Ideas

Heat map of tennis venues.

AO Attendance / Years

# of grand slams.
2000   2020 2025

grand slam!
Year
━ - men
━ - women

Prize money / Players age
Top Ranking

Hard — clay
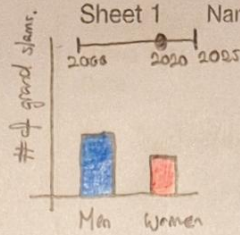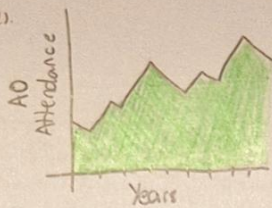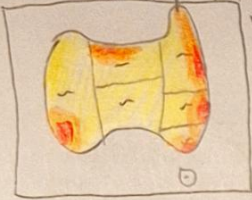— Synthetic
— grass.

Hard   Grass
Clay — synthetic

AO surface timeline.
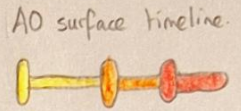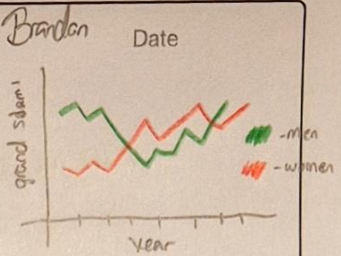
Filter

Tree Map and Pie chart

* Shows similar data so only one is r necessary.
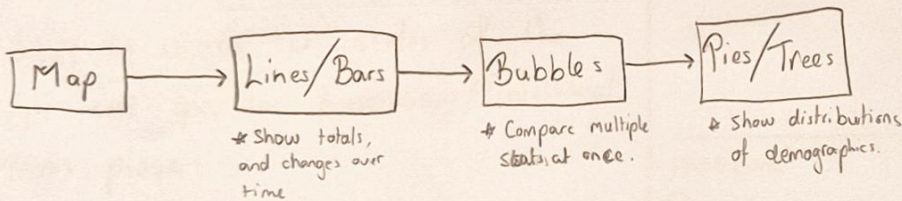* Pie may be favourable due as we are comparing simple proportions.

Multi-line chart

* May be a bit misleading.
* Data may be understood better as a stacked or connected bar chart.

Categorise

General Chart Flow

Map → Lines/Bars → Bubbles → Pies/Trees

* Show totals, and changes over time

* Compare multiple stats at once.

* Show distributions of demographics.

Combine & Refine

Bar Chart

* Bars can be stacked, allow for more than one year to be displayed.
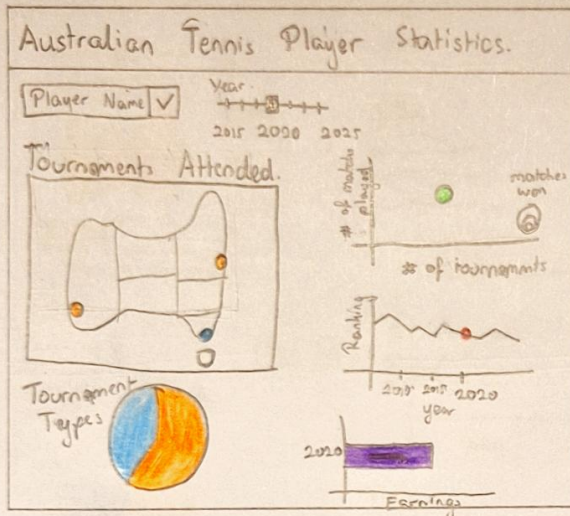* Year slider can be removed if bars are stacked.

Map Chart

* If chart is for venues only, circle markers could be used instead of the heat map.
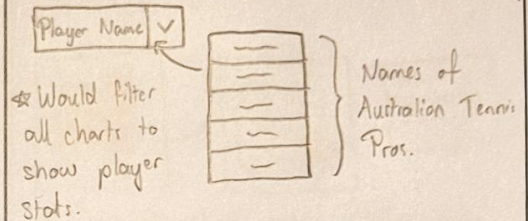* Coloured circles could indicate type of venue or surface type.

Summarise and question

* Are there more complex charts that could fit this domain?

* What other data points could be included?

Big Picture / Layout

Title Australian Player Stats.

Description

Australian Tennis Player Statistics.

Player Name ▽ · Year:
2015 2020 2025

Tournaments Attended.

# of matches played
# of tournaments
matches won
Ranking
2010 2015 2020 year

Tournament Types
2020
Earnings

Components / Operations

Player Name ▽

☆ Would filter all charts to show player stats.

Names of Australian Tennis Pros.

2015 2020 2025

☆ Slider to show players stats during given year within Australian based tournaments.

Parti / Focus

☆ Aims to show the stats of the ten most popular Australian Professional Tennis players.

☆ Map will aim to show where they played during a given year.

Tournament : ―
Date start : ―
Place achieved : ―
Notes : ―
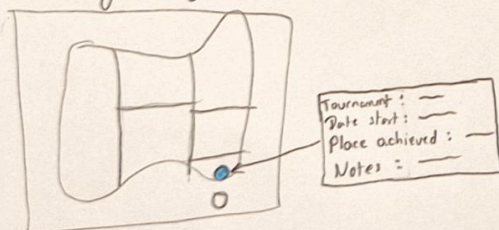
Pro & Cons

Pros

☆ Easy to interpret and interact with.

☆

Cons

☆ Unable to easily compare two players.

☆ May be difficult to filter all charts together in Vega-lite.

Big Picture / Layout

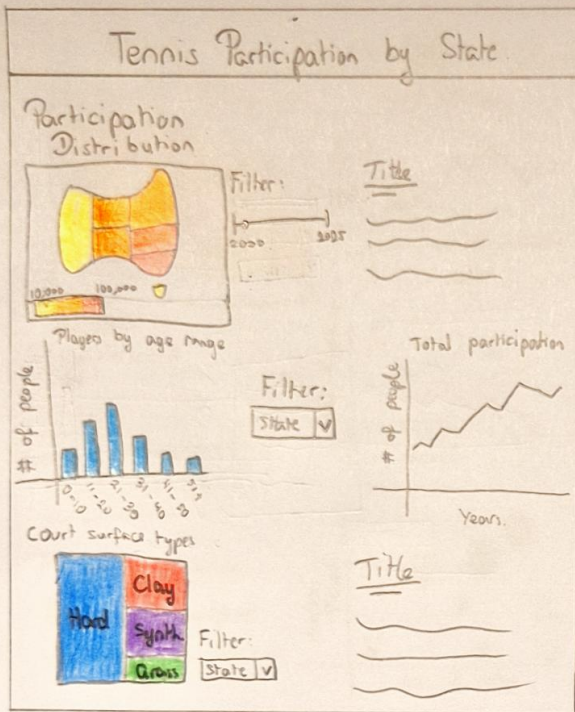Tennis Participation by State

Participation
Distribution

Filter: [2020 —— 2025]

Title
_____
~~~~~~~~~
~~~~~~~~~

10,000   100,000

Players by age range

# of people

Filter: [State ▾]

Total participation

# of people

Years.

Court surface types

Hard | Clay
Synth
Grass

Filter: [State ▾]

Title
_____
~~~~~~~~~
~~~~~~~~~

Parti / Focus

✷ No real focus here, however the
map is kind of independant to the
other three charts, which aim to
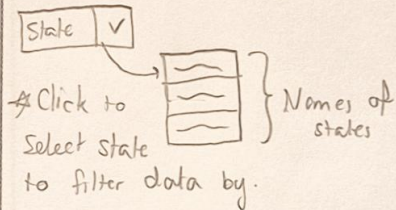show the different stats for the selected
state.

Name
Date

Title State Engagement / Participation

Description

Components / Operations

[state: ~
Participation: ____]

✷ On state click, other states will
be blacked out and will focus
on the selected state.

[State ▾]

✷ Click to
Select state
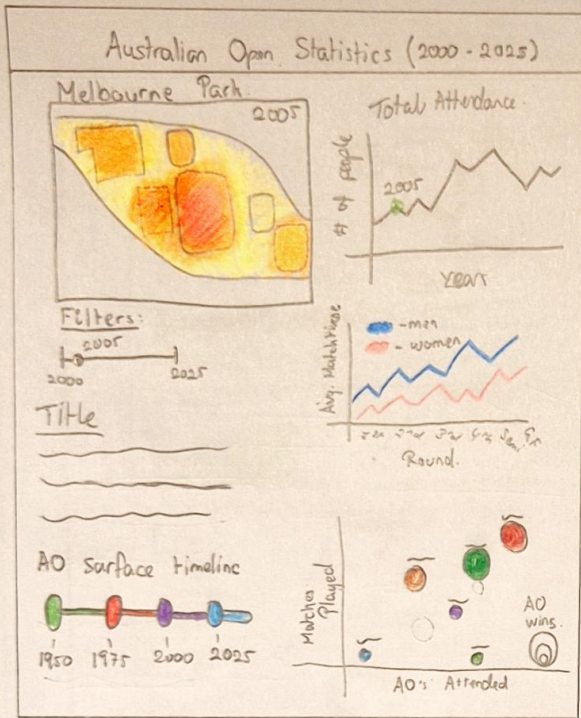to filter data by.

} Names of
  states

Pro & Cons

Pros

✷ Added text beside/near charts
  can add extra clarity to charts.
✷

Cons

✷ May be too few charts.
✷ Multiple 'Filter' dropdowns may
  be too confusing.

Big Picture / Layout

Australian Open Statistics (2000 - 2025)

Melbourne Park   2005

Total Attendance.
# of people — 2005 — year

Filters:
2005
2000 — 2025

Title
_____
_____
_____

Avg. Matches/wins
— men
— women
1st 2nd 3rd 4th 5th 6th
Round.

AO Surface timeline
1950 1975 2000 2025

Matches Played
AO wins.
AO's Attended

Name
Date

Title Australian Open Stats.

Description
_____

Components / Operations

2000 ———————— 2025

※ Time slider to adjust the heat map, and focus an annotation on the total attendance.

Parti / Focus

※ Aims to highlight the growth of Australian open and its players.

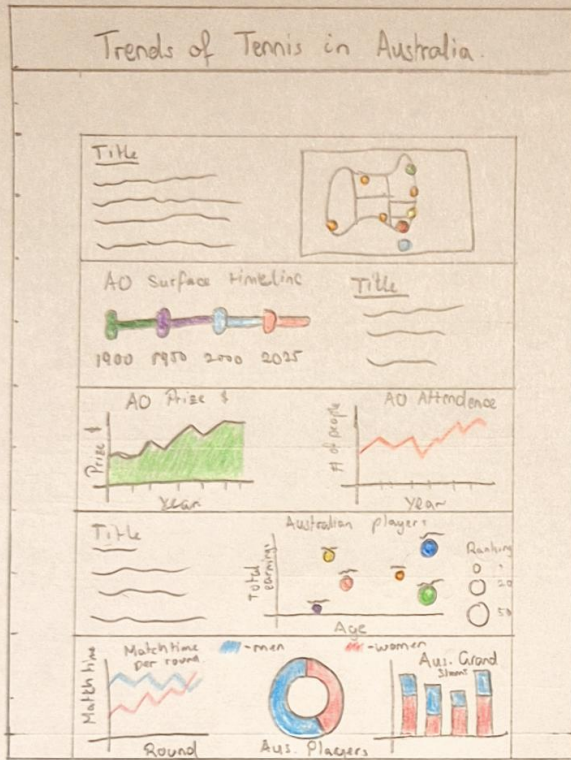※ Heat map aims to show how to concentration of attendees may have shifted as time and Melbourne park has changed.

Pro & Cons

Pros
※ Fewer interactions leading to less confusion.

Cons
※ Heat map of Melbourne Park may be difficult to obtain data for.
※ Two line charts may be a waste of a chart.

Big Picture / Layout

Trends of Tennis in Australia.

Title

AO Surface Timeline   Title
1900 1950 2000 2025

AO Prize $ AO Attendance
Prize $ # of people
Year   Year

Title   Australian players
Total earnings   Age   Ranking 0, 20, 50

Match time   Match time per round   ~men ~women   Aus. Grand Slams
Round   Aus. Players

Parti / Focus

* No main focus as the user will scroll through the visualisation to see each chart.

* First four charts aim to show the growth trends of the sport, while the latter half of the visualisation shows distributions and stats of Australian Players.

Name Brandon
Date
Title Trends of Tennis in Australia.
Description

Components / Operations

Tool tips

* Will present a detailed overview of each data point for each chart.

Text beside charts

* These aim to give further clarity and insight to what is shown in the charts beside it..

Details

Collecting player stats from Tennis Australia Annual Reports, ATP/WTA archives, Australian Open Stats:

→ 2 days for collating and converting to usable csv.

Collecting Venue data such as coords, and surface types from open geospatial databases, Austadiums, Tennis Australia Venue directory:

→ 2 days to create csv.

Coding in vega-lite

→ 1 days for 2 charts (~ 4 days)