

Business Question and Visualization Report

Date	01 October 2025
Team ID	SWUID20250181698
Project Name	Global Inflation Dynamics (1980-2024): A Comparative Time-Series Analysis
Maximum Marks	5 Marks

Visualization development refers to the process of creating graphical representations of data to facilitate understanding, analysis, and decision-making. The goal is to transform complex datasets into visual formats that are easy to interpret, enabling users to gain insights and make informed decisions. Visualization development involves selecting appropriate visual elements, designing layouts, and using interactive features to enhance the user experience. This process is commonly associated with data visualization tools and platforms, and it plays a crucial role in business intelligence, analytics, and reporting.

Business Questions and Visualisation

Business Question	Visualization Type	Data Fields Used	Answered in Dashboard by:
1. Global Trend: What is the overarching, long-term trend of inflation globally (since 1980), and how does the recent period compare?	Line Chart	Median Inflation (Y-Axis) by Year (X-Axis)	The Global Median Line (usually hidden or implied in the comparative chart).
2. Bloc Comparison: How do the inflation trajectories and volatility of Developed Economies (G7) compare to Emerging Markets (BRICS) since 1980?	Comparative Line Chart	Median Inflation by Year, with Bloc used as the Legend.	The main Center Panel Line Chart.
3. Policy Effectiveness: Has the stability gap between G7 and BRICS widened or narrowed over the last 15 years (post-2010)?	Zoomed Line Chart	The main Line Chart, filtered using the Year Slicer to focus on 2010-2024.	Using the Year Slicer on the main chart.
4. Extreme High Risk: Which countries have experienced the most severe, long-term periods of hyperinflation?	Line Chart (Outliers)	Inflation_Rate by Year for the top 5 countries (e.g., Venezuela).	The Bottom Panel Line Chart (Extreme Outliers).

5. Price Stability Leaders: Which nations demonstrate the highest long-term price stability (lowest average inflation rate)?	Line Chart (Outliers)	Inflation_Rate by Year for the bottom 5 countries (e.g., Japan, Switzerland).	The Bottom Panel Line Chart (Extreme Outliers).
6. Current Risk Level: What is the overall inflation expectation for the current year (2024 forecast)?	Card Visual (KPI)	Current Year Inflation (2024) (DAX Measure).	A KPI Card in the Top Panel.
7. Cross-Sectional Ranking: Where does a country of interest (e.g., the user's country) rank globally in terms of recent inflation? Table/Bar	Table/Bar Chart	A Bar Chart showing the Median Inflation for a selected year (e.g., 2023) across all countries.	Using the Country Slicer to highlight the country on a ranking visual (not explicitly shown in the provided dashboard image, but essential for deep analysis).
8. Outlier Impact: How often did the G7 bloc experience inflation above a typical central bank target (e.g., 4%)?	DAX Measure / Column	A DAX measure counting years where G7 Median Inflation > 4%.	A Table or Card Visual for reporting on policy compliance.