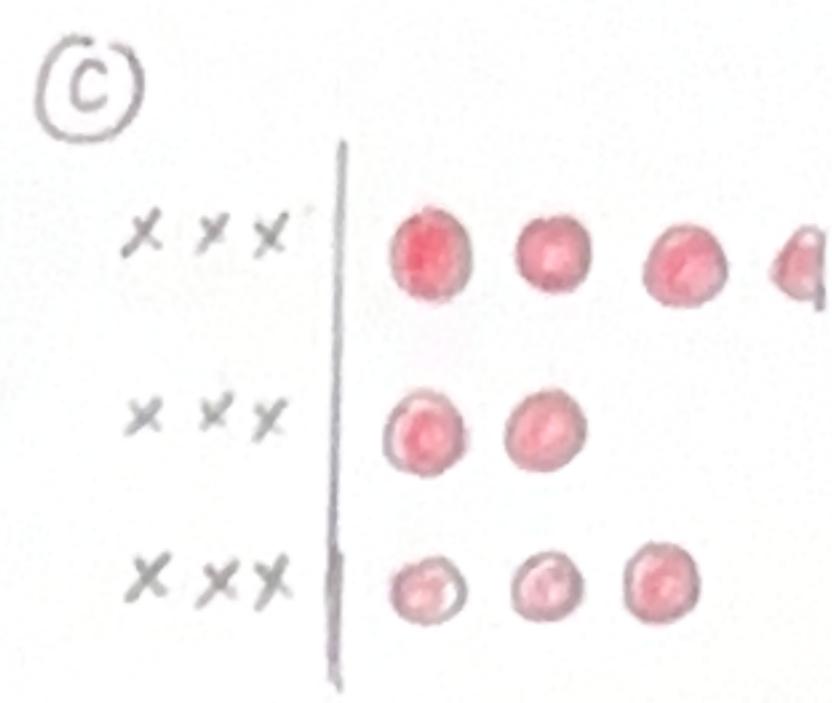
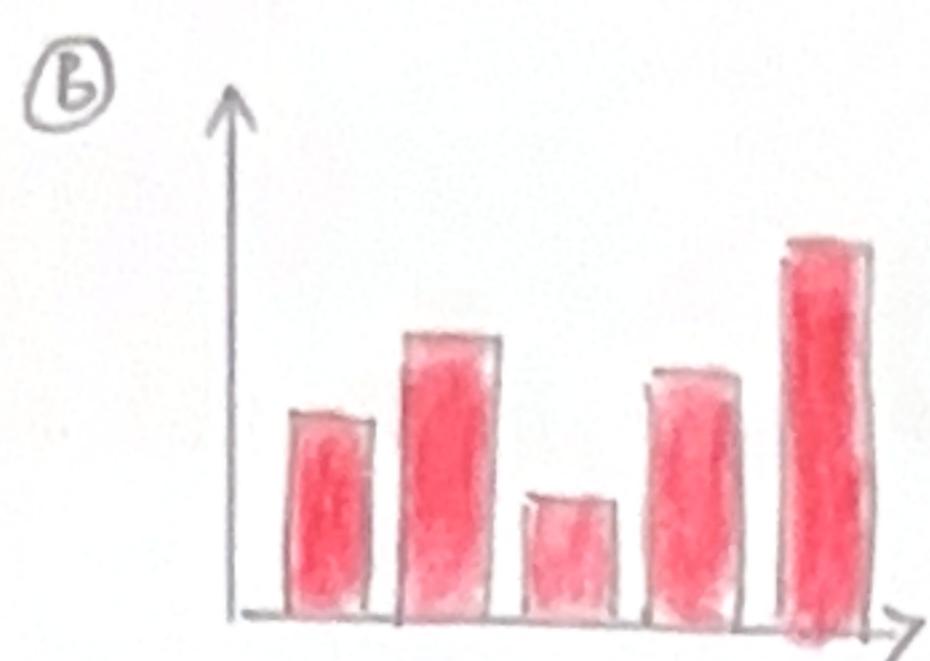
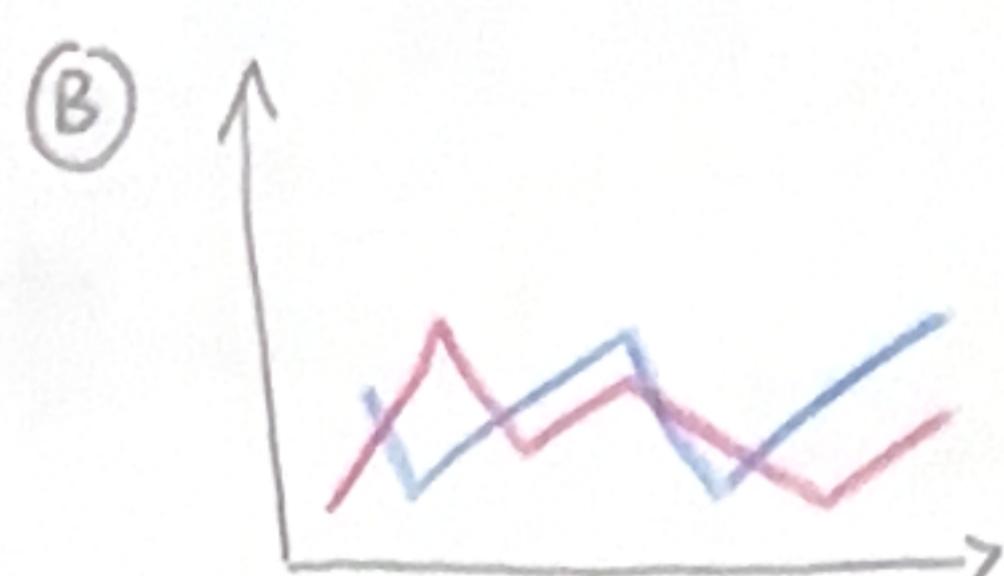
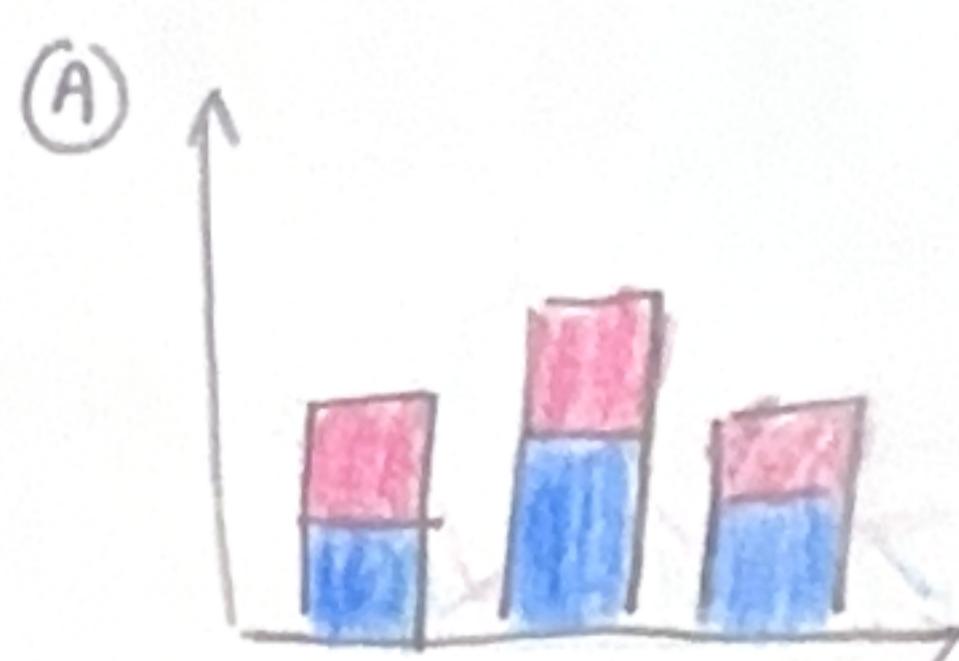


IDEAS

① Countries vs medals



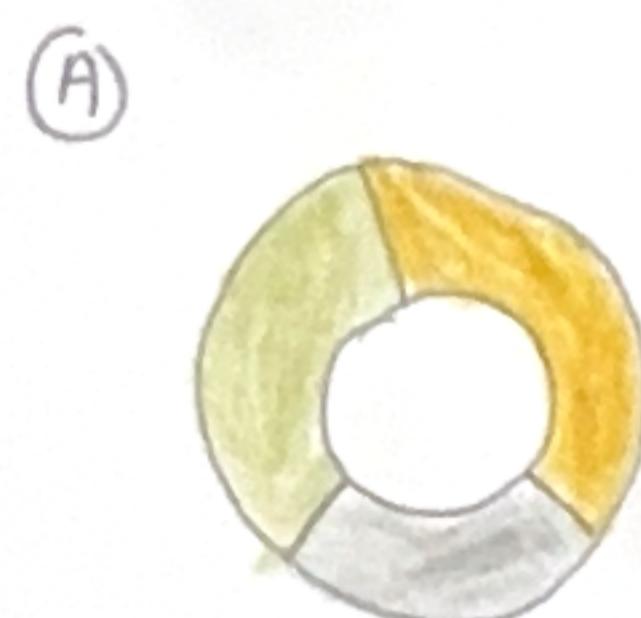
② + ③ Participation vs year (by Gender) [Winter/Summer]



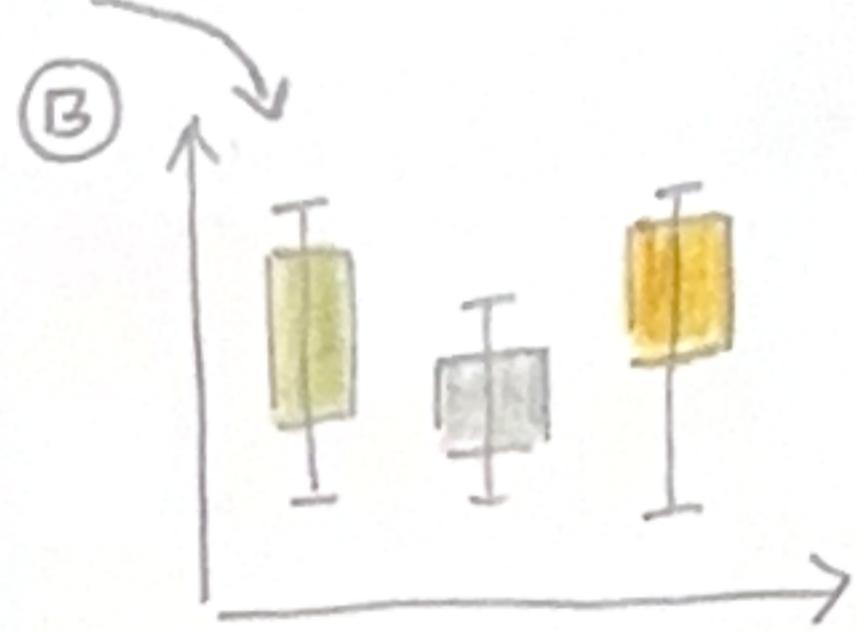
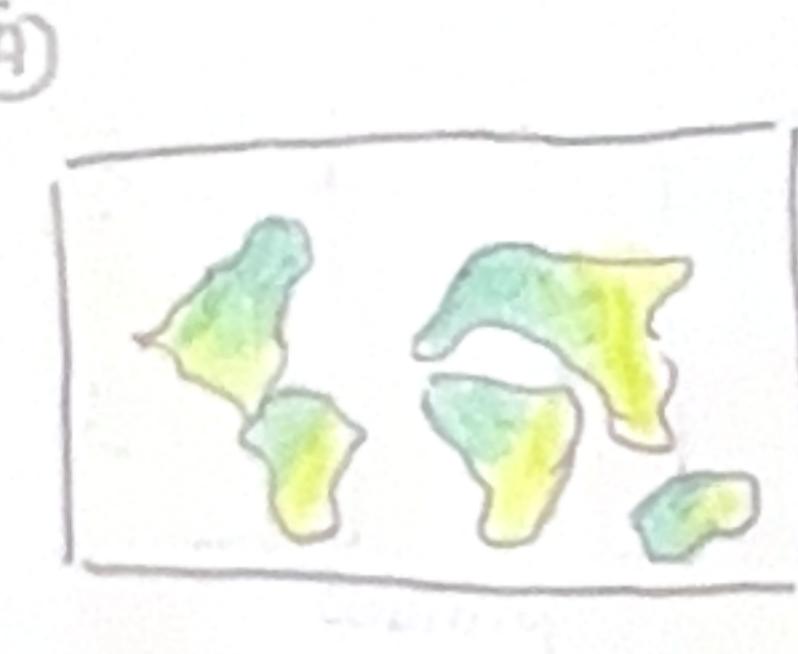
(II) Athletes physical attribute



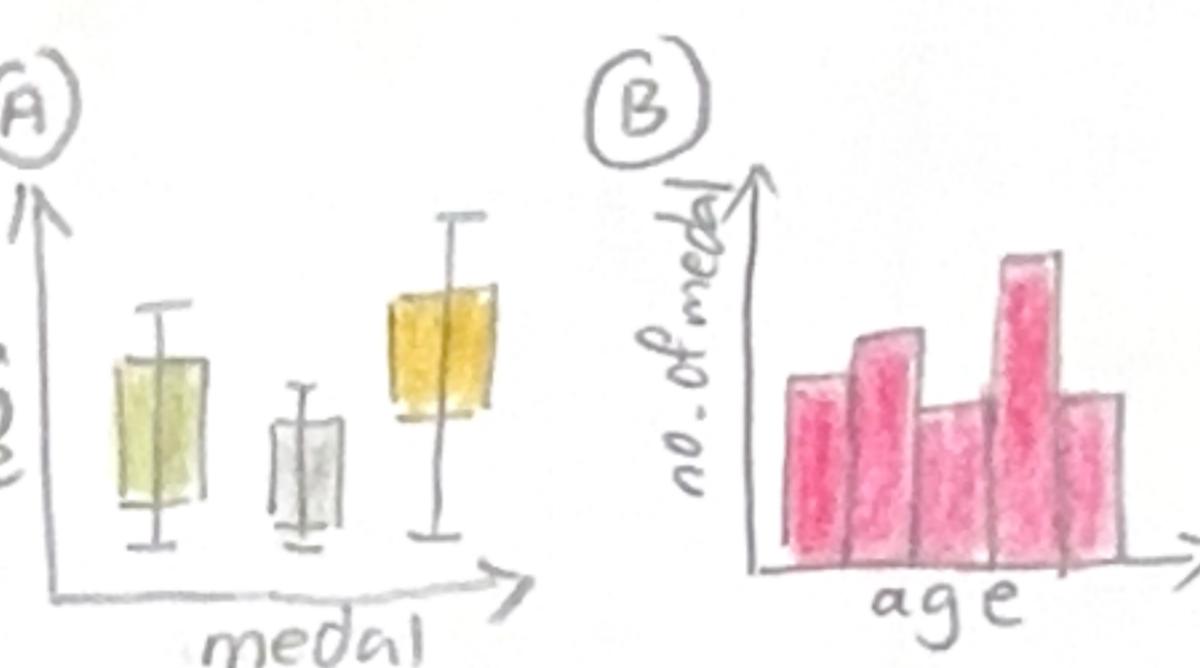
④ medal breakdown by country



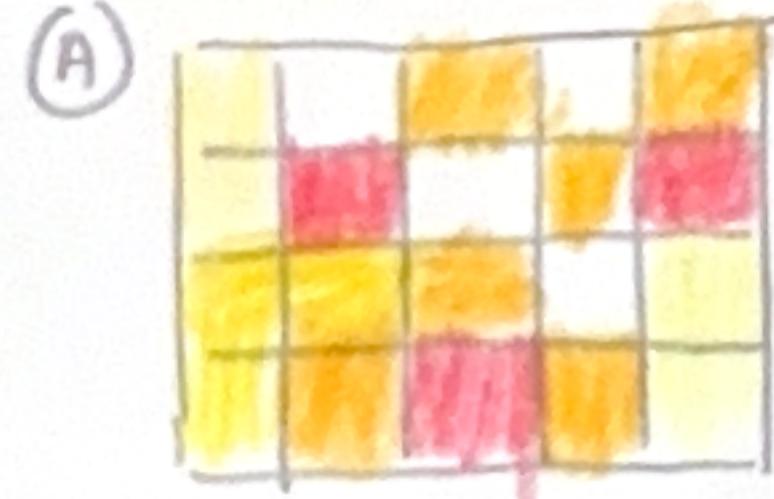
⑤ + ⑥ Country vs age + country vs BMI (medal count)



(7) Age vs medal count



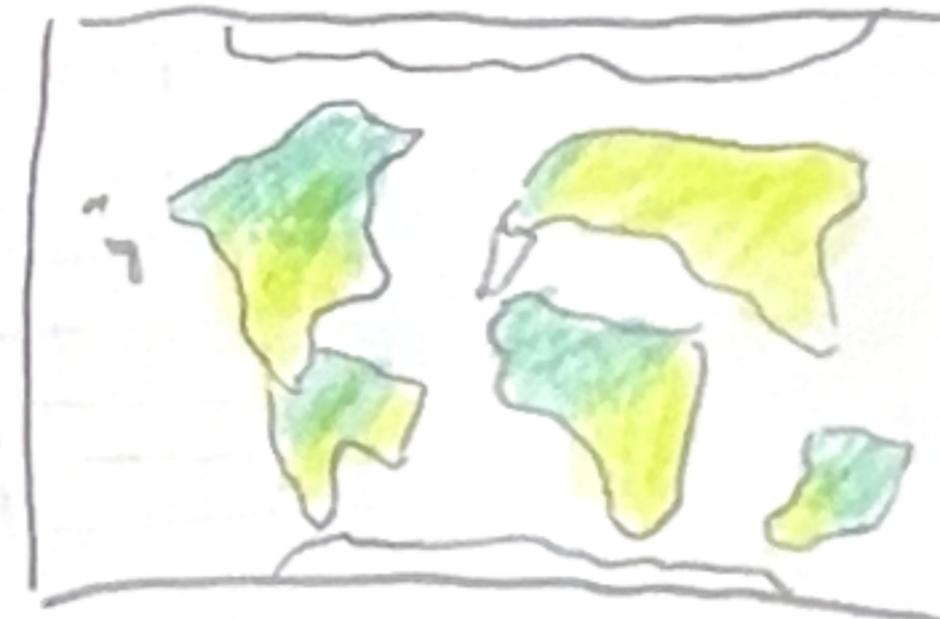
⑧ country vs sport



(9) City that hosted most
(A) word cloud

New York
Paris TOKYO
BEIJING
Milan

(10) Continent comparison



CATEGORIZE

→ ① / ④ / ⑧

* compare performance/participation between countries

→ ② / ③ / ⑨

* show frequency over time

→ ⑤ / ⑥ / ⑦

* athlete demographics

QUESTIONS

(1) Should I use choropeth map with normalized value with 1st map or a proportional map?

(2) Will the ② + ③ A + B overlap during coding phase that makes visualization to seem unclear

(3) Do I put all sport selection for & A or just the top few most participated sport

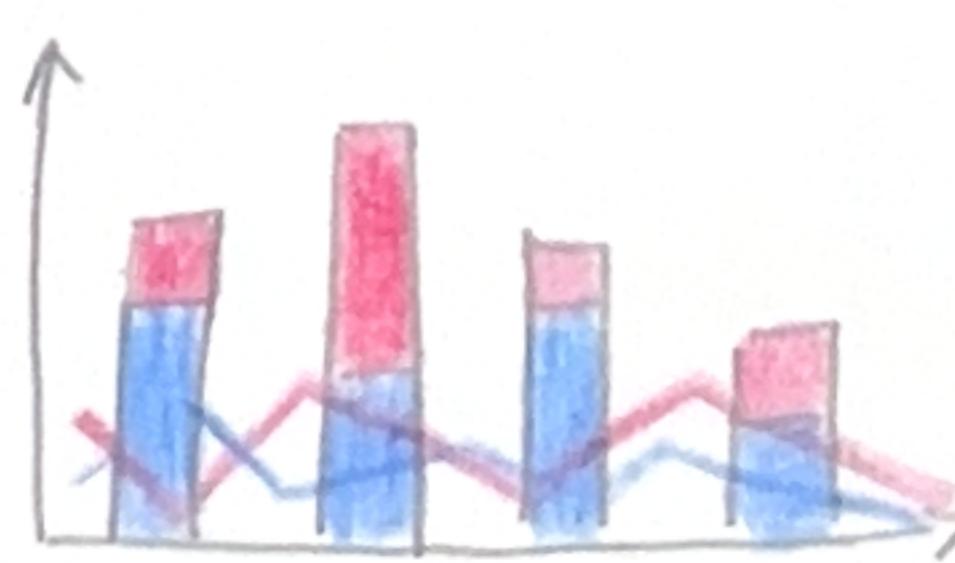
Filter

① City that hosted most will be removed since the city that hosted most olympics has only 3

② In ④, 4A & 4C is actually very same only 4A will be kept since it can provide more info

COMBINE & REFINER

1. ② & ③ will be combine for clearer visuals



→ visual can be easily compared without confusion

2. ⑤ + ⑥ + ⑦ can be medals only

3. A can be combined into a map for more detailed visual

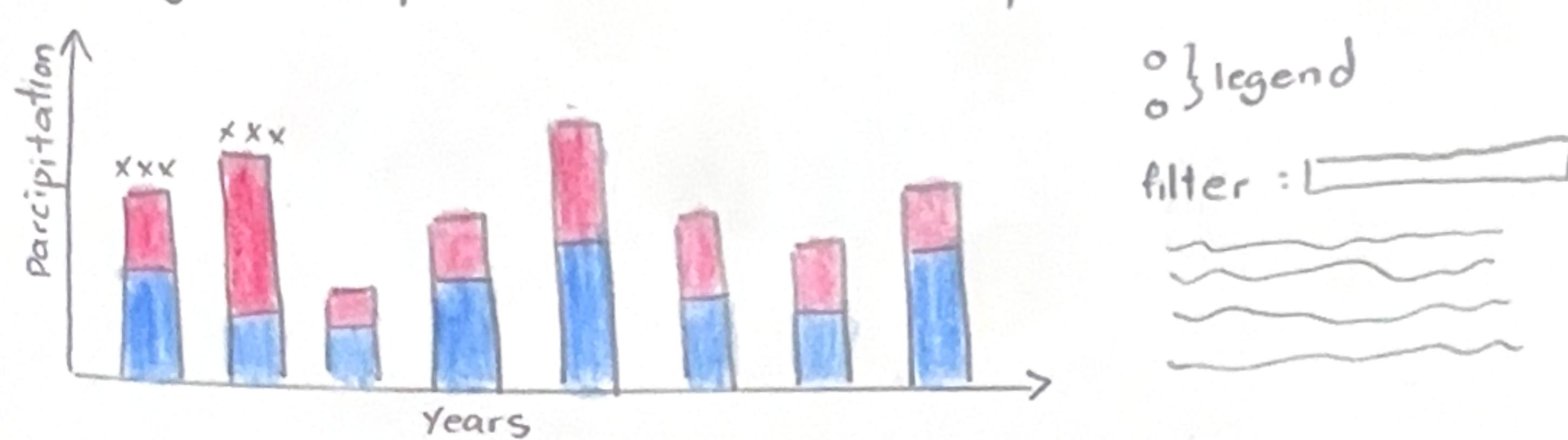
LAYOUT

OLYMPICS THROUGH THE YEARS

: How Games & athletes evolved

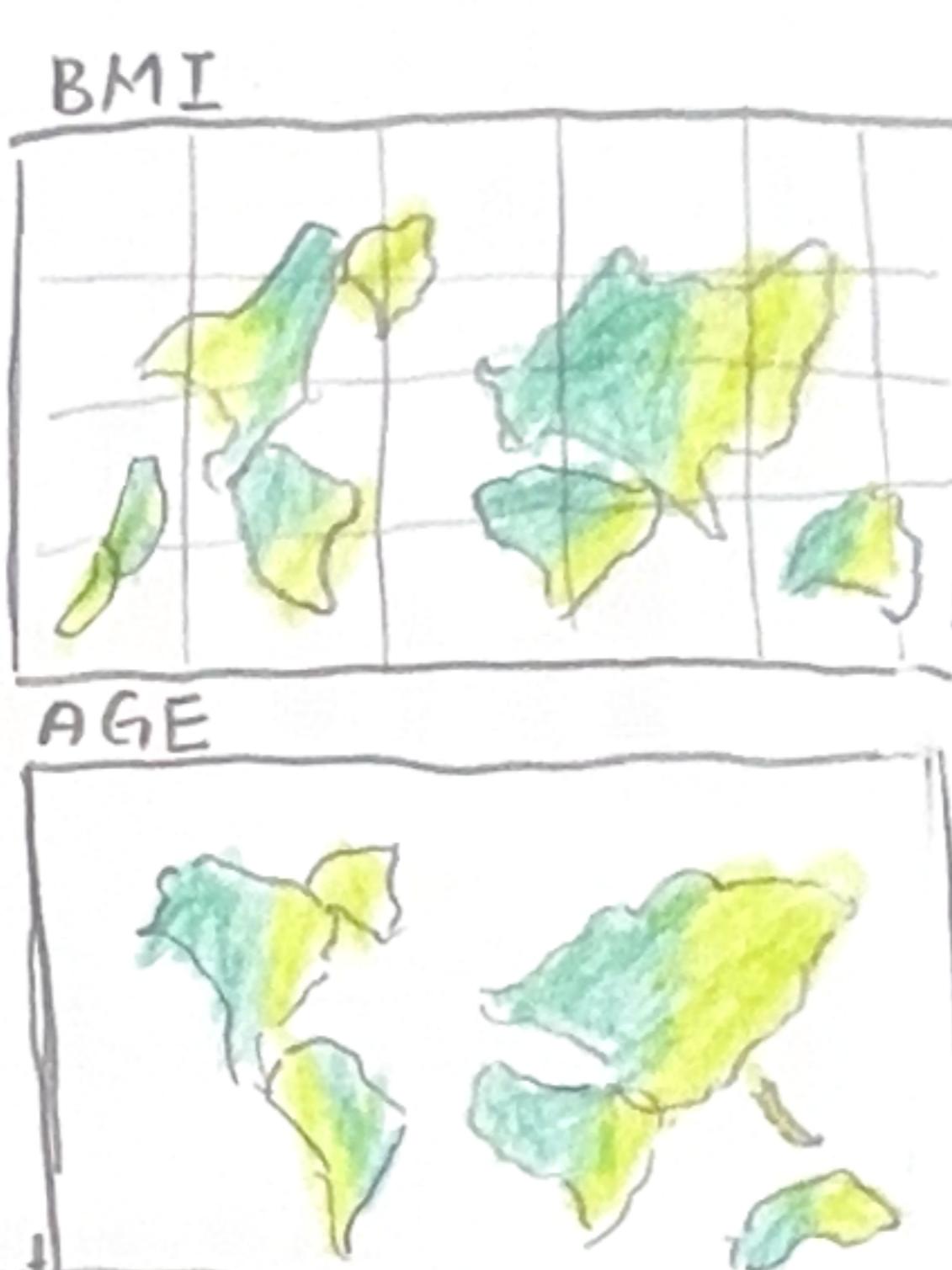
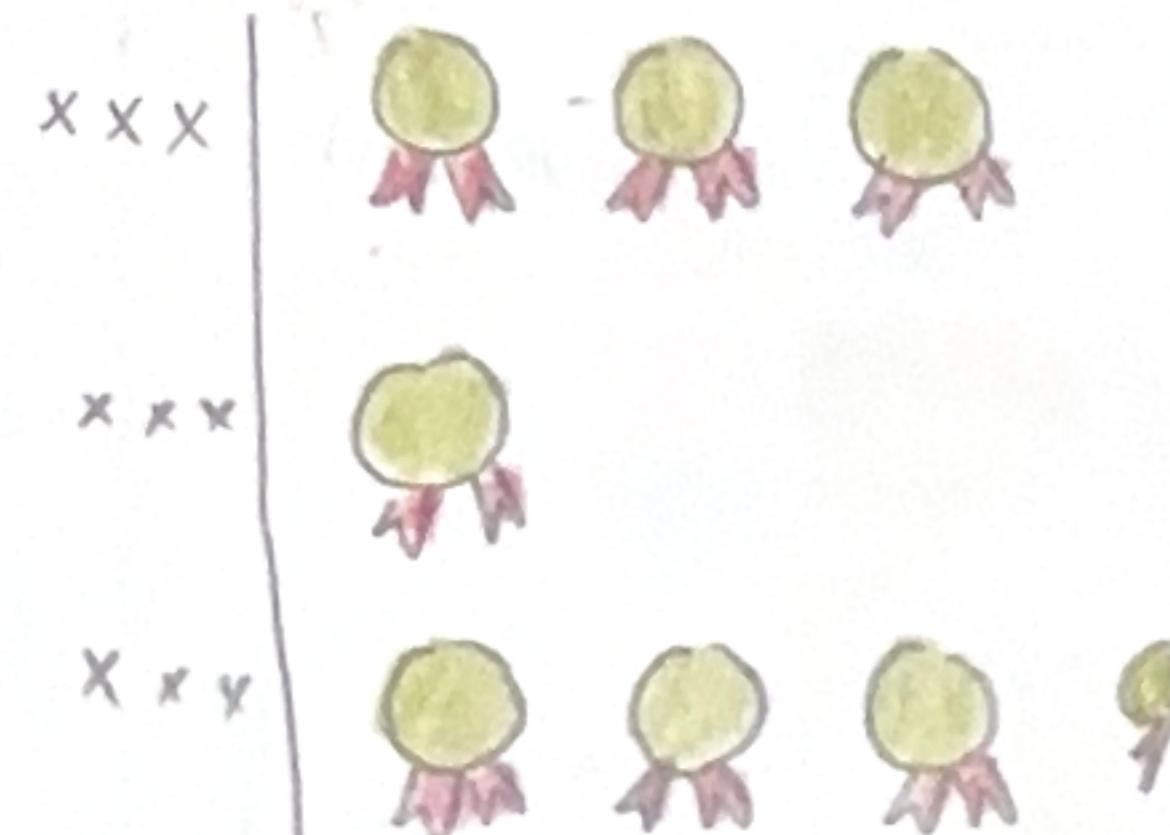


Closing the Gap : Male vs Female Participation



Does BMI & Age really matter?

countries & medals



What country is good at what sport



FOCUS

→ Delivers the message of which country is best at what sport by using the heatmap

allows user to identify = which country dominate each sport
= the strength of countries across the range of sport



→ Hovering over the heatmap shows more detailed information of the heatmap, specifying the total number of medals achieved

→ Uses colour hue to see the sport that each country is good at by number of medals

Title : Scrolling Poster 1

Author : Lim Qiao En

Date : 04 / 10 / 2025

Sheet : 2

Task : Visualization 2 - FITB179

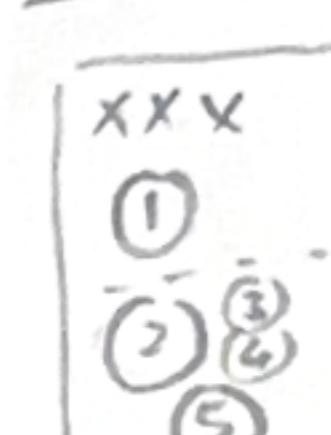
OPERATION

filters

① dropdown menu for barchart



tooltips



① number of participants, sex, year, season

② no. of medals, country

③ mean BMI, country

④ mean AGE, country

⑤ country, sport, total medals

Annotations

① the gap of male vs female participants

③, ④ highest & lowest BMI / AGE (mean)

DISCUSSION

advantages

① Quick visual insights for viewers since it provides instant visual cues about where most medals are won

② Interactive because of tooltips and filters

Disadvantages :

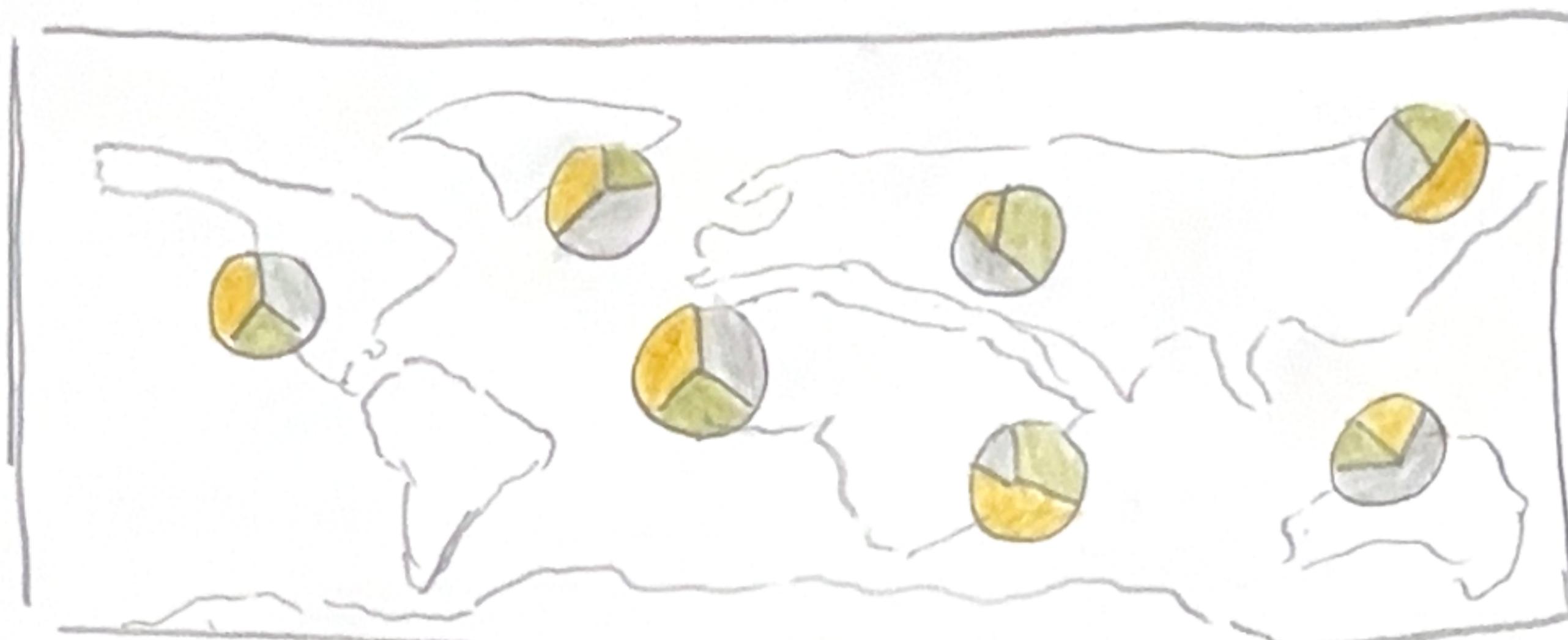
① Risk of color overlap since having too much data can cause the map be difficult to read

② limited context in BMI / Age map, doesn't give clear insights how it correlates to participation

LAYOUT

OLYMPIC THROUGH THE YEARS

How the games & athletes evolved through years:



CITIES AFFECTS MEDALS?

City that hosted most medals?



medals?

Title = Scrolling Poster 2

Author : Lim Qiao En

Date : 04/10/2025

Sheet : 3

Task = Visualization 2 - FIT3179

OPERATION

Filters

checkbox filter

for choosing

seasons for

word cloud

 Winter
 Summer
 All

Tooltips

(1) country, no. of gold, no. of silver, no. of bronze,

(2) Number of times hosted, season

(3) No. of medal, country

(4) Country, no. of medals

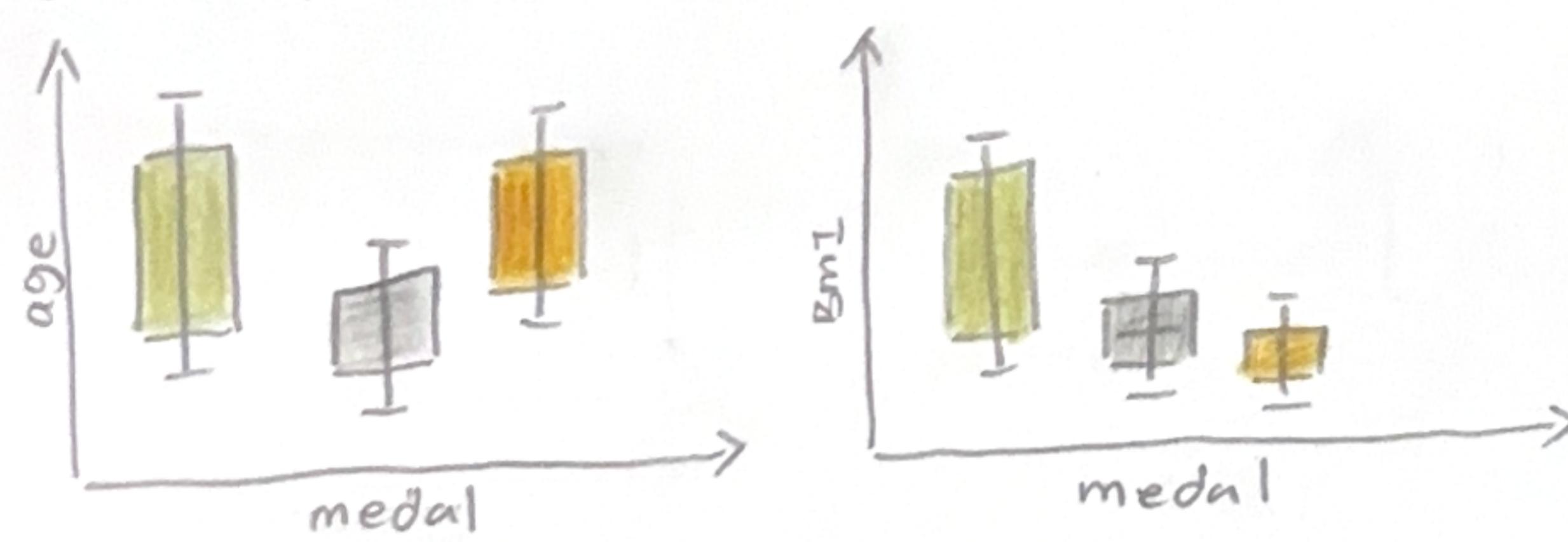
(5) age, medal

(6) BMI, medal

Annotation

(3) label country with high medium & lowest medal count

DOES AGE / BMI AFFECT MEDAL ACHIEVEMENT



FOCUS

→ The map



whole layout shows which country has gotten most medal and which kind of medal they got most

Allows users to =
identify which country is best at most sport

* tooltips appear when users hover on to the pie charts on the map

→ The pie chart's size will depend on the number of the total medals each country have.

DISCUSSION

Advantages

(1) Users can easily understand the graph depending on the colour: gold colour for gold medals.

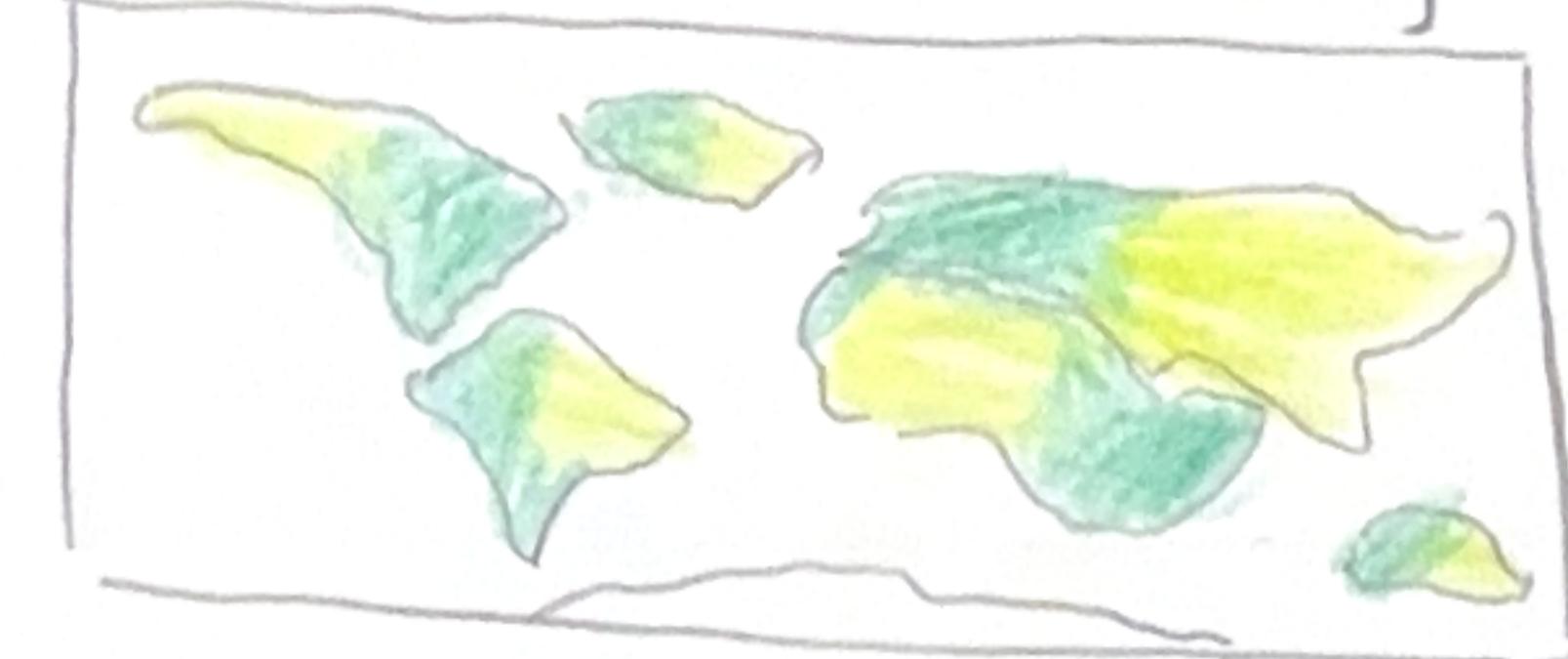
Disadvantages:

(1) Lacks interactivity since only one filter is used on the most unimportant graph.
(2) lacks explanation for map.

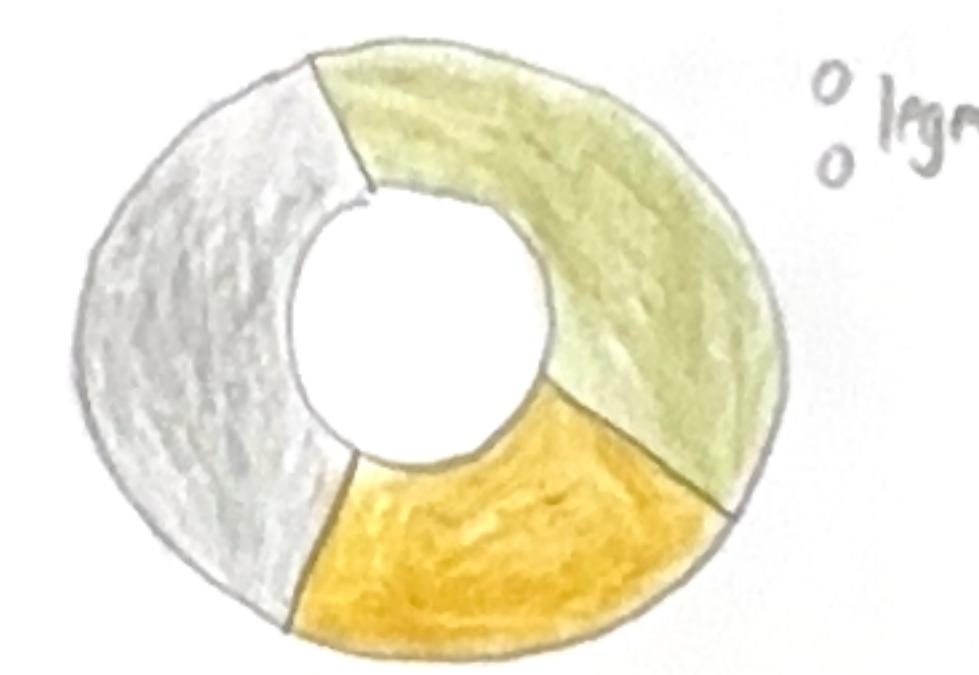
LAYOUT

OLYMPICS THROUGHOUT THE YEARS = GAMES & ATHLETES EVO

Olympic medals for each country



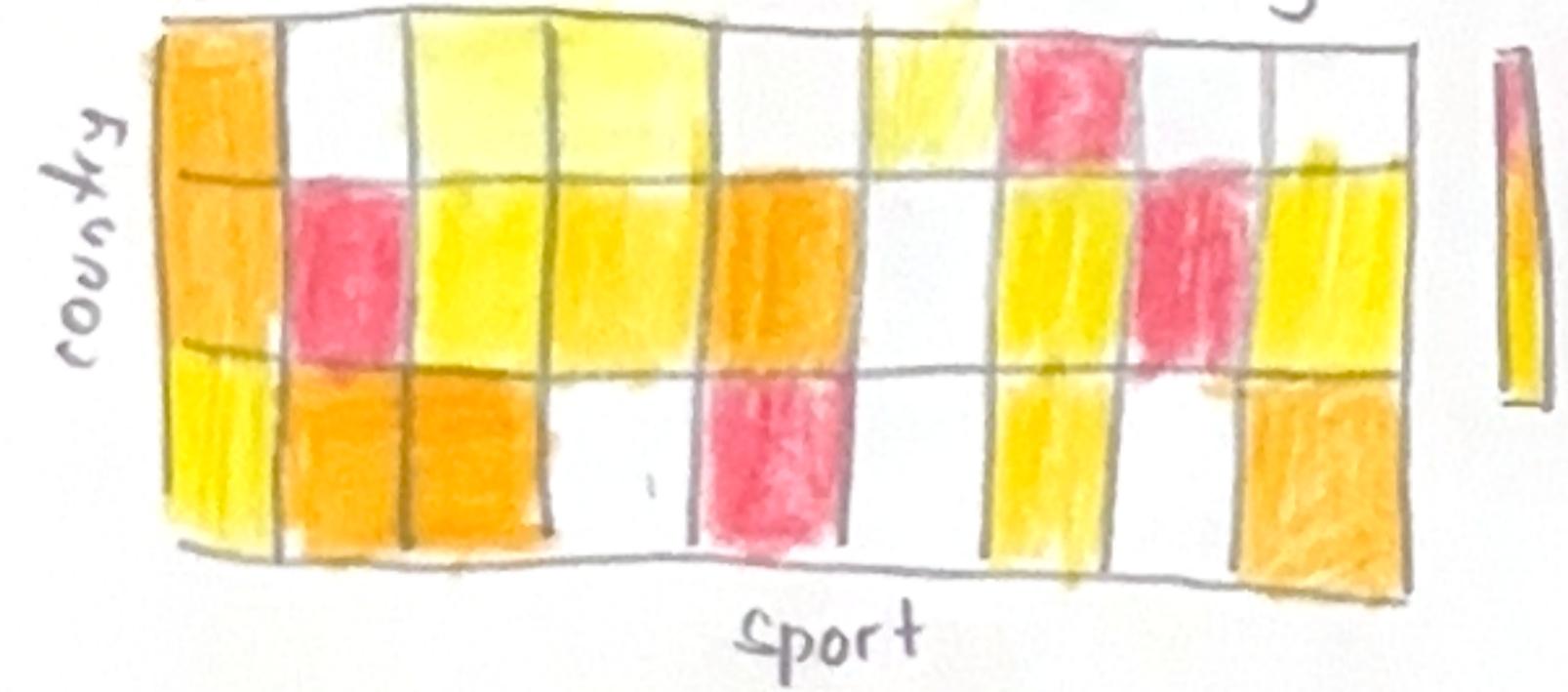
medal info for each country



Participation - Summer + Winter



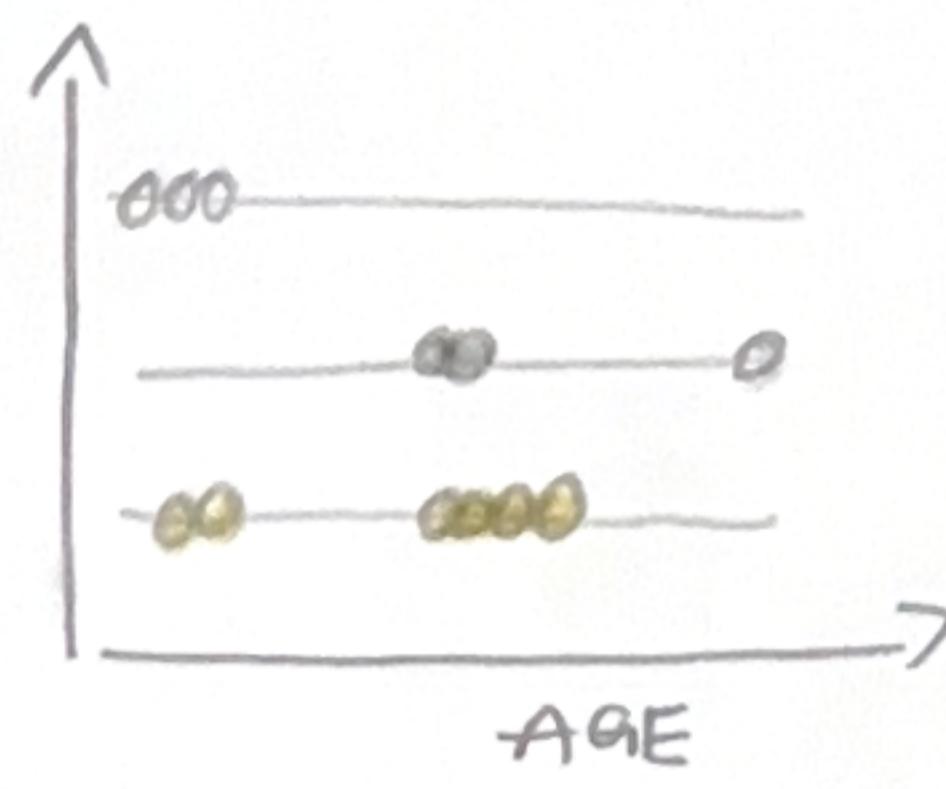
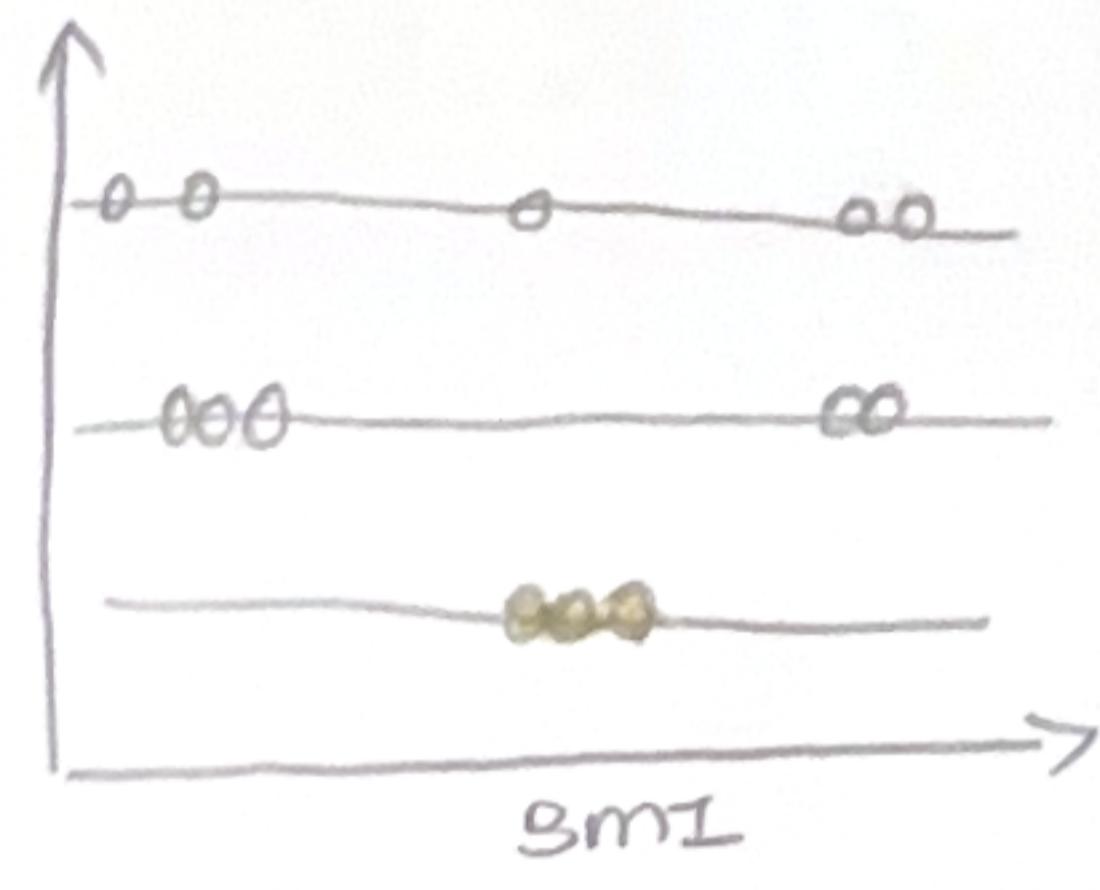
Total medal by sport vs country



% sex

Filter
Filter ▾

Does Age & BMI Affect medal Achievement?



Title = Scrolling Poster 3

Author: Lim Qiao En

Date = 04 / 10 / 2025

Sheet = 4

Task = Visualization 2 - FIT3179

OPERATION

filters

- ① Dropdown box for donut chart
- ② and bar chart
- ① is for country
- ② is for seasons

Tooltips



- ① country, total medal,
- ② Total bronze, silver, gold, country
- ③ seasons, country, total participation, gender
- ④ Total medals, sport, country
- ⑤⑥ medal type, BMI, name, country
- Annotations
- ⑤⑥ one of the clusters
- ⑦ total entries
- ⑧ most & least medal

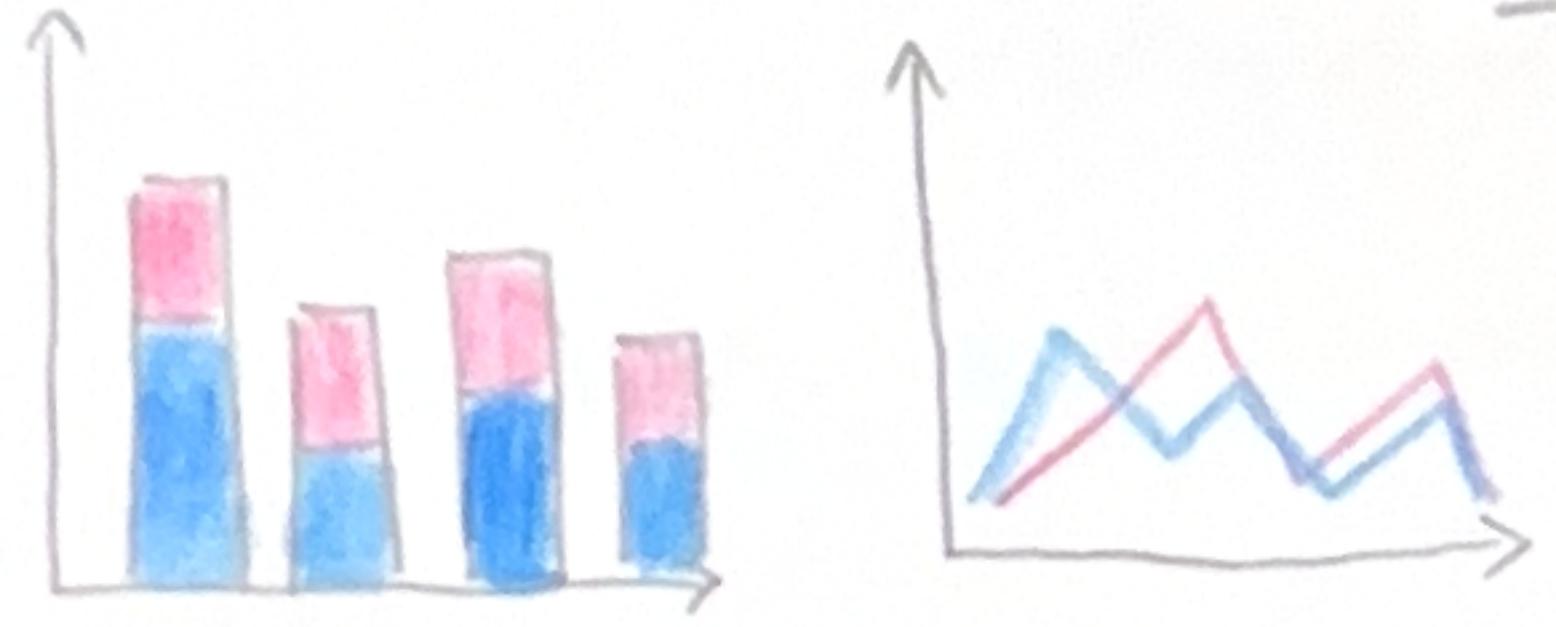
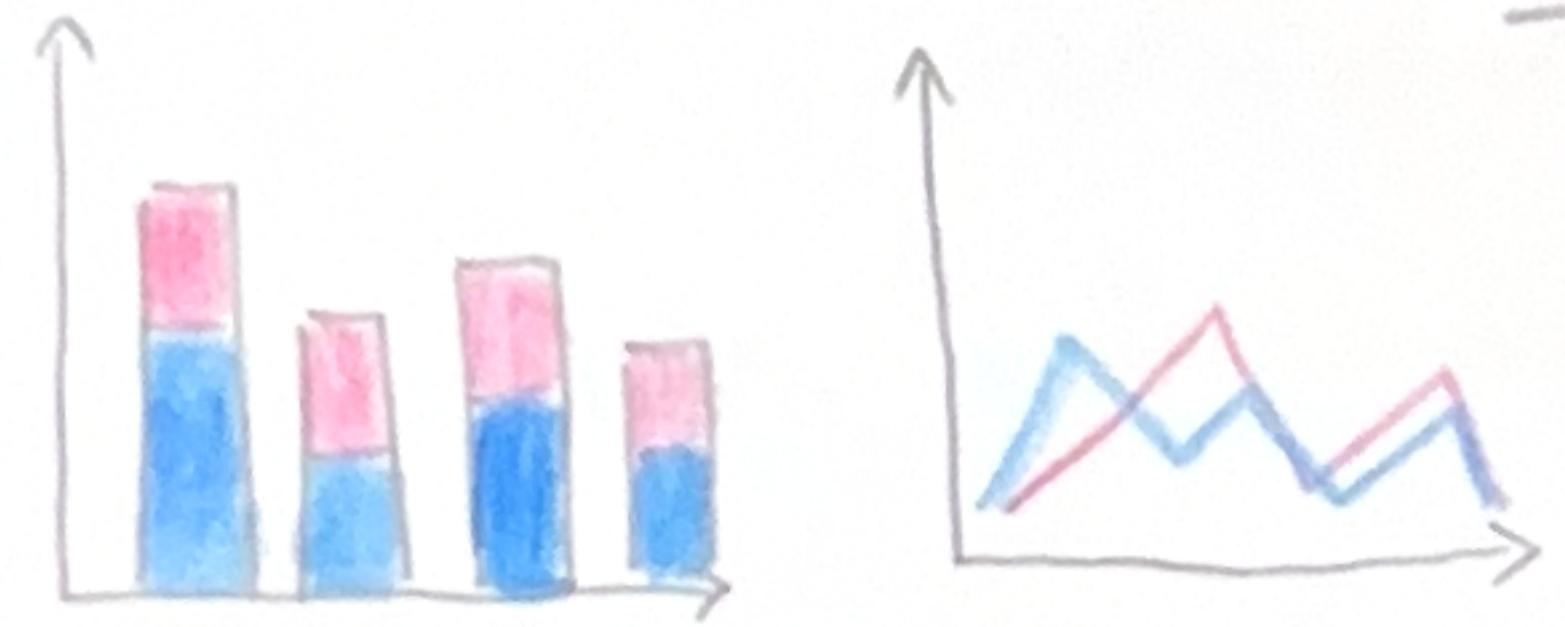
FOCUS



→ Users can immediately see the comparison between the gender & comparison between seasons

→ see which year the participation slowly rises and the sudden drop of entries which year

→ see the rise of female participation in the olympics



DISCUSSION

advantages

- ① Graphs are simple makes it easier to understand
- ② very interactive

Disadvantages

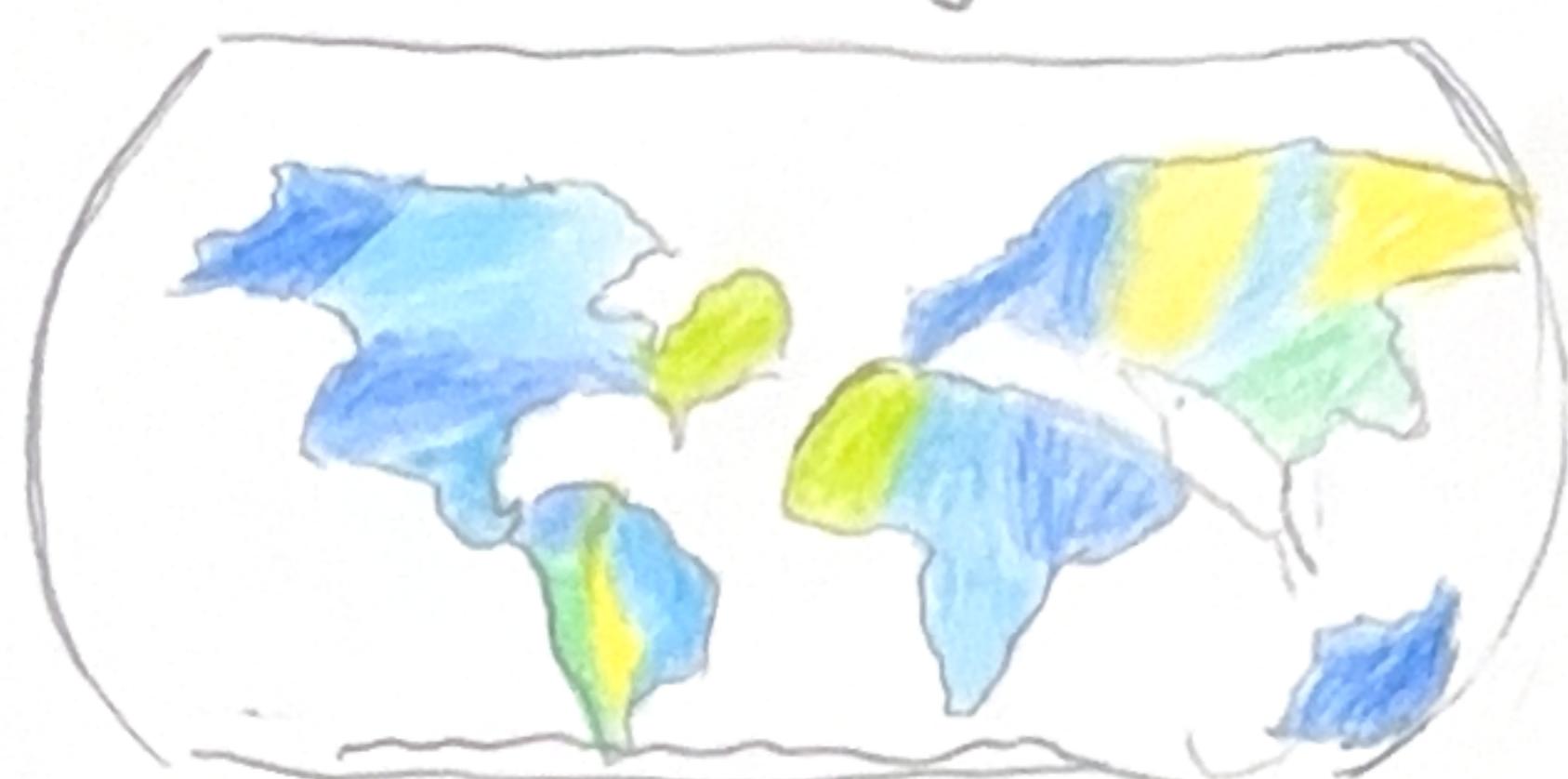
- ① Too much data in a graph can be very overwhelming for user's

LAYOUT

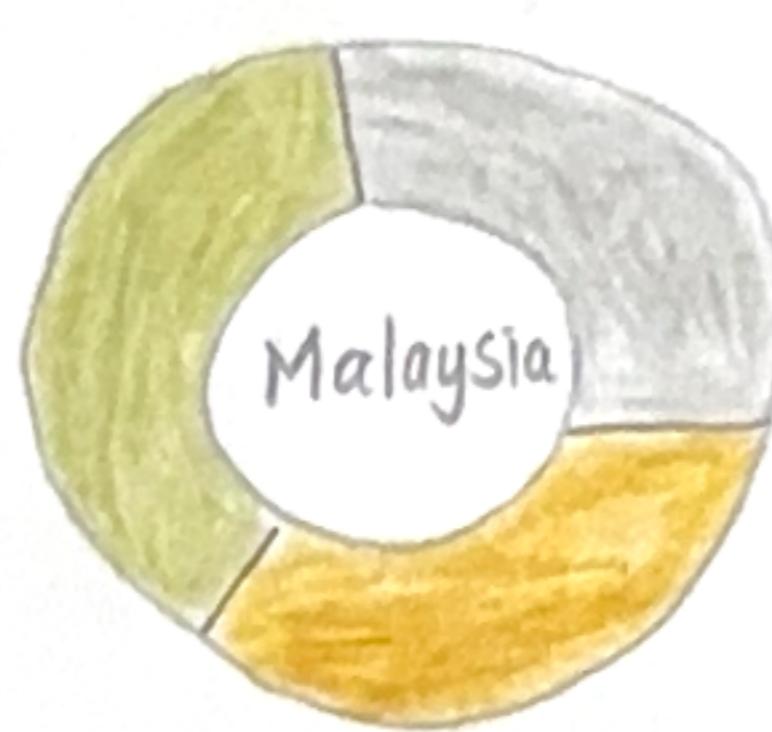
OLYMPIC INSIGHTS - Games & Athletes throughout the decades

The Medal Race : Who's got Gold

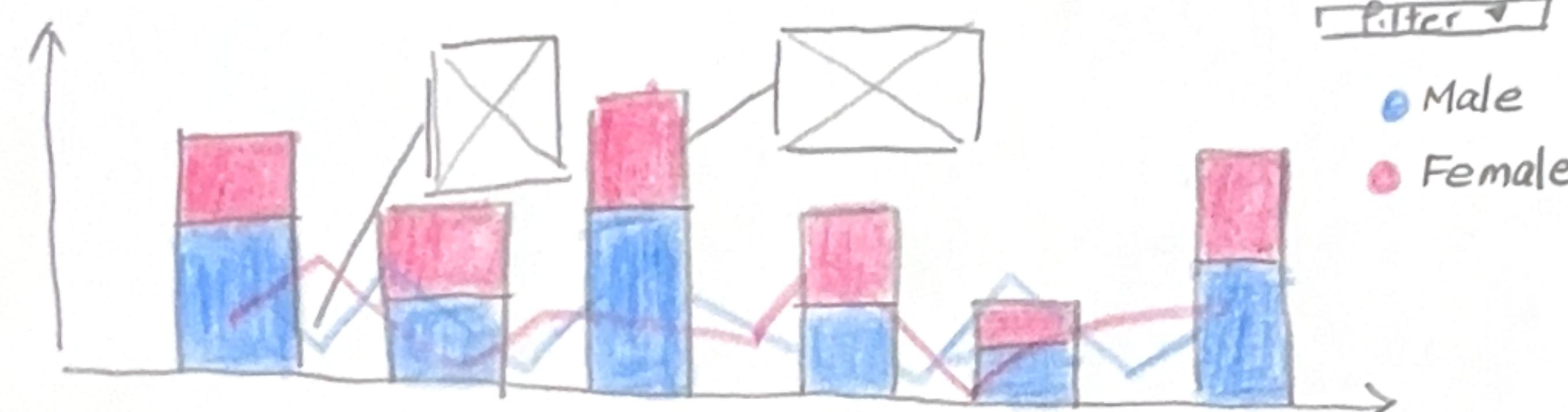
Total medals for each country



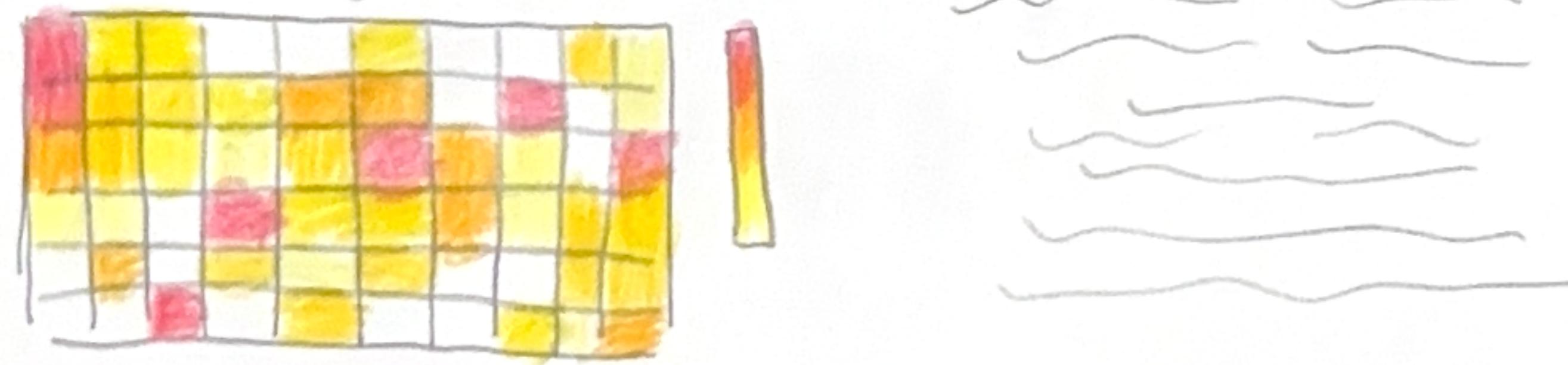
Medal info per country



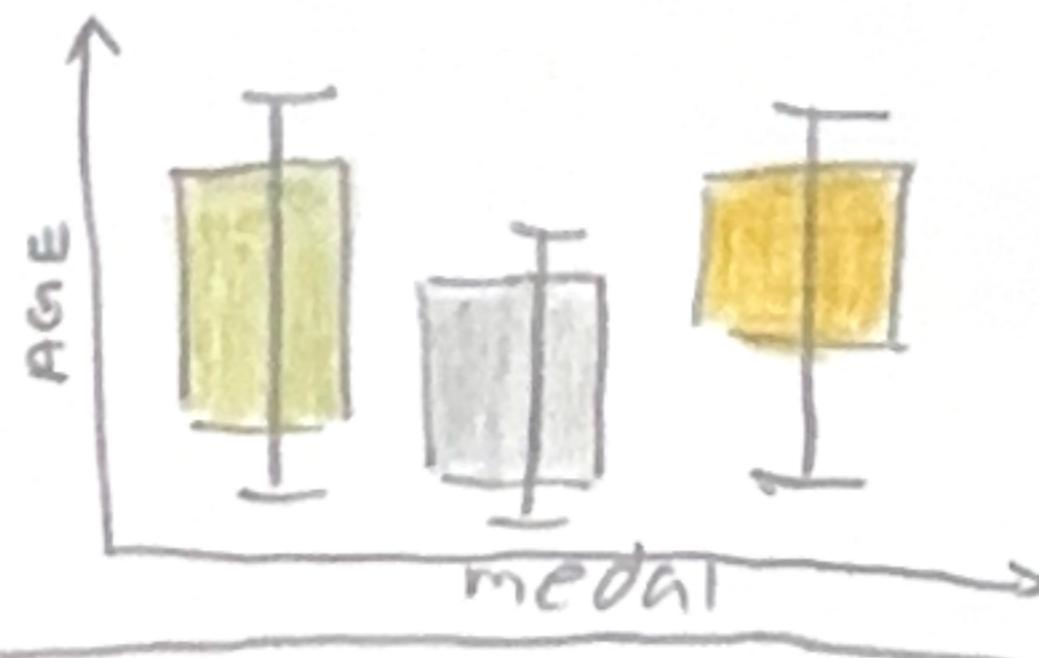
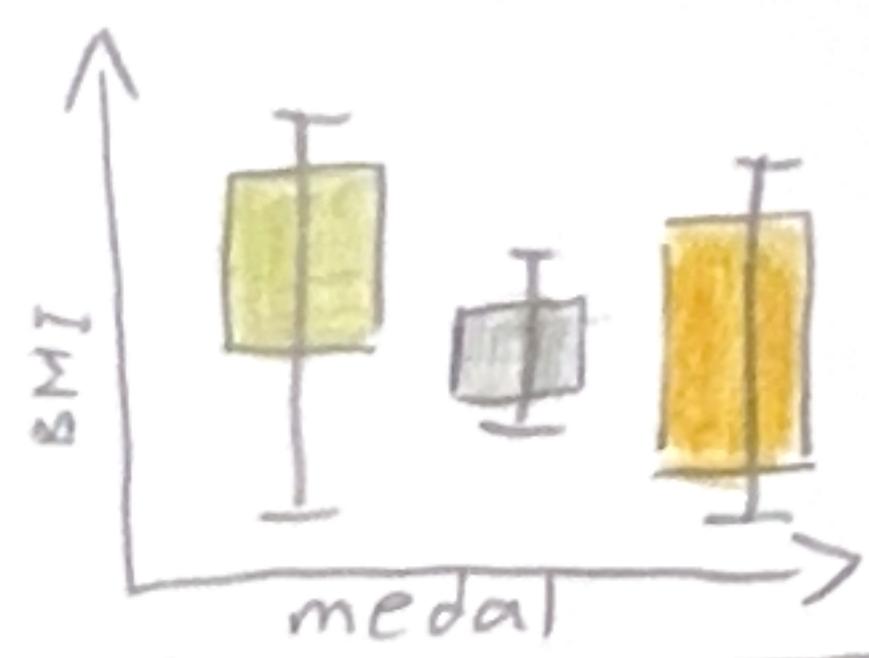
Participation : Summer vs Winter | male vs female



Total medal by Sport vs country



DOES AGE OR BMI Really Matter?



FOCUS

① Storytelling focusing on what country has been at the top for years and also tells how gender participation evolved through years and finding out what affects medal achievement

→ First graph focuses on which country owns the most medal in Olympics → Detailed information from the PIE CHART for each country

→ see the rise & fall of participation and compare how women participation has grown thru years

→ More detailed information of what country excels at what sport

→ See if athlete own attribute matter

Title : Final layout for Olympic Insights

Author = Lim Qiao En

Date = 04 / 10 / 2025

Sheet = 5

Task = Visualization 2 - FIT3179

OPERATIONS

Filter

1] Filters for Donut Chart for choosing countries to show how many medals are achieved

2] Filter to show the seasons of when the participation occurred

Annotations

- ① most medals vs least medals
- ② total entries on all the bars on chart
- ③ most medals top 2

Tooltips

- (A) country, total medal
- (B) total medal for each type
- (C) sex, seasons, country, total participation, year
- (D) total medal, sport, country
- (E) BMI, medal type, name
- (F) AGE, medal, name

DETAIL

dependencies

↳ R for data cleaning
↳ Vega-lite online for visuals
↳ VSC for generating code
cost of time

1 day → data cleaning
2 days → doing visuals
1 day → final format

specific requirement

↳ ensure white space between graph

↳ ensure details of graphs & explanation
↳ there is metadata
↳ ensure metadata is added