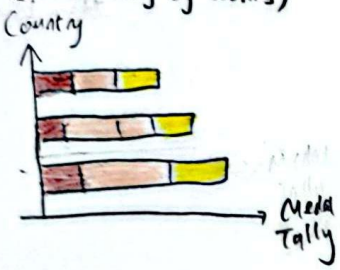
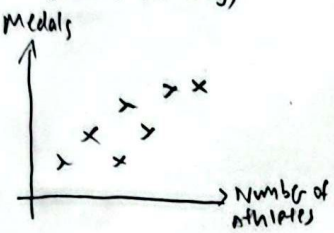
Ideas

Sheet 1 Name: Tyler Tan

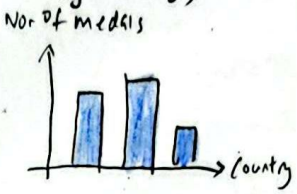
1) Stacked bar chart (Medal Tally by Country)



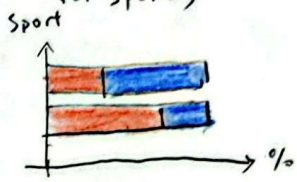
2) Scatter plot (Medal Efficiency)



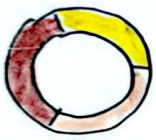
3) Bar Chart (Number of medals by country)



4) 100% Stacked Bar Chart (Gender representation for sports)

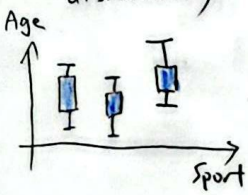


5) Donut chart (Medal Tally by Country)

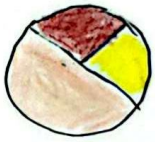


6) Chloropeth Map (Medal wins for each country)

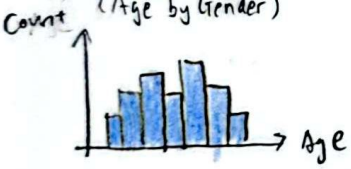
7) Boxplot (Athlete age distribution)



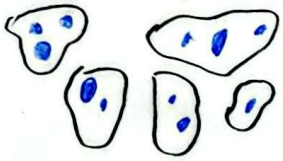
8) Pie chart (Medal Tally by country)



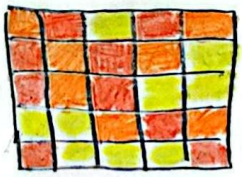
9) Histogram (Age by Gender)



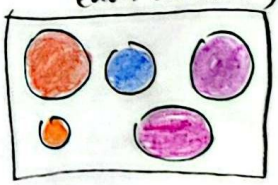
10) Dot Map (Medal Tally for each country)



11) Heatmap (County vs Sport participation)



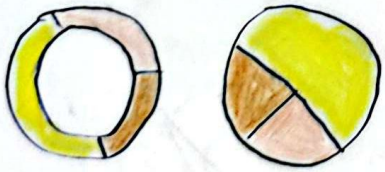
12) Bubble Chart (Gender Ratio for each continent)



Filter

Remove duplicates:

Donut chart and pie chart are very similar and serve the same purpose. Can consider using only one.



Summarise & Question

- Does it provide insight?
- Is it engaging and relatable?

Categorise

Category A: Medal distribution / tally

- Stacked bar chart (1)
- Bar chart (3)
- Donut chart (5)
- chloropeth map (6)
- pie chart (8)
- Dot map (10)

Category B: Athlete Information

- 100% Stacked bar chart (4)
- Boxplot (7)
- Histogram (9)
- Bubble chart (12)

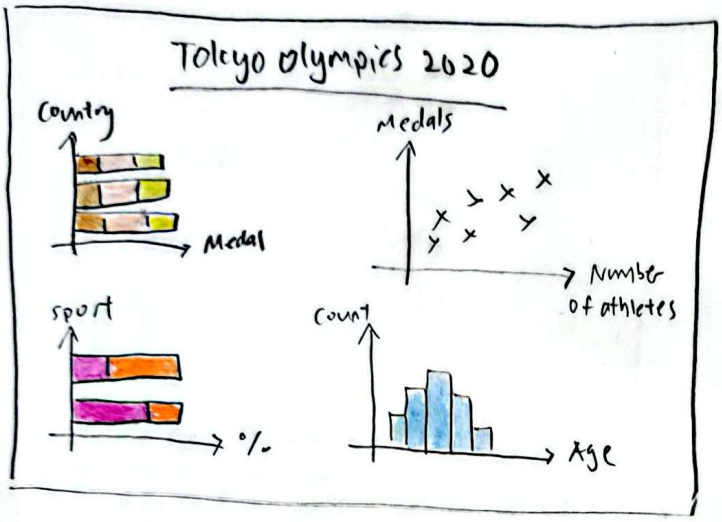
Category C: Sports participation

- Heatmap (11)

Big Picture / Layout

Sheet 2 Name: Tyler Tan

Dashboard Style



Components / Operations

- Click on a filter (for example gold medal) and it will only display the count for the gold medals in the stacked bar chart

- Hover → tooltip with country, medal tally etc

Parti / Focus

- The focus is to get the user to gain some insights from each of the visualisations from the dashboard, which includes the two lenses:
  - medal distribution
  - Athlete information

- Each of the visualisations are deemed as equally important

Pros / Cons

Pros:

- Uses familiar idioms (bar, scatter, histogram) for easy audience understanding

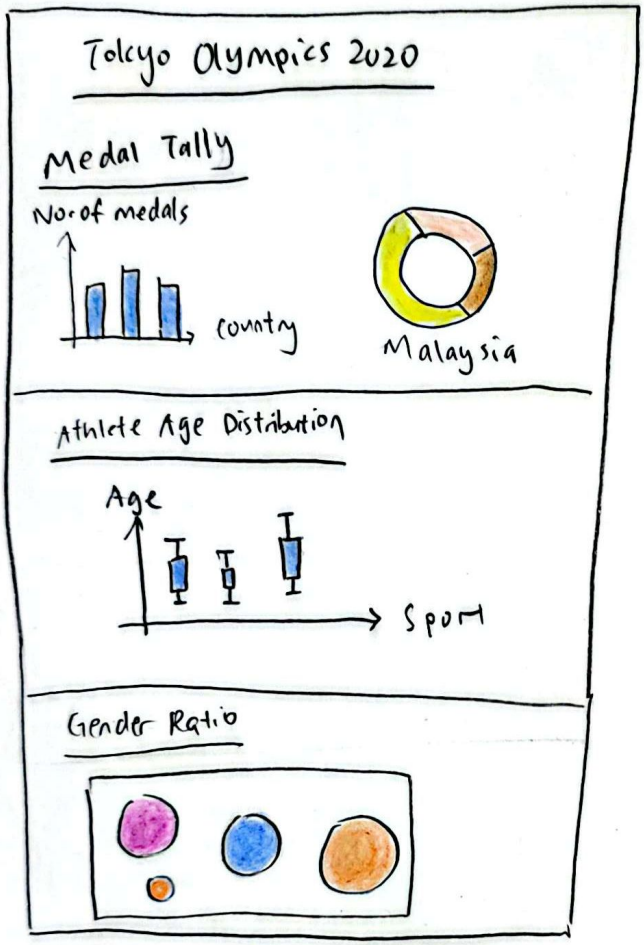
Cons:

- No clear separation between sections that focus on different research angles

Sheet 3 Name: Tyler Tan

Big Picture / Layout

Tall Poster / Infographic



Parti / Focus

- The focus is to let users understand what happened at the Tokyo 2020 Olympics.
- The audience's focus is on reading from top to bottom, which insights highlighted along the way.

Components / Operations

- Limited interactivity, because an infographic is typically static.
- Simple hover annotations.
- Each section can include captions and icons to guide readers

Pros:

- Engaging and fun for the general audience
- Strong narrative flow, easy to follow without prior knowledge
- Poster style makes it shareable

Cons:

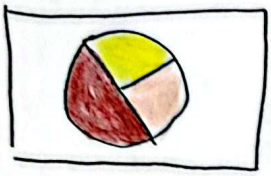
- Less interactive than dashboard
- Long vertical scroll may feel heavy if not well-designed

Big Picture / Layout

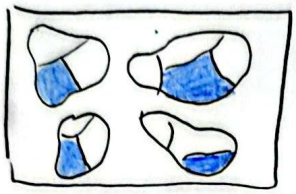
Sheet 4 Name: Tyler Tan

Slideshow Style

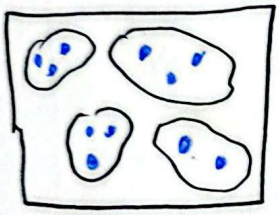
Slide 1 :



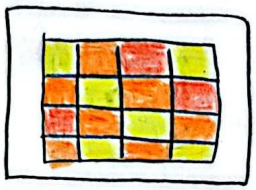
Slide 2 :



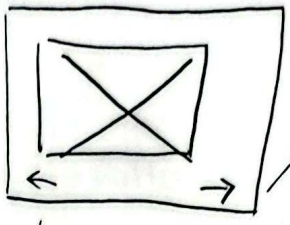
Slide 3 :



Slide 4 :



Components / Operations



"Next" button to advance to the next slide. Or scrolling is also an option.

Navigation arrows at the bottom to jump between slides.

- Hover on charts
  → + oultips with details

Parti / Focus

Parti Name: 'Step by Step'

Essence: A slideshow story that unfolds gradually.

- Each slide reveals one piece of the story.
- The focus is on a linear narrative, not on all-at-once explanation.

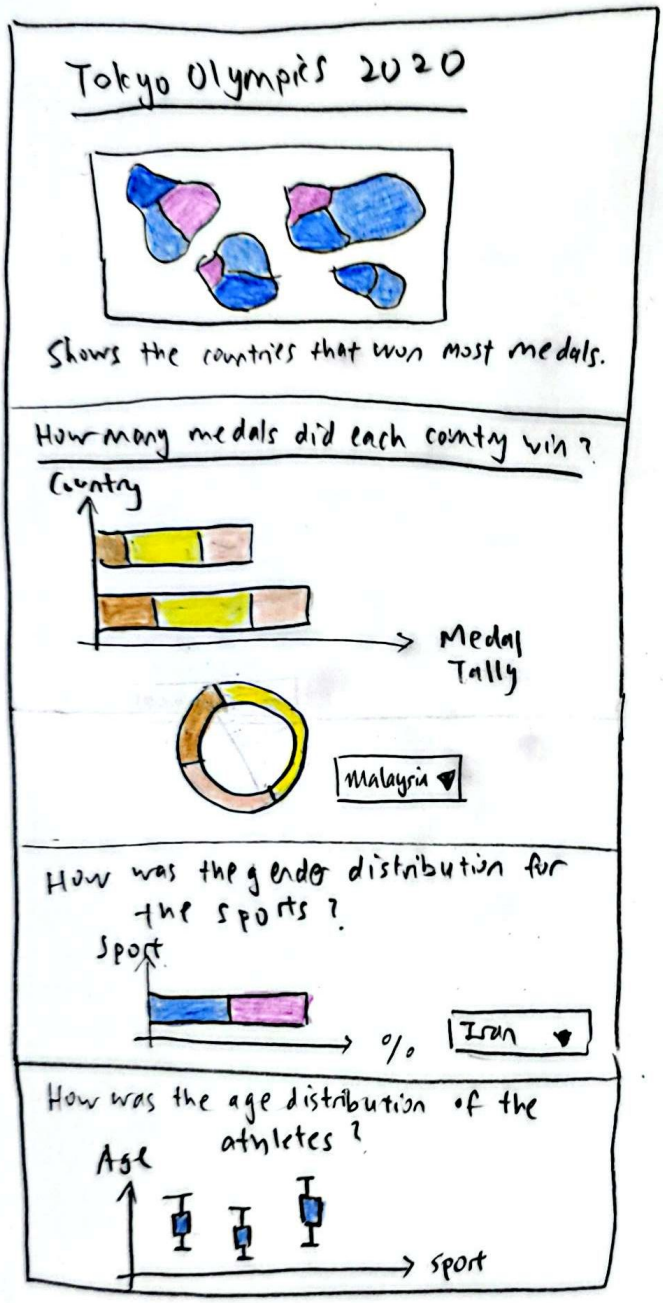
Pros:

- Linear storytelling is very clear for general audience.
- Builds suspense as each slide adds a new layer.

Cons:

- Limited freedom: users cannot explore freely.

Final Product : Vertical Infographic



Focus

Essence: A linear infographic that narrates the story.

Sheet 5 Name: Tyler Tan

Components / Operations

- Hover on anything
  → Tooltip (County, Medal Count)
- Filter → Display that selected County
- Reset button → Clear selection

Details

Dependencies:

- Vegalite
- R / Python for data cleaning
- Data from the multiple csv that I found

Estimated time and effort:

- Data prep (clean, joins, filter) : 1 hour
- Chart building : 10 hours
- Layout arrangement and annotations : 10 hours
- Total : 21 hours