FIT3179 DATA VISUALISATION 2

Student Name: KOMAL GUPTA

Student ID: 32462107

LINK TO GITHUB PAGE: https://komalgx.github.io/DataVis2Assignment/

The domain of this project is the Australian **forestry industry**, focusing on the **economic** and **environmental** aspects across different states.

- Why: These visualizations aim to provide insights into forest growth, log harvesting, and economic value, helping users identify trends and understand regional differences. By making the data visual, it aids policymakers, economists, and environmentalists in decision-making processes.
- Who: The target audience includes government officials, forestry companies, environmental advocates, and the general public. The visualizations also serve as educational tools for students and researchers in forestry, economics, and environmental sciences.

The data comes from the **Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES)**. It includes information on forest areas (softwood and hardwood), log volumes, log values, and sales income by state.

- **Sources**: The ABARES website provides reliable, up-to-date data, relevant for understanding the current and historical state of forestry in Australia.
- **Relevance**: This data reveals regional and national trends in forest management, crucial for economic and environmental planning.
- Creation Process: The visualizations were created using Vega-Lite, with preprocessed CSV files.
- Author: Komal Gupta

Each visualization idiom was selected to clearly communicate relevant data:

- 1. **Choropleth Map**: Shows the sales income by state, making regional economic differences easy to understand.
- 2. **Time Series Chart**: Tracks the growth of softwood and hardwood plantations over time, illustrating long-term trends and regional differences.
- 3. **Stacked Area Chart**: Displays how much each state contributes to total log harvests, offering a complete picture of the forestry industry's production.
- 4. **Bubble Chart**: Compares log volume, value, and forest area across states, showing how states balance forest size and economic output.
- 5. **Donut Chart**: Visualizes each state's contribution to the total log value, showing their role in the overall forestry economy.

5 DESIGN SHEETS









