Data Storytelling with Altair and AI
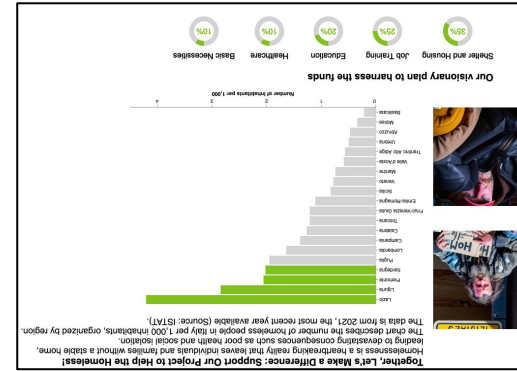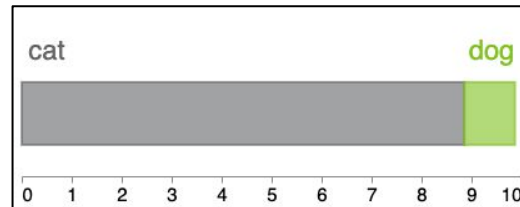
Angelica Lo Duca

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Case Study 1
Show data with three alternatives, of which one is irrelevant

Percentage of Pets
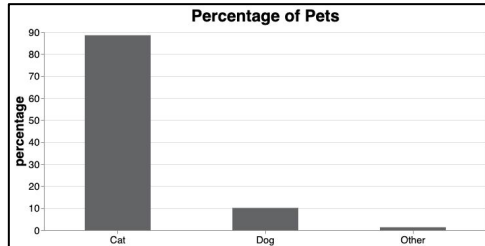
The chart does not show any insight because it is simply a visual representation of the corresponding table.

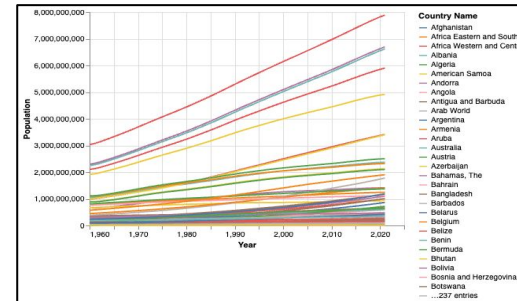To communicate this data effectively to a generic audience:

1. **Remove** the irrelevant data
2. **Round** data percentages
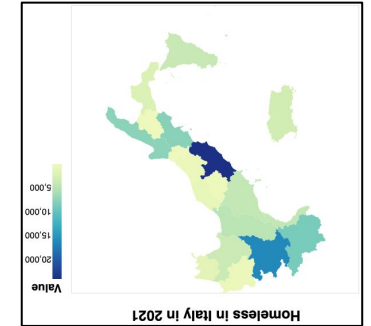3. **Transform** into a bar chart.

cat — dog

Case Study 2
Improve a chart with many overlapping trendlines

1. **Focus** on a single trendline
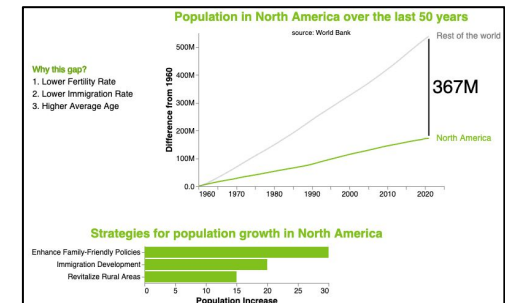2. Calculate the **difference** of each line

Together, Let's Make a Difference: Support Our Project to Help the Homeless!

Homelessness is a heartbreaking reality that leaves individuals and families without a stable home, leading to devastating consequences such as poor health and social isolation. The chart describes the number of homeless people in Italy per 1,000 inhabitants, organized by region. The data is from 2021, the most recent year available (Source: ISTAT).

Our visionary plan to harness the funds

Shelter and Housing 35% · Job Training 25% · Education 20% · Healthcare 10% · Basic Necessities 10%

1. Replace the map with a **bar chart** and add images about the topic
2. Add actionable **next steps**.

Case Study 3
Improve a geographical map

Homeless in Italy in 2021

From the map, you can't identify the regions with the highest number of homeless people.

3. **Show** the gap between the two lines since the first date
4. Add **context**, i.e., background information
5. Add **next steps**

Population in North America over the last 50 years
source: World Bank
Rest of the world
367M
North America
Why this gap?
1. Lower Fertility Rate
2. Lower Immigration Rate
3. Higher Average Age

Strategies for population growth in North America
Enhance Family-Friendly Policies
Immigration Development
Revitalize Rural Areas
Population Increase

Step-by-step
instructions to build
the origami book