Week 10 Homework: Interactive Visualisation Report

Name: Chris How  
Monash ID: 32487495  
Studio 10  
Tutor name: Bruno

**Task 1: Interactive Visualisation Outcome**

**Visualisation 1: Loan Commitments Map**

A map of australia with red and black colors

Description automatically generated

Description:  
This interactive map visualises home buyer loan commitments across Australian states. Users can hover over each state to view the exact number of loan commitments. A colour scale represents the quantitative values, where darker shades indicate higher loan commitments.

**Visualisation 2: Loan Commitments Over Time (by State and Month)**

A graph showing a graph of a graph

Description automatically generated with medium confidence

Description:  
This line chart tracks loan commitments over time for a selected state. Users can filter by state using the dropdown menu and view loan commitments trends across different months for each state. The x-axis represents the months, and the y-axis shows the loan commitments.

**Task 2: HTML Page Outcome**

URL: <https://chrish0w.github.io/FIT3179/>

**Bullet Points:**

1. **Domain of Data Visualisation 2**:  
   *Cost of Living in Australia*  
   The visualisation compares cost of living across different states in Australia.
2. **Visualised Dataset**:
   * **Attributes**:
     + State: Nominal (State names like New South Wales, Victoria, etc.)
     + Month: Ordinal (Month-Year, e.g., Jan-07, Feb-07)
     + Loan\_Commitments: Quantitative (Number of home buyer loan commitments)
   * **Data Source**:  
     The dataset is based on loan commitments data sourced from publicly available Australian government statistics.
3. **Justification for Visualisation Idiom**:
   * **Map**: The map was chosen to provide a clear geographical representation of how loan commitments are distributed across Australian states. This visualisation is particularly effective for showing regional differences.
   * **Line Chart**: The line chart is well-suited for showing temporal trends, enabling users to observe loan commitment patterns over time for each state. It helps identify trends and seasonal variations in the data.