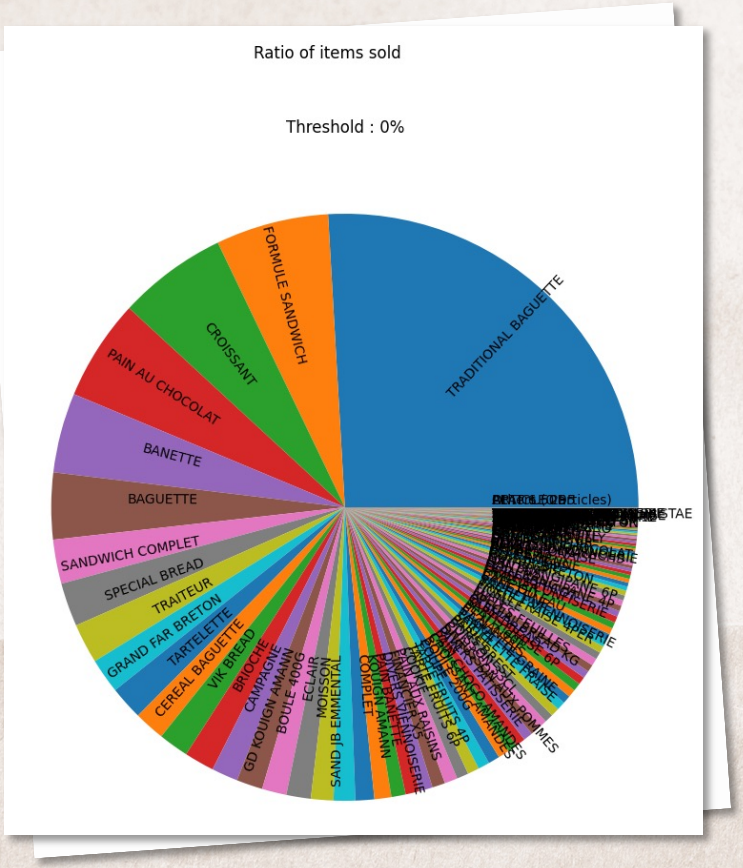
- During the year :
during summer





QUICK STATS

ARTICLES, PRICES & QUANTITY SOLD



QUICK STATS

ANNUAL SALES

TOP 5 Articles :

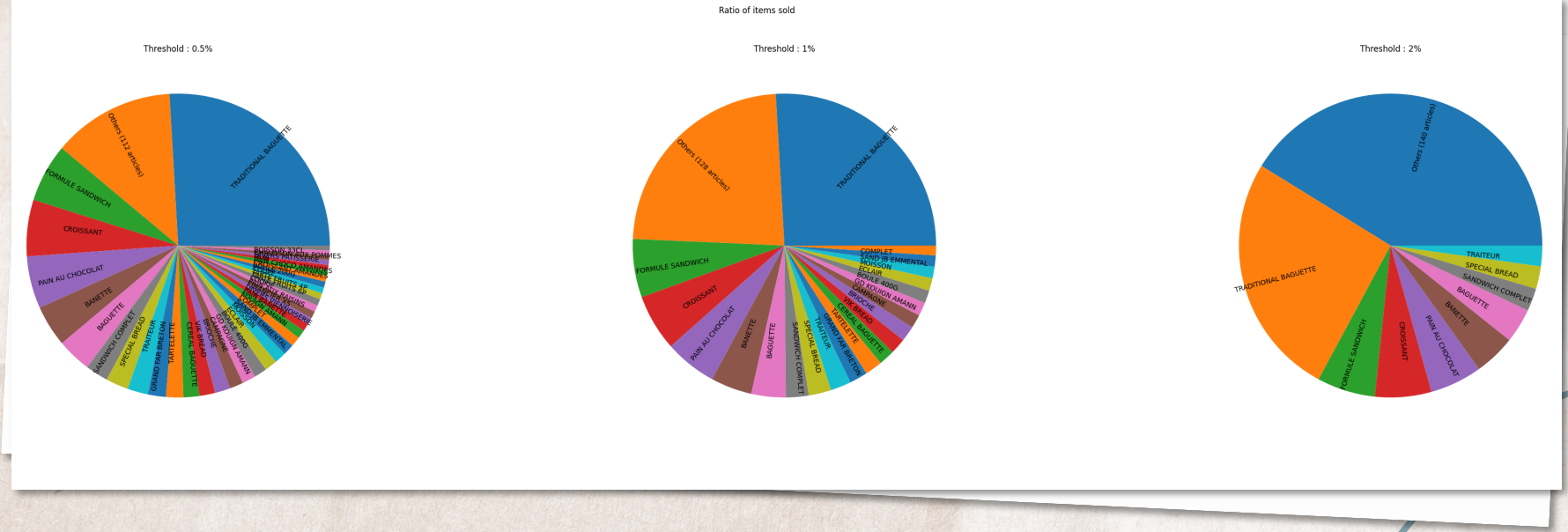
1. Traditional baguette
2. Formule sandwich
3. Croissant
4. Pain au chocolat
5. Banette

QUESTIONS :

- All articles ?
- Maybe groups ?

QUICK STATS

THRESHOLDS



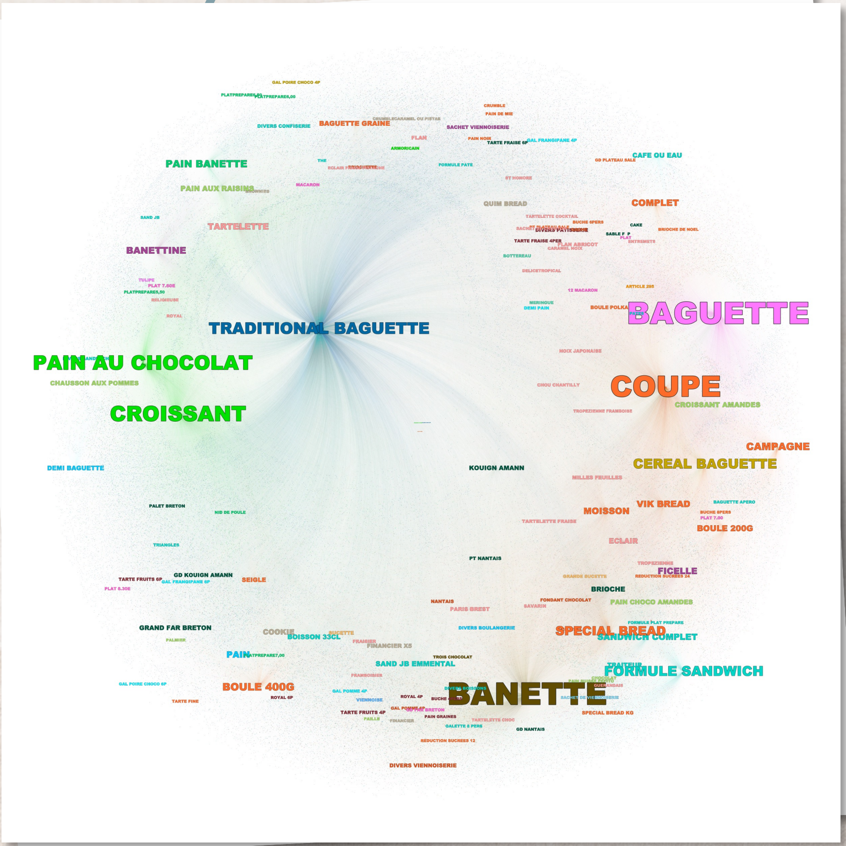
02

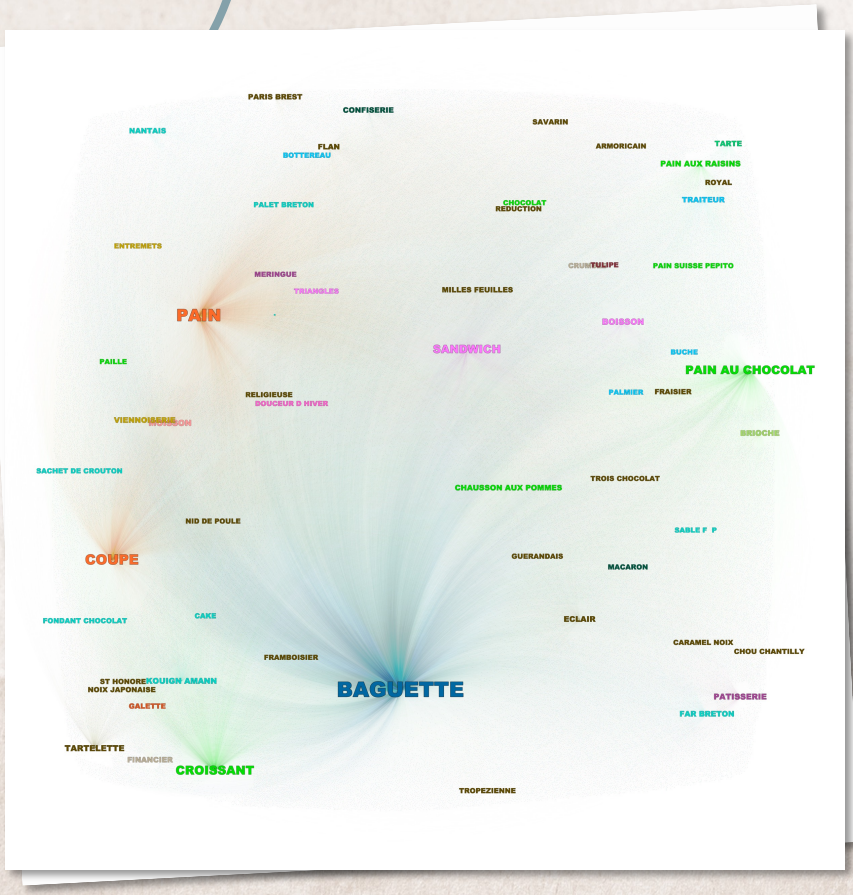
COMMUNITIES

The great madness of French to distinguish breads

COMMUNITIES

NO CATEGORIES



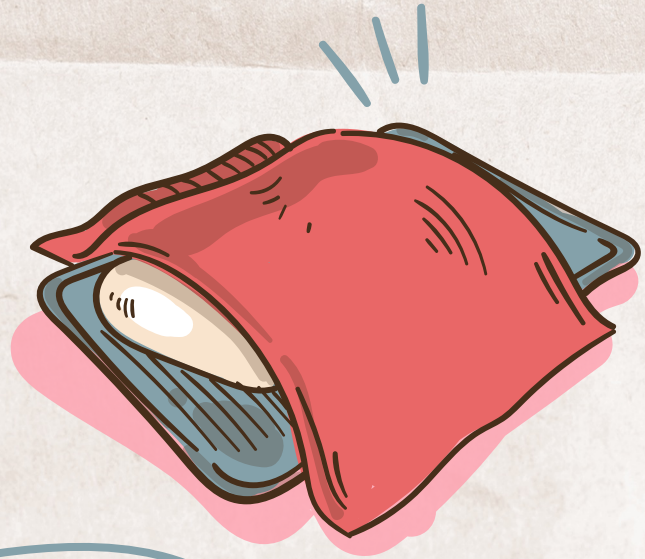


COMMUNITIES

NORMAL CATEGORIES

COMMUNITIES

LARGE CATEGORIES



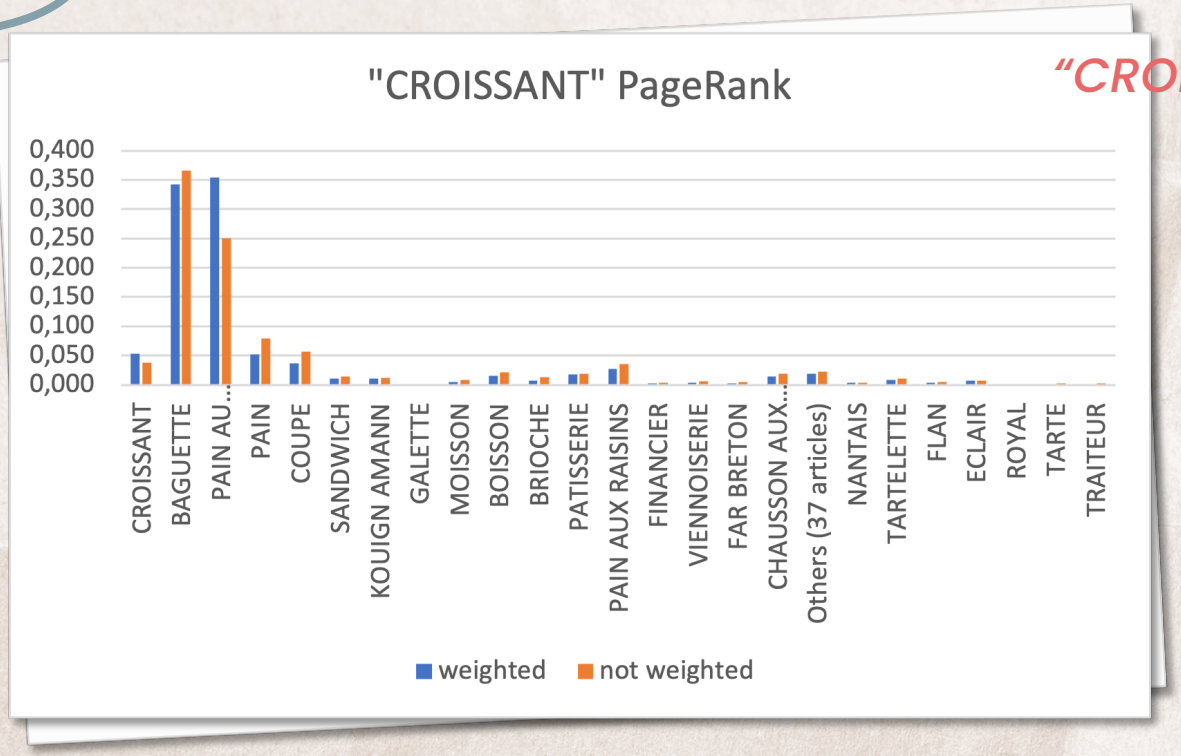
03

RANKING

The big dilemma when entering in a bakery

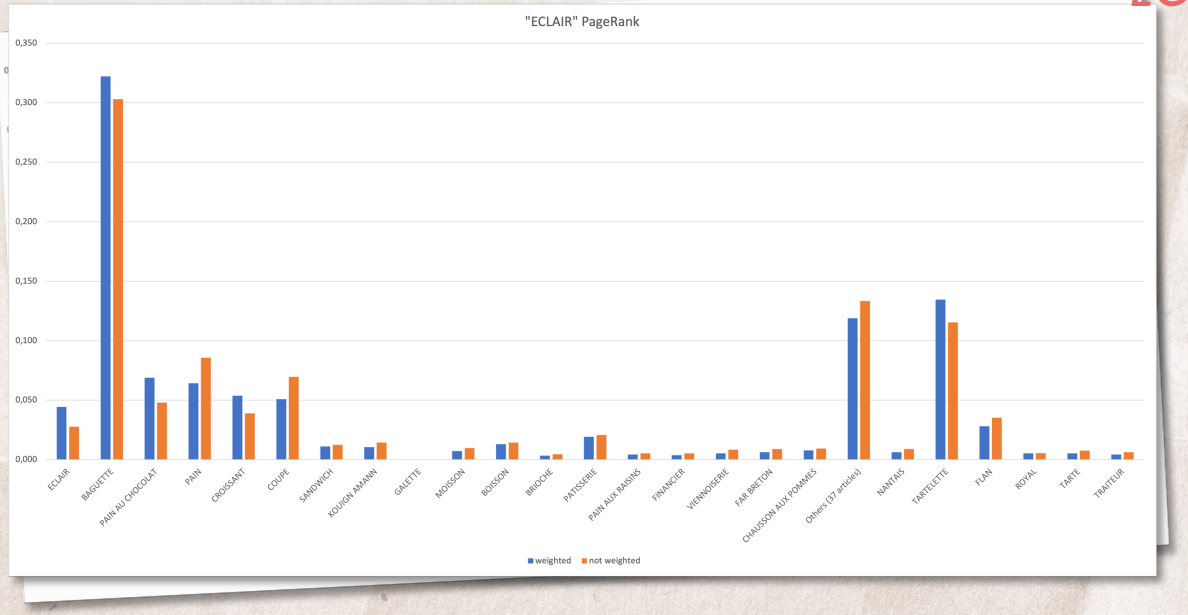
RANKING

“CROISSANT” example



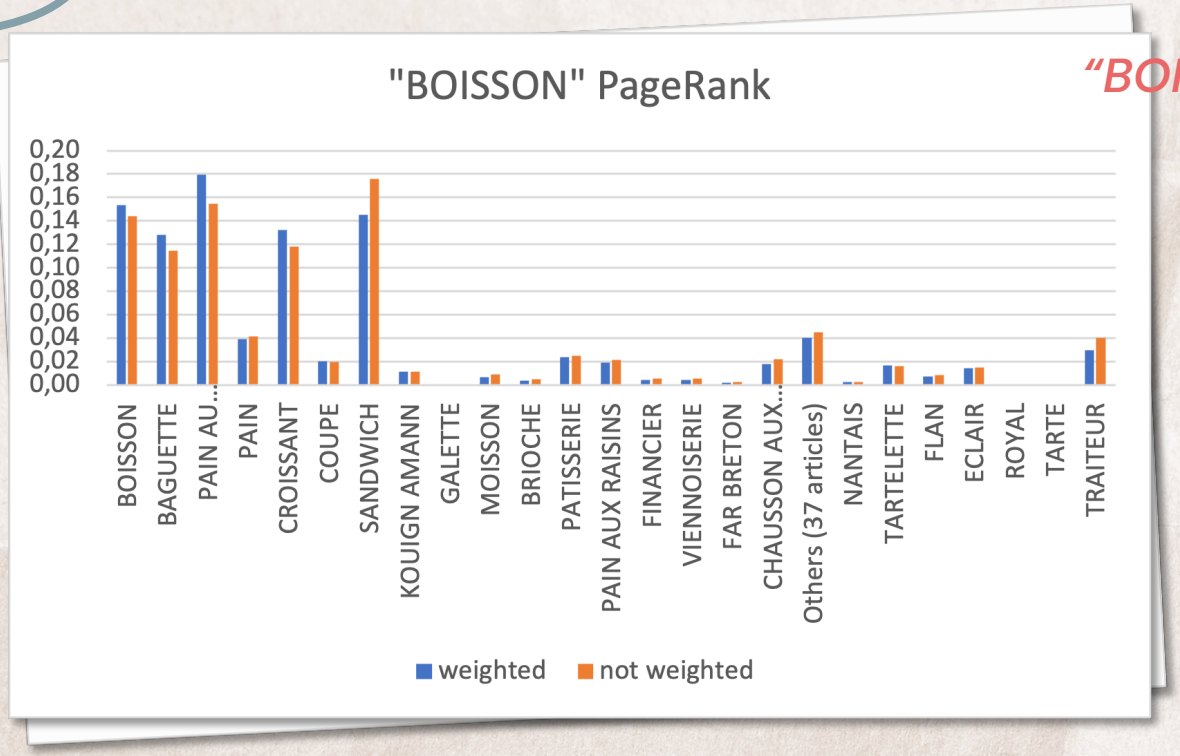
RANKING

“ECLAIR” example



RANKING

“BOISSON” example



04

CONCLUSIONS

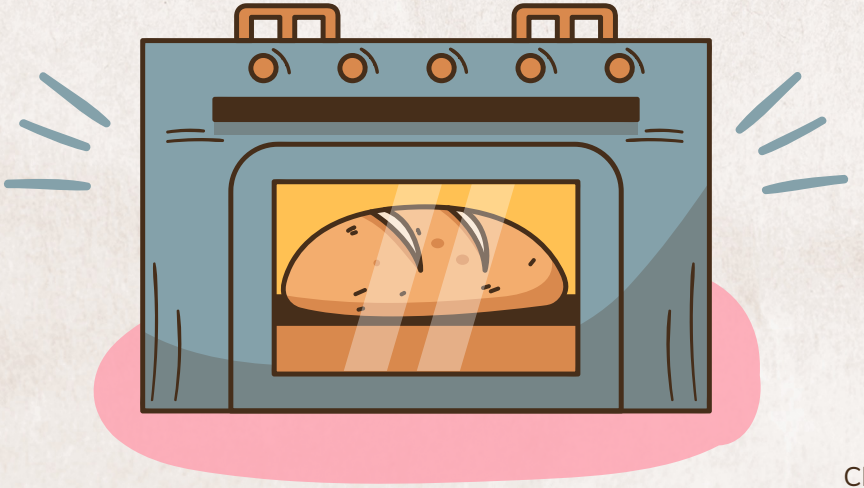
The way to manage our imaginary bakery

INCOMPLETE STUDY

Some remarks to continue the study :

- Sells among timetable
- Subsitution articles
- Lack of information

THANKS!



Do you have any questions?

GitHub project :
https://github.com/superbionicle/NSP

CREDITS: This presentation template was created by **Slidesgo**, and includes icons by **Flaticon** and infographics & images by **Freepik**

CREDITS & THANKS

Arthur LECOCQ

French Erasmus Student

THOSE WHO HELPED ON THIS PROJECT

Tomaso Erseghe
Lejla Dzanko
Luca Hammer
Florent Lefebvre
Quantmetry
Alexandre Lecocq

SOURCE OF DATASET Kaggle

POWERPOINT TEMPLATE https://slidesgo.com