## Research Topic

How retail location can affect business?

**Zhuo Leng** 

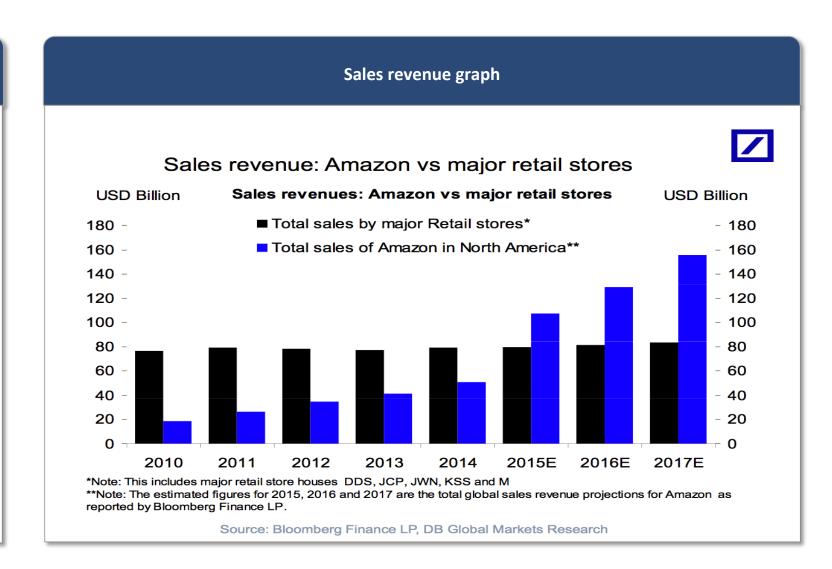
Apr 5, 2017

# Why I want to study this?

### Research Background

#### background

- Facing challenges from E-Commerce giants, such as Amazon
- However, the vast majority of retail sales in U.S still happen offline
- Understanding retail business and help them fight against E-Commerce became an interesting topic.



### Research Question

#### **Research Question**

How retail location factors (demographic factors, spatial pattern, etc.) affect retail business outcome (e.g. sales) of different types shopping center in U.S?

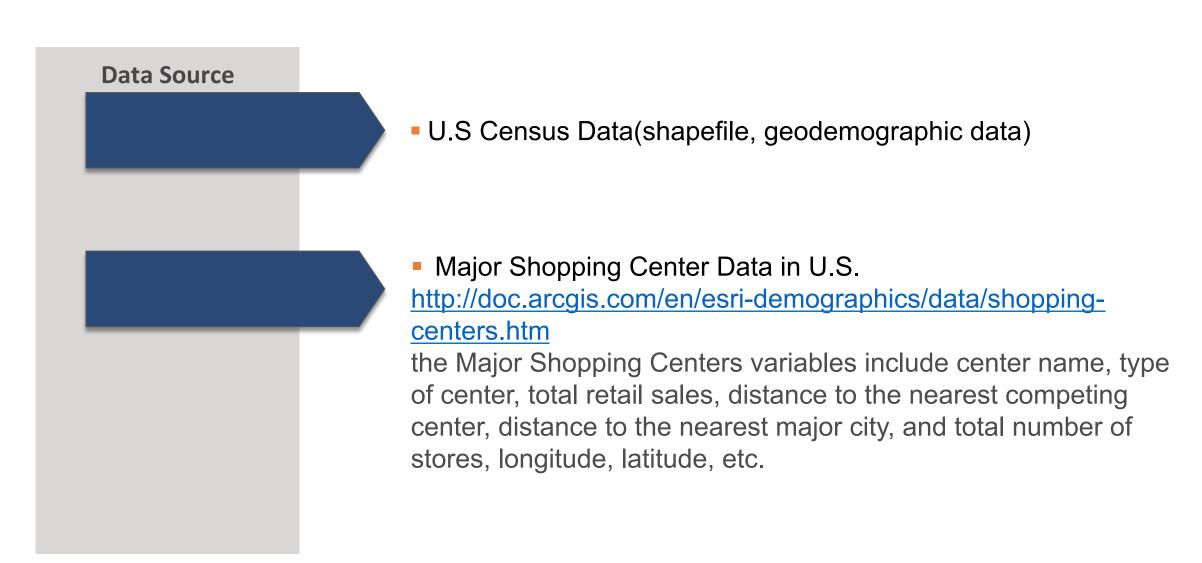
### Literature Review

Duggal, Niti . "Retail Location Analysis: A Case Study of Burger King & McDonald's in Portage & Summit Counties, Ohio ." Ohiolink. December 2007. Kean, Rita, LuAnn Gaskill, and Larry Leistritz. "Effects of community characteristics, business environment, and competitive strategies on rural retail business performance." Proquest. 1998.

#### Research Contribution

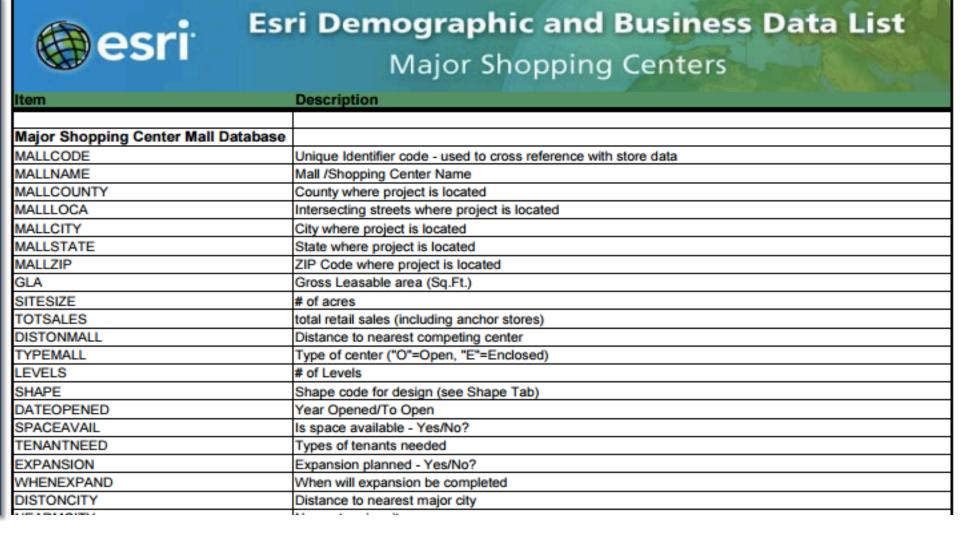


# How to answer my question?





~ 100 variables



#### Variable list

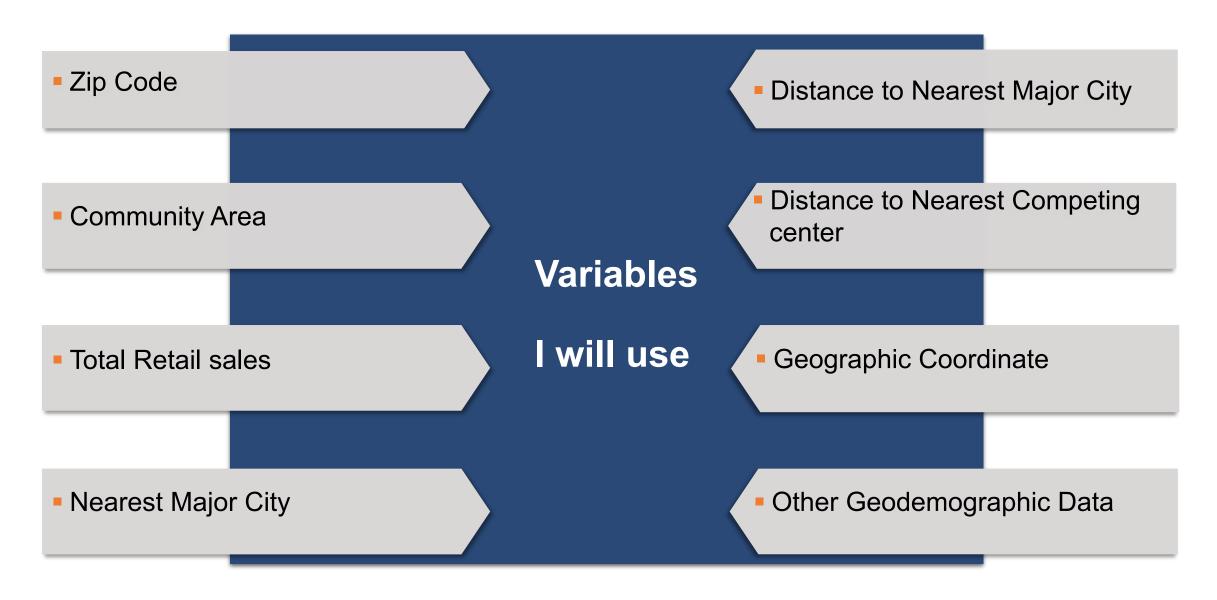
Store Type Identify

STORETYPE	Description
3A	Anchor
4G	Barbers, Beauty
3M	Children's Apparel
5T	Entertainment
3U	Food & Restaurants
4A	Gifts, Cards, Books

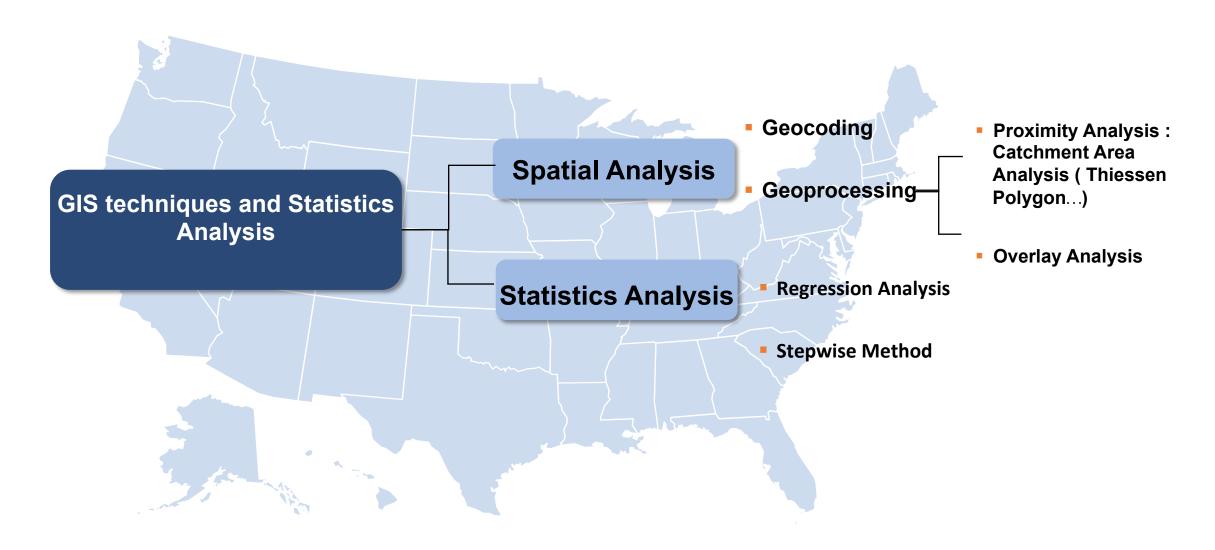
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@esri	Esri Demographic and Business Data List  Major Shopping Centers
Item	Description
5H	Hi-Tech
3W	Jewelry
3J	Men's Wear
5Z	Miscellaneous
58	Services
3D	Shoes
4M	Specialty Store
4B	Temporary Tenant
3S	Unisex/Family Clothing
3G	Women's Wear
CENTER_CLASS_ID	CENTER_CLASS_NAME
CC	Community Center
=-	la

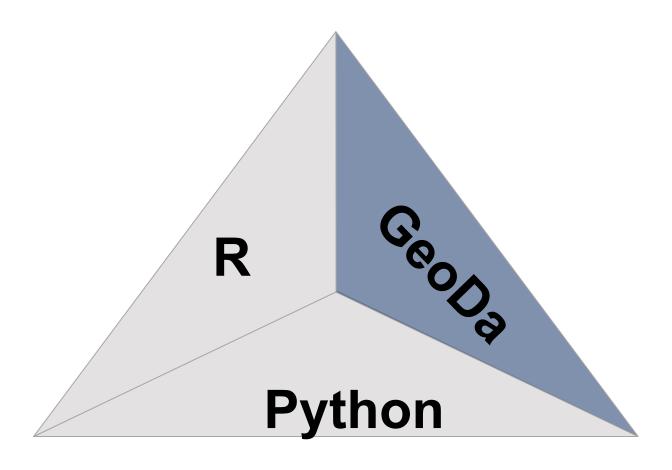
CENTER_CLASS_ID	CENTER_CLASS_NAME	
CC	Community Center	
EC	Entertainment Center	
LC	Lifestyle/Specialty Center	
OF	Other	
PC	Power Center	
RC	Regional Center	
SR	Super Regional Center	
UU	Unknown	
VR	Value Retail Center	
DESIGN_TYPE_ID	DESIGN_DESCRIPTION	
E	Enclosed	
0	Open	
U	Unspecified	
•		
SHAPE_ID	SHAPE_DESCRIPTION	
A	A-Shaped	
В	B-Shaped	
C	Cross-Shaped	
D	Dumbbell-Shaped	
Е	E-Shaped	
F	F-Shaped	
G	G-Shaped	
Н	H-Shaped	
1	Irregular-Shaped	
L	L-Shaped	
M	M-Shaped	
N	N-Shaped	
0	Round-Shaped	
P	P-Shaped	
Q	Square-Shaped	
R	Rectangle-Shaped	
8	Strip-Rectangle	
T	T-Shaped	
U	U-Shaped	
V	V-Shaped	
W	W-Shaped	
Х	X-Shaped	
Y	Y-Shaped	



## Analyses



## Computational tool



# THANKS

**Zhuo Leng**