IDEAS

University enrollments in Aus → A deep dive

Enrolments by type of course
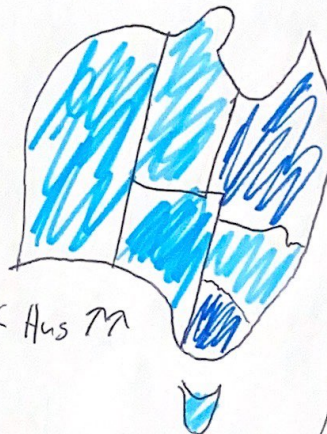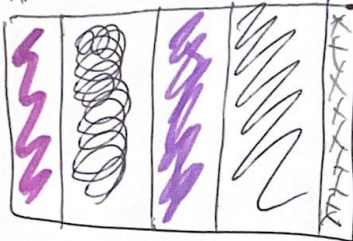

No. of enrolments

Years

o% of course types ↓
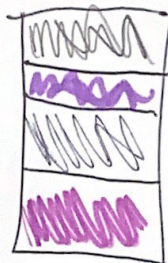
Year ☐☐☐☐

Filterable by years

Mosaic or tree map → width = size

Amount of students in each university

Filter by university

Chloropath map of Aus 🇦🇺

FILTER

Years slider

Year filter →

Year ☐☐☐☐

State VIC

Choose the state

CATEGORISE

| Categorical	Quantitative
• University location	• No. of enrolments
• Type of degree	• %'s
	• State totals

Combine & Refine

Domestic vs International included in the column for each uni with a line cutting it, below domestic above international

International / Domestic
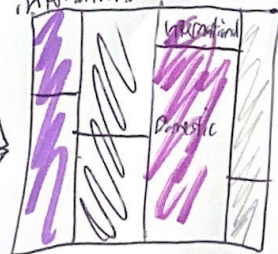
Questions

- How to implement with vega-lite?
- Is the narrative strong?
- Is the map manageable?
- Can I find the required statistics?

LAYOUT

Aus University Enrolments

Course type

Years

Totals per state

Compare of distribution
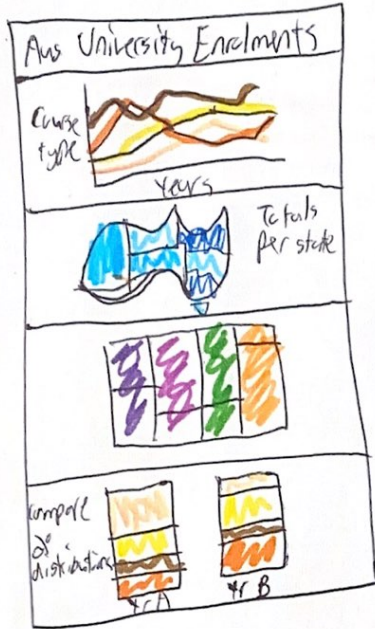
FOCUS

- Time series lines are focused as the introduction
- Title with subtitle to explain what, why aspects
- Chloropath map for a physical visual representation
- Year filters and sliders to allow for analysis of changes over time

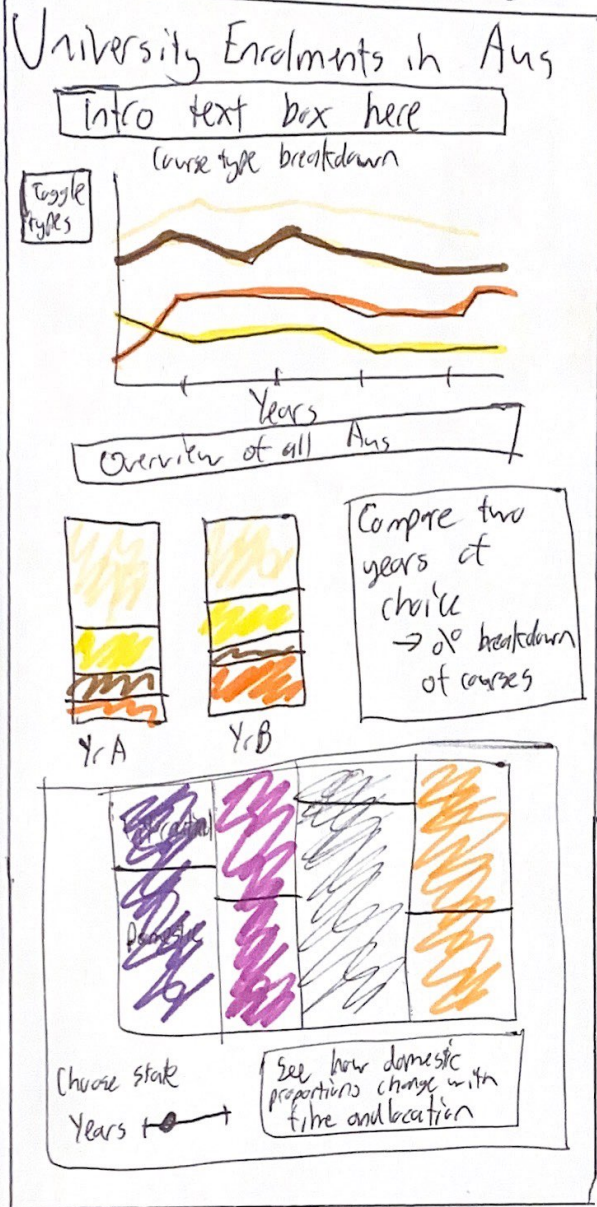Title: Dashboard Draft

Author: Ayden Maron

Date: 19/10/25

Sheet: 2

Task: Analysing University enrolments in Australia

OPERATION

- Ability to filter by year throughout
- Time series line graph filterable by type of course
- Year comparison slider
- Tooltips throughout
- Heatmap select the state to analyse with a filter
  → Also include a legend with different colours per institution

DISCUSSIONS

- Enough user engagement?
- How to add more idioms?
- Reduce whitespace on dashboard

University Enrolments in Aus

Intro text box here

Course type breakdown

Toggle types

Years

Overview of all Aus

Yr A

Yr B

Compare two years at choice
→ % breakdown of courses

Choose stat Years

See how domestic proportions change with time and location

Title: Full Narrative

Author: Ayden Maran

Date: 19/10/25

Sheet: 3

Task: Narrative visualisation for viewer

Operations

- All graphs are interactive
- Sliders for years
- Filters and toggles
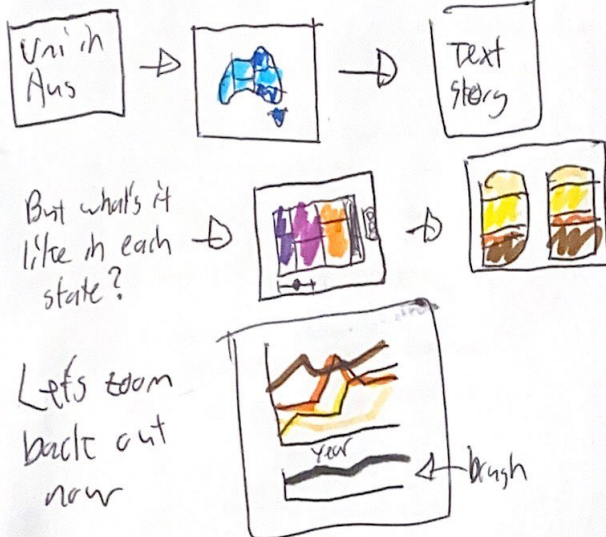
Discussions

- May need additional data
- How to line up the colouring
- Is Vega-Lite powerful enough?
- Can I make it visually pleasing for viewers?

Focus

Develop story further → More charts
Dashboard will be long
Have reduced whitespace

LAYOUT

Unin Aus → [map] → Text Story

But what's it like in each state? → [charts] → [charts]

Let's zoom back out now

[line chart] Year ← brush

FOCUS

- Tried extra emphasis on story telling through text
- Adding more interactivity, with brush
- Improve information included on tooltips
- Bring the time series back to the front, it's a strong graph now with the brush filterability

Title: Narrative #2
Author: Ayden Maron
Date: 19/10/25
Sheet: 4
Task: Create Alternative narrative for the visualisation

OPERATIONS

- Added a brush feature to the time series to allow more interactive and user friendly filtering by gear
- keeping sliders
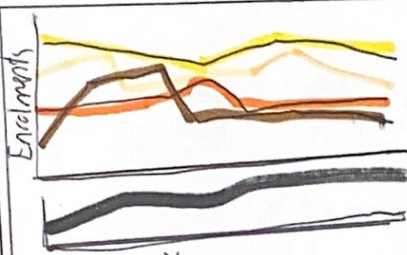- Adding filterable Legend to heatmap

DISCUSSION

- Added extra interactivity, which is a good positive
- Prefer the original Layout for the Narrative
- Still need an extra couple idioms
- Ready to plan final product

LAYOUT

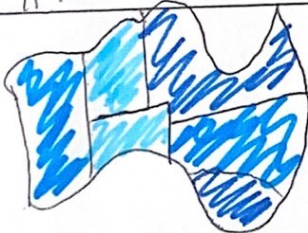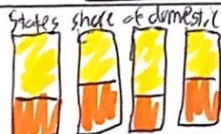Changing Nature of Uni Enrolments

Text intro

Enrolments

Years

Text

Yr A   Yr B

Text box describing comprison

Enrolment Luminne

Text

States share of domestic

Years

Pick state | vic

Text

Institution heatmap

Institution

Select state
Select year

Summary text

Title: Final Design

Author: Ayden Mann

Date: 9/10/25

Sheet: 5

Task: Final Implementation Design

FOCUS

- Complement Chloropath luminance slider
- Add idioms to analyse domestic vs international student composition
- Restrict whitespace
- Cleaned up dashboard

OPERATION

brush implementation

Stacked bar charts with year slider

DETAILS

- Implemented with Vega-Lite
- May need to clean data set
- Time to implement → 1 week
- May need extra research beyond data set