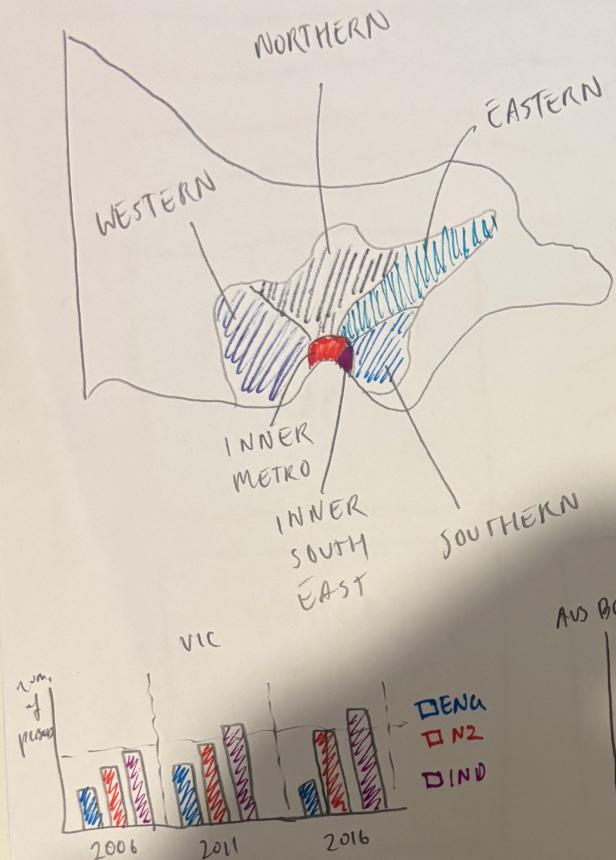
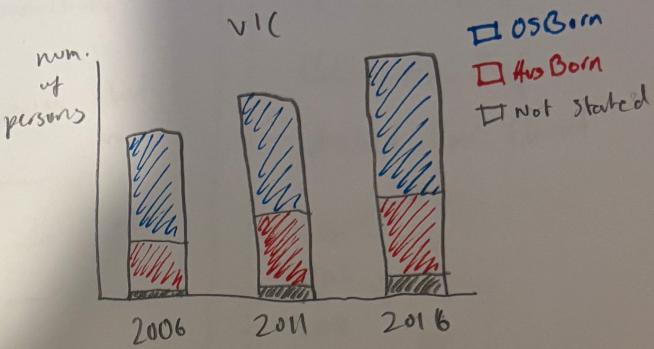


IDEAS



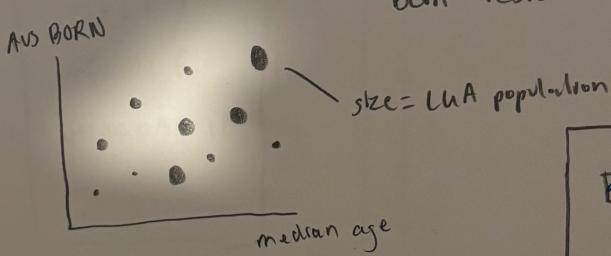
- Chloropleth Graph

1. Population growth by LGA



STACKED BAR CHART

- comparing overseas vs australian born residents in VIC



SCATTER PLOT

- median age vs australian born
- bubble size = LGA population

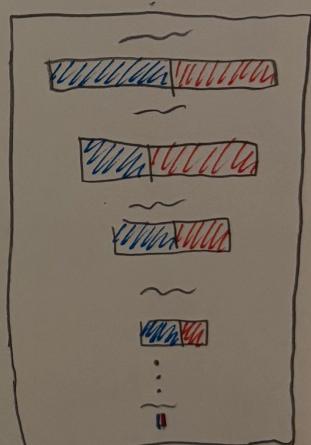
CATEGORISE

- Overview
 - Chloropleth Map
- Detail
 - Scatter Plot
- Composition
 - Stacked Bar
- Context
 - Maybe line chart?

INFOGRAPHIC

- male vs female
- LGA or Region
- Total population

= Bar size



COMBINE/REFINE

- Intro + context
 - Text + Line Chart to Intro population stats
- Chloropleth Map
 - Interactive visual by LGA
- Relationship
 - Scatter + Stacked Bar

FILTER KEEP

- Chloropleth Map (gives a spatial focus)
- Stacked Bar (diversity, clear visual)
- Scatter Plot (relationship)
- Infographic (easy to view and digest)

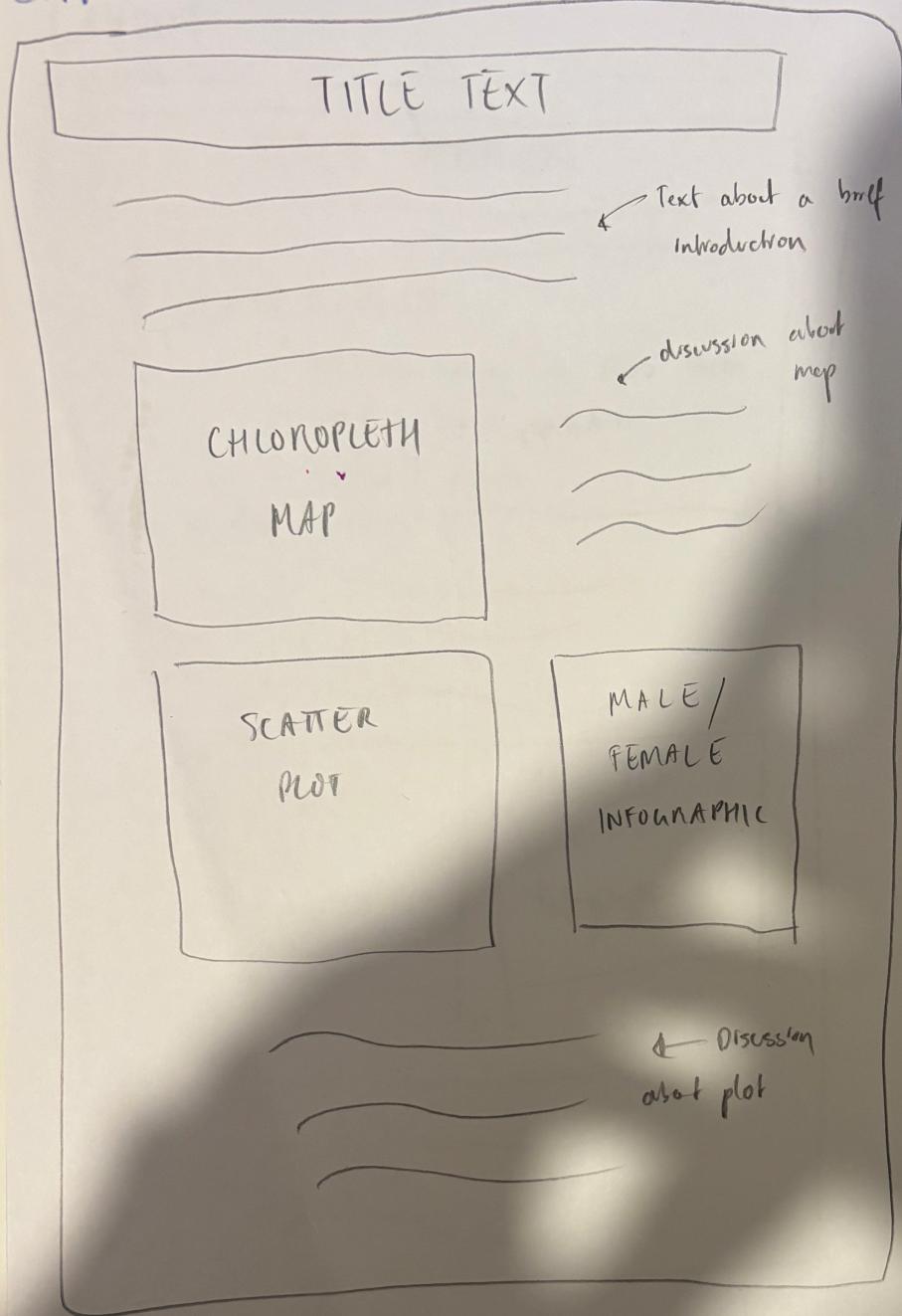
REMOVE

- Faceted Bar Chart (too many small multiples)
- Pie Charts (repitive information)

QUESTIONS

- Correlation - Rapid population vs culture diversification
 - What is the best measure for growth
 - Should diversity be mapped or shown in a chart

LAYOUT



TITLE: Data Visualisation 2

AUTHOR: Harsh Sharma

DATE

JHEET: 2

TASK: SDS

OPERATIONS

- Chloropleth Map
- Stacked Bar Chart
- Hover
 - Map
 - Bar
- Click
 - Map
 - Bar
- Scroll
 - Map
 - Bar

DISCUSSION

Pros

- Strong spatial clarity
- visual appeal
- Easy to interpret

Cons

- Lacking in temporal context
- Map dominates the screen

FOCUS

SPATIAL GROWTH + DIVERSITY LENS

- explore where VIC is growing fastest
- explore who is driving the growth

Focus points

- Hover over map to read detailed LGA stats
- compare patterns between map colour and bar segments

LAYOUT

TITLE BANNER

SCATTER PLOT

- Median Age vs Aus Born
- Size = LGA population
- Colour = Region

Gender Ratio
vs
Median Age

Top 3/5
countries
Infographic

FOCUS

RELATIONSHIP EXPLORATION

- Looking at relationships between age/growth/diversity
- Multivariable comparisons

Interactions

- Scatter plot

↳ e.g. younger demographic → higher growth + diversity

DATA VISUALISATION 2
HARSH SHARMA

SHEET 3
SDS

OPERATIONS

- Scatter Plot
- Facet chart(s)
- Tooltip/Sidebar

↳ for narrative

Hover — Scatter Plot - Dot
↳ Reveal LGA
name + values

Click — Dot
↳ update the charts
as well

DISCUSSION

Pros

- Quantitative Relationships
- More exploratory
- Interactive + Linking

Cons

- More technical
- More text required
- No geography emphasis

Layout

TITLE DANNER

LINE CHART

- Year vs Overseas Born

2011

TOP 5
BIRTH
COUNTRIES

2016

TOP 5
BIRTH
COUNTRIES

CHLOROPLETH MAP

of LGA's

↳ median age

FOCUS

CHANGE NARRATIVE THROUGH TIME/DECades

- Evolution of population/diversity
- Compare trends

TIMELINE + CHANGE

DATA VISUALISATION 2

HARSH SHARMA

SHEET 4

SDS

OPERATIONS

- Line Chart
- Bar Charts x2
- Chloropleth Map
- Hover
 - ↳ Line - Exact %.
 - ↳ Bar - Highlight change
- Click - Toggle? - 2011 v 2016

DISCUSSION

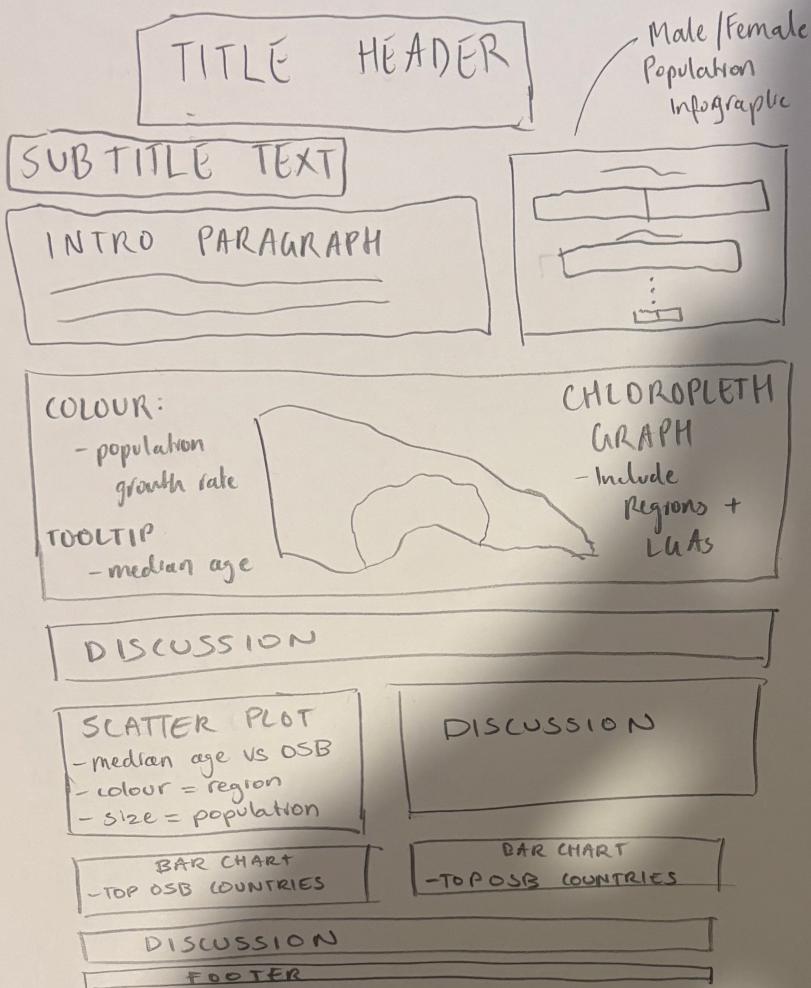
PROs

- Strong storytelling
 - ↳ Temporal
- Local vs National context

CONs

- Less local LGA detail
- Linear compared to more exploratory

LAYOUT



DATA VISUALISATION 2
MARSH SHARMA

SHEET 5
5DS

OPERATIONS

MAP

- hover
 - ↳ population
 - ↳ age
 - ↳ male/female

SCATTER PLOT

- hover
 - ↳ same
- click
 - ↳ filter

BAR CHART

- toggle top X countries

FOCUS

SPATIAL DEMOGRAPHIC NARRATIVE

- visually show VIC's growth + diversity
 - ↳ combine spatial + relational + categorical
- look at map for context — where
 - ↓
- relationship between age and — how
 - ↳ overseas growth
 - ↓
- cultural diversity composition — who

DETAILS

TECH

- VegaLite + HTML + CSS
- + GitHub Pages + GeoJSON

STEPS

- Prepare the data
 - 3 CSV files
- Export 3 CSVs
 - Map + Bar + Scatter
- Implement as JSON
- VegaLite