**World Food Production Dashboard (1961–2023)**

### Objective

This dashboard project aims to analyze global food production trends across major crops from 1961 to 2023. The visualizations highlight total production volumes, geographic contributions, year-wise growth, and comparative analysis of fruits and cereals.

### Dashboard Overview

#### Page 1: Global Production Overview

1. **Key Metrics**
   * **Wheat Production**: 282 billion tonnes
   * **Rice Production**: 269 billion tonnes
   * **Tea Production**: 2 billion tonnes
2. **Green Coffee Production by Country**
   * Countries like **Africa**, **Vietnam**, **Brazil**, and **Indonesia** lead in the production of green coffee.
   * Africa (including Uganda and Ethiopia) stands out as the top contributor.
3. **Cereal Production Over Time (Line Chart)**
   * A time-series line chart displays the annual production of **wheat**, **rice**, and **maize**.
   * Wheat production shows the most significant growth post-2000.
4. **Fruit Production by Country**
   * This multi-series bar chart compares the production of **avocados**, **apples**, **bananas**, and **oranges** by country.
   * Countries like **India**, **USA**, **China**, and **Mexico** dominate fruit production in various categories.
5. **Maize Production by Year (Donut Chart)**
   * This chart visualizes maize production across specific years (1961–2006).
   * It reveals a consistent rise, especially from the late 1980s onward.

#### 📄 Page 2: Fruit Production Comparison & Summary Report

1. **Total Fruit Production (Bar Chart)**
   * **Grapes**: 43 billion tonnes (highest among the fruits)
   * **Apples**: 39 billion tonnes
   * **Bananas**: 32 billion tonnes
   * **Oranges**: 26 billion tonnes
2. **Summary Report (Text Insights)**
   * Total production of key commodities:
     + Wheat: 282 bn tonnes
     + Rice: 269 bn tonnes
     + Tea: 2 bn tonnes
   * Green coffee is predominantly produced in Africa, followed by America and Asia.
   * Wheat, maize, and rice have shown consistent production increases from 1961–2023.
   * Maize production saw major growth spurts in the late 1980s and early 2000s.
   * Fruits like grapes, apples, and bananas are widely produced in Asia and Europe.
3. **Design Enhancement**
   * A visual element of a fruit-filled globe symbolizes the global interconnection of agriculture and food production.

### Conclusion

This dashboard provides a detailed, visual-driven understanding of how food production has evolved worldwide over six decades. With clear trends and region-wise contributions, it can support research, policy-making, and food sustainability studies.