

FOCUS

Focus on the choropleth map, which serve as the primary visualization. This map provides a geographic representation of cancer death rates, allowing users to visually compare the burden of cancer across different countries or region.

Key Features :

· Color Saturation :

- Intensity of the map's colors reflects the cancer death rate in each country. Darker shades represent higher death rates.

· Year Selection Feature: 17071 which updates
-7 Users can chouse any year from 2000 to 2021 the may accordingly.

Anthor : Chun Chi Heng

Date: 1-10-2024

Sheet: 2

Task: FIT 3179 Az

#### OPERATION

Choropleth map

- · Year Selection
- Allow occurs to select species year to well.
- · Hover Tooltip
- When users hover a specific region on the map, a tultip appears providing additional information.

Scatter plot

- · Continent Selection
- Users can tilter the scatter plot by continent, allowed for touned comparisons of cancer death rates across countries within the selected continent.
- · Line chart
- Annotations at Highest Cancer Rate, displays the trend of canca death rates over time.

DISCUSSION

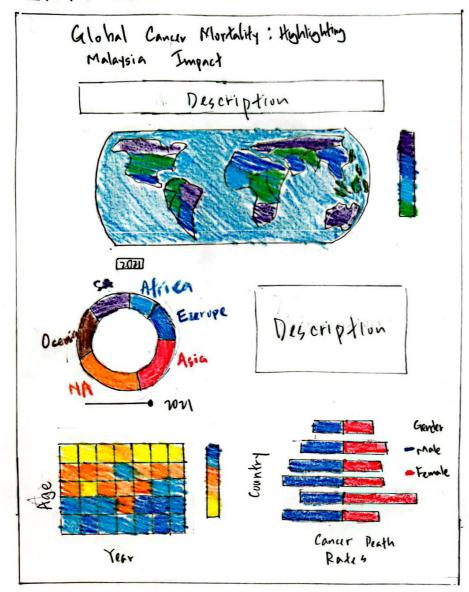
# Advantages:

- Comprehensive Overview: The combination of different visualization types provides a holistic view of cancer mortally data from muttiple perspectives.
- \* Interactivity: Features like hover tooltips, year sliders, and continent selection enhance usa empoyement.

Disadvantages "

· Complexity: The variety of visualizations may vulywhelm users, making it challenging to extuat clear insights without careful glance.

# LAYOUT



# FOCUS

Focus on heatmap, which serve as primary visualization to illustrate cancer death rates across defluent age groups. This heatmap uses a color gradient to represent martiality votes, with darker shades indicating higher rates, allowing for acrick visual comparisons.

key Features:

· Color Gradient la Viprisint concer death rates across various age group.

· Yearly Comparison

- Represent data across multiple years, allowing users to observe trends and functions in cancer mortality vates.

Anthor: Chun Chi Heng

Date: 1-10-2024

Sheek: 3

Task: FIT3179 AZ

# OPERATION

Choropleth mag

- · Year Sclection feature to fifter data from 2000 to 2021
- Donnt Charl
- · Year Slider from zon to zorl for visualizing changes in mortality rates by continent.

Heatmap

- · Tookips that show detailed concer death value when hovering over apreide edls.
- · Potential filtering options for specific age groups.

Diverging Stacked bor Chart

Branchertions to highlight

significant differences in

cancer death rates between

genders over time.

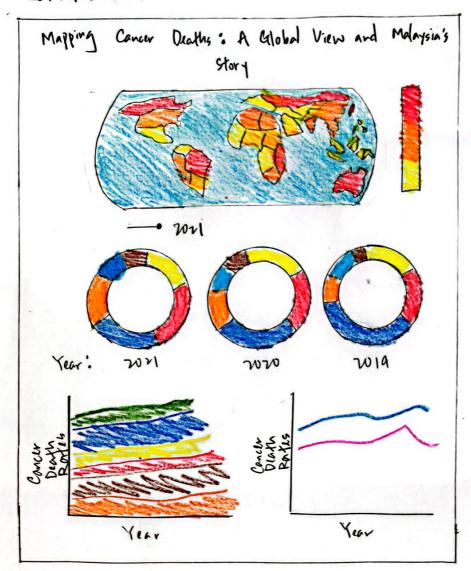
# DISCUSSION

Advantages:

Clear Comparisons:
The different visualization
facilitate easy comparisons
across region, age groups,
and gender, helping to identity
disparities and focus aveas
for public health interventions
Disadvantages:

Potential Outrevonding: If not carrivally designed, the visualizations may become eluttered with too for much information, making it difficult for heres to discern by messages or trans

# LAYOUT



# FOCUS

toons on the line chart, which illustrates cancer death rates for both genders over time.

Two distinct lines represent male and female mortality votes, allowing for direct comparison of trinds between two owners.

## Key Features :

· Annotations:

Key dala points are annotated at the peaks of concer death rates, providing dontort and highlighting

Time Series Analysis: significant changes or events in the timeline.

The line chart spans multiple years, allowing for rates comprehensive analysis of trends and shifts in cancer mutalth time.

Author: Chun Chi Heng

Parte: 1-10-2024

Sheek: 4

Task: FIT3179 Az

## OPERATION

Choropleth map

- · Year slider that allow Users to view cancer death rates from zoon to worl.
- Donut Chart
- cancer mortality data for the years war, was and

Area chart

· Tuiltips that display
detailed information about
concer types and corresponding
death rates when hovering
over specific areas of the
chart.

Line Chart

· Annotations added at significant plats in concer death rates for both penders, highlighting critical data points for easy reference.

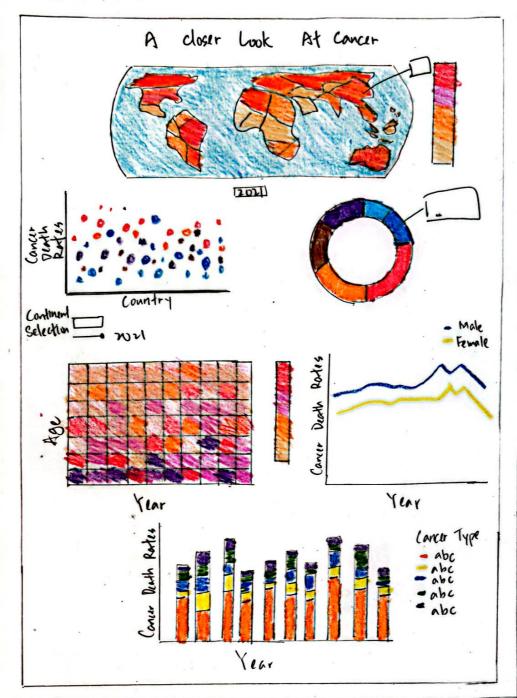
# DIS CUSSI OH

Advantages:

Effective Comparison Across
Years: The use of multiple
count charts for different
teas allows for straightforward
comparisons of concer mortality
data over time.

Disadvantages:

· Limited Depth of Analysis: While the visualizations provide a broad overview, they may lack the depth needed for more detailed analysis.



FOCUS

tocus on the analysis Iwm a worldwide prespective, and tirally to maying. Utilizes various visualization, starting with champleth map for global data, Pollowed by a bubble chart to compose continent and country. Heat, the heatmap reveals age group trends within malaysia, while the line chart highlights gender disparities in cancer deaths. Finally, the stacked bar chart privides an in-depth look at distribution of cancer types.

Author: Chun Chi Herry Date: 1-10-2024

Sheet: 5

Tak: FIT 3179 AZ

#### OPERATION

Choropieth Map

· Year Selection to view global cancer mortality rates from different years.

Bubble Chart

- · Continent selection specific
- · Year slider
  - enables explorations of data across different years.

Donnt Chart

o Tooltips display the percentage breakdown of cancer deaths by courtinent, providing an easy comparison of the proportion of deaths across regions.

Line Chart

- · Annotations mark the peak cancer death votes for each gender, highlighting significant drends over time.
- stacked Bar Chard
  Tooltips provide specific
  details for each cancer
  type's contribution to the
  overall mortality rate, allowing
  for a clear companison
  across types.

DETAILS

Algorithms:

7 Use R to aggregate cancer death votes.

Estimated Time:

Ly 2 day for data prepention
Ly 1 idioms per day specific
Ly Testing 2 days Ensure do

