Ideas:

Migration by State → Map.

①

⑩ Scatter plot

Line graph
② Migration over time 2013 – 2024 by State

→ state & colour coded

2013-14   2014-15   2015-16   ... 2023-24
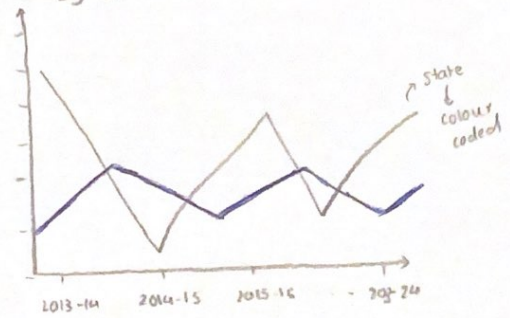
★ Australia's permanent migration by stream   1984 to 2024.

③ Stacked Area chart

→ streams

1984-85   2006-02   2023-24

④ Stacked bar chart

year
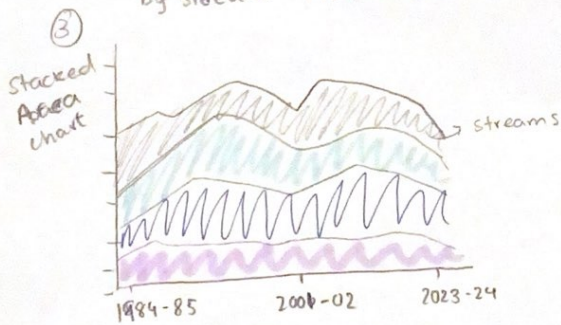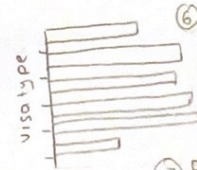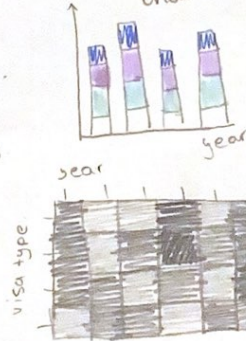
⑥ Horizontal Bar chart
visa type

⑨ Bubble chart

⑦ Pie Chart

⑤ Heat map
visa type / year

5k / 4k / 3k / 0

⑧ Bar chart
Short-term Arrival

State

Filter

Pie Chart ⑦

→ Not relevant to the data

Bubble Chart ⑨

→ Not relevant to the data
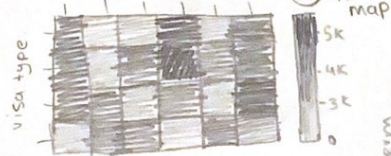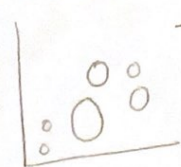
Heat map ⑤
↳ Better alternatives

Categorise:

①, || ③ ② || ④, ⑥ ⑧ ||
⑦ ⑥ || ⑦ ④ || ⑩

Combine & Refine:
② ④ ⑧ ⑥ → could be combined into a single bar chart & line graph into one.

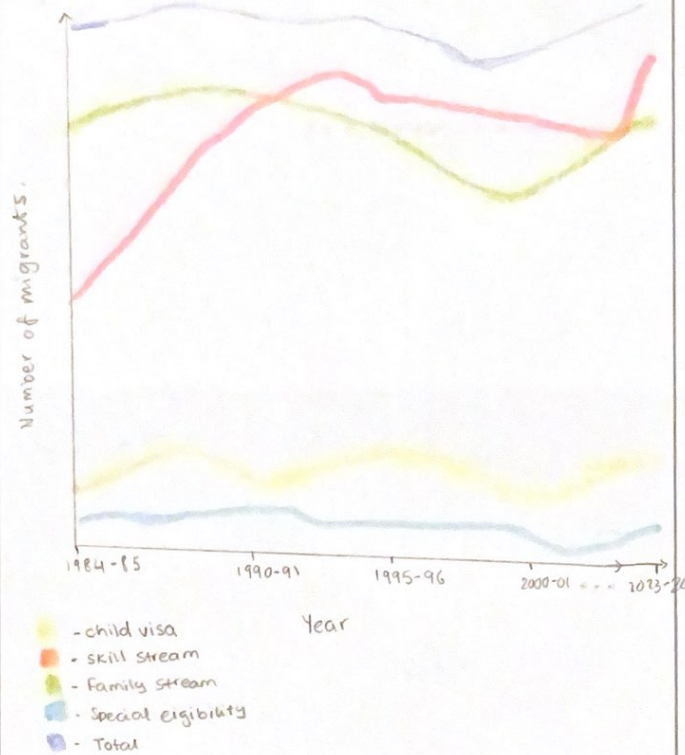③ Have meaningful colours for the area.

④ ⑥ could combine into one

Questions:
1. Is showing the location geographically relevant/important to deliver the data?
2. Does the timeline/year data effectively deliver the patterns?
3. Is it possible filter the data by stream, location?
4. Can we deliver information accurately?

Big Picture / Layout

Australia's migration.

Number of migrants.

1984-85   1990-91   1995-96   2000-01 ··· 2023-24

Year

- ▫ - child visa
- ▪ - skill stream
- ▪ - Family stream
- ▪ - Special eigibility
- ▪ - Total

Parti / Focus

Number of Migrants

Year   2020

Year: ~~~
Stream: ~~~
Count: ~~~

year: ~~~
Stream: ~~~
count: ~~~

→ show this is where borders closed due to COVID so decline in numbers

- ☐ Skill stream
- ☑ family
- ☐ child visa
- ☐ special eligibility
- ☐ Total.
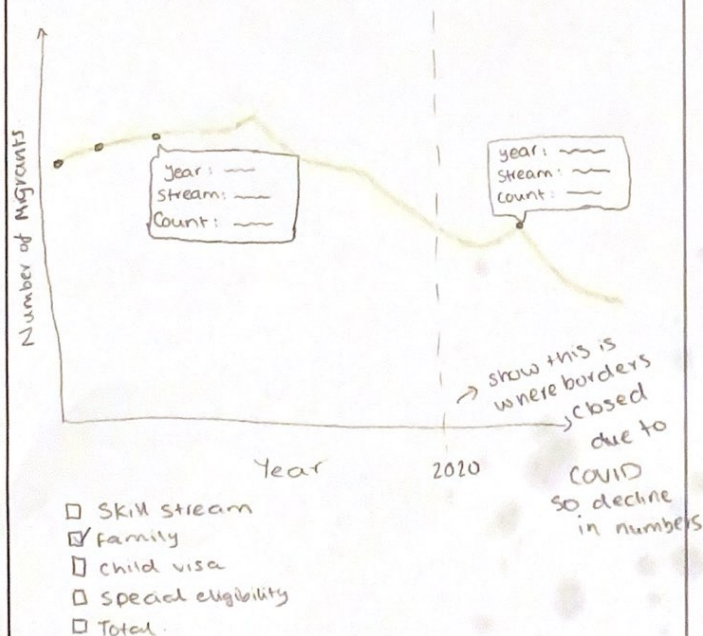

Sheet 0,3,4
Name Sanika Yelane
Date

Title Migration in Australia

Description

Components / Operations

→ Stream filter
   ↳ checkbox

→ Colour coded by stream.

→ a dot at every year to show the value (tooltip).

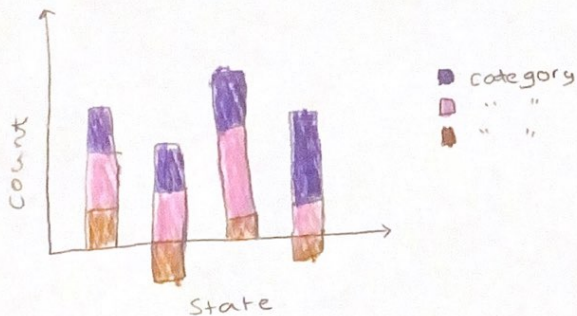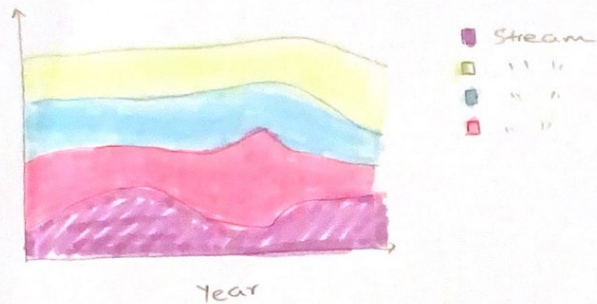**Pro & Cons**

Pros → See trends overtime
   ↳ Can compare streams with each other
   ↳ can compare stream outcome growth overtime.
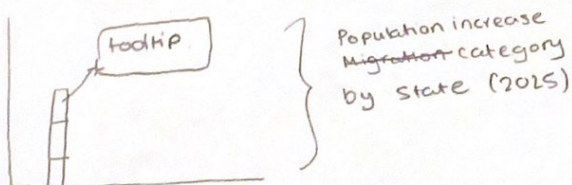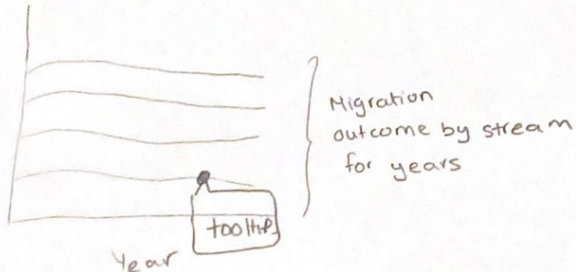   ↳ filter to compare specific streams.

Cons:
   ↳ Hard to see overlapping lines if values are really low

Big Picture / Layout

Year

Legend:
- Stream
- " " "
- " " "
- " " "

Count

State

Legend:
- category
- " " "
- " " "

Title Migration in Australia

Description

___

Components / Operations

↳ when ~~sor~~ user hovers
over a certain point, a
tooltip is shown.

Parti / Focus

Year   tooltip

Migration
outcome by stream
for years

tooltip

Population increase
~~Migration~~ category
by State (2025)

___

Pro & Cons

Pros:
can compare different
categories & streams
to each other.
  → categories: compare
     different states as
     well.
  → streams: compare over
     the years

Cons:
↳ no interactivity other than
tooltips. users cannot
filter.

Big Picture / Layout

Migration Outcome by State.

500K

250K

100K

0

Parti / Focus

Info
about
graph

note: data for
2020-21 is
unavailable

QLD

tooltip
with info

Select Filter:

2019	▽
2023	
2024	
2025	

Name Sanika Yelane
Date

Title Migration in Australia

Description

Components / Operations

↳ Tooltip with relevant information
   Shows when user hovers over
   the state / area.

↳ Filter by year.

↳ Legend shows different
   State's density / outcome

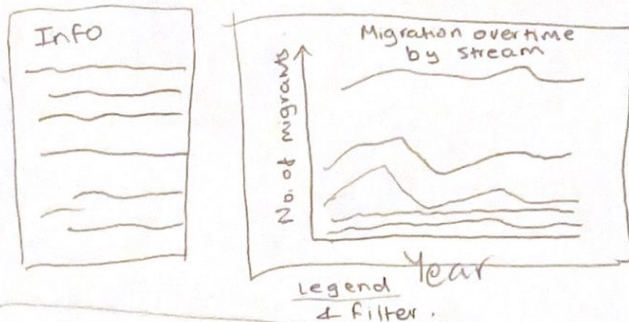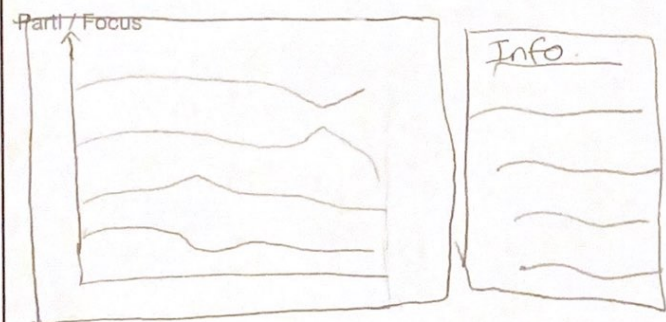### Pro & Cons

Pros:
   ↳ can compare states
      together.
   ↳ filter makes it easy to
      see previous years.

Cons:
   ↳ Cannot compare the migration
      outcomes for different years
      directly.

Big Picture / Layout — Heding / Intro

Info

Select year
2019 ▽

Info

Population (2025) by state & category

□~
□~
□~

States

Partl / Focus

Info

Info

Migration overtime by stream

No. of migrants

Year

Legend & filter.

Footer.

Sheet 5
Name Sonika Yetane
Date
Title Migration in Australia
Description

Components / Operations

⌐ filters

⌐ When users hover over points, tooltips with relevant info.

⌐ legend to help user distinguish between different categories, states & streams.

⌐ Text annotations to help users understand the graphs.

⌐ note about data not being available for map.

Details

⌐ Datasets retrieved from ABS & DOHA
  ⌐ upload to github
⌐ use VS code to code graphs & vegalite.