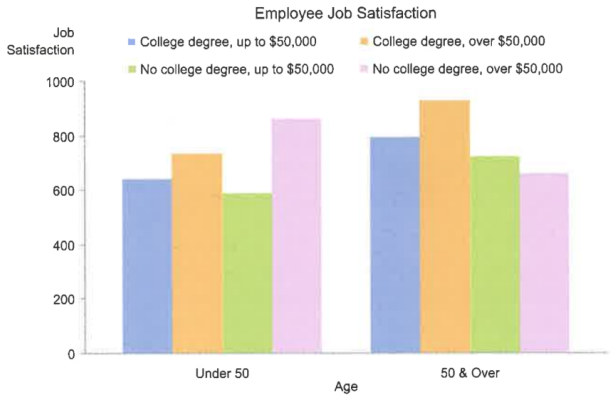
Starting with the Table

Job Satisfaction By Income, Education, and Age

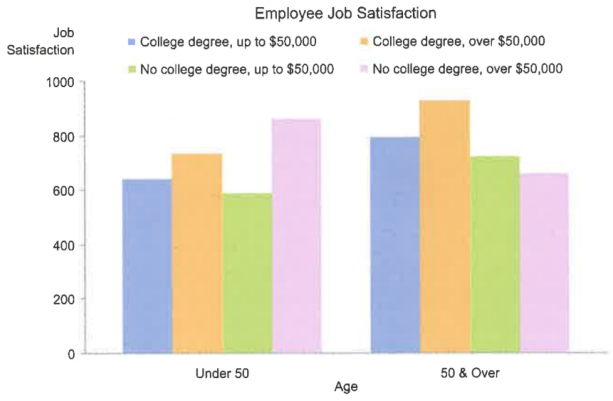
	College Degrees		No College Degrees	
Income	Under 50	50 & over	Under 50	50 & over
Up to $50,000	643	793	590	724
Over $50,000	735	928	863	662

Few, Chapter 3, Figure 3.13

Version One of a Set of Numbers

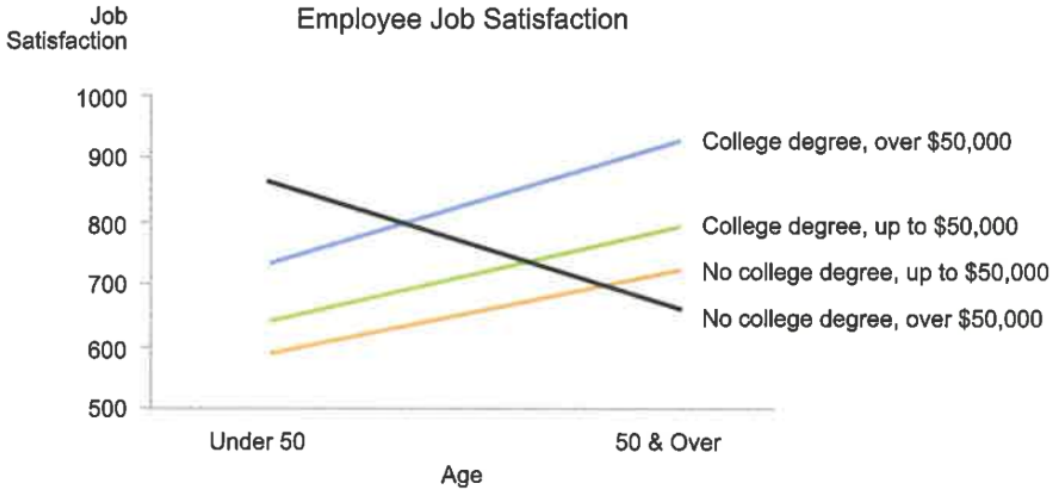


Version One of a Set of Numbers

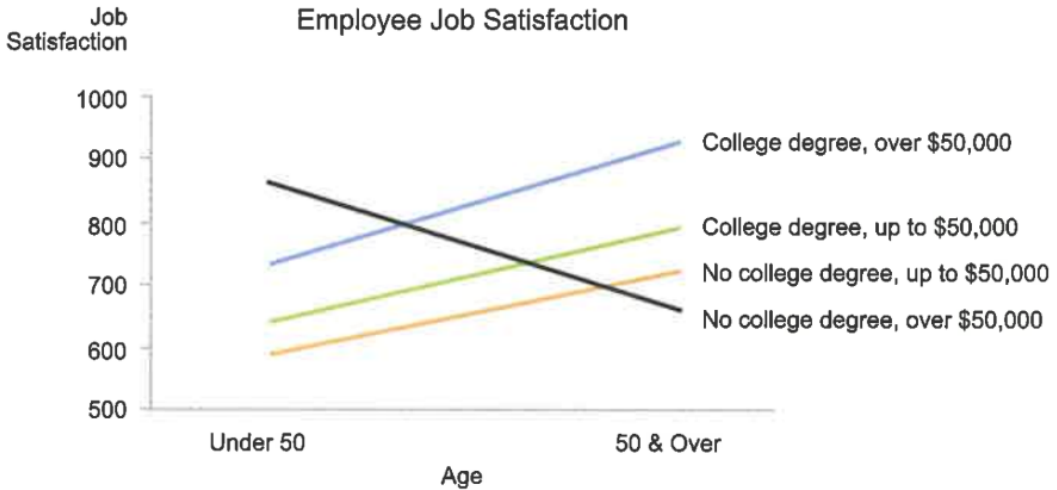


Few, Chapter 3, Figure 3.15

Version Two of the Same Set of Numbers

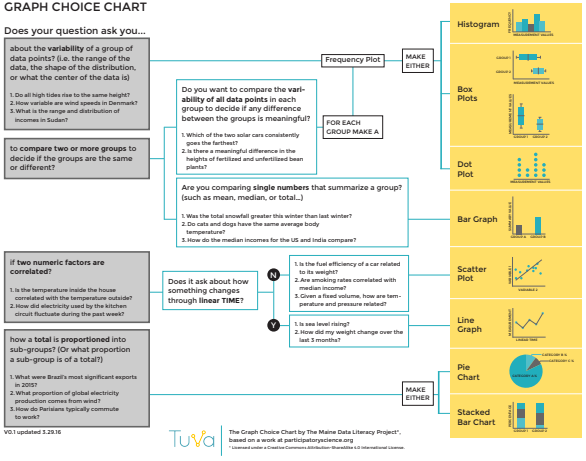


Version Two of the Same Set of Numbers

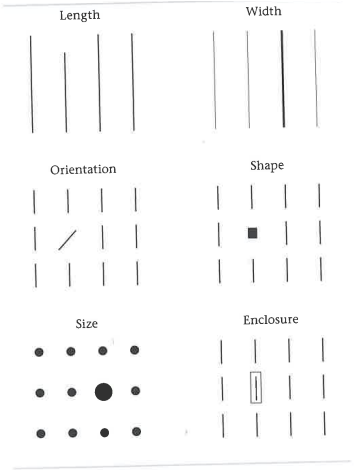


Few, Chapter 3, Figure 3.14

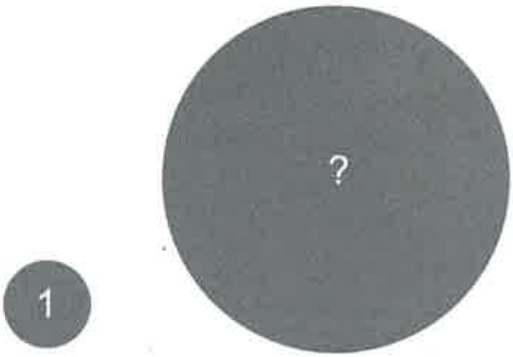
Choose the Graph that Leads the Reader to Your Answer



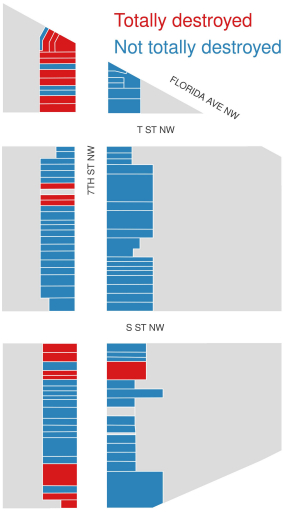
Form



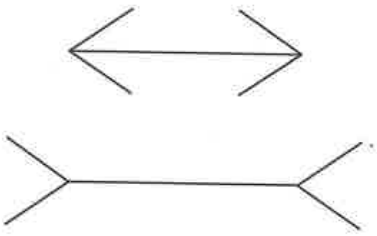
But Beware of 2-D Size



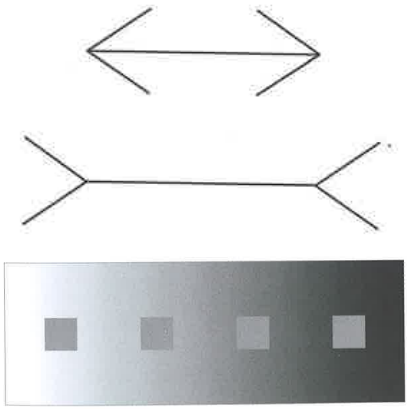
Using Color and Enclosure to Distinguish



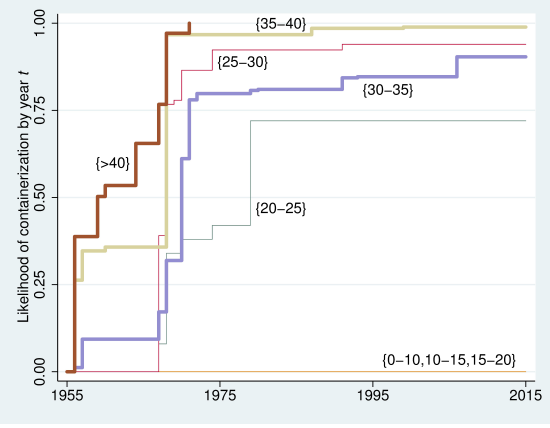
Context Matters



Context Matters



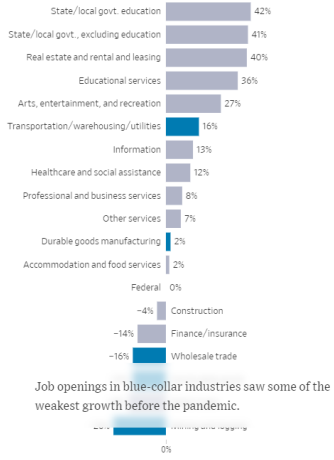
Calling Attention



Which principle do I use here?

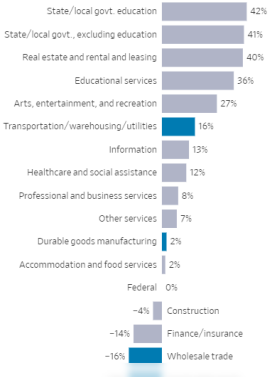
Similarity and Continuity

Change, 1/2018 to 11/2019



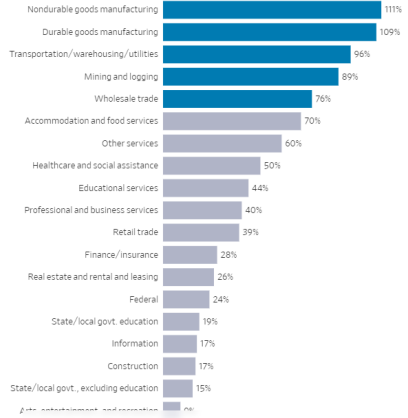
Similarity and Continuity

Change, 1/2018 to 11/2019



Job openings in blue-collar industries saw some of the weakest growth before the pandemic.

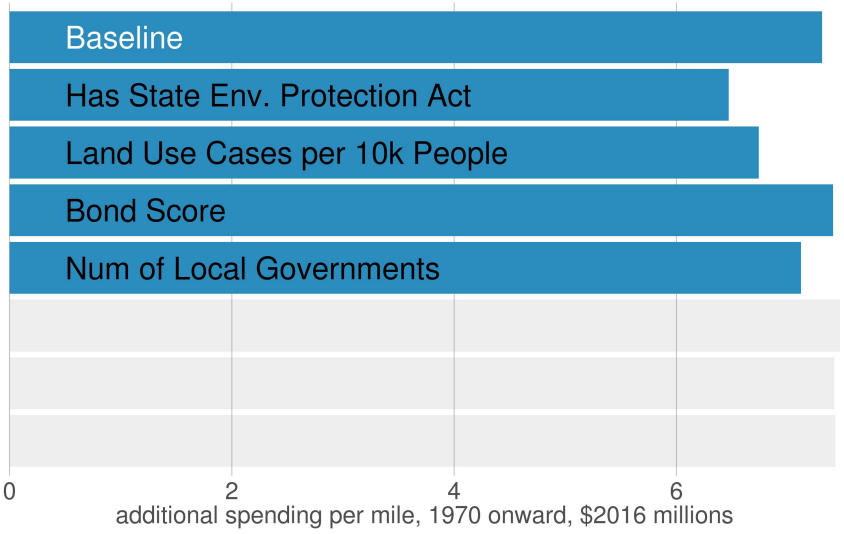
Change, 1/2020 to 11/2021



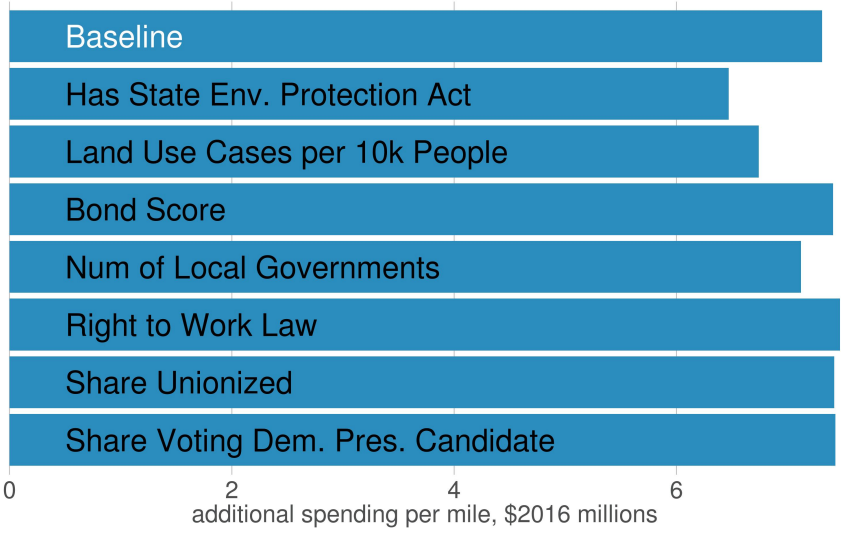
Now, blue-collar job openings are logging the biggest gains.

Baseline Increase of $7.3 Million per Mile

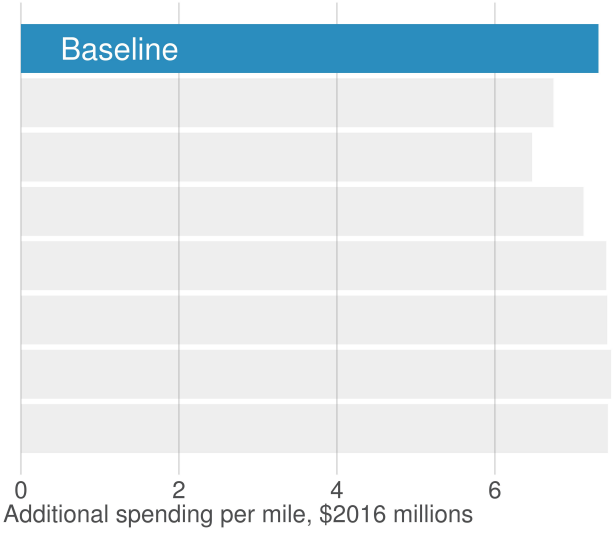
Measures of Government Quality Unrelated to Spending Increase



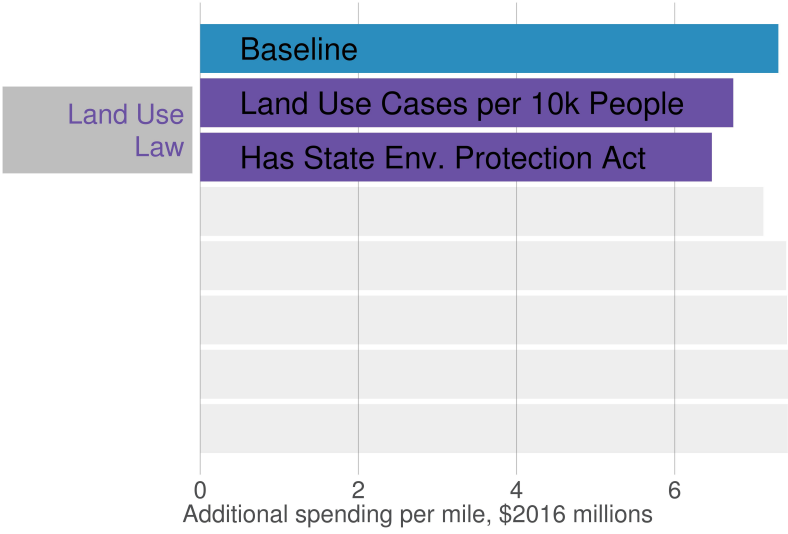
Measures of Labor Strength Unrelated to Spending Increase



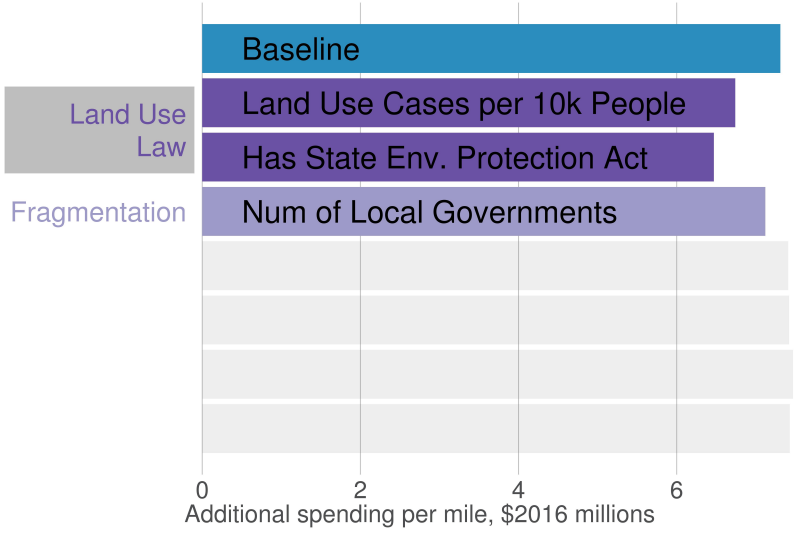
Using the Principles of Proximity and Similarity



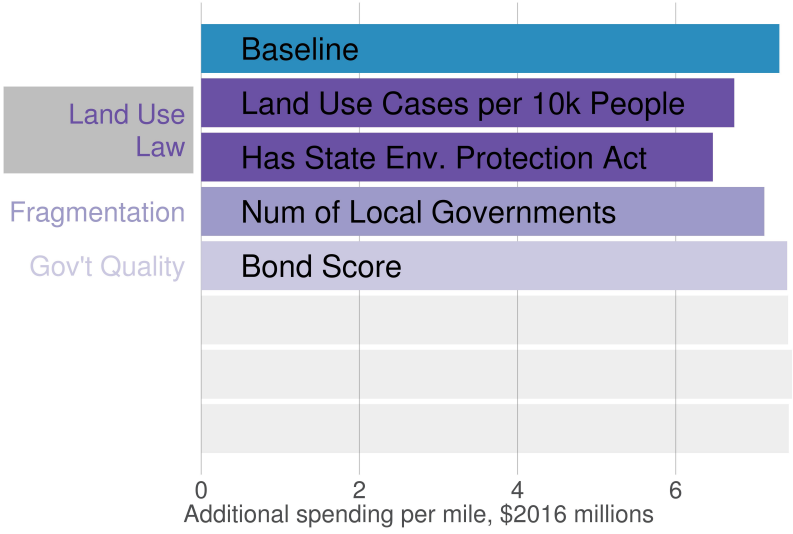
Using the Principles of Proximity and Similarity



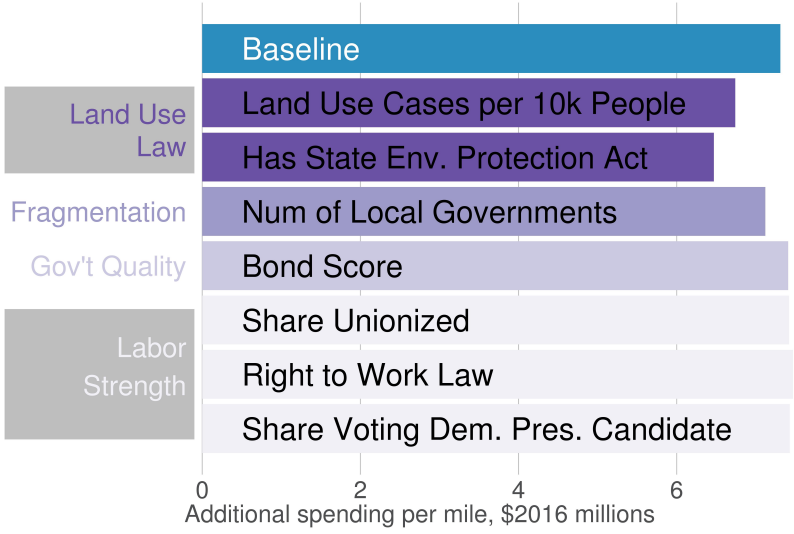
Using the Principles of Proximity and Similarity



Using the Principles of Proximity and Similarity



Using the Principles of Proximity and Similarity



R: Merging

What is a Merge?

You want to put together

Dataset A – One obs/ID

ID	Income
A	50
B	100

Dataset B – One obs/ID

ID	Pool
A	TRUE
B	FALSE

What is a Merge?

You want to put together

Dataset A – One obs/ID

ID	Income
A	50
B	100

Dataset B – One obs/ID

ID	Pool
A	TRUE
B	FALSE

Into

ID	Income	Pool
A	50	TRUE
B	100	FALSE

This is a 1 to 1 merge.

What is a Many to 1 Merge?

You want to put together

Dataset A – One obs/ID

ID	Income
A	50
B	100

Dataset B – many obs/ID

ID	Pool	Year
A	TRUE	2020
B	FALSE	2020
A	TRUE	2021
B	TRUE	2021