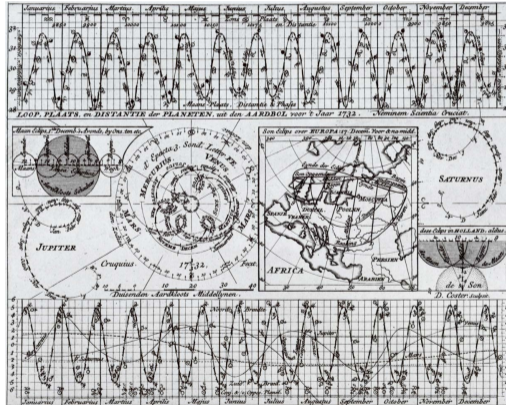# Lecture 8:
Line Charts

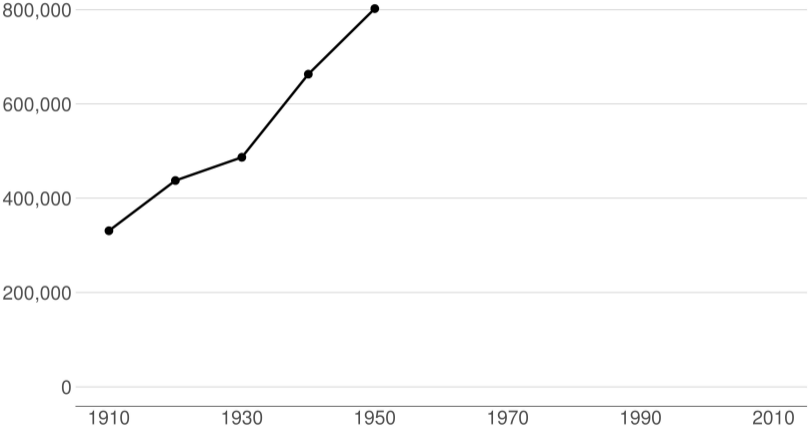March 27, 2023

Look at the Values on the Vertical Axis

Line Chart, c. 1732

Nicolaas Kruik (1678-1754) "land surveyor, cartographer, astronomer and weatherman" who "liked to measure things"
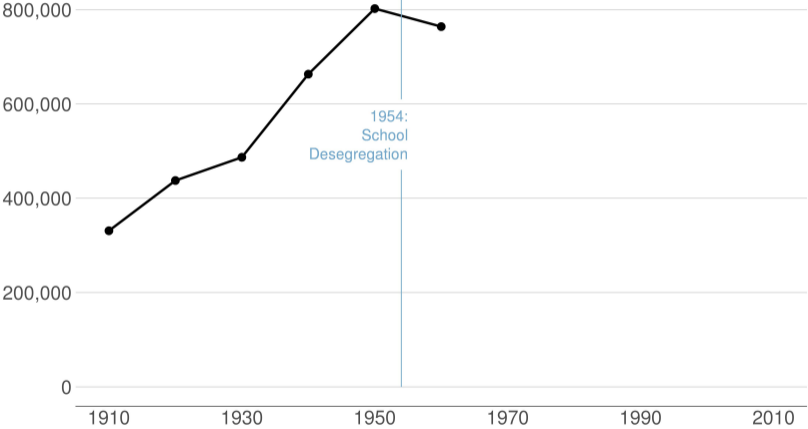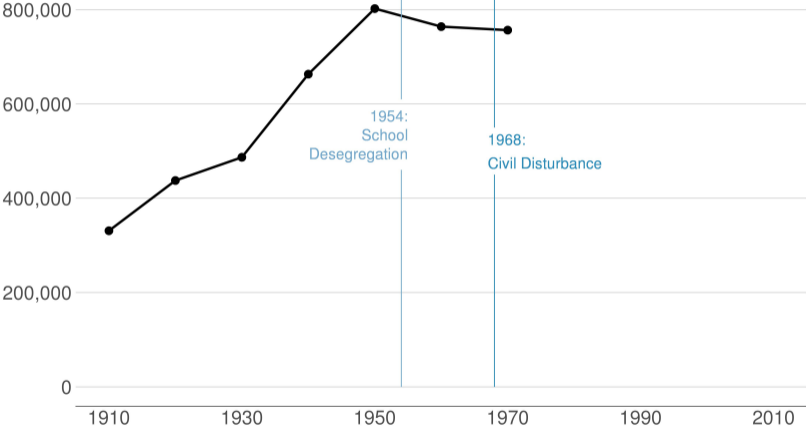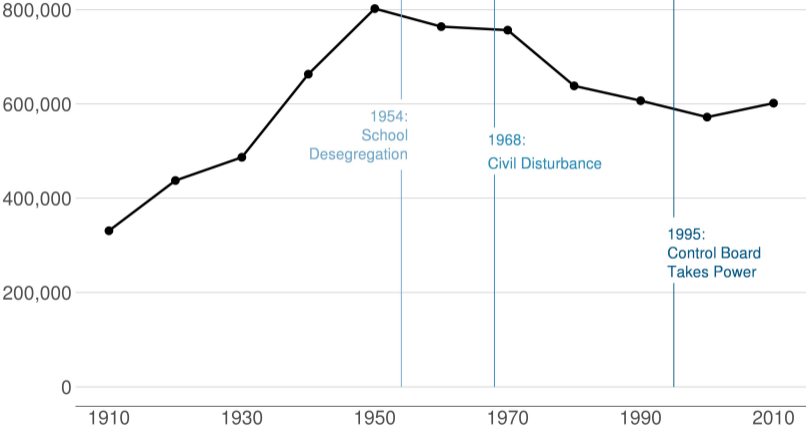

Thanks to Wikipedia.

DC Gains Population Through 1950

Population Loses Start with Desegregation

Continue After Civil Disturbance
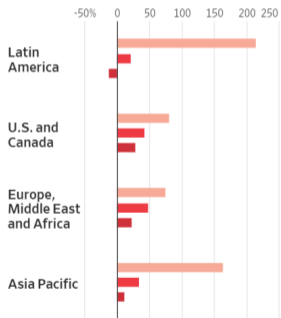
Population Turns Up After 2000

Something That Should be a Line Chart

Slower Ride

Uber's growth in Latin America has slowed in recent years.

Change in revenue from previous year

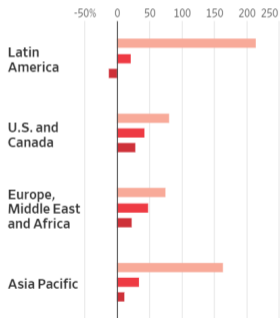■ 2017 ■ 2018 ■ 2019*

*first nine months
Source: Uber's SEC filings

Something That Should be a Line Chart

Slower Ride
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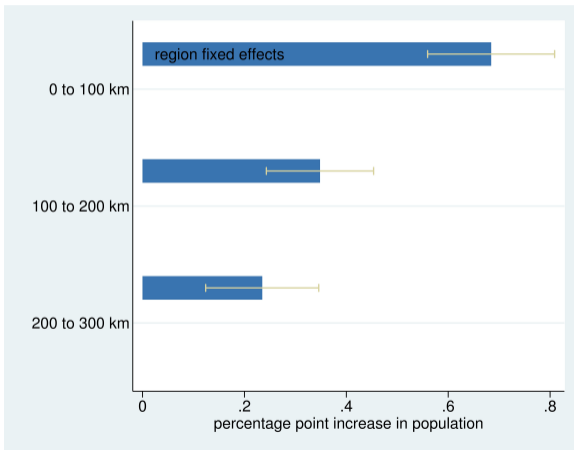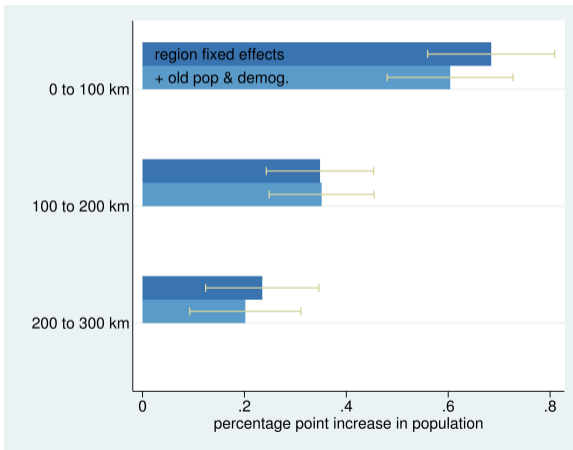■ 2017 ■ 2018 ■ 2019*

- We use lines to show change over time
- Lines make pace of change obvious
- These bars have to point out years
- Vertical alignment of lines would show that they are the same year

*first nine months
Source: Uber's SEC filings

From this very interesting *WSJ* article about Soft Bank's funding of Uber and its competitors
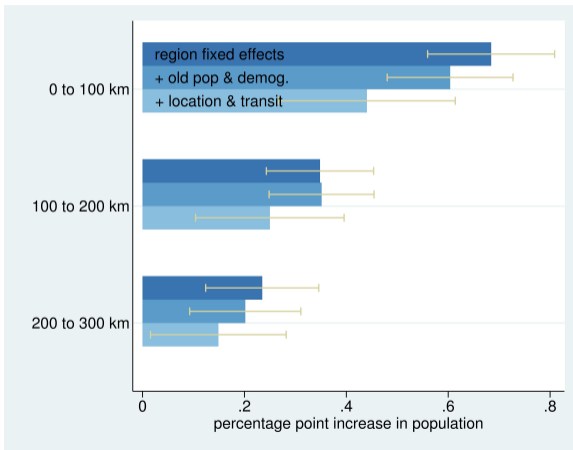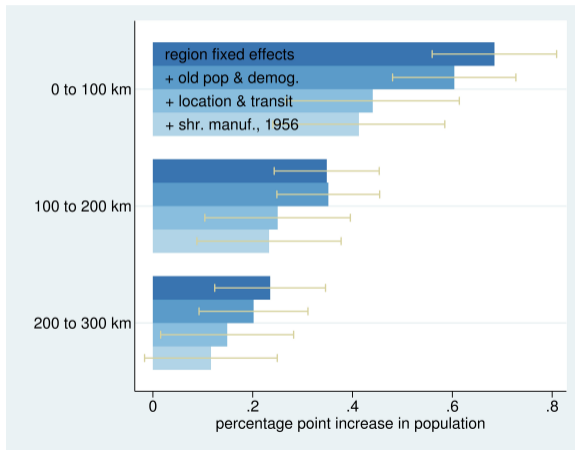
Bars with Error Bars, Building
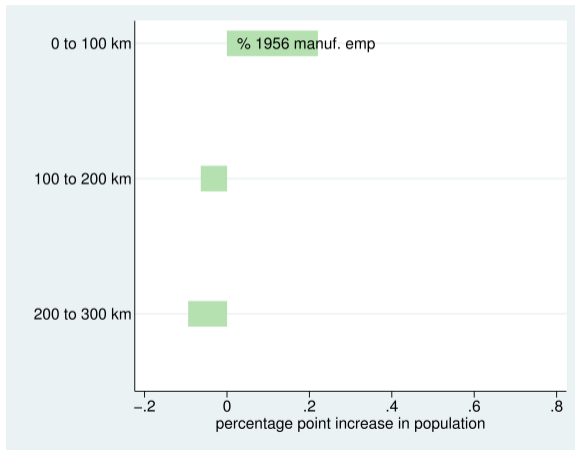
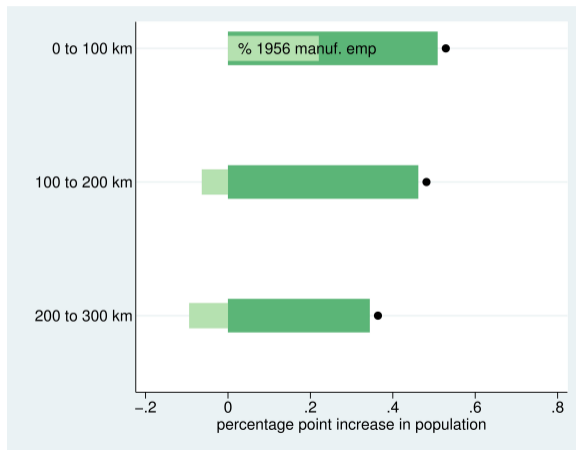# Bars with Error Bars, Building

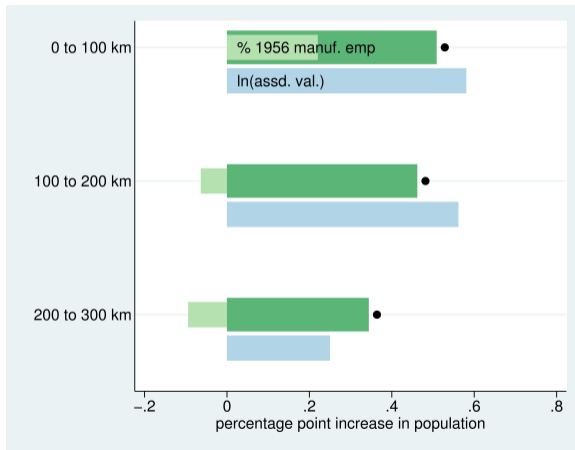# Bars with Error Bars, Building

Bars with Error Bars, Building
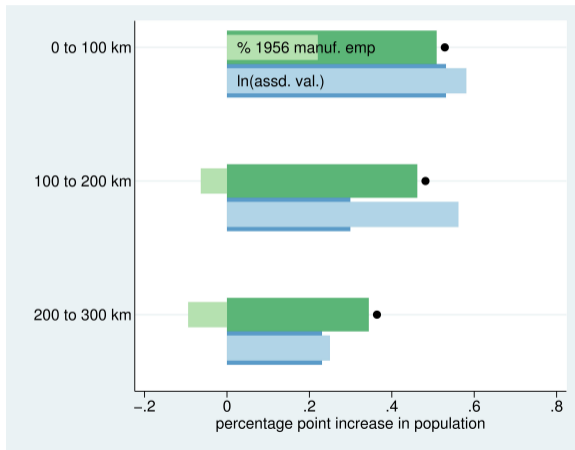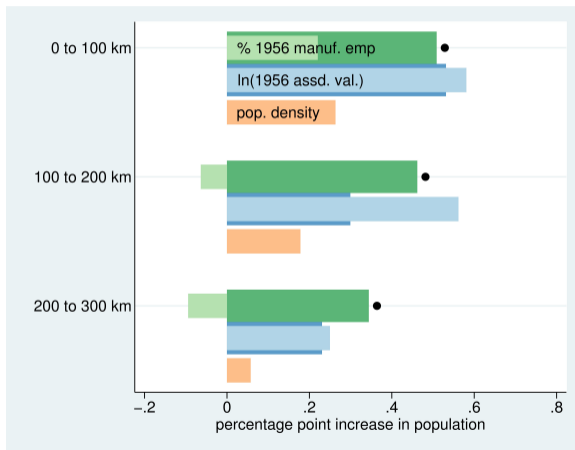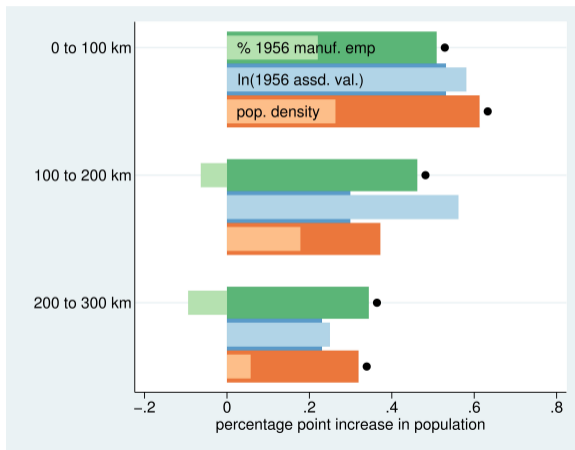
Interaction Effects

Interaction Effects

Interaction Effects

Interaction Effects

Interaction Effects

Interaction Effects

A Great Use of Annotations