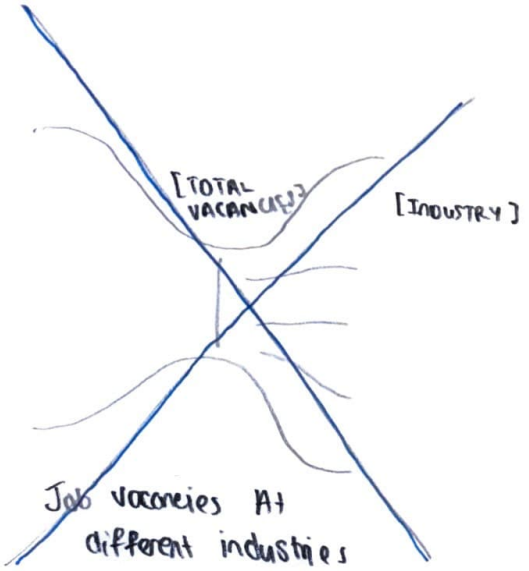
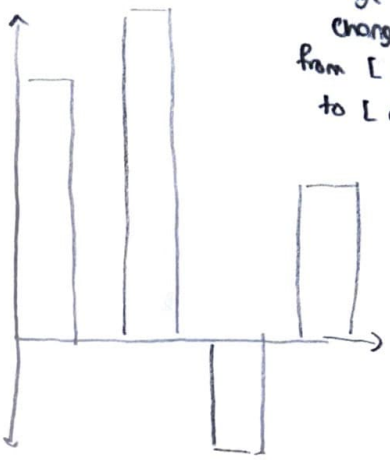
IDEAS [JOB VACANCIES In AUSTRALIA]

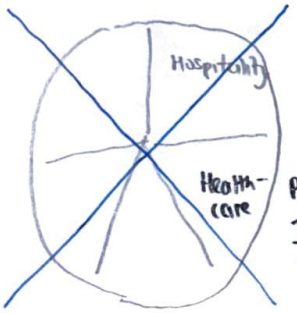


Job vacancies At different industries



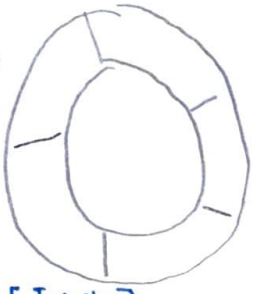
Percentage change from [one period] to [new period]

[State / Industry]



Percentage of Industrial Vacancies in total

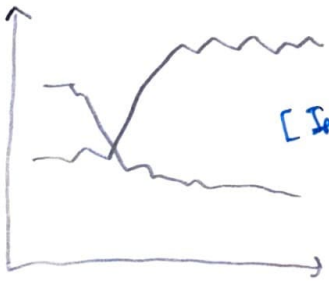
OR



[Industry]

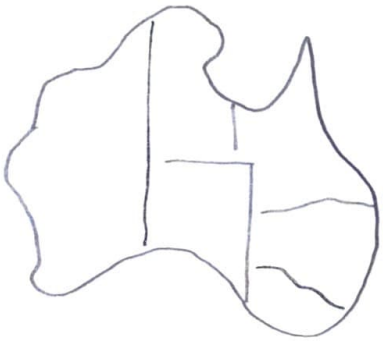
[State / Industry]

Stacked Chart of Job Vacancies per industry



[~~Industry~~] State

Multilined Chart By Industry



[State]

Choropleth map
↳ State Job Vacancies

Filter

- Sankey Diagram may be too complex - depend on whether it can be coded
- Donut preferred for aesthetics, since donut and pie convey the same message
- Stacked Chart will depend on trend and data range

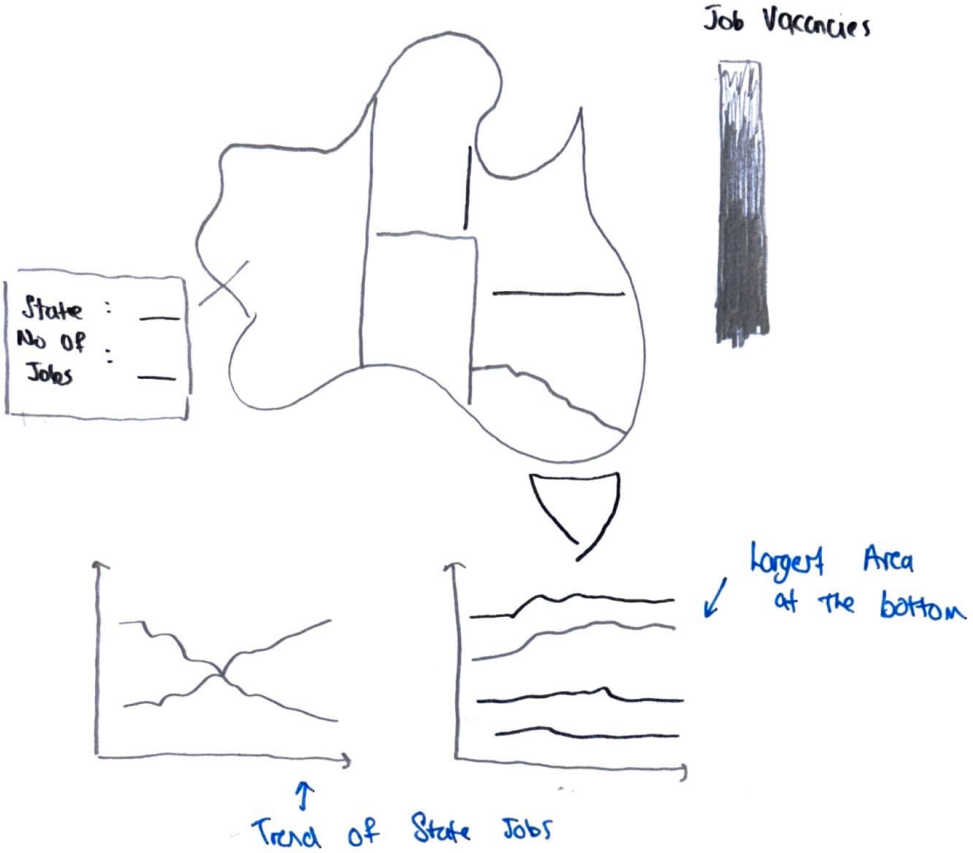
Category (Purpose: To breakdown information for better convey of message of Job vacancies)

↳ **Overview**
- Look at trendline of overall then breakdown

↳ **State**
- Choropleth Map + Stacked Area Chart (?) + Multi-lined Chart
  ↳ All 3 are good to help convey message but need to see data

↳ **Industry**
- Pie Chart, Bar chart, Stack Area Chart (?)

LayOut



Title : Australia's Job Vacancies Per State

Author : Adam Lon

Date : 13/10/2024

Sheet : 2

Details

- Time : 2 weeks to apply design, adjust dataset to ~~the~~ Vegalite, apply hierarchy
- Software : VS code, vegalite, Javascript, JSon, css and html
- Source of Data : Australian Goverment Website

Focus

- Hierarchy : We want the user to start from the top and move their way down to the Trend line chart and then towards the stacked area chart, as naturally we tend to go from top to bottom and from left to right.
- Colour :
  - Colour Saturation on the map to display quantitative data pertaining to different State
  - Matching colour for industries between the line and stacked area, ~~the differentiate between States~~ however, unique colour to differentiate states

Interactiveness

- ~~Tooltip~~ : Use of ~~tool~~ tooltip to display State, No of Jobs and Possibly Date. A slider is provided to display trend depending on date.

Discussion

- The goal of this section is to explain, State-wise, how each state is in terms of job vacancies. The map is enlarged to attract views and the trendline and stacked area chart go more in depth with this goal.
- With the use of size and positioning, the visualization hopes to achieve a form of clear hierarchy.
- To increase engagement, interactiveness is used to display specific periods of time if the viewer so please.

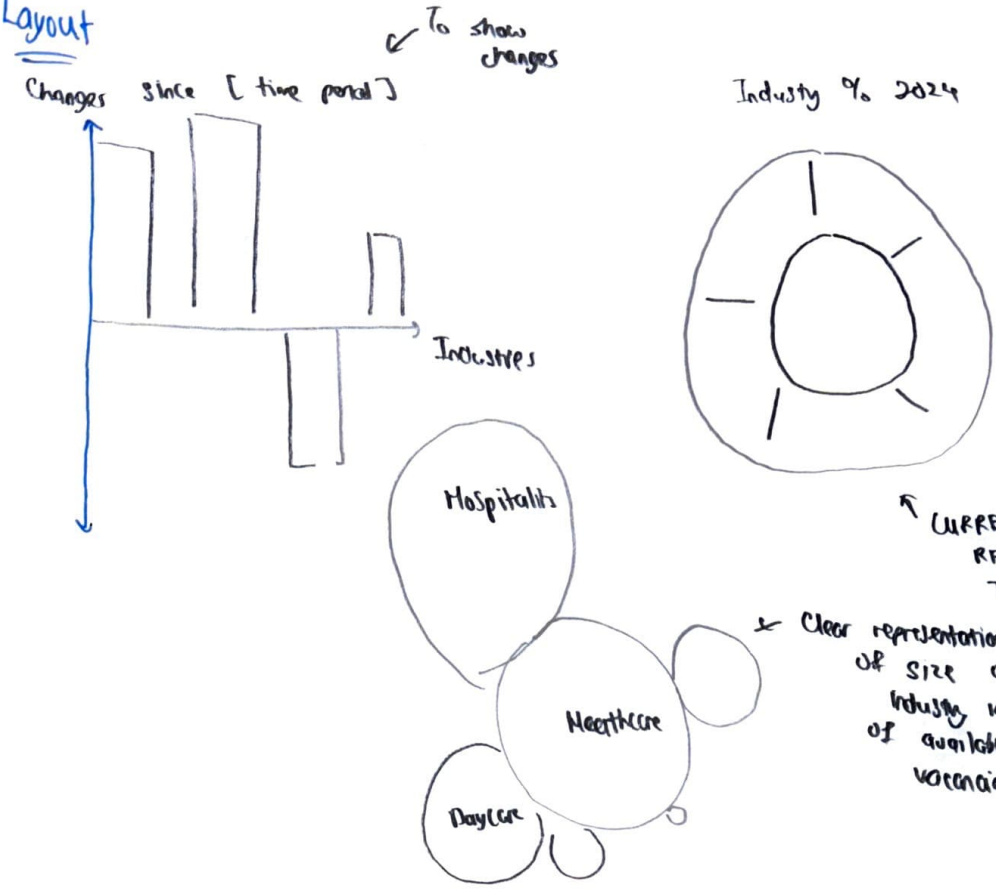
Pros :

- Flows well
- Clear hierachy
- Easy to interpret

Cons :

- Lack of interactiveness
- Stacked area may be inappropriate if no trends come in addition of trendline might be worth only having

Layout



Title: Australia's Job Vacancies for Industry

Author: Adam Loh

Date: 13/10/2024

Sheet: 3

Details

- Time: 2 weeks to apply design, adjust dataset to the vegalite, apply hierachy
- Software: vscode, vegalite, json, css, html, javascript
- Source of data: Australian Government Website

Discussion

- The goal of this section is to give a perspective of which industry has the most job vacancies. In a society where holding down a job is important for our present and future, understanding the availability in different industries is important. It displays to the viewers the prospect of staying in Australia and the employee market.

Focus

- Hierarchy: We want the user to go from the bar chart to the ~~Area~~ Bubble chart to the pie chart. A different approach to the "top to bottom, left to right" approach to give viewers a new perspective. Originally, we wanted equal spacing to allow viewers to go any direction, however, this may be too confusing.
- Colour: Bar chart will have a single colour while the Area chart and donut will have matching colour hue to distinguish industry. ~~s~~ need to ensure they do not clash with state graphs / charts.
- Interactiveness: Legend selection to look at specific industries. Tooltip for more description (Industry, Percentage %)

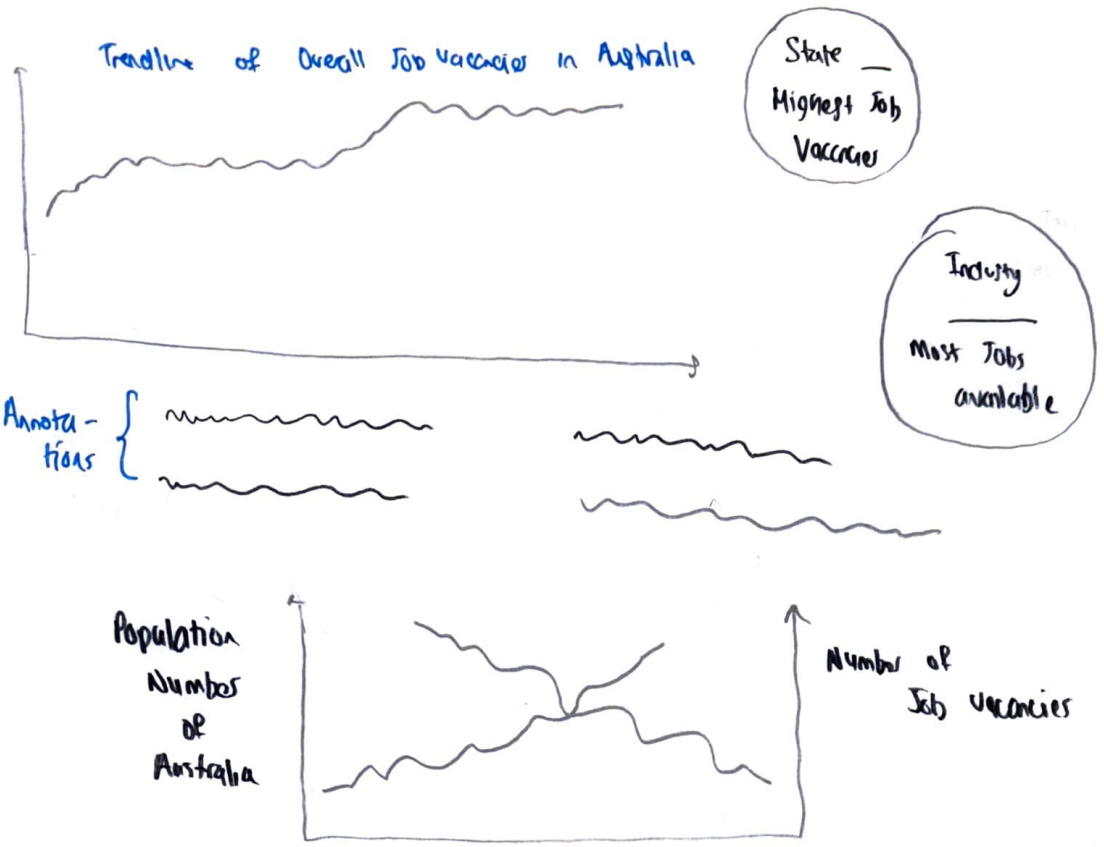
Pro:

- Unique hierarchy
- Easy to understand
- Visually pleasing
- Distinguishable colour coding

Cons:

- Hierarchy has a chance to be difficult to understand
- May be too little interaction.
- Colour coding need to be double checked to ensure no closely related colours are used.

Layout



Title: Overview of Job vacancies in Australia

Author: Adam Loh

Date: 13/10/2024

Sheet: 4

Details

- Time: 2 weeks to apply design, adjust dataset to vegalite, apply hierarchy
- Software: vscode, vegalite, json, css, html, javascript
- Source of Data: Australian Government Website

Focus

- Interactiveness: Not too much interaction here, here gives an overall views and doesn't necessarily need interaction
- Hierarchy: Top to bottom, left to right. We hope to have the viewers go from the trendline to Area chart on the right and then down to ~~area~~ dual-axis chart. Utilize on size, intend to have the line graph very long to lead views to the area chart. Then naturally the ~~viewers~~ will move to the dual-axis.
- Colour: Distinguishable colours for ~~dual~~ dual axis for easy interpretation. Trendline uses a neutral colour for line as colour is not used to convey information. Same approach ~~w~~ of neutral colours for area chart.

Discussion

- The goal of the section is to give the audience an overview of the Australian employee market before diving into the State and ~~industry~~ industry specific. By having this section the viewers can have a clear understanding of the purpose of the visualisation. It is with this section that ~~allows~~ increases the insightfullness of the other sections.

Pros

- Fairly simple to interpret and create
- All charts are relevant in terms of information → ~~each of~~ all charts convey its own unique message which allow for interpretation
- Symmetrical

Cons

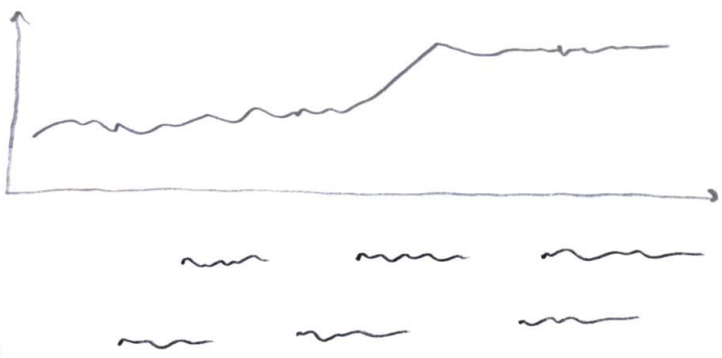
- Disproportional in size, may lead to unnecessary white space
- Lack of interaction
- Area charts may be unnessary, they are not really conveying information through area.

LAYOUT [FINAL]
PROPOSED

AUSTRALIA'S JOB VACANCIES

SHEET 4

TREND OF JOB VACANCIES [Overall]



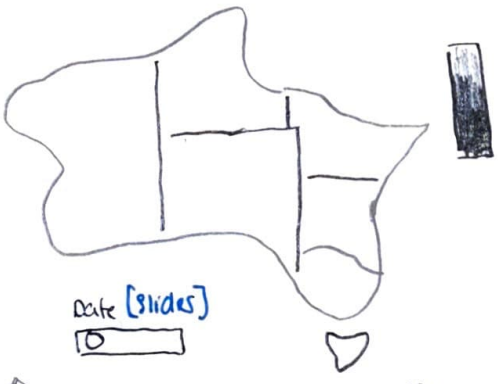
State

Industry

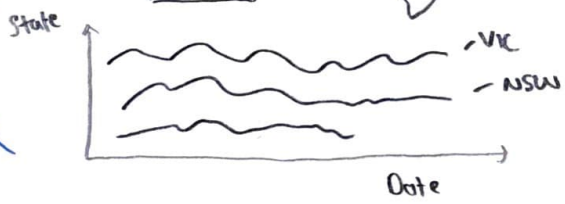
Annotation

SHEET 2

JOB VACANCIES BY STATE



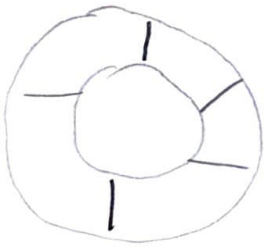
Date [slides]

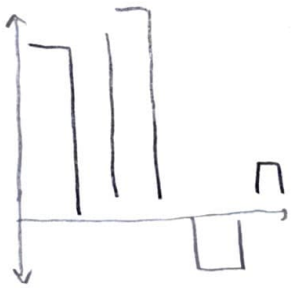


* Annotation / Analysis

SHEET 3

TRACKING JOB VACANCIES BY INDUSTRY





Title: Final Design of Australia Job Vacancies
Author: Adam Loh
Date: 13/10/2024
Sheet: 5

Detail
- Time : 2 weeks to apply design, adjust format in HTML, dataset in vegalite, apply hierarchy.
- Software : HTML, JSON, CSS, vegalite, vscode, javascript

Focus
- ~~Ba~~ Hierachy : Broke the dashboard into 3 sections for each flow from top to bottom. Use of title to break section as well as appropriate white line
- Colour - destinguishable colours for Industry and State. Removal of dashing colour to remove misinterpretation.
- Style - Considering Times New Roman and consisten size; title largest, headers second largest, then analysis smallest
- Idioms - 5 unique idioms to convey different information

Discussion
- Goal of visualisation is to create an easy flowing dashboard meant to convey Australia's ~~the~~ Job Vacancy Trends and to analyse in terms of State and industry.
- Use of colour, visual hierarchy, font size and white space to help make visualisation easy flowing and easy to interpret.

Pros
- Easy Flowing
- Aesthetically Pleasing
- Eye catching
- Adequate Interaction

Cons
- Size need to be adjusted for minimal misuse of white space
- Colour coding need to be done carefully
- More interactiveness always help