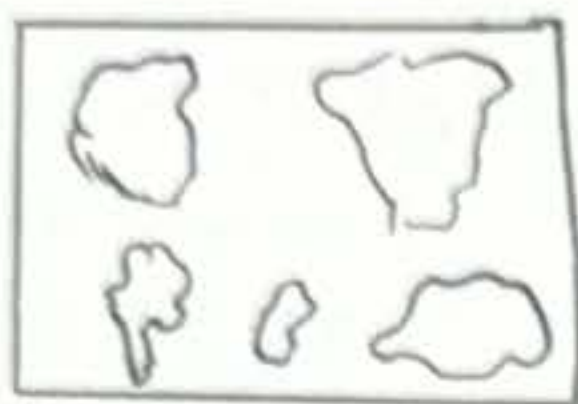
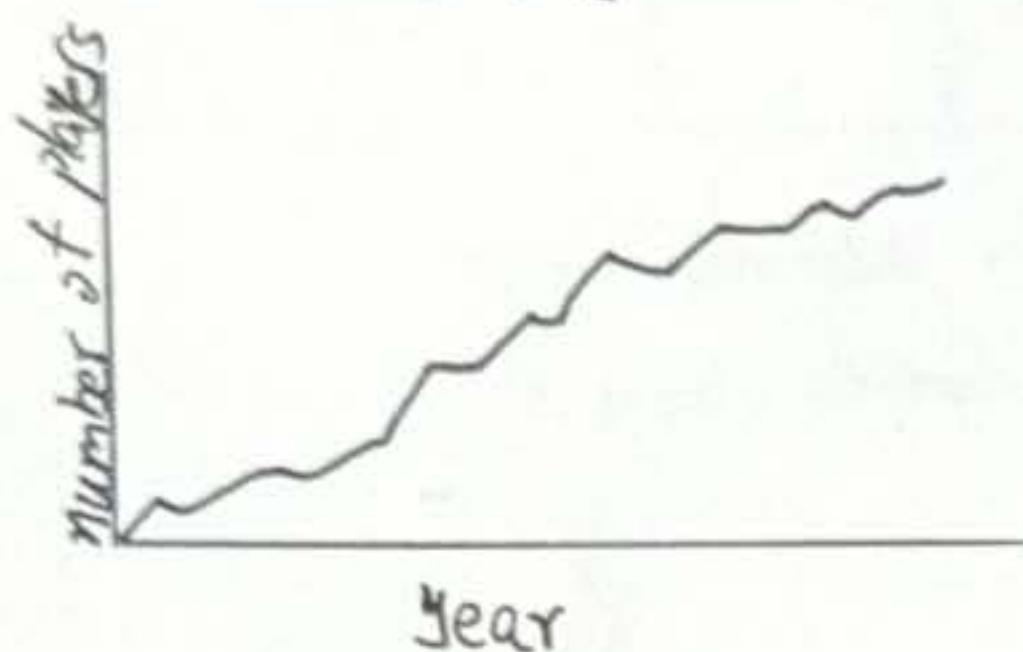


# IDEA

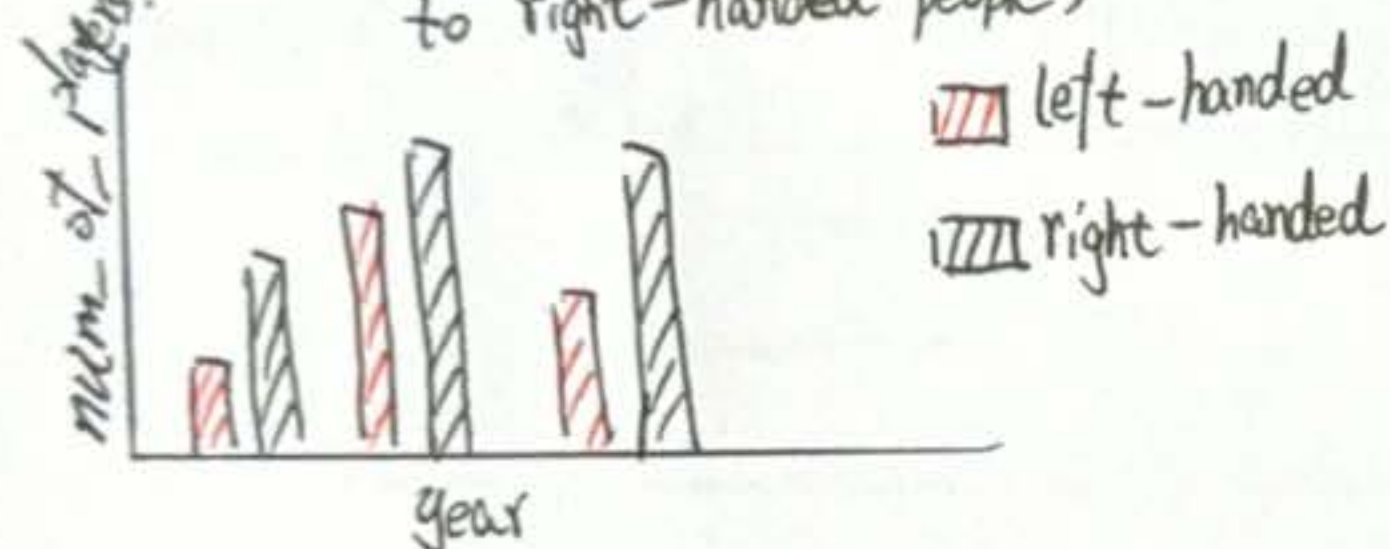
World Map (Display distribution of tennis players)



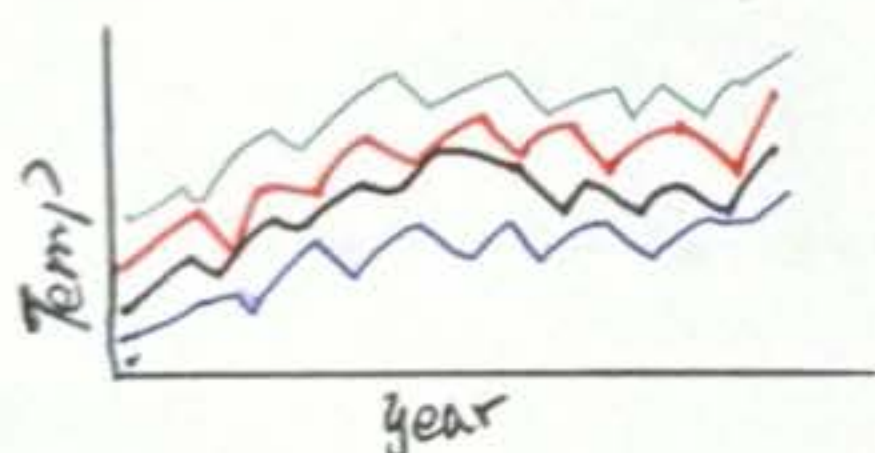
Line chart (Display number of players by year)



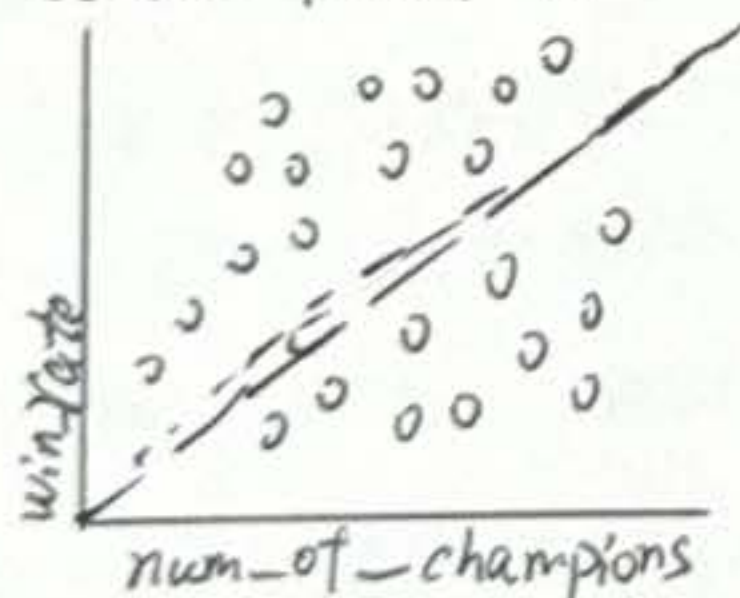
Bar chart (Display ratio of left-handed to right-handed people)



Line chart (Display temperature of each event)



Scatter plot (player win rate vs. number of champions)



Pie chart (Display land for each event)



## Filter

Keep:

- World Map (Display main map visualisation)
- Line chart (Temperature Line chart)
- Bar chart (ratio of left-handed to right-handed people)
- Pie chart (Display court surface for each event)

Remove:

Scatter plot

change:

Line chart (number of players by year) → Bar chart

## Categorize

• Comparison-focused:  
World map, Bar chart, Pie chart

• Trend:  
Line chart

## Combine and Refine

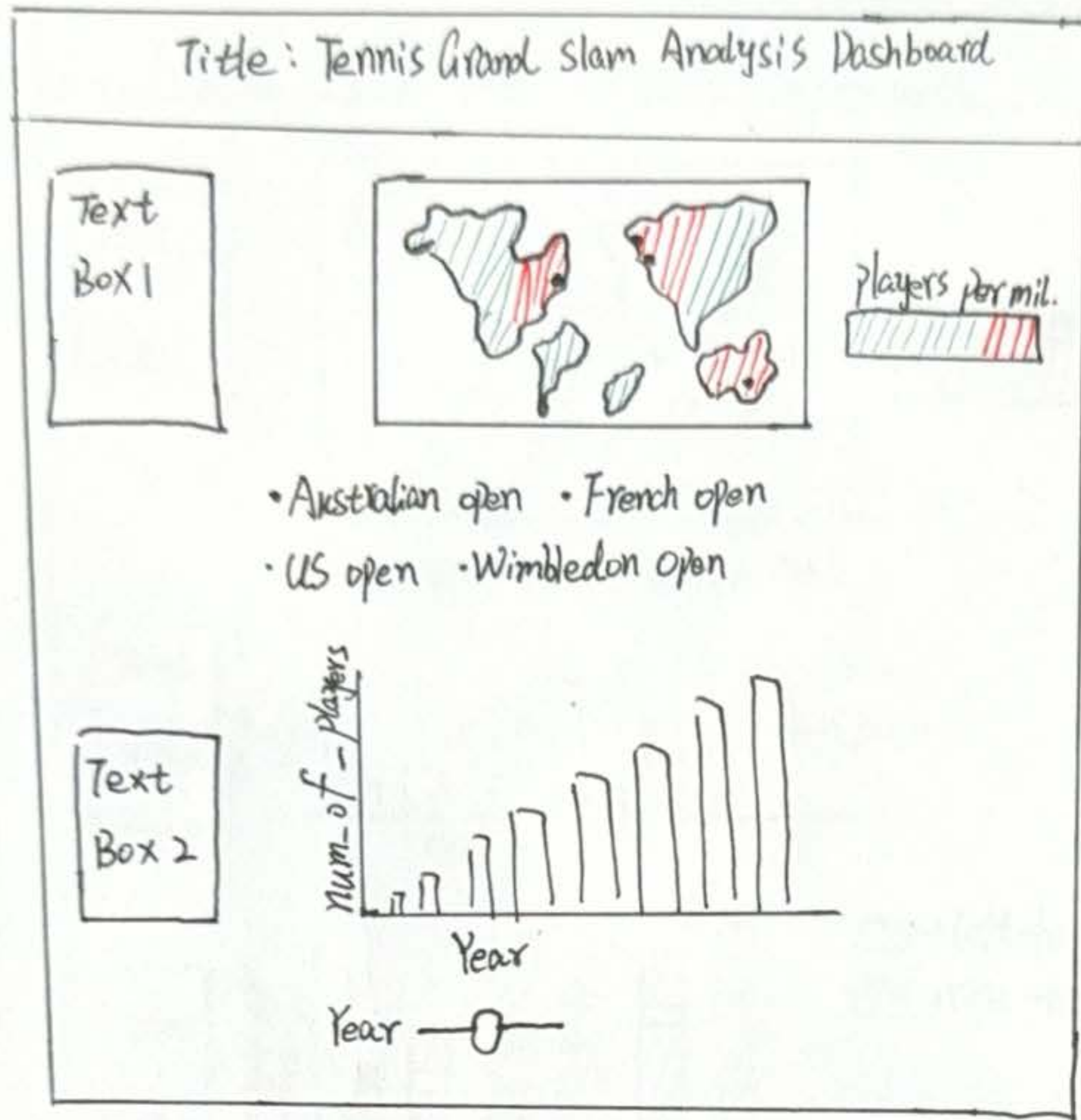
- overview: world map (Display tennis player)
- Bar chart (Display number of players by year)
- Bar chart (Display ratio of left and right handed player)
- Line chart (Display Temperature of each event)
- Pie chart (Display court surface for each event)

## Questions.

- How is tennis distributed globally in terms of player nationalities?
- How do the four Grand Slam tournaments differ in location, surface, and climate?
- Are there any noticeable pattern across gender or handedness?
- Do environment factor influence which players perform best?



# LAYOUT



Title: Dashboard V1.

Author: Yunhe Wang

Date: 03/10/2025

sheet: 2

Task: Assignment 2 FLT3179

## Operations


 Hover map:

Country: \_\_\_\_\_

Total players: \_\_\_\_\_

Players per million: \_\_\_\_\_

Population: \_\_\_\_\_

 Hover point:

eg.

Tournament: \_\_\_\_\_

City: \_\_\_\_\_

Country: \_\_\_\_\_

## Focus

Core Idea:

"where the players are"  
show the global reach of tennis  
and how four tournaments anchor  
the sport geographically.

User spend most time exploring  
the map—hovering and  
comparing continents.

## Discussion

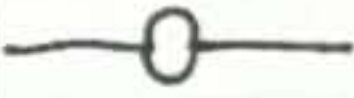
Pros:

- Intuitive, visually appealing overview
- Emphasises tennis as a global sport.

Cons:

- Limited ability to show temporal change.
- Colour scale may hide small-country details.

Year

 Year slider

Text Box 1

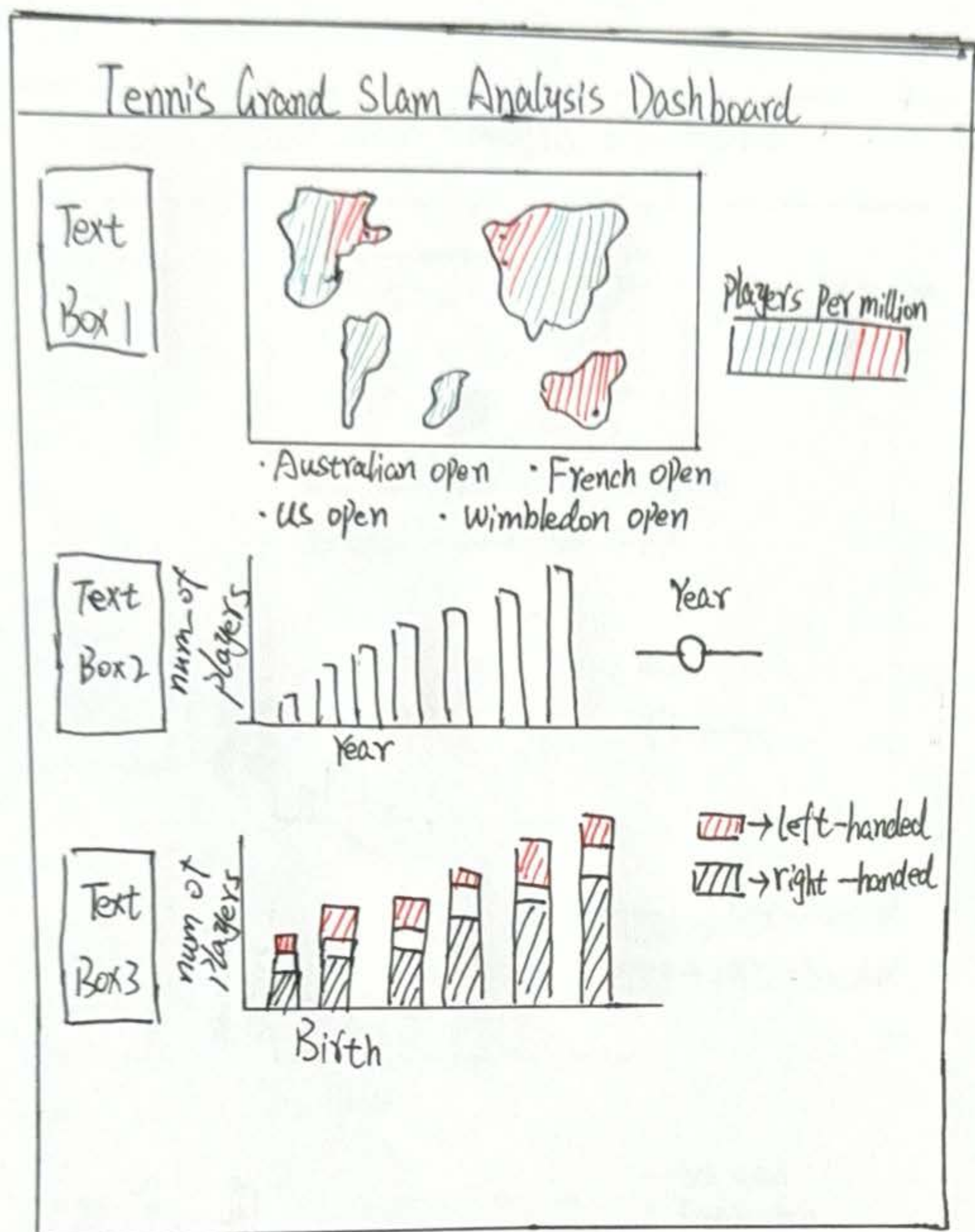
⇒ Introduction of  
the Grand Slam

Text Box 2

→ Introduction of  
number of players  
by year.



# LAYOUT



Title: Dashboard V2.

Author: Yunhe Wang

Date: 03/10/2025

Sheet: 3

Task: Assignment 2 FIT3179

## Operations

→ left-handed player

→ right-handed player

shows → Birth year: \_\_\_\_\_  
Handedness: \_\_\_\_\_  
Num of players: \_\_\_\_\_

Text Box 3 → Analysis left and right handed players.

## Focus

Core Idea: Global Growth and player Diversity

Reveal how tennis participation evolves worldwide while exploring player characteristics like handedness.

The user's attention focus on the map for geographic insights and the two bar charts for quantitative trends.

## Discussions:

### Pros:

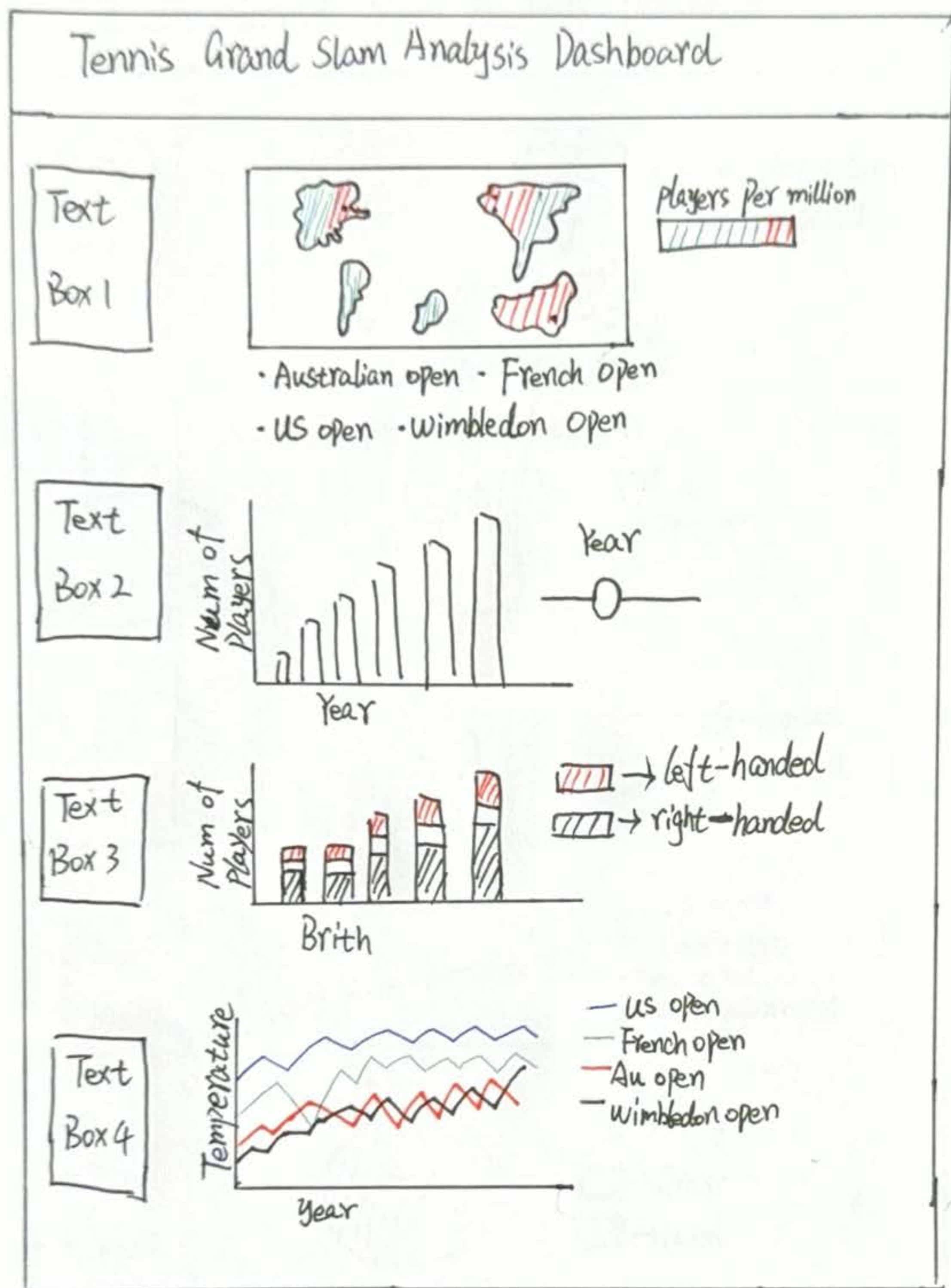
- Combines geographic and statistical Perspectives for balanced story.
- Simple and accessible for a broad audience.
- The handedness chart adds a unique, engaging dimension.

### Cons:

- Limited depth on performance
- Requires accurate player by year data.



# LAYOUT



Title: Dashboard V4.

Author: Yunhe Wang

Date: 03/10/2025

Sheet: 4

Task: Assignment 2 FIT3179

Operations

- → US open
- → French open
- → Australian open
- → Wimbledon open



Shows:

Year: \_\_\_\_\_

Tournament: \_\_\_\_\_

Temperature: \_\_\_\_\_

Text Box 4

↓  
Analysis climate for four Tournament

## Focus

Core Idea: Connecting Players and Climate  
Reveal how global participation and player characteristics relate to the Temp of each Grand Slam.

users focus on climate patterns over time

## Discussions:

Pros:

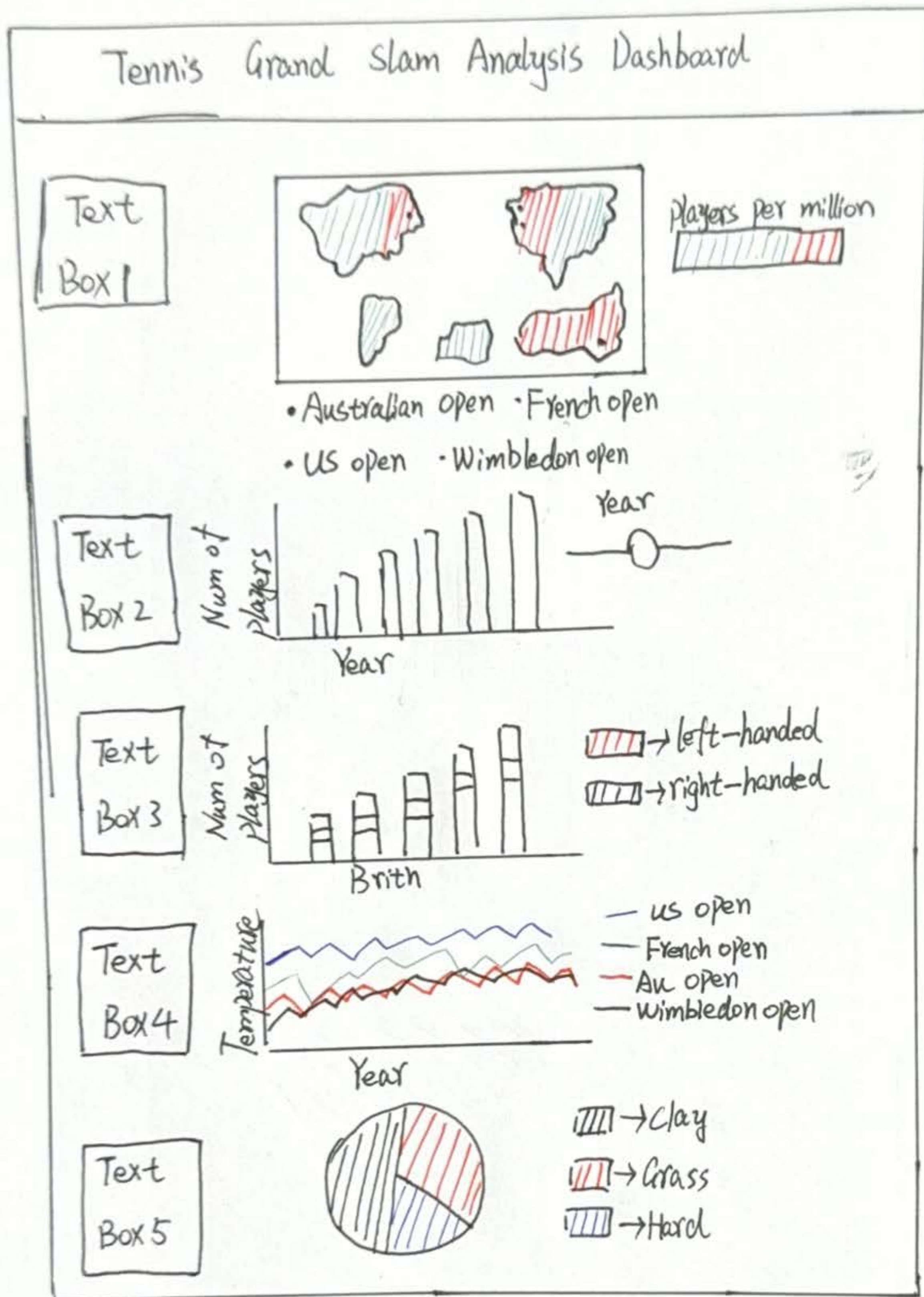
- Integrates multiple data dimensions
- Visually rich and informative
- Temp chart add scientific context often missing from sports visualisations.

Cons:

- Temperature data very complex, need data clean.



# LAYOUT



Title: Final Dashboard

Author: Yunhe Wang

Date: 03/10/2025

Sheet: 5

Task: Assignment 2 F173179

operations

▨ → clay

▨ → Grass

▨ → Hard



Total Titles: —

Surface: —

Text Box 5

Analysis Court surface

## Focus

The final dashboard refines the previous by adding a pie chart.

Users can now see how who plays, where and when they play, and on what kind of surface all interact to shape performance and tournament identity.

## Detail:

- Tool: Vega lite with embedded JSON.
- Deployment: GitHub
- Editor: VS code
- Data Sources:
  1. player Data
  2. Temperature Data
- Normalise players values.