

## FIT3179 Week 9 Homework

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**Lab:** 5 (Wednesday 8am – 10am)

**Lab Tutor:** Dr Ting Chai Wen

**URL (GitHub):** [https://github.com/Helenaaxx/FIT3179/tree/main/Week\\_10\\_Homework](https://github.com/Helenaaxx/FIT3179/tree/main/Week_10_Homework)

**URL (HTML):** <http://127.0.0.1:5500/Week%2010/Homework%20files/week10homework.html>

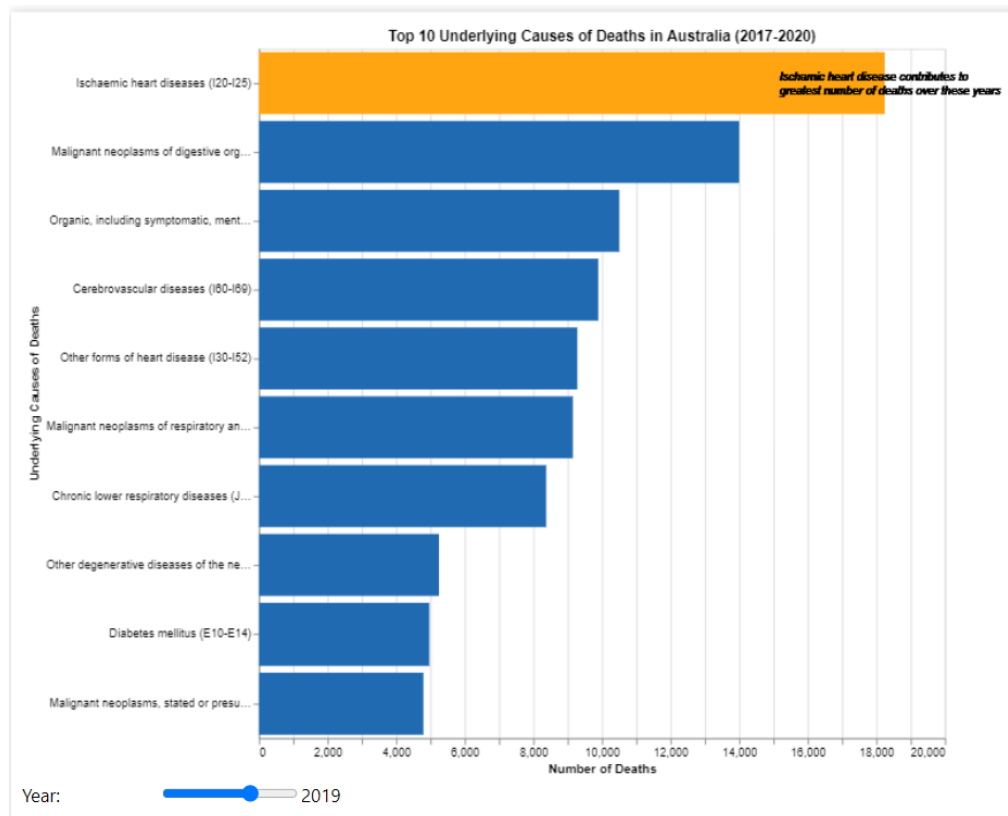


Figure 1: Screenshot of Interactive Visualisation for Task 1: “Top 10 Underlying Causes of Deaths in Australia (2017-2020)”

### FIT3179 Week 10 Homework Interactive Visualisation

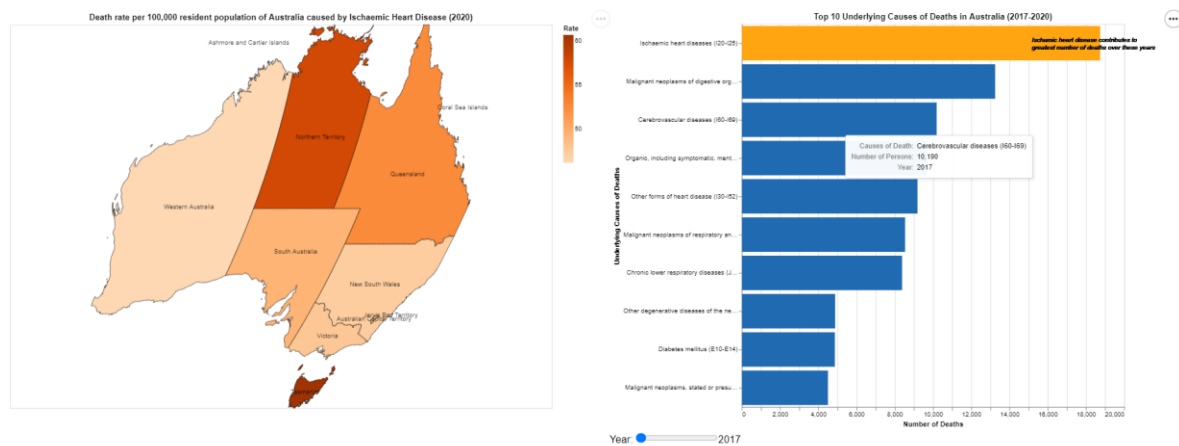


Figure 2: Screenshot of HTML page for Task 2

- **Domain (for visualization project 2):** Causes of Deaths in Australia
  - **Domain (for homework):** Top 10 Underlying Causes of Deaths in Australia
  - **Datatype:** bar chart
  - **Data source:** <https://www.abs.gov.au/statistics/health/causes-death/causes-death-australia/2020#data-download>
  - **Author/ Department:** Australian Bureau of Statistics
  - **What:**  
Bar chart is used to show the number of deaths of due to different underlying causes in Australia.
  - **Data Attribute:**
    - Quantitative Attribute: Number of Deaths
    - Nominal/ Categorical Attribute: Causes of Deaths
    - Ordinal Attribute: Year
  - **Why:**  
To compare the number of deaths between different causes, and to identify the cause that results in highest number of deaths.
  - **How:**
    - **Marks:** Lines (bars)
    - **Channel:** Length to express the quantitative attribute
  - **Justification of type of map idiom used:**  
Bar chart is used because it is comparing between a quantitative attribute with a categorical attribute. By using the year slider, we can as well visualize how the bars changed for different year. By sorting the bars in a descending manner, we can easily identify the major cause of deaths in Australia.
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