# EBAY-Group Presentation

Bamberg Summer Institute in Computational Social Science

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Kholodilin, K. & Siliverstovs, B. (2012) Measuring Regional Inequality by Internet Car Price Advertisements: Evidence for Germany.

Figure 7: Gini coefficient (based on car prices, mobile.de); NUTS2

Gini index
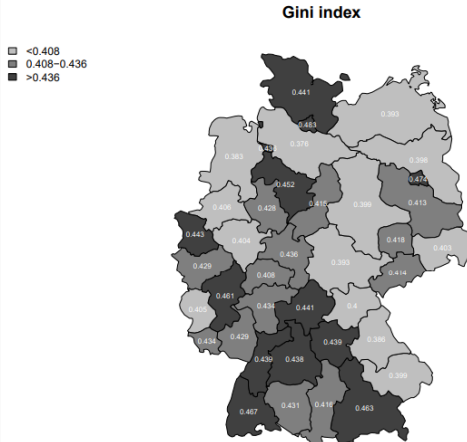
Research Question
Do economic disparities between German cities/regions influence
the prices of used cars?

Hypothesis 1:
The higher a city's GDP per capita, the higher is the expected
price of used automobiles.

Hypothesis 2:
The ????????????ßß

Data Scraping

Five cities (+50km): Munich, Jena, Dusseldorf, Stuttgart, and Deggendorf

Sample
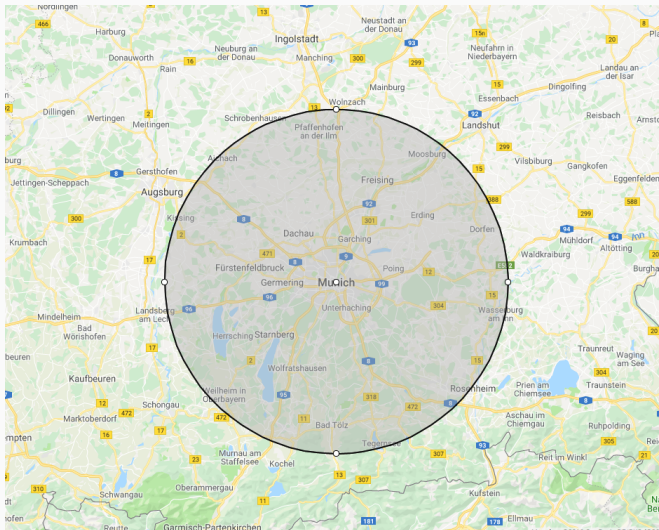
24 representative car models (top registrations per class in 2010)

Car model	Car class	Car model	Car class
Smart-Fortwo	minis	Mercedes-Benz-E	upper middle class car
Fiat-Panda	minis	BMW-5er	upper middle class car
Renault-Twingo	minis	Audi-A6	upper middle class car
VW-Polo	small	Mercedes-Benz-S	upper class car
Opel-Corsa	small	BMW-7er	upper class car
Ford-Fiesta	small	Audi-A8	upper class car
Opel-Astra	compact class	Mercedes-Benz-E	sports-car
Audi-A3	compact class	BMW-Z4	sports-car
VW-Golf	compact class	Porsche-911	sports-car
Mercedes-Benz-C	middle class car	VW-Tiguan	SUV
BMW-3er	middle class car	BMW-X1	SUV
VW-Passat	middle class car	Audi-Q5	SUV

Data

Scraped variables:

- Model & class
- Price
- Description
- Location
- Age & mileage

Merged with macroeconomic indicators:

- GDP per capita
- Household income per capita
- Car thefts per capita

OLS (price $\sim$ city + ...)

Next Steps

Subtitle 3.1.

Practical applications

Important for Policy makers?

Circle Map

Reproduceability

https://github.com/Studentenfutter/cars-inequality