







The Battle of Neighborhoods



Best Location for Bookstores near Swiss Universities

Agenda

- Introduction
- Data Acquisition and Clean-Up
- Methodology
- Results
- Discussion
- Conclusion

Introduction

Swiss Universities

– top ranked

worldwide

Not just Swiss students, also international

Locations near universities can be opportunistic for businesses



Students need books and stationaries

Aim – find business opportunies for bookstores near Swiss Universities, if there are any

Examine venues near Swiss Universities

Bookstores could have opportunities

Data Acquisition and Clean-Up

- What do we need?
- List of Swiss Universities
- Geographical Coordinates of Swiss Universities

How do we get it?

Dooi

Decide what columns you need, clean-up what you don't need Add columns that you need: «Latitude» and «Longitude»,and paste geographical coordinates

		Neighborhood	Abbreviation	Borough	Latitude	Longitude
	0	University of Basel	UNIBAS	Basel	47.558600	7.583600
	1	University of Bern	UNIBE	Bern	46.950519	7.438109
	2	University of Fribourg	UNIFR	Fribourg	46.806250	7.151740
	S	University of Geneva	UNIGE	Geneva	46.199496	6.145142
7	4	University of Neuchâtel	UNINE	Neuchâtel	46.993730	6.938547
	5	University of Lausanne	UNIL	Lausanne	46.521075	6.580322
	6	University of Lucerne	UNILU	Lucerne	47.049444	8.312222
	7	University of Lugano	USI	Lugano	46.011000	8.958000
	8	University of St. Gallen	HSG	St. Gallen	47.431667	9.374722
	9	University of Zurich	UZH	Zurich	47.374593	8.548889
	10	Swiss Federal Institute of Technology Lausanne	EPFL	Lausanne	46.519174	6.566653
	11	Swiss Federal Institute of Technology Zurich	ETH / ETHZ	Zurich	47.376402	8.548025

Scrape Wikipedia Page

Methodology

Foursquare API

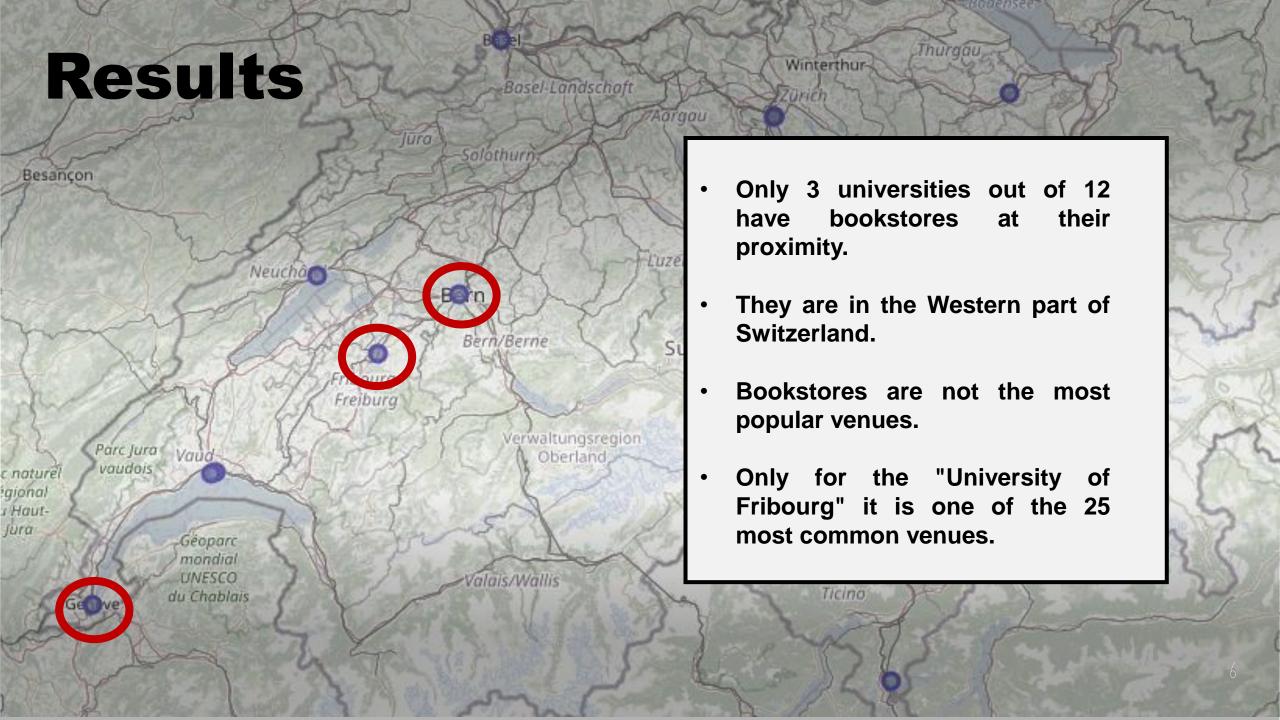
- Firstly, a function is created and run that extracts the categories of venues near Swiss Universities in the radius of 500 meters.
- Dataframe "venues" is created.

Count

- The number of venues in each neighbourhood is counted.
- The number of unique categories is calculated. It accounted for 125 unique categories.

Venue Analysis

- It is done with one hot encoding as well as by grouping rows by university and by taking the mean of frequency of occurrence of each category.
- Dataframe "book" is created, which shows the occurrence of bookstores near Swiss Universities.
- 25 most common venues near Swiss Universities are examined.



Discussion

Observations:

- There are not many bookstores near Swiss Universities.
- Bookstores are not the most popular venues for students.
- Bookstores that are located near Swiss
 Universities, are in the Western part of Switzerland.
- The most popular venues for students are the ones which are related to food and drinks.

Assumptions:

- Digitalization → No need for physical books and stationaries
- Culture makes a difference (Western part of Switzerland is mostly French speaking)

Recommendations:

- Open a bookstore in the Western part of Switzerland, near such universities as University of Neuchâtel, University of Lausanne, or Swiss Federal Institute of Technology Lausanne.
- Reconsider a business model open bookstore/coffee shop

Coclusion

• **Aim** – met



• Analysis – conducted



Important! Limitations:

- Only Swiss Universities were considered. There are other educational institutions in Switzerland, as business schools, colleges, etc.
- Project is based on observations and personal assumptions. It does not include any scientific background and literature.