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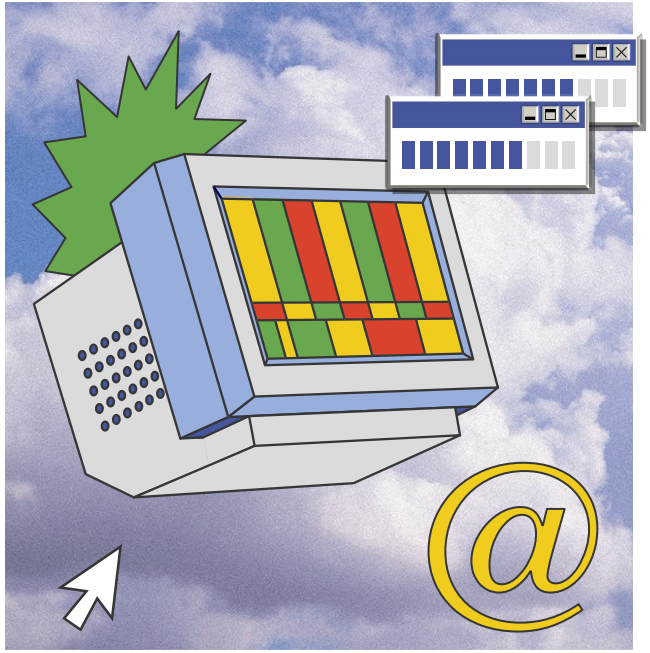
A Blast to the Past

A Time-Series Population Analysis of American Metropolitan Areas.



Our Problem

The United States is large, has a lot of people, and countless groups of people who require different needs, and We have an immense amount of data giving us insights into the demographics of countless US cities.

“How do we decide where to allocate federal funds and invest in certain services or infrastructure?”

Why does our problem matter?

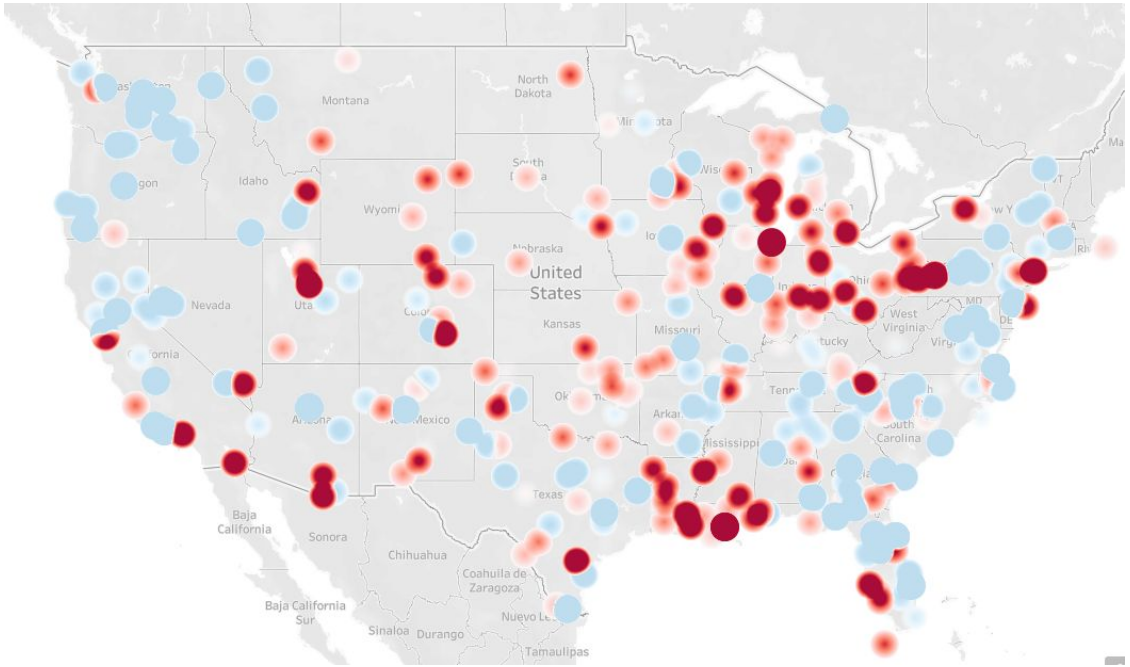
- ➔ With our analysis, we can figure out solutions to meeting the needs of different people in different areas.

Questions and Analysis

Where should we plan for infrastructure?

Where are people moving to? Where do we need to increase development? and what facilities do these areas lack?

Density Map

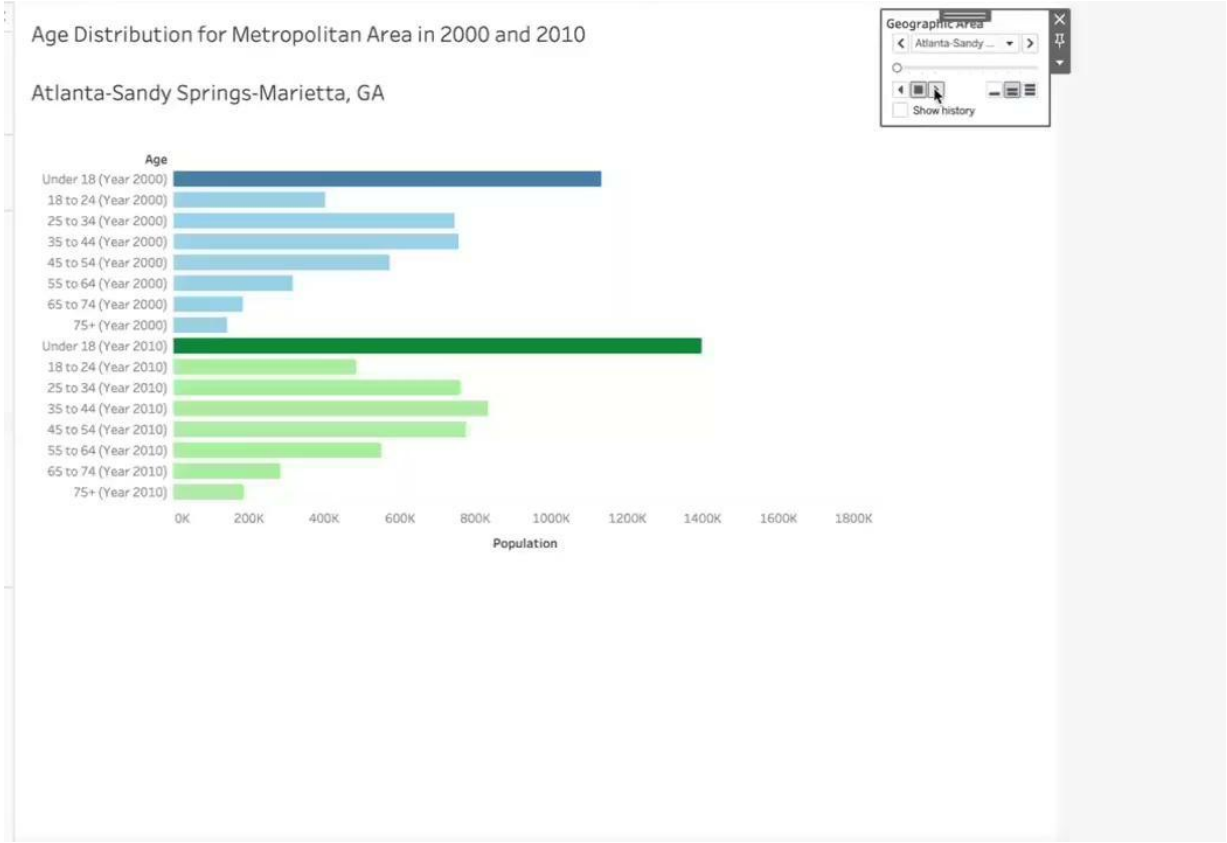


% Density increases

% Density decreases

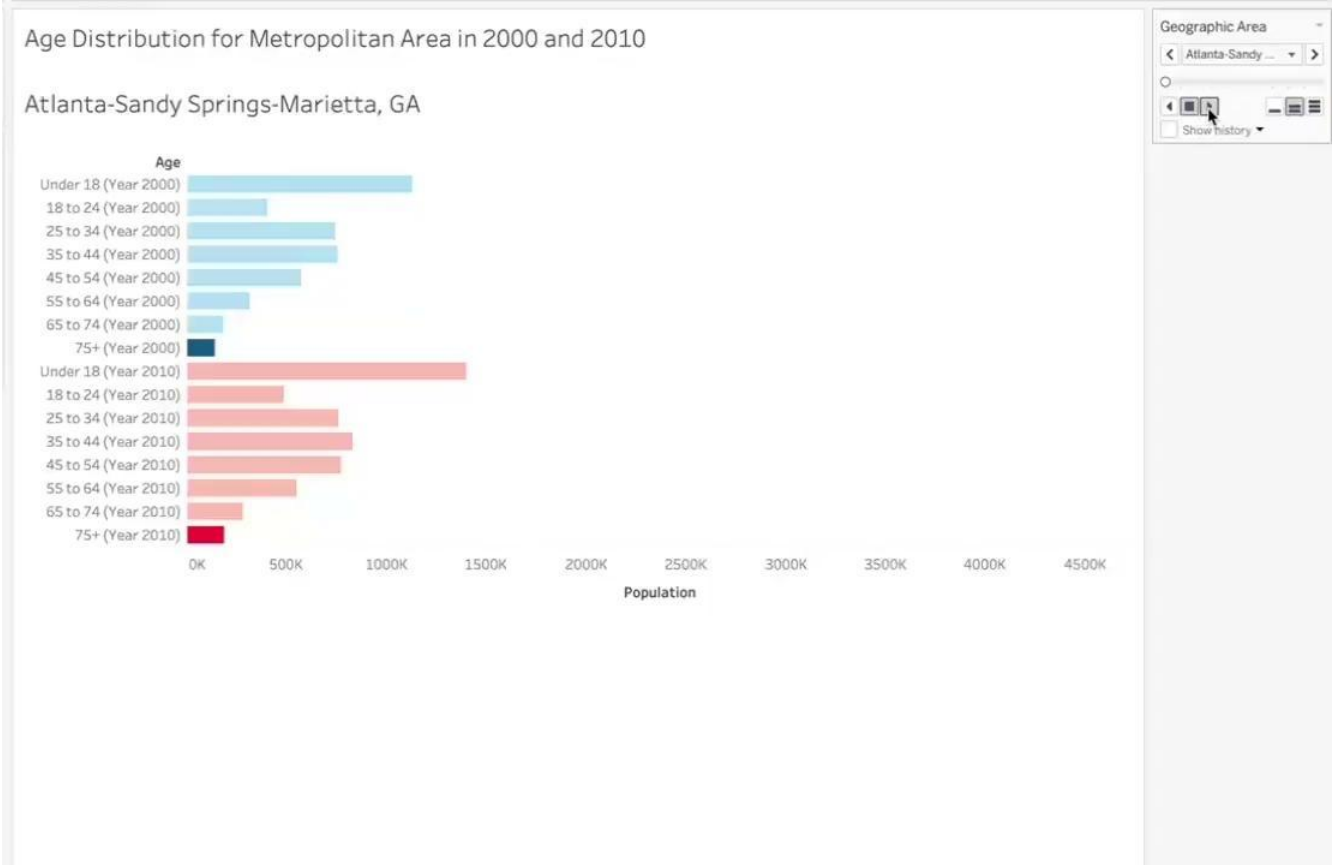
Where should we plan for educational development?

- In what regions are populations getting younger?
- How can we identify where young people and families will go?



Please play the video animation!

Where should we plan for retirement homes or services for the elderly?


Age Distribution for Metropolitan Area in 2000 and 2010
Atlanta-Sandy Springs-Marietta, GA
Age
Under 18 (Year 2000)
18 to 24 (Year 2000)
25 to 34 (Year 2000)
35 to 44 (Year 2000)
45 to 54 (Year 2000)
55 to 64 (Year 2000)
65 to 74 (Year 2000)
75+ (Year 2000)
Under 18 (Year 2010)
18 to 24 (Year 2010)
25 to 34 (Year 2010)
35 to 44 (Year 2010)
45 to 54 (Year 2010)
55 to 64 (Year 2010)
65 to 74 (Year 2010)
75+ (Year 2010)
0K
500K
1000K
1500K
2000K
2500K
3000K
3500K
4000K
4500K
Population
Geographic Area
Atlanta-Sandy ...
Show history

Conclusions

Highly Dense Cities

Cities getting denser:

Trenton
San Francisco
Milwaukee

Youth

Cities getting younger:

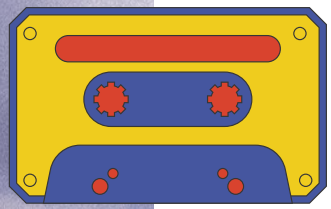
Charlotte
Raleigh
Austin

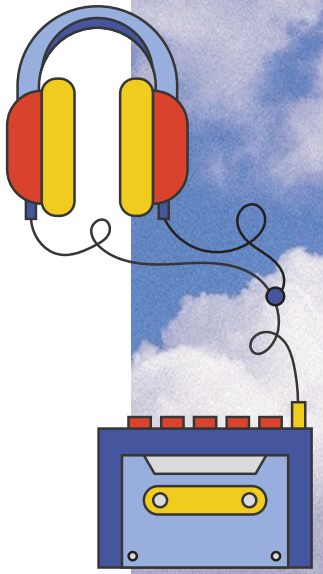
Elderly

Cities getting older:

Los Angeles
New York
Miami

Let’s Take a Trip Back to 2010





Lawmaker Actions in 2010

Where did the US invest in infrastructure?

Trenton, NJ
Route 18 $200 Million
Restoration Project

San Francisco, CA
$102 Billion spent

Milwaukee, WI
Downtown Streetcar Project

Where did the US invest in education?

Austin, Texas
Federal Funds
$4.29 Billion in 2009
$8.75 Billion in 2010

Charlotte, NC
Education funding
$5.74 Billion in 2000
$8.19 Billion in 2010
Gained 30,000 new students. Average per-pupil spending rate increased.

Where did the US invest in social security?

Los Angeles, CA
$188 Million in 2000
$256 Million to 2010

New York, NY
$181 Million in 2000
$246 Million in 2010

Miami, FL
$44 Million in 2000
$69 Million in 2010

Sources

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https://tea.texas.gov/compannual2009.pdf
https://web.archive.org/web/20230929204703/https://www.nj.gov/transportation/about/50thanniversary/njdot2000s.shtm
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