Canadian Cancer Society

Cancer Prevalence in Canada

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Project Overview

This project analyzes different categories for cancer data for each of provinces in canada, which all data was retrieved from the Canadian Cancer Society Portal

Our project aims to provide a comprehensive analysis of cancer prevalence in Canada, with the goal of identifying potential areas for further research and intervention to reduce the burden of cancer in Canada. By using interactive visualization tools, we hope to enhance the accessibility and impact of our findings.

Data Cleaning

Data Collection and Cleaning
- Data resource : Canadian Cancer Society Data Portal
- Merged and reorganized

Process and Decision Making

1. Brainstorm ideas

2. Finalizing Topic
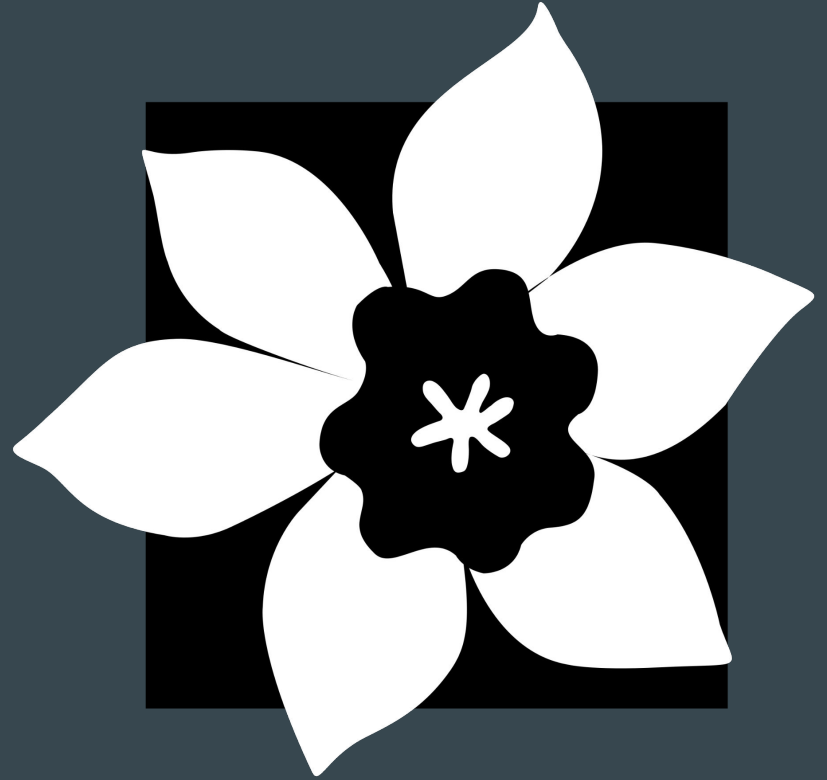
3. Task Allocation

4. Front End

5. Database

6. Data Collection & Cleaning
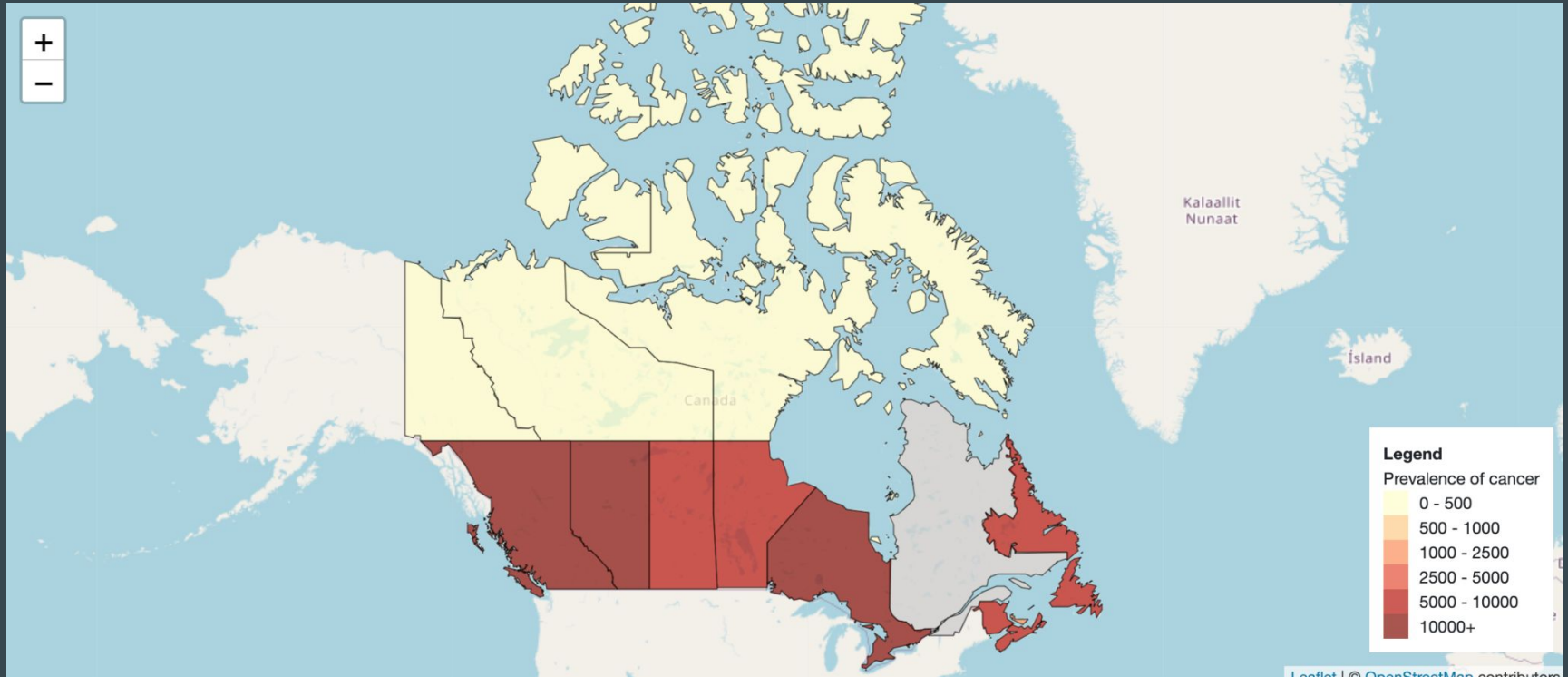
7. Consolidate Contribution

8. Final Review

AGENDA

- What are the top 10 most prevalent cancers in each province in Canada?
- What provinces have the highest prevalence of a certain cancer in Canada and what are the potential reasons for the difference in prevalence compared to other provinces?
- What are the differences in cancer incidence rates between males and females in Canada?
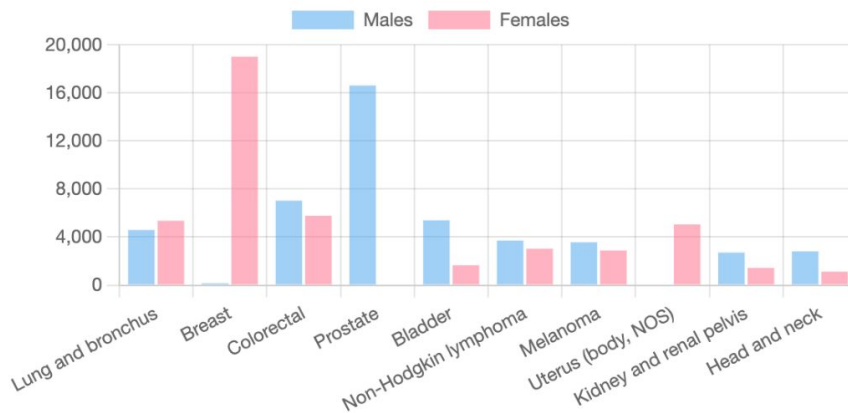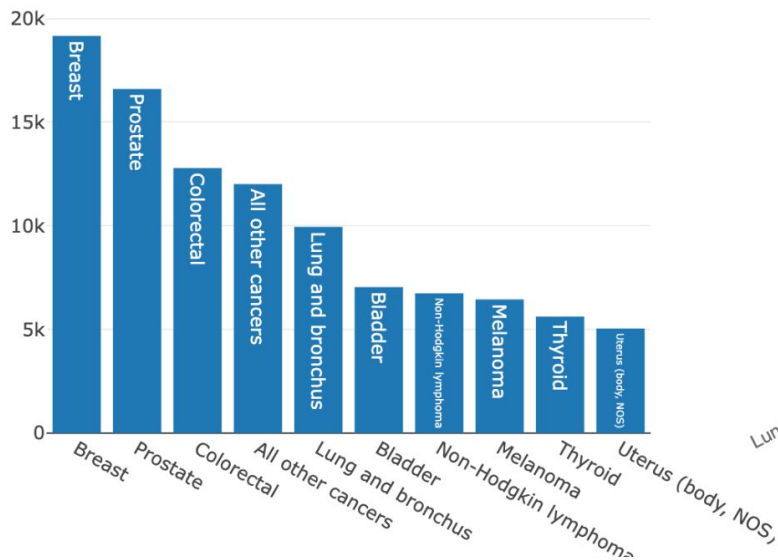
Interactive Map

Prevalence of cancer (all types) in Canada by provinces

Legend

Prevalence of cancer

- 0 - 500
- 500 - 1000
- 1000 - 2500
- 2500 - 5000
- 5000 - 10000
- 10000+

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Interactive Graphs

Top 10 Cancers found in **Ontario** by gender

Interactive Graphs

Top 10 Cancers found in **British Columbia** by gender
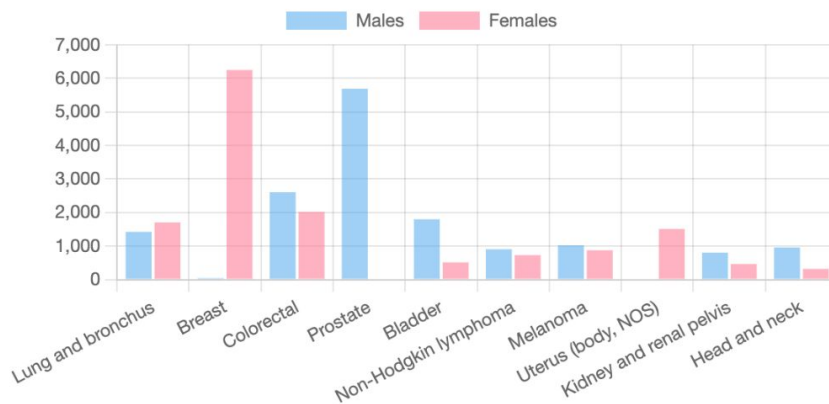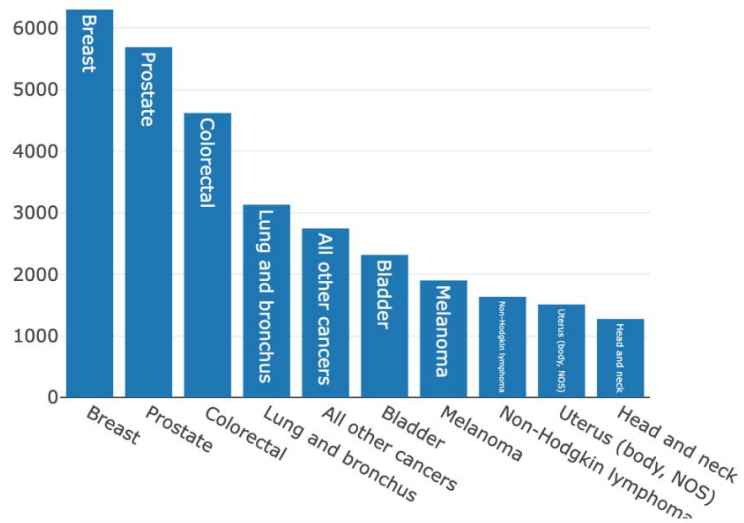
Summary of Findings

- 3 most common cancers across provinces: breast, prostate, colorectal
- Ontario province has highest count of most cancers
- Nunavut has the lowest count of most cancers
- Breast, uterine, lung and bronchus cancers: more prevalent among females
- Prostate, colorectal and bladder cancers: more prevalent among males

Limitations

1	2	3
Dataset does not represent most recent times, would be more representative with more years of data available	Quebec data is missing from the provincial data	Missing data in few rows of male and female columns

Future Implications

Our dashboard makes it easier to determine in which provinces certain cancers are more prevalent. This will assist scientific research in conducting clinical trials and government intervention in order to reduce the number of cancer cases across Canada.

The End

We would like to thank our instructor Madhur, as well as our TA's Josh and Ken, for their guidance throughout our fun project!