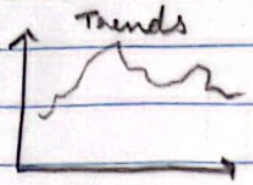
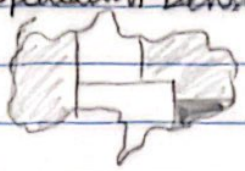
NAME : RHEA DEVASIA
DATE : 16/10/24
SHEET : 1
TOPIC : AUSTRALIAN DEMOGRAPHICS

IDEAS

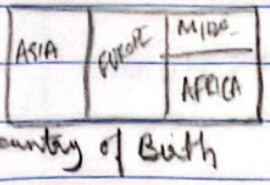
① Trends



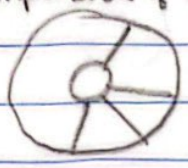
② Choropleth Map of Population Density



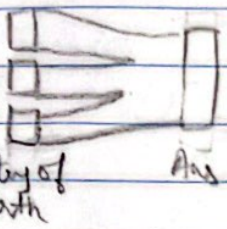
③ Treemap



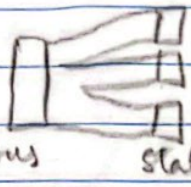
④ Donut Chart Components of Change



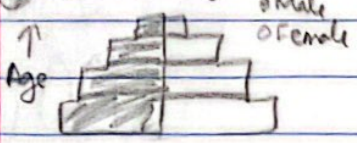
⑤



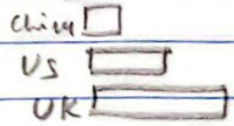
⑥



⑦ Population Pyramid



⑧ Bar Chart - Country of Birth



FILTER

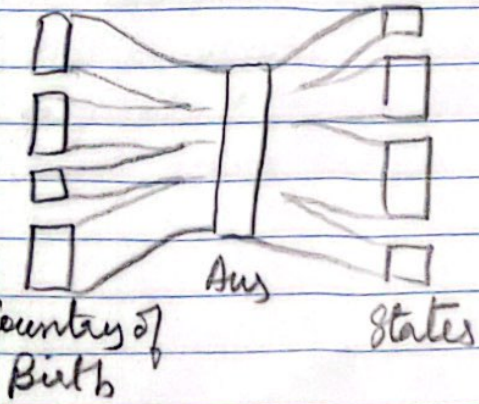
- Charts ③ & ⑤ & ⑧ essentially show the same information but in different formats. Only one of them needs to be used

CATEGORISE

- Trends → ①
- Geographic Distribution → ② ⑥
- Undastaing Growth Factors → ④
- Age/Gender Distribution → ④
- Diversity of Origins → ③ ⑤ ⑧

COMBINE & REFINE

- The Sankey Diagrams in ⑤ & ⑥ could be combined.



QUESTIONS

- How has Australias total Population changed from 2000 to 2023?
- What years saw the most growth/decline?
- How does population density vary across the states?
- What are the main reasons for change?
- What is the age & gender distribution?
- How diverse is Australias Population?

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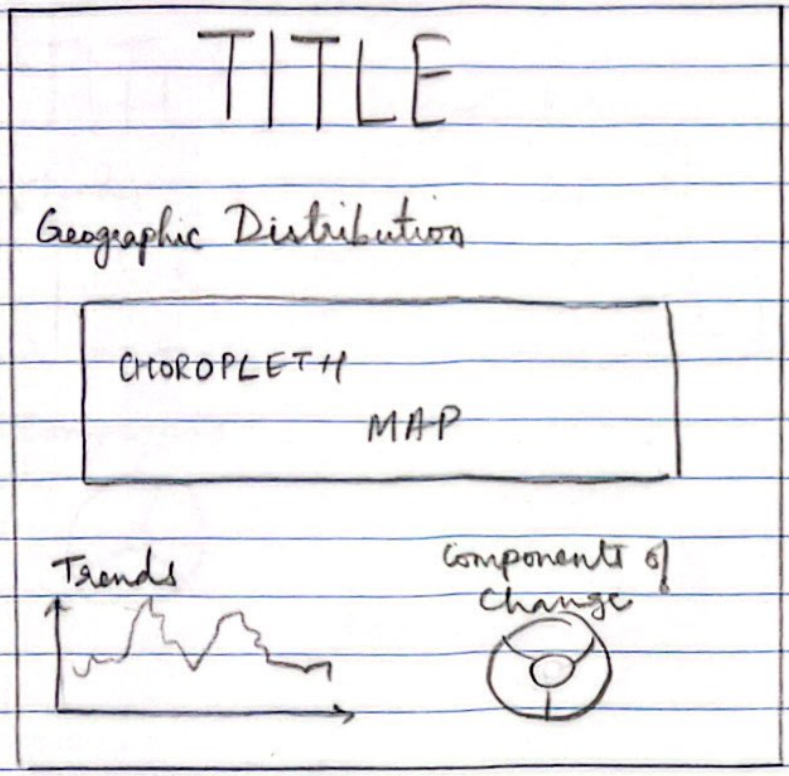
NAME : RHEA DEVASIA
DATE : 16/10/24
SHEET : 2
TITLE : STORYTELLING

LAYOUT



OPERATIONS

- Users can hover over or click on different states in the map to view detailed data or to filter info in the other sections
- Users can view tooltips by hovering

FOCUS

- The main purpose is to provide a multi-faceted overview of Australian Demographics
- The layout combines these components on a single page, using a sequential flow to guide users through the story.
- The choropleth map is the main focus of this visualisation & provides an intuitive geographical representation of population density across Australia.

DISCUSSION

PROS

- a comprehensive view that combines various aspects & provides all the info on one page

CONS

- multiple charts on a single page may cause users to be overwhelmed
- multiple charts can lead to space constraints

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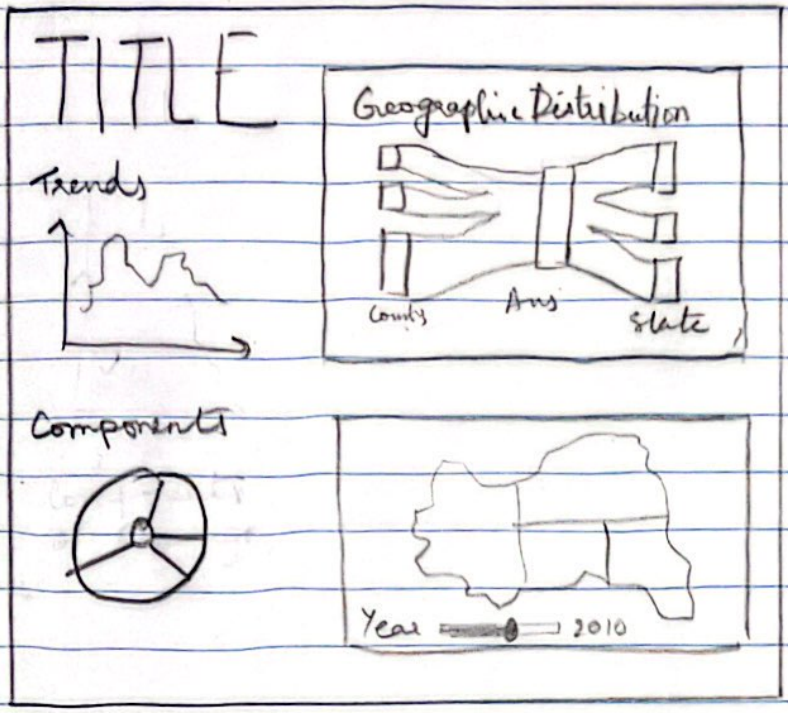
NAME : RHEA DEVASIA
DATE : 16/10/24
SHEET : 3
TITLE : DASHBOARD

LAYOUT



OPERATIONS

- Users can hover over or click on different states of the map to view detailed data or to filter info in the other sections
- Users can view tooltips by hovering
- Users can use the sliders to observe changes over time.

FOCUS

- The main purpose of this visualisation is to provide a comprehensive overview of Australian Demographics
- The layout is designed to facilitate a detailed comparison across multiple dimensions of data
- The Sankey Diagram and the choropleth map are the main focuses of this visualisation.

DISCUSSION

PROS

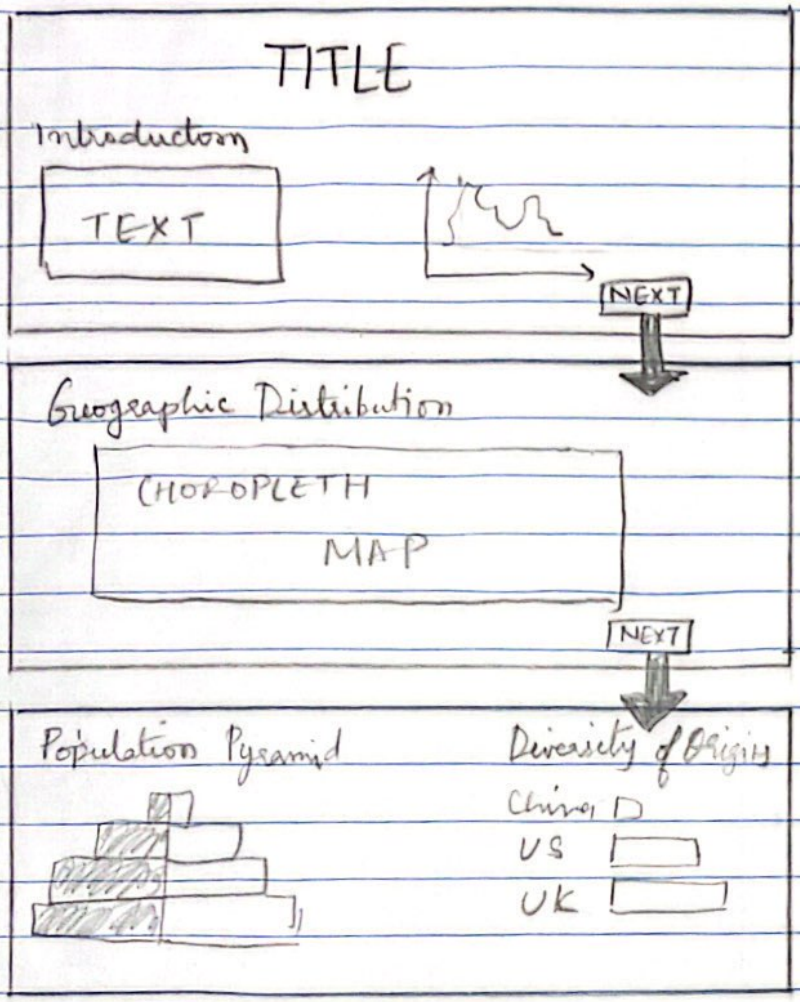
- provides a broad view of data from high level to specific impacts
- allows users to compare various aspects of data effectively

CONS

- might result in a visually cluttered display

NAME : RHEA DEVASIA
DATE : 16/10/24
SHEET : 4
TITLE : NARRATIVE STORYBOARD

LAYOUT



OPERATIONS

- Users can move through the story & navigate through the pages by clicking on 'NEXT' button in the bottom of the page.
- Users can view the tooltips by hovering

FOCUS

- The layout guides the user through a narrative through a series of visualisations that build on each other.
- There is no one chart that is the main focus since each page in the storyboard is a distinct visualisation.

DISCUSSION

PROS

- highly engaging & easy to flow follow
- each section is distinct, ∴ reducing cognitive load

CONS

- users have little control over the flow
- users are unable to simultaneously compare different charts at the same time.

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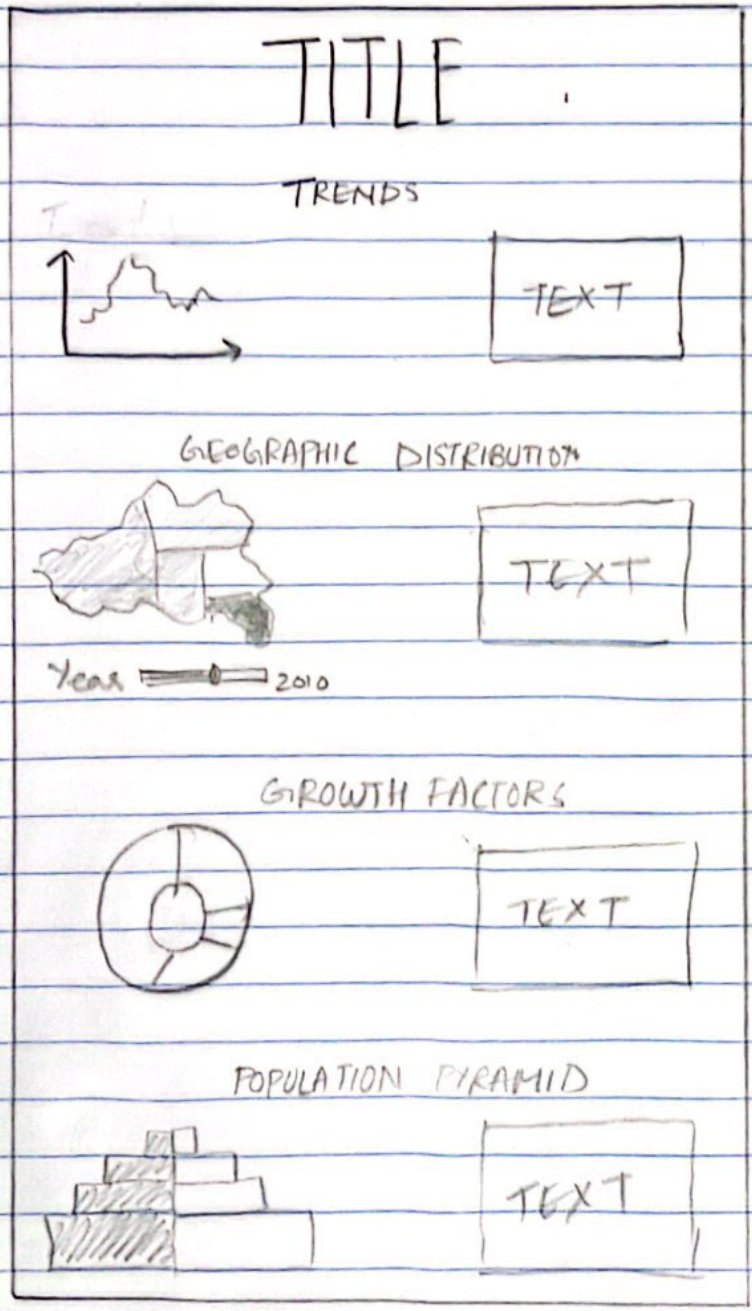
NAME : RHEA DEVASIA
DATE : 16/10/24
SHEET : 5
TITLE : FINAL DESIGN

LAYOUT



OPERATIONS

- Users can view the tooltips by hovering
- Users can use the sliders to observe changes over time for the choropleth map

DETAILS

- Datasets sourced from: Australian Bureau of Statistics
- Build using Vega-Lite
- Estimated Time to Build 2 weeks

FOCUS

- the text next to each chart should contain information about the chart & should explain it to the users
- This layout displays the important aspects of Australian Demographics in a single page using a sequential flow to guide users through the narrative.

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