

Texas

A 15-Year Journey (2000–2015)

Economic and Political Transformation



Agenda



**Introduction &
Purpose**



**Audience &
Research Question**



Data Sources



**Dashboard Design
Overview**



**Key Visualizations
& Insights**



**Summary of
Findings**

Overview



Period

2000 to 2015



Key Focus Areas

- GDP growth and Unemployment trends
- Property taxes and Housing affordability
- Population rise and Cost of living
- Impact of political leadership on key indicators



Target Audience

General Public



Purpose

Built an interactive Tableau dashboard with filters, KPIs, and diverse visualizations



Data Sources

TXHousing dataset from R and supplementary gov. data



Introduction – The Story Behind the Data

Over 15 years, Texas has undergone profound changes in its economy, population, and social fabric. This project captures the state's dynamic journey from economic booms to social shifts and political influences in a clear, data-driven story. Our goal is to transform complex metrics into a narrative that anyone can understand, making the data come alive.

Audience – Who Benefits?



Target Audience:

Everyday Texans and community members directly impacted by shifts in the job market, cost of living, and local policies.

Why It Matters:

Understanding how economic indicators like job availability, property taxes, and living costs evolve over time is essential for making informed decisions. This dashboard translates complex data into clear, actionable insights that support smarter choices in housing, employment, and personal finances.

What Are We Exploring?



- **Economic Evolution:**
How did Texas's GDP, unemployment, and other economic indicators change from 2000 to 2015?
- **Social Impact:**
What trends in population growth, crime, and cost of living can we observe over this period?
- **Political Influence:**
How did political leadership and policy shifts correlate with economic and social trends?
- **Cultural Indicators:**
How do changes in trending culture (e.g., movies and social sentiments) reflect broader state transformations?



Summary Metrics (2000–2015)

Total Population

385M

Political Parties

☒ Democratic

☒ Republican

Avg. Cost Of Living

\$26,181

Avg. GDP (\$)

1,268

Avg. Home Sales Value

1,649M

Avg. No. of Home Sales

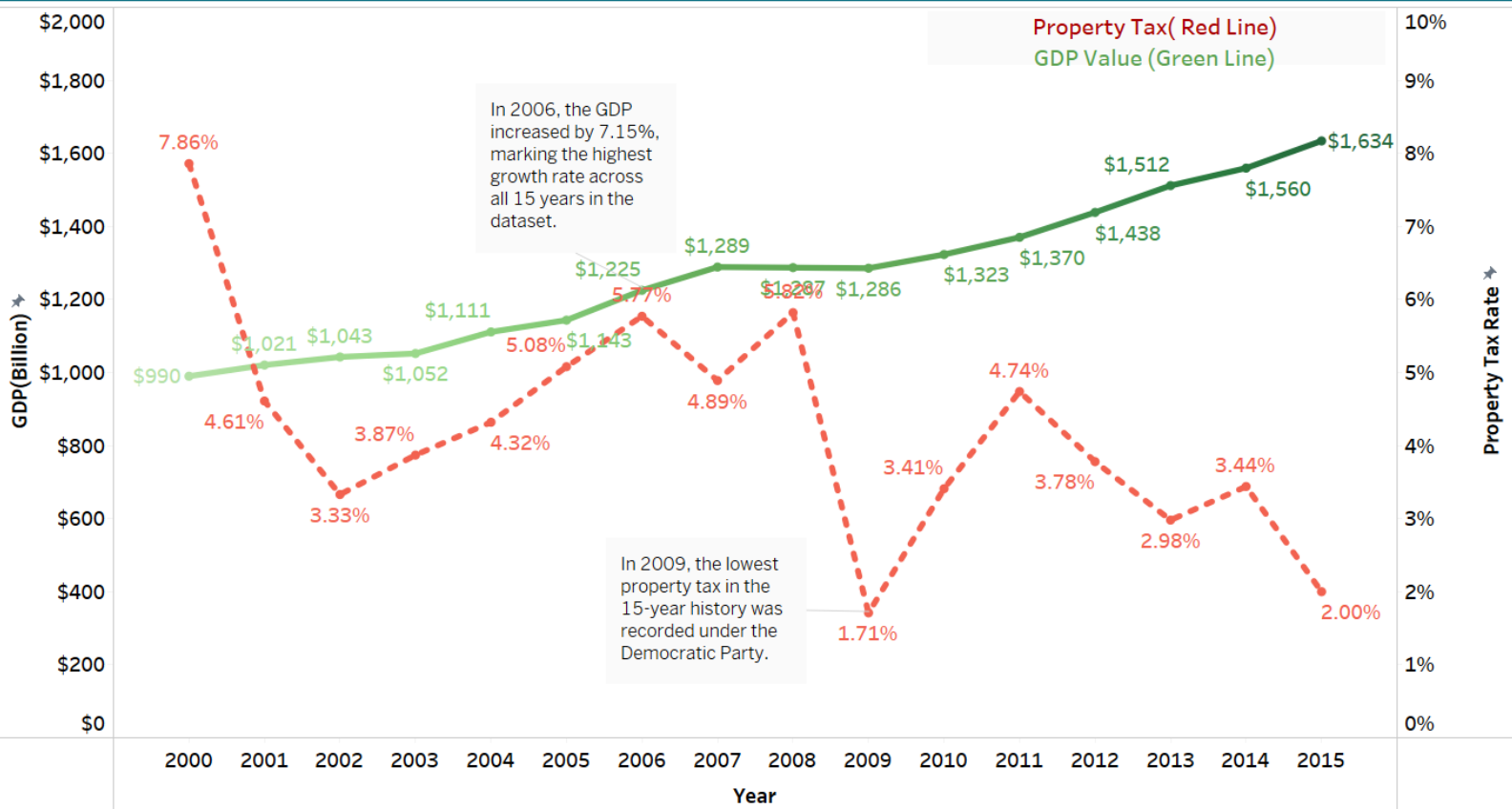
8,443

Avg. Gasoline Price

2.53

What is the trend of Texas's GDP and the Property Tax Rate over time?

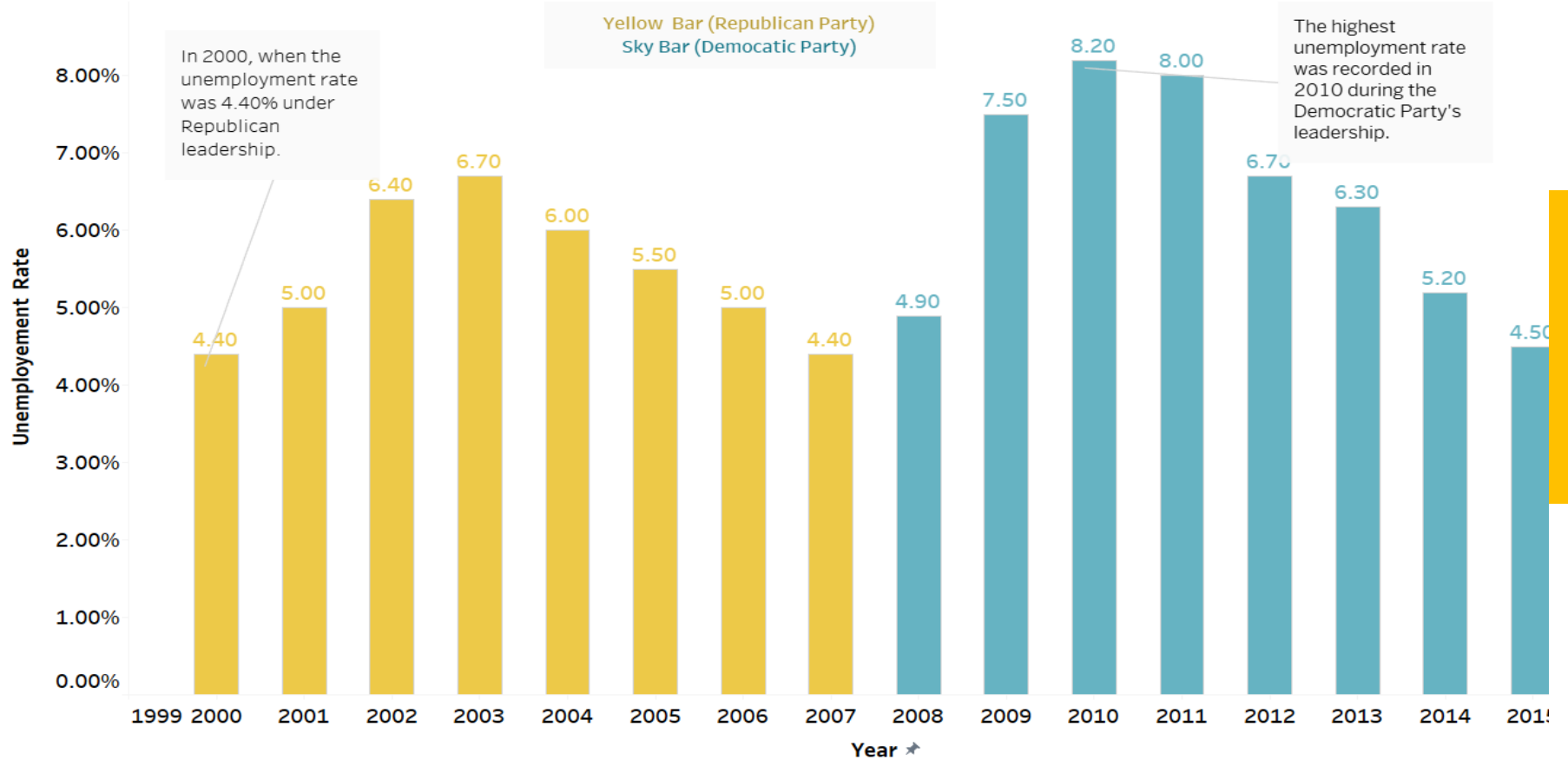
GDP Growth vs. Property Tax Rate



The Big Picture,
Texas's
Economic

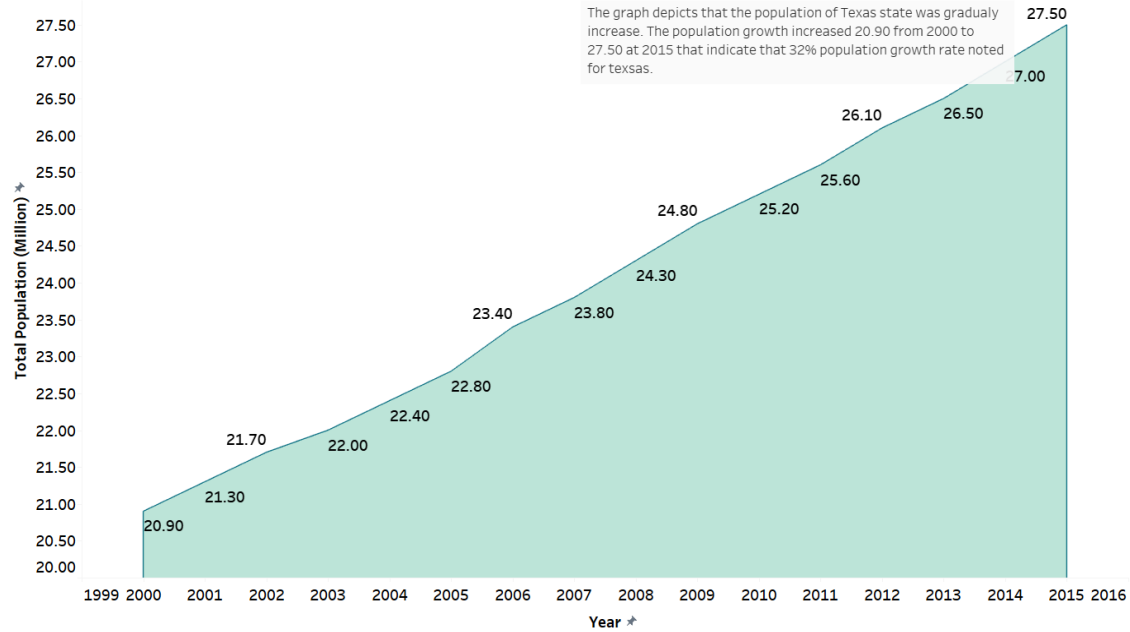
How does the Unemployment Rate change over the years under different political parties in power?

Unemployment Rate Over the years by Political Party

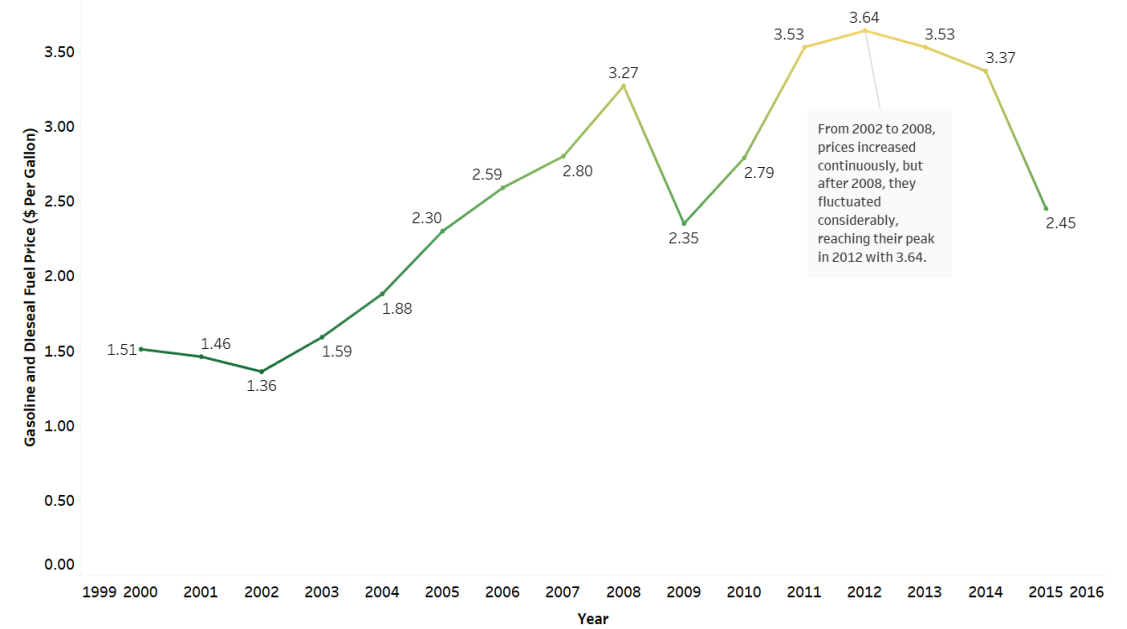


Jobs and Hard Times -
Unemployment Peaks and Recovery under different leadership

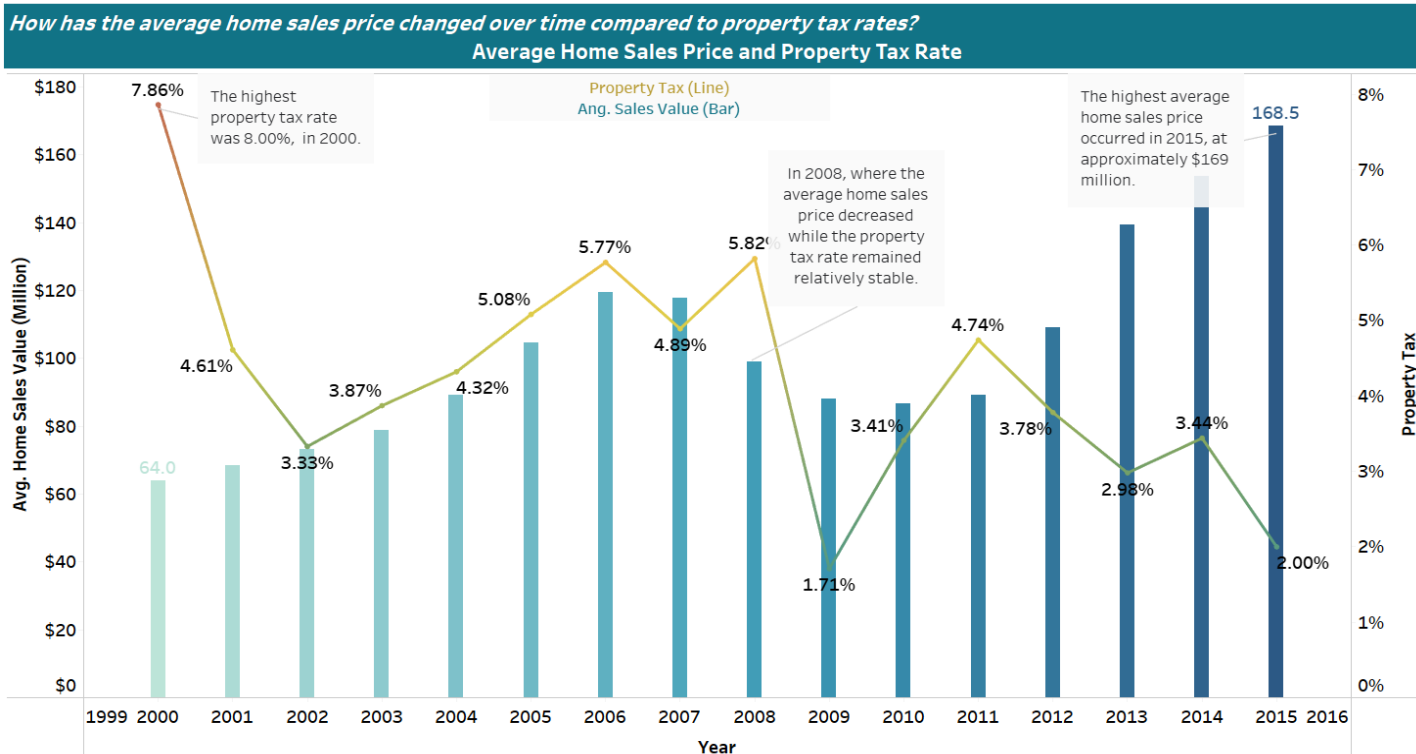
How has Texas's population grown?



How do fluctuations in gasoline prices over the years in Texas?

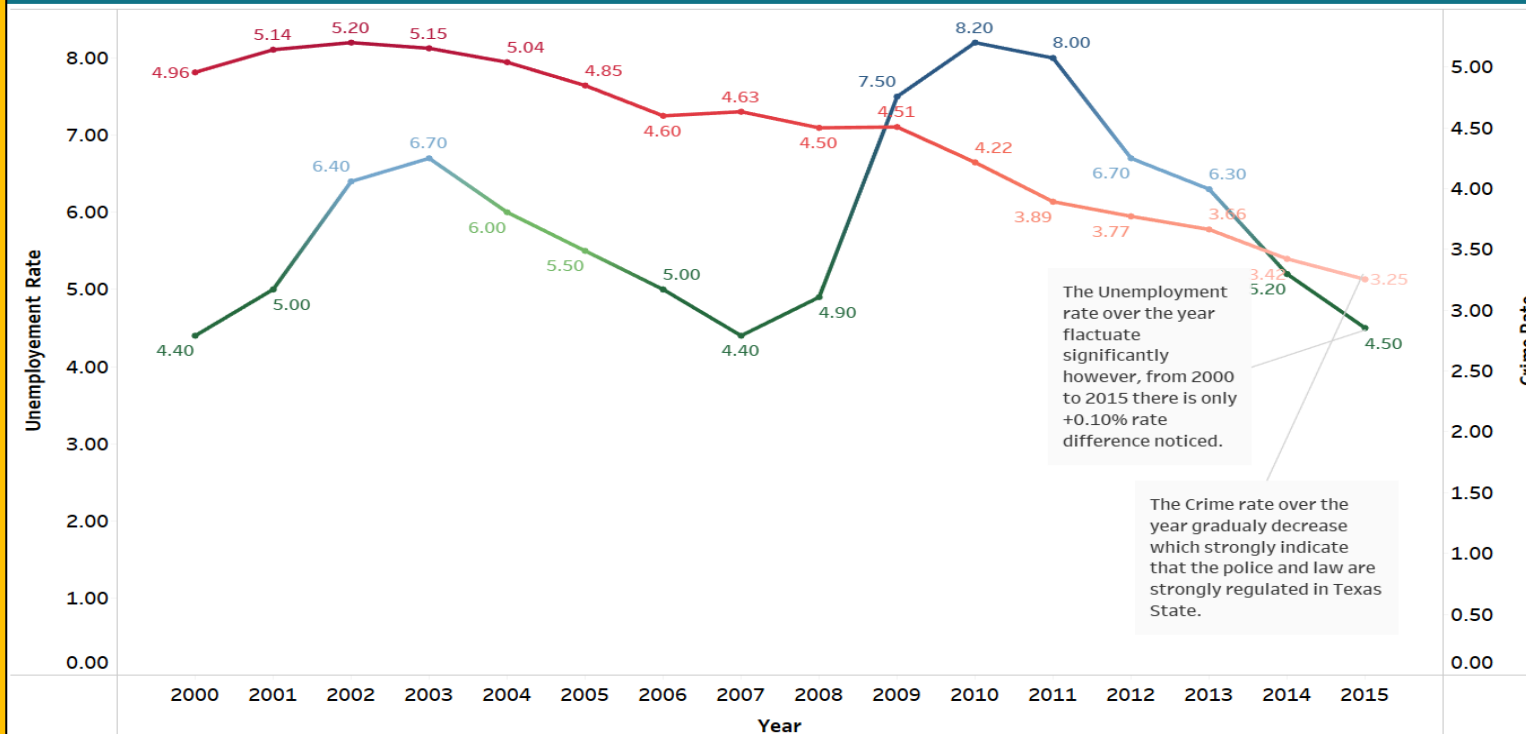


People Up, Prices Unsteady: The Texas Trade-Off



Navigating the Waves of Home Prices and Property Taxes


How does the Unemployment Rate and Crime Rate changes in Texas over time?





Unemployment and Crime: A Tale of Two Challenges


Key Findings – Data-Driven Insights





 **Economic Expansion:** GDP rose from \$990B to \$1.63T, with **population growth of 30%** fueling demand.

 **Housing Surge:** Home prices increased **2.5x**, driven by demand and cost pressures.

 **Living Costs:** Cost of living rose **40%**, closely tied to home prices (**correlation: 0.80**).

 **Affordability Pressure:** Property taxes increased alongside home prices yet showed a moderate negative correlation (-0.40) with sales—indicating potential deterrence for buyers.

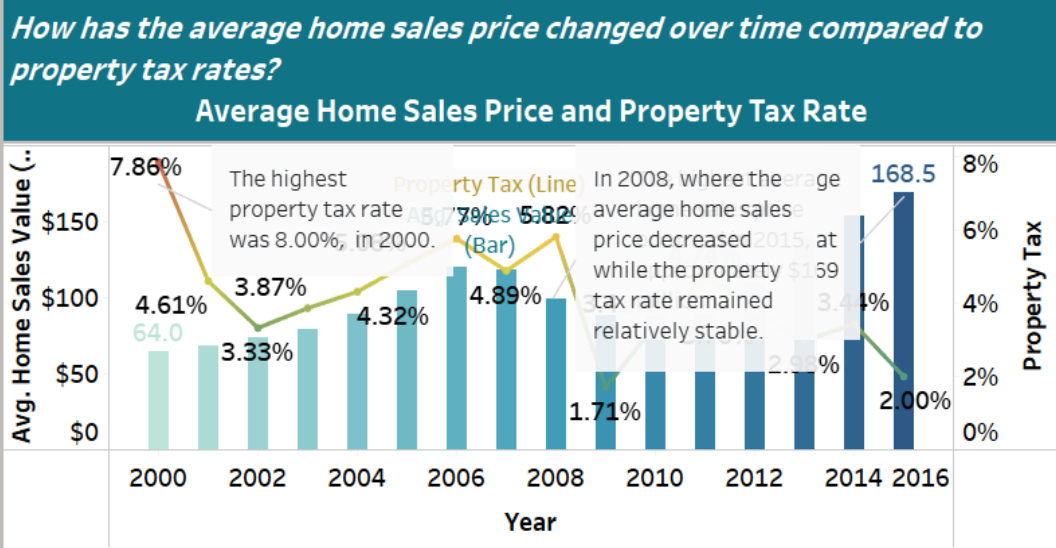
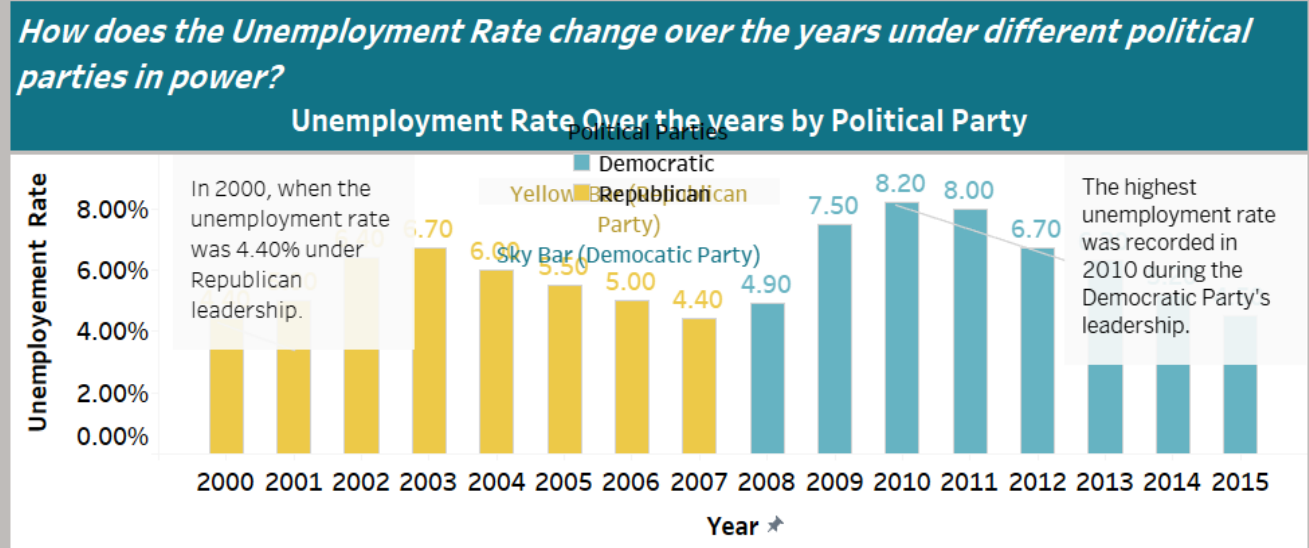
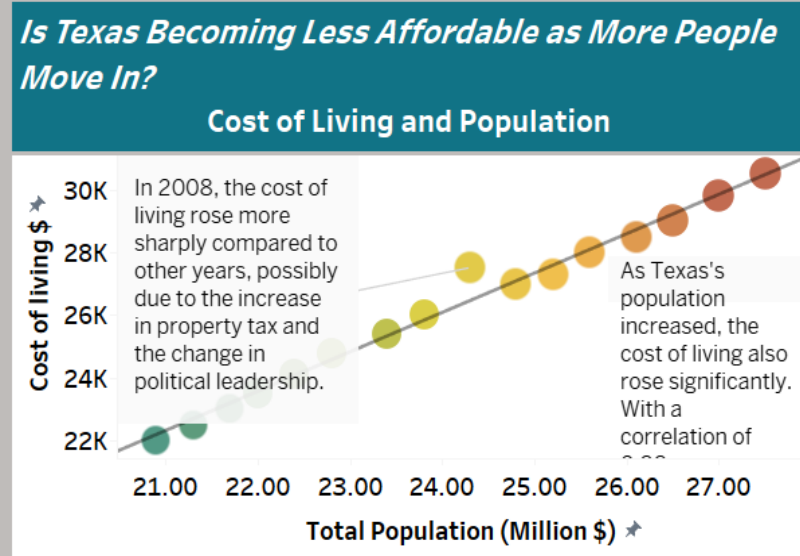
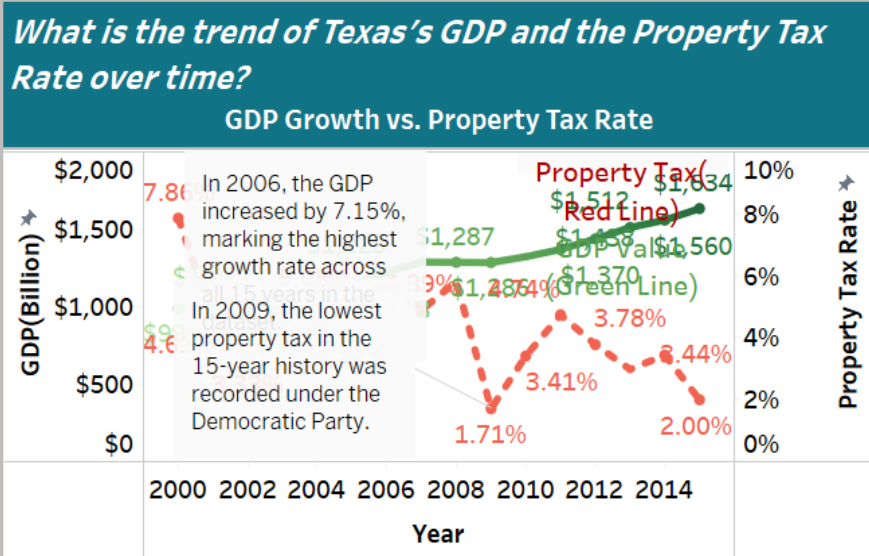
 **Inflation & Politics:** Inflation climbed 40%; political leadership shifted from Republican to Democrat, but market forces, not politics, primarily shaped housing trends.

 **Key Insight:** For Texans, economic growth and population demands were stronger drivers of housing costs than policy changes—highlighting the importance of long-term planning for affordability.

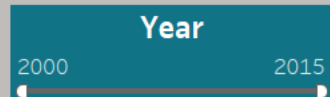
Texas: A 15-Year Journey – Economic and Political Transformation (2000-2015)

Year 2000 ————— 2015	Total Population 385M
Political Parties <input checked="" type="checkbox"/> Democratic <input checked="" type="checkbox"/> Republican	Avg. GDP (\$) 1,268
Avg. No. of Home	Avg. Home Sales Value

Socioeconomic Indicators in Texas				
Political Parties	Avg. Une..	Avg. Crim..	Avg. Prop..	Avg. Cost..
Democratic	6.41%	3.90%	3.49%	\$28,450
Republican	5.43%	4.95%	4.97%	\$23,913



Texas's Social Key Indicators Analysis from 2000 to 2015



Avg. Cost Of Living

\$26,181

Avg. Gasoline Price

2.53

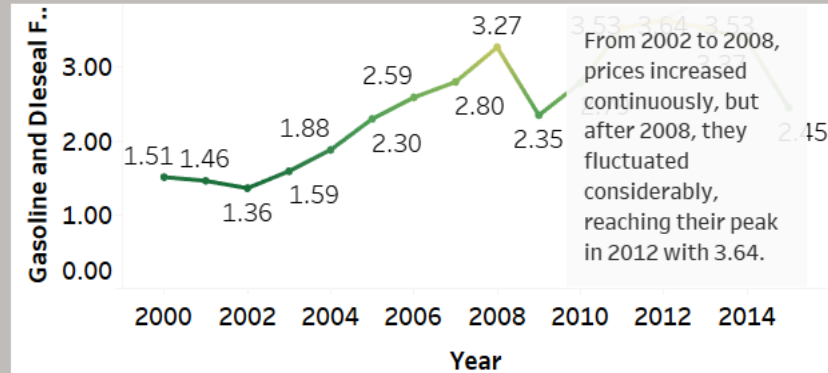
Total Crime

Political Parties	
Democratic	3.90
Republican	4.95

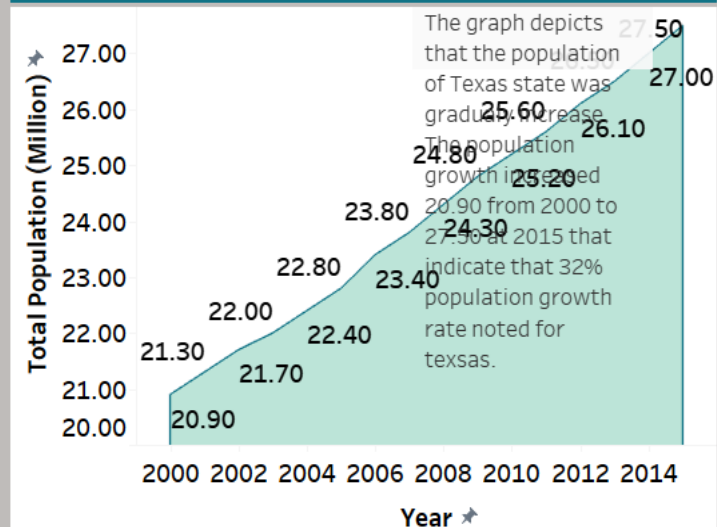
How does the Unemployment Rate and Crime Rate changes in Texas over time?



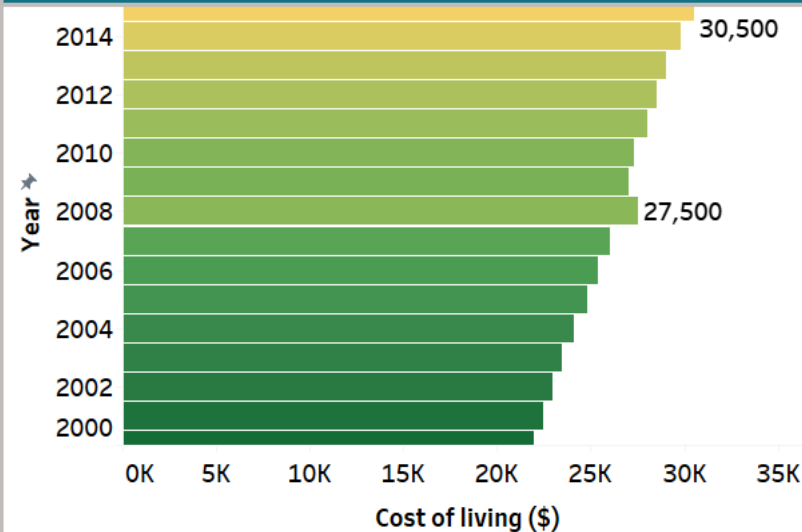
How do fluctuations in gasoline prices over the years in Texas?



How has Texas's population grown?



How has the cost of living changed over the years?



The Movies That Defined Each Year and Rating

The Dark Knight 2008 9.00	Gladiator 2000 8.50	No Country for Old Men 2007	Harry Potter and the Deathly Hallows:	Justice League 2013 8.10
The Lord of the Rings 2001	The Dark Knight Rises 2012	Mad Max: Fury Road		The Incredibles 2004 8.00
Inception 2010 8.80	The Lord of the Rings 2 2002	Pirates of the Caribbean		Avatar 2009 7.90
Interstellar 2014 8.70	Batman Begins 2005 8.20	Casino Royale 2006		